

# McFarlane<sup>®</sup>

**McFarlane Aviation Products**  
*FAA-PMA Manufacturer of Quality Aircraft Parts*

## 2015 Catalog



**844-567-5855**

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Baldwin City, Kansas 66006

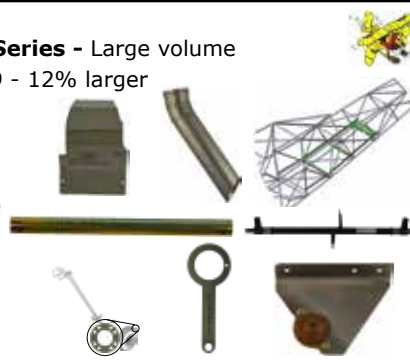
[sales@mcfarlaneaviation.com](mailto:sales@mcfarlaneaviation.com)

[www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com)

**Your Customer Number:**

**New! F Atlee Dodge Expanded Product Line**

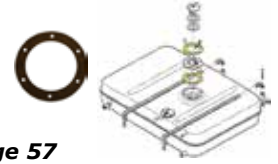
**Weld-In Extended Baggage Kit for PA-18 and PA-19 Series** - Large volume  
**Oversize Rudders and Elevators for PA-12 thru PA-19** - 12% larger  
**For Cessna Aircraft:**  
**Rudder Pedal Bar and Shaft** - 1/2 of Cessna price!  
**Tailpipes** - Heavy Duty  
**Engine Mount Heat Shield** - Stainless steel for longer life  
**Engine Mount Bonding Strap** - 1/3 of Cessna price!  
**Tailpipe Support Assembly** - Heavy Duty  
**Landing Gear Axle Shim** - 1/3 of Cessna price!



**Pages 180-184**

**New! Fuel Filler Neck and Fuel Tank Adapter Gaskets for Cessna Aircraft**

Replace dry, brittle gaskets to prevent water contamination in fuel



**Page 57**

**New! Torque Link Lugs and Safety Plate for Cessna Aircraft**

Often overlooked part is now affordable!



**Page 115**

**New! Knots 2U Expanded Product Line**

Fiberglass replacement parts for Cessna, Cirrus, Piper and Beechcraft aircraft



**Pages 140-165**

**New! CJ Aviation FAA-PMA Fuel Pumps**

Better, Stronger, Direct Replacements



**Pages 61-62**

**New! Fuel Strainer Drain Cables for Cessna Aircraft**

Improved aluminum knob



**Page 47**

**New! Fuel Primer Seal Kit**

Fits most standard primers



**Page 45**

**New! Dual Cowl Flap Controls for Cessna Aircraft**

Superior low friction Teflon lined conduit to reduce wear



**Page 15**

**New! Main and Nose Strut Seal Kits for Beechcraft Aircraft**



**Page 118**

**New! Fuel Strainer Gasket for Cessna Restart Aircraft**

Fuel proof Viton foam!



**Page 47**

**New! Cowl Saver™ Scoring Tool**

Customize Your Baffle Seal Flexibility for Optimal Cooling!  
 You control the amount of flexibility!



**Page 197**

**New! Valve Guide Cleaning Reamers for Lycoming Engines**

Find out why you need these!



**Page 198**

**New! Pin Punch Set with Replaceable Tips**

Stop wasting money on broken punches!



**Page 198**

**New! Adjustable Elevator Neutral Rigging Tool for Cessna Aircraft**

Replaces 17 costly tools!



**Page 197**

**New! Complete Product Line from Airforms, Inc.**



**Oil Cooler Baffle for Cessna 208 Aircraft**  
 Reinforced design for longer life!  
**Page 194**



**Tie Down Trim Plate for Cessna 208 Aircraft**  
 Aluminum for longer life!  
**Page 194**



**New! Curtis High Quality Fuel Valves with replaceable seals**

Low Price!

**Pages 50-51**



**Complete Engine Baffles Kits for Cessna, Piper and Beechcraft Baron Aircraft**  
 Bare aluminum or powder coat finish!  
**Pages 185-193**



**Tail Tie Down Handle, Rear for Cessna 208 aircraft**  
**Page 194**



**Door Latch for Piper Navajo PA-31 Aircraft**  
 Will not deform after extended use!  
**Page 185**



**Cabin Heat Vents for Cessna 208 Aircraft**  
 Reinforced for longer life!  
**Page 194**



**High Strength Parts for Helio H-295 Aircraft**  
 Stronger than original welded assemblies!  
**Page 185**

**Axles for Cessna Aircraft now in Titanium**  
 Reduces weight by 2 lbs!  
**Page 185**



**Nose Gear Torque Link Assemblies for 208 Cessna Aircraft**  
**Page 194**



Axle      Stabilator Bracket





**PROP GUARD  
Anti-Abrasion  
Boots are back!**

**PROP  
GUARD™  
AEROSPACE**

McFarlane now owns the STC and has FAA-PMA approval for this great product that has saved aircraft owners countless dollars in propeller maintenance.

**See page 37 to learn more!**

	<b>Push-Pull Controls and Accessories</b> Pages 8-31
	<b>Firewall Forward</b> Pages 32-44
	<b>Fuel System Parts</b> Pages 45-60
	<b>Parts manufactured by CJ Aviation</b> Pages 61-62
	<b>Instruments, Probes and Leads</b> Pages 63-67
	<b>Flight Control System</b> Pages 68-101
	<b>Flight Control Surface Parts and Attaching Hardware</b> Pages 102-110
	<b>Landing Gear and Nose Wheel Steering Parts</b> Pages 111-118
	<b>Brake and Wheel Parts</b> Pages 119-135
	<b>Seat Rails and Seat Parts</b> Pages 136-142
	<b>Cargo/Seat Track and Hardware</b> Pages 143-144
	<b>Door and Step Parts</b> Pages 145-147
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	<b>Parts Manufactured by F Atlee Dodge</b> Pages 180-184
	<b>Parts manufactured by Airforms</b> Pages 185-194
	<b>Tools and Miscellaneous</b> Pages 195-200
<b>Index</b> Pages 201-203	

**Certified Aerospace Material**

A great deal on small lengths!

Take a look at the "Metal Bundles" category at:  
[www.mcfarlaneaviation.com/products/](http://www.mcfarlaneaviation.com/products/)

**Cowl Saver™  
Baffle Seals  
Now with Bi-Flex™**

*Rolls available individually or in complete kits*

*Complete kits FAA-PMA approved for Cessna 172R and S models*

**New Bi-Flex™ Technology!**  
Precision laser engraved flex pattern ensures optimum flexibility/stiffness combination for maximum cooling and minimum friction.

**See pages 35-36 for more details.**

**F Atlee Dodge Product Line**

Carb Heat Box for PA18 Series - Longer Life

For Cessna Aircraft:

**Boot Cowl Handle** - Larger for bulky gloves!

**Boot Cowl Step** - Larger for hunting and fishing boots!

**Landing Gear Box Shims** - For leaf spring landing gear

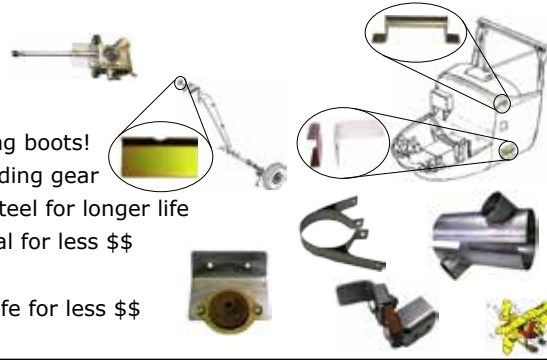
**Heavy Duty Muffler Shroud, LH** - Stainless steel for longer life

**Heavy Duty Tailpipe Clamp** - Heavier material for less \$\$

**Tailpipe Support Assembly** - Heavy Duty

**Tailpipe Hangar Assembly** - Longer service life for less \$\$

Pages 180-184



**Stabilator Cable Kits for Piper Aircraft**

McFarlane has complete stock of FAA-PMA stabilator cables for the Piper aircraft affected by AD 2013-02-13.



Pages 89-93

**Stene Aviation Product Line**

Fiberglass replacement parts for Cessna aircraft



Pages 148-164

**Knots 2U Expanded Product Line**  
Fiberglass replacement parts for Cessna, Piper and Beechcraft aircraft



Pages 148-175

**Premium Engine Monitor Probe Packs from Alcor**



Page 67

**RV Engine Controls**



Page 18

**Fuel Drain Valve for King Air**  
10 Year Warranty!



Page 46

Save!!



**APS BlackSteel® Brake Discs and Linings**

**APS BlackSteel® Brake Discs**  
Improved braking performance

**APS Brake Linings**  
Superior stopping power

Pages 122-132



**Cargo/Seat Track and Hardware**



Pages 143-144

**The SwitchBox**

P/N SBC-1000

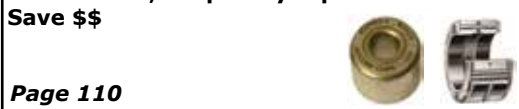
The easiest, safest and most economical way to remotely control your engine preheater!

- Works great with SAFE-HEET!
- Simple to use with a phone call, text, or free iPhone/Android app

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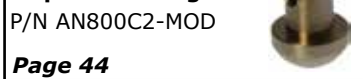


**Hinge and Bellcrank Bearings for Cessna Aircraft**  
Hard to find, frequently replaced!  
Save \$\$



Page 110

**Fuel Injection/ Hydraulic/Oxygen Line Union Cone**  
Improved Design!  
P/N AN800C2-MOD



Page 44

**Fuel Strainer Top Assembly for Cessna Aircraft**  
Direct Replacements!

- Improved corrosion resistance
- Save \$\$

Pages 47-48



**Flap Roller Kits for Cessna Caravan and Skymaster**  
Huge Savings!



Pages 107-108

**Buss Fuses**  
Hard to find  
9/32" OD 4AG/  
AGS/ABS Series  
Glass or ceramic tube



Page 199

**Oil Access Door**  
Now manufactured by McFarlane!



Page 44

**Cabin Entry Step**  
Now manufactured by McFarlane!



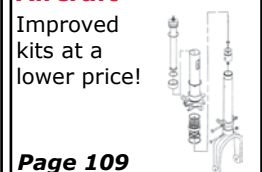
Page 147

**Door Cables**



Pages 145-146

**Nose Strut Seal Kits for Cessna Aircraft**



Improved kits at a lower price!

Page 109

**Cabin Environment and Fuel Shut Off Controls for Cessna Aircraft**



Page 16

**APS Rocker Cover Gaskets**  
Reusable, silicone!



Page 42

**Adel Clamps**

Both standard and high temp versions for the engine area.

Page 44



**Curtis High Quality Fuel and Oil Quick Drain Valves**  
Large Selection, Low Price.



Pages 50-53

**APS Oil Drain-Back Tubes**  
Save up to 50%



Page 43

**Small Radius 1/8" Tube Bender**  
Ideal for fuel injection, primer, oil pressure, and oxygen lines!



Page 196



### Email Newsletter

Stay up to date with the release of new McFarlane products, promotions, and helpful maintenance tips by subscribing to our email newsletter. An email is sent about once a month, and your email address will not be shared or sold to anyone else. To subscribe call 844-567-5855 or visit our website:

<http://www.mcfarlaneaviation.com/signup.html>.

### Carb Heat and Alt Air Controls for Piper Aircraft

- Longer life and save up to \$200.00!
- Special, heavier wire for more fatigue strength and reliability.



Pages 17-18

### Cabin Environment Controls for Piper Aircraft

- Improved friction mechanism
- Anti-rotate feature to reduce stress on the inner wire

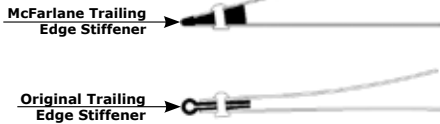


Replacement Knobs!  
Pages 20, 30

Page 19

### Flap Trailing Edge Stiffener for Cessna Aircraft

- New streamline shape and improved fit to reduce stress cracks
- Logbook entry only!

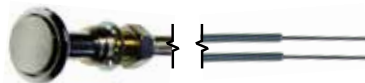


Page 96

### Dual Cowl Flap Controls

Cessna early 180, 180A,B

- Solid wire ends
- Choose a chrome or black knob



Pages 15

### Control Yoke Universal Joint Kits for Piper Aircraft

Helps comply with AD 2010-15-10!

- Kits include u-joint, shaft, taper pin and hardware.
- Individual parts available separately!
- Taper reamer saves you \$100!



Page 98

### Flap, Aileron, Rudder and Elevator Skins for Cessna Aircraft

- Precise corrugation spacing and shape
- Direct replacements!



Page 102

### F Atlee Dodge Product Line

Many new products!

Make your airplane Alaska Bush Tough

- Parts for Piper and Cessna aircraft
- Improved airframe parts
- Improve safety!
- Improve horsepower!



Pages 180-184

### Alternator V-Belt for Piper Aircraft

- High quality
- Direct replacement
- Save \$\$



Page 199

### AERO-Classics High Efficiency Oil Coolers

Highest Quality, Best Value

FAA-PMA direct replacement for Stewart Warner oil coolers at a fraction of the cost.



Pages 39-41

### Vernier-Assist™ Mixture and Throttle Controls

- Light weight and compact behind the dash
- Safer - no vernier threads to jam!
- Patented drive mechanism
- Totally new type of control only from McFarlane!



Page 29

### Aircraft Wheel Balancer

- Fast, accurate, affordable!
- Portable, fits in your toolbox.



Page 196

### U-Joint Taper Pin Removal Tool for Piper Control Yoke

- Makes removal of stuck pins easy.
- Compact to get in tight places



Pages 98

### Seat Roller Housing Gauge for Cessna Aircraft

- Save time! Two times faster than calipers
- Measures all three dimensions



Page 141 and 195

### Seat Adjust Spring for Piper Aircraft

- Direct replacement
- Save \$\$



Page 142

### Rudder and Elevator Hinge Bearing Kits for Cessna Caravan Aircraft

In stock for immediate shipment!

Page 110



### Pratt & Whitney PT6 Engine Parts

In stock, no long lead times!

Page 42



### New! Brake Bleeder Valves for Cleveland and McCauley Wheels

Improved - No more rust

- FAA-PMA direct replacements
- Convenient kits

Page 133-135

Now approved for many STC conversions!



### Nose Gear Torque Link Repair Kits for Piper Aircraft

All commonly replaced torque link parts in convenient kits

Pages 116-117 Kits for Cessna aircraft also available!





## About McFarlane

### Our Mission:

- To anticipate and listen to the needs of the aviation community.*
- To continuously develop innovative solutions and improved aviation products that provide value.*
- To produce and offer safe, quality aviation products that instill pride and confidence in the McFarlane brand.*
- To provide fast delivery, a realistic price, and old-fashioned customer service with customer focused technical support.*
- To provide a challenging, rewarding, safe, and fun place to work.*
- To care for our community and environment.*

McFarlane Aviation Products is a manufacturer of replacement parts for Cessna, Piper, Grumman, Beechcraft and Ag-Cat airplanes, as well as experimental, homebuilt and LSA aircraft. We have over 2500 different FAA-PMA part numbers on the shelf for immediate shipment. Our facility is conveniently located in the center of the United States near Baldwin City, KS on the Vinland Valley Aerodrome (K64). Our growing corporate office and manufacturing facility includes more than 45,000 square feet of office space, inventory storage and factory floor. Our products are not simply duplicates of their OEM counterparts, but are engineered to be superior in quality and have a longer service life. In addition to quality improvements you also get a lower price. In fact, many McFarlane replacement parts sell for up to 60% less than the equivalent aircraft manufacturer's part.

In addition to producing high quality replacement parts, McFarlane distributes a variety of general aviation products and accessories along with other manufacturer's FAA-PMA products. Custom manufactured products and services are also provided with amazingly quick delivery. No matter what you purchase from McFarlane Aviation Products, you can rest assured that you are getting the highest quality product at the lowest price. McFarlane is a family owned business with old fashioned customer service.

## History

The founder, Dave McFarlane, created McFarlane Aviation in 1970. The company provided aircraft repair and restoration part time while Dave concentrated on agricultural aviation activities in Mississippi, Arkansas and Iowa. In 1979 Dave bought the Vinland Valley Aerodrome (K64) and moved the company there, where it is located today. The quaint little country airport is located in Eastern Kansas ten miles southeast of Lawrence, Kansas, the home of The University of Kansas and Haskell Indian Nations University and four miles north of Baldwin City, the home of Baker University. The runway was built in a beautiful valley on the old railroad right-of-way in Vinland, Kansas, a pioneer ghost town. A few old store buildings, two old churches, several houses and the oldest library in Kansas are all that remains of the once thriving frontier settlement. Fred McClenahan joined Dave and his wife Phylis there, and they provided aircraft repair, restoration, rental, flight instruction and agricultural aviation services. Fred plays a key role today in developing and testing the McFarlane product line.

Historic Vinland Kansas



The company prospered and grew and in 1986 it was incorporated as McFarlane Aviation, Inc. As the years went by, it became apparent to Dave and Fred that there was room for improvement in many of the aircraft parts they were installing. In 1989 the company started in a new direction. Improved designs and new materials were developed and tested for the Cessna seat rollers and washers. Aircraft owners accepted them as being far superior to the OEM parts while costing much less. Sales of these first products grew rapidly and customers requested more products. New replacement parts were developed and approved by the FAA while manufacturing equipment, talented people, and quality control systems were added and improved. The manufacturing activity grew rapidly and by 1993 all other operations except for basic airport services were sadly phased out. Since then, the company has focused only on the development, testing, manufacturing, and distribution of quality FAA-PMA products. In 1997 an additional 7,100 square feet of office and manufacturing space was constructed with another 6340 square feet being added between 2003 and 2006. In 2012 the facility was doubled in size by adding another 24,000 square feet of production and warehouse space. Today McFarlane holds design approval and FAA-PMA for over 2100 different replacement parts for several different makes of aircraft. McFarlane distributors are serving major aviation centers around the world.

The experience of the past and constant input from knowledgeable customers have given McFarlane engineers vast knowledge of aircraft service demands that are the foundation of improved products. The pioneering spirit lives on in Vinland, Kansas and McFarlane Aviation Products will continue to develop innovative solutions for aircraft service problems.

## A Letter from the President

While I reflect on the once future years that have now become the present and past, I am reminded of the many contributions that have been made to this company by our employees and the aviation community. I would like to express my sincere appreciation to all of the aircraft owners, commercial operators, repair facilities, FBOs and parts distributors that have supported us over the years. Thank you! You are the reason we can continue to develop improved aircraft parts. Our common goal of reasonably priced replacement parts that work better, safer and last longer is shared by all of us. Without your support we could not survive the tedious and expensive process of product development, testing and FAA certification. Many of you have shared with us your knowledge and insight for new products and improvements that comes from your years of experience in repairing and operating aircraft. Your help has not been forgotten. I would also like to thank the FAA personnel that have worked with us. Many of them have gone the extra mile in supporting our goals. With the help of all of you, McFarlane Aviation Products has become a leader in light aircraft replacement parts innovation. I hope we can repay you by providing you with products and service that meet your expectations. I have not forgotten that this company is also your creation.

Best Regards,  
Dave McFarlane  
President



## What are FAA-PMA Parts?

FAA-PMA stands for Federal Aviation Administration Parts Manufacturer Approval. Federal Aviation Regulations (FAR) Part 21.303(a) requires any person producing modification or replacement parts for sale for installation on a type-certificated aircraft to obtain a PMA. The FAA strictly regulates all PMA holders by initially approving all design data, approving all design changes, and auditing production facilities and quality control systems.

As a result, the parts produced by a PMA holder meet rigorous quality standards just like the replacement parts from the original aircraft manufacturer. At McFarlane Aviation Products, we take great pride in meeting and exceeding the high quality and sound design standards set by the FAA, so that you, our customer can rest assured that the parts you buy are second to none.

## Why Buy FAA-PMA Parts from McFarlane?

At McFarlane Aviation Products, 100% of our effort is focused on replacement parts, not building airplanes. This focus allows McFarlane to produce higher quality parts with many enhancements, all at a lower price than the factory. Each new product we develop is analyzed by looking at decades of service history and maintenance problems. We consider improvements that could not be foreseen when the parts were originally designed. Many times new manufacturing technology or high-tech materials that were not available when the parts were first designed allow us to improve products while at the same time reduce the cost. This translates into a better product for less money.

## Terms and Conditions

Terms and conditions are subject to change without notice. For a complete copy of the terms and conditions please visit our web site [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) and click the link at the bottom of the page.

## Updated Website Coming Soon - Many Customer Requested Enhancements

[www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com)

**Updated look, more product photos, more shipping options, and many other improvements!**

The screenshot shows the McFarlane website interface. At the top, there is a search bar for 'Part Number, OEM Number, Description' and a navigation menu with 'Home', 'Products', 'Reference', 'Distributors', 'Employment', and 'About'. Below the navigation, there are filters for 'Select your Airplane Model' with dropdowns for 'Cessna', '172', and '172N', and a 'Serial Number' field. A 'Submit' button is present. The main content area is titled 'Cables and Chains, Flight Control' and features a section for 'McFarlane Flight Control Cables' with a detailed description and a list of bullet points. A sidebar on the right contains a user account menu with options like 'Addresses', 'Credit Cards', 'Edit Profile', 'Invoice History', 'Change Password', 'Change Username/Email', and 'Logout'. Numbered callouts 1 through 4 highlight specific features: 1 (search), 2 (login), 3 (account management), and 4 (improved search).

- 1 Improved, faster search
- 2 Checkout with or without a login
- 3 Account management
  - update addresses and credit cards
  - change password and email address
  - view invoice history
- 4 Improved search by aircraft
  - option to search by aircraft series
  - save your aircraft make, series, model and S/N between visits
  - refined results differentiate between parts specifically for your aircraft and those that fit a broad range of aircraft (e.g., standard hardware)





### Solid Metal Construction

Our fittings and components are made from anodized aluminum, stainless steel, and brass. All critical swage connections are metal for continued dependability. Our vernier locking devices are precision formed and heat treated in critical wear areas. Precise surface finishes provide a smooth consistent feel and long service life.

### A Superior Conduit System

The McFarlane conduit is made from plated carbon steel wire that has been formed to a "D" shape for increased strength and to give a smooth inside diameter. A virgin Teflon® liner has been inserted into the center of the coil for low friction and high temperature operation. Two different configurations are used to provide good tensile strength. The coil is either over-braided with stainless steel wire, or a double-wound coil is used. Both configurations provide a solid feel under heavy push loads without sacrificing routing flexibility. Finally, a Teflon jacket is extruded over the coil or stainless steel braid for abrasion resistance.

Cheapy controls with poly liners will not tolerate engine temperatures.

### Knobs Make a Difference

Our "pilot friendly" knobs are all compression molded from a cellulose reinforced copolymer melamine-phenol resin. They are hard and stable. Unlike the soft injection molded knobs, they resist scratching and do not deteriorate with age. The McFarlane knobs meet the latest FAR requirements for shape and color.



### Vibration Dampening Features

The McFarlane metal swivel joints have a unique Viton® rubber vibration dampening sleeve with a spring load system that dampens engine induced vibration in the push rod guide tube and metal swivel joint. Molded Viton boots are also used on the push rod guides to seal out contaminants. The Viton rubber withstands the high temperature of the engine environment while resisting degradation from oil and solvents. This system drastically reduces the vibration fretting and wear that leads to premature control failure.

### Special Lubrication

During assembly the McFarlane controls have a special lifetime lubrication applied to critical sliding surfaces. This molybdenum disulfide and Teflon based lubricant with a synthetic grease base has been specially formulated to reduce friction. It also prevents galling and contamination locking of the control components from -70° F to over 1000° F. This lubricant is available only in new McFarlane controls.

### Consistent Quality

The production of McFarlane controls is interrupted many times for inspections during assembly. All of our assembly and critical inspections are performed 100%. Attention is given to every detail at McFarlane. For instance, we verify the torque required to rotate our vernier mechanism on every vernier control sold.

### Tough in any Environment

The McFarlane controls have had an outstanding performance and reliability record in all environments. We have tested our controls in the harshest environments to insure that they will provide long reliable service in the most demanding installations. They work freely at -50°F and have been proven in harsh saltwater environments. Even temperatures approaching the melting point of the steel components can not stop the McFarlane controls from functioning.

- Solid metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit
- Custom controls available

### Time Tested

McFarlane manufactures the best aircraft engine controls. With 20 years of reliable service and thousands of units in airplanes flying on every continent (yes, even Antarctica), McFarlane controls have a proven track record and set the standard for premium controls.

### Recommended Service Life

Due to the criticalness of engine controls and considering their operating environment, the maximum recommended in service time for McFarlane engine controls is equal to the maximum time between engine overhauls as recommended by the engine manufacturer. This recommended service time is in alignment with most aircraft manufacturers' recommendation.

### Custom Controls

Custom engine controls can be manufactured for aircraft not listed in our catalog or on our web site. All McFarlane custom controls are built to customer provided specifications using dimensioned drawings or pattern controls. Custom control design forms are available, or you can send us a pattern. McFarlane custom engine controls duplicate the original customer supplied controls in regard to length, thread size, wear sleeve locations, and travel length. McFarlane custom controls are manufactured to the same standards using the same materials, rigorous testing and inspections as our FAA-PMA products; however, custom controls are not FAA-PMA approved. We cannot provide FAA-PMA approval for custom controls. The user must obtain the proper FAA approvals to use our custom controls. Normally completed within a few days. Affordable pricing.





# Push-Pull Controls and Accessories

## Engine, Cowl Flap & Carb Heat Controls - Cessna



### Throttle, Mixture and Propeller Controls

- Solid metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit



### Carb Heat Controls

Longer life and up to 40% off OEM list price!

- High temperature Teflon lined conduit for reduced vibration wear, longer life and smooth, consistent control
- Cheap controls with poly liners will not tolerate engine temperatures
- Special heavier wire for more fatigue strength and reliability
- Improved friction mechanism
- High quality scratch resistant phenolic knob
- Updated square knob meets the latest FAA standards











*The most often replaced Cessna part just got better and now costs less!*

**McFarlane rod ends and wire clamps sold separately!**

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
		Rod End	Rod End	Rod End or Wire Clamp			Wire Clamp
120	8003 thru 15075	MC0411091-7		MC600-72 <b>4</b>			Control N/A
		MCS1104-3 <b>2</b> Rod End		Wire Clamp N/A			MCS2323-1 Wire Clamp
140 <b>1</b>	8001 thru 11846	MC0411091-7		MC600-72 <b>4</b>			Control N/A
		MCS1104-3 <b>2</b> Rod End		Wire Clamp N/A			MCS2323-1 Wire Clamp
140 <b>1</b> ,140A	11847 thru 15724	MC0411091-7		MC600-72 <b>4</b>			MC0411090-4CH <b>3</b>
		MCS1104-3 <b>2</b> Rod End		Wire Clamp N/A			MCS2323-1 Wire Clamp
150 <b>1</b>	17001 thru 17683	MC0411091-7		MC600-72 <b>4</b>			Control N/A
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
150 <b>1</b>	17684 thru 59018	MC0411091-7		MC600-72 <b>4</b>			MC0713302-5CH <b>3</b>
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
150A,B,C,D,E,F	All	MCS1222-11S		MC600-72 <b>4</b>			MCS1230-2
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
150G	All	MCS1222-14S		MC600-72 <b>4</b>			MCS1230-2
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
150H,J,K,L	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
150M	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
A150K,L	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
A150M	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
F150F	All	MCS1222-11S		Control N/A			MCS1230-2
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
F150G	All	MCS1222-14S		MC600-72 <b>4</b>			MCS1230-2
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
F150H,J,K,L	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
F150M	All	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
FA150K,L <b>1</b>	FA1500001 thru FA1500120	MCC299505-0202S		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
FA150L <b>1</b>	FA1500121 thru FA1500261	MCC299505-0202S		Control N/A			Control N/A
		MCS1104-3 Rod End		MCS2323-6 Wire Clamp			MCS2323-1 Wire Clamp
FA150M	FA1500262 thru FA1500336	MCC299505-0202S		Control N/A			Control N/A
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
FRA150L,M <b>1</b>	FRA1500121 thru FRA1500311	MCC299505-0202S		Control N/A			MCS1230-19
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
FRA150M <b>1</b>	FRA1500312 thru FRA1500336	Control N/A		Control N/A			MCS1230-19
		MCS1104-3 Rod End		MCS2323-12 Wire Clamp			MCS2323-1 Wire Clamp
152 <b>1</b>	15279406 thru 15282031	MC9863053-20		MC600-72 <b>4</b>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp

**1** Partial model eligibility. **2** If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit.  
**3** Eligible for use as a carburetor heat control only.  
**4** Part number MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337) and may require enlarging the instrument panel mounting hole to 3/4" diameter.

**Eligibility continued on next page.**

Model	Serial Number						
		Rod End 	Rod End 	Rod End or Wire Clamp 			Wire Clamp 
152 <sup>1</sup>	15282032 thru 15285939	MC9863056-1		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
152 <sup>1</sup>	15285940 thru 15286033	MC9863056-1		MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
A152 <sup>1</sup>	A1520735 thru A1520808	MC9863053-20		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
A152 <sup>1</sup>	A1520809 thru A1521049	MC9863056-1		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
F152 <sup>1</sup>	F15201429 thru F15201528	MC9863053-20		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
F152 <sup>1</sup>	F15201529 thru F15201952	MC9863056-1		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
F152 <sup>1</sup>	F15201953 thru F15201980	MC9863056-1		MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
FA152 <sup>1</sup>	FA1520337 thru FA1520347	MC9863053-20		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
FA152 <sup>1</sup>	FA1520348 thru FA1520387	MC9863056-1		MC600-72 <sup>4</sup>			MCS1230-19
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
FA152 <sup>1</sup>	FA1520388 thru FA1520425	MC9863056-1		MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
170	All	MC0411091-2		MC600-72 <sup>4</sup>			MC0411090-4CH <sup>3</sup>
		Rod End N/A		MCS2323-2 Wire Clamp			MCS2323-1 Wire Clamp
170A	All	MC0411091-2		MC600-72 <sup>4</sup>			MC0411090-4CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		MCS2323-2 Wire Clamp			MCS2323-1 Wire Clamp
170B <sup>1</sup>	20267 thru 25372	MC0411091-2		MC600-72 <sup>4</sup>			MC0411090-4CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		Wire Clamp N/A			MCS2323-1 Wire Clamp
170B <sup>1</sup>	25373 thru 27169	MCS1222-2S <sup>5</sup>		MC600-72 <sup>4</sup>			MC0411090-22CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		Wire Clamp N/A			MCS2323-1 Wire Clamp
172 <sup>1</sup>	28000 thru 36965	MCS1222-2S		MC600-72 <sup>4</sup>			MC0411090-22CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		MCS2323-2 Wire Clamp			MCS2323-1 Wire Clamp
172 <sup>1</sup>	36966 thru 46754	MCS1222-2S		MC600-72 <sup>4</sup>			MC0713302-5CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		MCS2323-2 Wire Clamp			MCS2323-1 Wire Clamp
172A	All	MCS1222-2S		MC600-72 <sup>4</sup>			MC0713302-5CH <sup>3</sup>
		MCS1104-3 <sup>2</sup> Rod End		MCS2323-2 Wire Clamp			MCS2323-1 Wire Clamp
172B,C	All	MCS1222-2S		MC600-72 <sup>4</sup>			MCS1224-4
		MCS1104-3 <sup>2</sup> Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
172D	All	MCS1222-2S		MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
172E,F	All	MCS1222-15S		MC600-72 <sup>4</sup>			MCS1224-4
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
172G,H	All	MCS1222-15S		MC600-72 <sup>4</sup>			MCS1230-7
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
172I,K,L,M <sup>1</sup>	17256513 thru 17263458	MCC299505-0102		MC600-72 <sup>4</sup>			MCS1230-17
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
172M <sup>1</sup>	17263459 thru 17267584	MCC299505-0102		MC600-72 <sup>4</sup>			MCS1230-17
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
172N <sup>1</sup>	17267585 thru 17271034	MC9863053-15		MC600-72 <sup>4</sup>			MCS1230-17
		MCS1104-3 Rod End		MCS2323-4 Wire Clamp			MCS2323-5 Wire Clamp
172N <sup>1</sup>	17271035 thru 17274009	MC9863056-3		MC600-72 <sup>4</sup>			MCS1230-17
		MCS1104-3 Rod End		MCS2323-4 Wire Clamp			MCS2323-5 Wire Clamp
172P	17274010 thru 17276654	MC9863056-3		MC600-72 <sup>4</sup>			MCS1230-17
		MCS1104-3 Rod End		MCS2323-13 Wire Clamp			MCS2323-5 Wire Clamp
172Q	All	MC9863056-3		MC600-72 <sup>4</sup>			MCS1241-49
		MCS1104-3 Rod End		MCS2323-4 Wire Clamp			MCS2323-5 Wire Clamp
172R,S	All	MC565-549-021		MC565-548-041			
		MCS1104-3 Rod End		MCS1104-3 Rod End			
172RG	All	MC9863056-8	MC345-085-9	MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS2323-11 Wire Clamp			MCS2323-7 Wire Clamp
F172D	All	MCS1222-2S		MC600-72 <sup>4</sup>			Control N/A
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
F172E,F	All	MCS1222-15S		MC600-72 <sup>4</sup>			MCS1224-4
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp
F172G,H <sup>1</sup>	F172-0180 thru F172-0559	MCS1222-15S		MC600-72 <sup>4</sup>			MCS1230-7
		MCS1104-3 Rod End		MCS2323-2 Wire Clamp			MCS2323-5 Wire Clamp

<sup>1</sup> Partial model eligibility.  
<sup>2</sup> If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit.  
<sup>3</sup> Eligible for use as a carburetor heat control only.  
<sup>4</sup> Part number MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337) and may require enlarging the instrument panel mounting hole to 3/4" diameter.  
<sup>5</sup> The original Cessna adapter P/N 0513004-16 must be used to angle the control and avoid interference behind the instrument panel.











Eligibility continued on next page.



# Push-Pull Controls and Accessories

## Engine, Cowl Flap & Carb Heat Controls - Cessna



		 Throttle Control	 Propeller Control	 Mixture Control	 Cowl Flap Left Hand	 Cowl Flap Right Hand	 Carb Heat Control
Model	Serial Number	 Rod End	 Rod End	 Rod End or Wire Clamp			 Wire Clamp
F172H <sup>1</sup> ,K	F172-0560 thru F17200804	MCC299505-0203S MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-2 Wire Clamp			MCS1230-7 MCS2323-5 Wire Clamp
F172L,M <sup>1</sup>	F17200805 thru F17201034	MCC299505-0203S MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-2 Wire Clamp			MCS1230-7 Wire Clamp N/A
F172M <sup>1</sup>	F17201035 thru F17201234	MCC299505-0102 MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-2 Wire Clamp			
F172M <sup>1</sup>	F17201235 thru F17201514	MCC299505-0102 MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-13 Wire Clamp			MCS1230-7 MCS2323-5 Wire Clamp
F172N <sup>1</sup>	F17201515 thru F17201749	MC9863053-15 MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MCS1230-7 MCS2323-5 Wire Clamp
F172N <sup>1</sup>	F17201750 thru F17202039	MC9863056-3 MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MCS1230-7 MCS2323-5 Wire Clamp
F172P	F17202040 thru F17202254	MC9863056-3 MCS1104-3 Rod End		MC600-72 <sup>5</sup> MCS2323-13 Wire Clamp			MCS1230-7 MCS2323-5 Wire Clamp
FP172	All	MCS1222-4 MCS1106-4 Rod End	MCC299506-0105 MCS1104-3 Rod End	Control N/A MCS2323-4 Wire Clamp			Control N/A MCS2323-5 Wire Clamp
FR172E	All	Control N/A MCS1104-3 Rod End	MCS1223-17 MCS1104-3 Rod End	Control N/A MCS1104-3 Rod End			
FR172F,G,H,J <sup>1</sup>	FR17200061 thru FR17200530	MCC299505-0204S MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	Control N/A MCS1104-3 Rod End			
FR172J <sup>1</sup>	FR17200531 thru FR17200590	MCC299505-0204S MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	MC9862066-6 MCS1104-3 Rod End			
FR172K <sup>4</sup>	FR17200591 thru FR17200630	MC9863053-10 MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	MC9862066-6 MCS1104-3 Rod End	MCS1391-26 (one per aircraft)		
FR172K <sup>1</sup>	FR17200631 thru FR17200675	MC9863055-10 MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	MC9862066-6 MCS1104-3 Rod End	MCS1391-26 (one per aircraft)		
P172D	All	MCS1222-4 MCS1106-4 Rod End	MCC299506-0105 MCS1104-3 Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MCS1224-4 MCS2323-5 Wire Clamp
R172K <sup>1,4</sup>	R1722000 thru R1722929	MC9863053-10 MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	MC9862066-6 MCS1104-3 Rod End	MCS1391-26 (one per aircraft)		
R172K <sup>1</sup>	R1722930 thru R1723454	MC9863055-10 MCS1104-3 Rod End	MCC299506B0104 MCS1104-3 Rod End	MC9862066-6 MCS1104-3 Rod End	MCS1391-26 (one per aircraft)		
175 <sup>1</sup>	55001 thru 55703	MC0411091-27 MCS1106-4 Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MC0411090-22CH <sup>3</sup> MCS2323-5 Wire Clamp
175 <sup>1</sup>	55704 thru 56238	MC0411091-30 MCS1106-4 Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MC0713302-5CH <sup>3</sup> MCS2323-5 Wire Clamp
175A	All	MCS1222-4 MCS1106-4 Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MC0713302-5CH <sup>3</sup> MCS2323-5 Wire Clamp
175B,C	All	MCS1222-4 MCS1106-4 Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MCS1224-4 MCS2323-5 Wire Clamp
177	All	MCS1222-19 MCS1104-3 Rod End	Control N/A MCS1104-3 Rod End	MC600-72 <sup>5</sup> MCS2323-2 Wire Clamp			MCS1788-2 Wire Clamp N/A
177A	All	MCC299505-0301 MCS1104-3 Rod End	Control N/A MCS1104-3 Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp			MCS1230-19 MCS2323-5 Wire Clamp
177B <sup>1</sup>	17701371 thru 17702539	MCC299505-0301 MCS1104-3 Rod End	MCC299506-0105 MCS1104-3 Rod End	MC600-72 <sup>5</sup> MCS2323-4 Wire Clamp	MCS1391-25	MCS1391-26	MCS1230-19 MCS2323-5 Wire Clamp
177B <sup>1</sup>	17702540 thru 17702752	MC565-549-013 MCS1104-3 Rod End	MC345-085-4 MCS1104-3 Rod End	MC600-72 <sup>5</sup> Wire Clamp N/A	MCS1391-25	MCS1391-26	MCS1230-19 MCS2323-5 Wire Clamp
177RG <sup>1</sup>	177RG0001 thru 177RG1051	MCC299505-0401 MCS1104-3 Rod End	MCC299506-0105 MCS1104-3 Rod End	MCC299507-0102 MCS1104-3 Rod End	MCS1391-27	MCS1391-27	
177RG <sup>1</sup>	177RG1052 thru 177RG1366	Control N/A MCS1104-3 Rod End	MC345-085-4 MCS1104-3 Rod End	Control N/A MCS1104-3 Rod End	MCS1391-27	MCS1391-27	
F177RG <sup>1</sup>	F177RG0001 thru F177RG0160	MCC299505-0401 MCS1104-3 Rod End	MCC299506-0105 MCS1104-3 Rod End	MCC299507-0102 MCS1104-3 Rod End			
F177RG <sup>1</sup>	F177RG0161 thru F177RG0177		MC345-085-4 Rod End N/A				

- <sup>1</sup> Partial model eligibility.
- <sup>2</sup> If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit.
- <sup>3</sup> Eligible for use as a carburetor heat control only.
- <sup>4</sup> S/Ns FR17200591 thru FR17200620 and R1722000 thru R1722880 prop control is only eligible for installation if aircraft has been modified as per Cessna Service Letter 78-51.
- <sup>5</sup> Part number MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337) and may require enlarging the instrument panel mounting hole to 3/4" diameter.

Eligibility continued on next page.

## MC600 Series Solid Wire Vernier Mixture Controls







**Precise vernier control for less money!**

- FAA-PMA approved for many Cessna, Piper, Beechcraft, Mooney, Maule & Stinson aircraft.
- Teflon lined conduit for smooth, consistent operation



# Push-Pull Controls and Accessories

## Engine, Cowl Flap & Carb Heat Controls - Cessna

							
<b>Model</b>	<b>Serial Number</b>	<b>Rod End</b>	<b>Rod End</b>	<b>Rod End or Wire Clamp</b>			<b>Wire Clamp</b>
180I	30000 thru 32150	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MC0713041-1 or MC0713041-1B <b>6</b> (Dual control, one per aircraft)		MC0411090-22CH <b>3</b> MCS2323-5 Wire Clamp
180I	32151 thru 32160	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MC0713041-1 or MC0713041-1B <b>6</b> (Dual control, one per aircraft)		Control N/A MCS2323-5 Wire Clamp
180I, 180A	32161 thru 50355	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MC0713041-1 or MC0713041-1B <b>6</b> (Dual control, one per aircraft)		MC0713050-2 MCS2323-5 Wire Clamp
180B	50356 thru 50661	MCS1222-1S	MCS1223-4	MC0713050-2 <b>4 5</b>	MC0713041-1 or MC0713041-1B <b>6</b> (Dual control, one per aircraft)		MC0713050-2 MCS2323-5 Wire Clamp
180C	All	MCS1222-1S	MCS1223-4	MC0713050-2 <b>4 5</b>	MC0713041-1 or MC0713041-1B <b>6</b> (Dual control, one per aircraft)		MC0713050-2 MCS2323-5 Wire Clamp
180D,E	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MCS1245-1	MCS1245-2	MC0713302-5CH <b>3</b> MCS2323-5 Wire Clamp
180F	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MCS1245-1	MCS1245-2	MCS1230-2 MCS2323-5 Wire Clamp
180G	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MCS1245-3	MCS1245-2	MCS1230-2 MCS2323-5 Wire Clamp
180H I	18051446 thru 18051875	MCS1222-13S	MCS1223-5	MC600-72 <b>5</b>	MCS1572-1	MCS1245-2	MCS1230-2 MCS2323-5 Wire Clamp
180H I, J	18051876 thru 18052770	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MCS1572-1	MCS1245-2	MCS1230-19 MCS2323-5 Wire Clamp
180K I	18052771 thru 18053000	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860074-3	MC9860074-4	MCS1230-19 MCS2323-5 Wire Clamp
180K I	18053001 thru 18053203	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860074-3	MC9860074-4	MCS1230-19 MCS2323-5 Wire Clamp
182	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	Control N/A		Control N/A MCS2323-5 Wire Clamp
182A	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	Control N/A		MCS2323-5 Wire Clamp MC0411090-22CH <b>3</b>
182B,C	All	MCS1222-1S	MCS1223-4	MC0713050-2 <b>4 5</b>	MC0713306-1 (Dual control, one per aircraft)		MC0713302-5CH <b>3</b> MCS2323-5 Wire Clamp
182D	All	MCS1222-1S	MCS1223-4	MC600-72 <b>5</b>	MCS1245-1	MCS1245-2	MC0713302-5CH <b>3</b> MCS2323-5 Wire Clamp
182E,F,G	All	MCS1222-6S	MCS1223-6	MC600-72 <b>5</b>	MC9860058-3	MC9860058-4	MCS1230-3 MCS2323-5 Wire Clamp
182H,J,K	All	MCS1222-13S	MCS1223-6	MC600-72 <b>5</b>	MC9860058-3	MC9860058-4	MCS1230-3 MCS2323-5 Wire Clamp
182L,M,N I	18258506 thru 18260445	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182N I, P I	18260446 thru 18261425	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182P I	18261426 thru 18264835	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182P I	18264836 thru 18265175	MC9863053-5	MCC299506-0102	MC600-72 <b>5</b>	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182Q I	18265176 thru 18266590	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182Q I	18266591 thru 18267715	MC9863055-9	MC9862067-3	MC600-72 <b>5</b>	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182R	All	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp	MC9860058-3	MC9860058-4	MCS1230-10 MCS2323-5 Wire Clamp
182S, 182T, T182T	All	MC565-549-031	MC565-580-038	MC565-548-042	MC580-703-024	MC580-703-025	
A182J,K,L,N		Control N/A	Control N/A	Control N/A			MCS2323-5 Wire Clamp
F182P	All	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp			MCS1230-10 MCS2323-5 Wire Clamp
F182Q I	F18200026 thru F18200094	MC9863053-5	MCC299506-0102	MC600-72 <b>5</b>			MCS1230-10 MCS2323-5 Wire Clamp
F182Q I	F18200095 thru F18200169	MCS1106-4 Rod End	MCS1104-3 Rod End	MCS2323-4 Wire Clamp			MCS1230-10 MCS2323-5 Wire Clamp
FR182 I	FR18200001 thru FR18200020	MC9863053-11	MC345-085-5	Control N/A			MCS1230-10 MCS2323-1 Wire Clamp
FR182 I	FR18200021 thru FR18200045	MCS1104-3 Rod End	MCS1104-3 Rod End	MCS2323-11 Wire Clamp			MCS1230-10 MCS2323-1 Wire Clamp

**1** Partial model eligibility.  
**2** Eligible for use as a carburetor heat control only.  
**3** Part number MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337) and may require enlarging the instrument panel mounting hole to 3/4" diameter.

**4** If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit.  
**5** The MC600-72 control is an approved alternate control for this aircraft. See note **5**.  
**6** See page 15 for details.

**Eligibility continued on next page.**

# Push-Pull Controls and Accessories

## Engine, Cowl Flap & Carb Heat Controls - Cessna







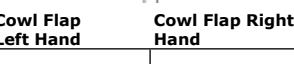





Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Cowl Flap Left Hand	Cowl Flap Right Hand	Carb Heat Control
		Rod End	Rod End	Rod End or Wire Clamp			Wire Clamp
FR182 <sup>1</sup>	FR18200046 thru FR18200070	MC9863056-6 MCS1104-3 Rod End	MC345-085-8 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp			MCS1230-10 MCS2323-1 Wire Clamp
R182 <sup>1</sup>	R18200001 thru R18200583	MC9863053-11 MCS1104-3 Rod End	MC345-085-5 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 Wire Clamp
R182 <sup>1</sup>	R18200584 thru R18201313	MC9863056-6 MCS1104-3 Rod End	MC345-085-5 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 Wire Clamp
R182 <sup>1</sup>	R18201314 thru R18202041	MC9863056-6 MCS1104-3 Rod End	MC345-085-8 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	MCS1230-10 MCS2323-1 Wire Clamp
T182	All	MC9863056-7 Rod End N/A	MC345-085-8 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	Control N/A MCS2323-3 Wire Clamp
TR182 <sup>1</sup>	R18200584 thru R18201313	MC9863056-7 MCS1104-3 Rod End	MC345-085-6 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	Control N/A MCS2323-3 Wire Clamp
TR182 <sup>1</sup>	R18201314 thru R18202041	MC9863056-7 MCS1104-3 Rod End	MC345-085-8 MCS1104-3 Rod End	Control N/A MCS2323-11 Wire Clamp	MC9860075-3	MC9860075-4	Control N/A MCS2323-3 Wire Clamp
185	All	MC1213228-3 MCS1104-3 Rod End	MCS1223-5 MCS1104-3 Rod End	MC1213229-2 MCS1104-3 Rod End	MCS1245-3	MCS1245-2	MCS1230-2 Wire Clamp N/A
185A,B,C,D,E	All	MCS1294-1 MCS1104-3 Rod End	MCS1223-5 MCS1104-3 Rod End	MCS1220-4 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	MCS1230-2 Wire Clamp N/A
A185E <sup>1</sup>	185-0968 thru 185-1300	MCS1294-1 MCS1104-3 Rod End	MCS1223-5 MCS1104-3 Rod End	MCS1220-4 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	MCS1230-2 Wire Clamp N/A
A185E <sup>1</sup>	185-1301 thru 18502007	MCC299505-0301 MCS1104-3 Rod End	MCC299506-0103 MCS1104-3 Rod End	MCC299507-0201 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185E <sup>1</sup>	18502008 thru 18502025	MCC299505-0501 MCS1104-3 Rod End	MCC299506-0201 MCS1104-3 Rod End	MCC299507-0401 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185E <sup>1</sup>	18502026 thru 18502027	MCC299505-0301 MCS1104-3 Rod End	MCC299506-0103 MCS1104-3 Rod End	MCC299507-0201 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185E <sup>1</sup>	18502028 thru 18502090	MCC299505-0501 MCS1104-3 Rod End	MCC299506-0201 MCS1104-3 Rod End	MCC299507-0401 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185F <sup>1</sup>	18502091 thru 18502310	MCC299505-0501 MCS1104-3 Rod End	MCC299506-0201 MCS1104-3 Rod End	MCC299507-0401 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185F <sup>1</sup>	18502311 thru 18503153	MCC299505-0501 MCS1106-3 Rod End	MCC299506-0201 MCS1104-3 Rod End	MCC299507-0401 MCS1104-3 Rod End	MCS1572-1	MCS1245-2	
A185F <sup>1</sup>	18503154 thru 18503683	MC9863053-17 MCS1104-3 Rod End	MC345-085-7 MCS1104-3 Rod End	MC9862066-3 MCS1104-3 Rod End	MC9860074-3	MC9860074-4	
A185F <sup>1</sup>	18503684 thru 18504448	MC9863056-5 MCS1106-3 Rod End	MC345-085-7 MCS1104-3 Rod End	MC9862066-3 MCS1104-3 Rod End	MC9860074-3	MC9860074-4	
188,188A	All	MCS1391-18 MCS1104-3 Rod End	MCS1391-19 MCS1104-3 Rod End	MCS1220-13 MCS1104-3 Rod End			Control N/A MCS2323-5 Wire Clamp
188B,A-188B <sup>2</sup> A-188B <sup>3</sup>	All	MCS2149-1 MCS1106-3 Rod End	MCS2149-2 MCS1106-3 Rod End	MCC299507-0301 MCS1106-3 Rod End			Control N/A MCS2323-5 Wire Clamp
A188 <sup>3</sup> A188A <sup>3</sup>	All	MCS1391-20 MCS1104-3 Rod End	MCS1391-19 MCS1104-3 Rod End	MCS1220-13 MCS1104-3 Rod End			Control N/A MCS2323-5 Wire Clamp
A188B <sup>1,3</sup>	18802349 thru 18802745 18802349T thru 18802745T	MCS2149-1 MCS1106-3 Rod End	MCS2149-2 MCS1106-3 Rod End	MCC299507-0301 MCS1106-3 Rod End			Control N/A MCS2323-5 Wire Clamp
A188B <sup>1,3</sup>	18802746 thru 18803973 18802746T thru 18803973T	MCC299508-0301 MCS1106-3 Rod End	MCC299508-0302 MCS1106-3 Rod End	MCC299508-0401 MCS1106-3 Rod End			Control N/A MCS2323-5 Wire Clamp
T188C	All	MCC299508-0303 MCS1106-3 Rod End	MCC299508-0304 MCS1106-3 Rod End	MCC299508-0402 MCS1106-3 Rod End			
190	All	MC0411091-4 MCS1106-3 <sup>2</sup> Rod End	MC0311031-1 MCS1104-3 <sup>2</sup> Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End			
195,195A,B	All	MC0411091-4 MCS1106-3 <sup>2</sup> Rod End	MC0311031-2 MCS1104-3 <sup>2</sup> Rod End	Control N/A MCS1104-3 <sup>2</sup> Rod End			
210-5 (205) 210-5A (205A)	All	MCS1219-1 MCS1104-3 Rod End	MCS1223-17 MCS1104-3 Rod End	MCS1220-3 MCS1104-3 Rod End	MCS1244-5	MCS1244-31	
206	All	MCS1219-1 MCS1104-3 Rod End	MCS1223-17 MCS1104-3 Rod End	MCS1220-3 MCS1104-3 Rod End	MCS1244-5	MCS1244-31	
206H	All	MC565-549-041 MCS1104-3 Rod End	MC565-580-012 MCS1104-3 Rod End	MC565-548-043 MCS1104-3 Rod End	MC580-703-026	MC580-703-027	
P206,P206A,B	All	MCS1222-10A MCS1104-3 Rod End	MCS1223-4 MCS1104-3 Rod End	MCS1220-3 MCS1104-3 Rod End	MCS1244-5	MCS1244-31	
P206C,D,E	All	MCC299505-0101 MCS1104-3 Rod End	MCC299506-0101 MCS1104-3 Rod End	MCC299507-0101 MCS1104-3 Rod End	MCS1244-5	MCS1244-31	
T206H	All	MC565-549-041 MCS1104-3 Rod End	MC565-580-012 MCS1104-3 Rod End	MC565-548-043 MCS1104-3 Rod End	MC580-703-026	MC580-703-027	
TP206A <sup>1</sup>	P2060161 thru P2060274	MCS1222-10A MCS1104-3 Rod End	MCS1223-4 MCS1104-3 Rod End	MCS1220-3 MCS1104-3 Rod End	MCS1244-5	MCS1244-31	
TP206A <sup>1</sup> , B	P2060275 thru P2060419	MCS1222-10A MCS1104-3 Rod End	MCS1223-4 MCS1104-3 Rod End	MCS1220-3 MCS1104-3 Rod End	MCS1244-32	MCS1244-31	

<sup>1</sup> Partial model eligibility. <sup>2</sup> If replacing P/N S1186-1 or P/N 0550158 also order RE-KT-1 hardware kit.  
<sup>3</sup> Controls not eligible for A188, A188A, or A188B with Continental O-470 engine.



# Push-Pull Controls and Accessories

## Engine, Cowl Flap & Carb Heat Controls - Cessna

Model	Serial Number	 <b>Throttle Control</b>		 <b>Propeller Control</b>		 <b>Mixture Control</b>		 <b>Cowl Flap Left Hand</b>		 <b>Cowl Flap Right Hand</b>		 <b>Carb Heat Control</b>	
		 <b>Rod End</b>		 <b>Rod End</b>		 <b>Rod End or Wire Clamp</b>						 <b>Wire Clamp</b>	
TP206C,D,E	All	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
TU206A	U2060438 thru U2060617	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
TU206A	U2060618 thru U206-0914	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
TU206C,D,E,F	All	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
TU206G	U20603522 thru U20604649	MC9863053-13	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
TU206G	U20604650 thru U20607020	MC9863056-2	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206,U206A,B	All	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206C,D,E	All	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206F	U20601701 thru U20602199	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206F	U20602200 thru U20603521	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206G	U20603522 thru U20604649	MC9863053-13	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
U206G	U20604650 thru U20607020	MC9863056-2	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
207,T207	All	MCS1222-25A	MCS1223-16	MCS1220-12A	MCS1244-29	MCS1244-30							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
207A	20700363 thru 20700482	MC9863053-16	MC9862067-12	MC9862066-5	MCS1244-29	MCS1244-30							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
207A	20700483 thru 20700788	MC9863056-4	MC9862067-12	MC9862066-5	MCS1244-29	MCS1244-30							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210,210A	All	MC1213228-2	MCS1223-17	MC1213229-1	MC1213040-1	MC1213040-2							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210B,C,D	All	MCS1219-1	MCS1223-17	MCS1220-3	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210E,F,G	All	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210H,J	All	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210K	21059200 thru 21059240	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210K	21059241 thru 21061573	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210M	All	MC9863053-13	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210N	All	MC9863056-2	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
210R	All	MCC299513-0101	Control N/A	Control N/A									
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
P210N	P21000001 thru P21000150	MC9863053-13	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
P210N	P21000151 thru P21000834	MC9863056-2	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
P210R	All	MCC299513-0101	Control N/A	Control N/A	Control N/A	Control N/A							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1106-3 Rod End	MCS1106-3 Rod End							
T210F	All	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210G	All	MCS1222-10A	MCS1223-4	MCS1220-3	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210H,J	All	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210K	21059200 thru 21059240	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-5	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210K	21059241 thru 21061573	MCC299505-0101	MCC299506-0101	MCC299507-0101	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210M	All	MC9863053-13	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210N	All	MC9863056-2	MC9862067-1	MC9862066-1	MCS1244-32	MCS1244-31							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End									
T210R	All	MCC299513-0101	Control N/A	Control N/A	Control N/A	Control N/A							
		MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1104-3 Rod End	MCS1106-4 Rod End	MCS1106-4 Rod End							

**■ Partial model eligibility.**

# Push-Pull Controls and Accessories

## Cowl Flap & Fuel Strainer Drain Controls - Cessna

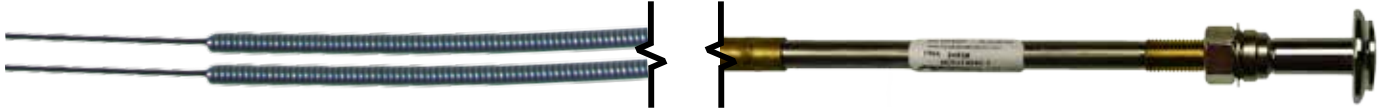
**McFarlane**  
FAA-PMA Approved

### Dual Cowl Flap Controls for Cessna Aircraft

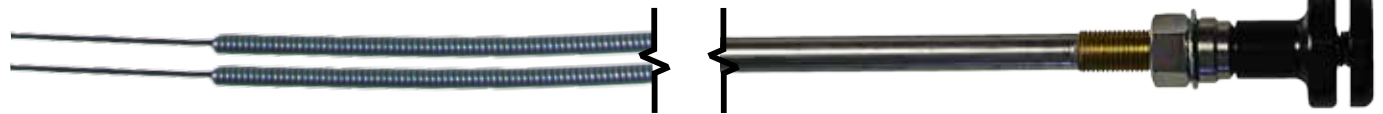
#### Models 180, 180A and 180B

- Solid wire ends
- Choose a chrome or black knob to match your panel!

Chrome P/N MC0713041-1



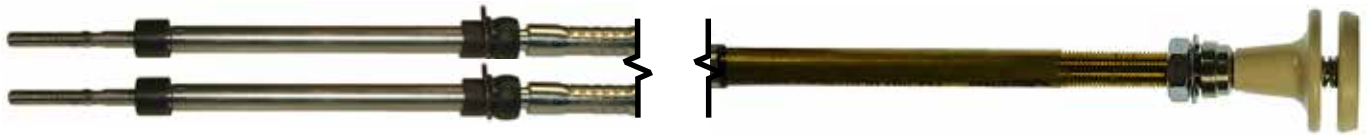
Black P/N MC0713041-1B



#### Models 180C, 182B and 182C

- Higher locking force than the original prevents cowl flap slippage
- Superior low friction Teflon lined conduit to reduce wear
- Heavier inner wire and conduit mean less deflection under load
- Powder coated aluminum knob for a durable finish
- Push rod ends
- P/N MC0713306-1

**New!**



### Fuel Strainer Drain Cables

#### No more plastic knobs in the engine compartment MCS1517 Series

- Improved aluminum knob with easier to read lettering
- Stainless steel conduit for improved corrosion resistance
- Larger wire diameter for increased strength and wear resistance

**New!**



See pages 47-48 for eligibility and fuel strainer kits.

## Cabin Environment and Fuel Shut Off Controls for Cessna Aircraft

- Special, heavier wire for more fatigue strength and reliability
- Improved push-to-unlock mechanism - more holding strength
- Longer life
- High temperature Teflon lined conduit
- Reduced vibration wear
- Most knobs match originally equipped knobs



Aircraft	Serial Number	Part Number	Aux Cabin Air	Cabin Air	Cabin Air LH	Cabin Air RH	Cabin Heat	Cabin Vent.	Cold Air	Defrost	Fuel Shut Off	Fuel Valve	Fwd Air
180F,G,H	18051184 thru 18051875	MCS1241-1					•						
182E,F,G,H,J,K	All	MCS1241-1		•			•						
182L,M,N	18258506 thru 18260445	MCS1241-27		•			•						
182N,P,Q,R,S,T	18260446 and On	MCS1241-34					•						
F182P,Q, FR182	All	MCS1241-34					•						
R182, T182, T182T, TR182	All	MCS1241-34					•						
185, 185A	185-0001 thru 185-0413	MCS1241-1					•						
185A,B	185-0414 thru 185-0653	MCS1241-1					•					•	
185C	All	MCS1241-1					•						
185D,E	All	MCS1241-1					•				•		
A185E	185-0968 thru 185-1300	MCS1241-1					•				•		
	185-1301 thru 185-1599	MCS1241-27									•		
	18501600 thru 18501679	MCS1241-34									•		
188B	18800986 thru 18801824	MCS1241-34						•					
	18801825 thru 18802348	MCS1241-34	•										
A188B, A188B (w/large hopper)	18800986 thru 18801824T	MCS1241-34						•					
	18801825 thru 18802348T	MCS1241-34	•										
	18802349 thru 18802745T	MCS1241-34	•						•				
	18802746 thru 18803973T	MCS1241-34							•				
T188C	All	MCS1241-34						•					
210-5(205)	205-0001 thru 205-0126	MCS1241-1	•	•		•	•						
	205-0127 and On	MCS1241-1	•	•	•	•	•						
206	All	MCS1241-1	•	•			•						
206H	20600001 thru 20608082	MCS1241-34		•			•						
	20608083 and On	MCS1241-34		•			•			•			
P206, P206A,B	All	MCS1241-1	•	•			•						
P206C,D	All	MCS1241-27	•	•			•						
P206E	U20601445 thru U20601587	MCS1241-34		•			•						
T206H	T20608001 thru T20608146	MCS1241-34		•			•						
	T20608147 and On	MCS1241-34		•			•			•			
TP206A,B	All	MCS1241-1					•						
TP206C	All	MCS1241-27	•	•			•						
TP206D,E	All	MCS1241-27					•						
TU206A	All	MCS1241-1					•						
TU206B	All	MCS1241-1	•	•			•						
TU206C,D	All	MCS1241-27	•	•			•						
TU206E,F	U20601445 thru U20602199	MCS1241-27					•						
TU206F	U20602200 thru U20603521	MCS1241-34		•			•						
TU206G	All	MCS1241-34		•			•			•			
U206	All	MCS1241-1		•			•						
U206A,B	All	MCS1241-1	•	•			•						
U206C,D	All	MCS1241-27	•	•			•						
U206E,F	All	MCS1241-34		•			•						
U206G	All	MCS1241-34		•			•			•			
207, T207	20100001 thru 20700148	MCS1241-27	•	•			•						
	20700149 thru 20700362	MCS1241-34		•			•						
207A, T207A	All	MCS1241-34		•			•			•			
210B	21057841 thru 21057940	MCS1241-1				•	•						
	21057941 thru 21058085	MCS1241-1					•						
210C	All	MCS1241-1					•						
210D	All	MCS1241-1				•	•						
210E	All	MCS1241-1	•			•	•	•					
210F	All	MCS1241-1	•				•						
210G	All	MCS1241-1	•	•			•						
210H,J	All	MCS1241-27	•	•			•						
210K,L,M,N,R	All	MCS1241-34		•			•						
P210N,R	All	MCS1241-34											•
T210F	All	MCS1241-1	•				•						
T210G	All	MCS1241-1	•	•			•						
T210H,J	All	MCS1241-27	•	•			•						
T210K,L,M,N,R	All	MCS1241-34		•			•						

Partial model eligibility



# Push-Pull Controls and Accessories Engine Controls - Piper



## Throttle, Mixture and Propeller Controls

- Solid metal construction
- Pilot friendly knobs
- Lifetime lubrication
- Superior low friction conduit



## Carb Heat and Alt Air Controls

Longer life and save up to \$200.00

- The most commonly replaced controls just got better!
- Special, heavier wire for more fatigue strength and reliability
- Improved friction mechanism
- Reduced vibration wear
- Anti-rotate feature to reduce stress on the inner wire
- High temperature Teflon lined conduit
- Realistic price

Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-18, PA-18"105" (Special)	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"125" (Army L-21A)	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"135" (Army L-21B)	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18"150"	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18A, PA-18A"135",A"150"	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18AS"125", AS"135", AS"150"	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18S, PA-18S"105",S"125",S"135"	All			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-18S "150"	1809001 thru 1809113			MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-18S "150"	18-3771 thru 18-8309025			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-19, PA19S,L-18C	All			MC600-72	
PA-20, PA-20S	20-01 thru 20-811	MC455-139		MC454-120 1 7 or MC600-72 8	MC454-120 2
PA-20, PA-20S	20-812 thru 20-1121	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20, PA-20S	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"115", PA-20S"115"	20-01 thru 20-1121	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"115", PA-20S"115"	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"135", PA-20S"135"	20-877 thru 20-1121	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-20"135", PA-20S"135"	20-1122 and On			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22	All	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22-108	22-8000 and On	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 1
PA-22-135	22-534 thru 22-2377	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22-135	22-2379 thru 22-2424	MC455-139		MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22-135	22-2378, 22-2425 thru 22-3217	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-135	22-3219 thru 22-3386	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22S-135	22-534 thru 22-2377			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22S-135	22-2379 thru 22-2424			MC454-120 5 7 or MC600-72 8	MC454-120 2
PA-22S-135	22-2378, 22-2425 thru 22-3217	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22S-135	22-3219 thru 22-3386	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-150, PA-22S-150	22-2378, 22-2425 thru 22-7642	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-22-160, PA-22S-160	22-5139, 22-5603 thru 22-7642	MC12693-04		MC454-120 5 7 or MC600-72 8	MC454-120 3
PA-24	24-1 thru 24-2969			MC454-120 1 7 or MC600-72 8	
PA-24-250	24-1 thru 24-104			MC454-120 1 7	
PA-24-250	24-105 thru 24-2174		MC455-184	MC454-120 1 7 or MC600-72 8 Carb. Engine Only	
PA-24-250	24-2175 thru 24-2969		MC455-252	MC454-120 1 7 or MC600-72 8 Carb. Engine Only	
PA-24-250	24-2970 thru 24-3687		MC455-252	MC600-72 Carb. Engine Only	
PA-24-260	24-3642, 24-4000 thru 24-4803		MC455-252	MC600-72 Carb. Engine Only	
PA-24-260	24-4804 thru 24-5034			MC600-72 Carb. Engine Only	
PA-24-400	26-2 thru 26-148			MC22633-04	
PA-28-140	28-20002 thru 28-21095	MC12693-04		MC600-72	MC63902-003 4
PA-28-140	28-21096 thru 28-24999	MC12693-04		MC600-72	MC63902-016 6
PA-28-140	28-25000 thru 28-25821	MC455-353		MC455-352	MC554-167
PA-28-140	28-25822 thru 28-7425418	MC455-353		MC455-352	MC554-093 1
PA-28-140	28-7425419 thru 28-7725290	MC455-353		MC455-352	MC554-094 1
PA-28-150	28-1 thru 28-2627	MC12693-04		MC600-72	MC63902-003 4
PA-28-150	28-2628 thru 28-4377	MC12693-04		MC600-72	MC63902-016 6
PA-28-151	All	MC455-350		MC455-352	MC554-093 1
PA-28-160	28-1 thru 28-2627	MC12693-04		MC600-72	MC63902-003 4
PA-28-160	28-2628 thru 28-4377	MC12693-04		MC600-72	MC63902-016 6
PA-28S-160	28-1 thru 28-1760			MC600-72	MC63902-003 4
PA-28-161	2816001 thru 2816110 (Less 2816066)	MC455-350		MC455-352	MC554-093 1
PA-28-161	2816111 thru 2816119			MC455-352	MC554-093 1
PA-28-161	2841001 thru 2842999	MC455-350		MC455-352	MC554-093 1
PA-28-161	28-7716002 thru 28-8616057	MC455-350		MC455-352	MC554-093 1
PA-28-180	28-671 thru 28-1760	MC12693-04		MC600-72	MC63902-003 4
PA-28-180	28-1761 thru 28-2627	MC12693-04		MC600-72	MC63902-003 4
PA-28-180	28-2628 thru 28-4377	MC12693-04		MC600-72	MC63902-016 6
PA-28-180	28-4378 thru 28-5152	MC455-333		MC455-332	MC66856-007
PA-28-180	28-5153 thru 28-5398	MC455-350		MC455-352	MC66856-007
PA-28-180	28-5399 and On	MC455-350		MC455-352	MC554-095 1
PA-28R-180	28R-30005 thru 28R-30481	MC455-322	MC455-322	MC455-322	
PA-28R-180	28R-30483 thru 28R-31092	MC455-322	MC455-322	MC455-322	
PA-28R-180	28R-31093 thru 28R-31279	MC455-322	MC455-322	MC455-322	MC554-092 1
PA-28R-180	28R-7130001 thru 28R-7130013	MC455-322	MC455-322	MC455-322	MC554-130 1

Eligibility continued on the next page. See notes regarding the Mixture, Carburetor Heat and Alternate Air controls on the next page.



Continued from previous page FAA-PMA Approved for Piper Aircraft					
Model	Serial Number	Throttle Control	Propeller Control	Mixture Control	Carb Heat or Alt Air Control
PA-28R-180	28R-7130014 thru 28R-7130019	MC455-322	MC455-322	MC455-322	
PA-28S-180	28-671 thru 28-2627			MC600-72	MC63902-003 <b>4</b>
PA-28S-180	28-2628 thru 28-4377			MC600-72	MC63902-016 <b>6</b>
PA-28S-180	28-4378 thru 28-5398				MC66856-007
PA-28S-180	28-5399 thru 28-7205234				MC554-095 <b>1</b>
PA-28-181	2843001 thru 2843999				MC554-094 <b>1</b>
PA-28-181	2890001 thru 2890205				MC554-095 <b>1</b>
PA-28-181	2890206 thru 2890231				MC554-094 <b>1</b>
PA-28-181	28-7690001 thru 28-8290174	MC455-350		MC455-352	MC554-095 <b>1</b>
PA-28-181	28-8390001 and On	MC455-350		MC455-352	MC554-095 <b>1</b>
PA-28-201T	28-7921001 thru 28-7921095	MC455-322	MC455-322	MC455-361	MC554-387 <b>1</b>
PA-28R-200	28R-30482, 28R-35001 thru 28R-35225	MC455-322	MC455-322	MC455-322	
PA-28R-200	28R-35226 thru 28R-35830	MC455-322	MC455-322	MC455-322	MC554-092 <b>1</b>
PA-28R-200	28R-7135001 thru 28R-7635545	MC455-322	MC455-322	MC455-322	MC554-130 <b>1</b>
PA-28R-201	2837001 thru 2837061	MC455-322	MC455-322	MC455-322	MC554-130 <b>1</b>
PA-28R-201	2844001 thru 2844999				MC554-130 <b>1</b>
PA-28R-201	28R-7737002 thru 28R-7837317	MC455-322	MC455-322	MC455-322	MC554-130 <b>1</b>
PA-28R-201T	28R-7703002 thru 28R-7803372	MC455-322	MC455-322	MC455-361	MC554-387 <b>1</b>
PA-28R-201T	2803001 thru 2803015	MC455-322	MC455-322	MC455-361	MC554-387 <b>1</b>
PA-28RT-201	28R-7918001 thru 28R-8018116	MC455-322	MC455-322	MC455-322	MC554-130 <b>1</b>
PA-28RT-201	28R-8018117 thru 28R-8118000				MC554-130 <b>1</b>
PA-28RT-201	28R-8118001 and On	MC455-322	MC455-322	MC455-322	MC554-130 <b>1</b>
PA-28RT-201T	2831001 thru 2831038				MC554-387 <b>1</b>
PA-28RT-201T	28R-7931001 thru 28R-8031188	MC455-322	MC455-322	MC455-361	MC554-387 <b>1</b>
PA-28RT-201T	28R-8031189 thru 28R-8131000				MC554-387 <b>1</b>
PA-28RT-201T	28R-8131001 and On	MC455-322	MC455-322	MC455-361	MC554-387 <b>1</b>
PA-28-235	28-10003 thru 28-11038	MC12693-04		MC600-72	
PA-28-235	28-11039	MC12693-04			
PA-28-235	28-11040 thru 28-11252	MC455-333		MC455-332	MC66856-007
PA-28-235	28-11253 thru 28-11393	MC455-333		MC455-332	MC554-094 <b>1</b>
PA-28-235	28-7110001 thru 28-7210033	MC455-333		MC455-332	MC554-094 <b>1</b>
PA-28-235	28-7310001 thru 28-7710089	MC455-333	MC455-344	MC455-332	MC554-094 <b>1</b>
PA-28-236	28-11001 thru 2811050				MC554-094 <b>1</b>
PA-28-236	28-7911001 thru 28-8211060	MC455-333	MC455-344	MC455-332	MC554-094 <b>1</b>
PA-28-236	28-8311001 and On	MC455-333	MC455-344	MC455-332	MC554-094 <b>1</b>
PA-32-260	32-451 thru 32-1110				MC63902-021 <b>6</b>
PA-32-260	32-1111 thru 32-1320	MC455-360		MC455-361	MC554-053
PA-32-260	32-7100001 thru 32-7800008	MC455-360		MC455-361	MC554-053
PA-32-300	32-40000 thru 32-40565	MC69530-02	MC65451-04		
PA-32-300	32-40566 thru 32-41018	MC455-358			MC554-051
PA-32-300	32-41019 thru 32-7140000				MC554-051
PA-32-300	32-7140001 thru 32-7940282	MC455-358			MC554-051
PA-32-300	32-7940283 and On				MC554-051
PA-32R-300	All				MC554-051
PA-32RT-300	All				MC554-051
PA-32S-300	32S40566 thru 32S-7240137				MC554-051
PA-32-301	32-8006001 thru 32-8406020	MC455-358			MC554-051
PA-32-301	32-8406021 thru 32-8506000	MC455-358			MC554-051
PA-32-301	32-8506001 and On	MC455-358			MC554-051
PA-32-301FT	All				MC554-051
PA-32-301T	32-8024001 thru 32-8424002	MC455-344		MC455-344	MC553-874
PA-32-301T	32-8524001 and On	MC455-344		MC455-344	
PA-32R-301	3213001 thru 3213103				MC554-051
PA-32R-301	3246001 thru 3246999				MC653-658
PA-32R-301	32R-8013001 thru 32R-8613006				MC554-051
PA-32R-301T	3229001 thru 3229003				MC553-885
PA-32R-301T	3257001 thru 3257999				MC653-658
PA-32R-301T	32R-8029001 thru 32R-8229078	MC455-360		MC455-360	MC553-885
PA-32R-301T	32R-8229079 thru 32R-8329000				MC553-885
PA-32R-301T	32R-8329001 and On	MC455-360		MC455-360	MC553-885
PA-32RT-300T	32R-7787001 thru 32R-7887000				MC554-466
PA-32RT-300T	32R-7887001 thru 32R-7987126	MC455-360		MC455-360	MC554-466
PA-38-112	All				MC554-511 <b>1</b>

**Notes:**  
**1** Knob not included.  
**2** Knob not included. Order P/N MC471-052  
**3** Knob not included. Order P/N MC471-060  
**4** Knob P/N MC471-084 included with control.  
**5** Knob not included. Order P/N MC471-053  
**6** Knob P/N MC571-131 included with control.  
**7** Part number MC454-120 duplicates original control.  
**8** Part number MC600-72 is a vernier control. Installation is approved as a minor alteration (No STC or Form 337) and may require enlarging the instrument panel mounting hole to 3/4" diameter.  
 Additional knob eligibility is on shown on the following pages.  
**Rod end part numbers and eligibility can be found on the following pages.**

**Engine Controls for Van's RV Series Aircraft**

- Quick delivery, No long lead times
- High quality and affordable
- Lifetime lubrication
- Non certified, designed for listed aircraft models only
- See page 132 for APS brake discs and linings



	Throttle	Venier-Assist Throttle	Mixture	Prop
RV-10	MCRV10-T	MCRV10-TV	MCRV10-M	MCRV10-P
RV-10 W/Aerosport Products Panel	MCRV10-T-A	MCRV10-TV-A	MCRV10-M-A	MCRV10-P-A
RV-12		MCRV12-TV		

Controls designed to work with Van's firewall forward kit. Call for custom installations.

# Push-Pull Controls and Accessories



## New! Cabin Environment Controls for Piper Aircraft

Longer life and save up to \$200.00

- Special, heavier wire for more fatigue strength and reliability
- Improved friction mechanism
- Reduced vibration wear
- Anti-rotate feature to reduce stress on the inner wire
- High temperature Teflon lined conduit
- Realistic price



Aircraft	Serial Number	Cabin Heat Control	Cabin Heat Rear Control	Cold Air Inlet Control	Defrost Control	Parking Brake Control
PA-18, PA-18A, PA-18S	All	MC454-120 <b>2</b>				
PA-18 "105" (Special), PA-18S "105" (Special)	All	MC454-120 <b>2</b>				
PA-18 "125" (Army L-21A), PA-18AS "125", PA-18S "125"	All	MC454-120 <b>2</b>				
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-1 thru 18-2167	MC454-120 <b>2</b>				
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-2168 and On	MC454-120 <b>2</b>		MC454-120 <b>2</b>		
PA-18AS "135", PA-18 "150"	All	MC454-120 <b>1</b>				
PA-18A "150", PA-18AS "150"	All	MC454-120 <b>2</b>		MC454-120 <b>2</b>		
PA-18S "150"	1809001 thru 1809113	MC454-120 <b>3</b>		MC454-120 <b>1</b>		
PA-18S "150"	18-3771 thru 18-8309025	MC454-120 <b>2</b>		MC454-120 <b>2,3</b>		
PA-20, PA-20S	20-1 thru 20-553	MC454-120 <b>2</b>				
PA-20, PA-20S	20-554 thru 20-811	MC454-120 <b>2</b>		MC454-120 <b>2</b>		
PA-20, PA-20S	20-812 and On	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		
PA-20 "115", PA-20S "115"	All	MC454-120 <b>2</b>				
PA-20 "135", PA-20S "135"	20-877, 20-881, 20-885, 20-888	MC454-120 <b>2</b>		MC454-120 <b>2</b>		
PA-20 "135", PA-20S "135"	20-878 thru 20-880	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		
PA-20 "135", PA-20S "135"	20-882 thru 20-884	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		
PA-20 "135", PA-20S "135"	20-886 thru 20-887	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		
PA-20 "135", PA-20S "135"	20-889 and On	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		
PA-22	All	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-108	All	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>1</b>
PA-22-135	22-534 thru 22-539, 22-543	MC454-120 <b>2</b>		MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-135	22-540 thru 22-542	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-135	22-544 thru 22-2377	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-135	2378	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>1</b>
PA-22-135	22-2379 thru 22-2424	MC454-120 <b>2</b>	MC454-120 <b>2</b>	MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-135	22-2425 and On	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>1</b>
PA-22S-135	22-534 thru 22-2377 and 22-2379 thru 22-2424	MC454-120 <b>2,4</b>	MC454-120 <b>1</b>	MC454-120 <b>2</b>		
PA-22S-135	22-2378, 22-2424 and On	MC454-120 <b>3,4</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2378, 22-2425 thru 22-5138	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>3</b>
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2379 thru 22-2424	MC454-120 <b>2</b>	MC454-120 <b>1</b>	MC454-120 <b>2</b>		MC454-120 <b>2</b>
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5139, 22-5603 and On	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>1</b>
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5140 thru 22-5602	MC454-120 <b>3</b>	MC454-120 <b>3</b>	MC454-120 <b>3</b>		MC454-120 <b>3</b>
PA-24, PA-24-250	24-1 thru 24-2174	MC454-120 <b>1</b>		MC454-120 <b>1</b>	MC454-120 <b>1</b>	MC454-120 <b>1</b>
PA-24, PA-24-250	24-2176 thru 24-2298			MC454-120 <b>1</b>		MC454-120 <b>1</b>

**Notes:**

- 1** Knob not included.
- 2** Knob not included. Order P/N MC471-052
- 3** Knob not included. Order P/N MC471-060
- 4** Quantity 2 each of the Cabin Heat Control is required for this aircraft.

*Additional knob eligibility is on shown on the following page.*

## Swivel Fittings and Studs (Bug Nuts) for Piper Aircraft

Part number 70371-002 swivel fitting and 70371-003 stud are used to attach to solid wire push-pull controls. They wear out due to vibration.

There are two FAA-PMA replacement options. The PMA Products CA70371-002 swivel fitting and CA70371-003 stud, or the Univair U70371-000 swivel assembly.

The U70371-000 replaces Piper part numbers 70371-000 or 70371-800. These are service kits that include the -002 fitting, the -003 stud as well as an AN320-3 castle shear nut, MS24665-132 cotter pin, and two special sized Piper specific washers.



Part Number	Description	Eligible Models
CA70371-002 CA70371-003	Swivel Fitting Stud	PA18, PA18-150, PA22, PA23-150, 160, 235, 250, PA24-180, 250, 260, 400, PA25-150, 235, 260, PA28-140, 150, 151, 160, 161, 180, 181, 201T, 235, 236, PA28R-180, 200, 201, 201T, PA28RT-201, 201T, PA30, PA39, PA31-300, 310, 325, 350, PA31-350, T1020, PA31T, 1, 2, PA31P, 350, PA32-260, 300, 301, 301T, PA32R-300, 301, 301T, PA32RT, PA34-200, 200T, 220T, PA36-285, 300, 375, PA38, PA42, PA42-720, 1000, PA44-180, PA46, PA46-310P, 350P
U70371-000	Swivel Fitting Assy.	PA20, PA20S, PA20-135, PA20S-135, PA22-135, PA22S-135, PA22-150, PA22S-150, PA22-160, PA22S-160, PA22-108, PA23, PA23-160



**Control Knobs for Piper Aircraft**  
Give your panel an upgrade - replace old discolored knobs!

- "Original" look
- Superior quality
- 10-32 thread



Aircraft	Serial Number	Knob Type															
		MC571-131	MC571-131	MC471-060	MC471-052	MC471-060	MC471-052	MC471-060	MC471-084	6289	MC571-131	MC471-060	MC471-052	MC571-131	MC471-060	MC471-052	
PA-18, PA-18A, PA-18S	All																
PA-18 "105" (Special), PA-18S "105"	All																
PA-18 "125" (Army L-21A), PA-18AS "125", PA18S "125"	All																
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-1 thru 18-2167																
PA-18AS "135"	18-1 thru 18-2167																
PA-18 "135" (Army L-21B), PA-18A "135", PA-18S "135"	18-2168 thru 18-7632																
PA-18AS "135"	18-2168 thru 18-7632																
PA-18A "150", PA-18AS "150"	All																
PA-18S "150"	1809001 thru 1809113																
PA-18S "150"	18-3771 thru 18-8309025																
PA-20, PA-20S	20-1 thru 20-553																
PA-20, PA-20S	20-554 thru 20-811																
PA-20, PA-20S	20-812 and On																
PA-20 "115", PA-20S "115"	All																
PA-20 "135", PA-20S "135"	All																
PA-22	All																
PA-22-108	All																
PA-22-135	22-534 thru 22-539																
PA-22-135	22-540 thru 22-542																
PA-22-135	22-543																
PA-22-135	22-544 thru 22-2377																
PA-22-135	22-2378																
PA-22-135	22-2379 thru 22-2424																
PA-22-135	22-2425 and On																
PA-22S-135	22-534 thru 22-2377 and 22-2379 thru 22-2424																
PA-22S-135	22-2378, 22-2425 and On																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2378																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2379 thru 22-2424																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-2425 thru 22-5138																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5139																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5140 thru 22-5602																
PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	22-5603 and On																
PA-25-235	All																
PA-25-260	All																
PA-28-140	28-20002 thru 28-21095																
PA-28-140	28-21096 thru 28-24999																
PA-28-150, PA-28-160	28-0001 thru 28-2627																
PA-28-150, PA-28-160	28-2628 thru 28-4377																
PA-28S-160	28-1 thru 28-1760																
PA-28-180, PA-28S-180	28-671 thru 28-2627																
PA-28-180	28-2628 thru 28-4277																
PA-28-180	28-4278 thru 28-4377																
PA-28S-180	28-671 thru 28-2627																
PA-28S-180	28-2628 thru 28-4377																
PA-28-235	28-10003 thru 28-10675																
PA-28-235	28-10676 thru 28-11039																
PA-32-260	32-1 thru 32-1110																
PA-32-300	32-40000 thru 32-40565																
PA-32-300S	32S-15 thru 32S-40565																



P/N MC471-084 With P/N 6289 Carb Heat Decal (Decal sold separately)



P/N MC471-052



P/N MC471-053



P/N MC471-060



P/N MC571-131

Quantity 2 each of knob Cabin Heat (Ivory) is required for these aircraft.

## Solid Wire Vernier Mixture Control for Beechcraft, Mooney, Maule and Stinson Aircraft

FAA-PMA Approved

- Precise mixture control for less than the original replacement part
- Extra long - trim to exact length
- High quality McFarlane manufacture

Make	Model	Serial Number	Part Number
Raytheon (Beechcraft)	19A, M19A, B19,23, A23-19, B23	All	MC600-120
Raytheon (Beechcraft)	35, A35, B35, C35, D35, E35, F35, G35, H35	All	MC600-72
Mooney	M20, M20A, M20B, M20C, M20D	All	MC600-72
Maule	Bee Dee M-4, M4, M-4C, M-4S, M-4T	All with Carbureted Engine	MC600-72
Maule	M-4-220, M-4-220-C, M-4-220S	All with Carbureted Engine	MC600-72
Maule	M-4-220T, M-4-180C, M-4-180S, M-4-180T	All with Carbureted Engine	MC600-72
Maule	M-5-180C, M-5-220T, M-5-235C	All with Carbureted Engine	MC600-72
Maule	M-5-210TC, M-6-180, M-6-235, MX-7-160	All with Carbureted Engine	MC600-72
Maule	MXT-7-160, MX-7-180, MX-7-180A	All with Carbureted Engine	MC600-72
Maule	MXT-7-180, MXT-7-180A, MX-7-180B	All with Carbureted Engine	MC600-72
Maule	MX-7-180C, M-7-235, MX-7-235	All with Carbureted Engine	MC600-72
Maule	MX-7-235A, MX-7-235B, MX-7-235C, M-8-235	All with Carbureted Engine	MC600-72
Univair (Stinson)	108, 108-1, 108-2, 108-3, 108-5	All	MC600-72



## Throttle Controls for Grumman Aircraft

FAA-PMA Approved

- Throttle Controls for aircraft manufactured by Grumman American, Gulfstream Aerospace Corp. or Tiger Aircraft LLC.
- McFarlane has developed a longer conduit terminal that allows extra clearance between the swivel joint and the air filter box at the clamp location.
- Thread length has been tailored to allow full adjustment of the Grumman swivel assembly.
- Push rod length has been tailored to ensure that McFarlane throttle controls duplicate the original controls in fit and function.

Model	Serial Number	Part Number
AA-1	AA1-0433 and On	MC507005-1
AA-1A	AA1A-0001 and On	MC507005-1
AA-1B	AA1B-0001 and On	MC507005-1
AA-1C	AA1B-0601	MC507005-1
AA-1C	AA1C-0001 and On	MC507005-1
AA-5	AA5-0001 and On	MC507005-2
AA-5A	AA5A-0283 and On	MC507005-2
AA-5B	AA5B-0001 and On	MC507005-3



## Engine Controls for Bellanca Viking Aircraft

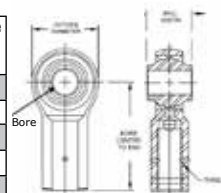
FAA-PMA Approved

Model	Serial Number	Throttle	Propeller	Mixture
17-30A	30263 and On, and aircraft with a S/N prefix "75-"	MCS191783-18	MCS191783-1	MCS191783-16
17-31A	73-32-128 and On, and aircraft with a S/N prefix "75-"	MCS191783-18	MCS191783-1	MCS191783-17
17-31ATC	73-31067 and On, and aircraft with a S/N prefix "75-"	MCS191783-18	MCS191783-1	MCS191783-17

## Rod Ends for Experimental Aircraft

Not for use on certified aircraft. Not FAA-PMA approved.  
See pages 22-24 for FAA-PMA approved rod ends.

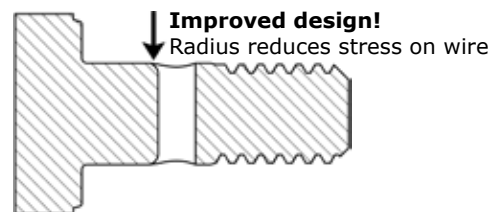
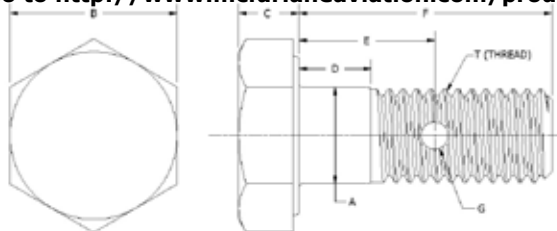
P/N	Bore (in)	O.D. (in)	Bore Ctr to End (in)	Ball Width (in)	Thread (in)	Thread Type	Ultimate Static Load (lbs)
(~)	(in)	(in)	(in)	(in)	(in)	(~)	(lbs)
MW-3M-500	0.190	0.625	1.062	0.312	10-32	Internal	1,531
GMW-3M-470	0.190	0.750	1.375	0.437	1/4-28	Internal	2,881
GMW-4M-470	0.250	0.812	1.375	0.437	1/4-28	Internal	2,950
MM-3M-500	0.190	0.625	1.250	0.312	10-32	External	1,169



## Bolt Style Wire Clamps for Solid Wire Controls for Cessna Aircraft

FAA-PMA Approved

- Unique design to reduce wire stress
- Heat treated stainless steel for wear and corrosion resistance
- The best for less!
- See pages 9-13 to find the correct clamp for your mixture or carb heat control.
- Go to <http://www.mcfarlaneaviation.com/products> to find the correct clamp for all other applications.



Part Number (~)	A Bolt Dia. (in)	B Wrench Size (in)	C Thick (in)	D Grip Length (in)	E Hole Position (in)	F Shank Length (in)	G Hole Dia. (in)	T Thread (~)	Application
MCS2323-1	0.188	3/8	0.125	0.250	0.183	0.653	0.073	10-32	Carb heat, starter, mixture, cabin heat, fuel shutoff, strainer drain, defrost, shutter, wastegate, oxygen control, de-ice, heater, airbox, alternate air, flap/elevator, pressure air dump, heat exchanger
MCS2323-2	0.250	7/16	0.156	0.312	0.325	0.781	0.073	1/4 - 28	cabin heat, mixture, defrost
MCS2323-3	0.250	7/16	0.156	0.188	0.199	0.539	0.073	1/4 - 28	strainer drain, cowl flaps, carb heat, alternate air
MCS2323-4	0.250	7/16	0.156	0.313	0.312	0.781	0.073	1/4 - 28	mixture, flap indicator, flap guide, fuel shut-off
MCS2323-5	0.188	3/8	0.125	0.125	0.188	0.531	0.073	10-32	cabin air, carb heat, starter, airbox, defrost, flap, shutter, oxygen
MCS2323-6	0.250	7/16	0.156	0.188	0.355	0.656	0.073	1/4 - 28	mixture, hopper, induction
MCS2323-7	0.188	3/8	0.125	0.250	0.192	0.656	0.076	10-32	fuel shut-off, alternate air, flap elevator trim
MCS2323-8	0.188	3/8	0.125	0.250	0.202	0.656	0.096	10-32	fuel shut-off, oxygen control
MCS2323-9	0.250	7/16	0.156	0.438	0.343	0.906	0.129	1/4 - 28	flap control, flap guide
MCS2323-10	0.188	3/8	0.125	0.125	0.204	0.477	0.079	10-32	fuel shut-off, heat exchanger
MCS2323-11	0.188	3/8	0.125	0.250	0.266	0.656	0.076	10-32	mixture, bleed air, fuel selector, flap/elevator
MCS2323-12	0.250	7/16	0.156	0.188	0.357	0.656	0.073	1/4 - 28	mixture, cabin heat, pressurization
MCS2323-13	0.250	7/16	0.156	0.313	0.271	0.781	0.073	1/4 - 28	mixture, alternate air, bleed air
MCS2323-14	0.188	3/8	0.125	0.125	0.132	0.531	0.082	10-32	cabin heat, cabin air
MCS2323-19	0.188	3/8	0.125	0.125	0.200	0.531	0.094	10-32	defroster

**Rod Ends for Cessna Aircraft**

- Many applications!
- See pages 9-14 for rod ends for Cessna 120 thru 210 engine controls.



Model	Part Number	AILERON PUSH ROD	ALT AIR CONTROL	CARGO DOOR	COOLING MODULATOR	COWL FLAP	COWL FLAP CONTROL	ELEVATOR BOB WEIGHT LINKAGE	FLAP ACTR PUSH ROD	FLAP CONTROL	FLAP PUSH ROD	INERTIAL SEPARATOR ACTR PUSH ROD	INERTIAL SEPARATOR CONTROL	MAIN GEAR DOOR	MAIN GEAR DOOR ACTUATOR	MIXTURE CONTROL	MIXTURE LINKAGE	NG STEERING ROD	NOSE GEAR DOOR	NOSE GEAR DOOR ACTUATOR	OUTBOARD FLAP PUSH ROD	PROP CONTROL	PROP SYNCRO PUSH ROD	REAR PRESSURIZATION CONTROL	RUDDER BAR	RUDDER BELLCRANK PUSH ROD	SPRAY VALVE PUSH ROD	THROTTLE CONTROL	THROTTLE LINKAGE	WATER RUDDER STEERING
150, 150A,B,C,D,E,F,G,H,J	MCS1106-3																													
150K,L,M,A-150L, A-150K,L,M	S1819-3																													
F150F,G,H,J	MCS1819-4																													
F150K,L,M, FA150K,L,M, FRA150L,M	MCS1106-3																													
152, A152, F152, FA152	MCS1104-3																													
172,172A,B,C	MCS1105-3																													
172D,E,F,G,H,I,K,L,M,N,P,Q,R	MCS1106-3																													
172RG	MCS1106-4																													
172S, F172D,E,F,G,H,K,L,M,N,P, FP172	MCS1106-3																													
FR172E,F,G,H,J	MCS1104-3																													
FR172K	MCS1106-3																													
P172D	MCS1106-3																													
R172K	MCS1106-3																													
175, 175A,B,C	MCS1106-3																													
177, 177A,B	MCS1106-3																													
177RG, F177RG	MCS1106-3																													
180,180A,B,C,D,E,F,G,H,J,K	MCS1106-3																													
182,182A,B,C,D,E,F,G,H,J,K	MCS1106-3																													
182L,M	MCS1106-3																													
182N S/N 18260056 thru 18260445	MCS1106-3																													
182N S/N 18260446 thru 18260825	MCS1106-3																													
182P,Q,R	MCS1106-3																													
182S,T	MCS1106-3																													
F182P,Q	MCS1106-3																													
FR182, R182	MCS1106-3																													
T182	MCS1106-3																													
T182T	MCS1106-3																													
TR182	MCS1106-3																													
185, 185A,B,C,D,E, A185E,F	MCS1106-3																													
188,188A,B, A188, A188A,B, T188C	MCS1106-3																													
210-5 (205), 210-5A (205A)	MCS1106-3																													
206	MCS1106-3																													
206H	MCS1106-3																													
P206,P206A	MCS1106-3																													
P206B,C,D,E	MCS1106-3																													
T206H	MCS1106-3																													
TP206A,B	MCS1106-3																													
TP206C,D,E	MCS1106-3																													
TU206A,B	MCS1106-3																													
TU206C,D,E	MCS1106-3																													
TU206F S/N U20601701 thru U20602199	MCS1106-3																													
TU206F S/N U20602200 thru U20603521,TU206G	MCS1106-3																													
U206,U206A,B,C,D,E,U206F S/N U20601701 thru U20602199	MCS1106-3																													
U206F S/N U20602200 thru U20603521,U206G	MCS1106-3																													
207,207A,T207,T207A	MCS1106-3																													
208,208A,B	MCS1106-3																													
210,210A	MCS1106-3																													
210B,C	MCS1106-3																													
210D,E,F	MCS1106-3																													
210G	MCS1106-3																													
210H,J	MCS1106-3																													
210K,L,M	MCS1106-3																													
210N S/N 21062955 thru 21063168	MCS1106-3																													

Partial model eligibility. P/N S1823-3 is applicable to model 150J only. P/N S1107-3 is applicable to models 182, 182A,B,C,D only.



# Push-Pull Controls and Accessories



## Rod Ends for Cessna Aircraft

- Many applications!
- See pages 9-14 for rod ends for Cessna 120 thru 210 engine controls.



Model	P/N	AILERON PUSH ROD	ALT AIR CONTROL	CARGO DOOR	COOLING MODULATOR	COWL FLAP	COWL FLAP CONTROL	ELEVATOR BOB WEIGHT LINKAGE	FLAP ACTR PUSH ROD	FLAP CONTROL	FLAP PUSH ROD	INERTIAL SEPERATOR ACTR PUSH ROD	INERTIAL SEPERATOR CONTROL	MAIN GEAR DOOR	MAIN GEAR DOOR ACTUATOR	MIXTURE CONTROL	MIXTURE LINKAGE	NG STEERING ROD	NOSE GEAR DOOR	NOSE GEAR DOOR ACTUATOR	OUTBOARD FLAP PUSH ROD	PROP CONTROL	PROP SYNCRO PUSH ROD	REAR PRESSURIZATION CONTROL	RUDDER BAR	RUDDER BELLCRANK PUSH ROD	SPRAY VALVE PUSH ROD	THROTTLE CONTROL	THROTTLE LINKAGE	WATER RUDDER STEERING		
		MCS1106-3	S1819-3	MCS1819-4	MCS1106-3	MCS1104-3	MCS1105-3	MCS1106-3	MCS1104-3	MCS1106-3	MCS1106-4	MCS1106-3	S1819-3	MCS1106-3	MCS1106-3	MCS1106-4	MCS1106-3	MCS1106-4	S1107-3	MCS1105-3	MCS1106-3	MCS1106-4	S1819-3	S1819-3	MCS1104-3	MCS1106-3	MCS1106-3	MCS1106-3	MCS1106-4	MCS1106-3	MCS1105-3	
210N S/N 21063169																																
210N S/N 21063170 thru 21063174																																
210N S/N 21063175 thru 21064135																																
210N S/N 21064136 thru 21064897																																
210R																																
P210N S/N P21000001 thru P21000150																																
P210N S/N P21000151 thru P21000196																																
P210N S/N P21000197																																
P210N S/N P21000198 thru P21000212																																
P210N S/N P21000213 thru P21000834																																
P210R																																
T210F																																
T210G																																
T210H,J																																
T210K,L,M																																
T210N																																
T210R																																
310,310B																																
310C,D,F,G,H,I,J,J-1,K																																
310L,N																																
310P,Q																																
310R																																
E310H,J																																
T310P,Q																																
T310R																																
320,320-1,320A,B,C																																
320D,E,F																																
335																																
336																																
337																																
337A,B																																
337C																																
337D																																
337E,F																																
337G,H																																
F337E,F																																
F337G,H																																
FT337E,F																																
FT337GP (FP337)																																
FT337HP (FP337H)																																
M337B																																
P337H																																
T337B,C,D																																
T337E,F																																
T337G																																
T337H																																
T337H-SP																																

Partial model eligibility.

### Rod End Dimensions

Part Number	Bore/Eye	Thread
MCS1104-3	0.19	10-32 Internal
MCS1105-3	0.19	10-32 External
MCS1106-3	0.19	1/4-28 Internal
MCS1106-4	0.25	1/4-28 Internal
S1107-3	0.19	3/8-24 External
S1819-3	0.19	1/4-28 Internal
S1823-3	0.19	3/8-24 External
MCS1819-4	0.25	1/4-28 Internal





**Rod Ends for Piper Aircraft**

Model	Part Number	Description/Application
PA-18/18A, PA-18-105/125/135/150 & PA-18A-125/135/150 S/N's 18-1 thru 18-8309025 and PA18-150 S/N's 1809001 thru 1809113	CA452-335A	Wing panel assembly, uncovered
PA-22 & PA-22-108/135/150/160	CA452-335A	Wing panel assembly, nose wheel
PA-23-150/160 PA 23-235/PA23-250 / PA 23-250	CA452-335A	Nose gear, main gear
PA-24-180/250/260/400	CA452-412	Landing gear retraction system, flap control mechanism, control surfaces
PA-28-140/150/160/180/235/R-180/200	CA452-334A	Steering push rod & shimmy damper, main gear bearing, control system
	CA452-335A	Bungee assembly, nose wheel, landing gear door
	CA452-336A	Flap control, nose gear assembly
	CA452-368	Main gear
	CA452-584	Landing gear door
PA-28-151/161 S/N 715001 thru 28-7715314, 28-7716001 thru 28-8616057 & 2816001 thru 2816119	CA452-860A	Shimmy damper
	CA452-334A	Nose gear
	CA452-335A	Nose gear, control system, flap control
PA-28-161 S/N 2841001 thru 2841365	CA452-334A	Nose gear
PA-28-161 S/N 2842001 & up	CA452-335A	Control system, flap control
	CA452-336A	Flap control
PA-28-181 S/N 28-7690001 thru 28-8690056 & 2890001 thru 2890231	CA452-334A	Nose gear
	CA452-335A	Control system
PA-28-181 S/N 2843001 & up	CA452-336A	Flap control
	CA452-334A	Nose landing gear, main landing gear
PA-28R-201/201T S/N 28R-773700, 2837001 thru 2837061, 28R7703002 thru 28R-7803372 & 2803001 thru 2803015	CA452-335A	Landing gear door, control system, flap control
	CA452-336A	Flap control
	CA452-584	Landing gear door
	CA452-334A	Nose landing gear
PA-28R-201 S/N 2844001 & up	CA452-335A	Landing gear door, control system, flap control
	CA452-336A	Flap control
	CA452-368	Main landing gear
	CA452-334A	Nose landing gear
PA-28RT-201/201T	CA452-335A	Landing gear door
PA-30/39	CA452-412	Landing gear retraction system, flap control mechanism
PA-31P	CA452-335A	Cabin door step
	CA452-412	Cabin door latch, nose landing gear, nose gear steering,
PA-31P-350	CA452-335A	Cabin door step
PA-31-300/325, PA-31-350, PA-31-350T1020	CA452-412	Cabin door latch, nose landing gear, nose gear steering, elevator trim
	CA452-412	Nose landing gear, nose gear steering mechanism
PA-31T/T1/T2	CA452-335A	Cabin door step, engine control
	CA452-412	Cabin door latch, nose landing gear
PA-31T3	CA452-860A	Cabin door snubber
	CA452-335A	Engine controls
	CA452-412	Nose landing gear, nose gear steering
PA-32-260/300/R-300	CA452-334A	Nose gear, main gear, control system
	CA452-335A	Landing gear door, flap control
	CA452-368	Main gear
	CA452-584	Landing gear door
PA-32-301/301T	CA452-860A	Nose gear
	CA452-334A	Nose gear
	CA452-335A	Aileron control, flap control
	CA452-336A	Aileron control, flap control
PA-32-301 XTC	CA452-860A	Nose gear
	CA452-334A	Nose gear
PA-32-301FT	CA452-335A	Aileron control, flap control
	CA452-336A	Aileron control
	CA452-860A	Nose gear
PA-32R-301/301T S/N 32R-8013001 thru 32R-8613005, 321001 thru 3213103, 32R-8029001 thru 32R-8629006 & 3229001 thru 3229003	CA452-334A	Nose gear, main gear
	CA452-335A	Landing gear door, aileron control, flap control
	CA452-336A	Aileron control, flap control
	CA452-368	Main gear
PA-32R-301/301T S/N 3246001 & up & 3257001 & up	CA452-334A	Main gear
	CA452-335A	Landing gear door, aileron control, flap control
	CA452-336A	Aileron control, flap control
	CA452-368	Main gear
PA-34-200	CA452-334A	Nose gear, aileron control, rudder trim, hydraulic system
	CA452-335A	Nose & main gear door actuation, flap control
	CA452-336A	Flap control
PA-34-200T	CA452-368	Main gear
	CA452-334A	Air conditioning, condenser & scoop, nose gear, hydraulic system rudder trim
	CA452-335A	Nose & main gear door actuation
	CA452-336A	Flap control
PA-34-220T S/N 34-8133001 thru 34-8633031, 3433001 & up, & 3448001 & up, PA-34-220T S/N 3447001 thru 3447029, & 3449001 & up	CA452-368	Main gear
	CA452-584	Aileron assembly, nose & main gear actuation
	CA452-334A	Nose gear, rudder trim hydraulic system, air conditioning condenser & scoop
	CA452-335A	Nose & main gear door actuation, aileron control, flap control
	CA452-336A	Flap control
PA-34RT-300/300T	CA452-334A	Nose gear, main gear, control system
	CA452-335A	Landing gear door, flap control
	CA452-336A	Flap control
	CA452-368	Main gear
PA-36-285/300/375	CA452-584	Landing gear door
	CA452-584	Elevator & elevator trim control
PA-42/PA42-720	CA452-335A	Cabin door step, engine controls
PA-42-1000	CA452-412	Cabin door latch, nose landing gear, nose gear steering, elevator control
PA-44-180/180T S/N 44-7995001 thru 44-8207020 & 4495001 thru 4495013	CA452-334A	Nose landing gear, main gear
	CA452-335A	Landing gear door, aileron control, flap control
	CA452-336A	Aileron control, flap control
	CA452-584	Landing gear door
PA-46-310P/350P S/N 46-8408001 thru 46-8608067, 4608001 thru 4608140 & 4622001 thru 4622200	CA452-334A	Nose gear, nose & main gear door, actuation
	CA452-335A	Nose & main gear door actuation
	CA452-412	Flap drive - electrical
	CA452-860A	Flap drive - electrical, flap drive & hydraulic
PA-46-350P S/N 4636001 & up	CA452-334A	Nose gear, nose & main gear door actuation
	CA452-335A	Main gear
	CA452-412	Flap Drive-Mechanical
PA-46R-350T S/N 4692001 & up	CA452-860A	Flap Drive-Mechanical
	CA452-334A	Nose gear, nose gear door actuation
PA-46-500TP S/N 4697002,4697340,4697399 & up with G1000	CA452-335A	Main gear door actuation
	CA452-412	Flap Drive-Mechanical
	CA452-860A	Flap Drive-Mechanical
	CA452-334A	Nose gear, nose & main gear door actuation
PA-46-500TP S/N4697001 & up without G1000	CA452-335A	Nose & main gear door actuation
	CA452-412	Flap Drive-Mechanical
	CA452-860A	Flap Drive-Mechanical
	CA452-584	Flap Drive-Mechanical

Piper Rod End Dimensions		
Part Number	Eye	Thread
CA452-334A	0.19	1/4-28
CA452-335A	0.19	1/4-28
CA452-336A	0.19	1/4-28
CA452-368	0.50	1/2-20
CA452-412	0.25	5/16-24
CA452-860A	0.25	1/4-28
CA452-584	0.19	

## Push-to-Unlock Controls

### Perfect for home built or custom projects!

- Quality stainless steel construction with bright anodized aluminum knobs
- High temperature Teflon lined conduit for smooth, consistent control (Cheap controls with poly liners will not tolerate engine temperatures)
- Heavy duty strength and long life
- Custom laser marking of the knobs is available
- Not for use on certified aircraft, flight controls or flight control trim tabs

**Round knob with solid wire end (MC6150 series):** Order part number MC6150-071XXLLL where **XX** is the knob color code and **LLL** is the length in inches.

- Round Knob - Red, black, blue and clear (silver) or Chrome plated bronze (designed to match vintage controls)
- Available in 4, 6, 8, 10, 12 foot and custom lengths
- May be trimmed to length

**Square knob with solid wire end (MC6160 series):** Order part number MC6160-071XXLLL where **XX** is the knob color code and **LLL** is the length in inches.

- Square black knob with a black or clear (silver) push-button
- Available in 6, 8, 12 foot and custom lengths
- May be trimmed to length
- Ideal for carburetor heat or alternate air

**Round knob with 10-32 threaded push rod end (MC6250 series):** Order part number MC6250-XXLLL where **XX** is the knob color code and **LLL** is the length in inches.

- Round Knob - Red, black, blue and clear (silver)
- Available in 4, 5, 6, 7, 8, 9, 10 foot and custom lengths

**Round knob with dual solid wire ends (MC6350 series):** Order part number MC6350-XXLLL where **XX** is the knob color code and **LLL** is the length in inches.

- Round Knob - Red, black, blue and clear (silver)
- Available in 4, 6, 8, 12 foot and custom lengths
- May be trimmed to length

### Specifications:

Travel (stroke): 3" minimum

Conduit (dual wire controls): 0.188 inch OD Teflon lined wound conduit

Conduit (single wire controls): 0.24 inch OD Teflon lined would conduit with a Teflon jacket

Max Work Loads: Pull: ~25 lbs; Push: ~10 lbs\*

Minimum Locking Force (measured at the knob): 15 lbs tensile, 10 lbs compression

Operating Temp: -65 to 450 deg F (knob/housing assembly: -65 to 250 deg F)

Panel Fitting: 7/16-20 thread

\*Max push load for solid wire end designs is dependent on wire diameter, length of trimmed wire (unsupported by conduit), geometry of wire rigging, and the actuator configuration.

### Custom Engraved Knobs:

Custom laser marking of the knobs is available for a small additional fee. Call for details.



Laser Marking  
Clean and durable!



MC6150 series

MC6160 series

MC6250 series

MC6350 series



Vintage Chrome also available!

Knob/Color Codes	
Code	Description
BB	Black powder coated aluminum
RR	Red powder coated aluminum
LL	Blue powder coated aluminum
CC	Clear (Silver) anodized aluminum
CB	Black powder coated aluminum with Clear (Silver) push button
HH	Chrome plated brass knob

## Turn-to-Lock Controls

### Perfect for homebuilt or custom projects!

These versatile controls are ideal for many applications. They feature a turn-to-lock mechanism that requires a quarter turn of the knob to lock or unlock the control.

- Quality stainless steel construction
- High temperature Teflon lined conduit for smooth, consistent control (Cheap controls with poly liners will not tolerate engine temperatures)
- Wire end - may be trimmed to length
- Not for use on certified aircraft, flight controls or flight control trim tabs

**Dual twisted wire ends:** P/N MCTL1014DLLL-K (LLL = length in inches, K = Knob style)

- 1/16" diameter 7X7 stainless steel
- ~ 30 lbs minimum locking force
- Includes two adjustable barrel stops to attach to Rotax choke arms
- Available in 4, 6, 8 and 12 ft lengths

**Dual solid wire ends:** P/N MCTL2254D072-K (K = Knob style)

- 0.071" diameter music wire
- ~ 55 lbs minimum locking force
- 6 foot length

**Single twisted wire end:** P/N MCTL1034-072-K (K = Knob style)

- 1/16" diameter 1X7 stainless steel
- ~ 30 lbs minimum locking force
- 6 foot length

**Single solid wire end:** P/N MCTL2254-072-K (K = Knob style)

- 0.071" diameter music wire
- ~ 55 lbs minimum locking force
- 6 foot length

### Specifications:

Travel (stroke): 4.0" maximum  
 Conduit (dual wire controls): 0.188 in OD Teflon lined  
 Conduit (single wire controls): 0.25 in OD Teflon lined, Teflon jacket  
 Max Work Loads: Pull: ~25 lbs; Push: ~10 lbs\*  
 Operating Temp: -65 to 450°F (knob/housing assembly: -65 to 250°F)  
 Panel Fitting: 1/2-20 UNF thread

\*Push loads apply to controls with solid wire only and depend on wire diameter, length of wire not supported by conduit, geometry of wire rigging, and the actuator configuration.

**Call us with your custom requirements!**



MCTL1014D series    MCTL1034 series  
 MCTL2254D series    MCTL2254 series

Knob Style Suffix (-K)	Knob Style
-B	Ball
-F	Fluted
-P	4-Prong
-T	Shortened T-Handle
-FA	Fluted, engraved "Airbox Lock"
-FH	Fluted, engraved "Cabin Heat Lock"
-FL	Fluted, engraved "Lock"
-PL	4-Prong, engraved "Lock"
-TC	T-Handle, engraved "Choke Lock"
-TL	T-Handle, engraved "Lock"
	No knob

## Universal Light-Weight Controls

- For use in non-certified aircraft applications such as carb heat, cabin heat, cabin air and defrost
- Keyed shaft prevents rotation and maintains knob alignment
- High quality brass and aluminum construction
- Teflon lined conduit for smooth, consistent control (Cheap controls with poly liners will not tolerate engine temperatures)
- Many knob styles available or provide your own knob with 10-32 thread
- Knobs are not included with the control, see page 30 for knob choices
- Available in 4,6,8,10 and 12 ft and custom lengths - Wire end - Easily trimmed to length
- Measured from panel fitting to end of conduit, wires extend at least 3" beyond conduit
- Available with optional creep resistant feature to prevent creep due to engine vibration



**Standard Control:** P/N MCU124-LLL (LLL = length in inches)

**Control with creep resistant feature:** P/N MCU224-LLL (LLL = length in inches)

### Specifications:

Travel (stroke): 3.75" maximum\*  
 Conduit: 0.188 inch OD Teflon lined  
 Max Work Loads: Pull: ~10 lbs; Push: ~5 lbs\*\*  
 Operating Temp: -65 to 450°F  
 Inner Wire: 0.061 inch solid wire  
 Screw thread for knob attachment: 10-32 X .3  
 Screw thread for instrument panel: 3/8-24 X .5

\*Installer must ensure maximum travel is not exceeded during installation and rigging of the control.

\*\*Maximum push load with 3-1/2" of wire extending from the conduit. Push loads depend on wire diameter, length of wire not supported by conduit, geometry of the rigging and the actuator configuration.





## Controls for Dual Carburetor 912/914 Series Rotax Engines

**Allows a neat, clean installation without a clunky splitter box**

- Quality metal construction
- High temperature Teflon lined conduit for smooth consistent control (Cheap controls with poly liners will not tolerate engine temperatures)
- Available in 4, 6, 8 and 12 foot and custom lengths - Easily trimmed to length
- Manufactured to the same quality standards as McFarlane's FAA-PMA parts
- Not for use on certified aircraft, or for flight controls or flight control trim tabs



## Throttle Controls for 912/914 Series Rotax Engines

- Includes throttle hardware kit P/N 6408 with lightweight throttle return spring (P/N 6818) to prevent throttle creep (see page 28)
- Inner Wire: Heavy duty 0.062 inch diameter, flexible 1/16 1X7 stainless steel twisted wire
- Conduit: 0.188 inch OD Teflon lined for smooth consistent control
- Design work load: 10 lbs (pull only)
- Operating temp: -65 to 450°F

**Panel Mount:** P/N MCT100DLLL (LLL = length in inches. Add a "-B" for a ball knob)

- Super smooth friction lock
- Travel (stroke): 3.75" max
- Typical locking force: 1 to 10 lbs (locking force dependent on friction lock engagement)
- Panel fitting: 1/2-20 UNF thread
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit.
- Two knob options (ball or standard barrel shape)



### Vernier-Assist™ Panel Mount:

P/N MCTV0005DLLL with knob or MCVA0005-30DLLL without knob (LLL = length in inches)

- Travel (stroke): 3.5" max
- Typical locking force: 1 to 10 lbs (locking force dependent on friction lock engagement)
- Panel fitting: 3/4-16 UNF X 0.875 inch thread
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit.
- See page 29 for additional details



**Quadrant Style:** P/N MCQ100DLLL (LLL = length in inches)

- Includes convenient dual conduit clamp P/N 6433-1 for simple quadrant mounting
- Viton boot to dampen vibration and seal out dust on the quadrant end
- Travel (stroke): 4" max
- Pushrod thread (quadrant end): 10-32 UNF X 0.65 inch thread
- Control length equals the conduit length, wires extend a minimum of 6 inches beyond the conduit.



Requires a knob with 1/4-20 thread. See page 30 for available knob options.

## Compression Tester Extension for Rotax Engines

**Part Number EXTENSION CT12 (12mm thread)**

- Wrench-free compression testing
- Allows for exhaust system and baffling clearance
- Makes compression testing easier



Manufactured by Baines Specialites LLC

Order online at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or Call 844-567-5855

**Choke Controls for 912/914 Series Rotax Engines**

- Includes two adjustable barrel stops P/N 6515 to attach to the carb choke arms (no swaging or soldering necessary)
- Inner Wire: Heavy duty 0.062 inch diameter, flexible 1/16 7X7 stainless steel twisted wire.
- Many knob styles available
- Conduit: 0.188 inch OD Teflon lined for smooth consistent control
- Design work load: 25 lbs (pull only)
- Operating temp: -65 to 450°F (knob housing assembly: -65 to 250°F)
- Control length is measured from panel fitting to end of conduit, wires extend 6 inches beyond conduit.



**Turn-to-Lock:** P/N MCTL1014LLLL-K (LLL = length in inches, K = Knob style - see page 30)  
 These controls feature a turn-to-lock mechanism that requires a quarter turn of the knob to lock or unlock the control at any position.

- Travel (stroke): 4.0" max
- Minimum locking force ~30 lbs
- Panel fitting: 1/2-20 UNF thread



**Non-Locking:** P/N MCC101DLLLL-K (LLL = length in inches, K = Knob style - see table below)  
 Internal elastomer seal to dampen vibration and provide a small amount of resistance. If your choke installation features a return spring, this control will return to the closed position when released.

- Travel (stroke): 3.5" max
- Panel fitting: 7/16-20 X 1.3" UNF thread



Knob Style Suffix (-K)	Knob Style
-RB	Round, Black
-RC	Round, Clear (silver)
-RL	Round, Blue
-RR	Round, Red
-RBC	Round, Black, engraved with "Choke"
-RCC	Round, Clear (silver), engraved with "Choke"
-RLC	Round, Blue, engraved with "Choke"
-RRC	Round, Red, engraved with "Choke"



**Throttle Return Spring**  
**Stop throttle creep!**



A common complaint about the Rotax 912/914 engines is that the throttle return springs are too strong. McFarlane now stocks an alternate spring so you can choose the one that fits your application the best. All McFarlane throttle controls for Rotax engines include the P/N 6822 spring. For use on non-certified aircraft.

Spring P/N	Relaxed Spring Length (max in)	Approx. Pre Load (lbf)	Spring Rate (lbf/in)
6822	1.6	1.5	2.1-2.7
Rotax Original	1.8 (approx.)	2.0	8-12 (approx.)

**Throttle Hardware Kit for Rotax Engines**  
**Dual Throttle Hardware Kit P/N 6408**

Parts also available separately. For use on non-certified aircraft

**Slip Fit Conduit Terminal P/N 6271**

- M6x1 x 1.00 inch thread for easy adjustment
- Three installation options - (1) Slip on the conduit, (2) Secure to conduit with provided set screws, (3) Epoxy to conduit

**Adjustable cable stops P/N 6270**

Prevents damage to the carburetor from excessive pilot force at the idle-cutoff position. If needed, install cable stop assembly on control wire(s). Locate stop so that when carburetor is at full idle, the cable stop is against part number 6271 conduit terminal.

**Alternate Carburetor Arm Return Spring P/N 6822**

- Less than half the strength of the original stock Rotax springs
- Prevents throttle "creep" due to excessive return spring force
- Requires 1 per carburetor (2 per engine)
- Installer must determine whether this spring is appropriate for their application.



**Kit contains:**

- 2 each 6271 Slip Fit Conduit Terminal Assemblies
- 2 each 6270 Adjustable Cable Stop Assemblies
- 2 each 6822 Spring
- 1 each Hex Wrench

**Conduit Terminal P/N 6424**

May be used as a slip fit conduit terminal, or swaged or epoxied onto the conduit. Fits 0.188" diameter conduit. OD is 0.25".

- 2 per control
- Stainless Steel



**Barrel Stop Assembly P/N 6515**

- Attach to the carburetor choke arm
- No swaging or soldering necessary
- Accepts 1/16" wire

For MCTL1014D series Turn-to-Lock Choke Controls and MCC101D series Non-Locking Choke Controls.



## Vernier-Assist™ Engine Controls

### Precision Control

New roller action vernier provides smooth jam-proof coarse and fine adjustment without a release button. (US Pat. No. 8,485,057)

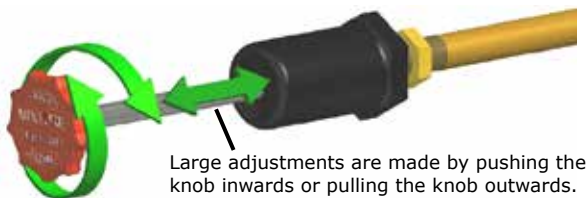
- Light weight and compact behind the dash
- Safer - Our roller action cannot jam!
- Not for use on certified aircraft

Call us with your unique requirements!



### MCMV Mixture Series

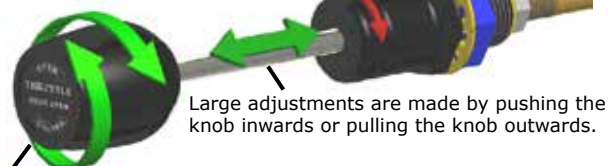
Vernier action with only a 3/8" panel hole!



### MCTV Throttle Series

Vernier and friction lock - The best of both!

Tension and vernier action is increased by tightening the tension nut.



Fine adjustments are made by rotating the knob clockwise or counterclockwise. The McFarlane Vernier-Assist™ controls use a patented roller action and do not use a positive lock thread engagement. For extreme conduit routing or heavy carburetor load installations, slight inward or outward assist pressure could be required during rotation.

### Alternate knobs available

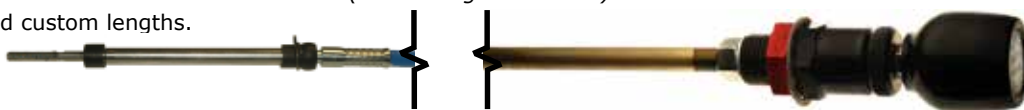
- All controls below are offered with or without a knob
- As as a propeller control use knob P/N 6730
- See page 30 for complete list of 1/4-20 thread knobs



### Throttle Control with 10-32 threaded end:

P/N MCTV1035-LLL with knob or MCVA1035-20-LLL without knob<sup>1</sup> (LLL = length in inches)

- Available in 3, 4, 5, 6, 7, 8 foot and custom lengths.
- Vernier and friction lock
- Requires a 3/4" panel hole



### Throttle Control with 1/4-28 threaded end:

P/N MCTV2035-LLL with knob or MCVA2035-20-LLL without knob<sup>1</sup> (LLL = length in inches)

- Available in 3, 4, 5, 6, 7, 8 foot and custom lengths.
- Vernier and friction lock
- Requires a 3/4" panel hole



### Throttle Control with 5/64" diameter 1X7 twisted stainless wire end:

P/N MCTV3035-LLL with knob or MCVA3035-20-LLL without knob<sup>1</sup> (LLL = length in inches)

- Available in 4, 6, 8, 12 foot and custom lengths.
- Vernier and friction lock
- Includes P/N 6515 Barrel Stop assembly. See page 28
- Requires a 3/4" panel hole



### Dual Throttle Control with 1/16" diameter 1X7 twisted stainless wire ends:

P/N MCTV0005DLLL with knob or MCVA0005-30DLLL without knob<sup>1</sup> (LLL = length in inches)

- Available in 4, 6, 8, 12 foot and custom lengths.
- Vernier and friction lock
- Includes P/N 6408 hardware kit. See page 28
- Perfect for Rotax 912/914 engines! See page 27
- Requires a 3/4" panel hole



### Mixture Control with 0.061" diameter solid wire end:

P/N MCMV0241-LLL with knob or MCVA0241-03-LLL without knob<sup>1</sup> (LLL = length in inches)

- Available in 4, 6, and 10 foot lengths.
- May be trimmed to length
- Compact behind the dash
- Requires a 3/8" panel hole



<sup>1</sup> Requires a knob with 1/4-20 thread. See page 30 for available knob options.



## Replacement Knobs for McFarlane Push-Pull Controls

Parts used on FAA-PMA approved controls are FAA-PMA approved. All other parts are non FAA-PMA approved.

### Knobs:

Part Number	Description	Thread	Color	Marking	Use Eligibility
6277B	Round powder coated aluminum	10-32	Black		MCC101D and MCU series controls
6277C	Round anodized aluminum	10-32	Clear (silver)		MCC101D and MCU series controls
6277L	Round powder coated aluminum	10-32	Blue		MCC101D and MCU series controls
6277R	Round powder coated aluminum	10-32	Red		MCC101D and MCU series controls
6307-BK	Round powder coated aluminum	10-32	Black		MCU series controls
6307-RD	Round powder coated aluminum	10-32	Red		MCU series controls
6417	T-Handle	1/4-20	Black		MCTL series controls
6417R	T-Handle	1/4-20	Red		MCTL series controls
6418	T-Handle	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6427	4 Prong	1/4-20	Black		MCTL series controls
6428	4 Prong	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6429	Fluted	1/4-20	Black		MCTL series controls
6430	Fluted	1/4-20	Black	"Lock" w/arrows	MCTL series controls
6432	Shortened T-Handle	1-4-20	Black		MCTL series controls
6489B	Square powder coated aluminum	10-32	Black		MCU series controls
6489C	Square anodized aluminum	10-32	Clear (silver)		MCU series controls
6489L	Square powder coated aluminum	10-32	Blue		MCU series controls
6489R	Square powder coated aluminum	10-32	Red		MCU series controls
6495-01B	Phenolic	10-32	Black		MCU series controls
6495-02B	Phenolic	10-32	Black		MCU series controls
6495-03B	Phenolic	10-32	Black		MCU series controls
6495-04B	Phenolic	10-32	Black		MCU series controls
6512B	Triangle powder coated aluminum	10-32	Black		MCU series controls
6512C	Triangle anodized aluminum	10-32	Clear (silver)		MCU series controls
6512L	Triangle powder coated aluminum	10-32	Blue		MCU series controls
6512R	Triangle powder coated aluminum	10-32	Red		MCU series controls
6570	Vernier-Assist Mixture	1/4-20	Red		Vernier-Assist Mixture series controls
6620	Vernier-Assist Throttle	1/4-20	Black		Vernier-Assist Throttle series controls
6660	T-Handle	1/4-20	Black	Choke Lock	MCTL series controls
6661	Fluted	1/4-20	Black	Cabin Heat Lock	MCTL series controls
6662	Fluted	1/4-20	Black	Airbox Lock	MCTL series controls
6730	Vernier-Assist Propeller	1/4-20	Blue		Vernier-Assist series controls
EC03	Black Knob	1/4-20	Black		Throttle controls
EC53	Black Ball Knob	1/4-20	Black		P/N MC12693-04 or MC455-139, MCT100D, MCTL and MCC101D series controls
EC125-1	2" Hemisphere	1/4-20	Black		
MC471-060	Round, Phenolic	10-32	Black		Piper Cabin Environment Controls
MC471-053	Round, Phenolic	10-32	Red		Piper Mixture Controls
MC471-052	Round, Phenolic	10-32	Ivory		Piper Cabin Environment and Carb Heat Controls
MC471-084	Round, Phenolic	10-32	Black		Piper Carb Heat Controls
MC571-131	Round, Phenolic	10-32	Clear (Silver)		Piper Cabin Environment and Carb Heat Controls

Knob Adapter Adapts the McFarlane throttle control to the early hemisphere style knobs. Inner thread size is 1/4-20. Outer thread size is 1/4-28.



See Knob Options table below for Color and Marking Codes

### Knob Options

Color Code	Primary Marking Code (Secondary)
B-Black	A-CABIN AIR only on 6277 series knobs (PULL ON)
C-Clear (Silver)	B-CARB HEAT only on 6489 series knobs (PULL ON)
L-Blue	C-CHOKE use on 6277 series knobs
R-Red	D-DEFROST only on 6277 series knobs (PULL ON)
	H-CABIN HEAT only on 6277 series knobs (PULL ON)
	P-PARK BRAKE only on 6277 series knobs (PULL ON)

Custom engraved knobs are available for a small additional fee. Call for details.

### Knob Jam Nuts and Lock Washers

Part Number	Description	Use Eligibility
EC33	1/4-20 Jam Nut	MCTL Series Controls Throttle controls using 1/4-20 threaded fittings (except p/n MC12693-04 & MC455-139)
MS35650-304	10-32 Jam Nut	MCC101D series controls
MS35333-40	1/4" Steel Lock Washer	MCTL and MCC101D Series Controls

### Decals

Part Number	Description	Use Eligibility
6289	Carb Heat Decal	Piper Carb Heat Controls

### Examples of marked knobs





## Replacement Parts for McFarlane Push-Pull Controls

**Parts used on FAA-PMA approved controls are FAA-PMA approved. All other parts are non FAA-PMA approved.**

**Boots: Fuel, oil and temperature resistant, keeps trash out of the control and dampens vibration.**

Part Number	Description	Use Eligibility
235	3/16" Pushrod Boot	Controls with a 3/16" pushrod
272	1/4" Pushrod Boot	Controls with a 1/4" pushrod
EC04	Swivel Boot	Controls employing a swivel joint

**Retaining Nuts and Lock Washers: The retaining nut threads onto the threaded section of the control on the back side of the instrument panel to secure the control.**

Part Number	Description	Use Eligibility
6060-8	1/2-20 Retaining Nut	Throttle controls using 1/2-20 threaded fittings
EC111	1/2" Lock Washer	Throttle controls using 1/2" threaded fittings
MS35333-44	Same as EC111	
6060-12	3/4-16 Retaining Nut	Throttle controls using 3/4-16 threaded fittings
EC112	3/4" Lock Washer	Throttle controls using 3/4" threaded fittings
MS35333-47	Same as EC112	
6196	3/8-24 Jam Nut	Cessna carb heat controls
6197	3/8" Lock Washer	Cessna carb heat controls
6133	7/16-20 Retaining Nut	Throttle controls using 7/16-20 threaded fittings
6260	7/16-20 Retaining Nut, Modified	MC6350 Dual Push-to-Unlock controls
EC38	7/16" Lock Washer	
EC61	3/8" Lock Washer	P/N MC12693-04 or MC455-139
EC62	3/8-24 Retaining Nut	P/N MC12693-04 or MC455-139
EC65	Throttle Spacer Bushing	P/N MC12693-04 or MC455-139
EC119	3/4-16 Retaining Nut Extended Nut	McFarlane vernier controls using 3/4-16 threaded fittings

**Threaded Wear Sleeve Nuts and Lock Washers: Threaded wear sleeves are used on many McFarlane controls to secure the control to the firewall and/or mounting brackets.**

Part Number	Description	Use Eligibility
EC38	7/16" Lock Washer	MC565-548 series controls
EC70	12M x 1.25 Jam Nut	MC565 series controls
EC72	12mm Lock Washer	MC565 series controls

### Spring

Part Number	Description	Use Eligibility
6822	Spring, Throttle	Alternate carburetor arm return spring for dual carburetor 912/914 series Rotax engines. Less than half the strength of the original stock Rotax springs. Prevents throttle "creep" due to excessive return spring force. Requires 1 per carburetor (2 per engine) See page 28

### Adjustable Friction Lock Service Kits

Part Number	Description	Use Eligibility
EC12SK	Friction Packing Service Kit	Throttle controls using a 1/2" friction nut
EC312SK	Friction Packing Service Kit	Throttle controls using a 9/16" friction nut

### Miscellaneous

Part Number	Description	Use Eligibility
6135	1/8" Ball Bearing, sold in 5 packs.	Replaces the ball bearing used in the locking mechanism for the MC6150, MC6250 and MC6350 series Push-to-Unlock controls.
6290-06-12K	Panel Hole Reducer 0.375 X 0.75	Includes a flat washer. Not for use on certified aircraft.
6290-08-12K	Panel Hole Reducer 0.50 X 0.75	Includes a flat washer. Not for use on certified aircraft.
6409	Allen Wrench	MCTL series controls
6415	Panel Bolt, Turn-to-Lock	MCTL series controls
6416	Pin, Turn-to-Lock	MCTL series controls
6420	Ferrule, Turn-to-Lock, Brass	MCTL series controls
6423	Ferrule, Turn-to-Lock, Nylon	MCTL series controls
6424	Conduit Terminal	Rotax Choke Controls
6433-1	Conduit Clamp	MCQ100 series controls
6515	Barrel Stop Assembly	MCC101D and MCTL series controls
EC02	1/2" Friction Adjust Wheel	Throttle controls using a 1/2" friction adjust wheel
EC89	Wedge Washer	One used on each side of the instrument panel to angle a control (approx 6.5°) to avoid interference behind the panel. 9/16" ID, sold in pairs.
EC98	9/16" Friction Adjust Wheel	Throttle controls using a 9/16" friction adjust wheel
M83248/1-006	O-ring	MCC101D series controls

### Conduit Clamps

**Standard (AN742 Series)**  
MIL-SPEC standard clamps.

**Extra Grip (6317 Series)**  
Similar to standard AN742 clamps, but include a detent groove for better grip on coiled wire conduit.

**Cushioned CJ Type MIL-Spec (MS21919WCJ Series)**  
Adel clamps for high temp application. (See page 44)



Part Number	Material	Approximate Conduit Diameter
6317-3	Steel	3/16"
6317-4	Steel	1/4"
6317D3	Aluminum	3/16"
6317D4	Aluminum	1/4"
AN742-3	Steel	3/16"
AN742-4	Steel	1/4"
AN742D3	Aluminum	3/16"
AN742D4	Aluminum	1/4"

McFarlane recommends using steel clamps near the engine or exhaust instead of aluminum clamps.



**Control Arms, Shafts and Bearing Housings for Cessna Carb Heat Boxes**

**Unique Elastomer Bearing Replaces Needle Bearing**

McFarlane's elastomer bearing is assembled with tension between the mating surfaces. This tension prevents micro-movement and its related metal erosion. The bearing contact area that transfers vibration motion from the heat box to the butterfly shaft is hundreds of times greater than that of the original needle bearing. This large surface effectively prevents localized metal erosion.

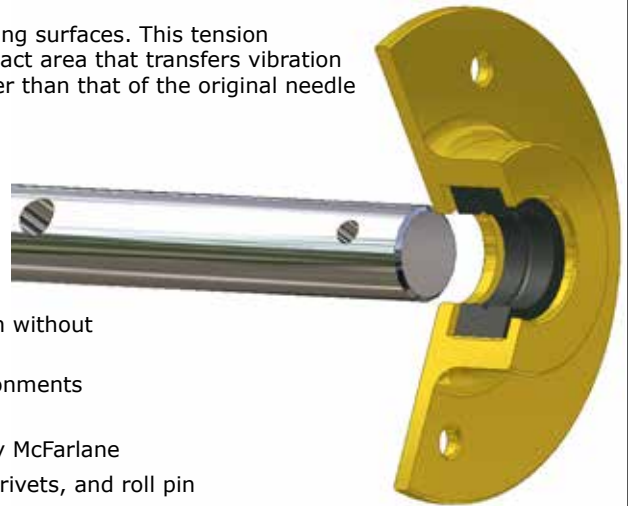
- Absorbs shaft and butterfly vibration
- Eliminates needle bearing failures
- Increases service life of **all** components
- Direct replacement for original parts

**Proven Design**

- Tested to over 700,000 cycles while exposed to avgas, heat and vibration without any change in performance
- Extremely rugged and wear resistant in high temperature and fuel environments

**Convenient**

- Discontinued part numbers through the factory are now manufactured by McFarlane
- Also available in kits containing the shaft, arm, bearing housings, monel rivets, and roll pin



Model	Serial Number	Shaft P/N	Arm P/N	Roll Pin P/N <sup>1</sup>	Rivet P/N	Bearing Housing P/N	Kit P/N
152	15279406 thru 15286033	MC0450068-2	MCS2280-8-00	NASM16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
A152	A1520735 thru A1521049	MC0450068-2	MCS2280-8-00	NASM16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
F152	F15201429 thru F15201980	MC0450068-2	MCS2280-8-00	NASM16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
FA152	FA1520337 thru FA1520425	MC0450068-2	MCS2280-8-00	NASM16562-17	MS20615-4M9	MC0750113-1	CCH-KT-1
172B,C	17247747 thru 17249544	MC0550180-16	<sup>2</sup>	<sup>2</sup>	MS20615-4M9	MC0750113-1	CCH-KT-2
172D,E,F,G	17249545 thru 17254892	MC0550180-28	<sup>2</sup>	<sup>2</sup>	MS20615-4M9	MC0750113-1	CCH-KT-3
F172D,E,F,G	F172-0001 thru F172-0319	MC0550180-28	<sup>2</sup>	<sup>2</sup>	MS20615-4M9	MC0750113-1	CCH-KT-3
172H,I,K,L,M,N,P	17254893 thru 17276673	MC0550180-16	<sup>2</sup>	<sup>2</sup>	MS20615-4M9	MC0750113-1	CCH-KT-2
F172H,K,L,M,N,P	F172-0320 thru F17202254	MC0550180-16	<sup>2</sup>	<sup>2</sup>	MS20615-4M9	MC0750113-1	CCH-KT-2
172Q	17275869 thru 17276516	MC0509068-6	MC0750111-19	NASM16562-17	MS20615-4M9	MC0750113-3	CCH-KT-4
P172	17257120 thru 17257188	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-1	N/A
175, 175A	55001 thru 56777	MC0750133-8	MC0750111-19	NASM16562-17	MS20615-4M9	MC0750113-3	CCH-KT-5
175B,C	17556778 thru 17557119	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-1	N/A
177	17700001 thru 17701164	Not Available	Not Available	Not Available	MS20615-4M9	MC0750113-3	N/A
177A,B	17701165 thru 17702752	MC1752078-4	MC0750111-19	NASM16562-16	MS20615-4M9	N/A	N/A
180 <sup>1</sup>	30000 thru 32150	MC0750112	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-7
180 <sup>1</sup> , 180A,B	32151 thru 50661	MC0750126-19	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-3	CCH-KT-8
180C,D,E,F,G,H,J,K	50662 thru 18053203	MC0750133-8	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
182, 182A,B,C,D,E,F,G,H	33000 thru 18268615	MC0750133-8	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
182J,K,L,M,N,P,Q,R	33000 thru 18268615	MC0750133-8	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
F182P,Q	F18200001 thru F18200169	MC0750133-8	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9
R182	R18200001 thru R18202041	Not Available	MCS2280-3-157	NASM16562-205	MS20615-4M9	MC0750113-1	N/A
FR182	FR18200001 thru FR18200070	Not Available	MCS2280-3-157	NASM16562-205	MS20615-4M9	MC0750113-1	N/A
185, 185A,B,C,D,E/A185E <sup>1</sup>	185-0001 thru 185-1300	MC0750173-3	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-10
A185E <sup>1</sup>	185-1301 thru 18501832	MC0750173-4	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-11
188	188-0001 thru 18802348	MC0750133-8	MC0750111-19	NASM16562-16	MS20615-4M9	MC0750113-1	CCH-KT-9

- <sup>1</sup> Partial model eligibility
- <sup>2</sup> The control arm is integral with the shaft.
- <sup>3</sup> Attach shaft to arm with the specified roll pin

**New Vibration Absorbing Bearings!**

**Costs less!**

**Lasts 10 times longer!**



**Avglas™ STC Repair Kit for Continental Carburetor Heat Boxes**

**New hardened stainless steel bearing for improved vibration resistance and longer life!**

FAA-PMA/STC Kits include:

- Replacement shaft, arm and detent spring assembly
- Bearings
- Bearing housing
- Locknut and washer
- Complete instructions

**Installation:**

*The butterfly (not included in kit) must be brazed or tack welded to the shaft during installation, and the bearing housings must be brazed, tack welded or flush riveted to the carburetor heat box. Avoid applying excessive heat during brazing or tack welding or the heat treated stainless steel bearing may be damaged. See the installation instructions for complete details.*

Engine Model	Continental Airbox P/N	Avglas P/N
C-75	50256	FG-100
C-85	50256	FG-100
C-90	50256	FG-100
O-200	628122, 653675, 641534	FG-100
O-300	530852, 531143	FG-105

Note: Avglas repair kits are only applicable to aircraft equipped with the specified continental airbox.

**Spring Service Kit P/N FG-SK-1**

Eligible for installation on P/N FG-100 and FG-105. Service kit contains (1) FG102S Spring and (2) MS20613-3-P3 Rivets



## SAFE-HEET Silicone Pad Aircraft Engine Heaters

### Easy to Use

- Permanent installation, thin flexible pad bonds to engine oil sump.
- STC or 337 form not required (log book entry only).
- No engine or airframe modifications required.
- Kit contains instructions and materials.
- Uses standard 110V AC.
- Can be used with a timer.

**Ground fault protected for improved safety!**



### Economical and Efficient

- Puts the heat where it is needed with little loss to the surrounding atmosphere.
- Heats the air inside the engine.
- Uses about 300 Watts. Costs about 3 cents per hour to operate.
- Less than 1 hour will generally warm the engine oil from subzero to a safe easy starting temperature.
- Entire engine will be warm in 2 to 3 hours.
- Metal foil heatsink is vulcanized to pad contact face for even heat transfer.
- Thermo-conductive adhesive for efficient heat transfer and lower surface temperatures.
- Reduces costly starter and engine abuse during cold weather starts.

### Safe

- UL recognized components. 100% thermo-fused element.
- External ground wire allows the engine and airframe to be grounded to the electrical outlet, reducing the risk of electrical shock in damp outdoor locations.
- Thermostatically controlled to maintain oil sump temperature less than 160°F.
- No flame or hot air to burn cowling or plastic parts.
- Reduces the risk of fires associated with cold starts.
- Ground Fault Circuit Interrupter (GFCI) included to reduce the risk of electrical shock and power surge damage.

#### Installation Tip:

SAFE-HEET engine heaters are installed with a two-part adhesive. The engine heater can be installed quickly and easily by using the 707 temperature controller at half power. At temperatures below 70°F the temperature controller must be used to ensure proper adhesive cure. Proper adhesive cure is essential to full service life of the heater.

## Eligibility for SAFE-HEET Engine Heaters

Model Series	P/N
<b>Teledyne Continental Aircraft Engines</b>	
A65, A75, C-75, C-85, C-90, O200	705
C-125, C-145, O-300, GO-300, E165, E185, E225, IO-360, TIO-360, LTSIO-360	700
O-470, IO-470, LIO-470, FSO-470, TSIO-470, GIO-470, IO-520, GTSIO-520, LTSIO-520, IO-550	720E
<b>Textron Lycoming Aircraft Engines</b>	
O-235, O-290, O-320 (EXCEPT O-320-H), IO-320, AIO-320, LIO-320, AEIO-320, O-360, HO-360, LO-360, IO-360, HIO-360, AIO-360, LIO-360, LHIO-360, AEIO-360, VO-360, IVO-360, TIO-360, TO-360, TIO-360, LTO-360, O-435, GO-435, VO-435, GO-480, GSO-480, IGSO-480	700
O-540, VO-540, TVO-540, IO-540, HIO-540, AEIO-540, IGO-540, IGSO-540, IVO-540, TIO-540, LTIO-540, TIVO-540, IO-720	720E
<b>Franklin Aircraft Engines</b>	
6A4-150, 6A4-165	700 or 720

#### Notes:

- 1 Engine oil sump configurations may vary for specific engine models. There is insufficient oil sump or oil tank area and clearances as specified in the SAFE-HEET Installation Instructions for use of the SAFE-HEET engine heaters on some engine-airframe installations.
- 2 For dry sump engines, use SAFE-HEET pads on the oil tank. The installer must evaluate as per the SAFE-HEET Installation Instructions the available oil sump or oil tank area below the oil level for use of SAFE-HEET pads on all engine models.
- 3 Where the oil sump area is limited, Model 700 may be used. Specifically; 182RG Aircraft are equipped with an O-540 engine. Eligibility shows to use model 720 SAFE-HEET. We have found that there is a limited area to install the 720 model, and customers with a 182RG should use model 700 SAFE-HEET.

Now with surge protection!



**SAFE-HEET P/N 700**  
4" X 4"



**SAFE-HEET P/N 720**  
4" X 7"

Complete installation instructions can be found on our website: [www.mcfarlaneaviation.com/safe-heet](http://www.mcfarlaneaviation.com/safe-heet)

Order online at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or Call 844-567-5855

## Ground Fault Circuit Interrupter (GFCI)

### Part Number 709SK

Included with every SAFE-HEET is a Ground Fault Circuit Interrupter. 709SK is used to protect the SAFE-HEET and engine from any ground fault (insulation failure) situation. The 600 Watt Ground Fault Circuit Interrupter will open the circuit if more than 5 mA is detected not returning through the GFCI. This prevents lethal electrical shocks to the operator and electrical arcing between the engine and the heat pad. Insulation failure of the heat pad could be caused by lightning, electrical surge or mechanical damage. In some situations arcing between the heat pad and the engine pan could cause oil leakage and subsequent engine failure. Each GFCI is individually tested.



**McFarlane's GFCI and Variable Temperature Controller may be used with other brand engine heaters.**

## Variable Temperature Controller

### Part Number 707

#### Makes installation fast and easy!

SAFE-HEET engine heaters can be plugged into the controller to speed and improve engine heater installation. The controller allows the SAFE-HEET engine heater pad to cure the special thermo conductive adhesive using its own heat energy at a reduced rate. SAFE-HEET engine heaters can be installed during much colder temperatures using the 707 Temperature Controller.



The variable temperature controller can also be used for continuous engine heating. Lower temperature settings help prevent the internal engine corrosion normally associated with leaving heaters on at full power. The variable temperature controller allows the user to adjust the heat to best fit each unique situation.

## Convenient SAFE-HEET Kits with Temperature Controller

### Part Numbers 700KT, 720KT

Kits include a SAFE-HEET engine heater and a temperature controller. Use the temperature controller to make installation fast and easy!

## The SwitchBox

### P/N SBC-1000

#### The easiest, safest and most economical way to remotely control your engine preheater!

Turn on your engine pre-heater from any phone, iPad or Android device and be ready to fly in any temperature.

- Works great with SAFE-HEET and most other electric engine preheaters
- Remotely control any electrical device (see specs below)
- Control two devices (eg., A SAFE-HEET and a coffee pot)
- Simple to use with a phone call, text, or free iPhone/iPad/Android/Web app
- Custom timer up to 18 hours
- Security list for blocking unknown callers
- Includes 5 ft extended antenna with magnetic base



The SwitchBox is controlled via phone by calling or texting a unique phone number that is provided. To turn on a device that is plugged into the SwitchBox, simply call the number, letting it ring to voicemail then hang up. The same procedure is used to turn the device off. To turn device on, off, or to check status via text message/SMS, text the phone number with the appropriate commands.

The SwitchBox comes with an activation code for a T-Mobile account and phone number. SIM cards from other carriers may also be used. The account initially has a \$3.00 credit to be used for phone calls (free if you hang up as soon as voice mail picks up) and texts/SMS (\$.10 each). The balance of the pre-paid account expires every month and will need to be replenished.

#### Specifications:

- 120V/60hz max power, handling 1500Watts/15Amps total
- T-Mobile preactivated
- FF and CE certified



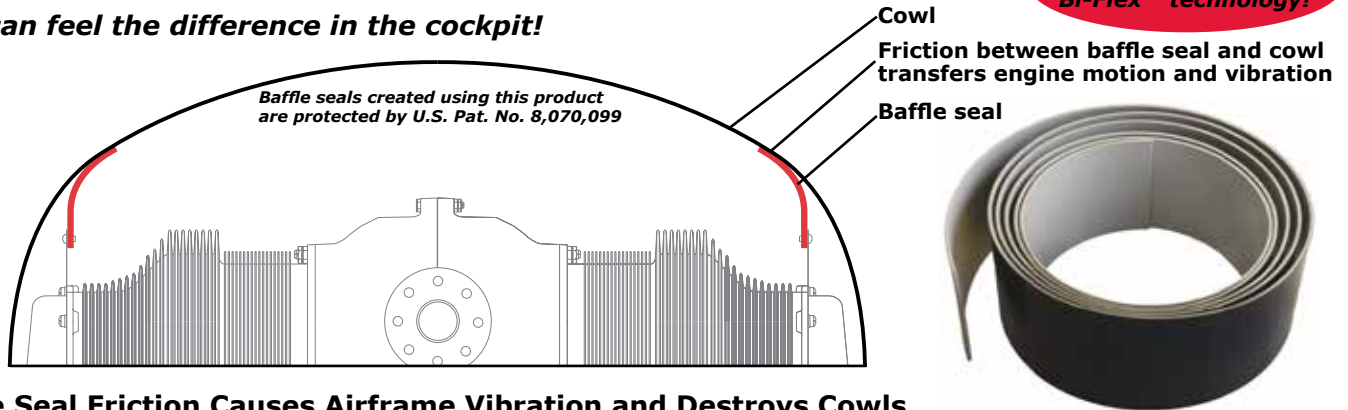


## Cowl Saver™ Baffle Seal Material

Reduce Airframe Vibration, Stop Cowl and Firewall Cracks

You can feel the difference in the cockpit!

Now also available with Bi-Flex™ technology!



### Baffle Seal Friction Causes Airframe Vibration and Destroys Cowls

Typical silicone rubber baffle seals have a coefficient of friction among the highest of any known material. This friction transfers engine vibration into your cowl and firewall causing fastener fretting, fatigue, cracking, chaffing and airframe vibration.

### Cowl Saver™ Baffle Seal Material has 30 Times Less Friction!

- One side is silicone and the other is a low friction Teflon surface unique to the patented Cowl Saver™ baffle seal material.
- Cowl Saver™ dramatically reduces the friction between your cowl and baffle seals.
- Half of the engine vibration you feel in the cockpit is from baffle seal transfer.

### Low Friction Saves You Money!

- Reduces transfer of vibration to the engine cowl and airframe
- Minimizes cowl chaffing and erosion from baffle seals
- Extends baffle seal life
- Reduces expensive cowl and cowl fastener repairs
- Reduces fatigue and cracking in baffles, cowl skins and firewall
- The cowling even goes on easier!

### Unbeatable Performance

- Ideal balance of flexibility and stiffness
- Fiberglass reinforced
- Meets industry standard AMS3320G
- McFarlane quality you can count on!

### Bi-Flex™ Technology

The three inch rolls of Cowl Saver™ material are now also available with a precision laser engraved flex pattern to ensure an optimum flexibility/stiffness combination for maximum cooling and minimum friction. The flex pattern covers a little less than half of the width of the material.



See page 36 for more details.

### Convenient Baffle Seal Repair Kits

#### Kit P/N BAFFLE-KIT-1

Qty	P/N	Description
1	CS085X3X108G	3 in X 108 in (9ft) Cowl Saver™
1	RIVET-KIT-2	Baffle Seal Retainer Strips
10	6036-012	Baffle Seal Rivet Kit

Best for small aircraft with straight baffle seals

#### Kit P/N BAFFLE-KIT-1BF with Bi-Flex™

1	CS085X3X108GBF	3 in X 108 in (9ft) Cowl Saver™ with Bi-Flex™
1	RIVET-KIT-2	Baffle Seal Retainer Strips
10	6036-012	Baffle Seal Rivet Kit

Best for small aircraft with straight baffle seals

#### Kit P/N BAFFLE-KIT-2

1	CS085X18X36G	18 in X 36 in (3ft) Cowl Saver™
2	RIVET-KIT-2	Baffle Seal Retainer Strips
20	6036-012	Baffle Seal Rivet Kit

Recommended for most aircraft. Allows fabrication of straight, curved or irregular shaped baffle seals.

#### Kit P/N BAFFLE-KIT-3

1	CS085X3X156G	3 in X 156 in (13ft) Cowl Saver™
1	RIVET-KIT-2	Baffle Seal Retainer Strips
14	6036-012	Baffle Seal Rivet Kit

Best for aircraft with straight baffle seals

#### Kit P/N BAFFLE-KIT-3BF with Bi-Flex™

1	CS085X3X156GBF	3 in X 156 in (13ft) Cowl Saver™ with Bi-Flex™
1	RIVET-KIT-2	Baffle Seal Retainer Strips
14	6036-012	Baffle Seal Rivet Kit

Best for aircraft with straight baffle seals

### Cowl Saver™ Baffle Seal Material

Part Number	Thickness	Size
CS085X3G	.085 in	3 in wide, sold by the foot
CS085X18X36G	.085 in	18 in X 36 in (3 ft)
CS085X36X36G	.085 in	36 in X 36 in (3 ft)
CS085X3X108G	.085 in	3 in X 108 in (9 ft)
CS085X3X108GBF	.085 in	3 in X 108 in (9 ft) with Bi-Flex™
CS085X3X156G	.085 in	3 in X 156 in (13 ft)
CS085X3X156GBF	.085 in	3 in X 156 in (13 ft) with Bi-Flex™

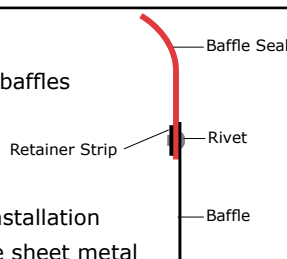
Color: Black/Gray

### Baffle Seal Retainer Strip

Part Number 6036-012

Use as a retainer for riveting baffle seals to baffles

- .050 inch thick 6061-T6 aluminum
- Corrosion resistant
- Economical
- 7/16" X 12" strips - cut to length during installation
- Clamps better than washers or light gauge sheet metal



### Baffle Seal Rivet Kit

Part Number RIVET-KIT-2

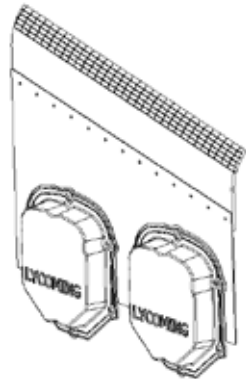
- Soft rivets that won't deform baffles
- Several sizes for various baffle thicknesses and hole sizes

Qty	Rivet P/N
100	MS20470A3-5
100	MS20470A4-5
100	MS20470A4-6

Rivets included are approximate



**Customizable Flexibility for Optimal Cooling**



Cowl Saver™ engine baffle seal material can be customized to be extremely flexible for a perfect seal where it contacts the cowl and rigid elsewhere to prevent the seal from blowing past the cowl contact line. With other baffle seal materials, you must compromise

and make a choice: either use material that is rigid enough to not blow past the cowl contact line, or use a material that is flexible enough to blend to the intricate contours of the engine cowl to ensure a good seal. Either choice results in less than optimal engine cooling. With Cowl Saver™ baffle seal material you no longer have to compromise.

**Flexibility can be customized to only the areas of the baffle seal that you want it.**

Cowl Saver™ material has a layer of black Teflon (clear for older material) bonded to a flexible reinforced silicone rubber base. In addition to low friction, the Teflon also gives the laminate the solid stiffness needed near the engine baffle to prevent the seal from blowing past the cowl contact line. This extra stiffness, however, is not always desirable in the area that the material seals against the contours of the cowl.

Where extra flexibility is needed to make a good air seal, the black Teflon layer can simply be scored in a cross hatch, diagonal or parallel line pattern.

With care, a normal razor blade may be used, or McFarlane **P/N TOOL120** may be used for more efficiency and greater control of cutting depth. Alternatively for relatively straight sections, three inch wide rolls of Cowl Saver™ material with **Bi-Flex™** technology may be used.

For Bi-Flex™ Material with a precision laser engraved flex pattern, see page 35.



**3 inch roll with Bi-Flex™ P/N CS085X3X108GBF**

The extreme bond of the Teflon layer is not affected by the scoring. The score line spacing and the extent of the score pattern control the amount of flexibility. The score line orientation and the type of pattern control the direction(s) of flexibility. Score patterns as small as 1/8 inch form little islands of friction free Teflon that has shown good durability while providing the extreme flexibility of soft silicone rubber. This customization can be performed when doing a new baffle seal installation or to perfect the fit and seal of an existing installation. As long as care is taken to just score the Teflon layer and as little of the silicone as possible (do not cut the fiberglass reinforcing layer), the material will still meet the original AMS3306 specification to which it was certified.

**Cowl Saver™ Scoring Tool**  
Customize Your Baffle Seal Flexibility for Optimal Cooling!  
P/N TOOL120



*Only for use on the Teflon side of Cowl Saver™ baffle seal material*

Customize Cowl Saver™ engine baffle seal material to be extremely flexible for a perfect seal where it contacts the cowl and rigid elsewhere to prevent the seal from blowing past the cowl contact line.

This unique tool has 3 circular razor blades spaced 0.16" apart and makes it fast and easy to score the stiffer outer layer of the Cowl Saver™ material where more flexibility is required. The spacers also precisely control the depth of the cuts to help prevent damage to the material.

- You control the amount of flexibility.
- Use on a new baffle seal installation or to perfect the fit and seal of an existing installation.
- Material still meets the original AMS3306 specification to which it was certified as long as the fiberglass reinforcing layer has not been cut.
- Replacement blade kit also available (P/N TOOL120-BKT)



**Baffle Seals and Cowl Saver™ Kits for Cessna 172Q, R and S Models**

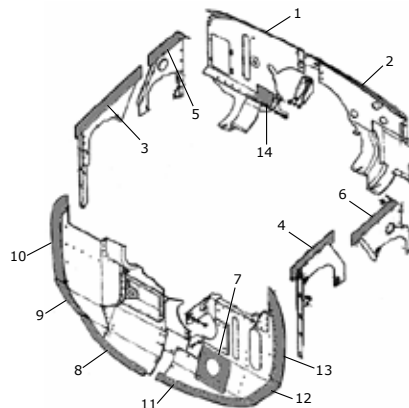
**Reduce airframe vibration and stop cowl and firewall cracks with a complete Cowl Saver™ kit!**

U.S. Patent No. 8,070,099

- Cut to fit. Saves time.
- Low friction for reduced transfer of engine vibration
- Kit includes all required baffle seals, MS20470A4-5 soft rivets, and McFarlane P/N 6036-012 retainer strips.
- Individual baffle seals also available

**FAA-PMA Approved!**

**Save!**



Part Number	Idx	Aircraft	Location
BSC-KT-1		172R, S	Baffle Seal Kit
MC0509069-4	1	172R, S	RT AFT
MC0509070-4	2	172Q,R,S	LT AFT
MC0509071-2	3	172Q,R,S	CYL 1 RT FWD
MC0509072-4	4	172Q,R,S	CYL 2 LT FWD
MC0509073-6	5	172R,S	CYL 3 RT AFT
MC0509074-2	6	172Q,R,S	CYL 4 LT AFT
MC0509079-2	7	172R,S	AIR INTAKE FOR HEAT MUFF
MC0555250-17	8	172R,S	FWD RT LWR
MC0555250-18	9	172R,S	FWD RT MID
MC0555250-19	10	172R,S	FWD RT UPR
MC0555259-25	11	172R,S	FWD LT LWR
MC0555259-26	12	172R,S	FWD LT MID
MC0555259-27	13	172R,S	FWD LT UPR
MC2455076-1	14	172R,S	RT AFT SUB PANEL

**Now with Bi-Flex™ Technology!**

Precision laser engraved flex pattern ensures optimum flexibility/stiffness combination for maximum cooling and minimum friction.



**New!**

## Complete Engine Baffle Kits

Keep your engine cool with new baffle kits!

Airforms is the premier manufacturer of FAA-PMA replacement baffle kits for Cessna, Piper and the Beechcraft Baron.

- 6061-T6 aluminum with black high temperature fiberglass reinforced silicone seals pre-installed (orange or blue seals available as special order for an extra charge)
- Bare aluminum or gray powder coat finish
- Individually interchangeable with factory baffles

### Many Improvements:

- Stainless steel brackets where needed
- Hard rivet construction
- 1/2" back plates to secure seals
- Improved fit

See eligibility in the Airforms section on pages 185-194



## PROP GUARD

Part Number FP1001 for two blades (65")

Part Number CS1002 for three blades (92")

Anti-abrasion Boot for your metal propeller!

It is more economical to protect your propeller blades with PROP GUARD than to continually file, dress, paint and balance your blades until they have to be replaced.

Water, sand, rock, and airborne abrasives are constantly eroding your propeller. As the name suggests, this product can eliminate this destructive process. Virtually all propeller blade failures start as leading edge nicks.

- PROP GUARD is a .014" thick clear anti-abrasion boot that is bonded to the leading edge of the propeller
- PROP GUARD is made from a special high strength heat processed polymer engineered for centrifugal loads. It's NOT just a piece of tape!
- Easy to install (approximately 20 minutes installation time)
- No performance loss
- Fully tested
- Repairable
- FAA-PMA/STC approved (minor alteration, no form 337 required)

### Kit contains:

PROP GUARD boot for a two or three bladed propeller, adhesion accelerator, placard, lint-free cotton cloth, complete installation instructions and a copy of the STC.

## Repair Kits

Part Number PG-KT-R12 for 12 inches of material

Part Number PG-KT-R24 for 24 inches of material

Two new convenient repair kits are also now available to allow repair of existing PROP GUARD installations. Each repair kit includes a short length of PROP GUARD boot material, adhesion accelerator, lint-free cotton cloth, a spreader, and complete installation instructions.

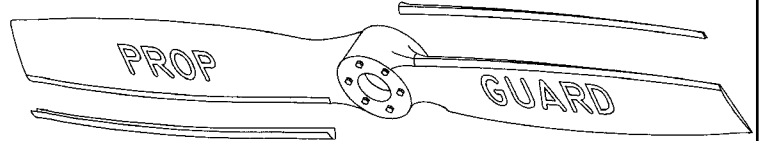
## PROP GUARD Installation Tool

Saves time and makes installation easier!

Part Number TOOL125



This rubber coated roller makes working air bubbles out during installation easier than using the spatula included with the PROP GUARD kits. The rubber conforms to the shape of the propeller, and the rolling action allows you to press harder to eliminate small air bubbles. It is recommended for customers who may be installing more than one PROP GUARD or those who just want to make the job faster and easier.



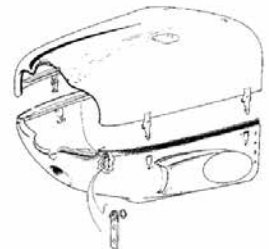
## Cowl Attach Plates and Bushings for Piper Aircraft

Part Numbers MC69790-00 Bushing with MC 484-840 Retaining Ring

MC69791-000 Plate (Includes Bushing and Retaining Ring)

New bushing material. Stronger and Tougher!

- High temperature stainless steel plates and retaining ring.
- Bushing is made from high temperature/high strength thermoplastic that lasts longer than original Nylon and Teflon bushing materials!
- Save up to 50%
- Each component sold separately



Model Series	Serial Numbers	Model Series	Serial Numbers
PA-28-150	28-1761 and On	PA-28R-201	All
PA-28-160	28-1761 and On	PA-28RT-201	All
PA-28-180	28-1761 and On	PA-32-260	All
PA-28-181	28-7690001 and On	PA-32-300	All
PA-28-235	28-10003 and On	PA-32R-300	All
PA-28R-180	28-30005 and On	PA-32RT-300	All
PA-28R-200	28-35001 and On		



Retaining Ring

Bushing

Plate with Bushing and Retaining Ring

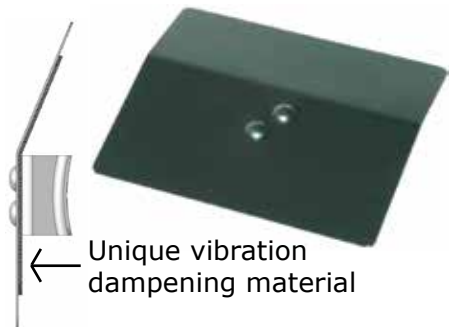


**Intake Hose Heat Deflector Shields for Cessna Aircraft with Teledyne Continental Six Cylinder Engines**

**Improved Design!**

**Part Number MC0750143-1**

- Vibration dampened to prevent cracking
- Polished stainless steel for better heat control
- Much better and 1/2 the price!



Aircraft Model	Serial Number
175, A,B,C	56083 thru 17557119
P172	P17257120 thru P17257188
180, A,B,C,D,E,F,G,H,J,K	30000 thru 18053203
182, A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R	33000 thru 18268615
F182P,Q	F18200001 thru F18200169
A182J,K,L,M,N	A182-0001 thru A182-0148
T182	18267716 thru 18268615
185, A,B,C,D,E/A185E,F	185-0001 thru 18504448
188, A,B/A188, A,B	188-0001 thru 18803968T
T188C	T18803297T thru T18803968T
210-5 (205), 210-5A (205A)	205-0001 thru 205-0577
206	206-0001 thru 206-0275
U206, A,B,C,D,E,F,G	U206-0276 thru U20607020
P206, A,B,C,D,E/TP206A,B,C,D,E	P206-0001 thru P20600647
TU206A,B,C,D,E,F,G	U206-0438 thru U20607020
207, A/T207, A	20700001 thru 20700788
210, A,B,C,D,E,F,G,H,J,K,L,M,N,R T210K,L,M,N,R	57001 thru 21065009
P210N,R	P21000001 thru P21000874
T210G,H,J	T210-0198 thru T210-0454

**■** Partial model eligibility  
 McFarlane P/N MC0750143-1 replaces Cessna Part Number 0750121, 0750121-1, 0750121-2, 0750143-2 and 0750143-3.

**Intercylinder Baffles for Cessna Aircraft with Teledyne Continental Six Cylinder Engines**

- Replace worn baffles to maintain optimum engine cooling
- Maximum engine life
- Australian PMA approved



**SAVE!**

Manufactured by Aircraft Engineering & Maintenance Services

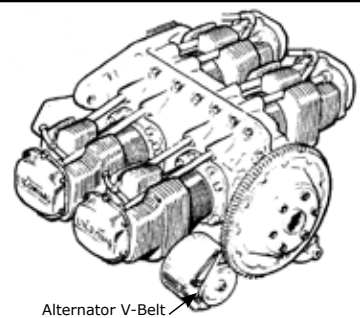
Model	Serial Number	ASP135-103	ASP135-104	ASP833-105	ASP834-101	ASP834-102
180	32151 thru 32661	2	2	4		
180A,B,C,D,E	32662 thru 18051183	2	1	4		
180F,G,H,J,K	18051184 thru 18018053203	3	2	4		
182	33000 thru 33482	2	2	4		
182A,B,C,D,E	33483 thru 18254423	2	1	4		
182F,G,H,J,K,L,M,N,P	18254424 thru 18262465	1	1	4		
182P,Q,R	18262466 thru 18268615	2	2	4		
A185F	All			4		
188, 188A,B	188-0001 thru 18802348	2	2	4		
A188, A188A,B	188-0001 thru 18803968T	2	2	4		
T188C	T18803297T thru T18803698T	2	2	4		
210-5 (205), 210-5A (205A)	205-0001 thru 205-0577	1	2	4		
206, U206, U206A,B,C,D,E,F,G	206-0001 thru U20607020	2	2	4		
P206, P206A,B,C,D,E	P206-0001 thru P20600647	2	2	4		
207, 207A	20700001 thru 20700788	2	2	4		
210, 210A,B,C,D,E,F,G,H,J,K,L,M,N,R	57001 thru 21065009	2	2	4		
310, 310A,B,C,D,E,F,G,H,I,J,K,L,N	35000 thru 310N0198	2	2	4		
T310R	All			4		
320, 320A,B,C	320-0001 thru 320C0073	2		4		
320D,E,F	320D0001 thru 320F0045			4	6	2
335	335-0001 thru 335-0065			4	6	2
340, 340A	340-0001 thru 340A1817			4	6	2
401, 401A,B	401-0001 thru 401B0300			4	6	2
402, 402A,B,C	402-0001 and On			4	6	2
414, 414A	414-0001 and On			4	6	2

**■** Partial model eligibility  
 Part number ASP135-103 replaces Cessna part number 0750135-3  
 Part number ASP135-104 replaces Cessna part number 0750135-4 and 0750135-8  
 Part number ASP833-105 replaces Cessna part number 0750135-1 and 0851833-1  
 Part number ASP834-101 replaces Cessna part number 0851834-1  
 Part number ASP834-102 replaces Cessna part number 0851834-2

**Alternator V-Belt for Piper Aircraft**  
**Finally an approved belt at an affordable price!**

**Part Number MC73965-015**

- High quality manufacture
- Direct replacement for P/Ns 10069-806, 452-541, 564-852, 73965-015 and 73965-15
- Save \$\$



Alternator V-Belt

Model	Serial Number
PA-28-151	All
PA-28-161	28-7716001 thru 28-8616057
PA-28-161	2816001 thru 2816119
PA-28-181	28-7690001 thru 28-8690062
PA-28-181	2890001 thru 2890231
PA-28-236	28-7911001 thru 28-8611008
PA-28R-201	2837001 thru 2837061
PA-28R-201	28R-7737002 thru 28R-7837317
PA-28R-201T	2803001 thru 2803012
PA-28R-201T	28R-7703001 thru 28R-7803373
PA-28RT-201	28R-7918001 thru 28R-8218026
PA-28RT-201T	2831001 thru 2831038
PA-28RT-201T	28R-7931001 thru 28R-8631005
PA-32RT-300	32R-7885002 thru 32R-7985106
PA-32RT-300T	32R-7787001 thru 32R-7987126





## AERO-Classics Oil Coolers

### FAA-PMA Approved

- Direct replacements for most oil coolers
- Ideal for many certified and experimental aircraft
- FAA 8130-3 tags included with each oil cooler

*The best for  
a lot less!*



Replaces Stewart Warner P/N 8406R

### Outstanding Performance

In side-by-side comparative performance tests, AERO-Classics 7 and 9 plate oil coolers outclassed competitive models, offering better overall cooling and lower weight.

### Direct Replacements for Stewart Warner Oil Coolers

- HE Series High Efficiency Coolers
- FAA-PMA direct replacement for Stewart Warner (Meggitt) oil coolers
- Match or outperform the original
- Save \$\$

Don't be fooled by Stewart Warner oil coolers available from many aviation suppliers. Even though its the same part number and manufacturer, if it didn't come from the aircraft manufacturer or say FAA-PMA, then it is not FAA approved.

### Highest Quality, Best Value

- Corrosion Protection per MIL-C-5541, Class 1A
- Optimized internal oil flow design
- Low cost
- In-stock for fast delivery
- Pressure tested to 400 psig
- Light-weight
- Two year warranty

## Engine Mount Oil Coolers for Continental Engines



Front Mount, 12 Bolt Non  
Congealing Oil Cooler  
P/N 8000307



Rear Mount  
Oil Cooler  
P/N 8000464



Front Mount,  
8 Bolt Oil Cooler  
P/N 8000934



P/N 654117



P/N 652079



P/N 649964

Part Number	Description	FAA Approved Replacement for	Eligible Engine Models	Gaskets (not included with oil cooler)
<b>Front-Mount, 8 Bolt Oil Coolers</b>				
8000925		Continental 627392, Niagara 20585A	O-470-A,B,E,G,J,K,L,M,P,R,S,U IO-470- C,D,E,F,G,H,J,K,L,M,N,P,R,S,U,V	654117 649964 (plate)
8000934		Continental 646880, Niagara 20591A	IO-360-A,AB,C,CB,D,DB,G,GB,H,HB,HB9,J,JB,K,KB,ES TSIO-360-A,AB,B,C,CB,D,DB,E,F,GB,H,JB,KB,LB,MB L/TSIO-360-E,EB,F,FB,GB,H,HB,JB,KB,LB,MB,RB	654117, 649964 (plate)
<b>Front-Mount, 12 Bolt Congealing Oil Coolers</b>				
8000683	Non-7th Stud	Continental 626189, Niagara 20573A	O-470-B,J,K,L,M,R,IO-470-D,F,L,M,S IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, O-550-D	654553 649964 (plate)
8000687	7th Stud	Continental 652671, Niagara 20440A	IO-520-A,D,E,F,J,K,L, L/TSIO-520-AE, IO-550-D	654555, 649964 (plate)
<b>Front-Mount, 12 Bolt Non Congealing Oil Coolers</b>				
8000545	10" Universal 7th Stud	Continental 639171, Niagara 20795A Continental 654595, Niagara 20617A	O-470-R,S,U, IO-520-A,D,E,F,J,K,L TSIO-520-C,G,H,M,P,R,T,AF,CE, IO550-D,E,F,L	654554 652079 (plate)
8000319	11" Universal 7th Stud	Continental 639151, Niagara 20446A	O-470-F,K,L,R, IO-470-L, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000307	11 7th Stud	Continental 654593, Niagara 20618A	IO-470-L, IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
8000531	11.5" Universal 7th Stud	Continental 639152, Niagara 20623A	O-470-M, IO-470-D,U,V, IO-520-A,D,E,F,J,K,L	654560, 652079 (plate)
8000127	11.5" 7th Stud	Continental 652759, Niagara 20448A	IO-520-A,D,E,F,J,K,L	654554, 652079 (plate)
<b>Rear-Mount Oil Coolers</b>				
8000440	Valve P/N 639305 small	Continental 654580, Niagara 10279A	TSIO-520-BE,E,J,L,N,VB,WB,EB,JB,LB,NB, 550-E, IO-550-B,C,G	G-KT-1
8000464	Valve P/N 639305 small	Continental 646685, Niagara 10196A	GTSIO-520-C,D,F,H,K,L,M,N	G-KT-2
8000953	Valve P/N 649369 large	Continental 654585, Niagara 10281A	IO-550-G,N,P,R, IO-F550-G,N,P,R, TSIO-550-G	G-KT-3
8000960	Valve P/N 639305 small	Continental 654572, Niagara 10278A	IO-520-B,BA,BB,C,CB,M,MB, TSIO-520-B,D,K,UB, IO-550-A,B,C	G-KT-4
8001213	Valve P/N 649369 large	Continental 655090, Niagara 10280A	IO-550-B,C, IOF-550-B,C, TSIO-520-B	G-KT-5

Continued on next page

FAA-PMA Approved

## Remote Mount Oil Coolers (Typically used with Lycoming Engines)



Bar and Plate P/N 8000356



7 row drawn cup P/N 8000075



HE Series P/N 8001646



HE Series P/N 8001599

**Important: To confirm FAA approved eligibility, verify that your current (or originally) installed oil cooler P/N is listed in the "FAA Approved Replacement for" column for your aircraft model.**

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
<b>AEROSTAR</b>			
601, 601P, 602P, 700P	Niagara 20015A, 20044A, Harrison 8541336	bar and plate	8000357
<b>Beechcraft</b>			
19, C23, A24R, C24R	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
19A, B19, A23, A23A, A24, A24R, B23, C23	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
A23-24	Beech 169-910002-23, 169-380001-1, Stewart Warner 8406R	HE Series	8001602
	Beech 169-380033, Stewart Warner 8432S	HE Series	8001694
<b>Brittan-Norman (Pilatus)</b>			
BN-2	B-N 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
	B-N 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27	B-N 354501026, Stewart Warner 8406R	HE Series	8001602
BN-2B	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN-2T-4R	B-N 354501026, Stewart Warner 8406R	HE Series	8001602
<b>Cessna</b>			
150, 152, A152	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
162	Cessna and Stewart Warner 10578R	HE Series	8001535
170	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
172	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
	Cessna and Stewart Warner 8406R	HE Series	8001733
175, 177	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
177RG	Cessna and Stewart Warner 8406R	HE Series	8001733
172N	Cessna and Stewart Warner 10599R	HE Series	8001599
172R,S	Cessna and Stewart Warner 10877R	HE Series	8001588
182	Cessna and Stewart Warner 10610R	HE Series	8001646
R182, TR182	Cessna and Stewart Warner 10614R	HE Series	8001643
	Cessna and Stewart Warner 10610R	HE Series	8001646
T182, TR182, T182T	Cessna and Stewart Warner 10891A	HE Series	8001718
210-5 (205), 210-5A (205A)	Cessna and Stewart Warner 10634R	HE Series	8001652
206, 206H, P206, P206A,B,C,D,E, U206, U206A,B,C,D,E,F,G	Cessna and Stewart Warner 10880A	HE Series	8001713
T206H, TP206A,B,C,D,E, TU206A,B,C,D,E,F,G	Cessna and Stewart Warner 10865B	HE Series	8001701
210, 210A thru 210R, P210N,R, T210F thru T210R	Cessna and Stewart Warner 10634R	HE Series	8001652
<b>Commander, Twin Commander Aircraft LLC</b>			
114, 114A, 500S	Commander 630146-509, Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
<b>Cub Crafters Inc.</b>			
CC18-180, CC18-180A	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
<b>Grumman</b>			
AA-5 (Tiger)	5505002-2, Stewart Warner 10568R	HE Series	8001640
AA-5A Series (Cheetah)	5505002-1, Stewart Warner 10578R	HE Series	8001535
<b>Maule</b>			
M-5-180C, M-5-235C, M-6-180, M-6-235	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
<b>Mooney</b>			
MC20A, MC20B	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
M20C, M20D	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
	Mooney 620016, 620052, Stewart Warner 8432R	HE Series	8001689
M20E, M20F	Mooney 6200160501, Stewart Warner 8432S	HE Series	8001694
M20G	Mooney 620036, Stewart Warner 8406R	HE Series	8001602
M20J	Mooney 620016, 620052, Stewart Warner 8432R	HE Series	8001689
<b>Piper</b>			
PA-18,18A	Harrison 8521940	bar and plate	8000328
PA-18, -18A, -18S, -18 "105" Special, -18 "125"(Army L-21A), -18S "125", -18AS "125", -18 "135" (Army L-21B),-18A "135", -18S "135", -18AS "135", -18 "150", -18A "150", -18S "150P", -18AS "150", -19 (Army L-18C), -19S	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
PA22-135,150,160	Harrison 8521940	bar and plate	8000328
PA-23, S/N 23-163 and up	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-23	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-160	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA23-235,250	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-23-250	Piper 32330-07, S/W Meggit 10631S	HE Series	8001956
PA-24	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-24-260 S/N 24-4783, 24-4804 and up	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-25	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
PA-25-235	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-28R-200,201,201T	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-28-236	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074
	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-30	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
PA-31	Niagara 20104A, Harrison 8530016, 8537798	9 row, 2 pass drawn cup	8000343
PA-31-310,325,350	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-32-260	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
PA-32-300	Niagara 20003A, Harrison 8529245	9 row drawn cup	8000074

Eligibility continued on the next page



# Firewall Forward



FAA-PMA Approved

**Important: To confirm FAA approved eligibility, verify that your current (or originally) installed oil cooler P/N is listed in the "FAA Approved Replacement for" column for your aircraft model.**

**Eligibility continued from previous page**

Aircraft Model	FAA Approved Replacement for P/N	Description	P/N
<b>Piper Continued</b>			
PA-32R-300	Piper 556-391, Harrison 8543897	bar and plate	8001201
PA-32RT-300,300T, PA-32R-301,301T	Niagara 20010A, Harrison 8535311	bar and plate	8000356
PA-34-200	Piper 67848-00, Niagara 20017A, Harrison 8537820	13 row, drawn cup with cutout	8000661
PA-39	Piper 18622-00, Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
<b>Robinson Helicopter</b>			
R22	Niagara 20008A	17 row drawn cup	8000216
R44, R44II	Robinson and Stewart Warner 10886A	HE Series	8001723
<b>Sky International (PITTS)</b>			
S-2B	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
	Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
<b>Socata</b>			
TB9, TB10	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
TB20, TB200	Niagara 20006A, Harrison 8534108	13 row drawn cup	8000215
	Niagara 20009A, Harrison 8533718, 8537798	18 row drawn cup	8000353
<b>Taylorcraft 2000, LLC</b>			
F22B, F22C, F22R	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075
<b>Univair (Stinson)</b>			
108, 108-1, 108-2, 108-3	Niagara 20002A, Harrison 8526250	7 row drawn cup	8000075

1 McFarlane engineering is unable to confirm this eligibility entry. P/N 8000215 is for larger (300HP+) engines.

2 When modified with IAW Cub Crafters Inc. STC # SA00718SE or SA92NW.

Cross Reference		Cross Reference	
<b>Beechcraft P/N</b>	<b>AERO-Classics P/N</b>	<b>Continued from previous column</b>	
169-380001-1	8001602	<b>Niagra P/N</b>	
169-380033	8001694	20009A	8000353
169-910002-23	8001602	20010A	8000356
<b>Britten-Norman (Pilatus) P/N</b>		20015A	8000357
354501026	8001602	20017A	8000661
<b>Continental P/N</b>		20044A	8000357
626189	8000683	20104A	8000343
627392	8000925	20440A	8000687
639151	8000319	20446A	8000319
639171	8000545	20448A	8000127
646685	8000464	20573A	8000683
646880	8000934	20585A	8000925
652671	8000687	20591A	8000934
652759	8000127	20617A	8000545
654572	8000960	20618A	8000307
654580	8000440	20623A	8000531
654585	8000953	20710A	8001080
654593	8000307	20795A	8000545
654595	8000545	<b>Piper P/N</b>	
655090	8001213	18622-00	8000074
693152	8000531	556-391	8001201
<b>Harrison P/N</b>		67848-00	8000661
8521940	8000328	85472-012	8001080
8526250	8000075	<b>Stewart Warner</b>	
8529245	8000074	8406R	8001733
8530016	8000343	8406R	8001602
8533718	8000353	8432R	8001689
8534108	8000215	8432S	8001694
8535311	8000356	10568R	8001640
8537798	8000343	10578R	8001535
8537820	8000661	10599R	8001599
8541336	8000357	10610R	8001646
8543897	8001201	10614R	8001643
<b>Mooney P/N</b>		10634R	8001652
620016	8001689	10865B	8001701
620036	8001602	10877A	8001588
620052	8001689	10880A	8001713
6200160501	8001694	10886A	8001723
<b>Niagra P/N</b>		10891A	8001718
10196A	8000464	<b>Twin</b>	
10278A	8000960	<b>Commander P/N</b>	
10279A	8000440	630146-509	8000353
10280A	8001213	<b>True Flight</b>	
10281A	8000953	<b>Holding LLC P/N</b>	
20002A	8000075	5505002-1	8001535
20003A	8000074	5505002-2	8001640
20006A	8000215	Verify aircraft make and model to ensure direct replacement eligibility. An IPC will confirm the part number that came equipped with the aircraft.	
20008A	8000216		

Continued in next column

## New Approval for Cessna and Piper Aircraft



FAA-PMA approval for more Cessna and Piper aircraft!

- Cessna 205 and 210 series
- Piper PA-23-250, PA-28-181 and PA-32-260 aircraft.



## Aluminum Oil Cooler for PA18, PA22 Series

Save weight and money!

P/N 8000328

- The only aluminum Super Cub oil cooler
- FAA-PMA

Save 3.7 lbs!



## Stewart Warner Oil Coolers

Factory new oil coolers manufactured by Stewart Warner are ideal for many experimental applications. They are identical to Stewart Warner oil coolers used on many certified aircraft but are not FAA-PMA approved. Form 337 field approvals are required for installation on certified aircraft.

Available part numbers:  
10611R, 10611S, 10631S,  
10655A, 8406S and 8446S.





FAA-PMA Approved

**Parts for the Legendary Pratt & Whitney PT6 Engines**

- In stock, no long lead times!
- Save \$\$ on commonly replaced parts

Part Number	Description	Eligibility
CA3011155	Fuel Transfer Tube	PT6A-10,11,11AG,15AG,21,25,25A,25C,27,28,34,34AG,34B,36,38,41,41AG,42,45A,45B,45R,50,60A,61,64,65B,65R,65AG,65AR,67,67A,67B,67D,67R,67AF,67AG,110,112,114,114A,116,135,135A,PT6B-36,36A,36B,PT6T-3,3B,3BE,6,6B,ST6T-75
CA3020030	Fuel Transfer Tube	PT6T-3,3B,6,ST6T-75,76
CA3029566	Fuel Nozzle Gasket	PT6A-11,11AG,15AG,110,112,114,114A,116,21,27,28,34,34AG,34B,36,135,135A,25,25A,25C,PT6T-3,3B,BE,6,6B,PT6B-36,36A,36B
CA3029678	Fuel Nozzle Gasket	PT6A-6,6A,6B,20,20A,20B
CA3103345-01	Retainer Plate	PT6A-10,11,11AG,15AG,21,25,25A,25C,27,28,34,34AG,34B,36,38,41,41AG,42,45A,45B,45R,45AG,50,60A,60AG,61,65B,65R,110,112,114,116,135,135A,PT6B-36,36A,36B,PT6T-3,3B,3BE,6,6B,ST6T-75
CA3103346-01	Diaphragm	PT6-A38,41,41AG,42,45A,45B,45R,45AG,50,65B,65R
CA3103347-01	Diaphragm	PT6A-10,11,11AG,15AG,21,25,25A,25C,27,28,34,34AG,34B,36,110,112,114,114A,116,135,135A,PT6B-36,36A,36B,PT6T-3,3B,3BE,6,6B,ST6T-75
CA3110998-01	Prop Shaft Shim	PT6A,60A,65B,65R,65AR,65AG
CA3118962-01	Gasket	PT6A-6,6A,6B,2-,20A,20B,21,25,25A,25C,27,28,34,34AG,34B,36,114,114A,116,135,135A
CG3011587	Rod End Bearing	PT6A-15AG,27,28,34,34AG,34B,36,45R,60A,61,135
MS9371-16	Gasket	PT6

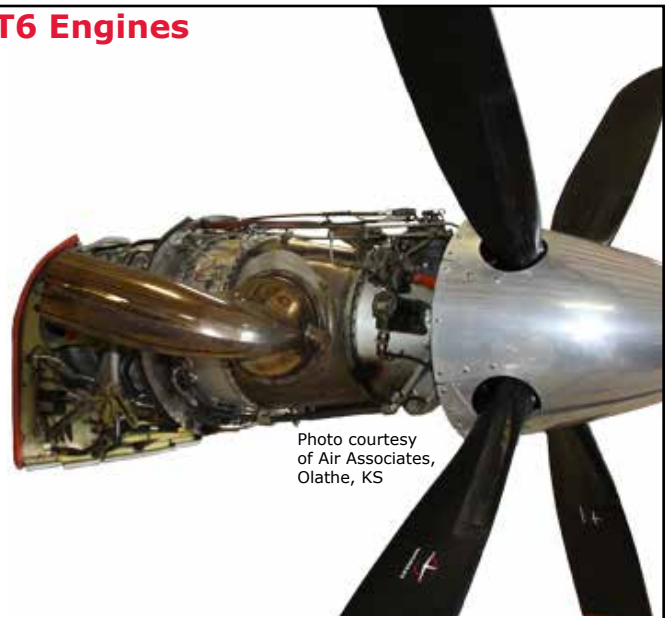


Photo courtesy of Air Associates, Olathe, KS

Manufactured by PMA Products, Inc.



Fuel Transfer Tube

Retainer Plate

Fuel Nozzle Gasket

Prop Shaft Shim

Rod End Bearing

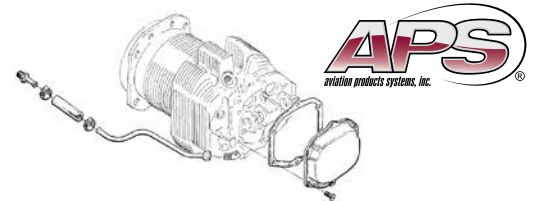
Gasket

Diaphragm

**APS Rocker Cover Gaskets**

Reusable, silicone!

- FAA-PMA Direct replacement for Continental and Lycoming Engines
- For use in both certified and experimental aircraft



APS-653193-S

APS-655528-S

APS-655704-S

APS-655705-S

APS-655706-S

APS-67193-S

APS-71450-S

APS-75906-S

APS-76036-S

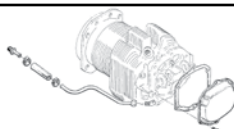
Part Number	Engine Model
APS-653193-S	<b>Continental: E165, E185, E225, 0470A,E,J, IO470J,K, LTSIO520A,E</b>
APS-655528-S	<b>Continental: 0470:</b> G,K,L,R,S,U, <b>IO470:</b> D,E,F,H,L,M,N,S,U,V, <b>TSIO470:</b> B,C,E, <b>IO520:</b> All Models, <b>TSIO520:</b> AF,CE,UB,B,BB,C,D,DB,E,EB,G,H,J,JB,K,KB,L,LB,M,N,NB,P,R,T,VB,WB, <b>IO550:</b> A,B,C,D,E,F,L
APS-655704-S	<b>Continental: IO240 Series, IO360 Series, TSIO360 Series</b>
APS-655705-S	<b>Continental: TSIO520:</b> BE, <b>IO550:</b> G,N,P,R, <b>TSIO550:</b> A,B,C,E,K, <b>GTSIO520:</b> C,D,F,H,K,L,M,N
APS-655706-S	<b>Continental: C75 Series,C85 Series,C90 Series,C125 Series,C145 Series,0200 Series,0300 Series,GO300 Series</b>
APS-67193-S	<b>Lycoming: IO-360:</b> A1A,1B,A1B6,A1B6D,A1C,A1C6,A1D,A1D6,A2A,A2B,A2C,A3B6,A3B6D,A2D6D,A3D6D,C1A,C1B,C1C,C1C6,C1D6,C1E6,C1E6D,C1G6,D1A,J1A6D,K2A, <b>AIO-360:</b> A1A,A1B,B1B, <b>AEIO-360:</b> A1A,A1B,A1B6,A1D,A1E,A1E6,A2B, <b>LIO-360:</b> C1E,C1E6,C1E6D, <b>IO-540:</b> K1A5,K1A5D,K1B5,K1D5,K1F5,K1F5D,K1G5,K1G5D,K1H5,K1J5,K1J5D,K1G5D, K1H5,K1J5,K1J5D,K1K5,L1A5D,L1C5,AE1A5, <b>AEIO-540:</b> L1B5,L1B5D,L1D5, <b>IO-540:</b> AA1A5,AA1B5, <b>TIO-540:</b> U2A, <b>LTIO-540:</b> U2A, <b>IGSO-540:</b> A1A,A1C,A1D,A1E,A1H, <b>TIO-540:</b> AE2A,AH1A, <b>HIO-540:</b> A1A, <b>IO-720:</b> A1A,A1B,D1B,D1C,D1CD, <b>TIVO-540:</b> A2A,A2B, <b>IYO-540:</b> A1A, <b>VO-540:</b> A1A,B1A,B1B,B1B3,B1C,B1D,B1F,B1G,B2D,C1A,C1B,C1C3,C2A,C2C, <b>TVO-540:</b> A1A, <b>VO-435:</b> A1D,A1C,A1A,A1E,A1F,B1A, <b>TVO-435:</b> A1A,B1A,B1B,D1A,D1B,F1A,G1A,G1B, <b>GO-435:</b> C2, <b>TIO-541:</b> E1A4,E1B4,E1C4,EAD4, <b>TIGO-541:</b> E1A, <b>TIO-540:</b> V2AD, <b>LTIO-540:</b> V2AD, <b>TO360:</b> C1A6D, <b>IO-360:</b> F1A, <b>IO-540:</b> J4A5
APS-71450-S	<b>Lycoming: TIO-540:</b> A1A,A1B,A2B,A2C,F2BD,J2B,J2BD,N2BD,R2AD,S1AD, <b>LTIO-540:</b> F2BD,J2B,J2BD,N2BD,R2AD, <b>IO-540:</b> B1A5,B1C5,E1A5,E1B5, <b>IO-720:</b> B1B,B1BD,C1B, <b>IO-540:</b> M1A5D,M1B5,M1B5D,UIA5D,U1B5D, <b>IGSO-540:</b> B1A,B1C, <b>IGSO-540:</b> B1A,B1C
APS-75906-S	<b>Lycoming: 0235 Series, 0290 Series, 0320 Series, 0340 Series, 0360:</b> A1A,A1AD,A1C,A1D,A1F,1F6,A1F6D,A1G,A1G6,A1G6D,A1H,A1H6,A1J,A1LD,A1P,A2A,A2D,A2E,A2F,A2G,A4A,A3AD,A4AD,A4D,A4G,A4J,A4JD,A4K,A4M,A4N,A4P,A5AD,A3A,B2A,C1A,C1C,C1E,C1F,C1G,C2A,C2C,C2D,C2E,C4F,C4PF,IA6, GIA6, <b>0360:</b> B2A,D2A,D2B, <b>LO360:</b> A1G6D,A1H6,E1A6D, <b>IO360:</b> B1B,B1BD,B1D,B1E,B1F,B1G6,B2E,B2F,B2F6,B4A,L2A,M1A,M1B, <b>AEIO360:</b> B1B,BAF,B1H,B1G6,B2F,B4A,H1A,H1B, <b>HIO360:</b> B1A,G1A, <b>HO360:</b> C1A, <b>O540:</b> A4D5,E4A5,E4A5,E4B5,E4B5D,E4C5,G1A5,G1A5D,G2A5,H1B5D,H2B5D, <b>IO540:</b> C4B5,C4B5D,C4D5D,D4A5,D4B5,D4C5,N1A5,N1A5D,T4B5D,E4C5D,V4A5D,V4A5, <b>AEIO540:</b> D4A5,D4B5,D4D5, <b>O540:</b> B1A5,B1B5,B2A5,B2B5,B2C5,B2B5, <b>O-540:</b> J2A,F1B5,J1A5D,J1C5D,J2A5D,J3A5,J3A5D,J3C5D, <b>IO-540:</b> W1A5,W1A5D,W3A5D,AB1A5, <b>O-540:</b> L3C5D, <b>TIO-540:</b> C1A,E1A,H1A, <b>TIO-540:</b> AA1AD,AB1AD,AB1BD,AF1A,AG1A,K1AD,AF1B
APS-76036-S	<b>Lycoming: TIO-541:</b> E1A4,E1B4,E1C4,EAD4, <b>TIGO-541:</b> E1A, <b>TIO-540:</b> V2AD, <b>LTIO-540:</b> V2AD, <b>TO360:</b> C1A6D, <b>IO-360:</b> F1A, <b>IO-540:</b> J4A5



## APS Oil Drain-Back Tubes

Save up to 50%

- FAA-PMA Direct replacement for Lycoming tubes
- For use in both certified and experimental aircraft



FAA-PMA Approved

Part Number	Model
APS-11935	<b>TIO-540</b> -A1A, -A1B, -A2A, -A2B, -A1C, -A2C, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -U2A, -V2AD, -W2A, -AA1AD, -AB1AD, -AB1BD, -AE2A, -AF1A, -AF1B, -AG1A, -AH1A, -AJ1A, -AK1A, <b>LTIO-540</b> -F2BD, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -U2A, -V2AD, -W2A
APS-68759	<b>O-320</b> -A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, B3C, -B2D, -B2E -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1C, -D1D, -D1F, -D2A, -D2B, -D2C, -D2F, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E1C, -E1F, -E1J, -E2A, -E2B, -E2C, -E2D, -E2F, -E2G, -E2H, -E3D, -E3H, -H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD, <b>IO-320</b> -A1A-A2A-B1A, -B1B, B1C, -B1E, -B1D, -B2A, -C1A, -C1B, -D1A, -D1C, -D1B, -E1A, -E1B, -E2A, -E2B, -F1A, <b>LIO-320</b> -B1A, -C1A, <b>AIO-320</b> -A1A, -A1B, -A2A, -A2B, -B1B, -C1B, <b>AEIO-320</b> -D1B, -D2B, -E1A, -E1B, -E2A, -E2B, <b>O-340</b> -A1A, -A2A, -B1A, <b>AEIO-360</b> -B1B, -B1D, -B1F, -B1F6, -B1G6, -B1H, -B2F, -B2F6, -B4A, -H1A, -H1B, <b>HIO-360</b> -B1A, -B1A, <b>HO-360</b> -A1A, -B1A, -B1B, -C1A, <b>IO-360</b> -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -E1A, -F1A, -L2A, -M1B, -M1A, <b>LIO-360</b> -M1A, <b>LO-360</b> -A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, <b>O-360</b> -A1A, -A1AD, -A1C, -A1D, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2A, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2C, -C2C, -C2D, -C2E, -C4F, -C4P, -D2A, -D2A, -D2B, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A, <b>AEIO-540</b> -D4A5, -D4B5, -D4C5, -D4D5, <b>IO-540</b> -AB1A5, -C1B5, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -G1A5, -J4A5, -K1E5, -L1C5, -M1B5D, -N1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5D, -W1A5D, <b>LTIO-540</b> -F2BD, -J2B, -J2BD, -K1AD, <b>O-540</b> -A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2B5, -B2C5, -B2C5, -B4B5, -B4B5, -E4A5, -E4A5, -E4B5, -E4B5, -E4C5, -E4C5, -F1B5, -G1A5, -G1A5, -G2A5, -H1B5D, -H2B5D, -J1A5D, -J3A5, -J3A5D, -J3C5D, -L3C5D, -W1A5, -W1A5D, -W3A5D, <b>TIO-540</b> -AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A
APS-68760	<b>O-320</b> -A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, B3C, -B2D, -B2E -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1C, -D1D, -D1F, -D2A, -D2B, -D2C, -D2F, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E1C, -E1F, -E1J, -E2A, -E2B, -E2C, -E2D, -E2F, -E2G, -E2H, -E3D, -E3H, -H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD, <b>IO-320</b> -A1A-A2A-B1A, -B1B, B1C, -B1E, -B1D, -B2A, -C1A, -C1B, -D1A, -D1C, -D1B, -E1A, -E1B, -E2A, -E2B, -F1A, <b>LIO-320</b> -B1A, -C1A, <b>AIO-320</b> -A1A, -A1B, -A2A, -A2B, -B1B, -C1B, <b>AEIO-320</b> -D1B, -D2B, -E1A, -E1B, -E2A, -E2B, <b>O-340</b> -A1A, -A2A, -B1A, <b>AEIO-360</b> -B1B, -B1D, -B1F, -B1F6, -B1G6, -B1H, -B2F, -B2F6, -B4A, -H1A, -H1B, <b>HIO-360</b> -B1A, -B1A, <b>HO-360</b> -A1A, -B1A, -B1B, -C1A, <b>IO-360</b> -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -E1A, -F1A, -L2A, -M1B, -M1A, <b>LIO-360</b> -M1A, <b>LO-360</b> -A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, <b>O-360</b> -A1A, -A1AD, -A1C, -A1D, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2A, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2C, -C2C, -C2D, -C2E, -C4F, -C4P, -D2A, -D2A, -D2B, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A
APS-68761	<b>O-320</b> -A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, B3C, -B2D, -B2E -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1C, -D1D, -D1F, -D2A, -D2B, -D2C, -D2F, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E1C, -E1F, -E1J, -E2A, -E2B, -E2C, -E2D, -E2F, -E2G, -E2H, -E3D, -E3H, -H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD, <b>IO-320</b> -A1A-A2A-B1A, -B1B, B1C, -B1E, -B1D, -B2A, -C1A, -C1B, -D1A, -D1C, -D1B, -E1A, -E1B, -E2A, -E2B, -F1A, <b>LIO-320</b> -B1A, -C1A, <b>AIO-320</b> -A1A, -A1B, -A2A, -A2B, -B1B, -C1B, <b>AEIO-320</b> -D1B, -D2B, -E1A, -E1B, -E2A, -E2B, <b>O-340</b> -A1A, -A2A, -B1A, <b>AEIO-360</b> -B1B, -B1D, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -H1A, -H1B, <b>HIO-360</b> -B1A, -B1A, <b>HO-360</b> -A1A, -B1A, -B1B, -C1A, <b>IO-360</b> -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6, -B2E, -B2F, -B2F6, -B4A, -E1A, -F1A, -L2A, -M1B, -M1A, <b>LIO-360</b> -M1A, <b>LO-360</b> -A1G6D, -A1H6, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, <b>O-360</b> -A1A, -A1AD, -A1C, -A1D, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2H, -A3A, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2C, -C2C, -C2D, -C2E, -C4F, -C4P, -D2A, -D2A, -D2B, -E1A6D, -E1AD, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A, <b>AEIO-540</b> -D4A5, -D4B5, -D4C5, -D4D5, <b>IO-540</b> -AB1A5, -C1B5, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -G1A5, -J4A5, -K1E5, -L1C5, -M1B5D, -N1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5D, -W1A5D, <b>LTIO-540</b> -F2BD, -J2B, -J2BD, -K1AD, <b>O-540</b> -A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2C5, -B4B5, -E4A5, -E4B5, -E4C5, -F1B5, -G1A5, -G2A5, -H1B5D, -H2B5D, -J1A5D, -J3A5, -J3A5D, -J3C5D, -L3C5D, -W1A5, -W1A5D, -W3A5D, <b>TIO-540</b> -AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A
APS-71737	<b>AEIO-540</b> -D4A5, -D4B5, -D4C5, -D4D5, <b>IO-540</b> -AB1A5, -C1B5, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -D4A5, -G1A5, -J4A5, -K1E5, -L1C5, -M1B5D, -N1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5D, -W1A5D, <b>LTIO-540</b> -F2BD, -J2B, -J2BD, -K1AD, <b>O-540</b> -A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -B1A5, -B1B5, -B2B5, -B2C5, -B4B5, -E4A5, -E4B5, -E4C5, -F1B5, -G1A5, -G2A5, -H1B5D, -H2B5D, -J1A5D, -J3A5, -J3A5D, -J3C5D, -L3C5D, -W1A5, -W1A5D, -W3A5D, <b>TIO-540</b> -AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A
APS-72702	<b>AEIO-360</b> -A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C, AIO-360-A1A, -A1B, -A2A, -A2B, -B1B, <b>HIO-360</b> -A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A, -L1B5D, -L1B5D, -L1D5, <b>HIO-540</b> -A1A, -A1B, -A3B6, <b>AEIO-540</b> -L1B5, -L1B5D, -L1D5, <b>HIO-540</b> -A1A, <b>IO-540</b> -A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5, <b>LTIO-540</b> -N2BD, -R2AD, -U2A, <b>TIO-540</b> -A1A, -A1B, -A1C, -A2A, -A2B, -AA1AD, -AB1AD, -AF1A, -AG1A, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -F2BD, -G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD, -W2A
APS-72703	<b>AEIO-360</b> -A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C, AIO-360-A1A, -A1B, -A2A, -A2B, -B1B, <b>HIO-360</b> -A1A, -A1B, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD, <b>IO-360</b> -A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A, <b>LIHO-360</b> -CIA, -CIB, -F1AD, <b>LIO-360</b> -C1E6, <b>TIO-360</b> -A1A, -A1B, -A3B6, <b>AEIO-540</b> -L1B5, -L1B5D, -L1D5, <b>HIO-540</b> -A1A, <b>IO-540</b> -A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5, <b>LTIO-540</b> -N2BD, -R2AD, -U2A, <b>TIO-540</b> -A2C, -AE2A, -U2A, <b>AEIO-580</b> -B1A, -A1A, -B1A
APS-73027	<b>AEIO-360</b> -A1A, -A1B, -A1B6, -A1C, -A1D, -A1E, -A1E6, -A2A, -A2B, -A2C, AIO-360-A1A, -A1B, -A2A, -A2B, -B1B, <b>HIO-360</b> -A1A, -A1B, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD, <b>IO-360</b> -A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A, <b>LIHO-360</b> -CIA, -CIB, -F1AD, <b>LIO-360</b> -C1E6, <b>TIO-360</b> -A1A, -A1B, -A3B6, <b>AEIO-540</b> -L1B5, -L1B5D, -L1D5, <b>HIO-540</b> -A1A, <b>IO-540</b> -A1A5, -AA1A5, -AA1B5, -AE1A5, -B1A5, -B1B5, -B1C5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1F5, -K1F5D, -K1G5, -K1G5D, -K1J5, -K1J5D, -K1K5, -K2A5, -L1B5D, -M1A5, -P1A5, <b>LTIO-540</b> -N2BD, -R2AD, -U2A, <b>TIO-540</b> -A1A, -A1B, -A1C, -A2A, -A2B, -A2C, -A2E, -A2A, -U2A, <b>AEIO-580</b> -B1A, -B1A
APS-74808	<b>AEIO-360</b> -A1A, -A1B, -A1B6, -A1C, -A1D, -A1D6, -A1E, -A1E6, -A2A, -A2B, -A2C, -A2E, -A3B6D, <b>AIO-360</b> -A1A, -A1B, -A2A, -A2B, -B1B, <b>IO-360</b> -A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1C6, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6, -A3B6D, -A3D6D, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F, -C1G6, -D1A, -J1A6D, -J1AD, -K2A, <b>LIO-360</b> -C1E, -C1E6, -C1E6D, <b>TIO-360</b> -A1A, -A1B, -A3B6, <b>IO-390</b> -A1A6, -A3A6, -A1B6, -A3B6

## Compression Tester Extension

Part Numbers

**EXTENSION CT1 (18mm thread)**

**EXTENSION CT12 (12mm thread)**

**EXTENSION CT14 (14mm thread)**

- Wrench-free compression testing
- Quality welded construction, o-ring seal
- Allows for exhaust system and baffling clearance
- Makes compression testing easy
- Save time and \$\$



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**Motor Mount Bolt Lock Washer for Cessna Aircraft**

**Part Number MC0851559-1**

- Up to four times the locking power for less cost!
- FAA approved using stronger material than the original, allowing the standard washer to be eliminated.
- Only the McFarlane washer is embossed for improved locking and no-slip during installation.
- Designed with six tabs instead of two giving extra locking power.
- Easier to use
- Four lock washers required per engine.

**FAA-PMA Approved**

Model	Serial Number
180F,G,H,J,K	18051184 thru 18053203
185, 185A,B,C,D,E/A185E,F	All
182E,F,G,H,J,K,L,M,N,P,Q,R	18253599 thru 18268615
A182J,K,L,M,N/F182P,Q	All
188, 188A,B/A188/A188A,B/T188C	All
210-5 (205), 210-5A (205A)	All
P206, P206A,B,C,D,E, TP206A,B,C,D,E	All
206, U206, U206A,B,C,D,E,F,G	All
TU206A,B,C,D,E,F,G	All
207, 207A, T207, T207A	All
210, 210A,B,C,D,E,F,G,H,J,K,L,M,N,R	All
P210N,R, T210F,G,H,J,K,L,M,N,R	All
310, 310B,C,D,F,G,H,I,J,K,L,N,P,Q,R	All
T310P,Q,R,	All
320D,E,F	All
411, 411A, 414	All
414A	414A0001 thru 414A0680



**Oil Access Door for Cessna Aircraft**

**Part Number WAC752000**

- Improved to better match the contour of the cowl
- More affordable than other replacement doors
- Replaces Cessna P/N 0752000-56

**SAVE!**  
**FAA-PMA**  
**Approved**



**Now manufactured by McFarlane!**

**Fuel Injection/Hydraulic/Oxygen Line Union Cone**

**Part Number AN800C2-MOD**

**Improved Design! These braze-on 316 stainless fittings are an improvement over AN800C2 fittings commonly used on 1/8" stainless steel fuel injection, hydraulic and oxygen lines.**



Improvements include:

- Witness hole to assure complete braze penetration
- Closer tolerance ID (0.131" - 0.133") to assure compatibility with close tolerance MIL-T-8504/ASTM A632 stainless steel tubing. The precision ID provides ideal clearance for proper braze penetration.

Note: Although similar, these parts are not manufactured/certified to AN800 specs. Fittings certified to AN800 are available upon request.

**Adel Clamps (MS21919 W Series)**

Loop type, cushioned support clamps, commonly referred to as "Adel Clamps" feature a wedge that is bonded to the cushion to prevent the escape of small wires when used for general purpose wire bundle clamping. Meets the requirements of MS21919.

**Standard MS21919WDGXX Clamps**

- Aluminum band with a chlorophrene cushion (black with blue stripe)
- For use in areas contaminated with petroleum based hydraulic fluids and occasional fuel splash
- Ozone resistant
- Rated to 212° F
- Not resistant to phosphate ester based fluids
- Supersedes MS21919-DG series without the wedge

**High Temperature MS21919WCJXX Clamps**

**These blue clamps will not get hard and brittle with engine temperatures. A little more expensive but will last a long time in firewall forward applications.**

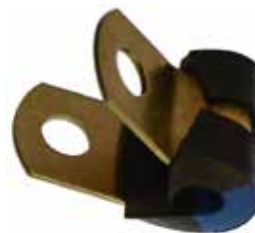
- Corrosion resistant steel band with a blue fluorosilicone cushion
- Perfect for use in engine area or other areas with elevated temperature and/or where petroleum based fluid contamination is present
- Ozone resistant
- Rated to 450° F
- Not resistant to phosphate ester based fluids

**Valve Guide Cleaning Reamers for Lycoming Engines**

- Discounted pricing for complete set
- Spiral flutes for a better guide finish
- Pilot sized specifically for cleaning
- Cutting pilot cleans guides without notching guide surfaces
- Constructed of precision ground, high speed tool steel
- See Page 198 for additional information



Tube/Bundle O.D.	Aluminum Band, Chlorophrene Cushion: MS21919WDG Series	Corrosion Resistant Steel Band, Fluorosilicone Cushion: MS21919WCJ Series
1/8"	MS21919WDG2	MS21919WCJ2
1/5"	MS21919WDG3	MS21919WCJ3
1/4"	MS21919WDG4	MS21919WCJ4
1/3"	MS21919WDG5	MS21919WCJ5
3/8"	MS21919WDG6	MS21919WCJ6
7/16"	MS21919WDG7	MS21919WCJ7
1/2"	MS21919WDG8	MS21919WCJ8
9/16"	MS21919WDG9	MS21919WCJ9
5/8"	MS21919WDG10	MS21919WCJ10
11/16"	MS21919WDG11	MS21919WCJ11
3/4"	MS21919WDG12	MS21919WCJ12
13/16"	MS21919WDG13	MS21919WCJ13
7/8"	MS21919WDG14	MS21919WCJ14
15/16"	MS21919WDG15	MS21919WCJ15
1"	MS21919WDG16	MS21919WCJ16



P/N MS21919WDG3



P/N MS21919WCJ3



P/N MS21919WCJ4



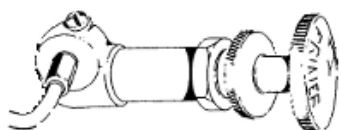
P/N MS21919WCJ5

## Fuel Primer Seal Kit

P/N FPS-KT-1

Contains two MIL-SPEC fuel-proof fluoroelastomer (Viton) o-rings required to service most standard fuel primers.

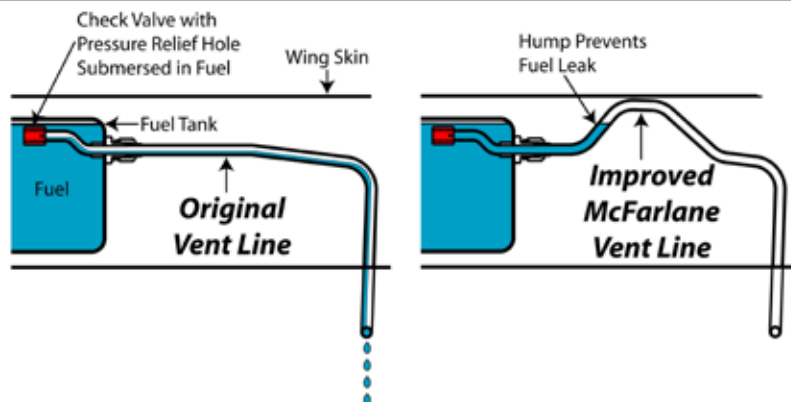
**New!**



## Improved Fuel Vent Lines for Cessna Aircraft

**Stops fuel waste!**

- Stops asphalt damage
- Stops environmental damage
- Fly with known full tanks
- Extends useful range
- Pays for itself quickly at \$4.00 per gallon
- Adds value to your airplane
- FAA-PMA direct replacement, no STC or 337 form needed



The fuel vent line on most Cessna single engine aircraft attaches to a check valve inside the tank to prevent fuel from flowing out of the vent line, but this valve has a weep hole that allows some fuel to pass to prevent over-pressurization.

Unfortunately, this weep hole is much lower than the fuel level with full tanks. Fuel will continuously leak out of the vent line until the fuel level is below the weep hole. With the original vent line, you cannot fill the tanks without wasting a lot of fuel.

The Cessna legacy aircraft also have a tank interconnect vent line that allows fuel from both tanks to leak out of the vent. When parked on an unlevel surface, the fuel loss from these aircraft can be many gallons.

**McFarlane has solved these problems** with a redesigned vent line featuring a unique hump that extends above the top of the tank. Some fuel can still escape through the weep hole and out the vent to prevent over-pressurization. However, once the pressure is relieved, the tanks will remain full.

### Convenient Kits and Components

Kits containing a new connection hose (where required), part number MCS1495-8 and rubber grommet, part number MS35489-14 are also available where applicable. Just add a "K" suffix to the part numbers listed below. Rubber tubing sold by the foot is available by ordering part number R221485.

### Installation Tip:

Access to loosen or tighten the vent line in most of the Cessna aircraft is very tight because the tube flare nut ("B" nut) sits partway in the wing rib. However, with the correct wrench, you can normally loosen the nut from the under-wing inspection holes without removing the top tank access skin. The fitting in the tank has indexing flats and will normally not rotate while the tube flare nut is being loosened and re-tightened for the new line. Use caution in starting the nut as the Cessna tank fitting is a welded assembly with soft aluminum. Be sure not to cross-thread or over tighten the nut as you can easily strip the threads on this fitting.

Aircraft Model	Serial Number	Standard Range Tanks		Extended Range Tanks	
		Left	Right	Left	Right
150, 150A	All	MC0400311-119 Only for use with Cessna vent assembly 0523552-2 2		MC0400311-121 Only for use with Cessna vent assembly 0523552-2 2	
150B,C,D,E,F,G,H,J,K,L,M, F150F,G,H,J,K,L,M	All	MC0400311-119		MC0400311-121	
A150K,L,M, FA150K,L,M, FRA150L,M	All	MC0400311-120			
152, F152	All	MC0400311-119		MC0400311-121	
A152, FA152	All	MC0400311-120			
172, 172A,B,C	All	MC0523559-8 Only for use with Cessna vent assembly 0523552-2 2			
172D,E,F,G,H,I		MC0523559-8			
172K,L,M 1	17257162 thru 17260805	MC0523559-8		MC0523559-6	
172M 1,N	17260806 thru 17274009	MC0523559-12		MC0523559-11	
172P	All	MC0523559-12 MC0523098-1 Integral Cell		MC0523559-11	
172Q	All	MC0523559-11 MC0523098-1 Integral Cell			
172RG	All	MC0523098-1			
F172D,E,F,G,H 1	F172-0001 thru F172-0561	MC0523559-8			
F172H 1,K,L	F172-0560 thru F17200904	MC0523559-8		MC0523559-6	

Continued on next page



**Improved Fuel Vent Lines for Cessna Aircraft**

Continued from previous page

Aircraft Model	Serial Number	Left		Right	
		Standard Range Tanks		Extended Range Tanks	
F172M <sup>1</sup>	F17200905 thru F17201234	MC0523559-12			
F172M <sup>1</sup> ,N	F17201235 thru F17202254	MC0523559-12		MC0523559-11	
F172P	F17202040 thru F17202254	MC0523559-12 MC0523098-1 Integral Cell		MC0523559-11	
FP172	All	MC0523559-6			
FR172J,K	All	MC0523559-11 MC0523098-1 Integral Cell			
P172D	All	MC0523559-6			
R172K	All	MC0523559-11 MC0523098-1 Integral Cell			
175, 175A,B,C		MC0523559-6 Only for use with Cessna vent assembly 0523552-2 <sup>2</sup>			
180 <sup>1</sup>	32488 thru 32661	MC0716122 Only for use with Service Kit SK180-6			
180A,B,C,D	All	MC0716127-1			
180E,F	All	MC0716127-1	MC0716127-2 Not used with 0726001-16 RH Standard Fuel Tank	MC1200106-51	MC1200106-52
180G,H,J,K <sup>1</sup>	18051313 thru 18053000	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
180K <sup>1</sup>	18053001 thru 18053203	MC1200106-266	MC1200106-267		
182	All	MC0716122			
182A,B,C,D	All	MC0716127-1			
182E,F,G,H,J,K,L,M,N,P,Q <sup>1</sup>	18253599 thru 18266590	MC0716127-1		MC1200106-51	
182Q <sup>1</sup> ,R,S,T	18266591 thru 18299999	MC1200106-266	MC1200106-267		
F182P,Q <sup>1</sup>	F18200001 thru F18200094	MC0716127-1		MC1200106-51	
F182Q <sup>1</sup>	F18200095 thru F18200169	MC1200106-266	MC1200106-267		
FR182 <sup>1</sup>	FR18200001 thru FR18200020	MC0716127-1		MC1200106-51	
FR182 <sup>1</sup>	FR18200021 thru FR18200070	MC1200106-266	MC1200106-267		
R182 <sup>1</sup>	R18200001 thru R18200583	MC0716127-1		MC1200106-51	
R182 <sup>1</sup> ,TR182 <sup>1</sup>	R18200584 thru R18202041	MC1200106-266	MC1200106-267		
T182,T182T	All	MC1200106-266	MC1200106-267		
185,A,B,C,D,E,A185E,A185F <sup>1</sup>	185-0001 thru 18503683	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
A185F <sup>1</sup>	18503684 thru 18504448	MC1200106-266	MC1200106-267		
210-5 (205), 210-5A (205A)	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
206,P206,P206A,B,C,D,E TP206A,B,C,D,E TU206A,B,C,D,E,F,G U206, U206A,B,C,D,E,F,G	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
206H,T206H	All	MC1200106-266	MC1200106-267		
207,207A,T207,T207A	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52
210,210A,B,C,D,E,F T210F	All	MC0716127-1	MC0716127-2	MC1200106-51	MC1200106-52

<sup>1</sup> Partial model eligibility

<sup>2</sup> These aircraft originally used 1/4" vent lines, however they may be upgraded to a 3/8" vent line with the installation of the P/N 0523552-2 vent assembly per the applicable IPC. The indicated McFarlane vent lines are only eligible for use with the upgraded vent assembly.

**King Air Fuel Drain Valve**

Improved, repairable valve for thousands less than Beech!

**Fuel Drain Valve P/N MC90-380016-1**

- Improved seal design provides a long life reliable valve.
- Teflon lined control conduit and stainless steel cable.
- Reliable design - proven over 10,000 cycles.
- Approved for models C90, C90A, C90GTi, C90GT, E90 and F90
- Latest Viton fuel-proof seals
- Anodized for better corrosion resistance



**SAVE \$\$**

P/N MC90-380016-1 consists of two components: a valve housing, and a replaceable valve control/plunger subassembly (P/N 6325K). Only McFarlane valves are repairable, Beech valves do not have replaceable components.

**Unheard of 10 Year Limited Warranty!**



**Cessna 177RG and F177RG Fuel Reservoir Drain Plunger**

- All metal, one piece design eliminates the flimsy C-clip.
- McFarlane's Vulcanize bonded blue Viton® rubber tip outlasts the original in any fuel.
- Convenient kits available containing the plunger and O-Rings, P/N FDV-KT-1.



**SAVE!**





## Fuel Strainer Parts for Cessna Aircraft

McFarlane can replace your fuel system parts with high quality McFarlane manufactured parts. Now offering fuel bowls, top assemblies, fuel bowl washers, fuel bowl nuts, standpipes, plungers, stainless steel washers for your plunger, fuel-proof fluorocarbon o-rings, fuel strainer drain cables and fuel strainer seal kits. **Buy any components separately or as convenient kits.**

- Improved safety
- More reliable
- Longer life
- Less money

### Maintenance Tip:

*Cleaning the Fuel Screen - The fuel screen is removed by removing the standpipe. The rubber tipped plunger must be unseated before the standpipe is loosened. Failure to lift the plunger off of its standpipe seat can damage the plunger. Pull the strainer drain knob as if you were draining the fuel bowl. Block or clamp the knob in this position. Insert a smooth round tool such as a screw driver or punch in the standpipe cross-hole and un-screw the standpipe.*

### Fuel Bowl MC0756008-1

- Computer machined (not die cast)
- Gold anodized for additional corrosion resistance.
- This bowl is engineered to last!



### Fuel Strainer Seal Kits FS-KT-1, FS-KT-9, FS-KT-10 and FS-KT-11

Only McFarlane has approval to replace the old less fuel resistant o-rings with the latest fuel-proof fluorocarbon o-ring. Kits includes applicable gasket and o-rings to seal the fuel strainer.



### Fuel Strainer Plunger MC0756010-11

- Special electro polished shaft for longer o-ring life
- McFarlane's Vulcanize bonded blue Viton® rubber tip outlasts the original in any fuel.



### Fuel Strainer Gasket MC0756041-1

- Fuel proof Viton foam won't shrink or harden due to fuel exposure.
- Fits restart Cessna aircraft and late U206G/TU206G models.



**Less than 1/2 Cessna price!**

### Maintenance Tip:

Cessna maintenance manual requires replacement of this gasket every 100 hours.

### Fuel Top Assembly MC0756005-2

- All aluminum construction prevents galvanic corrosion between housing and inlet tube.
- Fully anodized to prevent corrosion and galvanic reaction between the brass filter and aluminum inlet tube.
- Improved fuel inlet tube attachment ensures a reliable secure fit
- Save \$\$



### Fuel Strainer Standpipe MC0756011-1

- Stainless steel
- Costs less
- No more corrosion pits
- No more stripped threads
- The last one you will buy!



### Fuel Strainer Drain Cables MCS1517 Series

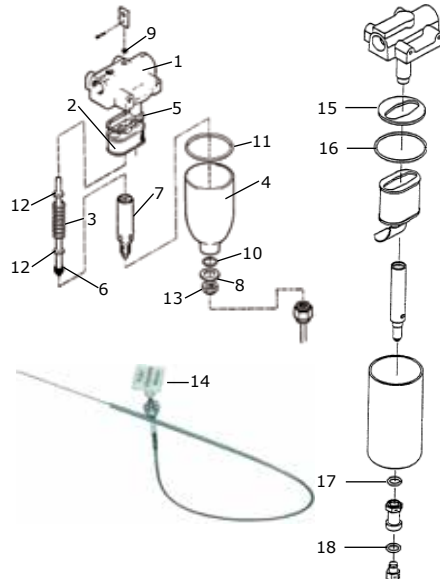
- Stainless steel conduit
- Improved aluminum knob
- Larger wire diameter



## Fuel Strainer Kits for Cessna Aircraft

Save time and money with convenient kits!  
**See eligibility on the following page.**

Qty	Part Number	Description	Index
<b>FS-KT-1 Fuel Strainer Seal Kit</b>			
1	MC0756009-8	Gasket	5
1	MCM83248/1-010	O-ring	9
1	MCM83248/1-111	O-ring	10
1	MCM83248/1-138	O-ring	11
<b>FS-KT-2 Fuel Bowl Kit</b>			
1	FS-KT-1	Fuel Strainer Seal Kit	
1	MC0756008-1	Fuel Bowl	4
1	MC0756015-1	Washer	8
1	MCS1573-3	Nut	13
<b>FS-KT-3 Fuel Strainer Rebuild Kit</b>			
1	FS-KT-2	Fuel Bowl Kit	
1	0756012-1	Spring	3
1	MC0756010-11	Plunger	6
1	MC0756011-1	Standpipe	7
2	MCS1450-27A7-032	Washer	12
<b>FS-KT-4 Fuel Strainer Kit</b>			
1	FS-KT-3	Fuel Strainer Kit	
1	MC0756005-2	Top Assembly	1
1	0756009-1	Filter	2
<b>FS-KT-5 Fuel Strainer and Cable Kit</b>			
1	FS-KT-4	Fuel Strainer Kit	
1	MCS1517-7	Strainer Drain Cable	14



Qty.	Part Number	Description	Index
<b>FS-KT-6 Fuel Strainer Kit</b>			
1	MC0756005-2	Top Assembly	1
1	0756009-7	Filter	2
1	FS-KT-3	Fuel Strainer Rebuild Kit	
<b>FS-KT-7 Fuel Strainer and Cable Kit</b>			
1	FS-KT-6	Fuel Strainer Kit	
1	MCS1517-7	Strainer Drain Cable	14
<b>FS-KT-9 Fuel Strainer Seal Kit</b>			
1	MC0756041-1	Gasket	15
1	M83248/1-011	O-ring	18
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
<b>FS-KT-10 Fuel Strainer Seal Kit</b>			
1	MC0756041-1	Gasket	15
1	M83248/1-010	O-ring	9
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
<b>FS-KT-11 Fuel Strainer Seal Kit</b>			
1	MC0756041-1	Gasket	15
1	M83248/1-111	O-ring	17
1	M83248/1-138	O-ring	16
<b>FS-KT-12 Fuel Plunger Kit</b>			
1	FS-KT-1	Fuel Strainer Seal Kit	
1	MC0756010-11	Plunger	6
1	MC0756015-1	Washer	8
1	MCS1573-3	Nut	13



**Eligibility for Fuel Strainer Parts and Kits for Cessna Aircraft**



Cessna Models	Serial Numbers	MCO756005-2	MCO756008-1	MCO756010-11	MCO756011-1	MCS1517-7	FS-KT-1	FS-KT-2	FS-KT-3	FS-KT-4	FS-KT-5	FS-KT-6	FS-KT-7	FS-KT-9	FS-KT-10	FS-KT-11	FS-KT-12
150E <sup>1</sup>	15060773 thru 15061152																
150E <sup>1</sup> ,F,G,H,J,K,L,M, A150K,L,M	15061153 thru 15079405 and A1500001 thru A1500734	•	•	•	•	•	•	•	•	•	•	•					•
F150F,G,H,J,K,L,M, FA150K,L,M	All	•	•	•	•	•	•	•	•	•	•	•					
FRA150L,M	All	•	•	•	•	•	•	•	•	•	•	•					
152, A152	All	•	•	•	•	•	•	•	•	•	•	•					•
F152, FA152	All	•	•	•	•	•	•	•	•	•	•	•					
172D,E,F <sup>1</sup>	17249545 thru 17252533																
172F <sup>1</sup> ,G,H	17252534 thru 17256512 and 638	•	•	•	•	•	•	•	•	•	•	•					•
172I,K,L,M,N,P,Q	All	•	•	•	•	•	•	•	•	•	•	•					•
172R,S	All																
172RG	172RG0001 thru 172RG0890 and 691	•	•	•	•	•	•	•	•	•	•	•					•
172RG	172RG0891 thru 172RG1191	•	•	•	•	•	•	•	•	•	•	•					
P172D	All		•	•	•	•	•	•	•	•	•	•					
F172D,F <sup>1</sup>	F172-0001 thru F172-0139					•	•	•	•	•	•	•					
F172F <sup>1</sup> ,G,H,K,L,M,N,P	F172-0140 thru F17202254	•	•	•	•	•	•	•	•	•	•	•					
FR172E	All	•	•	•	•	•	•	•	•	•	•	•					
FR172F,G,H,J,K	All	•	•	•	•	•	•	•	•	•	•	•					
R172E	All	•	•	•	•	•	•	•	•	•	•	•					
R172F,G,H	All	•	•	•	•	•	•	•	•	•	•	•					
R172K	All	•	•	•	•	•	•	•	•	•	•	•					
177, 177A,B	All	•	•	•	•	•	•	•	•	•	•	•					•
177RG	All	•	•	•	•	•	•	•	•	•	•	•					•
F177RG	All	•	•	•	•	•	•	•	•	•	•	•					
180H <sup>1</sup> ,J,K	18051497 thru 18051875	•	•	•	•	•	•	•	•	•	•	•					•
180H <sup>1</sup> ,J,K	18051876 thru 18053203 <sup>2</sup>	•	•	•	•	•	•	•	•	•	•	•					•
182H <sup>1</sup> ,J,K	18256040 thru 18258505 and 675, 18255845	•	•	•	•	•	•	•	•	•	•	•					•
182L,M,N,P,Q,R	All	•	•	•	•	•	•	•	•	•	•	•					•
182S,T, T182T	All																•
F182P,Q	All	•	•	•	•	•	•	•	•	•	•	•					•
FR182	All	•	•	•	•	•	•	•	•	•	•	•					
R182, TR182	All	•	•	•	•	•	•	•	•	•	•	•					•
T182	All	•	•	•	•	•	•	•	•	•	•	•					
185D <sup>1</sup> ,E	185-0844 thru 185-1149	•	•	•	•	•	•	•	•	•	•	•					•
A185E <sup>1</sup>	185-0968 thru 185-1149	•	•	•	•	•	•	•	•	•	•	•					•
A185E <sup>1</sup> ,F	185-1150 thru 185-1300	•	•	•	•	•	•	•	•	•	•	•					•
A185E <sup>1</sup> ,F	185-1301 thru 18504448	•	•	•	•	•	•	•	•	•	•	•					•
188,188A,B	188-0001 thru 18802348 and 653	•	•	•	•	•	•	•	•	•	•	•					•
A188,A188A,B <sup>1</sup> (w/ fs/lge tanks)	188-0001 thru 18802348, 18800833T thru 18802348T and 653, 678T	•	•	•	•	•	•	•	•	•	•	•					•
A188,A188A,B <sup>1</sup> (w/ wing tanks)	188-0001 thru 18802348, 18800833T thru 18802348T and 653, 678T	•	•	•	•	•	•	•	•	•	•	•					•
A188B <sup>1</sup> (w/ fuselage tank)	18802349 thru 18802745	•	•	•	•	•	•	•	•	•	•	•					•
A188B <sup>1</sup> (w/ wing tanks)	18802349 thru 18803973, 18802349T thru 18803973T	•	•	•	•	•	•	•	•	•	•	•					•
T188C	T18803325T thru T18803974T and T18802839T, 3307T, 3308T	•	•	•	•	•	•	•	•	•	•	•					•
206H,T206H	All																•
P206,P206A,B, TP206A,B	All	•	•	•	•	•	•	•	•	•	•	•					•
P206C,D,E, TP206C,D,E	All	•	•	•	•	•	•	•	•	•	•	•					•
U206, U206A,B	All	•	•	•	•	•	•	•	•	•	•	•					•
U206C,D,E,F <sup>1</sup> ,G <sup>1</sup>	U206-0915 thru U20606846 and 676	•	•	•	•	•	•	•	•	•	•	•					•
U206G <sup>1</sup>	U20606847 thru U20607020																•
TU206A,B	All	•	•	•	•	•	•	•	•	•	•	•					•
TU206C,D,E,F <sup>1</sup> ,G <sup>1</sup>	U206-0915 thru U20606846 and 676	•	•	•	•	•	•	•	•	•	•	•					•
TU206G <sup>1</sup>	U20606847 thru U20607020																•
207,207A,T207,T207A	All	•	•	•	•	•	•	•	•	•	•	•					•
210E,F,G	All	•	•	•	•	•	•	•	•	•	•	•					•
210H,J,K,L,M,N <sup>1</sup>	21058937 thru 21064535	•	•	•	•	•	•	•	•	•	•	•					•
210N <sup>1</sup>	21064536 thru 21064897	•	•	•	•	•	•	•	•	•	•	•					•
210R, T210R	All	•	•	•	•	•	•	•	•	•	•	•					
T210F,G	All	•	•	•	•	•	•	•	•	•	•	•					•
T210H,J,K,L,M,N <sup>1</sup>	T210-0308 thru T210-0454, 21059200 thru 21064535 and 21058140	•	•	•	•	•	•	•	•	•	•	•					•
T210N <sup>1</sup>	21064536 thru 21064897	•	•	•	•	•	•	•	•	•	•	•					•
P210N <sup>1</sup>	P21000001 thru P21000760	•	•	•	•	•	•	•	•	•	•	•					•
P210N <sup>1</sup>	P21000761 thru P21000834	•	•	•	•	•	•	•	•	•	•	•					•
337, 337A,B,C,D,E,F	All	•	•	•	•	•	•	•	•	•	•	•					•
337G,H (std range)	All	•	•	•	•	•	•	•	•	•	•	•					•
337G,H (long range), F337E,F,G,H	All	•	•	•	•	•	•	•	•	•	•	•					•
FT337E,F, FT337GP, FT337HP	All	•	•	•	•	•	•	•	•	•	•	•					•
T337B,C,D,E,F <sup>1</sup>	337-0526 thru 33701351 and 337-0001	•	•	•	•	•	•	•	•	•	•	•					•
T337F <sup>1</sup>	33701352 thru 33701398	•	•	•	•	•	•	•	•	•	•	•					•
T337H (std range)	All	•	•	•	•	•	•	•	•	•	•	•					•
T337H (long range)	All	•	•	•	•	•	•	•	•	•	•	•					•
T337G, P337H	All	•	•	•	•	•	•	•	•	•	•	•					•
T1137H-SP	All	•	•	•	•	•	•	•	•	•	•	•					•

<sup>1</sup> Partial model eligibility      <sup>2</sup> Aircraft without floats USE P/N MCS1517-7 and Aircraft with floats USE P/N MCS1517-4.  
<sup>3</sup> Models 188, 188A, A188, A188A, B S/N 188-0446 thru 18803926T with wing tanks USE P/N MCS1517-12. Model T188C, S/N T18803297T thru T18803926T with wing tanks USE P/N MCS1517-15.

## Improved Fuel Strainer Seal Kits for Piper Aircraft

### Better seal at half the price!

Each kit includes both the upper and lower seal for one fuel strainer. Parts also available individually.

#### PA-23 and PA-44 Series: Kit P/N FSP-KT-1

##### Replace leaky copper crush seals with high performance Stat-O-Seals

McFarlane has FAA-PMA approval to replace the high priced P/N 753-205 copper crush gaskets on the Aztec, Apaches and Seminoles with stainless steel/fluorocarbon Stat-O-Seals. The old copper crush gaskets were unreliable and poorly suited for sealing against the small lip on the bottom of the fuel bowl. They often required several attempts to get a satisfactory seal (expensive at \$12 per seal). With McFarlane's improved Viton Stat-O-Seal design **a positive seal is easy to achieve!** Kit also includes P/N MC751-882 upper gasket.

Graphics not to scale



FSP-KT-1  
P/N MC751-882 Upper Gasket and  
P/N MC753-205 Lower Stat-O-Seal

#### PA-31, PA-34, PA-36, and PA-46 Series: Kit P/N FSP-KT-2

##### Fuel Proof O-Rings and Stat-O-Seals

Improved FAA-PMA o-rings and Stat-O-Seals feature fuel proof fluorocarbon that won't swell or degrade like the original Buna N seals.

Graphics not to scale



FSP-KT-2  
P/N MC757-255 Upper O-ring and  
P/N MC751-898 Lower Stat-O-Seal

#### PA-24, PA-28-235, PA-30, PA-32, and PA-39 Series: Kit P/Ns FSP-KT-3 and FSP-KT-4

##### Fuel Bowl Gasket and O-Rings

FSP-KT-3 replaces P/N 751-871 upper gasket and MS29513-008 (supersedes Piper P/Ns 755-919, 485-331, and 485-332) lower seal o-ring used on most of these aircraft. However, some PA-28-235 and PA-32 series aircraft use a newer style fuel strainer that use a MS29513-043 (supersedes Piper P/Ns 762-503 and 483-330) o-ring for an upper seal instead of the 751-871 gasket. These aircraft must use P/N FSP-KT-4. Kits contain FAA-PMA gaskets and standard o-rings. These kits include the correct o-rings per Piper Service Bulletin 1198A.



Gasket  
P/N CA751-871



Graphics not to scale

FSP-KT-3  
P/N CA751-871 Gasket and  
P/N MS29513-008 O-ring

FSP-KT-4  
P/N MS29513-043 O-ring and  
P/N MS29513-008 O-ring

#### PA-28 Series (except PA-28-235): P/N CA462-049

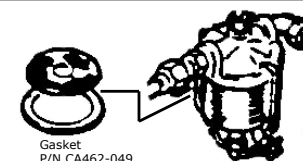
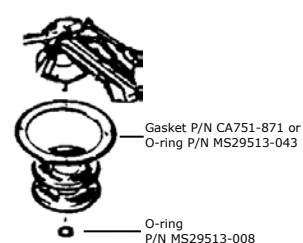
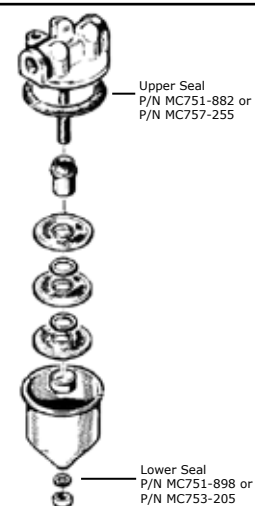
##### Fuel Strainer/Gascolator Gasket

FAA-PMA approved direct replacement for Piper P/N 462-049.

P/N CA462-049 not recommended to be used with autogas.



Aircraft Model	Serial Number	Gasket/O-ring Upper Seal P/N	Gasket/O-ring Lower Seal P/N	Kit P/N
PA-23-235, 250	All	MC751-882	MC753-205	FSP-KT-1
PA-E23-250	All	MC751-882	MC753-205	FSP-KT-1
PA-24-400	All	CA751-871	MS29513-008	FSP-KT-3
PA-28-140, 150, 160, 180	All	CA462-049	N/A	N/A
PA-28-151, 161	All	CA462-049	N/A	N/A
PA-28-181	28-7690001 thru 28-7990626 and 28-8090001 thru 28-8690062	CA462-049	N/A	N/A
PA-28-201T	All	CA462-049	N/A	N/A
PA-28-235	All	CA751-871 (gasket) or MS29513-043 (o-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (o-ring)
PA-28-236	All	CA462-049	N/A	N/A
PA-28R-180	All	CA462-049	N/A	N/A
PA-28R-200	All	CA462-049	N/A	N/A
PA-28R-201, 201T	All	CA462-049	N/A	N/A
PA-28RT-201, 201T	All	CA462-049	N/A	N/A
PA-30	All	CA751-871	MS29513-008	FSP-KT-3
PA-31	All	MC757-255	MC751-898	FSP-KT-2
PA-31-300	All	MC757-255	MC751-898	FSP-KT-2
PA-31-325	All	MC757-255	MC751-898	FSP-KT-2
PA-31-350, 350 (T1020)	All	MC757-255	MC751-898	FSP-KT-2
PA-31P, 350	All	MC757-255	MC751-898	FSP-KT-2
PA-32-260	All	CA751-871 (gasket) or MS29513-043 (o-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (o-ring)
PA-32-300	All	CA751-871 (gasket) or MS29513-043 (o-ring)	MS29513-008	FSP-KT-3 (gasket) FSP-KT-4 (o-ring)
PA-34-200T, 220T	All	MC757-255	MC751-898	FSP-KT-2
PA-36-285, 300, 375	All	MC757-255	MC751-898	FSP-KT-2
PA-38-112	All	CA462-049	N/A	N/A
PA-39	All	CA751-871	MS29513-008	FSP-KT-3
PA-44-180, 180T	All	MC751-882	MC753-205	FSP-KT-1
PA-46-310P, 350P	All when equipped with filter assembly 561-046 or 599-180 (Air Maze)	MC757-255	MC751-898	FSP-KT-2
PA-46R-350T	All when equipped with filter assembly 561-046 or 599-180 (Air Maze)	MC757-255	MC751-898	FSP-KT-2





## Fuel and Oil Quick Drain Valves

Save! Large Selection, Low Price

- Simple operation - spring load close
- FAA-PMA, FAA-TSO-C76 or MIL-SPEC approved
- A clean no mess way to test and drain fuel or oil

### SAF-AIR Aviation Products

SAF-AIR has produced high quality close-tolerance valves since 1959. They are unique because their valves have replaceable o-rings.

- Unique o-ring placement prevents leaks by eliminating an area where dirt can gather.
- O-rings can be replaced instead of buying a new valve.
- Seal kits available

### Curtis Superior Valve Co. Inc.

Curtis has produced, engineered, manufactured, and tested aircraft valves to exacting standards since 1944. They have over forty standard valves to solve a wide range of problems.

- Corrosion resistant, stainless steel springs
- Specially compounded "cure dated" synthetic rubber seals to withstand a wide variety of liquids over a broad temperature range.
- Unique wedge seal design prevents leakage

**New valves with replaceable seals!**  
P/Ns CCA-1800, CCA-1900, CCA-2000 and CCA-2100



## Fuel Drain Valve Selection Table

**Thread:** "UNF" (Fine thread) type are straight, non-sealing threads that rely on an o-ring to provide a seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specifications table on page 51 to determine the correct thread size.

**Locking:** Indicated valves lock in the open position for easy draining.

**Flush mounted:** Indicated valves are designed to mount flush with aircraft skin.

**Use Pin Type Cup:** Pin type cups similar to P/N CCA-39680 or MCCA-39680 may be used with indicated valves for sampling fuel.

**Open Action:** "Spiral" valves require a push and turn action to open, "Push" valves require a push action to open.

**Hose Adapter Size:** A hose may be attached to the indicated valves for ease of draining fuel. The size indicated is the hose I.D.

Thread	Locking	Flush Mounted	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	OEM	Part Number and Notes	See Figure on pg 52	Alternate P/Ns
			• Push				FAA-TSO-C76	FFC	FFCB-B187	3	82
			• Push				FAA-TSO-C76	FFC	FFCC-B187	3	83
			• Push				FAA-TSO-C76	FFC	FFCP-B187	3	84
	•		• Push		1/2"	360 Brass	FAA-TSO-C76	Curtis	C500	1B	10 CCA-3400
	•			Spiral	1/2"	Brass, Unplated	FAA-TSO-C76	Curtis	CCA-3400		42 C500
1/8 NPT				Push		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCB-36700		71 BJ1000AS1MY, CAV-110
1/8 NPT				Push	1/4"	14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-110H-4	1	12 BJ1000AH1
1/8 NPT				Spiral		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-36150		44 BJ1000AS1MY, CAV-110
1/8 NPT			• Push			14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-110	1	11 BJ1000AS1MY, CCA-1250, CCA-1550, CCA-36150, CCA-7450, CCB-36700
1/8 NPT			• Push			Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1800	New! 1	27 CAV-110, BJ1000AS1MY
1/8 NPT		•	• Push			1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA18	1 14	95 491-806, CCA-2500, F391-18, S2106-3
1/8 NPT		•	• Push			1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA187	1 14	96 491-806, CCA-250, F391-187, S2106-3
1/8 NPT		•	• Push			Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2500	7	36 491-806, F391-187B, F391-88, S2106-3, SA-18, SA-187
1/8 NPT	•			Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1550		23 1250, 492-100, 492-022, BJ1000AS1MY, BJ1000A-1, CAV-110
1/8 NPT	•		• Push			360 Brass	FAA-TSO-C76	SAF-AIR	1250	1	1 BJ1000A-1, CCA-1250, CCA-1550, CCA-7450
1/8 NPT	•		• Push		1/4"	360 Brass	FAA-TSO-C76	SAF-AIR	1250H	1	5 BJ1000AH1
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-4850		53 1250, 492-100, 492-022, BJ1000A-1
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-7450	6	62 BJ1000AS1MY, CAV-110, CCA-1250
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-9950	7	67
1/8 NPT	•			Spiral		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1250		19 1250, 492-100, 492-022, BJ1000A-1, BJ1000AS1MY, CAV-110
1/8 NPT	•			Spiral		Stainless Steel	FAA-TSO-C76	Curtis	CCB-36750	7	72 1250, 492-100, 492-022, BJ1000A-1, BJ1000A-2
1/4 NPT				Push		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-5900	7	59 BJ1000AS1MX, CAV-160
1/4 NPT				Push	1/4"	14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-160H-4	1	14 BJ1000AH2
1/4 NPT			• Push			14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-160	1	13 BJ1000AS1MX, CCA-1300, CCA-1600, CCA-4900
1/4 NPT			• Push			Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1900	New! 1	28 CAV-160, BJ1000AS1MX
1/4 NPT			• Push			304 Stainless	FAA-TSO-C76	SAF-AIR	SA-60S	1	100
1/4 NPT		•	• Push			1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA14	1	94 CCA-2600, F391-14
1/4 NPT		•	• Push			Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2600	7	37 F391-14, SA-14
1/4 NPT	•		• Push			360 Brass	FAA-TSO-C76	SAF-AIR	2500	1	2 BJ1000A-2, CCA-1300, CCA-1600, CCA-4900
1/4 NPT	•			Push	1/4"	360 Brass	FAA-TSO-C76	SAF-AIR	2500H	1	6 BJ1000AH2
1/4 NPT	•			Push		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-3600		43
1/4 NPT	•			Push		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-4800	7	52
1/4 NPT	•			Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1600		24 2500, BJ1000A-2
1/4 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO-C76	Curtis	CCA-4900		54 2500, BJ1000A-2
1/4 NPT	•			Spiral		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-1300		20 2500, BJ1000A-2

Continued on the next page





**Fuel Drain Valve Selection Table** (continued from previous page)

Thread	Locking Type	Flush Mounted Type	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	OEM	Part Number and Notes	See Figure on pg 52	Alternate P/Ns	
1/4 NPT	•			Spiral		Stainless Steel	FAA-TSO-C76 <sup>4</sup>	Curtis	CCA-39000	46		
3/8 NPT	•			Push		Brass, Unplated	FAA-TSO-C76 <sup>5</sup>	Curtis	CCA-1650	25	BJ1000A-3, P3750	
3/8 NPT	•		•	Push		360 Brass	FAA-TSO-C76	SAF-AIR	P3750	1	87	
3/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>5</sup>	Curtis	CCA-4950	55	BJ1000A-3, P3750	
3/8 NPT	•			Spiral		Brass, Unplated	FAA-TSO-C76 <sup>5</sup>	Curtis	CCA-1350	21		
3/8-24 UNF			•	Push		14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-180	1	1100B52Z	
3/8-24 UNF				Push	1/4"	14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-180H-4	1	18	
3/8-24 UNF			•	Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2000 <b>New!</b>	1	29	
3/8-24 UNF		•	•	Push		1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA32	1	97	
3/8-24 UNF		•	•	Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2700	7	38	
3/8-24 UNF	•		•	Push		360 Brass	FAA-TSO-C76	SAF-AIR	3750	1	3	
3/8-24 UNF	•			Push	1/4"	360 Brass	FAA-TSO-C76	SAF-AIR	3750H	1	7	
1/2-20 UNF		•	•	Push		1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA82	1	102	
1/2-20 UNF		•	•	Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2900	7	40	
1/2 NPT	•			Push		Brass, Unplated	FAA-TSO-C76 <sup>11</sup>	Curtis	CCA-1700	7	26	
1/2 NPT	•			Push	3/8"	Brass, Unplated	FAA-TSO-C76 <sup>9</sup>	Curtis	CCB-37000	7	73	
1/2 NPT	•			Spiral		Brass, Unplated	FAA-TSO-C76 <sup>11</sup>	Curtis	CCA-1400	7	22	
5/8-18 UNF	•			Spiral		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-39550	7	48	
5/8-18 UNF	•			Spiral	3/8"	Brass, Unplated	None	12	Curtis	CCA-39560	7	49
3/4-16 UNF		•	•	Push		Aluminum	FAA-TSO-C76	SAF-AIR	F75	1	81	
3/4-16 UNF		•		Push		Alum, Anodized	FAA-TSO-C76	SAF-AIR	SA5817-4C	4	99	
3/4-16 UNF		•		Spiral		Alum, Anodized		10	Curtis	CCB-36350-1	68	
3/4-16 UNF	•			Push		Alum, Anodized	None	12	Curtis	CCB-36450	69	
3/4-16 UNF	•			Push		Alum, Anodized		10	Curtis	CCB-36450-5	10	70
3/4-16 UNF	•			Push		Alum, Anodized		10	Curtis	CCB-37500	10	74
3/4-16 UNF	•			Spiral		Alum, Anodized		10	Curtis	CCA-7500	10	63
3/4-16 UNF	•			Spiral		Alum, Anodized		10	Curtis	CCA-7500-1	10	64
3/4-16 UNF	•			Spiral		Alum, Anodized		10	Curtis	CCA-7500-2	10	65
3/4-16 UNF	•			Spiral		Alum, Anodized		10	Curtis	CCB-7500-5	10	66
3/4-16 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>6</sup>	Curtis	CCA-7250	7	61	
7/16-20 UNF				Push		Alum, Anodized	FAA-TSO-C76	SAF-AIR	4350-6L	2	8	
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO-C76 <sup>7</sup>	Curtis	CCB-4320	7	75	
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO-C76 <sup>7</sup>	Curtis	CCA-5800-3	7	58	
7/16-20 UNF				Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>7</sup>	Curtis	CCA-5800-1	7	57	
7/16-20 UNF			•	Push		14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-170	1	15	
7/16-20 UNF				Push	1/4"	14L 12 Steel, Cad Plate	FAA-PMA	SAF-AIR	CAV-170H-4	1	16	
7/16-20 UNF			•	Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2100 <b>New!</b>	1	30	
7/16-20 UNF		•	•	Push		1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA53S	1	98	
7/16-20 UNF		•	•	Push		1144 Steel, Cad Plate	FAA-TSO-C76	SAF-AIR	SA72	1	101	
7/16-20 UNF		•	•	Push		Brass, Unplated	FAA-TSO-C76	Curtis	CCA-2800	7	39	
7/16-20 UNF	•		•	Push		360 Brass	FAA-TSO-C76	SAF-AIR	4375	1	4	
7/16-20 UNF	•			Push	1/4"	360 Brass	FAA-TSO-C76	SAF-AIR	4375H	1	9	
7/16-20 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>7</sup>	Curtis	CCA-4300	7	50	
7/16-20 UNF	•			Spiral	1/4"	Brass, Cad Plate	FAA-TSO-C76 <sup>9</sup>	Curtis	CCA-5400	7	56	
9/16-18 UNF				Push		Brass, Cad Plate	FAA-TSO-C76 <sup>8</sup>	Curtis	CCA-31300	7	41	
9/16-18 UNF				Spiral		Alum, Anodized Red	FAA-TSO-C76 <sup>8</sup>	Curtis	CCA-39500		47	
9/16-18 UNF				Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>8</sup>	Curtis	CCA-36400	7	45	
9/16-18 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>8</sup>	Curtis	CCA-4350	7	9	
9/16-18 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO-C76 <sup>11</sup>	Curtis	CCA-6000	7	60	

**Part Notes:**

- 1 Replacement O-rings: see tables to the right
- 2 Stem can be cut to length per the application
- 3 Used on bladder style wing tanks
- 4 Hose attaches to the valve with a 7/16-20 flare fitting
- 5 Can be used in highly corrosive applications such as salt water.
- 6 One arm stem with turn-to-lock action
- 7 Lock wire drilled
- 8 Button-style push action
- 9 With stem for turning action
- 10 With screwdriver slot
- 11 With screen over screwdriver slot and mounting hardware
- 12 With mounting hardware (washer & two nuts installed)
- 13 Meets lightning safety requirement Mil-C-38373, Paragraph 4.6.14
- 14 P/N SA18 has a hex size of 5/8". P/N SA187 has a hex size of 1/2".
- 15 Valve inlet is below the threads and o-ring seals against hex face. See figure 100 on page 62.

**Conformity Notes:**

- 1 Conforms to USAF Spec 28208
- 2 Conforms to USAF Spec 49F9798-49
- 3 Conforms to USAF Spec 28208 and 49F9798-49
- 4 Conforms to USAF Spec 28208 and 49F9798-50
- 5 Conforms to USAF Spec 28208 and 49F9798-51
- 6 Conforms to USAF Spec 28208, 49F9798-53 and MIL-V-25023
- 7 Conforms to USAF Spec 28208, 49F9798-52, MIL-V-25023 and MS29528-4
- 8 Conforms to USAF Spec 28208, 49F9798-53, MIL-V-25023 and MS29528-6
- 9 Conforms to USAF Spec 28208 and MIL-V-25023
- 10 Conforms to USAF Spec 28208, MIL-V-25023 and MS29571
- 11 Conforms to USAF Spec 49F9798-53 and MIL-V-25023
- 12 For non-certified aircraft only

**Replacement Seals**

See valves with note 1

**SAF-AIR Seal Kits**

Add "K" or "-K".



**Curtis Field Replaceable O-rings**

Fuel Valve P/N	Stem Seal O-ring P/N MS29513-007	Mounting O-ring P/N MS29513-011	Mounting O-ring P/N MS29513-012
CCA-1800	•		
CCA-1900	•		
CCA-2000	•	•	
CCA-2100	•		•

**Curtis Fuel Sampling Cup with McFarlane Logo**  
**P/N MCCA-39680**

- Stainless steel pin, and fuel resistant crystal clear plastic.
- Convenient no-mess method of draining fuel to inspect for proper grade and contaminants.
- Works with any quick drain valve designed for a pin type cup. Pin diameter is 1/8".



### Bladder Tank Valve Conversion Kits

Bladder tank valve kits replace any existing fuel drain valve on Beechcraft, Piper, or Cessna aircraft. Samples are taken by pushing against the surface of the wing instead of the rubber bladder tank, prolonging the life of the tank. Housing only sold separately, P/N B187-7.



Kit P/N	Aircraft	Approval
FFCB-B187	Beechcraft	FAA-TSO-C76
FFCC-B187	Cessna	FAA-TSO-C76
FFCP-B187	Piper	FAA-TSO-C76

Manufactured by Floats and Fuel Cells Inc

### Quick Drain Security Kits

Convenient kits prevent theft of fuel and tampering with valves.



Kit P/N	Kit Contains
CCA-39700-2	(2) CCA-39650 Quick Drain Valves <b>1</b> (2) CCA-39660 Quick Drain Locks (2) CCA-39670 Master Keys (1) CCA-39680 Fuel Sample Cup
CCA-39700-4	(4) CCA-39650 Quick Drain Valves <b>1</b> (4) CCA-39660 Quick Drain Locks (2) CCA-39670 Master Keys (1) CCA-39680 Fuel Sample Cup
CCA-39700-6	(6) CCA-39650 Quick Drain Valves <b>1</b> (6) CCA-39660 Quick Drain Locks (2) CCA-39670 Master Keys (1) CCA-39680 Fuel Sample Cup

**1** 1/8" NPT Thread, Push to open, Non-locking

### Flush Valve Fuel Plate

Supports applications where added stability is needed to mount a flush mount valve directly into a wet wing or fuel tank. CCB-36450-5 flush mounted fuel drain valve is included.

- 2.75" Overall Diameter
- 1 1/2" from mounting surface to bottom hole diameter
- For non-certified aircraft only



P/N	Description
PLT-275V	Flush Valve Fuel Plate without mounting holes. Includes CCB-36450-5 flush mounted drain valve.
PLT-275AV	Flush Valve Fuel Plate with mounting holes drilled. Includes CCB-36450-5 flush mounted drain valve.

Figures 1-102 Photos are not to scale relative to each other

1  1250 7/16-20 NPT	2  2500 1/4 NPT	3  3750 3/8-24 UNF	4  4375 7/16-20 UNF	5  1250H 1/8 NPT	6  2500H 1/4 NPT	7  3750H 3/8-24 UNF	8  4350-6L 7/16-20 UNF	9  4375H 7/16-20 UNF	10  C500	11  CAV-110 1/8 NPT	12  CAV-110H-4 1/8 NPT	13  CAV-160 1/4 NPT	14  CAV-160H-4 1/4 NPT	15  CAV-170 7/16-20 UNF
16  CAV-170H-4 7/16-20 UNF	17  CAV-180 3/8-24 UNF	18  CAV-180H-4 3/8-24 UNF	19  CCA-1250 1/8 NPT	20  CCA-1300 1/4 NPT	21  CCA-1350 3/8 NPT	22  CCA-1400 1/2 NPT	23  CCA-1550 3/8 NPT	24  CCA-1600 1/4 NPT	25  CCA-1650 3/8 NPT	26  CCA-1700 1/2 NPT	27  CCA-1800 1/8 NPT	28  CCA-1900 1/4 NPT	29  CCA-2000 3/8-24 UNF	30  CCA-2100 7/16-20 UNF
31  CCA-2440 14MM 1.50	32  CCA-2450 12MM 1.75	33  CCA-2460 1/2-20 UNF	34  CCA-2475 12MM 1.75	35  CCA-2485 1/2-20 UNF	36  CCA-2500 1/8 NPT	37  CCA-2600 1/2 NPT	38  CCA-2700 3/8-24 UNF	39  CCA-2800 7/16-20 UNF	40  CCA-2900 1/2-20 UNF	41  CCA-31300 9/16-18 UNF	42  CCA-3400	43  CCA-3600 1/4 NPT	44  CCA-36150 1/8 NPT	45  CCA-36400 9/16-18 UNF
46  CCA-39000 1/4 NPT	47  CCA-39500 9/16-18 UNF	48  CCA-39550 5/8-18 UNF	49  CCA-39560 5/8-18 UNF	50  CCA-4300 7/16-20 UNF	51  CCA-4350 9/16-18 UNF	52  CCA-4800 1/4 NPT	53  CCA-4850 1/8 NPT	54  CCA-4900 1/4 NPT	55  CCA-4950 3/8 NPT	56  CCA-5400 7/16-20 UNF	57  CCA-5800-1 7/16-20 UNF	58  CCA-5800-3 7/16-20 UNF	59  CCA-5900 1/4 NPT	60  CCA-6000 9/16-18 UNF
61  CCA-7250 3/4-16 UNF	62  CCA-7450 1/8 NPT	63  CCA-7500 3/4-16 UNF	64  CCA-7500-1 3/4-16 UNF	65  CCA-7500-2 3/4-16 UNF	66  CCB-7500-5 3/4-16 UNF	67  CCA-9950 1/8 NPT	68  CCB-36350-1 3/4-16 UNF	69  CCB-36450 3/4-16 UNF	70  CCB-36450-5 3/4-16 UNF	71  CCB-36700 1/8 NPT	72  CCB-36750 1/8 NPT	73  CCB-37000 1/2 NPT	74  CCB-37500 3/4-16 UNF	75  CCB-4320 7/16-20 UNF
76  F10 1"-18 UNF	77  F167 3/4-16 UNF	78  F175 3/4-14 NPT	79  F50 1/2-14 NPT	80  F62 5/8-18 UNF	81  F75 3/4-16 UNF	82  FFCB-B187	83  FFCC-B187	84  FFCP-B187	85  M12175 12MM 1.75	86  M20150 20MM 1.50	87  P3750 3/8 NPT	88  P5000 1/2-14 NPT	89  P7500 3/4-14 NPT	90  S1000 1"-18 UNF
91  S5020J 1/2-20 UNF	92  S6250 5/8-18 UNF	93  S7516 3/4-16 UNF	94  SA14 1/4 NPT	95  SA18 1/8 NPT	96  SA187 1/8 NPT	97  SA32 3/8-24 UNF	98  SA53S 7/16-20 UNF	99  SA5817-4C 3/4-16 UNF	100  SA-60S 1/4 NPT	101  SA72 1/6-20 UNF	102  SA82 1/2-20 UNF			





## Locking Oil Drain Valves

Feature a detent to lock in the open position.

### Oil Drain Valves Selection Guide

**Thread:** "UNF" (Fine thread) type are straight, non-sealing threads that rely on an o-ring to provide a seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Others are metric threads. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specification table in maintenance tips to determine the correct thread size.

**Open Action:** Spiral valves require a push and turn action to open.

**Hose Adapter:** A hose adapter may be attached to the indicated valves for ease of draining. The size indicates the hose I.D.



### Maintenance Tips:

Curtis Superior and SAF-AIR valves are designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 style port for UNF threaded valves. Use a sealant on NPT threaded valves or a fuel resistant o-ring of the proper size for UNF threaded valves. Refer to aircraft manufacturer's torque specifications for the aircraft in which it is being used or to the torque specifications in the table below for Curtis valves.

Keep valves reasonably clean and replace according to the prescribed synthetic rubber maintenance schedule for the specific aircraft or every 10 years per Curtis, whichever occurs first. Curtis Superior Valves cannot be overhauled. Replace the entire valve per the maintenance schedule of the aircraft or usable life per Curtis Superior Valve should it begin to leak.

SAF-AIR valves are designed to be disassembled and the o-rings replaced. Over time, if the valve should start to leak, check to make sure the drain valve is tight. If drain valve is found to be tight, then check the o-rings. All o-rings used are buna "n", MS29513 Style, MIL-P-5315. SAF-AIR o-ring seal kits are available for most of their valves. Add a "K" or "-K" suffix to the valve part number.

Thread	Open Action	Hose Adapter Size	Material	Approval	OEM	Part Number	See Figure on pg 52
1/2-14 NPT	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P5000	88
1/2-14 NPT	Spiral		360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F50	79
1/2-20 UNF	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S5020J	91
1/2-20 UNF	Spiral	3/8"	Brass, Unplated	None	6	Curtis CCA-2460	33
1/2-20 UNF	Spiral	3/8"	Brass, Unplated	None	6	Curtis CCA-2485	35
3/4-14 NPT	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P7500	89
3/4-14 NPT	Spiral		360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F175	78
3/4-16 UNF	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S7516	93
3/4-16 UNF	Spiral		360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F167	77
5/8-18 UNF	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S6250	92
5/8-18 UNF	Spiral		360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F62	80
1"-18 UNF	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S1000	90
1"-18 UNF	Spiral		360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F10	76
12MM 1.75	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M12175	85
12MM 1.75	Spiral	3/8"	Brass, Unplated	None	6	Curtis CCA-2450	32
12MM 1.75	Spiral	3/8"	Brass, Unplated	None	6	Curtis CCA-2475	34
14MM 1.50	Spiral	3/8"	Brass, Unplated	None	6	Curtis CCA-2440	31
20MM 1.50	Push		6061 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M20150	86

- 1 Includes P/N CCA-2450 valve and P/N CCA-2470 adapter
- 2 Includes P/N CCA-2460 valve and P/N CCA-2480 adapter
- 3 Replacement o-ring kits available. Add "K" or "-K" to valve part number.
- 4 Use replacement o-ring kit p/n P5000-K
- 5 Two piece, low profile valve. P/N F50-180 opener that attaches straight out of the valve is included. P/N F50-90 opener which attaches at a 90 angle is also available.
- 6 For non-certified aircraft only

## Quick Drain Hoses

Curtis Quick Drain Hoses are designed to work with the Curtis Quick Drain Valves. In most cases, a simple push and twist action locks the Quick Drain Hose in place. Waste liquid flows through five feet of high grade vinyl tubing, preventing messy spills and making a safer, cleaner environment. Tubing will not harden in sub-freezing temperatures.



P/N	Connector Color	Used with Valve P/N
CCB-39600-1	Black	CCA-1400, CCA-1700, CCA-39550
CCB-39600-2	Blue	CCA-1350, CCA-2450, CCA-1650, CCA-4950
CCB-39600-3	Yellow	CCA-1300, CCA-1600, CCA-3400, CCA-3600, CCA-4800, CCA-4900, CCA-39000
CCB-39600-4	Silver	CCA-4350, CCA-7250, CCA-36400, CCB-36650
CCB-39600-5	Brass	CCA-1250, CCA-1550, CCA-4300, CCA-7450, CCA-9950, CCB-36750

Manufactured by Curtis Superior Drain Co., Inc.

## Oil Drain Valve Adapters and Openers

Used with CCA-2450 and CCA-2460 oil drain valves to adapt to Rotax and Jaribu engines.

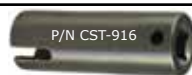
Adapters are for non-certified aircraft only.



P/N	Thread	Material	Description
CCA-2470	12MM 1.75	Aluminum	Rotax 90-Degree adapter for CCA-2450 oil drain valve
CCA-2474			
CCA-2480	1/2-20 UNF	Aluminum	Jaribu 90-Degree adapter for CCA-2460 oil drain valve
F50-90			Opener - attaches at a 90 degree angle from valve.
F50-180			Opener - attaches straight out of the valve.

## Installation Sockets

Used to torque valves to desired specifications and also prevents valve damage upon installation and removal.



P/N	For use with valve P/N
CST-78	Fits all 7/8 Hex Valves CCA-1400, CCA-1700, CCB-37000, CCA-39550, CCA-39560
CST-716	Fits all 7/16 Hex Valves CCA-1250, CCA-1550, CCA-4850, CCA-7450, CCA-9950, CCA-36150, CCA-36750
CST-916	Fits all 9/16 Hex Valves CCA-1300, CCA-1600, CCA-3600, CCA-4800, CCA-4900, CCA-5900, CCA-39000
CST-1116	Fits all 11/16 Hex Valves CCA-1350, CCA-1650, CCA-2440, CCA-2450, CCA-2460, CCA-4320, CCA-4950, CCA-5400, CCA-5800-1
CST-36450	For removal of certain Curtis flush mounted valves CCB-36450, CCB-36450-5

Order online at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or Call 844-567-5855

## Thread Specifications

Thread O.D.	Thread	Curtis Torque Spec
0.375	3/8-24 UNF	80-85 In. Lbs
0.405	1/8-27 NPT	40-45 In. Lbs
0.438	7/16-20 UNF	80-85 In. Lbs
0.500	1/2-20 UNF	80-85 In. Lbs
0.540	1/4-18 NPT	80-85 In. Lbs
0.563	9/16-18 UNF	80-85 In. Lbs
0.625	5/8-18 UNF	100-115 In. Lbs
0.675	3/8-18 NPT	105-115 In. Lbs
0.750	3/4-16 UNF	80-85 In. Lbs
0.840	1/2-14 NPT	155-165 In. Lbs

## Special Threads with Crush Washers

Valve P/N	Thread	Curtis Torque Spec
CCA-2450	12MM 1.75	60-75 In. Lbs
CCA-2460	1/2-20	60-70 In. Lbs
CCA-2470	12MM 1.75	60-70 In. Lbs
CCA-2480	12-50	60-70 In. Lbs

## Replacement Curtis Style Seals

Curtis style seals are also available for use with Curtis Superior valve p/ns CCA-4850 and CCA-3400 when used on certain Beech B55, E55, and 58 series aircraft as shown below.

Seal P/N	Valve P/N	Aircraft	Serial Number
CACCA1269	CCA-4850	B55	TC-1608 thru TC-2071
		E55	TE-938, TE-943 thru TE-1102
		58	TH-1 thru TH-2124
CACCA1319	CCA-3400	B55	TC-1608 and On
		E55	TE-938, TE-943 and On
		58	TH-1 thru TH-2124

P/Ns CACCA1269 and CCA1319 use with autogas not recommended.

Manufactured by PMA Products Inc.



Part Number	ID	OD	Thickness
CACCA1269	.100	.280 - .285	.064 - .068
CACCA1319	.150	.350	.058

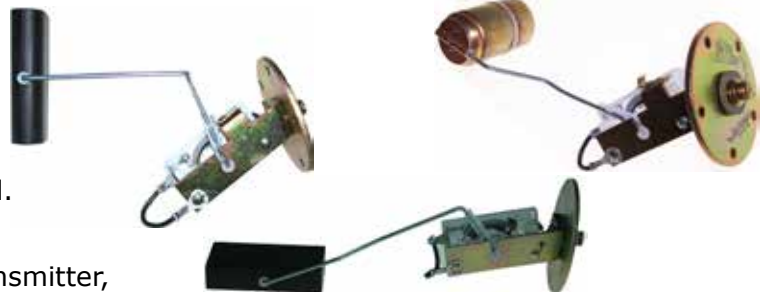
Dimensions are in inches



**Fuel Quantity Transmitters for Cessna and Piper Aircraft**

McFarlane fuel quantity transmitters are direct replacements for originally installed Stewart Warner type fuel quantity transmitters. Eliminates the need for expensive transmitter conversion kits that require replacement of fuel gauges and wiring. McFarlane fuel quantity transmitters are engineered to be compatible with the original fuel quantity gauge and wiring which uses time proven technology and reliability. Each McFarlane fuel quantity transmitter is manufactured using the new Stewart Warner "thick film ceramic" resistor technology. The benefits are longer life and increased accuracy. All components are thoroughly tested to ensure reliable operation.

- Save hundreds of dollars!
- More accurate and lasts longer!
- Stewart Warner thick film resistor technology
- Direct replacement for original factory installed.



**Convenient Kits**

Available individually or as kits including one transmitter, gasket(s) and screw/seal assemblies as applicable.

*See the following pages for use eligibility.*

**Installation Warning:**

*Do not replace the Rochester fuel quantity transmitter with the Stewart Warner transmitters. The electrical function is not compatible. Stewart Warner transmitters must be used to replace Stewart Warner transmitters only. Replacing the Rochester transmitter with the Stewart Warner transmitter will result in erroneous fuel quantity indications.*

*Some Cessna and Piper aircraft have been modified with a Service Kit to use the Rochester fuel quantity indicating system. This modification required changing the fuel quantity gage, transmitter, and other electrical components. Do not use the McFarlane (Stewart Warner) transmitters as a replacement for these aircraft.*

*McFarlane transmitters for Piper aircraft are not compatible with serial numbers other than those listed in the eligibility data.*

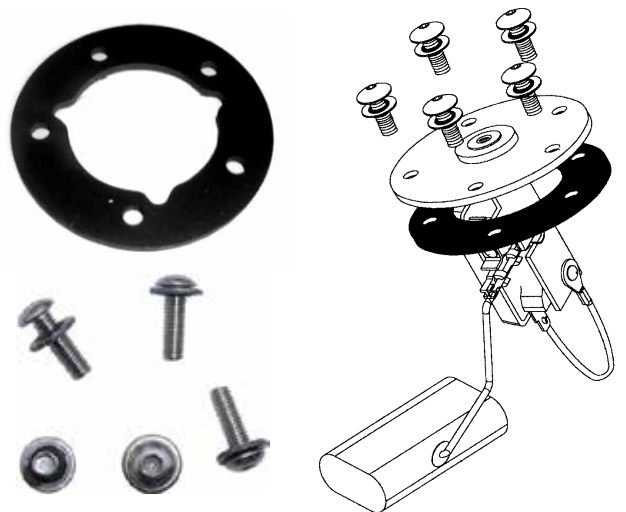


**Gaskets and Screw-Seal Assemblies for Cessna and Piper Aircraft**

**McFarlane fuel quantity transmitter gaskets** are made from Dupont Viton®. Viton is the premier elastomer of the aerospace industry, offering flexibility and fuel resistance at all temperature extremes. Viton gaskets will not dry out or shrink like cork gaskets and do not harden with age like gaskets made from other elastomers. McFarlane gaskets are available for most single engine Cessna and Piper aircraft.

**McFarlane screw-seal assemblies for Cessna aircraft** have been engineered to eliminate chronic problems associated with fuel quantity transmitter hardware. Hex drive screws made from stainless steel eliminate the corrosion process. The hex drive promotes ease of installation and eliminates the necessity for destructive down pressure during transmitter screw removal and installation. The stainless steel/Viton seal used on the hex drive screw provides a positive seal around the screw. No more leaks and seeps!

**McFarlane screw-seal assemblies for Piper aircraft** use the same time proven seals as our Cessna screw/seal assemblies but use a slotted screw with safety wire holes.



*See the following pages for use eligibility.*

**Fuel Transmitter Access Cover Gasket for Cessna Aircraft**

**Part Number MC0523619-1**

- Retains position and shape with an adhesive backing!
- Prevents rain and occasional fuel spill from entering the wing!
- Available separately or in fuel quantity transmitter kits FQT-KT-1 and FQT-KT-2.
- Fits most Cessna aircraft with a fuel transmitter access opening on the top of the wing.

*See the following pages for use eligibility.*







## Cessna Aircraft Installation Eligibility for Transmitters, Gaskets and Screw-Seal Assemblies

Aircraft Model	Eligible Serial Numbers	Fuel Quantity Transmitter	Fuel Quantity Transmitter Gasket	Screw/Seal Assembly	Fuel Quantity Transmitter Kit
150 150A,B,C,D,E,F,G,H,J,K,L,M A150K,L,M F150F,G,H,J,L,M FA150K,L FRA150L,M	17001 thru 59018 15059019 thru 15079405 A1500001 thru A1500734 F1500001 thru F1500390 FA1500001 thru FA1500120 FRA1500121 thru FRA1500336	Standard Tanks MC0426517-1 <b>2</b>	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 Replaces Cessna part numbers S350, AN960D10L and AN52010R8 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter	FQT-KT-1 <b>9</b>
150J <b>1</b> F150J <b>1</b>	15069455 thru 15071128 F1500490 thru F1500529	Patrol Tanks N/A	MCS1588-1	MCS35010R14 Replaces Cessna part numbers S350, AN960D10L and AN52010R14 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter	N/A
152 A152 F152 FA152	15279406 thru 15286033 A1520735 thru A1521049 F15201429 thru F15201980 FA1520337 thru FA1520425	Standard Tanks N/A Extended Range Tanks N/A	MCS1588-1	MCS35010R10 Replaces Cessna part numbers S350, AN960D10L and AN52010R10 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter	N/A
172,172A, 172B,C,D,E,F,G,H,I,J,K,L,M,N,P <b>1</b> F172D,E,F,G,H,K,L,M FR172E,F,G,H,J,K R172K FP172 P172D	36966 thru 47746 17247747 thru 17276516 F1720001 thru F17201234 FR17200001 thru FR17200675 R1722000 thru 1723454 FP1720001 thru FP1720003 P17257120 thru P17257188	MC0523557-1 See Notes <b>3</b> , <b>4</b> , <b>5</b>	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 Replaces Cessna Part Numbers S350, AN960D10L and AN52010R10 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter	FQT-KT-2 <b>9</b>
175, 175A,B,C	55001 thru 17557119	MC0523557-1	MCS1588-1 MC0523619-1 (access cover gasket)	MCS35010R10 Replaces Cessna Part Numbers S350, AN960D10L and AN52010R10 when used to secure the fuel quantity transmitter. Quantity of 5 required per transmitter	FQT-KT-2 <b>9</b>
180A,B,C,D,E,F,G,H,J,K <b>1</b>	32662 thru 18053000	MC0726110-1 <b>5</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-3 <b>9</b>
182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q <b>1</b> A182J,K,L,M,N F182P,Q <b>1</b>	33843 thru 18266590 A1820001 thru A1820148 F1820001 thru F18200094	MC0726110-1 <b>5</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-3 <b>9</b>
185,185A,B,C,D,E, A185E,F <b>1</b>	1850001 thru 18503683	MC0726110-1 <b>5</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-3 <b>9</b>
188A, A188, A188A A188B T188C	1880445 thru 18803856 18802349T thru 18803968T T18803297T thru T18803968T	MCC668002-0201 <b>6</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-4 <b>9</b>
210-5 (205), 210-5A (205A)	2050001 thru 2050577	MC0726110-1 <b>5</b>	MCS1588-2 Quantity 2	MS35207-264 <b>7</b>	FQT-KT-5 <b>9</b>
206,U206,U206A,B,C,D,E,F,G <b>1</b> TU206A,B,C,D,E,F,G <b>1</b> P206,P206A,B,C,D,E,F,G <b>1</b> TP206A,B,C,D,E	2060001 thru U20604649	MC0726110-1 <b>5</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-3 <b>9</b>
207,207A <b>1</b> /T207,T207A <b>1</b>	20700001 thru 20700482	MC0726110-1 <b>5</b>	MCS1588-1	MS35207-264 <b>7</b>	FQT-KT-6 <b>9</b>
210,A,B,C,D,E,F/T210F	21057001 thru 21058818	MC0726110-1 <b>5</b>	MCS1588-1 <b>8</b> MCS1588-2 <b>8</b>	MS35207-264 <b>7</b>	FQT-KT-3 <b>9</b>

- 1** Partial model eligibility
- 2** This transmitter does not fit aircraft equipped with extended range fuel tanks.
- 3** Do not use this transmitter with gauge cluster P/N C669562-108 (Rochester® manufacture). This gage cluster could have been factory installed on aircraft built in 1978 or newer beginning with S/N 17269310.
- 4** Do not use this transmitter in aircraft with extended range fuel tanks with gage cluster P/N C669562-0109 (Rochester® manufacture). This gage cluster could have been factory installed on aircraft built in 1979 or newer beginning with S/N 17271035.
- 5** Includes aircraft with extended range fuel tanks.
- 6** 188 model series with wing fuel tanks only.
- 7** A seal is not used in this application. P/N MS35207-264 supercedes P/N AN52010R10. P/N MS35207-264 is an industry standard hardware component.
- 8** Where both MCS1588-1 (thick gasket) and MCS1588-2 (thin gasket) are required, install MCS1588-1 between the transmitter and rib and install MCS1588-2 between the fuel cell and rib.
- 9** Each kit contains one transmitter, one or two gaskets and five screws or screw/seal assemblies as applicable. The fuel transmitter access cover gasket P/N MC0523619-1 is included when purchasing kit P/N FQT-KT-1 and FQT-KT-2.



FAA-PMA Approved

**Piper Aircraft Installation Eligibility for Transmitters, Gaskets and Screw-Seal Assemblies**

Aircraft Model	Eligible Serial Numbers	Fuel Quantity Transmitter	Fuel Quantity Transmitter Gasket	Screw/Seal Assemblies	Fuel Quantity Transmitter Kit
PA28-140	28-20551 thru 28-26956, 28-7125001 thru 28-7125651 28-7225001 thru 28-7225612, 28-7325001 thru 28-7325684 28-7425001 thru 28-7425454, 28-7525001 thru 28-7525350 28-7625001 thru 28-7625234, 28-7725001 thru 28-7725290	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28-150	28-1761 thru 28-4377	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28-151	28-7415001 thru 28-7415703, 28-7515001 thru 28-7515449 28-7615002 thru 28-7615435, 28-7715001 thru 28-7715314	MC68101-02	MC461-931	MC1802	FQTP-KT-2
PA28-160	28-1761 thru 28-4377	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28-161	28-7716002 thru 28-7716323, 28-7816001 thru 28-7816680 28-7916001 thru 28-7916598, 28-8016001 thru 28-8016373 28-8116001 thru 28-8116268, 28-8216007, 28-8216014, 28-8216017, 28-8216019, 28-8216021	MC68101-02	MC461-931	MC1802	FQTP-KT-2
PA28-180	28-1761 thru 28-5869, 28-7105001 thru 28-7105244 28-7205001 thru 28-7205328, 28-7305001 thru 28-7305611 28-7405001 thru 28-7405290, 28-7505001 thru 28-7505261	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28-181	28-7690001 thru 28-7690467, 28-7790001 thru 28-7790607 28-7890001 thru 28-7890551, 28-7990001 thru 28-7990589 28-8090001 thru 28-8090372, 28-8190001 thru 28-8190279 28-8290017, 28-8290018, 28-8290028, 28-8290033 28-8290034, 28-8290036	MC68101-02	MC461-931	MC1802	FQTP-KT-2
PA28R-180	28R-30005 thru 28R-30481, 28R-30483 thru 28R-31279 28R-7130001 thru 28R-7130019	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28R-200	28R-30482, 28R-35001 thru 28R-35830 28R-7135001 thru 28R-7135238, 28R-7235001 thru 28R-7235330 28R-7335001 thru 28R-7335455, 28R-7435001 thru 28R-7435331 28R-7535001 thru 28R-7535393, 28R-7635001 thru 28R-7635545	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA28-235	28-10003 thru 28-11393, 28-7110001 thru 28-7110042 28-7210001 thru 28-7210033, 28-7310001 thru 28-7310187 28-7410001 thru 28-7410120, 28-7510001 thru 28-7510145 28-7610001 thru 28-7610206, 28-7710001 thru 28-7710089	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA32-260	32-1 thru 32-1320 32-7100001 thru 32-7100038, 32-7200001 thru 32-7200055 32-7300001 thru 32-7300076, 32-7400001 thru 32-7400061 32-7500001 thru 32-7500053, 32-7600001 thru 32-7600033 32-7700001 thru 32-7700023, 32-7800001 thru 32-7800008	MC68101-02	MC462-021	MC1802	FQTP-KT-1
PA32-300	32-40000 thru 32-41018, 32-7140001 thru 32-7140086, 32-7240001 thru 32-7240147 32-7340001 thru 32-7340201, 32-7440001 thru 32-7440182 32-7540001 thru 32-7540198, 32-7640001 thru 32-7640142 32-7740001 thru 32-7740113, 32-7840001 thru 32-7840222	MC68101-02	MC462-021	MC1802	FQTP-KT-1

- 1 Transmitter is not interchangeable with "Rochester type" fuel quantity transmitters. Transmitter is not to be used in aircraft equipped with Rochester manufactured fuel gauges that may have been installed as a Piper service spare part, in accordance with a Piper Service Kit.
- 2 Each kit contains (1) Transmitter, (1) Gasket and (5) Screw/Seal Assemblies

**Fuel Caps for Piper Aircraft**

**Improved materials and better design**

- Fuel caps with "CA" prefix have fuel resistant elastomer to resist swelling, and a stronger lever that resists bending.
- P/N 3267 is a vented cap with a vertical fin on top for easy removal and made of stainless steel to prevent corrosion.

P/N	Cap	Replaces OEM P/N	Eligible Models
3267	Vented	10188-00, 454009	PA-11, PA-11S, PA-12, PA-12S, PA-14, PA-18, PA-20, PA-22 Series
CA16097N	Vented	160297-000	PA-23-235 and PA-23-250, s/n 27-1 thru 27-7554168
CA17672N	Vented	454-084, 17672-000	PA-23, PA-23-160
CA27221N	Non-vented	27221-00, 554-180	PA-24-180,-250,-260,-400, PA-30,PA-39



P/N CA16097N



P/N 3267

Manufactured by PMA Products, Inc. and F Atlee Dodge

**Fuel Cap Seals for Piper, Beech, Mooney, and Cessna Citations**

**Don't pay \$750.00 for a fuel cap when you only need to replace the seal!**

- Part numbers CA38241 and CA457-98:
  - The only seals that legally replace the main seal on many Beech, Cessna and Mooney fuel caps
  - Made of a fluorosilicone material with unlimited shelf life
  - CA38241: Molded seal with a lip - designed for "lightning proof" fuel caps
  - CA457-98: Round o-ring seal
- Part number CA66815-000: Round o-ring seal made of a nitrile rubber (Buna-N) (use with autogas not recommended)



Part Number	Replaces OEM P/N	Eligible Models
CA38241	Beech p/n 38241, 38283 used with p/n 38339, 100-381005-1 or 100-381005-5 fuel caps only	99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200T,B200C,B200CT,B300,B300C,1900,1900C,1900D
	Cessna Mooney seals used with p/n 457-370 fuel caps only	525 s/n 0549 and On, 650 s/n 0001 thru 0101 incorporating SB650-28-23, and 0102 and On, 680,750 M20C,D,E,F,G,J (with O&N Aircraft Mod. fuel bladders per STC SA2277CE and SA2350CE)
CA457-98	Beech p/n 457-98, 457-98-1	E90,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200T,B200C,B200CT
CA66815-000	Piper p/n 66815-000, 462-056 used with fuel cap assemblies p/n 66817-00, 39824-02, 38599-02 or 66817-02 only	PA-28-140,PA-28-150,-160,-180 s/n 27-1761 and On,PA-28-235, PA-28R-180 s/n 28R-30005 thru 28R-7130019, PA-28R-200 s/n 28R-30482, 28R-35001 thru 28F-7135238,PA-28-151,-161,PA-28-181,PA-28-236,PA-28-201T,PA-28-201, PA-28RT-201, -201T,PA32-260 s/n 32-1 and On,PA-32-300 s/n 32-40000 thru 32-7840222 and 32-7940001 and On,PA-32R-300 s/n 32R-7680001 and On, PA-32RT-300,PA-32RT-300T,PA-32R-301, PA-32R-301T,PA-32-301,301T,PA-38-112,PA-34-200,PA-34-220T,PA-44-180,-180T

Manufactured by PMA Products, Inc.

## Cessna Fuel Filler Neck and Fuel Tank Adapter Gaskets

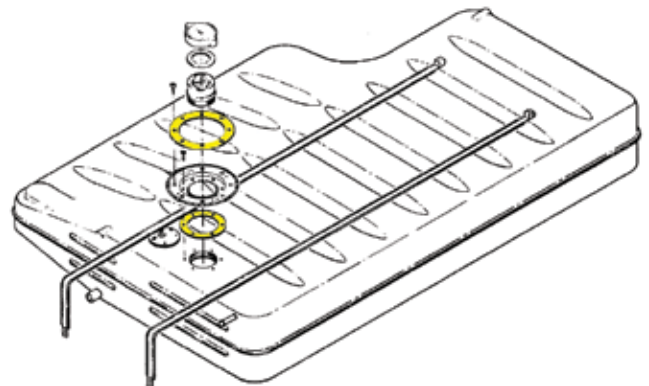
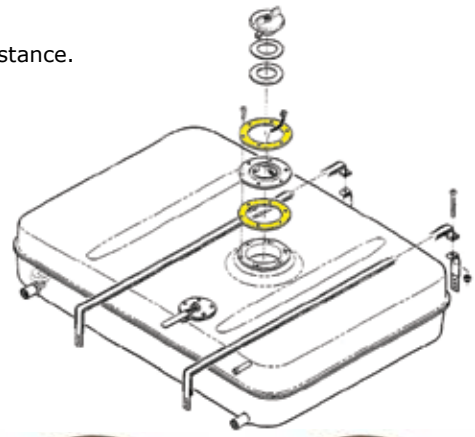
Replace dry, brittle gaskets to prevent water contamination in fuel. Gaskets required to seal between the wing skin, fuel filler neck, fuel tank adapter and fuel tank.

**New!**

- Approved for most Cessnas with metal tanks
- Cork/rubber composite gaskets meet strict MIL-SPEC requirements for fuel resistance.
- Never reuse these gaskets
- Keeps water and contaminated spilled fuel out of the wings and fuel tanks.

Aircraft	Serial Number	Qty per Aircraft	Part Number
140A	All	2	MC0523531
		2	MC0523532
150, 150A,B,C,D,E,F,G,H, <b>J</b> <sup>1</sup>	17001 thru 15069454	2	MC0523531
		4	MC0523532
150 <b>J</b> <sup>1</sup>	15069455 thru 15071128	2	MC0523531
		4 <b>2</b>	MC0523532
150K, <b>L</b> <sup>1</sup>	15071129 thru 15072628	2	MC0523531
		4 <b>2</b>	MC0523532
150 <b>L</b> <sup>1</sup> ,M	15072629 thru 15079405	2	MC0426013-1
		2	MC0426013-2
A150K, <b>L</b> <sup>1</sup>	A1500001 thru A1500276	2	MC0523531
		4 <b>2</b>	MC0523532
A150 <b>L</b> <sup>1</sup> ,M	A1500277 thru A1500734	2	MC0426013-1
		2	MC0426013-2
F150F,G,H,J	All	2	MC0523531
		4	MC0523532
F150K, <b>L</b> <sup>1</sup>	F15000530 thru F15000738	2	MC0523531
		4 <b>2</b>	MC0523532
F150 <b>L</b> <sup>1</sup> ,M	F15000739 thru F15001428	2	MC0426013-1
		2	MC0426013-2
FA150K, <b>L</b> <sup>1</sup>	FA1500001 thru FA1500166	2	MC0523531
		4 <b>2</b>	MC0523532
FA150 <b>L</b> <sup>1</sup> ,M	FA1500167 thru FA1500336	2	MC0426013-1
		2	MC0426013-2
152, A152, F152, FA152	All	2	MC0426013-1
		2	MC0426013-2
170A	All	A/R	MC0523531
		4	MC0523532
170B	All	2	MC0523531
		4	MC0523532
172, 172A,B,C,D,E,F,G,H,I	All	2	MC0523531
		4	MC0523532
172K, <b>L</b> <sup>1</sup>	17257162 thru 17259823	2	MC0523531
		4	MC0523532
172 <b>L</b> <sup>1</sup>	17259824 thru 17259903	2	MC0523531
		4	MC0523532
172 <b>L</b> <sup>1</sup> ,M <sup>1</sup>	17259904 thru 17263458	2	MC0426013-1
		2	MC0426013-2
172M <sup>1</sup> ,N,P,Q	17263459 thru 17276654	2	MC0523531
		2	MC0426013-2
F172D,E,F,G,H <sup>1</sup>	F172-0001 thru F172-0559	2	MC0523531
		4	MC0523532
F172H <sup>1</sup> ,K	F172-0560 thru F17200804	2	MC0523531
		4	MC0523532
F172 <b>L</b> ,M <sup>1</sup>	F17200805 thru F17201234	2	MC0426013-1
		2	MC0426013-2
F172M <sup>1</sup> ,N,P	F17201235 thru F17202254	2	MC0523531
		4	MC0523532
FP172, P172D	All	2	MC0523531
		4	MC0523532
FR172E,F,G,H <sup>1</sup>	FR17200001 thru FR17200300	2	MC0523531
		4	MC0523532
FR172H <sup>1</sup> , <b>J</b> ,K	FR17200301 thru FR17200675	2	MC0426013-1
		2	MC0523531
R172E,F,G,H <sup>1</sup>	R172-0302 thru R1720494	4	MC0523532
		2	MC0426013-2
R172H <sup>1</sup>	R1720495 thru R1720620	2	MC0426013-1
		2	MC0426013-2
R172K	R1722000 thru R1723454	2	MC0523531
		4	MC0523532
175, 175A,B,C	All	2	MC0523531
		4	MC0523532

<sup>1</sup> Partial model eligibility.  
<sup>2</sup> Requires 8 each per aircraft for aircraft with long range tanks.



**Improved Upper Gasket P/N MC0523531**  
 Thicker, softer material for a better seal around the tinnerman clips.



## Fuel Bowl Gaskets for Cessna 300 and 400 Series Aircraft

Part Number	Replaces OEM P/N	Eligible Models
CAB3-11-1	Cessna P/N CAB3-11-1	300 series (except 303), 400 series (except 402C,406,425,441)



Manufactured by  
 PMA Products, Inc.



FAA-PMA Approved

**Marvel-Schebler Fuel Inlet Screen Gaskets and Cotter Keys**

The copper gaskets should be changed when finger screens are inspected at each annual inspection.

- Fits many carbureted aircraft!
- Cad plated for corrosion resistance!
- Save up to 70%!



**Fuel and Alcohol Pumps for Cessna, Piper, and Beech Aircraft**

**Save over \$400 off OEM List!**

- FAA-PMA approved - unconditional one year warranty
- Modern solid state pumps - more dependable and use less current than the old breaker point pumps
- Internal check valve to prevent backflow
- Replacement filter kit p/n CA42370 available for Piper and Beechcraft pumps



P/N CA6508092-1A

P/N CA476284E-1

Part Number	Replaces OEM P/N	Eligible Models
CA476284E-1	Beechcraft p/n 476284	55,A55,B55,C55,D55,E55,56TC,A56TC,58,58P,58TC,60,A60,B60,A65,70,B80,E95,C90,E90, F90 s/n LA-2 thru LA-56,100,A100 s/n B-1 thru B-247,200 s/n BB-2 thru BB-665,200T s/n BT-1 thru BT-16, 200C s/n BL-1 thru BL-9,99,99A,A99A,B99,C99,T-34C s/n GL-1 and On,T-44A
CA6508092-1A	Cessna p/n 476411, 6508091-1, and 6508092	310Q,310R,335,340,340A,410B,402B,402C,404,414,414A,421B,425,441,525,560,650
CA35328-800E	Piper p/n 35328-800 and 481-666 (STC)	PA23, PA-23-150,-160,-235,-250,-250 (6 place), s/n 27-1 thru 27-2504 (14v), PA24, PA-24-180,-250,-260, s/n 24-3642,24-4000 thru -4782, and 24-4781 thru -4803,PA-28-140,-150,-160,-180,PA-28-151,-161 (14v),-181 s/n 28-7690001 thru -7990626 and -8090001 and On (14v),PA-38-112
CA65628-800E	Piper p/n 65628-800 (STC)	PA-28-235,-236,PA-32-260,PA-44-180 with STC SA02579AT installed

Manufactured by PMA Products, Inc.

**Fuel Selector and Fuel Shut-Off Valves For Cessna Aircraft**

**Repaired Valves**

We can repair your valve or you can purchase one from our stock and return yours for core credit. Many valves are in stock and ready to ship!

- Repaired by experienced A&P technicians.
- Cleaned, inspected and assembled with all new fluorocarbon o-rings, seals, gaskets, hardware and parts as required.
- Pressure tested for leaks and evaluated for proper fuel flow.
- "Return to Service" tag provided.



**Repair kits - part numbers FSO-KT-1 thru FSO-KT-24**

Contains all required hardware to reseal and perform a repair (seals, springs, o-rings, roll pins, washers, screws, balls and plug). FSO-KT-1 for 0716613 series valves includes the parts contained in Cessna P/N 0716613-200 and -201 seal kits plus additional hardware required for a basic repair. All parts are FAA approved or certified industry standard hardware.



**Many Cessna Fuel valves (including the 0716613 series) require special tools and processes for reassembly. For convenience an experienced A&P technician at McFarlane can repair your valve. See above for details.**

**Seal Kits - part numbers FSS-KT-1 thru FSS-KT-20**

**Only McFarlane has FAA approval to replace the old, less fuel resistant o-rings with the latest fuel-proof fluorocarbon o-rings!**

Fuel Selector Valve and Shut Off Valve Seal kits are conveniently packaged to include all of the necessary o-rings and/or gaskets applicable to specific single engine Cessna aircraft models. McFarlane replaces the old Buna N or Nitrile (MS Series) o-rings and early synthetic rubber (NAS Series) o-rings with fluorocarbon elastomer, which has improved fuel and heat resistance. Cork/Rubber gaskets meet tough government standards for fuel resistance.



**Replacement Parts**

McFarlane has a complete line of replacement parts for Cessna fuel valves including detent plates, springs, plastic seals, cams and much more in stock and ready to ship.

**Gaskets and O-rings**

Gaskets can be purchased individually or as convenient kits. O-Rings can be purchased in quantities of 10 each or as convenient kits!



See the following pages for kit and valve eligibility.

**Maintenance Tip:**

The fuel selector valve works in unscreened fuel. Contaminated fuel can cause selector valve seal damage. When fueling from possibly contaminated fuel sources McFarlane recommends the use of a fuel filter, such as Mr. Funnel or another filtering device, to reduce trash in the fuel system.

See page 200 for additional information on Mr. Funnel fuel filters





# Fuel System Parts



FAA-PMA Approved

## Eligibility for Repaired Fuel Selector and Fuel Shut Off Valves and Kits for Cessna Aircraft

Model	Serial Number	Fuel Selector Valve			Fuel Shut-Off Valve		
		Part Number	Seal Kit	Repair Kit	Part Number	Seal Kit	Repair Kit
120,140	8001 thru 15075	0411716S, 108HD1/4X1/4X1S					
140A	15200 thru 15724	0413020-3S					
150 <sup>1</sup>	17001 thru 17769				0411803-2S 9851078-2S <sup>3</sup>		
150 <sup>1</sup> , 150A,B,C,D,E,F,G	17770 thru 15067198				0411803-5S 0411803-6S		
150H,J,K,L <sup>1</sup>	15067199 thru 15073658				0411803-6S		
150L <sup>1</sup> ,M <sup>1</sup>	15073659 thru 15078505				0411803-8S		
150M <sup>1</sup>	15078506 thru 15079405				9851070-2S	FSS-KT-1	FSO-KT-2
A150K,L <sup>1</sup>	A1500001 thru A1500342				0411803-6S		
A150L <sup>1</sup>	A1500343 thru A1500523				0411803-8S		
A150L <sup>1</sup>	A1501001 thru A1501018				0411803-6S		
A150L <sup>1</sup> ,M <sup>1</sup>	A1501019 thru A1500684				0411803-8S		
A150M <sup>1</sup>	A1500685 thru A1500734				9851070-2S	FSS-KT-1	FSO-KT-2
A-A150L <sup>1</sup>	A-A1500001 thru A-A1500006				0411803-6S		
A-A150L <sup>1</sup>	A-A1500007 thru A-A1500009				0411803-8S		
F150F,G,H,J,K,L <sup>1</sup>	F150-0001 thru F15000863				0411803-6S		
F150L <sup>1</sup> ,M <sup>1</sup>	F15000864 thru F15001338				0411803-8S		
F150M <sup>1</sup>	F15001339 thru F15001428				9851070-2S	FSS-KT-1	FSO-KT-2
FA150K,L <sup>1</sup>	FA1500001 thru FA1500166				0411803-6S		
FA150L <sup>1</sup> ,M <sup>1</sup>	FA1500167 thru FA1500311				0411803-8S		
FA150M <sup>1</sup>	FA1500312 thru FA1500336				9851070-2S	FSS-KT-1	FSO-KT-2
FRA150L <sup>1</sup>	FRA1500121 thru FRA1500166				0411803-6S		
FRA150L <sup>1</sup> ,M <sup>1</sup>	FRA1500167 thru FRA1500311				0411803-8S		
FRA150M <sup>1</sup>	FRA1500312 thru FRA1500336				9851070-2S	FSS-KT-1	FSO-KT-2
152/A152/F152/FA152	All				9851070-2S	FSS-KT-1	FSO-KT-2
170 <sup>1</sup>	18003 thru 18573	0511122S <sup>3</sup>					
170 <sup>1</sup>	18574 thru 18729	0511160S					
170A,B <sup>1</sup>	18730 thru 20285	0413020-3S					
170B <sup>1</sup>	20286 thru 27169	0513120-5S	FSS-KT-2	FSO-KT-17			
172, 172A,B,C	28000 thru 17249544	0513120-5S	FSS-KT-2	FSO-KT-17			
172D,E	17249545 thru 17251822	0513120-6S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
172F,G,H,I,K,L,M	17251823 thru 17267584	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
172N,P <sup>1</sup>	17267585 thru 17275034	9851067-4S	FSS-KT-5	FSO-KT-13			
172P <sup>1</sup> , Q	17275035 thru 17276259	9851096-2S, 9851096-5S	FSS-KT-4 <sup>2</sup>	FSO-KT-7 <sup>2</sup>			
172P <sup>1</sup>	17276260 thru 17276654	9851096-5S	FSS-KT-4 <sup>2</sup>	FSO-KT-7 <sup>2</sup>			
172R,S	17280001 & On, 172S8001 & On	9851096-5S	FSS-KT-4	FSO-KT-7	S1903-2		
172RG <sup>1</sup>	172RG0001 thru 172RG0890	9851067-7S	FSS-KT-4	FSO-KT-15			
172RG <sup>1</sup>	172RG0891 thru 172RG1177	9851096-2S, 9851096-5S	FSS-KT-4	FSO-KT-7			
172RG <sup>1</sup>	172RG1178 thru 172RG1191	9851096-5S	FSS-KT-4	FSO-KT-7			
F172D,E	F172-0001 thru F172-0085	0513120-6S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
F172F,G,H,K,L,M	F172-0086 thru F17201514	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
F172N,P <sup>1</sup>	F17201515 thru F17202134	9851067-4S	FSS-KT-5	FSO-KT-13			
F172P <sup>1</sup>	F17202135 thru F17202254	9851096-2S, 9851096-5S	FSS-KT-4 <sup>2</sup>	FSO-KT-7 <sup>2</sup>			
FR172E,F,G,H,J <sup>1</sup>	FR17200001 thru FR17200390	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17	0716111-1SF	FSS-KT-16	FSO-KT-3
FR172J <sup>1</sup>	FR17200391 thru FR17200530	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17	0716111-2S <sup>3</sup>		
FR172J <sup>1</sup>	FR17200531 thru FR17200590	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
R172K, FR172K	ALL	0513120-200S, <sup>4</sup> 0513120-8S <sup>4</sup>	FSS-KT-2	FSO-KT-17	0716109-1S	FSS-KT-17	FSO-KT-5
P172/FP172	All	0513120-6S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
175,175A,B	55001 thru 17557002	0513120-5S	FSS-KT-2	FSO-KT-17			
175C	17557003 thru 17557119	0513120-6S <sup>4</sup>	FSS-KT-2	FSO-KT-17			
177,177A,B	All	0513120-9S	FSS-KT-2	FSO-KT-17	S1903-1S	FSS-KT-16	FSO-KT-4
177RG <sup>1</sup>	177RG0001 thru 177RG0282				0716111-4S, S1903-2S	FSS-KT-16	FSO-KT-4
177RG <sup>1</sup>	177RG0283 thru 177RG0314	0716613-4S	FSS-KT-18	FSO-KT-1			
177RG <sup>1</sup>	177RG0315 thru 177RG1051	0716613-5S	FSS-KT-18	FSO-KT-1			
177RG <sup>1</sup>	177RG1052 thru 177RG1366	9851067-6S	FSS-KT-5	FSO-KT-13			
F177RG <sup>1</sup>	F177RG0001 thru F177RG0062				0716111-4S, S1903-2S	FSS-KT-16	FSO-KT-4
F177RG <sup>1</sup>	F177RG0063 thru F177RG0077	0716613-4S	FSS-KT-18	FSO-KT-1			
F177RG <sup>1</sup>	F177RG0078 thru F177RG0160	0716613-5S	FSS-KT-18	FSO-KT-1			
F177RG <sup>1</sup>	F177RG0161 thru F177RG0177	9851067-6S	FSS-KT-5	FSO-KT-13			
180,180A,B,C,D,E,F,G,H,J	30000 thru 18052770	0311070-1S	FSS-KT-6	FSO-KT-16			
180K	18052771 thru 18053203	9851067-5S	FSS-KT-5	FSO-KT-13			

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Use FSS-KT-3 and FSO-KT-8 if equipped with air conditioner  
<sup>3</sup> Part number listed for reference only  
<sup>4</sup> The detent housing type must be verified by McFarlane's technician before purchasing an exchange unit from our stock. Please call 844-567-5855.

Eligibility continued on next page.



FAA-PMA Approved

## Eligibility for Repaired Fuel Selector and Fuel Shut Off Valves and Kits for Cessna Aircraft

Model	Serial Number	Fuel Selector Valve			Fuel Shut-Off Valve		
		Part Number	Seal Kit	Repair Kit	Part Number	Seal Kit	Repair Kit
182,182A,B,C,D	33000 thru 18253598	0311070-1S	FSS-KT-6	FSS-KT-16			
182E,F,G,H,J,K,L,M,N,P	18253599 thru 18265175	0716613-1S	FSS-KT-18	FSS-KT-1			
182Q,R <sup>1</sup>	18265176 thru 18268055	9851067-5S	FSS-KT-5	FSS-KT-13			
182R <sup>1</sup>	18268056 thru 18268434	9851096-1S	FSS-KT-5	FSS-KT-6			
182R <sup>1</sup> , 182S	18268435 and On	9851096-3S	FSS-KT-7	FSS-KT-9			
182T	18280945 thru 18299999	9851116-1S, 9851116-2S	FSS-KT-8	FSS-KT-23			
A182J,K,L,N <sup>1</sup>	A182-0001 thru A182-0148	0716613-1S	FSS-KT-18	FSS-KT-1			
F182P	F18200001 thru F18200025	0716613-1S	FSS-KT-18	FSS-KT-1			
F182Q	F18200026 thru F18200169	9851067-5S	FSS-KT-5	FSS-KT-13			
FR182	FR18200001 thru FR18200070	9851067-4S	FSS-KT-5	FSS-KT-13			
R182 <sup>1</sup> ,TR182 <sup>1</sup>	R18200001 thru R18201798	9851067-4S	FSS-KT-5	FSS-KT-13			
	R18201799 thru R18201999	9851096-2S	FSS-KT-4	FSS-KT-7			
	R18201799 thru R18202041	9851096-5S	FSS-KT-4	FSS-KT-7			
T182 <sup>1</sup>	18267716 thru 18268055	9851067-4S	FSS-KT-5	FSS-KT-13			
	18268056 thru 18268541	9851096-2S, 9851096-5S	FSS-KT-4	FSS-KT-7			
T182T	T18208001 thru T18299999	9851116-1S, 9851116-2S	FSS-KT-8	FSS-KT-23			
185, 185A <sup>1</sup>	185-0001 thru 185-0413				0716109-1S	FSS-KT-17	FSS-KT-25
185A <sup>1</sup>	185-0414 thru 185-0512	Fuel Valve Control P/N MCS1241-1			0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
185B	185-0513 thru 185-0653	0716613-3S	FSS-KT-18	FSS-KT-1			
		Fuel Valve Control P/N MCS1241-1			0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
185C	All	0716613-3S	FSS-KT-18	FSS-KT-1	0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
185D,E, A185E <sup>1</sup>	185-0777 thru 185-1300	0716613-3S	FSS-KT-18	FSS-KT-1	0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
					Fuel Shut Off Control P/N MCS1241-1		
A185E <sup>1</sup>	18501301 thru 18501599	0716613-4S	FSS-KT-18	FSS-KT-1	0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
	18501600 thru 18501679	0716613-4S	FSS-KT-18	FSS-KT-1	Fuel Shut Off Control P/N MCS1241-27		
A185E <sup>1</sup> , A185F <sup>1</sup>	18501680 thru 18502310	0716613-4S	FSS-KT-18	FSS-KT-1	0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
	18502311 thru 18503153	0716613-4S	FSS-KT-18	FSS-KT-1	0716111-1SP	FSS-KT-16	FSS-KT-3
A185F <sup>1</sup>	18503154 thru 18504328	9851067-5S	FSS-KT-5	FSS-KT-13	9851070-2S	FSS-KT-1	FSS-KT-2
	18504329 thru 18504424	9851096-1S	FSS-KT-5	FSS-KT-6	9851070-2S	FSS-KT-1	FSS-KT-2
	18504425 thru 18504448	9851096-4S	FSS-KT-5	FSS-KT-6	9851070-2S	FSS-KT-1	FSS-KT-2
188,188A,B,A188,A188A,A188B Without Wing Tanks	188-0001 thru 18802348				1616016-1S <sup>3</sup>		
A188 With Wing Tanks	188-0446 thru 188-0572				1H14-2S <sup>3</sup>		
A188A <sup>1</sup> ,A188B <sup>1</sup> With Wing Tanks	18800573 thru 18802348				0716111-1S <sup>2</sup>	FSS-KT-16	FSS-KT-3
A188B <sup>1</sup>	18802349 thru 18802745T				0716111-5S	FSS-KT-16	FSS-KT-3
A188B <sup>1</sup> ,T188C	18802746 thru 18803974T				9851070-2S	FSS-KT-1	FSS-KT-2
190 <sup>1</sup> ,195 <sup>1</sup> , 195A,B	7004 thru 16083	0311070S					
210-5 (205) <sup>1</sup> , 210-5A (205A) <sup>1</sup>	205-0001 thru 205-0550	0311070-1S	FSS-KT-6	FSS-KT-16			
	205-0552 thru 205-0555	1216405-1S	FSS-KT-10	FSS-KT-21			
210-5A (205A) <sup>1</sup>	205-0551, 205-0556 thru 205-0577	1216405-1S	FSS-KT-10	FSS-KT-21			
	205-0551, 205-0556 thru 205-0577	HE764S	FSS-KT-9	FSS-KT-24			
206/U206,U206A,B,C,D,E,F <sup>1</sup>	U206-0001 thru U20602199	C291503S	FSS-KT-11	FSS-KT-10			
TU206F <sup>1</sup> ,G <sup>1</sup> , U206F <sup>1</sup> ,G <sup>1</sup>	U20602200 thru U20605919	1216100-1S, C291503-0101S	FSS-KT-11	FSS-KT-11			
TU206A,B,C,D,E,F <sup>1</sup>	U206-0487 thru U20602199	C291503S	FSS-KT-11	FSS-KT-10			
TU206G <sup>1</sup> , U206G <sup>1</sup>	U20605920 thru U20606439	1216100-2S	FSS-KT-11	FSS-KT-11			
	U20606440 thru U20607020	1216100-1S	FSS-KT-11	FSS-KT-11			
P206,P206A,B,C,D,E	All	C291503S	FSS-KT-11	FSS-KT-10			
TP206A,B,C,D,E	All	C291503S	FSS-KT-11	FSS-KT-10			
206H,T206H	20608001 thru T20699999	9851096-5S	FSS-KT-4	FSS-KT-7			
207,T207,207A <sup>1</sup> ,T207A <sup>1</sup>	20700001 thru 20700654	1216100-1S, C291503-0101S	FSS-KT-11	FSS-KT-11			
	20700655 thru 20700729	1216100-2S	FSS-KT-11	FSS-KT-11			
210,210A	20700730 thru 20700788	1216100-1S	FSS-KT-11	FSS-KT-11			
	57001 thru 21057840	1216001-1S	FSS-KT-12	FSS-KT-12			
210B,C	21057841 thru 21058220	1216405-1S	FSS-KT-10	FSS-KT-21			
210D,E,F, T210F	All	HE764S	FSS-KT-9	FSS-KT-24			
210G,H,J	All	C291503S	FSS-KT-11	FSS-KT-10			
T210G,H,J	T210-0198 thru T210-0392	C291503S	FSS-KT-11	FSS-KT-10			
210K,L,M,N <sup>1</sup> /T210K,L,M,N <sup>1</sup>	21059200 thru 21064535	1216100-1S, C291503-0101S	FSS-KT-11	FSS-KT-11			
210N <sup>1</sup> ,R/T210N <sup>1</sup> ,R	21064536 thru 21065009	9851110-3S	FSS-KT-15	FSS-KT-22			
P210N <sup>1</sup>	P21000001 thru P21000760	1216100-1S, C291503-0101S	FSS-KT-11	FSS-KT-11			
P210N <sup>1</sup> ,R	P21000761 thru P21000874	9851110-3S	FSS-KT-15	FSS-KT-22	0716111-4S		
310, 310B,C,D	35000 thru 39299	0855013-1S	FSS-KT-6	FSS-KT-18			
310F,G,H,I,J,J-1,K	310-0001 thru 310K0245	0855013-1S	FSS-KT-6	FSS-KT-18			
		0855020-4S (Aux)	FSS-KT-19	FSS-KT-19			
320, 320-1, 320A,B,C	320-0001 thru 320C0073	0855013-1S	FSS-KT-6	FSS-KT-18			
320D	320D0001 thru 320D0130	0855020-4S (Aux)	FSS-KT-19	FSS-KT-19			
		0855020-5S	FSS-KT-20	FSS-KT-20			

<sup>1</sup> Partial model eligibility  
<sup>2</sup> For aircraft with flared threads use P/N 0716111-1SF. For aircraft with pipe threads use P/N 0716111-1SP.  
<sup>3</sup> Part number listed for reference only



## CJ Aviation FAA-PMA Fuel Pumps

CJ Aviation has been manufacturing the best fuel pumps in the industry for more than 20 years, offering direct replacement for Dukes fuel pumps for Beechcraft, Cessna, Diamond, Maule, Mooney, Lake and Navion aircraft.

**New!**



### Better

- Direct replacements
- Two year warranty

### Stronger

- Redesigned motor
- Tighter tolerances

### Faster

- In stock
- Most orders ship same day

Aircraft	14 Volt P/N	28 Volt P/N	Aircraft	14 Volt P/N	28 Volt P/N
<b>Beechcraft</b>			<b>Maule</b>		
35-C33	4140-00-7NVCJ		M-4	1184-00-3CJ	
35-C33A	4140-00-39NVCJ			1471-00-3CJ	
36	4140-00-39NVCJ	1296-00-1NVCJ	M-4-180V, M-4-220	4140-00-57CJ <sup>4</sup>	
	4258-00-15NVCJ	4613-00-3NVCJ		1184-00-3CJ	4140-00-401CJ
A36, G36		4613-00-5NVCJ	M-5-180C, M5-5-200	1471-00-3CJ	
		4613-00-3NVCJ		4140-00-400CJ	
58		4613-00-5NVCJ	M-5-210C, M-5-210TC	1184-00-3CJ	4140-00-401CJ
95-B55		4404-00-7NVCJ		1471-00-3CJ	
E33	4140-00-7NVCJ	4404-00-7NVCJ	M-5-220C	4140-00-400CJ	
E33A, E33C	4140-00-39NVCJ			4140-00-57CJ <sup>4</sup>	
E55		4404-00-7NVCJ	M-5-235C	1184-00-3CJ	4140-00-401CJ
F33	4140-00-7NVCJ			1471-00-3CJ	
F33A, F33C	4140-00-39NVCJ	1296-00-1NVCJ	M-6-180	4140-00-57CJ	
G33	4140-00-39NVCJ			1184-00-3CJ	4140-00-401CJ
S35	4140-00-39NVCJ		M-6-235	1471-00-3CJ	
V35	4140-00-39NVCJ	1296-00-1NVCJ		4140-00-57CJ <sup>4</sup>	
V35A		1296-00-1NVCJ	4140-00-400CJ		
<b>Cessna</b>			M-6-180	1184-00-3CJ	4140-00-401CJ
172R,S		5100-00-4CJ		1471-00-3CJ	
FR172E,F,G,H,J,K <sup>1</sup>	4140-00-17CJ <sup>6</sup>		M-6-235	4140-00-400CJ	
FR172K <sup>1</sup>		4140-00-15CJ <sup>7</sup>		1184-00-3CJ	4140-00-401CJ
R172K	4140-00-17CJ <sup>8</sup>	4140-00-15CJ <sup>9</sup>	M-7-235, M-7-235A,B,C, MT-7-235	1471-00-3CJ	
177RG	4140-00-17CJ <sup>10</sup>	4140-00-15CJ <sup>11</sup>		4140-00-400CJ	4140-00-401CJ
F177RG	4140-00-17CJ <sup>12</sup>		M-7-260, M-7-260C, MT-7-260	1184-00-3CJ	4140-00-401CJ
R182, TR182 <sup>1</sup>		4140-00-15CJ <sup>13</sup>		1471-00-3CJ	
A188, A188A,B	4140-00-17CJ <sup>3</sup>	4140-00-15CJ <sup>2</sup>	M-7-420A, M-7-420AC	4140-00-400CJ	
206	4140-00-17CJ			4140-00-400CJ	4140-00-401CJ
206H, T206H		4140-00-15CJ	MT-7-420	1184-00-3CJ	4140-00-401CJ
P206, P206A,B,C, TP206A,B,C	4140-00-17CJ			4140-00-400CJ	
P206D,E, TP206D,E		4140-00-15CJ	MXT-7-160, MX-7-180, MXT-7-180, MX-7-180A, MXT-7-180A, MX-7-180AC,B,C, MX-7-235, M-8-235	1184-00-3CJ	4140-00-401CJ
U206, U206A,B,C, TU206A,B,C	4140-00-17CJ			1471-00-3CJ	
U206D,E,F,G, TU206D,E,F,G		4140-00-15CJ	M-8-235	4140-00-400CJ	
207, 207A, T207, T207A	4140-00-17CJ <sup>14</sup>	4140-00-15CJ <sup>15</sup>			
210D,E,F,G,H,J,K, T210K	4140-00-17CJ		<b>Mooney</b>		
210L,M,N <sup>1</sup> , T210L,M,N <sup>1</sup>		4140-00-15CJ <sup>16</sup>	M20D,E <sup>1</sup>	4140-00-21ACJ	
P210N <sup>1</sup>		4140-00-15CJ <sup>17</sup>	M20E <sup>1</sup> ,F	4140-00-19ACJ	
T210F,G,H,J	4140-00-17CJ		M20G	4140-00-21ACJ	
337, 337A,B,C,D,E,F,G,H, F337E,F,G,H		4140-00-15CJ	M20J,K	4140-00-19ACJ	
T337B,C,D,E,F,G,H, FT337E,F,GP		4140-00-15CJ	<b>Navion (Sierra Hotel Aero)</b>		
310, E310H,J, T310P,Q,R		4140-00-15CJ <sup>2</sup>	H <sup>5</sup>	4140-00-17NCJ	
320, 320A,B,C,D,E,F		4140-00-15CJ <sup>2</sup>	<sup>1</sup> Partial model eligibility <sup>2</sup> When originally equipped with Dukes P/N 4140-00-15 or P/N C291504-0201 <sup>3</sup> When originally equipped with Dukes P/N 4140-00-17 or P/N C291504-0101 <sup>4</sup> When equipped with Franklin 6A-300 series engine <sup>5</sup> When equipped with IO-520-B or IO-520-BA engine <sup>6</sup> S/N FR172-0001 thru F17200620 <sup>7</sup> S/N FR17200621 and On <sup>8</sup> S/N R1722000 thru R1722724 <sup>9</sup> S/N R1722725 and On <sup>10</sup> S/N 177RG0283 thru 177RG1266 <sup>11</sup> S/N 177RG1267 and On <sup>12</sup> S/N F177RG0063 thru F177RG0177 <sup>13</sup> S/N R18200584 thru R18201628 <sup>14</sup> S/N 20700001 thru 20700414 <sup>15</sup> S/N 20700228 and On <sup>16</sup> S/N 21059503 thru 21064535 <sup>17</sup> S/N P21000001 thru P21000760		
340, 340A		4140-00-153CJ			
401, 401A,B, 402, 402A,B		4140-00-153CJ			
411, 411A		4140-00-153CJ			
		4140-00-153CJ			
414, 414A		4140-00-153CJ			
421, 421A,B		4140-00-153CJ			
		4140-00-153CJ			
<b>Diamond</b>					
DA 40, 40F, 42		5100-00-9CJ			
<b>Lake Aircraft (Revo)</b>					
LA-4-200	4140-00-19ACJ				

**Note:** A refundable core charge is included in the price of all CJ Aviation FAA-PMA pumps. See the following page for a Dukes to CJ part number cross reference.

**Dukes to CJ Aviation Cross Reference**

Dukes P/N	Use CJ Aviation P/N
1184-00-1 and 1184-00-3	1184-00-3CJ
1296-00-1NV	1296-00-1NVCJ
1471-00-1 and 1471-00-3	1471-00-3CJ
4140-00-7 and 4140-00-7NV	4140-00-7NVCJ
4140-00-15	4140-00-15CJ
4140-00-17	4140-00-17CJ
4140-00-17N	4140-00-17NVCJ
4140-00-19A	4140-00-19ACJ
4140-00-21A	4140-00-21ACJ
4140-00-39NV	4140-00-39NVCJ
4140-00-57	4140-00-57CJ
4140-00-153	4140-00-153CJ
4258-22-15NV	4258-00-15NVCJ
4404-00-7NV	4404-00-7NVCJ
4613-00-3 and 4613-00-3NV	4613-00-3NVCJ
4613-00-5 and 4613-00-5NV	4613-00-5NVCJ
5100-00-1, 5100-3 and 5100-00-4	5100-00-4CJ
5100-00-9	5100-00-9NC
5140-00-400	4140-00-400CJ
4140-00-401	4140-00-401CJ



**CJ Aviation Overhauled Fuel Pumps**

**FAA and EASA approved certified repair station**

Overhauled fuel pumps are available for general aviation aircraft and experimental aircraft with exchanges on Airborne, Dukes and Weldon pumps. Quick turn around with same day shipping on standard fuel pump part numbers. **Call for details.**



Dukes		Weldon						
14 Volt P/N	28 Volt P/N	JA Style Lip Seal	J Style Lip Seal	J Style Face Seal	JC Style Lip Seal	JC Style Face Seal	JL Style Lip Seal	L Style
1171-00-1NV	1296-00-1NV	A8120-B	33959-2	900107	8150-B	A8150-B	10054-A	10024-B
1184-00-3	1500-00-31	A8120-C	33959-3	269A8304-19	8152-B	A8150-B1	10054-B	10028-A
1458-00-1	1500-00-35	A8120-D	481-766	269A8304-21	8153-C	A8152-B	10062-B	42113-5
1471-00-3	1500-00-38	A8121-B	481-780	461-758	8154-A	A8153-B	A10050-C	42113-6
1499-00-19	1817-00-1NV	A8122-A	8007-B	8018-A	8154-B	A8153-C	A10050-D	48885-2
1499-00-21	4140-00-111		8008-C	8027-C	8157-B	A8159-A	A10051-D	53050-2
1816-00-1NV	4140-00-15		8009-A	A8007-B	8158-A	A8160-B	A10053-A	A10008-F
4140-00-103NV	4140-00-153		8009-B	A8008-D	8158-B	A8160-D	A10053-B	A10009-F
4140-00-11NV	4140-00-400		8010-A	A8016-B	8159-A	A8163-A	A10055-B	A10009.1-A
4140-00-17	4140-00-401		8016-B	A8016-B1	8160-B	A8163-A1	A10056-B	A10009.1-B
4140-00-17N	4140-00-47		8017-A	A8017-A	8163-A	A8163-B	A10063-A	A10014-D
4140-00-19A	4140-00NV		8115-B	A8019-A	8163-B	A8164-A		A10014-D40
4140-00-19B	4404-00-7NV		8116-B	A8020-A	8164-A	A8168-A		A10014-D42
4140-00-1NV	4613-00-3NV		8120-G	A8020-B	8168-A	A8170-A		A10014-D44
4140-00-218	4613-00-5NV		8120-H	A8123-H	8169-A	A8171-A		A10014-E
4140-00-21A	5100-00-4		8120-J	A8127-A	8170-A	A8172-A		A10017-C
4140-00-39NV	5100-00-9		8120-K	A8127-B	8171-B	A8174-B		A10019-C
4140-00-57	5217-00-1R		8120-L	A8136-B	8172-A	A8176-B		A10019-D
4140-00-7NV	5217-00-3		8120-M	A8148-A	8174-A	A8177-A		A10019-E
4258-00-15NV			8123-H	A8148-B	8174-B	A8177-B		A10019-E1
5367-00-1			8136-B	B8009-A	8175-A	A8178-A		A10057-B
			8140-B	B8009-B	8175-B	A8178-B		B10000-F
			A8009-A	B8110-F	8176-B	A8179-A		B10000-F1
			A8009-B	B8110-G	8177-A	A8181-A		B10003-F
			A8110-C	B8118-A	8177-B	A8183-A		B10007-D
			A8110-F	B8120-G	8178-A	A8184-A		B10010-F
			A8110-G	B8120-H	8178-B	A8185-B		B10010-FW
			AA8001-G	B8120-J	8179-A	A8186-B		B10014-E
			AA8001-H	B8120-K	8180-B	A8188-B		B10014-F
			B8001-G	B8120-M	8190-B	A8189-B		TA1-23-84
			B8001-H	C8009-A		A8250-B		
			B8103-F	C8009-B		C8187-B		
			C8100-E	D8100-E		MY103-280		
			C8100-F	D8100-F				
			C8100-L					

## Alcor Instruments and Probes

**Don't waste your money on cheap instruments and probes. There is a big difference!**  
**Your lowest price and quickest source for Alcor products!**



### Increase engine life and enhance safety through proper monitoring

- Faster responding probes than low dollar alternatives
- Temperature compensated gauges for accuracy all year round at any altitude
- Single gauges monitor one cylinder, dual gauges for twin engine aircraft monitor one cylinder per engine. Add a selector switch to make an economical full engine analyzer. *Lighted gauges and custom dials also available!*

### Alcor: A name you can trust

- Over 50 years experience – Designed, manufactured and supported in the USA
- Generous warranty: 3 years for gauges, 5 years for grounded probes, 1 year for ungrounded probes
- FAA-PMA/STC approved for all aircraft with reciprocating engines

### Simple installation

- No power required from the aircraft (lighted gauges require power)
- Works even with an electrical failure
- Great for homebuilt or antique aircraft with no electrical system
- Gauges include all mounting hardware
- Standard 2 1/4" or 3 1/8" gauge sizes

## CHT Gauges

Indicates true temperature from 200-600°F or 100-300°C in 25° increments

P/N	Description	Compatible Thermocouple Type	Size	Calibration 1
46171	CHT Gauge Celsius	J - Black and Yellow	2 1/4"	250C @ 8.0 Ω
46151	CHT Gauge	J - Black and Yellow	2 1/4"	500F @ 8.0 Ω
46127	CHT/CHT Dual Gauge	J - Black and Yellow	2 1/4"	500F @ 8.0 Ω
46157	CHT/CHT Dual Gauge	J - Black and Yellow	3 1/8"	500F @ 8.0 Ω



**1** Factory calibrated at the specified temperature for any Alcor type J leads and probes.

**Save with kits on the next page!**

## EGT Gauges

**Save on fuel costs with precision leaning!**

- Quick visual reference to peak EGT
- Set peak reference with easy in-flight calibration – special calibration screwdriver included!
- Single 2 1/4" and dual 3 1/8" models include an adjustable reference needle
- Two marking options: Relative to peak (lean to peak temperature indicated with an \* - must be calibrated in flight) or true temperature from 1200-1700°F in 25° increments



P/N 46125  
P/N 46188-3



P/N 46150  
P/N 46148 w/Light 12V  
P/N 46149 w/Light 24V



P/N 46164



P/N 46244 (7.6 Ω)  
P/N 46162 (3.3 Ω)



P/N 45993 (Type E)  
P/N 46000-1  
P/N 46000-3  
P/N 46000-7  
P/N 46115 (w/light)  
P/N 46155

P/N	Description	Compatible Thermocouple Type	Size	True Temp or Relative to Peak	Calibration 1
46000-1	EGT/EGT Dual Gauge	K - Red and Yellow	3 1/8"	TT	1650F @ 8.2 Ω (264") <b>2</b>
46000-3	EGT/EGT Dual Gauge	K - Red and Yellow	3 1/8"	TT	1550F (100") <b>2</b> Front 3.6 Ω Rear 7.8 Ω (250") <b>2</b>
46000-7	EGT/EGT Dual Gauge	K - Red and Yellow	3 1/8"	TT	1650F @ 7.6 Ω (240") <b>2</b>
46115	EGT/EGT Dual Gauge w/Light 24V	K - Red and Yellow	3 1/8"	RTP	1600F @ 7.44 Ω <b>3</b>
46125	EGT/EGT Dual Gauge	K - Red and Yellow	2 1/4"	RTP	1600F @ 7.44 Ω <b>3</b>
46148	EGT Gauge w/Light 12V	K - Red and Yellow	2 1/4"	RTP	1600F @ 3.63 Ω <b>3</b>
46149	EGT Gauge w/Light 24V	K - Red and Yellow	2 1/4"	RTP	1600F @ 3.63 Ω <b>3</b>
46150	EGT Gauge	K - Red and Yellow	2 1/4"	RTP	1600F @ 3.63 Ω <b>3</b>
46155	EGT/EGT Dual Gauge	K - Red and Yellow	3 1/8"	RTP	1600F @ 7.44 Ω <b>3</b>
46162	EGT Gauge w/Green Arc	K - Red and Yellow	2 1/4"	TT	1650F @ 3.3 Ω (90") <b>2</b>
46164	EGT Gauge	K - Red and Yellow	2 1/4"	TT	1650F @ 3.3 Ω (90") <b>2</b>
46188-3	EGT Dual Gauge w/Light	K - Red and Yellow	2 1/4"	RTP	1600F @ 7.44 Ω <b>3</b>
45993	EGT/EGT Dual Gauge	E - Red and Brown	3 1/8"	RTP	1550F @ 8.9 Ω <b>3</b>
46244	EGT Gauge w/Green Arc	K - Red and Yellow	2 1/4"	TT	1650F @ 7.6 Ω (240") <b>2</b>

**1** Factory calibrated at the specified temperature for the specified total probe and lead resistance. Calibration temperature also indicates the location of the \* or red line.

**2** Factory calibrated for leads of the indicated length but may be recalibrated for different lead lengths either at the factory or with an Alcor 2000 or 2000+ System.

**3** Factory calibrated for the specified total lead and probe resistance, but may be easily recalibrated in flight.

**Save \$\$ with kits on the next page!**



FAA-PMA Approved

**Combination CHT/EGT Gauges**

- CHT indicates true temperature from 200-600°F in 25° increments
- EGT indicates temperature relative to peak in 25° increments (lean to peak temperature indicated with an \* - must be calibrated in flight)
- 3 1/8" size includes adjustable reference needle for the EGT

P/N	Description	Compatible Thermocouple Type	Size	Calibration 1
46126	CHT/EGT Dual Gauge	J - Black and Yellow (CHT) K - Red and Yellow (EGT)	2 1/4"	500F @ 8.0 Ω / 1600F @ 3.63 Ω
46156	CHT/EGT Dual Gauge	J - Black and Yellow (CHT) K - Red and Yellow (EGT)	3 1/8"	500F @ 8.0 Ω / 1600F @ 3.63 Ω



1 CHT Factory calibrated for any Alcor type J leads and probes. EGT Factory calibrated for specified total lead and probe resistance, but may be re-calibrated in flight.

**See below for money saving kits!**

**TIT Gauges**

- Dual gauges for twin engine aircraft
- Indicates true temperature from 1200-1700°F in 25° increments

P/N	Description	Compatible Thermocouple Type	Size	Calibration 1
46000-4	TIT/TIT Dual Gauge w/Light 24V	K - Red and Yellow	3 1/8"	Scale 1650F @ 6.2 Ω (192") 2
46224	TIT/TIT Dual Gauge	K - Red and Yellow	3 1/8"	Scale 1650F @ 7.44 Ω (216") 2
46243	TIT Gauge	K - Red and Yellow	2 1/4"	Scale 1650F @ 3.63 Ω (90") 2
46124	TIT/TIT Dual Gauge	K - Red and Yellow	2 1/4"	Scale 1650F @ 7.6 Ω (240") 2



1 Factory calibrated at the specified temperature for the specified total probe and lead resistance. Calibration temperature also indicates the location of the red line.

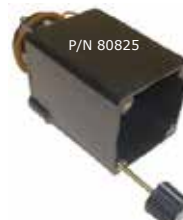
2 Factory calibrated for leads of the indicated length but may be recalibrated for different lead lengths either at the factory or with an Alcal 2000 or 2000+ System.

**Universal Cylinder Selector Switches**

**An inexpensive way to create a full engine monitor!**

**P/N 80825 for all single 2 1/4" Alcor gauges**

- Allows one gauge to monitor up to seven temperatures
- With a CHT gauge you can monitor CHT for all four or six cylinders for a single engine
- With an EGT gauge you can monitor EGT for all four or six cylinders plus TIT for a turbocharger for a single engine



**P/N 80827 for all dual 2 1/4" Alcor gauges**

- Allows one gauge to monitor up to 14 temperatures
- With a CHT/EGT gauge you can monitor CHT and EGT for all four or six cylinders plus TIT for a turbocharger for a single engine
- With a dual EGT gauge you can monitor EGT for all four or six cylinders plus TIT for a turbocharger for two engines



**Can also be used with non-Alcor gauges!**

**Complete Kits**

- Save with complete kits from McFarlane!
- Includes everything you need!



**Kit Contents**

Kit P/N	Description	Gauge	Probes	Leads	Accessories (included)
211-110	2 1/4" EGT, Clamp Probe, 90" Lead	(1) 46150	(1) 86255	(1) 42525	
211-140	2 1/4" EGT, Clamp Probes, 90" Leads, 4 Cylinder Switch	(1) 46150	(4) 86255	(4) 42525	(1) 80825
211-160	2 1/4" EGT, Clamp Probes, 90" Leads, 6 Cylinder Switch	(1) 46150	(6) 86255	(6) 42525	(1) 80825
211-210	2 1/4" EGT, Clamp Probe, 144" Lead	(1) 46150	(1) 86255	(1) 42526	
213-101	2 1/4" CHT, Bayonet Probe, 90" Lead	(1) 46151	(1) 86251	(1) 42535	(1) 28202
213-104	2 1/4" CHT, Bayonet Probes, 90" Leads, 4 Cylinder Switch	(1) 46151	(4) 86251	(4) 42535	(4) 28202, (1) 80825
213-201	2 1/4" CHT, Bayonet Probe, 144" Lead	(1) 46151	(1) 86251	(1) 42536	(1) 28202
222-111	2 1/4" CHT/EGT Bayonet/Clamp Probes, 90" Leads	(1) 46126	(1) 86251, (1) 86255	(1) 42525, (1) 42535	(1) 28202
222-144	2 1/4" CHT/EGT Bayonet/Clamp Probes, 90" Leads, 4 Cylinder Switch	(1) 46126	(4) 86251, (4) 86255	(4) 42525, (4) 42535	(4) 28202, (1) 80827
222-211	2 1/4" CHT/EGT Bayonet/Clamp Probes, 144" Leads	(1) 46126	(1) 86251, (1) 86255	(1) 42526, (1) 42536	(1) 28202
222-266	2 1/4" CHT/EGT Bayonet/Clamp Probes, 144" Leads, 6 Cylinder Switch	(1) 46126	(6) 86251, (6) 86255	(6) 42526, (6) 42536	(6) 28202, (1) 80827
46126-Kit	2 1/4" CHT/EGT Dual Meter Kit	(1) 46126	(1) 86202, (1) 86255	(1) 42525, (1) 42535	
322-111	3 1/8" CHT/EGT Bayonet/Clamp Probes, 90" Leads	(1) 46156	(1) 86251, (1) 86255	(1) 42525, (1) 42535	(1) 28202
1136-B20A	3 1/8" Dual EGT, Screw-In Probes 240" Leads	(1) 46155	(2) 86245	(2) 42527	

## Thermocouple Probes

With over 50 years of aviation manufacturing experience, Alcor makes the highest quality, longest lasting, and fastest responding probes.

- Best warranty in the industry (5 year on grounded probes, 1 year on ungrounded probes)
- Improved design features
- Designed, manufactured and supported in the USA

### Thermocouple Types: What's the difference?

A thermocouple is formed by the junction between two metals. When the junction is heated, a very small voltage measured in millivolts (1/1000V) is generated. The higher the temperature, the higher the voltage. Each metal combination is best suited for a specific temperature range. The type of thermocouple indicates the metal combination. Three types are used in aviation EGT, CHT, and TIT applications:

Type	Wires			Description
	Color	Polarity	Material	
J	Yellow	-	constantan	Very sensitive. Limited to lower temps. Not for EGT or TIT probes. Standard for CHT probes. Required for all Alcor CHT gauges.
	Black	+	iron	
K	Red	-	alumel	Sensitive over a broad range of temps. Standard for EGT and TIT probes and some amplified or digital CHT gauges from other companies.
	Yellow	+	chromel	
E	Red	-	constantan	Used in older EGT systems. Alcor still supplies Type E gauges and a limited supply of probes, but not supply leads. If new probes or leads are required, it is a good time to upgrade to a Type K system. Brown wire may look tan or silver.
	Brown	+	chromel	

The type of thermocouple must match the type of gauge and lead.

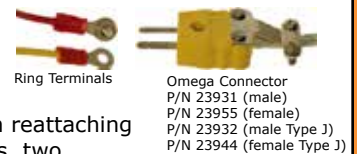
### Grounded vs Ungrounded

**Grounded** probes have the thermocouple junction welded directly to the probe shaft. They have faster response time, longer life, and lower cost, but since they have continuity with the engine ground, they are susceptible to more electrical noise. This noise does not affect Alcor gauges, but can cause problems with some amplified or digital gauges from other manufacturers. All Alcor gauges can use grounded thermocouple, although some airframe manufacturers require ungrounded probes.

**Ungrounded** probes have the thermocouple junction isolated from the probe shaft so there is no continuity between the thermocouple and the engine ground resulting in less electrical noise. They are required for some amplified or digital gauges from other manufacturers and by some airframe manufacturers.

### Connectors

Most probes have ring terminal connectors however some have a Omega style male plug connector. Omega style plugs are **now available** for converting an existing ring terminal installation.



### Stagger

The two different color probe wires are typically different lengths to ensure the correct polarity when reattaching them to the lead going to the gauge. Stagger refers to which color wire is longer. For Type K probes, two options are available:

**Normal:** The yellow probe wire is longer



**Reverse:** The yellow probe wire is shorter

Normal and reverse stagger probes and leads are all completely compatible, however, having the correct stagger ensures a neat installation and correct polarity. P/N 42523 EGT Lead Stagger Adapter is available to convert a normal stagger to a reverse stagger.

### Alumel EGT Lead Stagger Adapter

**P/N 42523**

Converts a probe from normal to reverse stagger

### Fiberglass Fire Sleeve

**P/N 49297**

Protects wires from engine and exhaust heat. 6" length

## CHT Thermocouple Probes

Includes fire sleeve and ring terminal hardware. Two different mount styles are available:

### Bayonet Mount

These twist and lock into a screw-in adapter. The probe is spring loaded to ensure contact with metal instead of air. Choose bayonet style if the engine model is equipped with threaded thermowell receptor and/or bayonet adapter in the cylinders. (see below for adapter)

### Gasket Mount

These do not require a screw-in adapter. The 18mm gasket fits on many common spark plugs. Some engine designs, such as radial engines, the O-235 and O-200, may prevent the use of bayonet style or may not allow for the use of a bayonet adapter. Choose gasket style if the engine model is NOT equipped with threaded thermowell receptor and/or bayonet adapter in the cylinders.

P/N	Description	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86251	CHT Probe	J - Black and Yellow	Bayonet	Grounded	Normal	0.24 ± .05 Ω
86202	CHT Probe	J - Black and Yellow	Gasket, 18 mm	Grounded	Normal	0.13 + .16 Ω - .05 Ω
86252	CHT Probe	K - Red and Yellow	Bayonet	Grounded	Reverse	0.66 ± .10 Ω
86253	CHT Probe	K - Red and Yellow	Bayonet, Screw-in	Grounded	Reverse	0.65 ± .10 Ω
86268	CHT Probe	K - Red and Yellow	Gasket, 18 mm	Grounded	Normal	0.60 ± .10 Ω

Does not require bayonet adapter. Screws directly into thermowell.



## CHT Resistance Temperature Detector (RTD) Bayonet Probe

**P/N 102-00007**

Found in older aircraft. Identical specs to P/N AN5546-1. Resistance: 57 Ω. Previously sold as P/N 86146.



Manufactured by Norwich Aero Products Inc

## CHT Bayonet Adapter

**P/N 28202** 3/8"-24 UNF thread

- Threads into cylinder thermowell
- Adapts to standard bayonet probes



FAA-PMA Approved

**EGT and TIT Thermocouple Probes**

Alcor EGT probes are accurate +/-25° at 1500°F. Includes fire sleeve and ring terminal hardware. Two different mount styles are available:

**Screw-In Mount**

This option provides the neatest installation. Many engines now come with a hole already threaded for a screw-in probe. If not, a threaded weld boss (P/N 28113) can be purchased to retrofit an engine. Alcor screw-in probes are available in 7/16"-20 UNF thread common in Continentals or 1/4"-18 NPT thread common in Lycomings. Some probes are available with adjustable depth to accommodate different weld boss heights. The probe tip should be 3/4" into the tube. Screw-in probes are also available with a 90° bend or an 8° bend to allow for an engine design that will not accommodate the straight-in style.

P/N	Description	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86143	EGT/TIT Probe	K - Red and Yellow	Screw-In, 1/4" NPT	Grounded	Normal	0.89 ± .10 Ω
86153	EGT/TIT Probe	E - Red and Brown	Screw-In, 1/4" NPT	Grounded	Normal	0.97 ± .15 Ω
86159	EGT/TIT Probe	K - Red and Yellow	Screw-In, 1/4" NPT	Grounded	Reverse	0.70 ± .10 Ω
86160	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Reverse	0.70 ± .10 Ω
86161	EGT/TIT Probe 90° Bend	K - Red and Yellow	Screw-In, 1/4" NPT	Grounded	Reverse	0.70 ± .10 Ω
86230	EGT/TIT Probe 8° Bend	K - Red and Yellow	Screw-In, 1/4" NPT	Grounded	Normal	0.89 ± .10 Ω
86240	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Normal	0.80 ± .10 Ω
86245	EGT/TIT Probe, 11.56"	K - Red and Yellow	Screw-In, 7/16"-20	Grounded	Reverse	0.70 ± .10 Ω
86307	EGT/TIT Probe	K - Red and Yellow	Screw-In, 1/4" NPT	Ungrounded	Normal	0.71 ± .03 Ω
86308	EGT/TIT Probe	K - Red and Yellow	Screw-In, 7/16"-20	Ungrounded	Normal	0.71 ± .03 Ω
86309	EGT/TIT Probe, Long Lead	K - Red and Yellow	Screw-In, 7/16"-20	Ungrounded	Normal	1.60 Ω
86341	EGT/TIT Probe	K - Red and Yellow	Screw-In, 1/8" NPT	Ungrounded	N/A	0.94 ± .10 Ω

1 Adjustable depth tip 2 Built in radiator

**Clamp Mount**

This is the most common option because installation is easy and no welding is required. A hole is simply drilled in the exhaust near the mounting flange. The probe is inserted in the hole and a hose-clamp style clamp secures it in place. Clamps are available in various sizes to accommodate different sized exhaust tubes.

P/N	Description	Thermocouple Type	Mount	Grounded or Ungrounded	Stagger	Resistance
86226	EGT/TIT Probe	K - Red and Yellow	Clamp, 3 1/4" Max	Grounded	Reverse	0.70 ± .10 Ω
86255	EGT/TIT Probe	K - Red and Yellow	Clamp, 1 1/8" to 3 3/8"	Grounded	Normal	0.80 ± .10 Ω
86275	EGT/TIT Probe, 13.8"	K - Red and Yellow	Clamp, 3 1/4" Max	Grounded	Normal	0.80 ± .10 Ω
86281	EGT/TIT Probe	K - Red and Yellow	Clamp, 3 1/4" Max	Grounded	Normal	0.85 ± .10 Ω
86310	EGT/TIT Probe	K - Red and Yellow	Clamp, 2.35" Max	Ungrounded	Normal	1.60 Ω
86343	EGT/TIT Probe	K - Red and Yellow	Clamp, 3 1/4" Max	Ungrounded	Normal	0.80 Ω

2 Built in radiator 3 Omega style male plug connector. Does not include fire sleeve.

**Weld Boss Plug**

P/N 28204

- Screws into unused weld boss ports
- 7/16"-20 UNF thread



**EGT/TIT Weld Boss**

P/N 28113

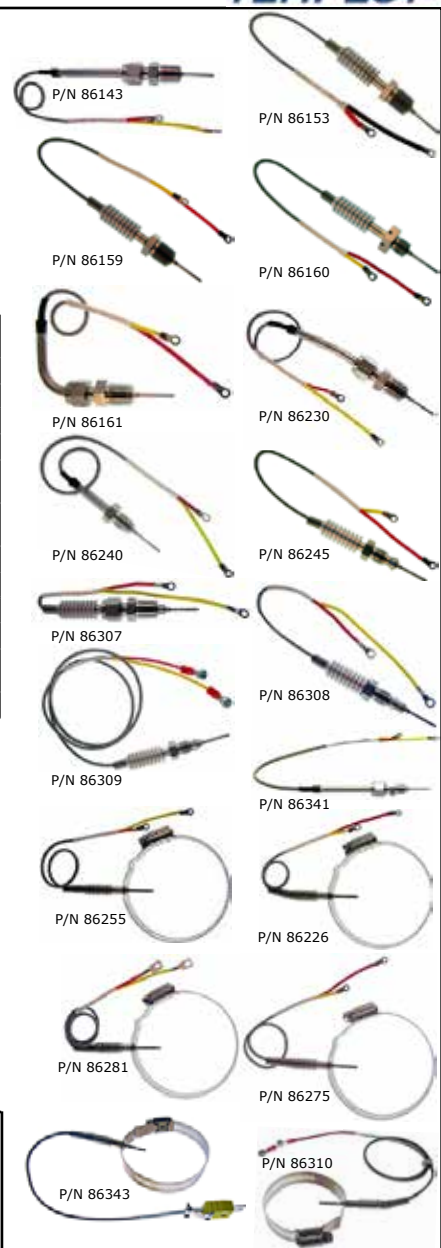
- Weld to exhaust tube to use screw-in probes
- 7/16"-20 UNF thread



**Copper Gasket**

P/N 70354

Used as a seal with EGT/TIT Probe, P/N 86160 and Weld Boss, P/N 28113.



**Leads**

- High quality stranded material for flexibility and long life (cheap single stranded leads are prone to break)
- Used to attach a thermocouple probe to a gauge
- Must be of the same type as the thermocouple (e.g., a Type K probe must use Type K leads)
- Do not shorten or splice as this will alter the resistance and require recalibration of the gauge. See calibration note.



Save with kits see page 64!

**CHT Leads**

- Integrated resistor ensures the same resistance regardless of length
- Choose leads based on the distance from the probe to the gauge

**EGT/TIT Leads**

- Each length has a different resistance
- Total resistance of the lead and the probe must match the calibration of the gauge
- Choose replacement leads based on the calibration of the existing gauge
- For a new system, choose leads based on the distance from the probe to the gauge and choose a gauge with the corresponding calibration.

CHT Type J Black and Yellow		
P/N	Resistance	Length
42535	7.76 ± .20 Ω	90"
42536	7.76 ± .20 Ω	144"
42543	7.76 ± .20 Ω	216"
42537	7.76 ± .20 Ω	240"

EGT Type K Red and Yellow		
P/N	Resistance	Length
42525	4.34 ± .08 Ω	90"
42526	2.71 ± .06 Ω	144"
42528	6.52 ± .11 Ω	216"
42527	7.25 ± .12 Ω	240"

Bulk wire now available!  
P/N 98204 (Type J)  
P/N 98211 (Type K)

**Calibration note:**

EGT gauges with relative lean to peak markings may be easily recalibrated in flight per the instructions provided with the gauge. TIT, CHT and EGT gauges with True Temperature markings must either be recalibrated with an Alcor System Tester or returned to Alcor for recalibration if the total lead and probe resistance does not match the gauge calibration. Digital or amplified gauges from other manufacturers are not sensitive to lead resistance, therefore leads may be shortened as needed for these applications without requiring recalibration.



## Alcal 2000+ EGT/CHT/TIT System Tester/Calibrator

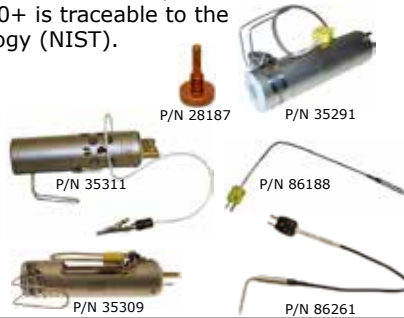
Trusted by aviation technicians since 1970!  
P/N 85337

The Alcal 2000+ provides everything needed for accurate calibration and troubleshooting of EGT/CHT/TIT, Type K, J, and E systems. The tester simulates thermocouple output millivolts so that instruments can be calibrated on the ramp or in the shop. The Alcal 2000+ also accepts a millivolt input while testing Alcor thermocouples installed in its special heater for accurate analysis at operating temperatures.

The Alcal 2000+ is also designed to check the accuracy of an entire system or the individual components. While the thermocouple is in the heater, the instrument can be read in the panel and recalibrated as necessary while simulating temperatures up to 1750°F. An easy-to-read LCD display makes accurate settings a snap. With its rugged Pelican case, the Alcal 2000+ is ready to use anywhere! Certification of the Alcal 2000+ is traceable to the National Institute of Standards and Technology (NIST).



Alcal Accessories and Replacement Parts	
28187	Adapter for gasket style CHT thermocouples
28202	CHT Adapter
35291	EGT Heater for Alcal 2000 with 0.128" hole
35309	EGT Heater for older Alcal systems
35311	CHT Heater for Alcal 2000
42399	Test Lead for Alcal 2000
72112	Eutectic Refill, EGT
86188	EGT/TIT Reference Thermocouple for Alcal 2000
86261	CHT Reference Thermocouple for Alcal 2000



### New version of the trusted Alcal 2000 with these great improvements

- Pelican case redesigned with removable lid
- Internal carrying handle for transporting w/o lid
- 3rd EGT/TIT Heater (p/n 35291) capable of accepting competitors larger probes
- Easy access to the fuse for quick replacement if necessary
- Includes all reference probes and accessories needed for testing and calibrating EGT, TIT, and CHT systems

## Premium Engine Monitor Probe Packs

Whether you have a rock-solid Alcor analog gauge system or the latest digital engine monitor, don't settle for cheap probes.

Many engine monitors are available as kits with cheap short-lived probes. McFarlane recommends buying these monitors with the probes and then buying a premium Alcor Probe Pack for maximum reliability and responsiveness, or at least upgrading to Alcor probes when the probes that came with your monitor start to fail.

- Kits include probes, P/N 28202 bayonet adapters (where applicable), and a convenient accessory kit containing the hardware for connecting probe ring terminals to lead wire ring terminals (screws, nuts, and lock washers) as well as zip ties, 6" fiberglass sleeves, and ring terminals to replace spade, pin, and other termination types on the lead wire.
- Small element diameter provides near instantaneous instrument response
- Grounded probes provide longer life, faster response time, and are backed by a 5 year warranty.
- Provides sufficient electrical power for Alcor unamplified instruments
- For use with digital and analog engine monitoring systems (system must be compatible with grounded probes) ungrounded probes available upon request.

## FAA-PMA/STC Approved



FAA-PMA/STC Approved		
Kit P/N	Description	Kit Contains
38060	4 Cyl. EGT/TIT Probe Pack, Type K, Clamp Style	(4) 86255, (1) accessories Kit
38061	6 Cyl. EGT/TIT Probe Pack, Type K, Clamp Style	(6) 86255, (1) accessories Kit
38062	4 Cyl. CHT Probe Pack, Type K, Screw In Style	(4) 86253, (1) accessories Kit
38063	6 Cyl. CHT Probe Pack, Type K, Screw In Style	(6) 86253, (1) accessories Kit
38064	4 Cyl. CHT Probe Pack, Type K, Bayonet Style	(4) 86252, (4) 28202, (1) accessories Kit
38065	6 Cyl. CHT Probe Pack, Type K, Bayonet Style	(6) 86252, (6) 28202, (1) accessories Kit
38070	4 Cyl. CHT Probe Pack, Type J, Bayonet Style	(4) 86251, (4) 28202, (1) accessories Kit
38071	6 Cyl. CHT Probe Pack, Type J, Bayonet Style	(6) 86251, (6) 28202, (1) accessories Kit
38090	4 Cyl. EGT/TIT Probe Pack, Type K, Screw In Style	(4) 86240, (1) accessories Kit
38092	6 Cyl. EGT/TIT Probe Pack, Type K, Screw In Style	(6) 86240, (1) accessories Kit
38097	4 Cyl. EGT/TIT Probe Pack, Type K, Screw In Style	(4) 86245, (1) accessories Kit
38098	6 Cyl. EGT/TIT Probe Pack, Type K, Screw In Style	(6) 86245, (1) accessories Kit

Alcor probes aren't just for Alcor Gauges!

## JPI, EI and Westach to Alcor Probe Adapter Makes upgrading to premium Alcor EGT/TIT probes easy! P/N 74291

- Adapts small diameter (faster response) clamp style Alcor probes to exhaust hole diameters up to 0.25"
- Provides positive exhaust gas seal
- For EGT clamp style Probes



## Syringe for TCP Fuel Treatment P/N 73138

Make precise measurement easy!







### Stock

McFarlane has over 4,500 cable assemblies and chains in stock. We have FAA-PMA approved cables available in corrosion resistant stainless or high strength galvanized steel for most 100 and 200 series Cessna aircraft, PA28, PA32 and PA34 series Piper aircraft and G-164 series Ag-Cat aircraft. McFarlane also stocks cables for single engine piston and many turbine and twin engine Beechcraft, and stabilator adjust cables for Piper J-3, PA-11, PA-12, PA-14, PA-16, PA-18, PA-18A, PA-20 and PA-22.

### Quality

McFarlane aircraft flight control cables offer quality that is second to none in the aircraft industry. Our quality assurance procedures and personnel are relentless, insuring that our aircraft flight control cables meet the highest standards possible. These standards exceed the military specifications that govern aircraft flight control cables.

Each McFarlane cable assembly is made from the highest quality U.S. manufactured materials from suppliers that have been listed by the U.S. government as being tested and qualified for government use (QPL listed). Before cable assemblies are accepted a sample from each lot of cable assemblies is subjected to a test load equal to 100% of their rated minimum breaking strength and then destroyed. Every cable terminal swaged on a cable assembly is inspected for proper dimension. All cable assemblies produced are pre-stretched to eliminate rigging and growth changes after installation. In addition each and every McFarlane cable assembly must endure a sustained proof load equal to 60% of the cable's minimum rated breaking strength assuring the safest and highest quality aircraft flight control cables available.

- **McFarlane quality is second to none!**
- **Cables available in galvanized and stainless steel.**
- **Cables are sold in kits or separately.**
- **When you order cable and cable terminals from McFarlane you will always receive a certified product!**
- **Our large volume purchases give you great prices!**
- **Over 25 years of cable experience!**

### Custom Cables

Custom cable assemblies can be fabricated and certified to specification MIL-DTL-6117, or certified to your special specifications. McFarlane custom cables with standard fittings are pre stretched and proof loaded in accordance with MIL-DTL-5688. Cables using nonstandard fittings are proof loaded and pre stretched when possible, but cannot be certified to the MIL-DTL-5688 or MIL-DTL-6117 standards.

Traceability of all materials and test reports are maintained for our custom cables. Our extensive stock of cable and fittings allows us to provide one to three day service for most orders. A custom cable design form is available at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or send us your old cable.

Custom assemblies are manufactured using the same materials and attention to quality as our FAA-PMA products, however, custom cables are not FAA-PMA approved.

### Stainless Steel or Galvanized Steel Cable?

Stainless steel is corrosion resistant and works well in environments such as salt air, water saturation, or agricultural chemicals. Galvanized carbon steel and stainless cables are soaked in a MIL-SPEC rust preventative and lubricating compound. In normal environments the galvanized cable will not suffer from corrosion damage for decades.

The advantages of galvanized cable are its wear resistance and cost. Galvanized cable resists abrasion wear four or five times longer than stainless steel.

Stainless steel wire is high in nickel and therefore softer than the carbon steel wire. Stainless steel cable will show signs of wire wear at pulleys and fairleads much quicker than the galvanized carbon steel wire.

We recommend using galvanized steel cables except in coastal geographical areas, agricultural aircraft, float planes, and other applications where the cable is exposed directly to water. **Only McFarlane has FAA-PMA approved galvanized cables for the new production Cessna aircraft.**

All Beechcraft cables are made from galvanized steel cable and coated with a modified MIL-PRF-16173 compound. This is the same process used on Beechcraft original cables. It provides additional corrosion protection beyond the standard MIL-SPEC rust preventative oil. This provides both exceptional wear resistance and corrosion protection for many years.

### Bulk Cable

McFarlane buys certified cable in large quantities direct from the mill. This allows us to provide low prices on bulk cable. McFarlane offers pre-packaged bulk cable in a variety of sizes. Cable can be ordered in 100 ft. or 500 ft. lengths. Certification from the cable manufacturer is given with every order.

### Pulleys

McFarlane stocks all pulleys required for Cessna single engine aircraft. Our FAA-PMA approval on pulleys replace the AN, NAS and S series pulleys commonly used on the Cessna aircraft. Pulley kits are available that contain all the pulleys and cotter pins required for one aircraft. See the pulley section on pages 100-101 of the catalog for more details.

### Trim Control Chains

McFarlane offers the trim control chains for Cessna single engine and most Beechcraft aircraft. Don't forget to replace your trim control chains and connecting links where necessary!



### Hardware

McFarlane stocks an extensive inventory of cable hardware. We offer terminals, turnbuckles, eye ends, sleeves, locking clips, barrels and balls. Let our purchasing volume save you money!

### Buy Complete Kits and Save!

McFarlane has complete flight control cable and trim chain kits for each of the different cable groups required to service most single engine aircraft from the Cessna model 120 through model 210 and cable kits for most Piper single engine airplanes. Most of the light aircraft fleet has seen many years of service and have endured many flight hours. Worn, rusty, and frayed cables are now common. It is a tedious, time consuming job to research the part manuals for all of the cables required for a complete aircraft. McFarlane has done the research and has all of the part numbers required for your aircraft.

We stock kits in either galvanized-carbon steel or stainless steel. All components are fully traceable and carry a one year limited warranty.



Save \$\$\$ with  
McFarlane  
Cable Kits

**We are one of a few  
DOD QML-6117  
certified manufacturers of  
aircraft cable assemblies!**



# Flight Control System

## Flight Control Cables - Cessna



**120 1946-1947**  
S/N 8004 thru 12890  
Complete Cable Kit P/N CCKT120-01G (Galvanized)  
Complete Cable Kit P/N CCKT120-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-01\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-6			Elevator Trim Carry Thru
1	MC0400107-7 or 7S			Elevator Trim Aft
1	MC0400107-8 or 8S			Elevator Trim Forward
2	MC0400107-4 or 104			Rudder Control
2	MC0400107-1 or 1CS			Aileron Direct
1	MC0400107-2 or 2CS			Aileron Carry Thru
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**120 1947-1949**  
S/N 12891 thru 15075  
Complete Cable Kit P/N CCKT120-02G (Galvanized)  
Complete Cable Kit P/N CCKT120-02S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-01\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-7 or 7S			Elevator Trim Aft
1	MC0400107-8 or 8S			Elevator Trim Forward
1	MC0400107-11 or 111			Elev Trim Carry Thru Fwd
1	MC0400107-12 or 12S			Elev Trim Carry Thru Aft
2	MC0400107-4 or 104			Rudder Control
2	MC0400107-1 or 1CS			Aileron Direct
1	MC0400107-2 or 2CS			Aileron Carry Thru
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**140 1946**  
S/N 8004 thru 10069  
Complete Cable Kit P/N CCKT140-01G (Galvanized)  
Complete Cable Kit P/N CCKT140-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-01\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-6			Elevator Trim Carry Thru
1	MC0400107-7 or 7S			Elevator Trim Aft
1	MC0400107-8 or 8S			Elevator Trim Forward
2	MC0400107-4 or 104			Rudder Control
2	MC0400107-1 or 1CS			Aileron Direct
1	MC0400107-2 or 2CS			Aileron Carry Thru
1	MC0400107-3 or 3			Flap Control
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**140 1946-1947**  
S/N 10070 thru 12890  
Complete Cable Kit P/N CCKT140-02G (Galvanized)  
Complete Cable Kit P/N CCKT140-02S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-01\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-6			Elevator Trim Carry Thru
1	MC0400107-7 or 7S			Elevator Trim Aft
1	MC0400107-8 or 8S			Elevator Trim Forward
2	MC0400107-4 or 104			Rudder Control
2	MC0400107-1 or 1CS			Aileron Direct
1	MC0400107-2 or 2CS			Aileron Carry Thru
1	MC0400107-10 or 10S			Flap Control
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**140 1947-1949**  
S/N 12891 thru 15075  
Complete Cable Kit P/N CCKT140-03G (Galvanized)  
Complete Cable Kit P/N CCKT140-03S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-01\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-11 or 111			Elev Trim Carry Thru Fwd
1	MC0400107-12 or 12S			Elev Trim Carry Thru Aft
1	MC0400107-7 or 7S			Elevator Trim Aft
1	MC0400107-8 or 8S			Elevator Trim Forward
2	MC0400107-4 or 104			Rudder Control
2	MC0400107-1 or 1CS			Aileron Direct
1	MC0400107-2 or 2CS			Aileron Carry Thru
1	MC0400107-10 or 10S			Flap Control
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**140A 1949-1951**  
S/N 15200 thru 15724  
Complete Cable Kit P/N CCKT140-04G (Galvanized)  
Complete Cable Kit P/N CCKT140-04S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-02\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Control Up

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0400107-9 or 109			Elevator Control Down
1	MC0400107-11 or 111			Elev Trim Carry Thru Fwd
1	MC0400107-12 or 12S			Elev Trim Carry Thru Aft
1	MC0400107-13 or 113			Elevator Trim Aft
1	MC0400107-14 or 114			Elevator Trim Fwd
1	MC0400107-18 or 118			Aileron Carry Thru
2	MC0400107-17 or 117			Aileron Direct
1	MC0400107-10 or 10S			Flap Control
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**150 1959**  
S/N 17001 thru 17438  
Complete Cable Kit P/N CCKT150-01G (Galvanized)  
Complete Cable Kit P/N CCKT150-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-03\*

Qty	P/N	Galv	SS	Location
2	MC0400107-31 or 131			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-4 or 104			Rudder Control
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
1	MC0400107-22 or 122			Flap Extend Forward
1	MC0400107-23 or 123			Flap Retract Forward
2	MC0400107-34 or 134			Flap Extend LH
2	MC0400107-26 or 126			Flap Retract
1	MC0400107-11 or 111			Trim Wheel to Disconnect
1	MC0400107-29 or 129			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**150 1959**  
S/N 17439 thru 17558  
Complete Cable Kit P/N CCKT150-02G (Galvanized)  
Complete Cable Kit P/N CCKT150-02S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-03\*

Qty	P/N	Galv	SS	Location
2	MC0400107-31 or 131			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-4 or 104			Rudder Control
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
1	MC0400107-22 or 122			Flap Extend Forward
1	MC0400107-23 or 123			Flap Retract Forward
2	MC0400107-34 or 134			Flap Extend LH
2	MC0400107-26 or 126			Flap Retract
1	MC0400107-33 or 133			Flap Retract LH
1	MC0400107-11 or 111			Trim Wheel to Disconnect
1	MC0400107-29 or 129			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**150 1959-1960**  
S/N 17559 thru 59018  
Complete Cable Kit P/N CCKT150-03G (Galvanized)  
Complete Cable Kit P/N CCKT150-03S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-03\*

Qty	P/N	Galv	SS	Location
2	MC0400107-31 or 131			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-4 or 104			Rudder Control
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
1	MC0400107-22 or 122			Flap Extend Forward
1	MC0400107-23 or 123			Flap Retract Forward
2	MC0400107-34 or 134			Flap Extend LH
2	MC0400107-33 or 133			Flap Retract LH
1	MC0400107-11 or 111			Trim Wheel to Disconnect
1	MC0400107-29 or 129			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**150A,B,C 1961-1963**  
S/N 15059019 thru 15060087  
Complete Cable Kit P/N CCKT150-04G (Galvanized)  
Complete Cable Kit P/N CCKT150-04S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-04\*

Qty	P/N	Galv	SS	Location
2	MC0400107-35 or 135			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-4 or 104			Rudder Control
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
1	MC0400107-22 or 122			Flap Extend Forward

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0400107-23 or 123			Flap Retract Forward
2	MC0400107-34 or 134			Flap Extend LH
2	MC0400107-33 or 133			Flap Retract LH
1	MC0400107-11 or 111			Trim Wheel to Disconnect
1	MC0400107-29 or 129			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**150D,E 1964-1965**  
S/N 15060088 thru 15061532  
Complete Cable Kit P/N CCKT150-05G (Galvanized)  
Complete Cable Kit P/N CCKT150-05S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-05\* or 05\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-4 or 104			Rudder Control
1	MC0510105-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-39 or 139			Flap Extend Forward
2	MC0400107-37 or 137			Flap Retract Forward
2	MC0400107-40 or 140			Flap Extend to Bellcrank
2	MC0400107-38 or 138			Flap Retract to Bellcrank
1	MC0400107-11 or 111			Trim Wheel to Disconnect
1	MC0400107-29 or 129			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: S/N 15060088 thru 15061083 USE PULL-KT-05  
S/N 15061084 thru 15061532 USE PULL-KT-06

**150F 1966**  
S/N 15061533 thru 15061778  
Complete Cable Kit P/N CCKT150-06G (Galvanized)  
Complete Cable Kit P/N CCKT150-06S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-07\*

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
2	MC0400107-47 or 147			Rudder Control Forward
2	MC0400107-48 or 148			Rudder Control Aft
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-42 or 142			Trim Wheel to Disconnect
1	MC0400107-43 or 143			Trim Wheel to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
2	MCS2295P25-69			Elevator Trim Chain
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**150F,G 1966-1967 F150F,G 1966-1967**  
S/N 15061779 thru 15067198,  
S/N F1500001 thru F1500219  
Complete Cable Kit P/N CCKT150-11G (Galvanized)  
Complete Cable Kit P/N CCKT150-11S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-07\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
1	MC0400107-49 or 149			Rudder Control LH
1	MC0400107-50 or 150			Rudder Control RH
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-42 or 142			Trim Wheel to Disconnect
1	MC0400107-43 or 143			Trim Wheel to Turnbuckle
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-28 or 128			Trim Act to Disconnect
2	MCS2295P25-69			Chain to Tab Act
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: S/N 15061779 thru 15067198 only

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.  
 3 MC0400107-50/150 RH cable attaches to left side of rudder bell crank and right side of rudder pedal pedestal. MC0400107-49/149 LH cable attaches to right side of rudder bell crank and left side of rudder pedal pedestal.

# Flight Control System

## Flight Control Cables - Cessna



**150H 1968 F150H 1968**  
 S/N 15067199 thru 15069308, F1500220 thru F1500389  
 Complete Cable Kit P/N CCKT150-07G (Galvanized)  
 Complete Cable Kit P/N CCKT150-07S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-08\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-52 or 152			Trim Wheel to Disconnect
1	MC0400107-53 or 153			Trim Wheel to Turnbuckle
1	MCS2295P25-69			Chain to Tab Act
1	MCS2295-25-61			Chain Trim Wheel
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: For S/N 15061779 thru 15069308 only

**150J 1969, F150J 1969**  
 S/N 15069309 thru 15070503, F1500390 thru F1500529  
 Complete Cable Kit P/N CCKT150-08G (Galvanized)  
 Complete Cable Kit P/N CCKT150-08S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-09\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-54 or 154			Trim Wheel to Disconnect
1	MC0400107-55 or 155			Trim Wheel to Turnbuckle
1	MCS2295P25-69			Chain Trim Actuator
1	MCS2295-25-61			Chain Trim Wheel
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: For S/N 15069309 thru 15070503 only

**150J, K, L, M, A150K, L, M, FA150K, L, FRA150L, M 1969-1975**

S/N 15070504 thru 15077005 Note 1,  
 A1500001 thru A1500609 Note 2,  
 F15000530 thru F15001248 Note 3,  
 FA1500001 thru FA1500120 Note 4,  
 FRA1500121 thru FRA1500281 Note 5  
 Complete Cable Kit P/N CCKT150-09G (Galvanized)  
 Complete Cable Kit P/N CCKT150-09S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-09\* thru PULL-KT-12\*

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-28 or 128			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-55 or 155			Trim Wheel to Turnbuckle
1	MC0400107-56 or 156			Trim Wheel to Disconnect
1	MCS2295P25-69			Chain Trim Actuator
1	MCS2295P25-63			Chain Trim Wheel
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: S/N 15070504 thru 15071128 USE PULL-KT-09

S/N 15071129 thru 15074399 USE PULL-KT-10

S/N 15074400 thru 15074661 USE PULL-KT-11

S/N 15074662 thru 15077005 USE PULL-KT-12

Note 2: S/N A1500001 thru A1500387 USE PULL-KT-10

S/N A1500388 thru A1500415 USE PULL-KT-11

Note 3: S/N F15000530 thru F15000943 USE PULL-KT-10

S/N F1500944 thru F15001062 USE PULL-KT-11

S/N F15001063 thru F15001248 USE PULL-KT-12

Note 4: S/N FA1500001 thru FA1500120 USE PULL-KT-10

Note 5: S/N FRA1500121 thru FRA1500211 USE PULL-KT-10

S/N FRA1500212 thru FRA1500261 USE PULL-KT-12

**150M, A150M, F150M, FRA150M 1976-1977**  
 S/N 15077006 thru 15079405,  
 A1500610 thru A1500734,  
 F15001249 thru F15001428,  
 FRA1500282 thru FRA1500336  
 Complete Cable Kit P/N CCKT150-10G (Galvanized)  
 Complete Cable Kit P/N CCKT150-10S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-12\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-41 or 141			Aileron Direct
1	MC0400107-21 or 121			Aileron Carry Thru
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-57 or 157			Trim Act to Disconnect
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-55 or 155			Trim Wheel to Turnbuckle
1	MC0400107-56 or 156			Trim Wheel to Disconnect
1	MCS2295P25-69			Chain Trim Actuator
1	MCS2295P25-63			Chain Trim Wheel
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: PULL-KT-12 is eligible for all serial numbers except S/N A1500610 thru A1500734

**152, A152, F152, FA152 1978-1979**  
 S/N 15279406 thru 15281298,  
 15281300 thru 15281314, 15281316 thru 15281326,  
 15281328 thru 15281340, 15281342 thru 15281349,  
 15281351 thru 15281359, 15281361 thru 15281369,  
 15281371 thru 15281380, 15281382 thru 15281389,  
 15281391 thru 15281400, 15281402 thru 15281409,  
 15281411 thru 15281420, 15281422 thru 15281426,  
 A1520735 thru A1520785, F15201429 thru F15201538,  
 FA1520337 thru FA1520352  
 Complete Cable Kit P/N CCKT152-01G (Galvanized)  
 Complete Cable Kit P/N CCKT152-01S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-13\*

Qty	P/N	Galv	SS	Location
1	MC0400107-5 or 105			Elevator Up
1	MC0400107-9 or 109			Elevator Down
1	MC0400107-56 or 156			Trim Wheel to Disconnect
1	MC0400107-55 or 155			Trim Wheel to Turnbuckle
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-57 or 157			Trim Act to Disconnect
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
1	MC0400107-41 or 141			Aileron Direct
2	MC0400107-21 or 121			Aileron Carry Thru
1	MCS2295P25-63			Chain Trim Wheel
1	MCS2295P25-69			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: PULL-KT-13 is eligible for all serial numbers

**152, A152, F152, FA152 1978-1985**

S/N 15281299, 15281315, 15281327, 15281341,  
 15281350, 15281360, 15281370, 15281381, 15281390,  
 15281410, 15281410, 15281421,  
 15281427 thru 15286033, A1520786 thru A1521049,  
 F15201539 thru F15201980,  
 FA1520353 thru FA1520425  
 Complete Cable Kit P/N CCKT152-02G (Galvanized)  
 Complete Cable Kit P/N CCKT152-02S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-13\* Note 1

Qty	P/N	Galv	SS	Location
2	MC0400107-66 or 166			Elevator Forward
1	MC0400107-63 or 163			Elevator Up Aft
1	MC0400107-64 or 164			Elevator Down Aft
1	MC0400107-56 or 156			Trim Wheel to Disconnect
1	MC0400107-55 or 155			Trim Wheel to Turnbuckle
1	MC0400107-30 or 130			Trim Act to Turnbuckle
1	MC0400107-57 or 157			Tab Act to Disconnect
1	MC0400107-49 or 149	■		Rudder Control LH
1	MC0400107-50 or 150	■		Rudder Control RH
2	MC0400107-45 or 145			Flap
2	MC0400107-46 or 146			Flap
2	MC0400107-60 or 160			Aileron Direct Cabin
1	MC0400107-61 or 161			Aileron Direct LH Wing
1	MC0400107-65 or 165			Aileron Direct RH Wing
1	MC0400107-59 or 159			Aileron Carry Thru LH
1	MC0400107-58 or 158			Aileron Carry Thru RH
1	MCS2295P25-63			Chain Trim Wheel
1	MCS2295P25-69			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: PULL-KT-13 is eligible for all serial numbers

except as noted below.

For S/N F15201539 thru F15201952 only

For S/N FA1520353 thru FA1520387 only

**170 1948**  
 S/N 18000 thru 18729  
 Complete Cable Kit P/N CCKT170-01G (Galvanized)  
 Complete Cable Kit P/N CCKT170-01S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-14\*

Qty	P/N	Galv	SS	Location
2	MC0510105-2 or 102			Aileron Direct
2	MC0510105-3 or 103			Aileron Carry Thru
2	MC0510105-6 or 106			Flap Control Upper
1	MC0510105-5 or 105			Flap Control Lower
2	MC0510105-1 or 101			Rudder Control
2	MC0510105-4 or 104			Elevator Control
1	MC0510105-9 or 109			Trim Wheel to Turnbuckle
1	MC0510105-7 or 107			Trim Wheel to Disconnect
1	MC0510105-8 or 108			Trim Act to Turnbuckle
1	MC0510105-10 or 110			Trim Act to Disconnect
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**170A 1949-1951**

S/N 18730 thru 20266  
 Complete Cable Kit P/N CCKT170-02G (Galvanized)  
 Complete Cable Kit P/N CCKT170-02S (Stainless Steel)  
 Complete Cable Kit P/N CCKT170-02SF (Float Plane)  
 Complete Pulley Kit P/N PULL-KT-15\*

Qty	P/N	Galv	SS	Location
2	MC0510105-12 or 112			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-11 or 111			Flap Control Upper
1	MC0510105-5 or 105			Flap Control Lower 4
1	MC0510105-114			Flap Control Lower 5
2	MC0510105-1 or 101			Rudder Control
1	MC0510105-15 or 115			Elevator Control Upper
1	MC0510105-4 or 104			Elevator Control Lower
1	MC0510105-9 or 109			Trim Wheel to Turnbuckle
1	MC0510105-7 or 107			Trim Wheel to Disconnect
1	MC0510105-8 or 108			Trim Act to Turnbuckle
1	MC0510105-10 or 110			Trim Act to Disconnect
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**170B 1952-1954**

S/N 20267 thru 26504  
 Complete Cable Kit P/N CCKT170-03G (Galvanized)  
 Complete Cable Kit P/N CCKT170-03S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-16\*

Qty	P/N	Galv	SS	Location
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
2	MC0510105-59 or 159			Flap Direct Outboard
1	MC0510105-61 or 161			Flap Direct LH Inboard
1	MC0510105-62 or 162			Flap Direct RH Inboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return LH Inboard
1	MC0510105-64 or 164			Flap Return RH Inboard
2	MC0510105-1 or 101			Rudder Control
1	MC0510105-15 or 115			Elevator Control Upper
1	MC0510105-4 or 104			Elevator Control Lower
1	MC0510105-9 or 109			Trim Wheel to Turnbuckle
1	MC0510105-7 or 107			Trim Wheel to Disconnect
1	MC0510105-8 or 108			Trim Act to Turnbuckle
1	MC0510105-10 or 110			Trim Act to Disconnect
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**170B 1955-1956**

S/N 26505 thru 27169  
 Complete Cable Kit P/N CCKT170-04G (Galvanized)  
 Complete Cable Kit P/N CCKT170-04S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-16\*

Qty	P/N	Galv	SS	Location
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
2	MC0510105-59 or 159			Flap Direct Outboard
1	MC0510105-61 or 161			Flap Direct LH Inboard
1	MC0510105-62 or 162			Flap Direct RH Inboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return LH Inboard
1	MC0510105-64 or 164			Flap Return RH Inboard
2	MC0510105-1 or 101			Rudder Control
2	MC0510105-38 or 138			Tailwheel Steering

**Kit continues on next page**



# Flight Control System

## Flight Control Cables - Cessna



**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC0510105-15 or 115			Elevator Control Upper
1	MC0510105-4 or 104			Elevator Control Lower
1	MC0510105-9 or 109			Trim Wheel to Turnbuckle
1	MC0510105-7 or 107			Trim Wheel to Disconnect
1	MC0510105-8 or 108			Trim Act to Turnbuckle
1	MC0510105-10 or 110			Trim Act to Disconnect
2	MCS2295-25-63			Chain Elevator Trim
4	MCS2294-25			Chain Connecting Link

**172E 1956-1958**  
S/N 28000 thru 36965  
Complete Cable Kit P/N CCKT172175-01G (Galvanized)  
Complete Cable Kit P/N CCKT172175-01S (Stainless)  
Complete Pulley Kit P/N PULL-KT-17\*

Qty	P/N	Galv	SS	Location
2	MC0510105-39 or 139			Rudder Forward
1	MC0510105-56 or 156			Rudder Aft LH
1	MC0510105-55 or 155			Rudder Aft RH
1	MC0510105-42 or 142			Elevator Forward Upper
1	MC0510105-40 or 140			Elevator Forward Lower
1	MC0510105-41 or 141			Elevator Aft Upper
1	MC0510105-54 or 154			Elevator Aft Lower
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172E 1959, 175 1958-1959**  
S/N 36966 thru 46754, 55001 thru 56238  
Complete Cable Kit P/N CCKT172175-02G (Galvanized)  
Complete Cable Kit P/N CCKT172175-02S (Stainless)  
Complete Pulley Kit P/N PULL-KT-17\*

Qty	P/N	Galv	SS	Location
2	MC0510105-39 or 139			Rudder Forward
1	MC0510105-56 or 156			Rudder Aft LH
1	MC0510105-55 or 155			Rudder Aft RH
1	MC0510105-42 or 142			Elevator Forward Upper
1	MC0510105-40 or 140			Elevator Forward Lower
1	MC0510105-41 or 141			Elevator Aft Upper
1	MC0510105-54 or 154			Elevator Aft Lower
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-72 or 172			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172A, 1960**  
S/N 46755 thru 47298  
Complete Cable Kit P/N CCKT172175-03G (Galvanized)  
Complete Cable Kit P/N CCKT172175-03S (Stainless)  
Complete Pulley Kit P/N PULL-KT-17\*

Qty	P/N	Galv	SS	Location
2	MC0510105-39 or 139			Rudder Forward
1	MC0510105-75 or 175			Rudder Aft LH
1	MC0510105-76 or 176			Rudder Aft RH
1	MC0510105-42 or 142			Elevator Forward Upper
1	MC0510105-40 or 140			Elevator Forward Lower
1	MC0510105-41 or 141			Elevator Aft Upper
1	MC0510105-54 or 154			Elevator Aft Lower
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-72 or 172			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172A, B, C 1960-1962 175A, B, C 1960-1962**  
S/N 47299 thru 17249544, 56239 thru 17557119  
Complete Cable Kit P/N CCKT172175-04G (Galvanized)  
Complete Cable Kit P/N CCKT172175-04S (Stainless)  
Complete Pulley Kit P/N PULL-KT-17\*

Qty	P/N	Galv	SS	Location
2	MC0510105-39 or 139			Rudder Forward
1	MC0510105-80 or 180			Rudder Aft LH
1	MC0510105-81 or 181			Rudder Aft RH
1	MC0510105-42 or 142			Elevator Forward Upper
1	MC0510105-40 or 140			Elevator Forward Lower
1	MC0510105-41 or 141			Elevator Aft Upper
1	MC0510105-54 or 154			Elevator Aft Lower
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-72 or 172			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172D, P172, F172D, FP172 1963**  
S/N 17249545 thru 17250572,  
P17257120 thru P17257188, F172-0001 thru F172-0018,  
FP172-0001 thru FP172-0003  
Complete Cable Kit P/N CCKT172175-05G (Galvanized)  
Complete Cable Kit P/N CCKT172175-05S (Stainless)  
Complete Pulley Kit P/N PULL-KT-18\*

Qty	P/N	Galv	SS	Location
1	MC0510105-205 or 305			Rudder Forward LH
1	MC0510105-206 or 306			Rudder Forward RH
2	MC0510105-207 or 307			Rudder Aft
2	MC0510105-208 or 308			Elevator Forward
1	MC0510105-290 or 390			Elevator Aft Lower
1	MC0510105-291 or 391			Elevator Aft Upper
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-72 or 172			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172E 1964**  
S/N 17250573 thru 17251822  
Complete Cable Kit P/N CCKT172175-06G (Galvanized)  
Complete Cable Kit P/N CCKT172175-06S (Stainless)  
Complete Pulley Kit P/N PULL-KT-19\*

Qty	P/N	Galv	SS	Location
1	MC0510105-205 or 305			Rudder Forward LH

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0510105-206 or 306			Rudder Forward RH
2	MC0510105-207 or 307			Rudder Aft
2	MC0510105-208 or 308			Elevator Forward
1	MC0510105-290 or 390			Elevator Aft Lower
1	MC0510105-291 or 391			Elevator Aft Upper
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-58 or 158			Trim Wheel to Turnbuckle
1	MC0510105-57 or 157			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-217 or 317			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Upper
2	MC0510105-60 or 160			Flap Return Upper
1	MC0510105-63 or 163			Flap Return LH Lower
1	MC0510105-64 or 164			Flap Return RH Lower
1	MC0510105-61 or 161			Flap Direct LH Lower
1	MC0510105-62 or 162			Flap Direct RH Lower
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0713070-28			Cable Assy. Park Brake
1	MCS2295-25-71			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172F, G, H, I, K, L, P, F172F, G, H, K, L, P, FR172E, F, G, H, P 1965-1972**  
S/N 17251823 thru 17259834 Note 1,  
F172-0086 thru F17200820 Note 2,  
FR17200001 thru FR17200288 Note 3  
Complete Cable Kit P/N CCKT172175-07G (Galvanized)  
Complete Cable Kit P/N CCKT172175-07S (Stainless)  
Complete Pulley Kit P/N PULL-KT-20\* or PULL-KT-21\*

Qty	P/N	Galv	SS	Location
1	MC0510105-205 or 305			Rudder Forward LH
1	MC0510105-206 or 306			Rudder Forward RH
2	MC0510105-207 or 307			Rudder Aft
2	MC0510105-208 or 308			Elevator Forward
1	MC0510105-290 or 390			Elevator Aft Lower
1	MC0510105-291 or 391			Elevator Aft Upper
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-220 or 320			Trim Wheel to Turnbuckle
1	MC0510105-221 or 321			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-224 or 324			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-93 or 193			Flap Direct & Retract
2	MC0510105-94 or 194			Flap Direct & Retract
1	MC0510105-70 or 170			Parking Brake Cable
1	MC0713070-28			Cable Assy. Park Brake
1	MCS2295P25-55			Chain Trim Wheel
1	MCS2295-25-67			Chain Trim Actuator
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Note 1: S/N 17251823 thru 17259223 USE PULL-KT-20  
Note 2: USE PULL-KT-20  
Note 3: USE PULL-KT-21  
**172L, M, P, F172L, M, P, FR172H, J, P 1971-1975**  
S/N 17259835 thru 17264202, Note 1  
F17200821 thru F17201234, Note 2  
FR17200289 thru FR17200559 Note 3  
Complete Cable Kit P/N CCKT172175-08G (Galvanized)  
Complete Cable Kit P/N CCKT172175-08S (Stainless)  
Complete Pulley Kit P/N PULL-KT-20\*, -21\* or -22\*

Qty	P/N	Galv	SS	Location
1	MC0510105-205 or 305			Rudder Forward LH
1	MC0510105-206 or 306			Rudder Forward RH
2	MC0510105-207 or 307			Rudder Aft
2	MC0510105-208 or 308			Elevator Forward
1	MC0510105-290 or 390			Elevator Aft Lower
1	MC0510105-291 or 391			Elevator Aft Upper
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-215 or 315			Aileron Yoke LH

**Kit continues on next page**

\* See pages 100-101 for Pulley Kit Components  
1 Partial model eligibility  
2 Included in both galvanized and stainless kits.  
3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.



# Flight Control System

## Flight Control Cables - Cessna



Continued from previous page			
Qty	P/N	Galv SS	Location
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake Cable
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
Note 1: S/N 17259904 thru 17263458 USE PULL-KT-20 S/N 17263459 thru 17264202 USE PULL-KT-22			
Note 2: USE PULL-KT-20			
Note 3: USE PULL-KT-21			
172M, F172M, 1975			
S/N 17264203 thru 17265684, F17201235 thru F17201384			
Complete Cable Kit P/N CCKT172175-09G (Galvanized)			
Complete Cable Kit P/N CCKT172175-09S (Stainless)			
Complete Pulley Kit P/N PULL-KT-22*			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake Cable
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
172M, N, F172M, N, FR172, J, K, Q 1976-1979			
S/N 17265685 thru 17270454, F17201385 thru F17201829, FR17200571 thru FR17200640, Note 1 R1722000 thru R1722822, Note 2			
Complete Cable Kit P/N CCKT172175-10G (Galvanized)			
Complete Cable Kit P/N CCKT172175-10S (Stainless)			
Complete Pulley Kit P/N PULL-KT-22*, -21*			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder Assembly LH
1	MC0510105-238 or 338		Rudder Assembly RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-224 or 324		Aileron Direct
1	MC0510105-13 or 113		Aileron Carry Thru
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake Cable
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
Note 1: S/N FR17200571 thru FR17200590 USE PULL-KT-21, FR17200591 thru FR17200640 pulley kit not available.			
Note 2: Pulley kit not available			

172N, F172N, P, FR172K, 1978-1982			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Drct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake Cable
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
Note 1: Pulley kit not available			
172N, P, 1980, 1982, R, R172K, 1980-81			
S/N 17273851 thru 17275187, R1723354 thru R1723454 Note 1			
Complete Cable Kit P/N CCKT172175-12G (Galvanized)			
Complete Cable Kit P/N CCKT172175-12S (Stainless)			
Complete Pulley Kit P/N PULL-KT-22*			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0510105-220 or 320		Trim Wheel to Turnbuckle
1	MC0510105-221 or 321		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Drct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake Cable
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-55		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
Note 1: Pulley kit not available			
172P, Q 1982-1986, 172R, S 1996 and On			
S/N 17275188 thru 17276673 Note 1 17280001 and On, 172S8001 and On Note 2			
Complete Cable Kit P/N CCKT172175-13G (Galvanized)			
Complete Cable Kit P/N CCKT172175-13S (Stainless)			
Complete Pulley Kit P/N PULL-KT-19*, -22*			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0560051-4 or 104		Trim Wheel to Turnbuckle
1	MC0560051-5 or 105		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle

Kit continues in next column

Continued from previous column			
Qty	P/N	Galv SS	Location
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Drct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-278	2	Parking Brake
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-67		Chain Trim Actuator
1	MCS2295P25-59		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
Note 1: S/N 17275188 thru 17276673 USE PULL-KT-22			
Note 2: S/N 17280001 and On USE PULL-KT-19 S/N 172S8001 and On USE PULL-KT-19			
F172E 1964			
S/N F1720019 thru F1720085			
Complete Cable Kit P/N CCKT172175-14G (Galvanized)			
Complete Cable Kit P/N CCKT172175-14S (Stainless)			
Complete Pulley Kit P/N PULL-KT-19*			
Qty	P/N	Galv SS	Location
1	MC0510105-205 or 305		Rudder Forward LH
1	MC0510105-206 or 306		Rudder Forward RH
2	MC0510105-207 or 307		Rudder Aft
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-213 or 313		Aileron Yoke Primary
1	MC0510105-215 or 315		Aileron Yoke LH
1	MC0510105-214 or 314		Aileron Yoke RH
1	MC0510105-216 or 316		Aileron Yoke Transition
1	MC0510105-58 or 158		Trim Wheel to Turnbuckle
1	MC0510105-57 or 157		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
1	MC0510105-217 or 317		Aileron Direct
1	MC0510105-113 or 113		Aileron Carry Thru
2	MC0510105-59 or 159		Flap Direct Upper
2	MC0510105-60 or 160		Flap Return Upper
1	MC0510105-63 or 163		Flap Return LH Lower
1	MC0510105-64 or 164		Flap Return RH Lower
1	MC0510105-61 or 161		Flap Direct LH Lower
1	MC0510105-62 or 162		Flap Direct RH Lower
1	MC0510105-21 or 121		Flap Return Forward
1	MC0510105-22 or 122		Flap Direct Forward
1	MC0510105-70 or 170		Parking Brake
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295-25-71		Chain Trim Wheel
1	MCS2295-25-67		Chain Trim Actuator
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
F172P, 1982P-1986			
S/N F17202170 thru F17202254			
Complete Cable Kit P/N CCKT172175-15G (Galvanized)			
Complete Cable Kit P/N CCKT172175-15S (Stainless)			
Complete Pulley Kit P/N PULL-KT-22*			
Qty	P/N	Galv SS	Location
1	MC0510105-239 or 339		Rudder LH
1	MC0510105-238 or 338		Rudder RH
2	MC0510105-208 or 308		Elevator Forward
1	MC0510105-291 or 391		Elevator Aft Upper
1	MC0510105-290 or 390		Elevator Aft Lower
1	MC0510105-241 or 341		Aileron Yoke Primary
1	MC0510105-243 or 343		Aileron Yoke LH
1	MC0510105-242 or 342		Aileron Yoke RH
1	MC0510105-244 or 344		Aileron Yoke Transition
1	MC0560051-4 or 104		Trim Wheel to Turnbuckle
1	MC0560051-5 or 105		Trim Wheel to Disconnect
1	MC0510105-44 or 144		Trim Act to Turnbuckle
1	MC0510105-45 or 145		Trim Act to Disconnect
2	MC0510105-260 or 360		Aileron Direct to Top
2	MC0510105-262 or 362		Aileron Drct to Bellcrank
1	MC0510105-264 or 364		Cross to LH Bellcrank
1	MC0510105-265 or 365		Cross to RH Bellcrank
2	MC0510105-93 or 193	6	Flap Direct & Retract
2	MC0510105-94 or 194	6	Flap Direct & Retract
1	MC0510105-232	2	Parking Brake
1	MC0713070-28	2	Cable Assy. Park Brake
1	MCS2295P25-67		Chain Trim Actuator
1	MCS2295P25-59		Chain Trim Wheel
4	MCS2294-25		Chain Connecting Link
4	MC0422280		Aileron Bellcrank Bushing
* See pages 100-101 for Pulley Kit Components			
1 Partial model eligibility			
2 Included in both galvanized and stainless kits.			
3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.			

# Flight Control System

## Flight Control Cables - Cessna



**FR172J 1975-1976**  
 S/N FR17200560 thru FR17200570  
 Complete Cable Kit P/N CCKT172175-16G (Galvanized)  
 Complete Cable Kit P/N CCKT172175-16S (Stainless)  
 Complete Pulley Kit P/N PULL-KT-21\*

Qty	P/N	Galv	SS	Location
1	MC0510105-205 or 305			Rudder LH
1	MC0510105-206 or 306			Rudder RH
2	MC0510105-207 or 307			Rudder Aft
2	MC0510105-208 or 308			Elevator Forward
1	MC0510105-291 or 391			Elevator Aft Upper
1	MC0510105-290 or 390			Elevator Aft Lower
1	MC0510105-241 or 341			Aileron Yoke Primary
1	MC0510105-243 or 343			Aileron Yoke LH
1	MC0510105-242 or 342			Aileron Yoke RH
1	MC0510105-244 or 344			Aileron Yoke Transition
1	MC0510105-220 or 320			Trim Wheel to Turnbuckle
1	MC0510105-221 or 321			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Act to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
2	MC0510105-224 or 324			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-93 or 193			Flap Direct & Retract
2	MC0510105-94 or 194			Flap Direct & Retract
1	MC0510105-232			Parking Brake
1	MC0713070-28			Cable Assy Park Brake
1	MCS2295-25-67			Chain Trim Actuator
1	MCS2295P25-55			Chain Trim Wheel
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172RG 1980**  
 S/N 172RG0001 thru 172RG0076  
 Complete Cable Kit P/N CCKT172RG-01G (Galvanized)  
 Complete Cable Kit P/N CCKT172RG-01S (Stainless)

Qty	P/N	Galv	SS	Location
1	MC0510105-272 or 372			Rudder Forward LH
1	MC0510105-271 or 371			Rudder Forward RH
2	MC0510105-270 or 370			Rudder Aft
1	MCS2295P25-29			Chain, Rudder Trim, Fwd
1	MCS2295P25-93			Chain, Rudder Trim, Aft
2	MC0510105-269 or 369			Elevator Forward
1	MC0510105-293 or 393			Elevator Aft Upper
1	MC0510105-292 or 392			Elevator Aft Lower
1	MC0510105-241 or 341			Aileron Yoke Primary
1	MC0510105-243 or 343			Aileron Yoke LH
1	MC0510105-242 or 342			Aileron Yoke RH
1	MC0510105-244 or 344			Aileron Yoke Transition
1	MC0560051-6 or 106			Trim Wheel to Turnbuckle
1	MC0560051-7 or 107			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Actuator to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
1	MCS2295P25-59			Chain Trim Wheel
1	MCS2295P25-67			Chain Trim Actuator
2	MC0510105-277 or 377			Aileron Direct to Yoke
2	MC0510105-262 or 362			Aileron Drct to Bellcrank
2	MC0510105-265 or 365			Aileron Carry Thru RH
2	MC0510105-264 or 364			Aileron Carry Thru LH
2	MC0510105-93 or 193			Flap Direct and Retract
2	MC0510105-94 or 194			Flap Direct and Retract
1	MC0510105-232			Parking Brake
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**172RG 1980-1985**  
 S/N 172RG0077 thru 172RG1191  
 Complete Cable Kit P/N CCKT172RG-02G (Galvanized)  
 Complete Cable Kit P/N CCKT172RG-02S (Stainless)

Qty	P/N	Galv	SS	Location
1	MC0510105-272 or 372			Rudder Forward LH
1	MC0510105-271 or 371			Rudder Forward RH
2	MC0510105-270 or 370			Rudder Aft
1	MCS2295P25-29			Chain, Rudder Trim, Fwd
1	MCS2295P25-93			Chain, Rudder Trim, Aft
2	MC0510105-269 or 369			Elevator Forward
1	MC0510105-293 or 393			Elevator Aft Upper
1	MC0510105-292 or 392			Elevator Aft Lower
1	MC0510105-241 or 341			Aileron Yoke Primary
1	MC0510105-243 or 343			Aileron Yoke LH
1	MC0510105-242 or 342			Aileron Yoke RH
1	MC0510105-244 or 344			Aileron Yoke Transition
1	MC0560051-6 or 106			Trim Wheel to Turnbuckle
1	MC0560051-7 or 107			Trim Wheel to Disconnect
1	MC0510105-44 or 144			Trim Actuator to Turnbuckle
1	MC0510105-45 or 145			Trim Act to Disconnect
1	MCS2295P25-59			Chain Trim Wheel
1	MCS2295P25-67			Chain Trim Actuator
2	MC0510105-277 or 377			Aileron Direct to Yoke
2	MC0510105-262 or 362			Aileron Drct to Bellcrank
2	MC0510105-265 or 365			Aileron Carry Thru RH

Kit continues in next column

**Continued from previous column**

Qty	P/N	Galv	SS	Location
2	MC0510105-264 or 364			Aileron Carry Thru LH
2	MC0510105-93 or 193			Flap Direct and Retract
2	MC0510105-94 or 194			Flap Direct and Retract
1	MC0510105-278			Parking Brake
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**180 1953-1955**  
 S/N 30000 thru 32150  
 Complete Cable Kit P/N CCKT180-01G (Galvanized)  
 Complete Cable Kit P/N CCKT180-01S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-24\*

Qty	P/N	Galv	SS	Location
2	MC0510105-26 or 126			Rudder Control
2	MC0510105-123			Tailwheel Steering
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
2	MC0510105-28 or 128			Stabilator Trim Fwd
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**180 A,B 1956-1959**  
 S/N 32151 thru 50661  
 Complete Cable Kit P/N CCKT180-02G (Galvanized)  
 Complete Cable Kit P/N CCKT180-02S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-24\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-153			Tailwheel Steering
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Available separately for aircraft with camera option  
 1 MC0510105-128 Stabilizer Trim W/Camera  
 1 MC0510105-167 Rudder LH W/Camera  
 1 MC0510105-168 Rudder RH W/Camera  
 1 MC0510105-131 Elevator Up W/Camera  
 1 MC0510105-132 Elevator Down W/Camera

**180C 1960**  
 S/N 50662 thru 50744, 50746 thru 50747  
 Complete Cable Kit P/N CCKT180-03G (Galvanized)  
 Complete Cable Kit P/N CCKT180-03S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-25\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-153			Tailwheel Steering
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-79 or 179			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard

Kit continues in next column

**Continued from previous column**

Qty	P/N	Galv	SS	Location
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Available separately for aircraft with camera option  
 1 MC0510105-128 Stabilizer Trim W/Camera  
 1 MC0510105-167 Rudder LH W/Camera  
 1 MC0510105-168 Rudder RH W/Camera  
 1 MC0510105-131 Elevator Up W/Camera  
 1 MC0510105-132 Elevator Down W/Camera

**180C D,E,F,G 1960-1964**  
 S/N 50745, 50748 thru 18051410  
 Complete Cable Kit P/N CCKT180-04G (Galvanized)  
 Complete Cable Kit P/N CCKT180-04S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-25\* or -26\* Note 1

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-153			Tailwheel Steering
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

Available separately for aircraft with camera option  
 1 MC0510105-128 Stabilizer Trim W/Camera  
 1 MC0510105-167 Rudder LH W/Camera  
 1 MC0510105-168 Rudder RH W/Camera  
 1 MC0510105-131 Elevator Up W/Camera  
 1 MC0510105-132 Elevator Down W/Camera

Note 1: S/N 50745, 50748 thru 18051183 USE PULL-KT-25  
 S/N 18051184 thru 18051410 USE PULL-KT-26

**180G 1964**  
 S/N 18051411 thru 18051445  
 Complete Cable Kit P/N CCKT180-05G (Galvanized)  
 Complete Cable Kit P/N CCKT180-05S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-26\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323			Tailwheel Steering
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH

Kit continues on next page

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.  
 3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.

# Flight Control System

## Flight Control Cables - Cessna



**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

*Available separately for aircraft with camera option*

1	MC0510105-128			Stabilizer Trim W/Camera
1	MC0510105-167			Rudder LH W/Camera
1	MC0510105-168			Rudder RH W/Camera
1	MC0510105-131			Elevator Up W/Camera
1	MC0510105-132			Elevator Down W/Camera

**180H J 1965**  
S/N 18051446 thru 18051607  
Complete Cable Kit P/N CCKT180-06G (Galvanized)  
Complete Cable Kit P/N CCKT180-06S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-27\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323 2			Tailwheel Steering
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

*Available separately for aircraft with camera option*

1	MC0510105-128			Stabilizer Trim W/Camera
1	MC0510105-167			Rudder LH W/Camera
1	MC0510105-168			Rudder RH W/Camera
1	MC0510105-131			Elevator Up W/Camera
1	MC0510105-132			Elevator Down W/Camera

**180H J 1966-1971 J**  
S/N 18051608 thru 18052206  
Complete Cable Kit P/N CCKT180-07G (Galvanized)  
Complete Cable Kit P/N CCKT180-07S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-28\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323 2			Tailwheel Steering
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-225 or 325			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-227 or 327			Flap Direct Inboard LH
1	MC0510105-226 or 326			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MC0432138-2			Chain Trim Forward

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

*Available separately for aircraft with camera option*

1	MC0510105-128			Stabilizer Trim W/Camera
1	MC0510105-167			Rudder LH W/Camera
1	MC0510105-168			Rudder RH W/Camera
1	MC0510105-131			Elevator Up W/Camera
1	MC0510105-132			Elevator Down W/Camera

**180H J 1971 J-1973 J**  
S/N 18052207 thru 18052331  
Complete Cable Kit P/N CCKT180-08G (Galvanized)  
Complete Cable Kit P/N CCKT180-08S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-83\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323 2			Tailwheel Steering
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-225 or 325			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-227 or 327			Flap Direct Inboard LH
1	MC0510105-226 or 326			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-232 2			Parking Brake
1	MC0432138-2			Chain Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

*Available separately for aircraft with camera option*

1	MC0510105-128			Stabilizer Trim W/Camera
1	MC0510105-167			Rudder LH W/Camera
1	MC0510105-168			Rudder RH W/Camera
1	MC0510105-131			Elevator Up W/Camera
1	MC0510105-132			Elevator Down W/Camera

**180J J 1973 J**  
S/N 18052332 thru 18052384  
Complete Cable Kit P/N CCKT180-09G (Galvanized)  
Complete Cable Kit P/N CCKT180-09S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-83\*

Qty	P/N	Galv	SS	Location
1	MC0510105-71 or 171			Rudder Forward LH
1	MC0510105-237 or 337			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323 2			Tailwheel Steering
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-225 or 325			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-227 or 327			Flap Direct Inboard LH
1	MC0510105-226 or 326			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-232 2			Parking Brake
1	MC0432138-2			Chain Stab Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0510105-128			Stabilizer Trim W/Camera
1	MC0510105-167			Rudder LH W/Camera
1	MC0510105-168			Rudder RH W/Camera
1	MC0510105-131			Elevator Up W/Camera
1	MC0510105-132			Elevator Down W/Camera

**180J J 1974-1976**  
S/N 18052385 thru 18052770  
Complete Cable Kit P/N CCKT180-12G (Galvanized)  
Complete Cable Kit P/N CCKT180-12S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-29\*

Qty	P/N	Galv	SS	Location
1	MC0510105-71 or 171			Rudder Forward LH
1	MC0510105-237 or 337			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0510105-323 2			Tailwheel Steering
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-213 or 313			Aileron Yoke Primary
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-225 or 325			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-227 or 327			Flap Direct Inboard LH
1	MC0510105-226 or 326			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-232 2			Parking Brake
1	MC0432138-2			Chain Stab Trim Forward
1	MCS2295P25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

*Available separately for aircraft equipped with floats*

1	MC0742022-1 3			Rudder Return
1	MC0742022-2 3			Rudder Return

**180K J 1977-1980**  
S/N 18052771 thru 18053167  
Complete Cable Kit P/N CCKT180-10G (Galvanized)  
Complete Cable Kit P/N CCKT180-10S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-29\*

Qty	P/N	Galv	SS	Location
1	MC0510105-71 or 171			Rudder Forward LH
1	MC0510105-237 or 337			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
1	MC0510105-73 or 173			Rudder Bar Tie
2	MC0760135-106 2			Tailwheel Steering
1	MC0510105-394 2			Tailwheel Lock
2	MC0510105-222 or 322			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0760135-8 or 108			Aileron Yoke Primary
1	MC0510105-215 or 315			Aileron Yoke LH
1	MC0510105-214 or 314			Aileron Yoke RH
1	MC0510105-216 or 316			Aileron Yoke Transition
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
1	MC0510105-82 or 182			Elevator Trim
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-225 or 325			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-227 or 327			Flap Direct Inboard LH
1	MC0510105-226 or 326			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-232 2			Parking Brake
1	MCS2295P25-321			Chain Stab Trim Forward
1	MCS2295P25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**Kit continues on the next page**

\* See pages 100-101 for Pulley Kit Components  
**1** Partial model eligibility  
**2** Included in both galvanized and stainless kits.  
**3** S/N 18052501 thru 18052



# Flight Control System

## Flight Control Cables - Cessna

Continued from previous page		
Qty	P/N	Galv SS Location
<i>Available separately for aircraft equipped with floats</i>		
1	MC0742022-1	Rudder Return
1	MC0742022-2	Rudder Return
<b>180K 1981</b>		
S/N 18053168 thru 18053203		
Complete Cable Kit P/N CCKT180-11G (Galvanized)		
Complete Cable Kit P/N CCKT180-11S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-29*		
Qty	P/N	Galv SS Location
1	MC0510105-71 or 171	Rudder Forward LH
1	MC0510105-237 or 337	Rudder Forward RH
2	MC0510105-52 or 152	Rudder Aft
1	MC0510105-73 or 173	Rudder Bar Tie
2	MC0760135-106	Tailwheel Steering
1	MC0510105-394	Tailwheel Lock
2	MC0510105-222 or 322	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0760135-8 or 108	Aileron Yoke Primary
1	MC0510105-215 or 315	Aileron Yoke LH
1	MC0510105-214 or 314	Aileron Yoke RH
1	MC0510105-216 or 316	Aileron Yoke Transition
1	MC0510105-24 or 124	Elevator Upper
1	MC0510105-25 or 125	Elevator Lower
1	MC0510105-82 or 182	Elevator Trim
2	MC0510105-28 or 128	Stabilator Trim Forward
2	MC0510105-29 or 129	Stabilator Trim Aft
2	MC0510105-225 or 325	Flap Direct Outboard
2	MC0510105-60 or 160	Flap Return Outboard
1	MC0510105-63 or 163	Flap Return Inboard LH
1	MC0510105-64 or 164	Flap Return Inboard RH
1	MC0510105-227 or 327	Flap Direct Inboard LH
1	MC0510105-226 or 326	Flap Direct Inboard RH
1	MC0510105-21 or 121	Flap Return Forward
1	MC0510105-22 or 122	Flap Direct Forward
1	MC0510105-278	Parking Brake
1	MCS2295P25-321	Chain Stab Trim Forward
1	MCS2295P25-185	Chain Stab Trim Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Bellcrank Aileron Bushing
<i>Available separately for aircraft equipped with floats</i>		
1	MC0742022-1	Rudder Return
1	MC0742022-2	Rudder Return
<b>182, A, B 1956-1959</b>		
S/N 33000 thru 52358		
Complete Cable Kit P/N CCKT182-01G (Galvanized)		
Complete Cable Kit P/N CCKT182-01S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-34*		
Qty	P/N	Galv SS Location
1	MC0510105-26 or 126	Rudder Control LH
1	MC0510105-66 or 166	Rudder Control RH
1	MC0510105-73 or 173	Rudder Bar Tie
2	MC0510105-16 or 116	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
2	MC0510105-28 or 128	Stabilator Trim Forward
2	MC0510105-29 or 129	Stabilator Trim Aft
1	MC0510105-24 or 124	Elevator Upper
1	MC0510105-25 or 125	Elevator Lower
1	MC0510105-79 or 179	Elevator Trim
2	MC0510105-59 or 159	Flap Direct Outboard
2	MC0510105-60 or 160	Flap Return Outboard
1	MC0510105-63 or 163	Flap Return Inboard LH
1	MC0510105-64 or 164	Flap Return Inboard RH
1	MC0510105-61 or 161	Flap Direct Inboard LH
1	MC0510105-62 or 162	Flap Direct Inboard RH
1	MC0510105-21 or 121	Flap Return Forward
1	MC0510105-22 or 122	Flap Direct Forward
1	MC0510105-70 or 170	Parking Brake
1	MC0432138-2	Chain Stab Trim Forward
1	MCS2295-25-185	Chain Stab Trim Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Bellcrank Aileron Bushing
<b>182C 1960</b>		
S/N 52359 thru 52611 & 52613		
Complete Cable Kit P/N CCKT182-02G (Galvanized)		
Complete Cable Kit P/N CCKT182-02S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-35*		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
1	MC0510105-73 or 173	Rudder Bar Tie
2	MC0510105-16 or 116	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-24 or 124	Elevator Upper
1	MC0510105-25 or 125	Elevator Lower
1	MC0510105-79 or 179	Elevator Trim
2	MC0510105-59 or 159	Flap Direct Outboard
2	MC0510105-60 or 160	Flap Return Outboard
1	MC0510105-63 or 163	Flap Return Inboard LH
1	MC0510105-64 or 164	Flap Return Inboard RH
1	MC0510105-61 or 161	Flap Direct Inboard LH
1	MC0510105-62 or 162	Flap Direct Inboard RH
1	MC0510105-21 or 121	Flap Return Forward
1	MC0510105-22 or 122	Flap Direct Forward
1	MC0510105-70 or 170	Parking Brake
1	MC0432138-2	Chain Stab Trim Forward
1	MCS2295-25-185	Chain Stab Trim Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Bellcrank Aileron Bushing
<b>182C 1960</b>		
S/N 52359 thru 52611 & 52613		
Complete Cable Kit P/N CCKT182-02G (Galvanized)		
Complete Cable Kit P/N CCKT182-02S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-35*		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
1	MC0510105-73 or 173	Rudder Bar Tie
2	MC0510105-16 or 116	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-24 or 124	Elevator Upper
1	MC0510105-25 or 125	Elevator Lower
1	MC0510105-79 or 179	Elevator Trim

Continued from previous column		
Qty	P/N	Galv SS Location
2	MC0510105-28 or 128	Stabilator Trim Forward
2	MC0510105-29 or 129	Stabilator Trim Aft
2	MC0510105-59 or 159	Flap Direct Outboard
2	MC0510105-60 or 160	Flap Return Outboard
1	MC0510105-63 or 163	Flap Return Inboard LH
1	MC0510105-64 or 164	Flap Return Inboard RH
1	MC0510105-61 or 161	Flap Direct Inboard LH
1	MC0510105-62 or 162	Flap Direct Inboard RH
1	MC0510105-21 or 121	Flap Return Forward
1	MC0510105-22 or 122	Flap Direct Forward
1	MC0510105-70 or 170	Parking Brake
1	MC0432138-2	Chain Stab Trim Forward
1	MCS2295-25-185	Chain Stab Trim Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Bellcrank Aileron Bushing
<b>182C, D 1960-1961</b>		
S/N 52612, 52614 thru 53007		
18253008 thru 18253598		
Complete Cable Kit P/N CCKT182-03G (Galvanized)		
Complete Cable Kit P/N CCKT182-03S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-35*		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
1	MC0510105-73 or 173	Rudder Bar Tie
2	MC0510105-16 or 116	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-24 or 124	Elevator Upper
1	MC0510105-25 or 125	Elevator Lower
1	MC0510105-82 or 182	Elevator Trim
2	MC0510105-28 or 128	Stabilator Trim Forward
2	MC0510105-29 or 129	Stabilator Trim Aft
2	MC0510105-59 or 159	Flap Direct Outboard
2	MC0510105-60 or 160	Flap Return Outboard
1	MC0510105-63 or 163	Flap Return Inboard LH
1	MC0510105-64 or 164	Flap Return Inboard RH
1	MC0510105-61 or 161	Flap Direct Inboard LH
1	MC0510105-62 or 162	Flap Direct Inboard RH
1	MC0510105-21 or 121	Flap Return Forward
1	MC0510105-22 or 122	Flap Direct Forward
1	MC0510105-70 or 170	Parking Brake
1	MC0432138-2	Chain Stab Trim Forward
1	MCS2295-25-185	Chain Stab Trim Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Bellcrank Aileron Bushing
<b>182E 1962</b>		
S/N 18253599 thru 18253929		
Complete Cable Kit P/N CCKT182-04G (Galvanized)		
Complete Cable Kit P/N CCKT182-04S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-36*		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
2	MC0510105-95 or 195	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-90 or 190	Elevator LH Yoke
1	MC0510105-89 or 189	Elevator RH Yoke
1	MC0510105-88 or 188	Elevator Down Spring
1	MC0510105-86 or 186	Elevator Trim Forward LH
1	MC0510105-97 or 197	Elevator Trim Forward RH
1	MC0510105-87 or 187	Elevator Trim Aft LH
1	MC0510105-98 or 198	Elevator Trim Aft RH
1	MC0510105-93 or 193	Flap Retract
1	MC0510105-91 or 191	Flap Direct LH
1	MC0510105-94 or 194	Flap Retract
1	MC0510105-92 or 192	Flap Direct RH
1	MC0510105-85	Parking Brake
1	MC1260078-5	Aileron Drive Quadrant
1	MCS2295-25-67	Elevator Trim Chain Fwd
1	MCS2295-25-71	Elevator Trim Chain Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Aileron Bellcrank Bushing
<b>182E, F, G 1962-1964</b>		
S/N 18253930 thru 18255844		
Complete Cable Kit P/N CCKT182-05G (Galvanized)		
Complete Cable Kit P/N CCKT182-05S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-85*		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
2	MC0510105-95 or 195	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-90 or 190	Elevator LH Yoke
1	MC0510105-89 or 189	Elevator RH Yoke

Continued from previous column		
Qty	P/N	Galv SS Location
1	MC0510105-88 or 188	Elevator Down Spring
1	MC0510105-201 or 301	Elevator Trim Fwd LH
1	MC0510105-202 or 302	Elevator Trim Fwd RH
1	MC0510105-87 or 187	Elevator Trim Aft LH
1	MC0510105-98 or 198	Elevator Trim Aft RH
1	MC0510105-93 or 193	Flap Retract
1	MC0510105-91 or 191	Flap Direct LH
1	MC0510105-94 or 194	Flap Retract
1	MC0510105-92 or 192	Flap Direct RH
1	MC0510105-85	Parking Brake
1	MCS2295-25-67	Elevator Trim Chain Fwd
1	MCS2295-25-71	Elevator Trim Chain Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Aileron Bellcrank Bushing
<b>182H, J, K 1965-1967</b>		
S/N 18255845 thru 18258505		
Complete Cable Kit P/N CCKT182-06G (Galvanized)		
Complete Cable Kit P/N CCKT182-06S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-85* or -36* Note 1		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
2	MC0510105-95 or 195	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC0510105-90 or 190	Elevator LH Yoke
1	MC0510105-89 or 189	Elevator RH Yoke
1	MC0510105-201 or 301	Elevator Trim Fwd LH
1	MC0510105-202 or 302	Elevator Trim Fwd RH
1	MC0510105-87 or 187	Elevator Trim Aft LH
1	MC0510105-98 or 198	Elevator Trim Aft RH
1	MC0510105-93 or 193	Flap Retract
1	MC0510105-91 or 191	Flap Direct LH
1	MC0510105-94 or 194	Flap Retract
1	MC0510105-92 or 192	Flap Direct RH
1	MC0510105-85	Parking Brake
1	MCS2295-25-67	Elevator Trim Chain Fwd
1	MCS2295-25-71	Elevator Trim Chain Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Aileron Bellcrank Bushing
Note 1: S/N 18255845 thru 18257625 USE PULL-KT-85 S/N 18257626 thru 18258399 USE PULL-KT-36 S/N 18258400 thru 18258505 USE PULL-KT-85		
<b>182L, M, N, P 1968-1973</b>		
S/N 18258506 thru 18262465		
Complete Cable Kit P/N CCKT182-07G (Galvanized)		
Complete Cable Kit P/N CCKT182-07S (Stainless Steel)		
Complete Pulley Kit P/N PULL-KT-37*, -38*, -86* Note 1		
Qty	P/N	Galv SS Location
1	MC0510105-77 or 177	Rudder Control LH
1	MC0510105-78 or 178	Rudder Control RH
2	MC1260105-9 or 109	Rudder Aft
2	MC0510105-228 or 328	Aileron Direct
1	MC0510105-13 or 113	Aileron Carry Thru
1	MC1260078-3 or 103	Aileron Yoke RH
1	MC1260078-2 or 102	Aileron Yoke LH
1	MC0510105-90 or 190	Elevator LH Yoke
1	MC0510105-89 or 189	Elevator RH Yoke
1	MC0510105-201 or 301	Elevator Trim Fwd LH
1	MC0510105-202 or 302	Elevator Trim Fwd RH
1	MC0510105-87 or 187	Elevator Trim Aft LH
1	MC0510105-98 or 198	Elevator Trim Aft RH
1	MC0510105-93 or 193	Flap Retract
1	MC0510105-91 or 191	Flap Direct LH
1	MC0510105-94 or 194	Flap Retract
1	MC0510105-92 or 192	Flap Direct RH
1	MC0510105-85	Parking Brake
1	MC1260078-5	Aileron Drive Quadrant
1	MCS2295-25-67	Elevator Trim Chain Fwd
1	MCS2295-25-71	Elevator Trim Chain Aft
4	MCS2294-25	Chain Connecting Link
4	MC0422280	Aileron Bellcrank Bushing
Note 1: S/N 18258506 thru 18260445 USE PULL-KT-37 S/N 18260446 thru 18260669 USE PULL-KT-38 S/N 18260670 thru 18262465 USE PULL-KT-86		

**P/Ns MC1260078-2, -102, -3 and -103  
Aileron Yoke cables are currently not  
included in 182 cable kits due to  
pending FAA-PMA approval.**

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.  
 3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.



# Flight Control System

## Flight Control Cables - Cessna



**182P, Q, R, T, 182, F182P, Q 1974- 1981**  
S/N 18262466 thru 18267789  
F18200001 thru F18200169  
Complete Cable Kit P/N CCKT182-08G (Galvanized)  
Complete Cable Kit P/N CCKT182-08S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-39\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-9 or 109			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC1260078-3 or 103			Aileron Yoke RH
1	MC1260078-2 or 102			Aileron Yoke LH
1	MC0510105-90 or 190			Elevator LH Yoke
1	MC0510105-89 or 189			Elevator RH Yoke
1	MC0510105-201 or 301			Elevator Trim Fwd LH
1	MC0510105-202 or 302			Elevator Trim Fwd RH
1	MC0510105-87 or 187			Elevator Trim Aft LH
1	MC0510105-98 or 198			Elevator Trim Aft RH
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-233 or 333			Parking Brake
1	MC1260078-5	2		Aileron Drive Quadrant
1	MCS2295-25-67			Elevator Trim Chain Fwd
1	MCS2295-25-71			Elevator Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Aileron Bellcrank Bushing

**182R, T, 182, 1981, 1982**  
S/N 18267790 thru 18268293  
Complete Cable Kit P/N CCKT182-09G (Galvanized)  
Complete Cable Kit P/N CCKT182-09S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-39\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-9 or 109			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC1260078-3 or 103			Aileron Yoke RH
1	MC1260078-2 or 102			Aileron Yoke LH
1	MC0510105-90 or 190			Elevator LH Yoke
1	MC0510105-89 or 189			Elevator RH Yoke
1	MC0510105-201 or 301			Elevator Trim Fwd LH
1	MC0510105-202 or 302			Elevator Trim Fwd RH
1	MC0510105-87 or 187			Elevator Trim Aft LH
1	MC0510105-98 or 198			Elevator Trim Aft RH
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-279	2		Parking Brake
1	MC1260078-5	2		Aileron Drive Quadrant
1	MCS2295-25-67			Elevator Trim Chain Fwd
1	MCS2295-25-71			Elevator Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**182R, T, 182, 1983-1986**  
S/N 18268294 thru 18268615  
Complete Cable Kit P/N CCKT182-10G (Galvanized)  
Complete Cable Kit P/N CCKT182-10S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-39\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-9 or 109			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC1260078-3 or 103			Aileron Yoke RH
1	MC1260078-2 or 102			Aileron Yoke LH
1	MC0510105-90 or 190			Elevator LH Yoke
1	MC0510105-89 or 189			Elevator RH Yoke
1	MC0510105-201 or 301			Elevator Trim Fwd LH
1	MC0510105-202 or 302			Elevator Trim Fwd RH
1	MC0510105-87 or 187			Elevator Trim Aft LH
1	MC0510105-98 or 198			Elevator Trim Aft RH
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-279	2		Parking Brake
1	MC1260078-5	2		Aileron Drive Quadrant
1	MCS2295P25-67			Elevator Trim Chain Fwd
1	MCS2295P25-71			Elevator Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**R182, TR182, FR182 1978-1981**  
S/N R18200001 thru R18201679,  
FR18200001 thru FR18200070  
Complete Cable Kit P/N CCKT182-11G (Galvanized)  
Complete Cable Kit P/N CCKT182-11S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-40\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-18 or 118			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-250 or 350			Elevator LH Yoke
1	MC0510105-249 or 349			Elevator RH Yoke
1	MC0510105-245 or 345			Elevator Trim LH Forward
1	MC0510105-246 or 346			Elevator Trim RH Forward
1	MC0510105-247 or 347			Elevator Trim LH Aft
1	MC0510105-248 or 348			Elevator Trim RH Aft
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-233 or 333			Parking Brake
1	MCS2295P25-67			Elev Trim Chain Forward
1	MCS2295P25-71			Elev Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**R182, TR182, 1981, 1986**  
S/N R18201680 thru R18202041  
Complete Cable Kit P/N CCKT182-12G (Galvanized)  
Complete Cable Kit P/N CCKT182-12S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-40\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-18 or 118			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-250 or 350			Elevator LH Yoke
1	MC0510105-249 or 349			Elevator RH Yoke
1	MC0510105-245 or 345			Elevator Trim LH Forward
1	MC0510105-246 or 346			Elevator Trim RH Forward
1	MC0510105-247 or 347			Elevator Trim LH Aft
1	MC0510105-248 or 348			Elevator Trim RH Aft
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-279	2		Parking Brake
1	MCS2295P25-67			Elev Trim Chain Forward
1	MCS2295P25-71			Elev Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**182S, 182T, T182T 1997 and On**  
S/N 18280001 and On, T18208001 and On  
Complete Cable Kit P/N CCKT182-13G (Galvanized)  
Complete Cable Kit P/N CCKT182-13S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-80\*

Qty	P/N	Galv	SS	Location
1	MC0510105-77 or 177			Rudder Control LH
1	MC0510105-78 or 178			Rudder Control RH
2	MC1260105-9 or 109			Rudder Aft
2	MC0510105-228 or 328			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
1	MC0510105-90 or 190			Elevator LH Yoke
1	MC0510105-89 or 189			Elevator RH Yoke
1	MC0510105-201 or 301			Elevator Trim Fwd LH
1	MC0510105-202 or 302			Elevator Trim Fwd RH
1	MC0510105-87 or 187			Elevator Trim Aft LH
1	MC0510105-98 or 198			Elevator Trim Aft RH
1	MC0510105-93 or 193	6		Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-94 or 194	6		Flap Retract
1	MC0510105-92 or 192			Flap Direct RH
1	MC1260078-5 or 105			Aileron Yoke Primary
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC0510105-279	2		Parking Brake
1	MCS2295P25-67			Elevator Trim Chain Fwd
1	MCS2295P25-71			Elevator Trim Chain Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**P/Ns MC1260078-2, -102, -3 and -103 Aileron Yoke cables are currently not included in 182 cable kits due to pending FAA-PMA approval.**

**185 1961**  
S/N 1850001 thru 1850237  
Complete Cable Kit P/N CCKT185-01G (Galvanized)  
Complete Cable Kit P/N CCKT185-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-30\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-196	2		Tailwheel Steering
1	MC0510105-73 or 173			Rudder Trim
1	MC0510105-82 or 182			Elevator Trim
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MCS2295P25-321			Chain Stab Trim Forward
1	MCS2295-25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**185A, B, C, 1962-1964**  
S/N 1850238 thru 1850768  
Complete Cable Kit P/N CCKT185-02G (Galvanized)  
Complete Cable Kit P/N CCKT185-02S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-30\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-199	2		Tailwheel Steering
1	MC0510105-73 or 173			Rudder Trim
1	MC0510105-82 or 182			Elevator Trim
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH
1	MC0510105-64 or 164			Flap Return Inboard RH
1	MC0510105-61 or 161			Flap Direct Inboard LH
1	MC0510105-62 or 162			Flap Direct Inboard RH
1	MC0510105-21 or 121			Flap Return Forward
1	MC0510105-22 or 122			Flap Direct Forward
1	MC0510105-70 or 170			Parking Brake
1	MCS2295-25-185			Chain Stab Trim Aft
1	MCS2295P25-321			Chain Stab Trim Forward
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

**185C, 1964**  
S/N 1850769 thru 1850776  
Complete Cable Kit P/N CCKT185-03G (Galvanized)  
Complete Cable Kit P/N CCKT185-03S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-30\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51 or 151			Rudder Forward LH
1	MC0510105-71 or 171			Rudder Forward RH
2	MC0510105-52 or 152			Rudder Aft
2	MC0510105-323	2		Tailwheel Steering
1	MC0510105-73 or 173			Rudder Trim
1	MC0510105-82 or 182			Elevator Trim
1	MC0510105-24 or 124			Elevator Upper
1	MC0510105-25 or 125			Elevator Lower
2	MC0510105-28 or 128			Stabilator Trim Forward
2	MC0510105-29 or 129			Stabilator Trim Aft
2	MC0510105-16 or 116			Aileron Direct
1	MC0510105-13 or 113			Aileron Carry Thru
2	MC0510105-59 or 159			Flap Direct Outboard
2	MC0510105-60 or 160			Flap Return Outboard
1	MC0510105-63 or 163			Flap Return Inboard LH

**Kit continues on next page**

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.  
 6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.





**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC0510105-13	or 113		Aileron Carry Thru
2	MC0510105-225	or 325		Flap Direct Outboard
2	MC0510105-60	or 160		Flap Return Outboard
1	MC0510105-63	or 163		Flap Return Inboard LH
1	MC0510105-64	or 164		Flap Return Inboard RH
1	MC0510105-227	or 327		Flap Direct Inboard LH
1	MC0510105-226	or 326		Flap Direct Inboard RH
1	MC0510105-21	or 121		Flap Return Forward
1	MC0510105-22	or 122		Flap Direct Forward
1	MC0510105-278	2		Parking Brake
1	MCS2295P25-321			Chain Stab Trim Forward
1	MCS2295P25-185			Chain Stab Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

*Available separately for aircraft equipped with floats*

1	MC0742022-1			Rudder Return
1	MC0742022-2			Rudder Return

**A185F 1982-1985**  
S/N 18504380, 18504392 thru 18504448  
Complete Cable Kit P/N CCKT185-10G (Galvanized)  
Complete Cable Kit P/N CCKT185-10S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-33\*

Qty	P/N	Galv	SS	Location
1	MC0510105-51	or 151		Rudder Forward LH
1	MC0510105-237	or 337		Rudder Forward RH
2	MC0510105-52	or 152		Rudder Aft
2	MC0760135-106	2		Tailwheel Steering
1	MC0510105-394	2		Tailwheel Lock
1	MC0510105-73	or 173		Rudder Trim
1	MC0510105-82	or 182		Elevator Trim
1	MC0510105-24	or 124		Elevator Upper
1	MC0510105-25	or 125		Elevator Lower
2	MC0510105-28	or 128		Stabilator Trim Forward
2	MC0510105-29	or 129		Stabilator Trim Aft
1	MC0510105-215	or 315		Aileron Yoke LH
1	MC0510105-214	or 314		Aileron Yoke RH
1	MC0760135-8	or 108		Aileron Yoke Primary
1	MC0510105-216	or 316		Aileron Yoke Transition
2	MC0510105-295	or 395		Aileron Direct to Yoke
2	MC0510105-262	or 362		Aileron Drct to Bellcrank
1	MC0510105-264	or 364		Aileron Carry Thru LH
1	MC0510105-265	or 365		Aileron Carry Thru RH
2	MC0510105-225	or 325		Flap Direct Outboard
1	MC0510105-227	or 327		Flap Direct Inboard LH
1	MC0510105-226	or 326		Flap Direct Inboard RH
1	MC0510105-21	or 121		Flap Return Forward
1	MC0510105-22	or 122		Flap Direct Forward
2	MC0510105-60	or 160		Flap Return Outboard
1	MC0510105-63	or 163		Flap Return Inboard LH
1	MC0510105-64	or 164		Flap Return Inboard RH
1	MC0510105-278	2		Parking Brake
1	MCS2295P25-321			Stabilator Trim Forward
1	MCS2295P25-185			Stabilator Trim Aft
4	MCS2294-25			Chain Connecting Link
4	MC0422280			Bellcrank Aileron Bushing

*Available separately for aircraft equipped with floats*

1	MC0742022-1			Rudder Return
1	MC0742022-2			Rudder Return

**188, A188 1966-1967**  
S/N 1880001 thru 1880293  
Complete Cable Kit P/N CCKT188-01  
Complete Pulley Kit P/N PULL-KT-41\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	1660300-17	Flap Retract to Lever
1	1660300-16	Flap Direct to Lever
2	MC1660300-8	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
2	MC0510105-323			Tailwheel Steering
4	MC0422280			Bellcrank Aileron Bushing

**188, A188 1966-1967**  
S/N 1880294 thru 1880317  
Complete Cable Kit P/N CCKT188-02  
Complete Pulley Kit P/N PULL-KT-41\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
2	MC1660300-8	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd
1	MCS2295P25-71	Elevator Trim Chain Aft
2	MCS2294-25	Connecting Link
4	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft
2	MC0510105-323	Tailwheel Steering
4	MC0422280	Bellcrank Aileron Bushing

**188, A188 1968-1969**  
S/N 1880318 thru 1880572  
Complete Cable Kit P/N CCKT188-03  
Complete Pulley Kit P/N PULL-KT-42\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
2	MC1660300-8	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
4	MC0422280	Bellcrank Aileron Bushing

**188A, A188A 1970-1971**  
S/N 18800573 thru 18800707  
Complete Cable Kit P/N CCKT188-04  
Complete Pulley Kit P/N PULL-KT-43\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
2	MC1660300-8	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-11	Aileron Carry Thru LH
1	MC1660300-10	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Location
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
4	MC0422280	Bellcrank Aileron Bushing

**188A, A188A 1970-1971**  
S/N 18800708 thru 18800832  
Complete Cable Kit P/N CCKT188-05  
Complete Pulley Kit P/N PULL-KT-44\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
2	MC1660300-35	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
4	MC0422280	Bellcrank Aileron Bushing

**188B, A188B 1972**  
S/N 18800833 thru 18800874  
Complete Cable Kit P/N CCKT188-06  
Complete Pulley Kit P/N PULL-KT-44\*

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever
2	MC1660300-35	Aileron Dir to Torque Tube
2	MC1660300-9	Aileron Direct to Bellcrank
1	MC1660300-33	Aileron Carry Thru LH
1	MC1660300-38	Aileron Carry Thru RH
1	MC1660300-3	Elevator Down Forward
1	MC1660300-5	Elevator Up
1	MC1660300-4	Elevator Down Aft
1	MC1660300-6	Elevator Trim Fwd Upper
1	MC1660300-7	Elevator Trim Fwd Lower
1	MC0510105-187	Elevator Trim Aft Lower
1	MC0510105-198	Elevator Trim Aft Upper
1	MCS2295-25-70	Elevator Trim Chain Fwd
1	MCS2295P25-71	Elevator Trim Chain Aft
4	MCS2294-25	Connecting Link
2	MC1660300-1	Rudder Forward
2	MC1660300-2	Rudder Center
2	MC0510105-152	Rudder Aft
2	MC0510105-323	Tailwheel Steering
1	MC1613245-2	Parking Brake Cable
1	MC1660300-41	Deflector
4	MC0422280	Bellcrank Aileron Bushing

**188B, A188B 1972-1973**  
S/N 18800875 thru 18801374 & 967T thru 1374T  
Complete Cable Kit P/N CCKT188-07  
Complete Pulley Kit P/N PULL-KT-44\* or -45\* Note 1

Qty	P/N	Location
1	MC1660300-13	Flap Direct LH Bellcrank
1	MC1660300-12	Flap Direct RH Bellcrank
1	MC1660300-15	Flap Retract LH Bellcrank
1	MC1660300-14	Flap Retract RH Bellcrank
1	MC1660300-21	Flap Retract to Lever
1	MC1660300-20	Flap Direct to Lever

**Kit continues on next page**  
\* See pages 100-101 for Pulley Kit Components  
1 Partial model eligibility  
2 Included in both galvanized and stainless kits.  
7 Listed for reference only.



# Flight Control System

## Flight Control Cables - Cessna



Continued from previous page

Qty P/N	Location
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0510105-323	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC1660300-41	Deflector
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

Note 1: S/N 18800875 thru 18801348 USE PULL-KT-44  
S/N 18801349T thru 18801374T  
USE PULL-KT-44  
S/N 18801349 thru 18801374 USE PULL-KT-45

**1888B, A1888B 1974**

S/N 18801375 thru 18801402 & 1375T thru 1402T  
Complete Cable Kit P/N CCKT188-08  
Complete Pulley Kit P/N PULL-KT-45\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 MC1660300-21	Flap Retract to Lever
1 MC1660300-20	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0510105-323	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC1660300-42	Deflector W/Flashing Beacon
1 MC1660300-43	Deflector
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

**1888B, A1888B 1974-1975**

S/N 18801403 thru 18802348 & 1403T thru 2348T  
Complete Cable Kit P/N CCKT188-09  
Complete Pulley Kit P/N PULL-KT-46\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 MC1660300-21	Flap Retract to Lever
1 MC1660300-20	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link

Kit continues in next column

Continued from previous column

Qty P/N	Location
2 MC1660300-1	Rudder Forward
2 MC1660300-15	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0510105-323	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC1660300-42	Deflector (W/Flashing Beacon)
1 MC1660300-43	Deflector
2 MC1660300-44	Parking Brake
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

**A1888B 1976**

S/N 18802349 thru 18802745,  
18802349T thru 18802745T  
Complete Cable Kit P/N CCKT188-10  
Complete Pulley Kit P/N PULL-KT-46\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 MC1660300-21	Flap Retract to Lever
1 MC1660300-20	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0510105-323	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

**A1888B 1977-1978**

S/N 18802746 thru 18803296,  
18802746T thru 18803296T  
Complete Cable Kit P/N CCKT188-11  
Complete Pulley Kit P/N PULL-KT-46\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 1660300-47	Flap Retract to Lever
1 1660300-46	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0760135-106	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

**A1888B, T188C 1979**

S/N 18803297 thru 18803521,  
18803297T thru 18803521T,  
T18803297T thru T18803521T  
Complete Cable Kit P/N CCKT188-12  
Complete Pulley Kit P/N PULL-KT-46\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank

Kit continues in next column

Continued from previous column

Qty P/N	Location
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 1660300-47	Flap Retract to Lever
1 1660300-46	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0760135-106	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC9861000-1	Tailwheel Lock Control
1 MC1660300-48	Deflector
4 MC0422280	Bellcrank Aileron Bushing

**A1888B, T188C 1980-1983**

S/N 18803522 thru 18803856,  
18803522T thru 18803968T,  
T18803522T thru T18803968T  
Complete Cable Kit P/N CCKT188-13  
Complete Pulley Kit P/N PULL-KT-46\*

Qty P/N	Location
1 MC1660300-13	Flap Direct LH Bellcrank
1 MC1660300-12	Flap Direct RH Bellcrank
1 MC1660300-15	Flap Retract LH Bellcrank
1 MC1660300-14	Flap Retract RH Bellcrank
1 1660300-47	Flap Retract to Lever
1 1660300-46	Flap Direct to Lever
2 MC1660300-35	Aileron Dir to Torque Tube
2 MC1660300-9	Aileron Direct to Bellcrank
1 MC1660300-33	Aileron Carry Thru LH
1 MC1660300-38	Aileron Carry Thru RH
1 MC1660300-3	Elevator Down Forward
1 MC1660300-5	Elevator Up
1 MC1660300-4	Elevator Down Aft
1 MC1660300-6	Elevator Trim Fwd Upper
1 MC1660300-7	Elevator Trim Fwd Lower
1 MC0510105-187	Elevator Trim Aft Lower
1 MC0510105-198	Elevator Trim Aft Upper
1 MCS2295-25-70	Elevator Trim Chain Fwd
1 MCS2295P25-71	Elevator Trim Chain Aft
4 MCS2294-25	Connecting Link
2 MC1660300-1	Rudder Forward
2 MC1660300-2	Rudder Center
2 MC0510105-152	Rudder Aft
2 MC0760135-106	Tailwheel Steering
1 MC1613245-2	Parking Brake Cable
1 MC9861000-1	Tailwheel Lock Control
4 MC0422280	Bellcrank Aileron Bushing

**210-5 (205) 1963**

S/N 205-0001 thru 205-0050  
Complete Cable Kit P/N CCKT205-01G (Galvanized)  
Complete Cable Kit P/N CCKT205-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-47\*

Qty P/N	Galv SS	Location
1 MC1260505-1 or 101		Park Brake
1 MC1260417-1 or 2		Park Brake Cable & Tube
2 MC1260505-3 or 103		Aileron Direct
1 MC0510105-13 or 113		Aileron Carry Thru
1 MC1260505-18 or 118		Elevator Down
1 MC1260505-19 or 119		Elevator Up
1 MC1260505-2 or 102		Elevator Down Spring
1 MCS2295-25-185		Chain Elev Trim Fwd Low
1 MCS2295A25-111		Chain Elev Trim Fwd Up
1 MC1260505-16 or 116		Elev. Trim Forward LH
1 MC1260505-17 or 117		Elev. Trim Forward RH
1 MC1260505-8 or 108		Elevator Trim Aft LH
1 MC1260505-7 or 107		Elevator Trim Aft RH
1 MC0510105-93 or 193		Flap Retract
1 MC0510105-91 or 191		Flap Direct RH

Kit continues on next page

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.  
 7 Listed for reference only.



# Flight Control System Flight Control Cables - Cessna



Continued from previous page			
Qty	P/N	Galv SS	Location
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MCS2295P25-113	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
4	MC0422280	6	Bellcrank Aileron Bushing
<b>210-5 (205) 1, 210-5A (205A) 1963 1-1964</b>			
S/N 205-0051 thru 205-0577			
Complete Cable Kit P/N CCKT205-02G (Galvanized)			
Complete Cable Kit P/N CCKT205-02S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-47*			
Qty	P/N	Galv SS	Location
1	MC1260505-1 or 101	6	Park Brake
1	MC1260417-1 or 2	6	Park Brake Cable & Tube
2	MC1260505-3 or 103	6	Aileron Direct
1	MC0510105-13 or 113	6	Aileron Carry Thru
1	MC1260505-18 or 118	6	Elevator Down
1	MC1260505-19 or 119	6	Elevator Up
1	MC1260505-2 or 102	6	Elevator Down Spring
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MC1260505-16 or 116	6	Elevator Trim Fwd LH
1	MC1260505-21 or 121	6	Elevator Trim Fwd RH
1	MC1260505-8 or 108	6	Elevator Trim Aft LH
1	MC1260505-20 or 120	6	Elevator Trim Aft RH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct RH
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MCS2295P25-113	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
4	MC0422280	6	Bellcrank Aileron Bushing
<b>206, U206, A, B, TU206A, B 1964-1967</b>			
<b>P206, P206A, B, TP206A, B 1964-1967</b>			
S/N 206-0001 thru U206-0914,			
P206-0001 thru P206-0419			
Complete Cable Kit P/N CCKT206-01G (Galvanized)			
Complete Cable Kit P/N CCKT206-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-48*			
Qty	P/N	Galv SS	Location
1	MC1260417-1 or 2	6	Park Cable and Tube
1	MC1260505-1 or 101	6	Park Brake
1	MC1260505-29 or 129	6	Elevator Down Forward
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-28 or 128	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-16 or 116	6	Elevator Trim Fwd LH
1	MC1260505-21 or 121	6	Elevator Trim Fwd RH
1	MC1260505-8 or 108	6	Elevator Trim Aft LH
1	MC1260505-20 or 120	6	Elevator Trim Aft RH
2	MC1260505-25 or 125	6	Aileron Direct
2	MC1260505-26 or 126	6	Aileron Direct Outboard
1	MC1260505-23 or 123	6	Aileron Carry Thru LH
1	MC1260505-27 or 127	6	Aileron Carry Thru RH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct LH
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MCS2295P25-113	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
Available separately for aircraft with camera option			
1	MC1260105-9 or 109	6	Rudder Aft LH W/Camera
<b>U206C, D 1, TU206C, D 1 1968-1969</b>			
<b>P206C, D 1, TP206C, D 1 1968-1969</b>			
S/N U206-0915 thru U206-1345,			
P206-0420 thru P206-0583			
Complete Cable Kit P/N CCKT206-02G (Galvanized)			
Complete Cable Kit P/N CCKT206-02S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-02GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-02SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-49*			
Qty	P/N	Galv SS	Location
1	MC1260505-1 or 101	6	Park Brake
1	MC1260417-1 or 2	6	Park Cable and Tube
1	MC1260505-29 or 129	6	Elevator Down Forward
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-303 or 403	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-95 or 195	6	Elevator Trim Fwd LH
1	MC1260505-92 or 192	6	Elevator Trim Fwd RH
1	MC1260505-46 or 146	6	Elevator Trim Aft LH
1	MC1260505-91 or 191	6	Elevator Trim Aft RH
1	MC1260078-8 or 108	6	Aileron Yoke RH
1	MC1260078-7 or 107	6	Aileron Yoke LH
1	MC1260078-5 or 105	6	Aileron Yoke Primary
2	MC1260505-55 or 155	6	Aileron Direct Inboard
2	MC1260505-58 or 158	6	Aileron Direct Outboard
2	MC1260505-60 or 160	6	Aileron Carry Thru LH
1	MC1260505-54 or 154	6	Aileron Carry Thru RH
1	MC1260505-168 or 168	6	Elev. Trim Center LH
1	MC1260505-64 or 164	6	Elev. Trim Center RH
1	MC1260505-63 or 163	6	Elev. Trim Forward LH
1	MC1260505-69 or 169	6	Elev. Trim Aft LH
1	MC1260505-57 or 157	6	Elev. Trim Aft RH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct LH
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MCS2295P25-113	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
Available separately for aircraft with camera option			
1	MC1260105-9 or 109	6	Rudder Aft LH W/Camera
<b>U206E 1, TU206E 1 1971</b>			
S/N U20601668 thru U20601700			
Complete Cable Kit P/N CCKT206-04G (Galvanized)			
Complete Cable Kit P/N CCKT206-04S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-04GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-04SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-50*			
Qty	P/N	Galv SS	Location
1	MC1260505-97 or 197	6	Park Brake

Continued from previous column			
Qty	P/N	Galv SS	Location
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-53 or 153	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-16 or 116	6	Elev. Trim Forward LH
1	MC1260505-21 or 121	6	Elev. Trim Forward RH
1	MC1260505-46 or 146	6	Elevator Trim Aft LH
1	MC1260505-45 or 145	6	Elevator Trim Aft RH
1	MC1260078-8 or 108	6	Aileron Yoke RH
1	MC1260078-7 or 107	6	Aileron Yoke LH
1	MC1260078-5 or 105	6	Aileron Yoke Primary
2	MC1260505-55 or 155	6	Aileron Direct Inboard
2	MC1260505-58 or 158	6	Aileron Direct Outboard
2	MC1260505-60 or 160	6	Aileron Carry Thru LH
1	MC1260505-54 or 154	6	Aileron Carry Thru RH
1	MC1260505-168 or 168	6	Elev. Trim Center LH
1	MC1260505-64 or 164	6	Elev. Trim Center RH
1	MC1260505-63 or 163	6	Elev. Trim Forward LH
1	MC1260505-69 or 169	6	Elev. Trim Aft RH
1	MC1260505-57 or 157	6	Elev. Trim Aft LH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct LH
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MCS2295P25-113	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
Available separately for aircraft with camera option			
1	MC1260105-9 or 109	6	Rudder Aft LH W/Camera
<b>U206D 1, E 1, TU206D 1, E 1 1965-1971</b>			
<b>P206D 1, E, TP206D 1, E 1965-1971</b>			
S/N U206-1346 thru U20601667,			
P206-0584 thru P20600647			
Complete Cable Kit P/N CCKT206-03G (Galvanized)			
Complete Cable Kit P/N CCKT206-03S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-03GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-03SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-49*			
Qty	P/N	Galv SS	Location
1	MC1260505-1 or 101	6	Park Brake
1	MC1260417-1 or 2	6	Park Brake Cable & Tube
1	MC1260505-29 or 129	6	Elevator Down Forward
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-303 or 403	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-95 or 195	6	Elevator Trim Fwd LH
1	MC1260505-92 or 192	6	Elevator Trim Fwd RH
1	MC1260505-46 or 146	6	Elevator Trim Aft LH
1	MC1260505-91 or 191	6	Elevator Trim Aft RH
1	MC1260078-8 or 108	6	Aileron Yoke RH
1	MC1260078-7 or 107	6	Aileron Yoke LH
1	MC1260078-5 or 105	6	Aileron Yoke Primary
2	MC1260505-55 or 155	6	Aileron Direct Inboard
2	MC1260505-58 or 158	6	Aileron Direct Outboard
2	MC1260505-60 or 160	6	Aileron Carry Thru LH
1	MC1260505-54 or 154	6	Aileron Carry Thru RH
1	MC1260505-168 or 168	6	Elev. Trim Center LH
1	MC1260505-64 or 164	6	Elev. Trim Center RH
1	MC1260505-63 or 163	6	Elev. Trim Forward LH
1	MC1260505-69 or 169	6	Elev. Trim Aft LH
1	MC1260505-57 or 157	6	Elev. Trim Aft RH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct LH
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MCS2295-25-47	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
Available separately for aircraft with camera option			
1	MC1260105-9 or 109	6	Rudder Aft LH W/Camera
<b>U206E 1, TU206E 1 1971</b>			
S/N U20601668 thru U20601700			
Complete Cable Kit P/N CCKT206-04G (Galvanized)			
Complete Cable Kit P/N CCKT206-04S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-04GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-04SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-50*			
Qty	P/N	Galv SS	Location
1	MC1260505-97 or 197	6	Park Brake

Continued from previous column			
Qty	P/N	Galv SS	Location
1	MC1260417-1 or 2	6	Park Brake Cable & Tube
1	MC1260505-29 or 129	6	Elevator Down Forward
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-303 or 403	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-95 or 195	6	Elevator Trim Fwd LH
1	MC1260505-92 or 192	6	Elevator Trim Fwd RH
1	MC1260505-46 or 146	6	Elevator Trim Aft LH
1	MC1260505-91 or 191	6	Elevator Trim Aft RH
1	MC1260078-8 or 108	6	Aileron Yoke RH
1	MC1260078-7 or 107	6	Aileron Yoke LH
1	MC1260078-5 or 105	6	Aileron Yoke Primary
2	MC1260505-55 or 155	6	Aileron Direct Inboard
2	MC1260505-58 or 158	6	Aileron Direct Outboard
2	MC1260505-60 or 160	6	Aileron Carry Thru LH
1	MC1260505-54 or 154	6	Aileron Carry Thru RH
1	MC1260505-168 or 168	6	Elev. Trim Center LH
1	MC1260505-64 or 164	6	Elev. Trim Center RH
1	MC1260505-63 or 163	6	Elev. Trim Forward LH
1	MC1260505-69 or 169	6	Elev. Trim Aft LH
1	MC1260505-57 or 157	6	Elev. Trim Aft RH
1	MC0510105-93 or 193	6	Flap Retract
1	MC0510105-94 or 194	6	Flap Retract
1	MC0510105-91 or 191	6	Flap Direct LH
1	MC0510105-92 or 192	6	Flap Direct RH
1	MC0510105-203 or 303	6	Rudder Forward LH
1	MC0510105-204 or 304	6	Rudder Forward RH
1	MC1260505-12 or 112	6	Rudder Aft RH
1	MC1260505-13 or 113	6	Rudder Aft LH
1	MCS2295-25-47	6	Chain Elev Trim Actuator
6	MCS2294-25	6	Chain Connecting Link
Available separately for aircraft with camera option			
1	MC1260105-9 or 109	6	Rudder Aft LH W/Camera
<b>U206F 1, TU206F 1 1972</b>			
S/N U20601701 thru U20601748			
Complete Cable Kit P/N CCKT206-05G (Galvanized)			
Complete Cable Kit P/N CCKT206-05S (Stainless Steel)			
Complete Cable Kit P/N CCKT206-05GE (Galv. Elec. Trim)			
Complete Cable Kit P/N CCKT206-05SE (SS Electric Trim)			
Complete Pulley Kit P/N PULL-KT-51*			
Qty	P/N	Galv SS	Location
1	MC1260505-97 or 197	6	Park Brake
1	MC1260417-1 or 2	6	Park Brake Cable & Tube
1	MC1260505-29 or 129	6	Elevator Down Forward
1	MC1260505-30 or 130	6	Elevator Up Forward
1	MC1260505-303 or 403	6	Elevator Down Spring
1	MCS2295A25-111	6	Chain Elev Trim Fwd Up
1	MCS2295-25-185	6	Chain Elev Trim Fwd Low
1	MC1260505-95 or 195	6	Elevator Trim Fwd LH
1	MC1260505-98 or 198	6	Elevator Trim Fwd RH
1	MC1260505-46 or 146	6	Elevator Trim Aft LH
1	MC1260505-99 or 199	6	Elevator Trim Aft RH
1	MC1260078-8 or 108	6	Aileron Yoke RH
1	MC1260078-7 or 107	6	Aileron Yoke LH
1	MC1260078-5 or 105	6	Aileron Yoke Primary
2	MC1260505-55 or 155	6	Aileron Direct Inboard
2	MC1260505-58 or 158	6	Aileron Direct Outboard
2	MC1260505-60 or 160		

# Flight Control System Flight Control Cables - Cessna



**U206F, TU206F 1972-1973**  
S/N U20601749 thru U20601874  
Complete Cable Kit P/N CCKT206-06G (Galvanized)  
Complete Cable Kit P/N CCKT206-06S (Stainless Steel)  
Complete Cable Kit P/N CCKT206-06GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCKT206-06SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-51\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-29 or 129			Elevator Down Forward
1	MC1260505-30 or 130			Elevator Up Forward
1	MC1260505-303 or 403			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
2	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC1260505-168 or 168			Elev. Trim Center LH
1	MC1260505-64 or 164			Elev. Trim Center RH
1	MC1260505-63 or 163			Elev. Trim Forward LH
1	MC1260505-69 or 169			Elev. Trim Aft RH
1	MC1260505-57 or 157			Elev. Trim Aft LH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MCS2295-25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

**U206F, TU206F 1973**  
S/N U20601875 thru U20601957  
Complete Cable Kit P/N CCKT206-07G (Galvanized)  
Complete Cable Kit P/N CCKT206-07S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-52\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-29 or 129			Elevator Down Forward
1	MC1260505-30 or 130			Elevator Up Forward
1	MC1260505-303 or 403			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
2	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MCS2295-25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

**U206F, TU206F 1973**  
S/N U20601958 thru U20602199  
Complete Cable Kit P/N CCKT206-08G (Galvanized)  
Complete Cable Kit P/N CCKT206-08S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-52\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-29 or 129			Elevator Down Fwd

Kit continues in next column

Continued from previous column

Qty	P/N	Galv	SS	Location
1	MC1260505-30 or 130			Elevator Up Fwd
1	MC1260505-303 or 403			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-304 or 304			Elevator Trim Aft RH
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
2	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-91 or 191			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MCS2295-25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

**U206F 1974**  
S/N U20602200 thru U20602579  
Complete Cable Kit P/N CCKT206-09G (Galvanized)  
Complete Cable Kit P/N CCKT206-09S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-53\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-29 or 129			Elevator Down Fwd
1	MC1260505-30 or 130			Elevator Up Forward
1	MC1260505-303 or 403			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MCS2295-25-47			Chain Elev Trim Actuator
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-5 or 105			Aileron Yoke Primary
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-8 or 108			Aileron Yoke RH
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

**U206F, G, TU206F, G 1975-1980**  
S/N U20602580 thru U20605919  
Complete Cable Kit P/N CCKT206-10G (Galvanized)  
Complete Cable Kit P/N CCKT206-10S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-54\* or -55\* Note 1

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
2	MC1260505-306 or 406			Elevator Control
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MCS2295-25-47			Chain Elev Trim Actuator
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-5 or 105			Aileron Yoke Primary
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-8 or 108			Aileron Yoke RH
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH

Kit continues in next column

Continued from previous column

Qty	P/N	Galv	SS	Location
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

Note 1:  
S/N U20602580 thru U20603798 USE PULL-KT-54  
S/N U20603799 thru U20605919 USE PULL-KT-55

**U206G, TU206G 1981**  
S/N U20605920 thru U20606003  
Complete Cable Kit P/N CCKT206-11G (Galvanized)  
Complete Cable Kit P/N CCKT206-11S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-55\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
2	MC1260505-306 or 406			Elevator Control
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MCS2295-25-47			Chain Elev Trim Actuator
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-5 or 105			Aileron Yoke Primary
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-8 or 108			Aileron Yoke RH
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
6	MCS2294-25			Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118 Rudder Aft LH W/Cam.

**U206G, TU206G 1981**  
S/N U20606004 thru U20606439  
Complete Cable Kit P/N CCKT206-12G (Galvanized)  
Complete Cable Kit P/N CCKT206-12S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-55\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
2	MC1260505-306 or 406			Elevator Control
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295-25-185			Chain Elev Trim Fwd Low
1	MCS2295-25-47			Chain Elev Trim Actuator
1	MC1260505-95 or 195			Elevator Trim Fwd LH
1	MC1260505-98 or 198			Elevator Trim Fwd RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-99 or 199			Elevator Trim Aft RH
1	MC1260078-5 or 105			Aileron Yoke Primary
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-8 or 108			Aileron Yoke RH
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC0510105-93 or 193			Flap Retract
1	MC0510105-94 or 194			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-203 or 303			Rudder Forward LH
1	MC0510105-204 or 304			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-319 or 419			Rudder Aft LH

Kit continues on next page

- \* See pages 100-101 for Pulley Kit Components
- 1 Partial model eligibility
- 2 Included in both galvanized and stainless kits.
- 3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.
- 4 Included in kits for manual trim aircraft only.
- 5 Included in kits for electric trim aircraft only.



# Flight Control System

## Flight Control Cables - Cessna



**Continued from previous page**  
Qty P/N Galv SS Location  
6 MCS2294-25 Chain Connecting Link  
Available separately for aircraft with camera option  
1 MC1260105-118<sup>2</sup> Rudder Aft LH W/Cam.

**U206G, TU206G 1982-1986**  
S/N U20606440 thru U20607020  
Complete Cable Kit P/N CCKT206-13G (Galvanized)  
Complete Cable Kit P/N CCKT206-13S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-55\*

Qty P/N	Galv	SS	Location
1			MC1260505-317 or 417 Park Brake
1			MC1260417-6 or 7 Park Brake Cable & Tube
2			MC1260505-306 or 406 Elevator Control
1			MCS2295A25-111 Chain Elev Trim Fwd Up
1			MCS2295-25-185 Chain Elev Trim Fwd Low
1			MCS2295-25-47 Chain Elev Trim Actuator
1			MC1260505-95 or 195 Elevator Trim Fwd LH
1			MC1260505-98 or 198 Elevator Trim Fwd RH
1			MC1260505-46 or 146 Elevator Trim Aft LH
1			MC1260505-99 or 199 Elevator Trim Aft RH
1			MC1260078-12 or 112 Aileron Yoke RH
1			MC1260078-11 or 111 Aileron Yoke LH
1			MC1260078-10 or 110 Aileron Yoke Primary
2			MC1260505-320 or 420 Aileron Direct
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
1			MC1260505-54 or 154 Aileron Carry Thru RH
1			MC0510105-93 or 193 <sup>6</sup> Flap Retract
1			MC0510105-94 or 194 <sup>6</sup> Flap Retract
1			MC0510105-259 or 359 Flap Direct LH
1			MC0510105-92 or 192 Flap Direct RH
1			MC0510105-203 or 303 Rudder Forward LH
1			MC0510105-204 or 304 Rudder Forward RH
1			MC1260505-12 or 112 Rudder Aft RH
1			MC1260505-319 or 419 Rudder Aft LH
6			MCS2294-25 Chain Connecting Link

Available separately for aircraft with camera option  
1 MC1260105-118<sup>2</sup> Rudder Aft LH W/Cam.

**206H, T206H 1998 & On**  
S/N 20608001 and T20608001 & On  
Complete Cable Kit P/N CCKT206H-01G (Galvanized)  
Complete Cable Kit P/N CCKT206H-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-56\*

Qty P/N	Galv	SS	Location
1			MC1260505-97 <sup>2</sup> Park Brake
1			MC1260417-6 or 7 Park Brake Cable & Tube
2			MC1260505-306 or 406 Elevator Control
1			MC1260505-46 or 146 Elevator Trim Aft LH
1			MC1260505-95 or 195 Elevator Trim Fwd LH
1			MC1260505-98 or 198 Elevator Trim Fwd RH
1			MC1260505-99 or 199 Elevator Trim Aft RH
1			MC1260078-10 or 110 Aileron Yoke Primary
1			MC1260078-11 or 111 Aileron Yoke LH
1			MC1260078-12 or 112 Aileron Yoke RH
1			MC1260505-54 or 154 Aileron Carry Thru RH
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
2			MC1260505-320 or 420 Aileron Direct
1			MC1260505-12 or 112 Rudder Aft RH
1			MC1260505-319 or 419 Rudder Aft LH
1			MC0510105-203 or 303 Rudder Forward LH
1			MC0510105-204 or 304 Rudder Forward RH
1			MC0510105-93 or 193 <sup>6</sup> Flap Retract
1			MC0510105-94 or 194 <sup>6</sup> Flap Retract
1			MC0510105-92 or 192 Flap Direct RH
1			MC0510105-259 or 359 Flap Direct LH
1			MCS2295A25-111 Chain Elev Trim Fwd Up
1			MCS2295P25-185 Chain Elev Trim Fwd Low
1			MCS2295P25-47 Chain Elev Trim Actuator
6			MCS2294-25 Chain Connecting Link

**207H, T207H 1969H**  
S/N 20700001 thru 20700101  
Complete Cable Kit P/N CCKT207-01G (Galvanized)  
Complete Cable Kit P/N CCKT207-01S (Stainless Steel)  
Complete Cable Kit P/N CCKT207-01GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCKT207-01SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-57\*

Qty P/N	Galv	SS	Location
1			MC1260505-1 or 101 Park Brake
1			MC1260417-1 or 2 Park Brake Cable & Tube
1			MC1260078-8 or 108 Aileron Yoke RH
1			MC1260078-7 or 107 Aileron Yoke LH
1			MC1260078-5 or 105 Aileron Yoke Primary
2			MC1260505-55 or 155 Aileron Direct Inboard
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
1			MC1260505-54 or 154 Aileron Carry Thru RH

Kit continues in next column

**Continued from previous column**  
Qty P/N Galv SS Location  
1 MC1260505-78 or 178 Elevator Down Aft  
1 MC1260505-75 or 175 Elevator Up Aft  
1 MC1260505-129<sup>2</sup> Elevator Down Fwd  
1 MC1260505-130<sup>2</sup> Elevator Up Fwd  
1 MC1260505-303 or 403 Elevator Dwn Spring  
1 MCS2295A25-111 Chain Elev Trim Fwd Up  
1 MCS2295-25-43 Chain Elev Trim Fwd Low  
1 MCS2295P25-185 Chain Elev Trim Actuator  
6 MCS2294-25 Chain Connecting Link  
1 MC1260505-77 or 177 Elev. Trim Forward LH<sup>8</sup>  
1 MC1260505-76 or 176 Elev. Trim Forward RH<sup>8</sup>  
1 MC1260505-46 or 146 Elevator Trim Aft LH<sup>8</sup>  
1 MC1260505-45 or 145 Elevator Trim Aft RH<sup>8</sup>  
1 MC0510105-93 or 193<sup>6</sup> Flap Retract  
1 MC0510105-94 or 194<sup>6</sup> Flap Retract  
1 MC0510105-259 or 359 Flap Direct LH  
1 MC0510105-92 or 192 Flap Direct RH  
1 MC0510105-229 or 329 Rudder Forward LH  
1 MC0510105-230 or 330 Rudder Forward RH  
1 MC1260505-13 or 113 Rudder Aft LH  
1 MC1260505-12 or 112 Rudder Aft RH  
1 MC1260204-3<sup>2</sup> Elec Elev Trim LH<sup>9</sup>  
1 MC1260505-90 or 190 Elec Elev Trim Fwd RH<sup>9</sup>  
1 MC1260505-85 or 185 Elec Elev Trim Fwd LH<sup>9</sup>  
1 MC1260505-57 or 157 Elec Trim Aft RH<sup>9</sup>  
1 MC1260505-69 or 169 Elec Trim Aft LH<sup>9</sup>

Available separately for aircraft with camera option  
1 MC1260505-83 or 183 Rudder RH W/Camera  
1 MC1260505-84 or 184 Rudder LH W/Camera  
1 MC1260505-89 or 189 Elevator Up W/Camera  
1 MC1260505-88 or 188 Elevator Down W/Camera  
1 MC1260505-79 or 179 Elevator Trim RH W/Cam.  
1 MC1260505-80 or 180 Elevator Trim LH W/Cam.

**207H, T207H 1969H**  
S/N 20700102 thru 20700204  
Complete Cable Kit P/N CCKT207-02G (Galvanized)  
Complete Cable Kit P/N CCKT207-02S (Stainless Steel)  
Complete Cable Kit P/N CCKT207-02GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCKT207-02SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-57\*

Qty P/N	Galv	SS	Location
1			MC1260505-1 or 101 Park Brake
1			MC1260417-1 or 2 Park Brake Cable & Tube
1			MC1260078-8 or 108 Aileron Yoke RH
1			MC1260078-7 or 107 Aileron Yoke LH
1			MC1260078-5 or 105 Aileron Yoke Primary
2			MC1260505-55 or 155 Aileron Direct Inboard
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
1			MC1260505-54 or 154 Aileron Carry Thru RH
1			MC1260505-78 or 178 Elevator Down
1			MC1260505-75 or 175 Elevator Up
1			MC1260505-129 <sup>2</sup> Elevator Down Fwd
1			MC1260505-130 <sup>2</sup> Elevator Up Fwd
1			MC1260505-303 or 403 Elevator Down Spring
1			MCS2295A25-111 Chain Elev Trim Fwd Up
1			MCS2295P25-185 Chain Elev Trim Fwd Low
1			MCS2295P25-47 Chain Elev Trim Actuator
6			MCS2294-25 Chain Connecting Link
1			MC1260505-94 or 194 Elev. Trim Forward LH <sup>8</sup>
1			MC1260505-93 or 193 Elev. Trim Forward RH <sup>8</sup>
1			MC1260505-46 or 146 Elevator Trim Aft LH <sup>8</sup>
1			MC1260505-91 or 191 Elevator Trim Aft RH <sup>8</sup>
1			MC0510105-93 or 193 <sup>6</sup> Flap Retract
1			MC0510105-94 or 194 <sup>6</sup> Flap Retract
1			MC0510105-259 or 359 Flap Direct LH
1			MC0510105-92 or 192 Flap Direct RH
1			MC0510105-229 or 329 Rudder Forward LH
1			MC0510105-230 or 330 Rudder Forward RH
1			MC1260505-13 or 113 Rudder Aft LH
1			MC1260505-12 or 112 Rudder Aft RH
1			MC1260204-3 <sup>2</sup> Elec Trim LH <sup>9</sup>
1			MC1260505-90 or 190 Elec Trim Forward RH <sup>9</sup>
1			MC1260505-85 or 185 Elec Trim Forward LH <sup>9</sup>
1			MC1260505-57 or 157 Elec Trim Aft RH <sup>9</sup>
1			MC1260505-69 or 169 Elec Trim Aft LH <sup>9</sup>

Available separately for aircraft with camera option  
1 MC1260505-83 or 183 Rudder RH W/Camera  
1 MC1260505-84 or 184 Rudder LH W/Camera  
1 MC1260505-89 or 189 Elevator Up W/Camera  
1 MC1260505-88 or 188 Elevator Down W/Camera  
1 MC1260505-79 or 179 Elevator Trim RH W/Cam.  
1 MC1260505-80 or 180 Elevator Trim LH W/Cam.

**207H, T207H 1969H-1972H**  
S/N 20700205 thru 20700207  
Complete Cable Kit P/N CCKT207-03G (Galvanized)  
Complete Cable Kit P/N CCKT207-03S (Stainless Steel)  
Complete Cable Kit P/N CCKT207-03GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCKT207-03SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-58\*

Qty P/N	Galv	SS	Location
1			MC1260505-97 or 197 Park Brake
1			MC1260417-1 or 2 Park Brake Cable & Tube
1			MC1260078-8 or 108 Aileron Yoke RH
1			MC1260078-7 or 107 Aileron Yoke LH
1			MC1260078-5 or 105 Aileron Yoke Primary
2			MC1260505-55 or 155 Aileron Direct Inboard
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
1			MC1260505-54 or 154 Aileron Carry Thru RH
1			MC1260505-78 or 178 Elevator Down Aft
1			MC1260505-75 or 175 Elevator Up Aft
1			MC1260505-129 <sup>2</sup> Elevator Down Fwd
1			MC1260505-130 <sup>2</sup> Elevator Up Fwd
1			MC1260505-303 or 403 Elevator Down Spring
1			MCS2295A25-111 Chain Elev Trim Fwd Up
1			MCS2295P25-185 Chain Elev Trim Fwd Low
1			MCS2295P25-47 Chain Elev Trim Actuator
6			MCS2294-25 Chain Connecting Link
1			MC1260505-94 or 194 Elev. Trim Forward LH <sup>8</sup>
1			MC1260505-93 or 193 Elev. Trim Forward RH <sup>8</sup>
1			MC1260505-46 or 146 Elevator Trim Aft LH <sup>8</sup>
1			MC1260505-91 or 191 Elevator Trim Aft RH <sup>8</sup>
1			MC0510105-93 or 193 <sup>6</sup> Flap Retract
1			MC0510105-94 or 194 <sup>6</sup> Flap Retract
1			MC0510105-259 or 359 Flap Direct LH
1			MC0510105-92 or 192 Flap Direct RH
1			MC0510105-229 or 329 Rudder Forward LH
1			MC0510105-230 or 330 Rudder Forward RH
1			MC1260505-13 or 113 Rudder Aft LH
1			MC1260505-12 or 112 Rudder Aft RH
1			MC1260204-3 <sup>2</sup> Electric Trim LH <sup>9</sup>
1			MC1260505-90 or 190 Elec. Trim Fwd RH <sup>9</sup>
1			MC1260505-85 or 185 Elec. Trim Forward LH <sup>9</sup>
1			MC1260505-57 or 157 Electric Trim Aft RH <sup>9</sup>
1			MC1260505-69 or 169 Electric Trim Aft LH <sup>9</sup>

Available separately for aircraft with camera option  
1 MC1260505-83 or 183 Rudder RH W/Camera  
1 MC1260505-84 or 184 Rudder LH W/Camera  
1 MC1260505-89 or 189 Elevator Up W/Camera  
1 MC1260505-88 or 188 Elevator Down W/Camera  
1 MC1260505-79 or 179 Elevator Trim RH W/Cam.  
1 MC1260505-80 or 180 Elevator Trim LH W/Cam.

**207H, T207H 1972H-1973**  
S/N 20700208 thru 20700227  
Complete Cable Kit P/N CCKT207-04G (Galvanized)  
Complete Cable Kit P/N CCKT207-04S (Stainless Steel)  
Complete Cable Kit P/N CCKT207-04GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCKT207-04SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-58\*

Qty P/N	Galv	SS	Location
1			MC1260505-97 or 197 Park Brake
1			MC1260417-6 or 7 Park Brake Cable & Tube
1			MC1260078-8 or 108 Aileron Yoke RH
1			MC1260078-7 or 107 Aileron Yoke LH
1			MC1260078-5 or 105 Aileron Yoke Primary
2			MC1260505-55 or 155 Aileron Direct Inboard
2			MC1260505-58 or 158 Aileron Direct Outboard
1			MC1260505-60 or 160 Aileron Carry Thru LH
1			MC1260505-54 or 154 Aileron Carry Thru RH
1			MC1260505-78 or 178 Elevator Down Aft
1			MC1260505-75 or 175 Elevator Up Aft
1			MC1260505-129 <sup>2</sup> Elevator Down Fwd
1			MC1260505-130 <sup>2</sup> Elevator Up Fwd
1			MC1260505-303 or 403 Elevator Down Spring
1			MCS2295A25-111 Chain Elev Trim Fwd Up
1			MCS2295P25-185 Chain Elev Trim Fwd Low
1			MCS2295P25-47 Chain Elev Trim Actuator
6			MCS2294-25 Chain Connecting Link
1			MC1260505-94 or 194 Elev. Trim Forward LH <sup>8</sup>
1			MC1260505-93 or 193 Elev. Trim Forward RH <sup>8</sup>
1			MC1260505-46 or 146 Elevator Trim Aft LH <sup>8</sup>
1			MC1260505-91 or 191 Elevator Trim Aft RH <sup>8</sup>
1			MC0510105-93 or 193 <sup>6</sup> Flap Retract
1			MC0510105-94 or 194 <sup>6</sup> Flap Retract

Kit continues on next page  
\* See pages 100-101 for Pulley Kit Components  
1 Partial model eligibility  
2 Included in both galvanized and stainless kits.  
6 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.  
8 Included in kits for manual trim aircraft only.  
9 Included in kits for electric trim aircraft only.





# Flight Control System

## Flight Control Cables - Cessna



**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
1	MC1260204-3 <sup>2</sup>			Electric Trim LH <sup>9</sup>
1	MC1260505-90 or 190			Elec. Trim Fwd RH <sup>9</sup>
1	MC1260505-85 or 185			Elec. Trim Forward LH <sup>9</sup>
1	MC1260505-57 or 157			Electric Trim Aft RH <sup>9</sup>
1	MC1260505-69 or 169			Electric Trim Aft LH <sup>9</sup>

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
1	MC1260505-84 or 184			Rudder LH W/Camera
1	MC1260505-89 or 189			Elevator Up W/Camera
1	MC1260505-88 or 188			Elevator Down W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

**207, T207 1974**  
S/N 20700228 thru 20700267  
Complete Cable Kit P/N CCKT207-05G (Galvanized)  
Complete Cable Kit P/N CCKT207-05S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-59\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
1	MC1260505-78 or 178			Elevator Down Aft
1	MC1260505-75 or 175			Elevator Up Aft
1	MC1260505-129 or 129			Elevator Down Fwd
1	MC1260505-130 or 130			Elevator Up Fwd
1	MC1260505-303 or 403			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
1	MC1260505-84 or 184			Rudder LH W/Camera
1	MC1260505-89 or 189			Elevator Up W/Camera
1	MC1260505-88 or 188			Elevator Down W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

**207, 207A<sup>1</sup>, T207, T207A<sup>1</sup> 1975-1980<sup>1</sup>**  
S/N 20700268 thru 20700646  
Complete Cable Kit P/N CCKT207-06G (Galvanized)  
Complete Cable Kit P/N CCKT207-06S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-60\* or -61\* Note 1

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
2	MC1260505-307 or 407			Elevator
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
1	MC1260505-84 or 184			Rudder LH W/Camera
2	MC1260505-310 or 410			Elevator W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

Note 1 S/N 20700268 thru 20700390 USE PULL-KT-60  
S/N 20700391 thru 20700646 USE PULL-KT-61

**207A<sup>1</sup>, T207A 1980-1981<sup>1</sup>**  
S/N 20700647 thru 20600672  
Complete Cable Kit P/N CCKT207-07G (Galvanized)  
Complete Cable Kit P/N CCKT207-07S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-61\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
2	MC1260505-307 or 407			Elevator
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
1	MC1260505-84 or 184			Rudder LH W/Camera
2	MC1260505-310 or 410			Elevator W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

**207A<sup>1</sup>, T207A 1981<sup>1</sup>**  
S/N 20700673 thru 20700729  
Complete Cable Kit P/N CCKT207-08G (Galvanized)  
Complete Cable Kit P/N CCKT207-08S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-61\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
2	MC1260505-307 or 407			Elevator
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-319 or 419			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
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**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC1260505-84 or 184			Rudder LH W/Camera
2	MC1260505-310 or 410			Elevator W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

**207A<sup>1</sup>, T207A 1982-1984**  
S/N 20700730 thru 20700788  
Complete Cable Kit P/N CCKT207-09G (Galvanized)  
Complete Cable Kit P/N CCKT207-09S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-61\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-320 or 420			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
2	MC1260505-307 or 407			Elevator
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-319 or 419			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

1	MC1260505-83 or 183			Rudder RH W/Camera
1	MC1260505-84 or 184			Rudder LH W/Camera
2	MC1260505-310 or 410			Elevator W/Camera
1	MC1260505-79 or 179			Elevator Trim RH W/Cam.
1	MC1260505-80 or 180			Elevator Trim LH W/Cam.

**207A<sup>1</sup>, T207A 1985-1986<sup>1</sup>**  
S/N 20700790 thru 20700846  
Complete Cable Kit P/N CCKT207-10G (Galvanized)  
Complete Cable Kit P/N CCKT207-10S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-61\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Primary
2	MC1260505-55 or 155			Aileron Direct Inboard
2	MC1260505-58 or 158			Aileron Direct Outboard
1	MC1260505-60 or 160			Aileron Carry Thru LH
1	MC1260505-54 or 154			Aileron Carry Thru RH
2	MC1260505-307 or 407			Elevator
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-185			Chain Elev Trim Fwd Low
1	MCS2295P25-47			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link
1	MC1260505-94 or 194			Elevator Trim Forward LH
1	MC1260505-93 or 193			Elevator Trim Forward RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MC1260505-91 or 191			Elevator Trim Aft RH
1	MC0510105-93 or 193 <sup>6</sup>			Flap Retract
1	MC0510105-94 or 194 <sup>6</sup>			Flap Retract
1	MC0510105-259 or 359			Flap Direct LH
1	MC0510105-92 or 192			Flap Direct RH
1	MC0510105-229 or 329			Rudder Forward LH
1	MC0510105-230 or 330			Rudder Forward RH
1	MC1260505-319 or 419			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH

*Available separately for aircraft with camera option*

# Flight Control System

## Flight Control Cables - Cessna



208		
S/N 20800001 thru 20899999		
Qty	P/N	Location
1	MC2660001-100	Elevator
1	MC2660001-101	Elevator
1	MC2660001-102	Elevator
1	MC2660001-103	Elevator
1	MC2660001-104	Rudder
1	MC2660001-106	Rudder
1	MC2660001-107	Rudder
1	MC2660001-108	Rudder
1	MC2660001-109	Elevator Trim
1	MC2660001-110	Elevator Trim
1	MC2660001-112	Elevator Trim
2	MC2660001-114	Aileron
1	MC2660001-118	Aileron LH
1	MC2660001-119	Aileron RH
4	MC2660001-122	Aileron
1	MC2660001-123	Control Column Intercnct
1	MC2660001-124	Control Column Intercnct
1	MC2660001-125	Control Column Intercnct
1	MC2660001-126	Control Column Intercnct
1	MC2660001-155	Elevator Trim
1	MC2660001-156	Elevator Trim
2	MC2660001-157	Aileron
1	MC2660029-13 Note 1	Aileron Trim
1	MC2660029-15 Note 1	Aileron Trim
2	MC2660029-4	Aileron Trim
1	MC9864054-9	Flap Indicator
1	MCS2295-25-101	Chain Elevator Trim Note 2
1	MCS2295-25-107	Chain Pitch Trim Servo Note 3
1	MCS2295-25-247	Chain Elevator Trim
1	MCS2295-25-35	Chain Aileron Trim
1	MCS2295-25-434	Chain Aileron Trim
2	MCS2295-25-87	Chain Elevator Trim
24	MCS2294-25	Chain Connecting Link

Note 1: S/N 20800082 thru 20899999  
 Note 2: When equipped with electric trim  
 Note 3: S/N 20800500 thru 20899999  
 Note 4: When equipped with pitch trim servo

208B		
S/N 208B0001 thru 208B9999		
Qty	P/N	Location
1	MC2660001-100	Elevator
1	MC2660001-102	Elevator
1	MC2660001-104 Note 1	Rudder
2	MC2660001-105	Flaps
1	MC2660001-107	Rudder
1	MC2660001-109	Elevator Trim
1	MC2660001-110	Elevator Trim
1	MC2660001-112	Elevator Trim
2	MC2660001-114	Aileron
4	MC2660001-122	Aileron
1	MC2660001-123	Control Column Intercnct
1	MC2660001-124	Control Column Intercnct
1	MC2660001-125	Control Column Intercnct
1	MC2660001-126	Control Column Intercnct
1	MC2660001-147	Elevator
1	MC2660001-148	Rudder
1	MC2660001-149	Elevator Trim
1	MC2660001-150	Elevator Trim
1	MC2660001-151	Aileron
1	MC2660001-152	Aileron
1	MC2660001-153	Elevator
1	MC2660001-154	Rudder
2	MC2660001-157	Aileron
2	MC2660029-11	Aileron Trim
1	MC2660029-13	Aileron Trim
1	MC2660029-15	Aileron Trim
1	MC9864054-7	Flap Indicator
1	MCS2295-25-101	Chain Elevator Trim Note 2
1	MCS2295-25-107	Chain Pitch Trim Servo Note 3
1	MCS2295-25-247	Chain Elevator Trim
1	MCS2295-25-35	Chain Aileron Trim
1	MCS2295-25-43	Chain Aileron Trim
2	MCS2295-25-87	Chain Elevator Trim
24	MCS2294-25	Chain Connecting Link

Note 1: S/N 208B0001 thru 208B2012, 208B2036 and 208B2048 thru 208B9999  
 Note 2: When equipped with electric trim  
 Note 3: S/N 208B2000 thru 20899999  
 Note 4: When equipped with pitch trim servo

210, 210A 1960-1961			
S/N 57001 thru 21057840			
Complete Cable Kit P/N CCKT210-01G (Galvanized)			
Complete Cable Kit P/N CCKT210-01S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-62*			
Qty	P/N	Galv	SS
1	MC1260105-13 or 113		
4	MC1260105-12		
2	MC1260105-3 or 103		
1	MC0510105-13 or 113		
1	MC1260105-5 or 105		
1	MC1260105-6 or 106		
1	MC1260105-12 or 112		
1	MC1260105-4 or 104		
1	MC1260105-14 or 114		
1	MC1260105-15 or 115		
1	MC1260105-16 or 116		
1	MCS2295P25-321		
1	MCS2295P25-113		
4	MCS2294-25		
2	MC1260105-10 or 110		
2	MC1260105-11 or 111		
1	MC1260105-8 or 108		
1	MC1260105-9 or 109		
1	MC1260105-17 or 117		
1	MC1260105-7 or 107		
4	MC0422280		

Location
Park Brake
Aileron Control Tee
Aileron Direct
Aileron Carry Thru
Elevator Up
Elevator Down
Elevator Down Spring
Elevator Trim Forward LH
Elevator Trim Aft LH
Elevator Trim Forward RH
Elevator Trim Aft RH
Chain Elevator Trim Fwd
Chain Elevator Trim Aft
Chain Connecting Link
Flap
Flap
Rudder RH Fwd
Rudder Aft LH
Rudder Aft RH
Rudder LH Fwd
Bellcrank Aileron Bushing

210B 1962			
S/N 21057841 thru 21058085			
Complete Cable Kit P/N CCKT210-01G (Galvanized)			
Complete Cable Kit P/N CCKT210-02S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-63*			
Qty	P/N	Galv	SS
1	MC1260505-12		
1	MC1260417-1 or 2		
2	MC1260505-3 or 103		
1	MC0510105-13 or 113		
1	MC1260105-9 or 109		
1	MC1260505-10 or 110		
1	MC1260505-2 or 102		
1	MCS2295A25-111		
1	MCS2295P25-155		
1	MC1260505-5 or 105		
1	MC1260505-6 or 106		
1	MC1260505-7 or 107		
1	MC1260505-8 or 108		
1	MCS2295P25-113		
6	MCS2294-25		
2	MC1260505-14 or 114		
2	MC1260505-4 or 104		
1	MC1260505-15 or 115		
1	MC1260505-11 or 111		
1	MC1260505-13 or 113		
1	MC1260505-12 or 112		
4	MC0422280		

Location
Park Brake
Park Brake Cable & Tube
Aileron Direct
Aileron Carry Thru
Elevator Down
Elevator Up
Elevator Down Spring
Chain Elev Trim Fwd Low
Chain Elev Trim Fwd Up
Elevator Trim Forward RH
Elevator Trim Forward LH
Elevator Trim Aft RH
Elevator Trim Aft LH
Chain Elev Trim Actuator
Chain Connecting Link
Flap
Flap
Rudder Forward LH
Rudder Forward RH
Rudder Aft LH
Rudder Aft RH
Bellcrank Aileron Bushing

210C 1963			
S/N 21058086 thru 21058220			
Complete Cable Kit P/N CCKT210-03G (Galvanized)			
Complete Cable Kit P/N CCKT210-03S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-63*			
Qty	P/N	Galv	SS
1	MC1260505-12		
1	MC1260417-1 or 2		
2	MC1260505-3 or 103		
1	MC0510105-13 or 113		
1	MC1260105-9 or 109		
1	MC1260505-10 or 110		
1	MC1260505-2 or 102		
1	MCS2295A25-111		
1	MCS2295P25-155		
1	MC1260505-22 or 122		
1	MC1260505-6 or 106		
1	MC1260505-20 or 120		
1	MC1260505-8 or 108		
1	MCS2295P25-113		
2	MC1260505-14 or 114		
2	MC1260505-4 or 104		
1	MC1260505-15 or 115		
1	MC1260505-11 or 111		
1	MC1260505-13 or 113		
1	MC1260505-12 or 112		
6	MCS2294-25		
4	MC0422280		

Location
Park Brake
Park Brake Cable & Tube
Aileron Direct
Aileron Carry Thru
Elevator Down
Elevator Up
Elevator Down Spring
Chain Elev Trim Fwd Low
Chain Elev Trim Fwd Up
Elevator Trim Forward RH
Elevator Trim Forward LH
Elevator Trim Aft RH
Elevator Trim Aft LH
Chain Elev Trim Actuator
Flap
Flap
Rudder Forward LH
Rudder Forward RH
Rudder Aft LH
Rudder Aft RH
Chain Connecting Link
Bellcrank Aileron Bushing

210D,E,F, T210F 1964-1966			
S/N 21058221 thru 21058818,			
T210-0001 thru T210-0197			
Complete Cable Kit P/N CCKT210-04G (Galvanized)			
Complete Cable Kit P/N CCKT210-04S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-64*			
Qty	P/N	Galv	SS
1	MC1260505-12		
1	MC1260417-1 or 2		
2	MC1260505-25 or 125		
2	MC1260505-26 or 126		
1	MC1260505-23 or 123		
1	MC1260505-27 or 127		
1	MC1260505-32 or 132		
1	MC1260505-33 or 133		
1	MC1260505-31 or 131		
1	MCS2295A25-111		
1	MCS2295P25-155		
1	MC1260505-22 or 122		
1	MC1260505-6 or 106		
1	MC1260505-20 or 120		
1	MC1260505-8 or 108		
1	MCS2295P25-113		
1	MC0510105-93 or 193		
1	MC0510105-94 or 194		
1	MC0510105-91 or 191		
1	MC0510105-92 or 192		
1	MC1260505-15 or 115		
1	MC1260505-11 or 111		
1	MC1260505-13 or 113		
1	MC1260505-12 or 112		
6	MCS2294-25		

Location
Park Brake
Park Brake Cable & Tube
Aileron Direct Inboard
Aileron Direct Outboard
Aileron Carry Thru LH
Aileron Carry Thru RH
Elevator Down
Elevator Up
Elevator Down Spring
Chain Elev Trim Fwd Low
Chain Elev Trim Fwd Up
Elevator Trim Forward RH
Elevator Trim Forward LH
Elevator Trim Aft RH
Elevator Trim Aft LH
Chain Elev Trim Actuator
Flap Retract
Flap Retract
Flap Direct LH
Flap Direct RH
Rudder Forward LH
Rudder Forward RH
Rudder Aft LH
Rudder Aft RH
Chain Connecting Link

210G, T210G 1967			
S/N 21058819 thru 21058829,			
T210-0198 thru T210-0240			
Complete Cable Kit P/N CCKT210-05G (Galvanized)			
Complete Cable Kit P/N CCKT210-05S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-65*			
Qty	P/N	Galv	SS
1	MC1260505-1 or 101		
1	MC1260417-1 or 2		
1	MC1260078-3 or 103		
1	MC1260078-2 or 102		
1	MC120905-3		
2	MC1260078-4 or 104		
2	MC1260505-40 or 140		
1	MC1260505-38 or 138		
1	MC1260505-39 or 139		
1	MC1260505-32 or 132		
1	MC1260505-33 or 133		
1	MCS2295A25-111		
1	MCS2295P25-159		
1	MC1260505-22 or 122		
1	MC1260505-35 or 135		
1	MC1260505-45 or 145		
1	MC1260505-46 or 146		
1	MCS2295-25-43		
1	MC1260505-49 or 149		
1	MC1260505-51 or 151		
2	MC1260505-47 or 147		
2	MC1260505-48 or 148		
1	MC1260505-50 or 150		
1	MC1260505-52 or 152		
1	MC1260505-15 or 115		
1	MC1260505-11 or 111		
1	MC1260505-13 or 113		
1	MC1260505-12 or 112		
6	MCS2294-25		

Location
Park Brake
Park Brake Cable & Tube
Aileron Yoke RH
Aileron Yoke LH
Aileron Yoke Carry Thru
Aileron Direct
Aileron Direct
Aileron Return LH
Aileron Return RH
Elevator Down
Elevator Up
Chain Elev Trim Fwd Low
Chain Elev Trim Fwd Up
Elevator Trim Forward RH
Elevator Trim Forward LH
Elevator Trim Aft RH
Elevator Trim Aft LH
Chain Elev Trim Actuator
Flap Dn LH Act to Trnbkl
Flap Dn RH Act to Trnbkl
Flap Up LH/RH Bell/Tnbkl
Flap Up LH/RH Bell/Tnbkl
Flap Up LH Trnbkl to Act
Flap Up RH Trnbkl to Act
Rudder Forward LH
Rudder Forward RH
Rudder Aft LH
Rudder Aft RH
Chain Connecting Link

210G, T210G 1967			
S/N 21058830 thru 21058936,			
T210-0241 thru T210-0307			
Complete Cable Kit P/N CCKT210-06G (Galvanized)			
Complete Cable Kit P/N CCKT210-06S (Stainless Steel)			
Complete Pulley Kit P/N PULL-KT-65*			
Qty	P/N	Galv	SS
1	MC1260505-1 or 101		
1	MC1260417-1 or 2		
1	MC1260078-8 or 108		
1	MC1260078-7 or 107		
1	MC1260078-5 or 105		
2	MC1260078-9 or 109		
2	MC1260505-40 or 140		
1	MC1260505-38 or 138		

Location
Park Brake
Park Brake Cable & Tube
Aileron Yoke RH
Aileron Yoke LH
Aileron Yoke Carry Thru
Aileron Direct Yoke
Aileron Direct Bellcrank
Aileron Return LH

**Kit continues on next page**

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.  
 3 Due to inconsistency in OEM parts these flap cables should be replaced at the same time.



# Flight Control System Flight Control Cables - Cessna



**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260505-32 or 132			Elevator Down
1	MC1260505-33 or 133			Elevator Up
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260505-22 or 122			Elevator Trim Forward RH
1	MC1260505-35 or 135			Elevator Trim Forward LH
1	MC1260505-45 or 145			Elevator Trim Aft RH
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MCS2295-25-43			Chain Elev Trim Actuator
1	MC1260505-49 or 149			Flap Dn LH Act to Trnbkl
1	MC1260505-51 or 151			Flap Dn RH Act to Trnbkl
2	MC1260505-47 or 147			Flap Dn LH/RH Bell/Tnbkl
2	MC1260505-48 or 148			Flap Up LH/RH Bell/Tnbkl
1	MC1260505-50 or 150			Flap Up LH Trnbkl to Act
1	MC1260505-52 or 152			Flap Up RH Trnbkl to Act
1	MC1260505-15 or 115			Rudder Forward LH
1	MC1260505-11 or 111			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210H□, T210H□ 1968□**  
S/N 21058937 thru 21059030,  
T210-0308 thru T210-0378  
Complete Cable Kit P/N CCTK210-07G (Galvanized)  
Complete Cable Kit P/N CCTK210-07S (Stainless Steel)  
Complete Cable Kit P/N CCTK210-07GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCTK210-07SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-66\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Carry Thru
2	MC1260078-9 or 109			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-38 or 138			Aileron Return LH
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260505-32 or 132			Elevator Down
1	MC1260505-33 or 133			Elevator Up
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260505-22 or 122			Elev. Trim Forward RH <sup>8</sup>
1	MC1260505-35 or 135			Elev. Trim Forward LH <sup>8</sup>
1	MC1260505-45 or 145			Elevator Trim Aft RH <sup>8</sup>
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MCS2295-25-43			Chain Elev Trim Actuator
1	MC1260505-56 or 156			Elevator Aft RH <sup>9</sup>
1	MC1260505-62 or 162			Elec Trim Forward RH <sup>9</sup>
1	MC1260505-61 or 161			Elec Trim Forward LH <sup>9</sup>
1	MC1260505-167 <sup>2</sup>			Elec Trim Cen. LH SS <sup>9</sup>
1	MC1260505-49 or 149			Flap Dn LH Act to Trnbkl
1	MC1260505-51 or 151			Flap Dn RH Act to Trnbkl
2	MC1260505-47 or 147			Flap Dn LH/RH Bell/Tnbkl
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
1	MC1260505-50 or 150			Flap Up LH Trnbkl to Act
1	MC1260505-52 or 152			Flap Up RH Trnbkl to Act
1	MC1260505-15 or 115			Rudder Forward LH
1	MC1260505-11 or 111			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210H□, T210H□ 1968□**  
S/N 21059031 thru 21059061,  
T210-0379 thru T210-0392  
Complete Cable Kit P/N CCTK210-08G (Galvanized)  
Complete Cable Kit P/N CCTK210-08S (Stainless Steel)  
Complete Cable Kit P/N CCTK210-08GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCTK210-08SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-67\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Carry Thru
2	MC1260078-9 or 109			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-38 or 138			Aileron Return LH
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260505-32 or 132			Elevator Down
1	MC1260505-33 or 133			Elevator Up
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260505-22 or 122			Elev. Trim Forward RH <sup>8</sup>

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC1260505-35 or 135			Elev. Trim Forward LH <sup>8</sup>
1	MC1260505-45 or 145			Elevator Trim Aft RH <sup>8</sup>
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MCS2295-25-43			Chain Elev Trim Actuator
1	MC1260505-56 or 156			Elevator Aft RH <sup>9</sup>
1	MC1260505-62 or 162			Elec Trim Forward RH <sup>9</sup>
1	MC1260505-61 or 161			Elec Trim Forward LH <sup>9</sup>
1	MC1260505-167 <sup>2</sup>			Elec Trim Cen. LH SS <sup>9</sup>
1	MC1260505-73 or 173			Flp Down LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Down RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
				Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260505-15 or 115			Rudder Forward LH
1	MC1260505-11 or 111			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210J□, T210J□ 1969□**  
S/N 21059062 thru 21059100,  
T210-0393 thru T210-0407  
Complete Cable Kit P/N CCTK210-09G (Galvanized)  
Complete Cable Kit P/N CCTK210-09S (Stainless Steel)  
Complete Cable Kit P/N CCTK210-09GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCTK210-09SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-68\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Carry Thru
2	MC1260208-1 <sup>2</sup>			Aileron/Rudder Int Lower
2	MC1260505-174 <sup>2</sup>			Aileron/Rudder Int Upper
1	MC1260505-187 <sup>2</sup>			Ail/Rud Int Up with Tube
2	MC1260078-9 or 109			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-38 or 138			Aileron Return LH
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260505-32 or 132			Elevator Down
1	MC1260505-33 or 133			Elevator Up
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260505-22 or 122			Elev. Trim Forward RH <sup>8</sup>
1	MC1260505-35 or 135			Elev. Trim Forward LH <sup>8</sup>
1	MC1260505-45 or 145			Elevator Trim Aft RH <sup>8</sup>
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MCS2295-25-43			Chain Elev Trim Actuator
1	MC1260505-56 or 156			Elevator Aft RH <sup>9</sup>
1	MC1260505-62 or 162			Elec Trim Forward RH <sup>9</sup>
1	MC1260505-61 or 161			Elec Trim Forward LH <sup>9</sup>
1	MC1260505-167 <sup>2</sup>			Elec Trim Cen. LH SS <sup>9</sup>
1	MC1260505-73 or 173			Flap Dn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrank to Trnbkl
				Flap Down LH/RH
2	MC1260505-47 or 147			Bellcrank to Turnbuckle
1	MC1260505-70 or 170			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260505-15 or 115			Rudder Forward LH
1	MC1260505-11 or 111			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210J□, T210J□ 1969□**  
S/N 21059101 thru 21059199,  
T210-0408 thru T210-0454  
Complete Cable Kit P/N CCTK210-10G (Galvanized)  
Complete Cable Kit P/N CCTK210-10S (Stainless Steel)  
Complete Cable Kit P/N CCTK210-10GE (Galv. Elec. Trim)  
Complete Cable Kit P/N CCTK210-10SE (SS Electric Trim)  
Complete Pulley Kit P/N PULL-KT-68\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Carry Thru
2	MC1260208-1 <sup>2</sup>			Aileron/Rudder Int Lower
2	MC1260505-174 <sup>2</sup>			Aileron/Rudder Int Upper
1	MC1260505-187 <sup>2</sup>			Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-38 or 138			Aileron Return LH

**Kit continues in next column**

**Continued from previous column**

Qty	P/N	Galv	SS	Location
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260505-32 or 132			Elevator Down
1	MC1260505-33 or 133			Elevator Up
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260505-22 or 122			Elev. Trim Forward RH <sup>8</sup>
1	MC1260505-35 or 135			Elev. Trim Forward LH <sup>8</sup>
1	MC1260505-45 or 145			Elevator Trim Aft RH <sup>8</sup>
1	MC1260505-46 or 146			Elevator Trim Aft LH
1	MCS2295-25-43			Chain Elev Trim Actuator
1	MC1260505-56 or 156			Elevator Aft RH <sup>9</sup>
1	MC1260505-62 or 162			Elec Trim Forward RH <sup>9</sup>
1	MC1260505-61 or 161			Elec Trim Forward LH <sup>9</sup>
1	MC1260204-1 <sup>2</sup>			Elev. Trim Cen. LH SS <sup>9</sup>
1	MC1260505-73 or 173			Flap Dn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
				Flap Down LH/RH
2	MC1260505-47 or 147			Bellcrank to Turnbuckle
1	MC1260505-70 or 170			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260505-15 or 115			Rudder Forward LH
1	MC1260505-11 or 111			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210K□, T210K□ 1970□**  
S/N 21059200 thru 21059323  
Complete Cable Kit P/N CCTK210-11G (Galvanized)  
Complete Cable Kit P/N CCTK210-11S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-69\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1	MC1260078-5 or 105			Aileron Yoke Carry Thru
2	MC1260208-1 <sup>2</sup>			Aileron/Rudder Int Lower
2	MC1260505-174 <sup>2</sup>			Aileron/Rudder Int Upper
1	MC1260505-187 <sup>2</sup>			Ail/Rud Int Upper w/Tube
2	MC1260078-9 or 109			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-38 or 138			Aileron Return LH
1	MC1260505-39 or 139			Aileron Return RH
1	MC1260475-7 or 107			Elevator Up
1	MC1260475-8 or 108			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260660-3 <sup>2</sup>			Elevator Trim Elec Drive
1	MC1260505-73 or 173			Flp Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
				Flap Dn Bellcrk to Trnbkl
2	MC1260505-47 or 147			Flap Up LH Trnbkl to Act
1	MC1260505-70 or 170			Flap Up RH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260475-5 or 105			Rudder Forward LH
1	MC1260475-6 or 106			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
1	MCS2295P25-55			Chain Elev Trim Actuator
6	MCS2294-25			Chain Connecting Link

**210K□, T210K□ 1970□-1971□**  
S/N 21059324 thru 21059465  
Complete Cable Kit P/N CCTK210-12G (Galvanized)  
Complete Cable Kit P/N CCTK210-12S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-69\*

Qty	P/N	Galv	SS	Location
1	MC1260505-1 or 101			Park Brake
1	MC1260417-1 or 2			Park Brake Cable & Tube
1	MC1260078-8 or 108			Aileron Yoke RH
1	MC1260078-7 or 107			Aileron Yoke LH
1				







# Flight Control System Flight Control Cables - Cessna



**Continued from previous page**

Qty	P/N	Galv	SS	Location
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260475-5 or 105			Rudder Forward LH
1	MC1260475-6 or 106			Rudder Forward RH
1	MC1260505-13 or 113			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210N, T210N 1981-1982**  
S/N 21064186 thru 21064772  
Complete Cable Kit P/N CCKT210-19G (Galvanized)  
Complete Cable Kit P/N CCKT210-19S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-77\*

Qty	P/N	Galv	SS	Location
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-174			Aileron/Rudder Int Upper
1	MC1260505-187			Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-319 or 419			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**210N, T210N 1983-1984**  
S/N 21064773 thru 21064897  
Complete Cable Kit P/N CCKT210-20G (Galvanized)  
Complete Cable Kit P/N CCKT210-20S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-77\*

Qty	P/N	Galv	SS	Location
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-174			Aileron/Rudder Int Upper
1	MC1260505-187			Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114			Aileron Direct Yoke
2	MC1260505-321 or 421			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Fwd LH
1	MC1260475-2 or 102			Elevator Trim Fwd RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl

Kit continues in next column

**Continued from previous page**

Qty	P/N	Galv	SS	Location
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-319 or 419			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft LH
6	MCS2294-25			Rudder Aft RH
				Chain Connecting Link

**210R, T210R 1985-1986**  
S/N 21064898 thru 2165009  
Complete Cable Kit P/N CCKT210-21G (Galvanized)  
Complete Cable Kit P/N CCKT210-21S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-78\*

Qty	P/N	Galv	SS	Location
1	MC1260417-6 or 7			Park Brake Cable & Tube
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260078-14 or 114			Aileron Yoke Direct
2	MC1260505-321 or 421			Aileron Direct Bellcrank
1	MC1260505-323 or 423			Aileron Return LH
1	MC1260505-322 or 422			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260505-325 or 425			Elevator Trim Aft LH
1	MC1260505-326 or 426			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-329 or 429			Rudder Forward RH
1	MC1260505-330 or 430			Rudder Aft LH
6	MCS2294-25			Rudder Aft RH
				Chain Connecting Link

**P210N 1978-1980**  
S/N P21000001 thru P21000553  
Complete Cable Kit P/N CCKTP210-01G (Galvanized)  
Complete Cable Kit P/N CCKTP210-01S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-81\*

Qty	P/N	Galv	SS	Location
1	MC1260505-97 or 197			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-174			Aileron/Rudder Int Upper
1	MC1260505-187			Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elev Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flap Up Bellcrk to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-13 or 113			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft LH
6	MCS2294-25			Rudder Aft RH
				Chain Connecting Link

**P210N 1980-1981**  
S/N P21000554 thru P21000622  
Complete Cable Kit P/N CCKTP210-02G (Galvanized)  
Complete Cable Kit P/N CCKTP210-02S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-81\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-174			Aileron/Rudder Int Upper
1	MC1260505-187			Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flp Up Bellcrank to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-13 or 113			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**P210N 1981-1982**  
S/N P21000623 thru P21000797  
Complete Cable Kit P/N CCKTP210-03G (Galvanized)  
Complete Cable Kit P/N CCKTP210-03S (Stainless Steel)  
Complete Pulley Kit P/N PULL-KT-81\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-174			Aileron/Rudder Int Upper
1	MC1260505-187			Ail/Rud Int Upper w/Tube
2	MC1260078-13 or 113			Aileron Direct Yoke
2	MC1260505-40 or 140			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flap Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flp Up Bellcrank to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH
1	MC1260505-70 or 170			Bellcrank to Turnbuckle
1	MC1260505-72 or 172			Flap Up LH Trnbkl to Act
1	MC1260475-5 or 105			Flap Up RH Trnbkl to Act
1	MC1260475-6 or 106			Rudder Forward LH
1	MC1260505-13 or 113			Rudder Forward RH
1	MC1260505-12 or 112			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

\* See pages 100-101 for Pulley Kit Components  
 1 Partial model eligibility  
 2 Included in both galvanized and stainless kits.

**P210N 1982-1986**

S/N P21000798 thru P21000834  
 Complete Cable Kit P/N CCKTP210-04G (Galvanized)  
 Complete Cable Kit P/N CCKTP210-04S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-81\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-1742			Aileron/Rudder Int Upper
1	MC1260505-1872			Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114			Aileron Direct Yoke
2	MC1260505-321 or 421			Aileron Direct Bellcrank
1	MC1260505-314 or 414			Aileron Return LH
1	MC1260505-315 or 415			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MC1260505-96 or 196			Elevator Down Spring
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-55			Chain Elev Trim Actuator
1	MC1260475-9 or 109			Elevator Trim Aft LH
1	MC1260475-10 or 110			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flp Up Bellcrank to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260475-5 or 105			Rudder Forward LH
1	MC1260475-6 or 106			Rudder Forward RH
1	MC1260505-319 or 419			Rudder Aft LH
1	MC1260505-12 or 112			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**P210R 1985-1986**

S/N P21000835 thru P21000874  
 Complete Cable Kit P/N CCKTP210-05G (Galvanized)  
 Complete Cable Kit P/N CCKTP210-05S (Stainless Steel)  
 Complete Pulley Kit P/N PULL-KT-82\*

Qty	P/N	Galv	SS	Location
1	MC1260505-317 or 417			Park Brake
1	MC1260078-11 or 111			Aileron Yoke LH
1	MC1260078-12 or 112			Aileron Yoke RH
1	MC1260078-10 or 110			Aileron Yoke Carry Thru
2	MC1260208-12			Aileron/Rudder Int Lower
1	MC1260505-1742			Aileron/Rudder Int Upper
1	MC1260505-1872			Ail/Rud Int Upper w/Tube
2	MC1260078-14 or 114			Aileron Direct Yoke
2	MC1260505-321 or 421			Aileron Direct Bellcrank
1	MC1260505-323 or 423			Aileron Return LH
1	MC1260505-322 or 422			Aileron Return RH
1	MC1260475-12 or 112			Elevator Up
1	MC1260475-13 or 113			Elevator Down
1	MCS2295A25-111			Chain Elev Trim Fwd Up
1	MCS2295P25-159			Chain Elev Trim Fwd Low
1	MC1260475-1 or 101			Elevator Trim Forward LH
1	MC1260475-2 or 102			Elevator Trim Forward RH
1	MCS2295P25-59			Chain Elev Trim Actuator
1	MC1260505-325 or 425			Elevator Trim Aft LH
1	MC1260505-326 or 426			Elevator Trim Aft RH
1	MC1260505-73 or 173			Flap Dwn LH Trnbkl to Act
1	MC1260505-71 or 171			Flp Dwn RH Trnbkl to Act
2	MC1260505-48 or 148			Flp Up Bellcrank to Trnbkl
2	MC1260505-47 or 147			Flap Down LH/RH Bellcrank to Turnbuckle
1	MC1260505-70 or 170			Flap Up LH Trnbkl to Act
1	MC1260505-72 or 172			Flap Up RH Trnbkl to Act
1	MC1260475-5 or 105			Rudder Forward LH
1	MC1260475-6 or 106			Rudder Forward RH
1	MC1260505-329 or 429			Rudder Aft LH
1	MC1260505-330 or 430			Rudder Aft RH
6	MCS2294-25			Chain Connecting Link

**Cables for AG-CAT Aircraft**

Aileron Cables			
Model	Location	Part Number	Per A/C
G-164	Upper Sector	MCA1860-101	2
G-164	Lower Sector	MCA1860-101	2
G164A	Upper Sector	MCA1860-401	2
G164A	Lower Sector	MCA1860-101	2
G164B	Upper Sector	MCA2860-7	2
G164B	Lower Sector	MCA2860-5	2

Rudder Cables			
Model	Location	Part Number	Per A/C
G164, G164A	Left Hand	MCA1860-35	1
G164, G164A	Right Hand	MCA1860-36	1
G164B	Left & Right	MCA3860-3	2



Subassemblies consisting of a long and short cable are available. Call for details.

**Stabilator Adjust Cables for Piper Aircraft**

- Time tested 'long splice' method for strength and reliability
- Available in galvanized or stainless
- Custom lengths available for your antique projects

Model	S/N	P/N	Cable Comp.
J-3, PA-11	All	MC41671-2	Galvanized
PA-12	All	MC41671-5	Galvanized
PA-12	All	MC41671-6	Stainless
J-3, PA-11	All	MC41671-8	Stainless
PA-14	All	MC41671-9	Galvanized
PA-16, PA-20	All	MC41671-11	Galvanized
PA-14	All	MC41671-12	Galvanized
PA-18, PA-18A	1 thru 548	MC41671-13	Galvanized
PA-16	All	MC41671-14	Stainless
PA-18, PA-18A	All with Floats	MC41671-15	Stainless
PA-20, PA-22	All	MC41671-16	Galvanized
PA-18, PA-18A	549 and On	MC41671-17	Galvanized
PA-22	354 and On	MC41671-18	Stainless
PA-18, PA-18A	All with Floats	MC41671-19	Stainless



Self lubricating Fairlead  
 Part Number MC42911



Hand spliced continuous loop!





# Flight Control System Flight Control Cables - Piper



FAA-PMA Approved

**PA28-140**  
S/N 28-20002 thru 28-20656  
Complete Kit P/N PKCT140-01  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
1	MC62701-014	Flap

**PA28-140**  
S/N 28-20002 thru 28-20656  
with Kit # 756-896 or Kit # 756-930 Installed,  
28-20657 thru 28-26956, 28-7125001 thru 28-7225612  
with Kit # 756-896 or Kit # 756-930 Installed  
Complete Kit P/N PKCT140-02 (Manual Trim)  
Complete Kit P/N PKCT140-05 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044	Stabilator Trim Forward (Elec)
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
1	MC62701-014	Flap

**PA28-140**  
S/N 28-7325001 thru 28-7725290  
Complete Kit P/N PKCT140-03 (Manual Trim)  
Complete Kit P/N PKCT140-04 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-047	Stabilator Trim Aft
1	MC62701-016	Stabilator Trim Indicator Aft
2	MC62701-056	Stab Trim Fwd LH and RH (Man)
1	MC62701-057	Stab Trim Fwd LH (Electric)
1	MC62701-014	Flap

**PA28-150**  
S/N 28-1 thru 28-1410  
Complete Kit P/N PKCT150-01  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim Forward
1	MC62701-014	Flap

**PA28-150**  
S/N 28-1 thru 28-2171  
With Kit # 756-896 or Kit # 756-930 Installed  
Complete Kit P/N PKCT150-02  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH

Kit continues in next column

**Continued from previous column**

Qty	Part Number	Location
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA28-150**  
S/N 28-1411 thru 28-2171  
Complete Kit P/N PKCT150-03  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim

**PA28-150**  
S/N 28-2172 thru 28-4377  
Complete Kit P/N PKCT150-04 (Manual Trim)  
Complete Kit P/N PKCT150-05 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stab Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044	Stab Trim Forward (Electric)
1	MC62701-014	Flap

**PA28-151**  
S/N 28-7415001 thru 28-7715314  
Complete Kit P/N PKCT151-01 (Manual Trim)  
Complete Kit P/N PKCT151-02 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113	Stabilator Forward LH
1	MC62701-114	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104	Stab Trim Fwd LH and RH (Man)
1	MC62701-111	Stab Trim Forward LH (Electric)

**PA28-160**  
S/N 28-1 thru 28-1410  
Complete Kit P/N PKCT160-01  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim
1	MC62701-014	Flap

**PA28-160**  
S/N 28-1 thru 28-2171  
With Kit # 756-896 or Kit # 756-930 Installed  
Complete Kit P/N PKCT160-02  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA28-160**  
S/N 28-1411 thru 28-2171  
Complete Kit P/N PKCT160-03  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim

**PA28-160**  
S/N 28-2172 thru 28-4377  
Complete Kit P/N PKCT160-04 (Manual Trim)  
Complete Kit P/N PKCT160-05 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010	Stabilator Forward LH
1	MC62701-011	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stab Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044	Stab Trim Forward (Electric)
1	MC62701-014	Flap

**PA28-161**  
S/N 28-7716001 thru 28-8616057,  
2816001 thru 2816065, 2816067 thru 2816119,  
2841001 thru 2841365  
Complete Kit P/N PKCT161-01 (Manual Trim)  
Complete Kit P/N PKCT161-02 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113	Stabilator Forward LH
1	MC62701-114	Stabilator Forward RH
1	MC62701-012	Stabilator Aft Bottom
1	MC62701-013	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104	Stab Trim Fwd LH and RH (Man)
1	MC62701-111	Stabilator Trim Forward LH (Elec)

**1** Stabilator kits to assist with Piper AD2013-02-13 include cables designated with **1** plus 2 each MS21251-B5S Barrels and 10 each MS21256-1 Locking Clips.  
**2** Included in kits for manual trim aircraft only.  
**3** Included in kits for electric trim aircraft only.  
**4** Kits for electric trim aircraft include only one of this part number.



**PA28-180**  
S/N 28-725 thru 28-1410  
Complete Kit P/N PKCT180-01  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-015	Stabilator Trim
1	MC62701-014	Flap

**PA28-180**  
S/N 28-725 thru 28-2171  
With Kit # 756-896 or Kit #756-930 Installed  
Complete Kit P/N PKCT180-02  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-045	Stabilator Trim Forward
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA28-180**  
S/N 28-1411 thru 28-2171  
Complete Kit P/N PKCT180-03  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-014	Flap
1	MC62701-016	Stabilator Trim Indicator Aft
1	MC62701-032	Stabilator Trim

**PA28-180**  
S/N 28-2172 thru 28-4377  
Complete Kit P/N PKCT180-04 (Manual Trim)  
Complete Kit P/N PKCT180-09 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-045 <b>2</b>	Stabilator Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044 <b>3</b>	Stabilator Trim Forward (Elec)
1	MC62701-014	Flap

**PA28-180**  
S/N 28-4378 thru 28-5869,  
28-7105001 thru 28-7205328  
Complete Kit P/N PKCT180-05 (Manual Trim)  
Complete Kit P/N PKCT180-06 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH

**Kit continues in next column**

**Continued from previous column**  
**Qty Part Number Location**  
1 MC62701-011 **1** Stabilator Forward RH  
1 MC62701-012 **1** Stabilator Aft Bottom  
1 MC62701-013 **1** Stabilator Aft Top  
1 MC62701-047 Stabilator Trim Aft  
2 MC62701-056 **4** Stab Trim Fwd LH and RH (Man)  
1 MC62701-057 **3** Stabilator Trim Forward LH (Elec)  
1 MC62701-014 Flap

**PA28-180**  
S/N 28-7305001 thru 28-7505261  
Complete Kit P/N PKCT180-07 (Manual Trim)  
Complete Kit P/N PKCT180-08 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
1	MC62701-100	Rudder Forward LH
1	MC62701-006	Rudder Forward RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113 <b>1</b>	Stabilator Forward LH
1	MC62701-114 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)
1	MC62701-101	Flap

**PA28-181**  
S/N 28-7690001 thru 28-8690062,  
2890001 thru 2890195, 2890197 thru 2890231  
Complete Kit P/N PKCT181-01 (Manual Trim)  
Complete Kit P/N PKCT181-02 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113 <b>1</b>	Stabilator Forward LH
1	MC62701-114 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28-235**  
S/N 28-10003 thru 28-10605  
Complete Kit P/N PKCT235-01  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-032	Stabilator Trim
1	MC62701-014	Flap

**PA28-235**  
S/N 28-10003 thru 28-10605  
with Kit 756-896 or 756-930 installed  
Complete Kit P/N PKCT235-02  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-045	Stabilator Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA28-235**  
S/N 28-10606 thru 28-10719  
Complete Kit P/N PKCT235-03 (Manual Trim)  
Complete Kit P/N PKCT235-08 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-016	Stabilator Indicator Aft
1	MC62701-045 <b>2</b>	Stabilator Trim Forward (Man)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-044 <b>3</b>	Stabilator Trim Forward (Elec)
1	MC62701-014	Flap

**PA28-235**  
S/N 28-10720 thru 28-11393  
28-7110001 thru 28-7210033  
Complete Kit P/N PKCT235-04 (Manual Trim)  
Complete Kit P/N PKCT235-05 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-01 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-010 <b>1</b>	Stabilator Forward LH
1	MC62701-011 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-047	Stabilator Trim Aft
2	MC62701-056 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-057 <b>3</b>	Stabilator Trim Forward LH (Elec)
1	MC62701-014	Flap

**PA28-235**  
S/N 28-7310001 thru 28-7710089  
Complete Kit P/N PKCT235-06 (Manual Trim)  
Complete Kit P/N PKCT235-07 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
1	MC62701-100	Rudder Forward LH
1	MC62701-006	Rudder Forward RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113 <b>1</b>	Stabilator Forward LH
1	MC62701-114 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)
1	MC62701-101	Flap

**PA28-236**  
S/N 28-7911001 thru 28-8611008,  
2811001 thru 2811050  
Complete Kit P/N PKCT236-01 (Manual Trim)  
Complete Kit P/N PKCT236-02 (Electric Trim)  
Stabilator Kit P/N PKCT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113 <b>1</b>	Stabilator Forward LH
1	MC62701-114 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**1 Stabilator kits to assist with Piper AD2013-02-13 include cables designated with 1 plus 2 each MS21251-B5S Barrels and 10 each MS21256-1 Locking Clips.**  
**2 Included in kits for manual trim aircraft only.**  
**3 Included in kits for electric trim aircraft only.**  
**4 Kits for electric trim aircraft include only one of this part number.**



# Flight Control System

## Flight Control Cables - Piper



**PA28-201T**  
S/N 28-7921001 thru 28-7921095  
Complete Kit P/N PCKT201T-01 (Manual Trim)  
Complete Kit P/N PCKT201T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-03 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-122	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-113 <b>1</b>	Stabilator Forward LH
1	MC62701-114 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28R-180**  
S/N 28R-30005 thru 28R-30481,  
28R-30483 thru 28R-31279,  
28R-7130001 thru 28R-7130019  
Complete Kit P/N PCKTR180-01 (Manual Trim)  
Complete Kit P/N PCKTR180-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-04 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-064	Aft Rudder LH and RH
1	MC62701-062 <b>1</b>	Stabilator Fwd LH
1	MC62701-061 <b>1</b>	Stabilator Fwd RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-014	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-056 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-057 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28R-200**  
S/N 28R-35001 thru 28R-35830,  
28R-7135001 thru 28R-7135238  
Complete Kit P/N PCKTR200-01 (Manual Trim)  
Complete Kit P/N PCKTR200-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-04 **1**

Qty	Part Number	Location
2	MC62701-002	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-006	Rudder Forward LH and RH
2	MC62701-064	Rudder Aft LH and RH
1	MC62701-062 <b>1</b>	Stabilator Fwd LH
1	MC62701-061 <b>1</b>	Stabilator Fwd RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-014	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-056 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-057 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28R-200**  
S/N 28R-7235001 thru 28R-7635545  
Complete Kit P/N PCKTR200-03 (Manual Trim)  
Complete Kit P/N PCKTR200-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-05 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-004	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-064	Rudder Aft LH and RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28R-201**  
S/N 28R-7737002 thru 28R-7837317,  
2837001 thru 2837061  
Complete Kit P/N PCKTR201-01 (Manual Trim)  
Complete Kit P/N PCKTR201-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-05 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-064	Rudder Aft LH and RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28R-201T**  
S/N 28R-7703001 thru 28R-7803373,  
2803001 thru 2803015  
Complete Kit P/N PCKTR201T-01 (Manual Trim)  
Complete Kit P/N PCKTR201T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-05 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
2	MC62701-100	Rudder Forward LH and RH
2	MC62701-064	Rudder Aft LH and RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-012 <b>1</b>	Stabilator Aft Bottom
1	MC62701-013 <b>1</b>	Stabilator Aft Top
1	MC62701-101	Flap
1	MC62701-047	Stabilator Trim Aft
2	MC62701-104 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-111 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA28RT-201**  
S/N 28R-7918001 thru 28R-8218026  
Complete Kit P/N PCKTRT201-01 (Manual Trim)  
Complete Kit P/N PCKTRT201-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-06 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
1	MC62701-101	Flap
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-169 <b>1</b>	Stabilator Aft Upper
1	MC62701-170 <b>1</b>	Stabilator Aft Lower
2	MC62701-189 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-155	Stabilator Trim Aft
2	MC62701-100	Rudder Forward LH and RH
1	MC62701-168	Rudder Aft
1	MC62701-191 <b>3</b>	Stabilator Trim Fwd LH (Elec)

**PA28RT-201**  
S/N 28R-7918001 thru 28R-8218026  
For aircraft with Altimatec IIIC Autopilot  
Complete Kit P/N PCKTRT201-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-06 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
1	MC62701-101	Flap
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-169 <b>1</b>	Stabilator Aft Upper
1	MC62701-170 <b>1</b>	Stabilator Aft Lower
2	MC62701-189 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-155	Stabilator Trim Aft
2	MC62701-100	Rudder Forward RH
1	MC62701-168	Rudder Aft
1	MC62701-193	Stab Trim Fwd LH (Autopilots)

**PA28RT-201T**  
S/N 28R-7931001 thru 28R-8631005,  
2831001 thru 2831038  
Complete Kit P/N PCKTRT201T-01 (Manual Trim)  
Complete Kit P/N PCKTRT201T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-06 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH

**Kit continues in next column**

**Continued from previous column**

Qty	Part Number	Location
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
1	MC62701-101	Flap
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-169 <b>1</b>	Stabilator Aft Upper
1	MC62701-170 <b>1</b>	Stabilator Aft Lower
2	MC62701-189 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-155	Stabilator Trim Aft
2	MC62701-100	Rudder Forward LH and RH
1	MC62701-168	Rudder Aft
1	MC62701-191 <b>3</b>	Stabilator Trim Fwd LH (Elec)

**PA28RT-201T**  
S/N 28R-7931001 thru 28R-8631005,  
2831001 thru 2831038  
For aircraft with Altimatec IIIC Autopilot  
Complete Kit P/N PCKTRT201T-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-06 **1**

Qty	Part Number	Location
2	MC62701-099	Aileron Forward LH and RH
2	MC62701-143	Aileron Wing LH and RH
1	MC62701-123	Aileron Balance LH
1	MC62701-124	Aileron Balance RH
1	MC62701-101	Flap
1	MC62701-102 <b>1</b>	Stabilator Forward RH
1	MC62701-103 <b>1</b>	Stabilator Forward LH
1	MC62701-169 <b>1</b>	Stabilator Aft Upper
1	MC62701-170 <b>1</b>	Stabilator Aft Lower
1	MC62701-189 <b>2</b>	Stab Trim Fwd RH
1	MC62701-155	Stabilator Trim Aft
2	MC62701-100	Rudder Forward LH and RH
1	MC62701-168	Rudder Aft
1	MC62701-193	Stab Trim Fwd LH (Autopilots)

**PA28S-180**  
S/N 28S-671 thru 28S-2171  
Complete Kit P/N PCKTS180-01  
Stabilator Kit P/N PCKT-STAB-02 **1**

Qty	Part Number	Location
2	MC62701-018	Aileron Wing LH and RH
1	MC62701-019	Aileron Balance LH
1	MC62701-020	Aileron Balance RH
2	MC62701-017	Aileron Forward LH and RH
2	MC62701-023	Rudder Aft LH and RH
1	MC62701-027 <b>1</b>	Stabilator Aft LH
1	MC62701-028 <b>1</b>	Stabilator Aft RH
1	MC62701-031	Stabilator Trim Aft

**PA28S-180**  
S/N 28S-2172 thru 28S-5869,  
28S-7105001 thru 28S-7205234  
Complete Kit P/N PCKTS180-02 (Manual Trim)  
Complete Kit P/N PCKTS180-03 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-02 **1**

Qty	Part Number	Location
2	MC62701-018	Aileron Wing LH and RH
1	MC62701-019	Aileron Balance LH
1	MC62701-020	Aileron Balance RH
2	MC62701-017	Aileron Forward LH and RH
2	MC62701-023	Rudder Aft LH and RH
1	MC62701-027 <b>1</b>	Stabilator Aft LH
1	MC62701-028 <b>1</b>	Stabilator Aft RH
1	MC62701-031	Stabilator Trim Aft
1	MC62701-046 <b>2</b>	Stabilator Trim Forward LH (Man)
1	MC62701-049 <b>3</b>	Stabilator Trim Forward LH (Elec)

**PA32-260**  
S/N 32-1 thru 32-1320,  
32-7100001 thru 32-7300076  
Complete Kit P/N PCKT260-01 (Manual Trim)  
Complete Kit P/N PCKT260-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-037 <b>1</b>	Rudder Fwd RH/Stabilator Fwd RH
1	MC62701-038	Rudder Forward LH
1	MC62701-040 <b>1</b>	Stabilator Forward LH

**Kit continues on next page**

**1** Stabilator kits to assist with Piper AD2013-02-13 include cables designated with **1** plus 2 each MS21251-B5S Barrels and 10 each MS21256-1 Locking Clips.  
**2** Included in kits for manual trim aircraft only.  
**3** Included in kits for electric trim aircraft only.  
**4** Kits for electric trim aircraft include only one of this part number.





**Continued from previous page**

1	MC62701-012	1	Stabilator Aft LH
1	MC62701-013	1	Stabilator Aft RH
2	MC62701-041	4	Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3	Stabilator Trim Forward LH (Elec)
1	MC62701-047		Stabilator Trim Aft
1	MC62701-014		Flap

**PA32-260**  
S/N 32-7400001 thru 32-7400061  
Complete Kit P/N PCKT260-03 (Manual Trim)  
Complete Kit P/N PCKT260-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
1	MC62701-134	Rudder Aft LH
1	MC62701-008	Rudder Aft RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-037	1 Rudder Fwd RH/Stabilator Fwd RH
1	MC62701-038	Rudder Forward LH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-260**  
S/N 32-7500001 thru 32-7800008  
Complete Kit P/N PCKT260-05 (Manual Trim)  
Complete Kit P/N PCKT260-06 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037	1 Rudder Fwd LH&RH/Tab Fwd RH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-300**  
S/N 32-40000 thru 32-41018,  
32-7140001 thru 32-7340201  
Complete Kit P/N PCKT300-01 (Manual Trim)  
Complete Kit P/N PCKT300-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037	1 Rudder Fwd LH&RH/Tab Fwd RH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-300**  
S/N 32-40000 thru 32-41018,  
32-7140001 thru 32-7340201  
Complete Kit P/N PCKT300-01 (Manual Trim)  
Complete Kit P/N PCKT300-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-037	1 Rudder Fwd RH/Tab Fwd RH
1	MC62701-038	Rudder Forward LH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Forward Stabilator Trim
1	MC62701-042	3 Electric Trim
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-300**  
S/N 32-7440001 thru 32-7440182  
Complete Kit P/N PCKT300-03 (Manual Trim)  
Complete Kit P/N PCKT300-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
1	MC62701-134	Rudder Aft LH
1	MC62701-008	Rudder Aft RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
2	MC62701-037	1 Rudder Fwd RH/Tab Fwd RH
1	MC62701-038	Rudder Forward LH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-300**  
S/N 32-7540001 thru 32-7940282  
Complete Kit P/N PCKT300-05 (Manual Trim)  
Complete Kit P/N PCKT300-06 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32-301**  
S/N 32-8006001 thru 32-8606023,  
3206001 thru 3206019  
Complete Kit P/N PCKT301-01 (Manual Trim)  
Complete Kit P/N PCKT301-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-202	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-208	1 Stabilator Aft LH
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-047	Stabilator Trim Aft
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
2	MC62701-008	Rudder Aft LH and RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH

**PA32-301**  
S/N 32-8406001 thru 32-8606023,  
3206001 thru 3206019  
For aircraft with Century 31 Autopilot  
Complete Kit P/N PCKT301-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-202	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-208	1 Stabilator Aft LH
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-047	Stabilator Trim Aft
1	MC62701-041	2 Stab Trim Fwd RH
1	MC62701-135	Stabilator Trim Forward
2	MC62701-008	Rudder Aft LH and RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH

**PA32-301T**  
S/N 32-8024001 thru 32-8424002  
Complete Kit P/N PCKT301T-01 (Manual Trim)  
Complete Kit P/N PCKT301T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-202	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-208	1 Stabilator Aft LH
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-047	Stabilator Trim Aft
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)

**PA32-301T**  
S/N S/N 32-8024001 thru 32-8424002  
For aircraft with Century 31 Autopilot  
Complete Kit P/N PCKT301T-04 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-202	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-208	1 Stabilator Aft LH

**Kit continues in next column**

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Qty	Part Number	Location
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-047	Stabilator Trim Aft
1	MC62701-041	Stab Trim Fwd RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-135	Stabilator Trim Fwd LH (Autopilot)

**PA32R-300**  
S/N 32R-7680001 thru 32R-7880008  
Complete Kit P/N PCKTR300-01 (Manual Trim)  
Complete Kit P/N PCKTR300-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-07 **1**

Qty	Part Number	Location
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-012	1 Stabilator Aft LH
1	MC62701-013	1 Stabilator Aft RH
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
1	MC62701-040	1 Stabilator Forward LH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)
1	MC62701-047	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32R-301**  
S/N 32R-8013001 thru 32R-8613006,  
3213001 thru 3213041  
Complete Kit P/N PCKTR301-01 (Manual Trim)  
Complete Kit P/N PCKTR301-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-199	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-208	1 Stabilator Aft LH
1	MC62701-047	Stabilator Trim Aft
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)

**PA32R-301T**  
S/N 32R-8029001 thru 32R-8629008,  
3229001 thru 3229003  
Complete Kit P/N PCKTR301T-01 (Manual Trim)  
Complete Kit P/N PCKTR301T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-09 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-199	Aileron Wing LH and RH
1	MC62701-200	Aileron Balance LH
1	MC62701-201	Aileron Balance RH
1	MC62701-014	Flap
1	MC62701-207	1 Stabilator Forward LH
1	MC62701-205	1 Stabilator Aft RH
1	MC62701-208	1 Stabilator Aft LH
1	MC62701-047	Stabilator Trim Aft
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
2	MC62701-008	Rudder Aft LH and RH
1	MC62701-042	3 Stabilator Trim Forward LH (Elec)

**PA32RT-300**  
S/N 32R-7885001 thru 32R-7985125  
Complete Kit P/N PCKTRT300-01 (Manual Trim)  
Complete Kit P/N PCKTRT300-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037	1 Rudder Fwd LH & RH/Tab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040	1 Stabilator Forward LH
1	MC62701-159	1 Stabilator Aft LH
1	MC62701-158	1 Stabilator Aft RH
2	MC62701-041	4 Stab Trim Fwd LH and RH (Man)

**Kit continues on next page**

**1 Stabilator kits to assist with Piper AD2013-02-13 include cables designated with 1 plus 2 each MS21251-B5S Barrels and 10 each MS21256-1 Locking Clips.**

**2 Included in kits for manual trim aircraft only.**

**3 Included in kits for electric trim aircraft only.**

**4 Kits for electric trim aircraft include only one of this part number.**



# Flight Control System

## Flight Control Cables - Piper



**Continued from previous page**

Qty	Part Number	Location
1	MC62701-137	Stabilator Trim Aft
1	MC62701-014	Flap

**PA32RT-300**  
S/N 32R-7885001 thru 32R-7985013,  
32R-7887003 thru 32R-7987035  
For aircraft with Altimatec IIIC Autopilot  
Complete Kit P/N PCKTRT300-05 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037 <b>1</b>	Rudd Fwd LH & RH/Stab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040 <b>1</b>	Stabilator Forward LH
1	MC62701-159 <b>1</b>	Stabilator Aft LH
1	MC62701-158 <b>1</b>	Stabilator Aft RH
1	MC62701-041 <b>1</b>	Stab Trim Fwd RH
1	MC62701-137	Stabilator Trim Aft
1	MC62701-135	Stab Trim Fwd LH & RH (Autopilot)
1	MC62701-014	Flap

**PA32RT-300**  
S/N 32R-7985014 thru 32R-7985125,  
32R-7987036 thru 32R-7987146  
For aircraft with Altimatec IIIC Autopilot  
Complete Kit P/N PCKTRT300-06 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037 <b>1</b>	Rudd Fwd LH & RH/Stab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040 <b>1</b>	Stabilator Forward LH
1	MC62701-159 <b>1</b>	Stabilator Aft LH
1	MC62701-158 <b>1</b>	Stabilator Aft RH
1	MC62701-041	Stab Trim Fwd RH
2	MC62701-137	Stabilator Trim Aft
1	MC62701-183	Stab Trim Fwd LH & RH (Autopilot)

**PA32RT-300T**  
S/N 32R-7887001 thru 32R-7987146  
Complete Kit P/N PCKTRT300T-01 (Manual Trim)  
Complete Kit P/N PCKTRT300T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037 <b>1</b>	Rudd Fwd LH & RH/Stab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040 <b>1</b>	Stabilator Forward LH
1	MC62701-159 <b>1</b>	Stabilator Aft LH
1	MC62701-158 <b>1</b>	Stabilator Aft RH
2	MC62701-041 <b>4</b>	Stab Trim Fwd RH
1	MC62701-137	Stabilator Trim Aft
1	MC62701-042 <b>3</b>	Stabilator Trim Fwd LH (Elec)

**PA32RT-300T**  
S/N 32R-7887003 thru 32R-7887050,  
For aircraft with Altimatec IIIC Autopilot  
32R-7887052 thru 32R-7887307,  
32R-7987001 thru 32R-7987035  
Complete Kit P/N PCKTRT300T-05 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037 <b>1</b>	Rudd Fwd LH & RH/Stab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040 <b>1</b>	Stabilator Forward LH
1	MC62701-159 <b>1</b>	Stabilator Aft LH
1	MC62701-158 <b>1</b>	Stabilator Aft RH
1	MC62701-041	Stab Trim Fwd RH
1	MC62701-137	Stabilator Trim Aft
1	MC62701-135	Stab Trim Fwd LH & RH (Autopilot)

**PA32RT-300T**  
S/N 32R-7987004,  
32R-7987036 thru 32R-7987146  
For aircraft with Altimatec IIIC Autopilot  
Complete Kit P/N PCKTRT300T-06 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-10 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-003	Aileron Wing LH and RH

**Kit continues in next column**

**Continued from previous column**

Qty	Part Number	Location
1	MC62701-048	Aileron Balance LH
1	MC62701-005	Aileron Balance RH
3	MC62701-037 <b>1</b>	Rudd Fwd LH & RH/Stab Fwd RH
1	MC62701-157	Rudder Aft
1	MC62701-040 <b>1</b>	Stabilator Forward LH
1	MC62701-159 <b>1</b>	Stabilator Aft LH
1	MC62701-158 <b>1</b>	Stabilator Aft RH
1	MC62701-041	Stab Trim Fwd RH
1	MC62701-137	Stabilator Trim Aft
1	MC62701-183	Stab Trim Fwd LH & RH (Autopilot)

**PA32S-300**  
S/N 32S-40000 thru 32S-7240137  
Complete Kit P/N PCKTS300-01 (Manual Trim)  
Complete Kit P/N PCKTS300-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-08 **1**

Qty	Part Number	Location
2	MC62701-023	Rudder Aft LH and RH
2	MC62701-051 <b>1</b>	Rudder Fwd RH/Stab Fwd RH
1	MC62701-037	Rudder Forward LH
1	MC62701-027 <b>1</b>	Stabilator Aft LH
1	MC62701-028 <b>1</b>	Stabilator Aft RH
1	MC62701-053 <b>1</b>	Stabilator Forward LH
2	MC62701-050	Aileron Forward LH and RH
2	MC62701-018	Aileron Wing LH and RH
1	MC62701-055	Aileron Balance LH
1	MC62701-020	Aileron Balance RH
1	MC62701-047	Stabilator Trim Aft
2	MC62701-054 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-060 <b>3</b>	Stabilator Trim Fwd LH (Elec)

**PA34-200**  
S/N 34-7250001 thru 34-7450220  
Complete Kit P/N PCKT200-01 (Manual Trim)  
Complete Kit P/N PCKT200-05 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-11 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-074	Aileron Wing LH and RH
1	MC62701-076	Aileron Balance LH
1	MC62701-075	Aileron Balance RH
2	MC62701-093	Aileron/Rudder Interconnect Aft
2	MC62701-094	Aileron/Rudder Interconnect Fwd
2	MC62701-081	Rudder Forward
2	MC62701-072	Rudder Aft
2	MC62701-069	Rudder Trim Fwd
1	MC62701-070	Rudder Trim Aft
1	MC62701-078 <b>1</b>	Stabilator Forward LH
1	MC62701-037 <b>1</b>	Stabilator Forward RH
1	MC62701-079 <b>1</b>	Stabilator Aft Upper
1	MC62701-080 <b>1</b>	Stabilator Aft Lower
2	MC62701-077 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-073	Stabilator Trim Aft
1	MC62701-071	Flap
1	MC62701-097 <b>3</b>	Stab Trim Fwd LH&RH (Autopilot)

**PA34-200**  
S/N 34-7250001 thru 34-7450024,  
34-7450025 thru 34-7450220 with  
Altimatec IIIB Autopilot If Kit 760-776 installed  
Complete Kit P/N PCKT200-10 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-11 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-074	Aileron Wing LH and RH
1	MC62701-076	Aileron Balance LH
1	MC62701-075	Aileron Balance RH
2	MC62701-093	Aileron/Rudder Interconnect Aft
2	MC62701-094	Aileron/Rudder Interconnect Fwd
2	MC62701-081	Rudder Forward
2	MC62701-072	Rudder Aft
2	MC62701-069	Rudder Trim Fwd
1	MC62701-070	Rudder Trim Aft
1	MC62701-078 <b>1</b>	Stabilator Forward LH
1	MC62701-037 <b>1</b>	Stabilator Forward RH
1	MC62701-079 <b>1</b>	Stabilator Aft Upper
1	MC62701-080 <b>1</b>	Stabilator Aft Lower
1	MC62701-077	Stab Trim Fwd RH
1	MC62701-073	Stabilator Trim Aft
1	MC62701-071	Flap
1	MC62701-097	Stab Trim Fwd LH (Autopilot)
2	MC62701-128	Interconnect

**PA34-200T**  
S/N 34-7570001 - 34-8170092  
For aircraft with Altimatec IIIB Autopilot  
Complete Kit P/N PCKT200T-01 (Manual Trim)  
Complete Kit P/N PCKT200T-02 (Electric Trim)  
Stabilator Kit P/N PCKT-STAB-12 **1**

Qty	Part Number	Location
2	MC62701-036	Aileron Forward LH and RH
2	MC62701-127	Aileron Wing LH and RH
1	MC62701-125	Aileron Balance LH

**Kit continues in next column**

**Continued from previous column**

Qty	Part Number	Location
1	MC62701-126	Aileron Balance RH
2	MC62701-081	Rudder Forward
1	MC62701-072	Rudder Aft
2	MC62701-069	Rudder Trim Control Forward
1	MC62701-070	Rudder Trim Control Aft
1	MC62701-078 <b>1</b>	Stabilator Forward LH
1	MC62701-037 <b>1</b>	Stabilator Forward RH
1	MC62701-129 <b>1</b>	Stabilator Aft Upper
1	MC62701-080 <b>1</b>	Stabilator Aft Lower
2	MC62701-077 <b>4</b>	Stab Trim Fwd LH and RH (Man)
1	MC62701-073	Stabilator Trim Aft
1	MC62701-071	Flap
1	MC62701-097 <b>3</b>	Stab Trim Fwd LH (Elec)(Autopilot)

**PA34-220T**  
S/N 34-8133001 thru 34-8633031,  
3433001 thru 3433172  
Complete Kit P/N PCKT220T-01  
Stabilator Kit P/N PCKT-STAB-12 **1**

Qty	Part Number	Location
2	MC62701-228	Aileron Forward LH and RH
2	MC62701-127	Aileron Wing LH and RH
1	MC62701-125	Aileron Balance LH
1	MC62701-126	Aileron Balance RH
2	MC62701-081	Rudder Forward
1	MC62701-072	Rudder Aft
2	MC62701-069	Rudder Trim Control Forward
1	MC62701-070	Rudder Trim Control Aft
1	MC62701-078 <b>1</b>	Stabilator Forward LH
1	MC62701-037 <b>1</b>	Stabilator Forward RH
1	MC62701-129 <b>1</b>	Stabilator Aft Upper
1	MC62701-080 <b>1</b>	Stabilator Aft Lower
2	MC62701-077 <b>4</b>	Stab Trim Fwd LH and RH (Man)
2	MC62701-073	Stabilator Trim Aft
1	MC62701-071	Flap
1	MC62701-097	Stab Trim Fwd LH (Elec)(Autopilot)

- 1** Stabilator kits to assist with Piper AD2013-02-13 include cables designated with **1** plus 2 each MS21251-B5S Barrels and 10 each MS21256-1 Locking Clips.
- 2** Included in kits for manual trim aircraft only.
- 3** Included in kits for electric trim aircraft only.
- 4** Kits for electric trim aircraft include only one of this part number.
- 5** Kits for electric trim aircraft include two of this part number.

### General Piper Cable Notes: Corrosion Protection

All Piper cables are coated with a modified MIL-PRF-16173 compound. It provides additional corrosion protection beyond the standard MIL-SPEC rust preventive oil. This provides both exceptional wear resistance and corrosion protection for many years.



# Flight Control System

## Flight Control Cables - Beechcraft



**Models 19, 23 and 24 Musketeer, Sport, Sundowner**

A23-19, 19A, M19A, B19, 23, A23, A23A, B23, C23, A23-24, A24

Part Number	Location
MCNAS30245-2053	Stabilator Tab
MCNAS31424-0870	Stabilator
MCNAS31424-0934	Rudder Aft LH
MCNAS31424-1152	Stabilator
MCNAS31424-1242	Rudder Fwd RH
MCNAS31425-0820	Stabilator
MCNAS31425-0931	Rudder Aft RH
MCNAS31425-1220	Rudder Fwd LH
MCNAS31425-1411	Stabilator/Elevator Fwd
MCNAS31426-1170	Aileron RH
MCNAS31427-1131	Aileron
MCNAS31427-1370	Aileron LH

**Model 24 Musketeer, Sierra**  
A24R, B24R, C24R

Part Number	Location
MCNAS30245-2053	Stabilator Tab
MCNAS31424-0870	Stabilator
MCNAS31424-0934	Rudder Aft LH
MCNAS31424-1242	Rudder Fwd RH
MCNAS31424-1340	Stabilator
MCNAS31425-0820	Stabilator
MCNAS31425-0931	Rudder Aft RH
MCNAS31425-1220	Rudder Fwd LH
MCNAS31425-1345	Stabilator
MCNAS31426-1170	Aileron RH
MCNAS31427-1180	Aileron
MCNAS31427-1370	Aileron LH

**Model 33 Debonair and Bonanza**  
35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, F33, G33

Part Number	Location
MC33-524000-17	Elevator Fwd
MC33-524000-47	Elevator Tab
MC33-524000-61	Elevator Down
MC33-524001-1	Elevator Tab
MC35-524314	Aileron
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MC36-524000-29	Elevator Tab RH
MC36-524000-31	Elevator Tab LH
MCNAS30266-3242	Elevator Tab
MCNAS30422-0255	Aileron
MCNAS30426-0603	Aileron
MCNAS30434-1520	Elevator Up
MCNAS30435-0564	Elevator
MCNAS30435-1325	Rudder Fwd
MCNAS30466-0173	Aileron
MCNAS31237-0790	Elevator Tab

Note 1: For model 35-33 S/N CD-1 thru CD-224, CD-233, CD234, CD236, CD-241, CD246 thru CD-250 only.

Note 2: For model 35-33 only.

Note 3: Not required for model 35-33.

Note 4: For models 35-B33, 35-C33, 35-C33A s/n CE-1 thru CE-27, and E33 only.

Note 5: For model 35-A33 only.

Note 6: Not required for models F33 or G33.

**Model 33 Debonair and Bonanza**

F33A

Part Number	Location
MC002-524028-23	Elevator Tab
MC33-524000-61	Elevator Down
MC33-524028	Elevator Tab
MC33-524029	Elevator Down
MC35-524314	Aileron
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MC36-524000-29	Elevator Tab RH
MC36-524000-31	Elevator Tab LH
MCNAS30422-0255	Aileron
MCNAS30426-0603	Aileron
MCNAS30434-1520	Elevator Up
MCNAS30435-0564	Elevator
MCNAS30435-1321	Rudder Fwd
MCNAS30435-1325	Rudder Fwd
MCNAS30466-0173	Aileron
MCNAS31237-0204	Elevator Tab
MCNAS31237-0284	Elevator Tab
MCNAS31237-0520	Elevator Tab
MCNAS31237-0534	Elevator Tab
MCNAS31237-0790	Elevator

Note 1: CE-678 thru CE-1791

Note 2: CE-290 thru CE-315

Note 3: CE-316 thru CE-510

Note 4: CE-316 thru CE-1791

Note 5: CE-290 thru CE-510

Note 6: CE-511 thru CE-677

Note 7: CE-511 thru CE-1791

**Model 33 Debonair and Bonanza**

F33C

Part Number	Location
MC33-524000-61	Elevator Down
MC35-524314	Aileron
MC35-524314-22	Aileron Fuselage
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MC36-524000-29	Elevator Tab RH
MC36-524000-31	Elevator Tab LH
MCNAS30422-0255	Aileron
MCNAS30426-0603	Aileron
MCNAS30435-0564	Elevator
MCNAS30435-1325	Rudder Fwd
MCNAS30466-0173	Aileron
MCNAS30537-0647	Aileron Aft
MCNAS30537-0667	Aileron Fwd
MCNAS31237-0790	Elevator

Note 1: CJ-26 thru CJ-128

Note 2: CJ-129 thru CJ-179

**Model 35 Bonanza**

35

Part Number	Location
MC35-524004	Elevator Fwd
MCNAS30227-0590	Tab Actuating
MCNAS30266-3500	Elevator Trim Tab Fwd
MCNAS30266-3636	Elevator Trim Tab Fwd
MCNAS30422-0256	Aileron Fwd LH
MCNAS30424-0397	Aileron Center LH
MCNAS30425-0082	Elevator Aft
MCNAS30425-0100	Rudder Aft RH
MCNAS30425-0106	Rudder Aft LH
MCNAS30433-0255	Rudder Aft
MCNAS30436-0197	Elevator Aft
MCNAS305-24-0514	Aileron Lower RH
MCNAS305-25-0546	Cable
MCNAS305-34-0514	Cable
MCNAS305-34-0640	Cable
MCNAS305-35-0546	Cable
MCNAS305-35-0672	Cable
MCNAS31414-1875	Rudder Fwd
MCNAS31415-0152	Aileron Aft LH
MCNAS31415-0472	Aileron Aft RH

Note 1: Not required for S/N D-1 thru D-14.

**Model 35 Bonanza**

A35 (All except D-15001), B35, C35, D35, E35, F35, G35 (All except D-15002)

Part Number	Location
MC35-524004	Elevator Fwd
MC35-524314	Aileron
MC35-524385	Elevator Fwd
MC36-521011-3	Aileron Outbrd Balance
MC36-521011-1	Aileron Outboard Control
MCNAS30327-0590	Tab Actuating
MCNAS30266-3500	Elevator Trim Tab Fwd
MCNAS30266-3636	Elevator Trim Tab Fwd
MCNAS30422-0256	Aileron Fwd LH
MCNAS30424-0610	Aileron Center RH
MCNAS30425-0082	Elevator Aft
MCNAS30425-0100	Rudder Aft RH

**Model 35 Bonanza**

H35, J35, K35, M35, N35, P35

Part Number	Location
MC35-524314	Aileron
MC35-524382	Elevator Tab Aft
MC35-524385	Elevator Forward
MC35-524651-1	Elevator
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MCNAS30327-0605	Elevator Trim
MCNAS30266-3506	Elevator Trim Tab
MCNAS30327-0581	Elevator Trim
MCNAS30327-0587	Elevator Trim
MCNAS30327-0597	Elevator Trim
MCNAS30422-0255	Aileron
MCNAS30425-0100	Rudder Aft RH
MCNAS30425-0082	Elevator Aft
MCNAS30425-0106	Rudder Aft LH
MCNAS30426-0603	Aileron
MCNAS30433-0247	Rudder
MCNAS30433-0255	Rudder Aft
MCNAS30435-2087	Elevator
MCNAS30436-0197	Elevator Aft
MCNAS30466-0173	Aileron
MCNAS31414-1871	Rudder Fwd
MCNAS31514-1871	Rudder Fwd

Note 1: For models H35, J35 and K35 only.

Note 2: For model P35 only.

Note 3: For models K35, M35, N35 and P35 only.

Note 4: For models H35 and J35 only.

Note 5: For models N35 and P35 only.

**Model 35 Bonanza**

S35 (All except D-7140), V35, V35TC, V35A, V35A-TC, V35B, V35B-TC

Part Number	Location
MC1781-2	Elevator Trim
MC35-524314	Aileron
MC35-524382	Elevator Tab Aft
MC35-524651-1	Elevator
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MCNAS30266-3950	Elevator Trim
MCNAS30266-3954	Trim Tab
MCNAS30277-1156	Elevator Trim
MCNAS30327-0581	Elevator Trim
MCNAS30327-0587	Elevator Trim
MCNAS30327-0597	Elevator Trim
MCNAS30327-0605	Elevator Trim
MCNAS30422-0255	Aileron
MCNAS30425-0082	Elevator Aft
MCNAS30425-0106	Rudder Aft LH
MCNAS30426-0603	Aileron
MCNAS30433-0247	Rudder
MCNAS30435-2087	Elevator
MCNAS30436-0197	Elevator Aft
MCNAS30466-0173	Aileron
MCNAS31514-1871	Rudder Fwd or Tab

Note 1: Replaces: (1) NAS302-77-1156 Cable, (2) 35-524288 Stop Screw, (2) 35-524287 Stop Nut.

Note 2: For models S35, V35, V35A, V35A-TC, V35TC only.

Note 3: For models V35B and V35B-TC only.

Note 4: Includes all models listed and S35 s/n D-7140.

**Model 36 Bonanza**

36

Part Number	Location
MC35-524314-12	Aileron Fuselage
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MC36-524000-23	Elevator Fwd
MC36-524000-29	Elevator Tab RH
MC36-524000-31	Elevator Tab LH
MCNAS30426-0703	Aileron LH
MCNAS30434-1624	Elevator Up
MCNAS30435-0564	Elevator
MCNAS30435-1425	Rudder Fwd LH & RH
MCNAS30466-0173	Aileron
MCNAS31237-0534	Elevator Tab

**Model 36 Bonanza**

A36

Part Number	Location
MC002-524028-21	Elevator Tab
MC002-524028-25	Elevator Tab
MC002-524028-9	Elevator Tab
MC106-524019-47	Aileron Tab
MC106-524019-55	Aileron Tab
MC106-524019-63	Aileron Tab
MC106-524019-9	Chain, Trim Control
MC106-524020-57	Elevator Tab
MC106-524020-7	Chain, Trim Control
MC106-524020-73	Elevator Tab
MC106-524020-77	Chain, Elevator Tab
MC106-524031-1	Aileron Tab
MC106-524031-11	Aileron Tab
MC106-524031-9	Aileron Tab
MC106-524043-5	Aileron Aft RH
MC106-524043-7	Aileron Fwd LH & RH
MC106-524044-19	Aileron
MC106-524044-3	Aileron
MC106-524045-5	Aileron
MC106-524046-7	Elevator Tab Nose Down
MC106-524046-9	Elevator Tab Nose Up
MC106-524049-1	Elevator Up Fwd
MC106-524049-9	Elevator Down Fwd
MC106-524050-1	Elevator Up Aft
MC106-524050-3	Elevator Down Aft
MC106-524051-5	Rudder LH
MC106-524051-7	Rudder RH
MC131378-25CL	Connecting Link 25-1
MC35-524314-12	Aileron Fuselage
MC36-521011-1	Aileron Aft
MC36-521011-3	Aileron Fwd
MC36-524000-23	Elevator Fwd
MC36-524000-29	Elevator Tab RH
MC36-524000-31	Elevator Tab LH
MC36-524000-63	Elevator Tab RH
MC36-524000-65	Elevator Tab RH
MC36-524000-67	Elevator Tab RH

Continues on next page

Partial model eligibility

Cable/Chain Assembly





# Flight Control System

## Flight Control Cables - Beechcraft



**Continued from previous page**

Part Number	Location	Note
MC36-524000-69	Elevator Tab LH	Note 5
MC36-524000-71	Elevator Tab LH	Note 5
MC36-524000-73	Elevator Tab LH	Note 5
MC45-526011-7	Chain, Trim Control	Note 1
MCNAS30422-0255	Aileron	Note 4
MCNAS30426-0703	Aileron LH	Note 6
MCNAS30426-1064	Aileron LH	Note 7
MCNAS30434-1624	Elevator Up	Note 4
MCNAS30435-0564	Elevator	Note 4
MCNAS30435-1421	Rudder Fwd LH & RH	Note 8
MCNAS30435-1425	Rudder Fwd LH & RH	Note 9
MCNAS30435-1696	Rudder Fwd RH	Note 10
MCNAS30435-1703	Rudder Fwd LH	Note 10
MCNAS30466-0173	Aileron	Note 6
MCNAS30537-0647	Aileron Aft	Note 11
MCNAS30537-0667	Aileron Fwd	Note 11
MCNAS30566-1035	Aileron	Note 7
MCNAS31237-0204	Elevator Tab	Note 1
MCNAS31237-0284	Elevator Tab	Note 12
MCNAS31237-0520	Elevator Tab	Note 10
MCNAS31237-0534	Elevator Tab	Note 13

Note 1: E-938 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 2: E-1946, E-2104, E-2111 thru E-3635

Note 3: E-185 thru E-571, E-926 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 4: E-185 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 5: E-1946, E-2104, E-2111 thru E-3629, E-3631 thru E-3635

Note 6: E-185 thru E-925

Note 7: E-926 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 8: E-302 thru E-571

Note 9: E-185 thru E-301

Note 10: E-572 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 11: E-185 thru E-571, E-926 thru E-1945, E-1947 thru E-2103, E-2105 thru E-2110

Note 12: E-572 thru E-937

Note 13: E-185 thru E-571

**Model 36 Bonanza**

A36TC

Part Number	Location	Note
MC002-524028-21	Elevator Tab	Note 2
MC002-524028-25	Elevator Tab	Note 2
MC002-524028-9	Elevator Tab	Note 2
MC131378-25CL	Connecting Link 25-1	Note 2
MC35-524314-12	Aileron Fuselage	Note 2
MC36-521011-1	Aileron Aft	Note 2
MC36-521011-3	Aileron Fwd	Note 2
MC36-524000-23	Elevator Fwd	Note 2
MC36-524000-29	Elevator Tab RH	Note 2
MC36-524000-31	Elevator Tab LH	Note 2
MC45-526011-7	Chain, Trim Control	Note 2
MCNAS30422-0255	Aileron	Note 2
MCNAS30426-1064	Aileron LH	Note 2
MCNAS30434-1624	Elevator Up	Note 2
MCNAS30435-0564	Elevator	Note 2
MCNAS30435-1696	Rudder Fwd RH	Note 2
MCNAS30435-1703	Rudder Fwd LH	Note 2
MCNAS30537-0647	Aileron Aft	Note 2
MCNAS30537-0667	Aileron Fwd	Note 2
MCNAS30566-1035	Aileron	Note 2
MCNAS31237-0204	Elevator Tab	Note 2
MCNAS31237-0520	Elevator Tab	Note 2

**Model 36 Bonanza**

B36TC (EA-242, EA-273 thru EA-388 except EA-320)

Part Number	Location	Note
MC002-524028-21	Elevator Tab	Note 2
MC002-524028-25	Elevator Tab	Note 2
MC002-524028-9	Elevator Tab	Note 2
MC131378-25CL	Connecting Link 25-1	Note 2
MC35-524314-12	Aileron Fuselage	Note 2
MC36-521011-1	Aileron Aft	Note 2
MC36-521011-3	Aileron Fwd	Note 2
MC36-524000-23	Elevator Fwd	Note 2
MC36-524000-29	Elevator Tab RH	Note 2
MC36-524000-31	Elevator Tab LH	Note 2
MC45-526011-7	Chain, Trim Control	Note 2
MCNAS30422-0255	Aileron	Note 2
MCNAS30426-1064	Aileron LH	Note 2
MCNAS30434-1624	Elevator Up	Note 2
MCNAS30435-0564	Elevator	Note 2
MCNAS30435-1696	Rudder Fwd RH	Note 2
MCNAS30435-1703	Rudder Fwd LH	Note 2
MCNAS30537-0647	Aileron Aft	Note 2
MCNAS30537-0667	Aileron Fwd	Note 2

**Continued in next column**

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Part Number	Location	Note
MCNAS30566-1035	Aileron	Note 1
MCNAS31237-0204	Elevator Tab	Note 1
MCNAS31237-0520	Elevator Tab	Note 1

**Model 36 Bonanza**

B36TC (EA-320, EA-389 and On), G36

Part Number	Location	Note
MC106-524019-47	Aileron Tab	Note 2
MC106-524019-55	Aileron Tab	Note 2
MC106-524019-63	Aileron Tab	Note 2
MC106-524019-9	Chain, Trim Control	Note 2
MC106-524020-57	Elevator Tab	Note 2
MC106-524020-7	Chain, Trim Control	Note 2
MC106-524020-73	Elevator Tab	Note 2
MC106-524020-77	Chain, Elevator Tab	Note 2
MC106-524031-1	Aileron Tab	Note 2
MC106-524031-11	Aileron Tab	Note 2
MC106-524031-9	Aileron Tab	Note 2
MC106-524043-11	Aileron Aft LH	Note 2
MC106-524043-5	Aileron Aft RH	Note 2
MC106-524043-7	Aileron Fwd LH & RH	Note 2
MC106-524044-19	Aileron	Note 2
MC106-524044-3	Aileron	Note 2
MC106-524045-5	Aileron	Note 2
MC106-524046-7	Elevator Tab Nose Down	Note 2
MC106-524046-9	Elevator Tab Nose Up	Note 2
MC106-524049-1	Elevator Up Fwd	Note 2
MC106-524049-9	Elevator Down Fwd	Note 2
MC106-524050-1	Elevator Up Aft	Note 2
MC106-524050-3	Elevator Down Aft	Note 2
MC106-524051-5	Rudder RH	Note 2
MC106-524051-7	Rudder LH	Note 2
MC131378-25CL	Connecting Link 25-1	Note 2
MC36-524000-63	Elevator Tab RH	Note 2
MC36-524000-65	Elevator Tab RH	Note 2
MC36-524000-67	Elevator Tab RH	Note 2
MC36-524000-69	Elevator Tab LH	Note 2
MC36-524000-71	Elevator Tab LH	Note 2
MC36-524000-73	Elevator Tab LH	Note 2

**Model 50 Twin Bonanza**

D50 (DH-144 thru DH-154), D50B, D50C, D50E, E50, F50, H50, J50, G50 (GH-95 thru GH-119)

Part Number	Location	Note
MCNAS30635-1172	Aileron	Note 2

**Model 55**  
95-55, 95-A55

Part Number	Location	Note
MCNAS30435-0564	Elevator	Note 2
MCNAS30444-3507	Elevator	Note 3
MCNAS30534-0652	Aileron Fwd	Note 4
MCNAS30534-1594	Rudder Fwd RH	Note 4
MCNAS30534-1600	Rudder Fwd LH	Note 4
MCNAS305-35-0672	Cable	Note 4
MCNAS30555-1043	Aileron	Note 5
MCNAS31237-0302	Elevator Tab Down	Note 5
MCNAS31237-0323	Elevator Tab Up	Note 5

**Model 55**

95-B55

Part Number	Location	Note
MCNAS30277-4040	Rudder Tab	Note 1
MCNAS30435-0564	Elevator	Note 2
MCNAS30435-0568	Elevator Aft	Note 3
MCNAS30435-0570	Elevator Aft	Note 4
MCNAS30444-3507	Elevator	Note 5
MCNAS30534-0652	Aileron Fwd	Note 6
MCNAS30534-1594	Rudder Fwd RH	Note 6
MCNAS30534-1600	Rudder Fwd LH	Note 6
MCNAS305-35-0672	Cable	Note 6
MCNAS30555-1043	Aileron	Note 6
MCNAS31237-0222	Elevator Trim	Note 7
MCNAS31237-0302	Elevator Tab Down	Note 7
MCNAS31237-0323	Elevator Tab Up	Note 7

Note 1: TC-1608 thru TC-2456  
 Note 2: TC-371 thru TC-2404  
 Note 3: TC-2405 thru TC-2430  
 Note 4: TC-2431 thru TC-2456  
 Note 5: TC-371 thru TC-1607  
 Note 6: TC-2024 thru TC-2456  
 Note 7: TC-371 thru TC-2023

**Model 55**

95-C55

Part Number	Location	Note
MCNAS30435-0564	Elevator	Note 1
MCNAS30444-3511	Elevator	Note 1
MCNAS30534-0652	Aileron Fwd	Note 1
MCNAS30534-1594	Rudder Fwd RH	Note 1
MCNAS30534-1600	Rudder Fwd LH	Note 1
MCNAS305-35-0672	Cable	Note 1
MCNAS30555-1043	Aileron	Note 1

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Part Number	Location	Note
MCNAS31237-0302	Elevator Tab Down	Note 1
MCNAS31237-0323	Elevator Tab Up	Note 1

Note 1: Not required for s/n TC-350.

**Model 55**

D55

Part Number	Location	Note
MCNAS30435-0564	Elevator	Note 1
MCNAS30444-3511	Elevator	Note 1
MCNAS30534-0652	Aileron Fwd	Note 1
MCNAS305-35-0672	Cable	Note 1
MCNAS30534-1594	Rudder Fwd RH	Note 1
MCNAS30534-1600	Rudder Fwd LH	Note 1
MCNAS30555-1043	Aileron	Note 1
MCNAS31237-0302	Elevator Tab Down	Note 1
MCNAS31237-0323	Elevator Tab Up	Note 1
MCNAS31237-0843	Electric Trim	Note 1

Note 1: TE-633 thru TE-76

**Model 55**

E55

Part Number	Location	Note
MCNAS30277-4040	Rudder Tab	Note 1
MCNAS30435-0564	Elevator	Note 2
MCNAS30435-0568	Elevator Aft	Note 3
MCNAS30435-0570	Elevator Aft	Note 4
MCNAS30444-3511	Elevator	Note 5
MCNAS30534-0652	Aileron Fwd	Note 5
MCNAS30534-1594	Rudder Fwd RH	Note 5
MCNAS30534-1600	Rudder Fwd LH	Note 5
MCNAS305-35-0672	Cable	Note 5
MCNAS30555-1043	Aileron	Note 5
MCNAS31237-0222	Elevator Trim	Note 6
MCNAS31237-0302	Elevator Tab Down	Note 7
MCNAS31237-0323	Elevator Tab Up	Note 7
MCNAS31237-0843	Electric Trim	Note 7

Note 1: TE-938, TE-943 thru TE-1201  
 Note 2: TE-768 thru TE-1192  
 Note 3: TE-1193 thru TE-1196  
 Note 4: TE-1197 thru TE-1201  
 Note 5: TE-768 thru TE-937, TE-939 thru TE-942  
 Note 6: TE-1087 thru TE-1201  
 Note 7: TE-768 thru TE-1086

**Model 56 Baron**

56TC, A56TC

Part Number	Location	Note
MCNAS30277-4040	Rudder Tab	Note 1
MCNAS30435-0564	Elevator	Note 1
MCNAS30534-0652	Aileron Fwd	Note 1
MCNAS305-35-0672	Cable	Note 1
MCNAS30555-1043	Aileron	Note 1
MCNAS31237-0302	Elevator Tab Down	Note 1
MCNAS31237-0342	Elevator Tab Up	Note 1

**Model 58 Baron**

58

Part Number	Location	Note
MC106-524049-1	Elevator Up Fwd	Note 1
MC106-524049-9	Elevator Down Fwd	Note 1
MC106-524050-1	Elevator Up Aft	Note 1
MC106-524050-3	Elevator Down Aft	Note 1
MCNAS30277-4240	Rudder Tab	Note 2
MCNAS30435-0564	Elevator	Note 3
MCNAS30435-0568	Elevator Aft	Note 4
MCNAS30435-0570	Elevator Aft	Note 5
MCNAS30534-0652	Aileron Fwd	Note 2
MCNAS30534-1696	Rudder RH	Note 2
MCNAS30534-1703	Rudder LH	Note 2
MCNAS305-35-0672	Cable	Note 2
MCNAS30555-1043	Aileron	Note 2
MCNAS31237-0222	Elevator Trim	Note 6
MCNAS31237-0302	Elevator Tab Down	Note 7
MCNAS31237-0523	Elevator Trim Up	Note 7
MCNAS31237-0843	Electric Trim	Note 7

Note 1: TH-1389, TH-1396 thru TH-1214  
 Note 2: TH-1 thru TH-1388, TH-1390 thru TH-1395  
 Note 3: TH-1 thru TH-1274  
 Note 4: TH-1275 thru TH-1314  
 Note 5: TH-1315 thru TH-1388, TH-1390 thru TH-1395  
 Note 6: TH-790 thru TH-1388, TH-1390 thru TH-1395  
 Note 7: TH-1 thru TH-789

**Model 58 Baron**

58P

Part Number	Location	Note
MC106-524049-1	Elevator Up Fwd	Note 1
MC106-524049-9	Elevator Down Fwd	Note 1
MCNAS30435-0564	Elevator	Note 2
MCNAS30534-1696	Rudder RH	Note 2
MCNAS30534-1703	Rudder LH	Note 2
MCNAS30555-1043	Aileron	Note 2

Note 1: TJ-436, TJ-444 thru TJ-497  
 Note 2: TJ-3 thru TJ-435, TJ-437 thru TJ-443

**Partial model eligibility**  
**Cable/Chain Assembly**



Model 58 Baron 58TC		
Part Number	Location	
MC106-524049-1	Elevator Up Fwd	Note 1
MC106-524049-9	Elevator Down Fwd	Note 1
MCNAS30277-4240	Rudder Tab	Note 2
MCNAS30435-0564	Elevator	Note 3
MCNAS30534-1696	Rudder RH	Note 3
MCNAS30534-1703	Rudder LH	Note 4
MCNAS30555-1043	Aileron	Note 4
Note 1: TK-147, TK-151		
Note 2: TK-53 thru TK-146, TK-148 thru TK-150		
Note 3: Not required for s/n TK-151.		
Note 4: Not required for s/n TK-147 or TK-151.		

Model 60 Duke B60		
Part Number	Location	
MCNAS30534-0652	Aileron Fwd	
MCNAS305-35-0672	Cable	

Model 76 Duchess 76		
Part Number	Location	
MCNAS31424-1152	Stabilator	
MCNAS31424-1242	Rudder Fwd RH	
MCNAS31425-1220	Rudder Fwd LH	
MCNAS31425-1411	Stabilator/Elevator Fwd	

Model 90 King Air 65-90, 65-A90, C90, C90A, C90B(LJ-1288 thru LJ-1305, LJ-1307 thru LJ-1315, LJ-1317, LJ-1319, LJ-1367 thru LJ-1755), C90GT, E90		
Part Number	Location	
MCNAS30635-1172	Aileron	

Model 90 King Air F90		
Part Number	Location	
MCNAS30266-1814	Elevator Tab	
MCNAS30277-1700	Elevator Tab	
MCNAS30635-1172	Aileron	

Model 100 King Air 100, A100, B100		
Part Number	Location	
MC99-524015	Aileron Tab	
MCNAS30635-1172	Aileron	

Model 200 King Air 200, 200C, 200CT, 200T (All except BT-28), B200, B200C, B200CT, B200T		
Part Number	Location	
MC101-524088-1	Aileron Tab	Note 1, 2
MC1781-1	Elevator Tab	Note 1, 2
MCNAS30266-1814	Elevator Tab	Note 2
MCNAS30277-1700	Elevator Tab	Note 2
MCNAS30635-1172	Aileron	
Note 1: Replaces: (1) NAS302-67-6643 Cable, (2) 35-524288 Stop Screw, (2) 35-524287 Stop Nut.		
Note 2: Model 200 s/n BB-39 thru BB-912.		

Model 300 King Air 300, 300LW		
Part Number	Location	
MCNAS30266-1814	Elevator Tab	
MCNAS30267-6643	Elevator Tab	
MCNAS30277-1700	Elevator Tab	
MCNAS30624-1176	Aileron	
MCNAS30635-1172	Aileron	

Model 300 King Air B300, B300C(L) (All except FN-1)		
Part Number	Location	
MC101-524088-1	Aileron Tab	
MCNAS30266-1814	Elevator Tab	
MCNAS30277-1700	Elevator Tab	
MCNAS30624-1176	Aileron	
MCNAS30635-1172	Aileron	

Model 1900 Airliner 1900, 1900C(L) (UB-1 thru UB-74)		
Part Number	Location	
MCNAS30266-1312	Elevator Tab	
MCNAS30277-1307	Elevator	
MCNAS30624-1176	Aileron	
MCNAS30635-1172	Aileron	

Model 45 and T-34 A45 (T-34A), D45 (T-34B)		
Part Number	Location	
MCNAS305-34-0640	Aileron	
MCNAS305-35-0672	Aileron	
MCNAS305-25-0546	Aileron	
MCNAS305-35-0546	Aileron	
MCNAS305-24-0514	Aileron	
MCNAS305-34-0514	Aileron	
MCNAS305-34-0826	Elevator	Note 2
MCNAS305-35-0576	Elevator	
MCNAS305-34-0996	Elevator	Note 2
MCNAS305-35-0564	Elevator Aft	
MCNAS305-34-1010	Elevator Fwd	Note 1

Continued in next column

Continued from previous column		
Part Number	Location	
MCNAS305-34-0840	Elevator Fwd	Note 1
MCNAS304-34-1271	Rudder	
MCNAS304-35-0712	Rudder	
MCNAS304-33-0311	Rudder	Note 3
MCNAS304-34-1116	Rudder	Note 3
Note 1: For model A45 (T-34A) only.		
Note 2: For model D45 (T-34B) only.		
Note 3: For aircraft with Beechcraft Kit 45-322A installed.		

Model T-34 T-34C, 34C, T-34C-1		
Part Number	Location	
MCNAS305-34-0640	Aileron	
MCNAS305-35-0672	Aileron	
MCNAS305-25-0546	Aileron	Note 1
MCNAS305-35-0546	Aileron	Note 1
MCNAS305-24-0514	Aileron	Note 1
MCNAS305-34-0514	Aileron	Note 1
MC104-524023-3	Aileron Trim	
MC104-524023-5	Aileron Trim	
MCNAS305-35-0996	Elevator	
MCNAS305-34-0826	Elevator	
MCNAS305-34-0564	Elevator	
MCNAS305-35-0576	Elevator	
MC104-524020-9	Elevator Trim	
MC104-524020-11	Elevator Trim	
MC104-524046-3	Elevator Trim	
MC104-524046-5	Elevator Trim	
MC104-524021-3	Rudder Trim	
MC104-524021-5	Rudder Trim	
MC104-524022-3	Rudder Trim	
MC104-524022-7	Rudder Trim	
Note 1: For model T-34C only.		

Partial model eligibility

**General Beechcraft Cable Notes:**  
**Corrosion Protection**  
 All Beechcraft cables are made from galvanized steel cable and coated with a modified MIL-PRF-16173 compound. This is the same process used on Beechcraft original cables. It provides additional corrosion protection beyond the standard MIL-SPEC rust preventive oil. This provides both exceptional wear resistance and corrosion protection for many years.

**MC6057 Cable Stop**

- Improved for more consistent holding strength.
- Used on the assist step cable on 35, A35 and C35 Beech Bonanzas.
- One McFarlane MC6057 cable stop replaces both Beechcraft 35-524287 nut and 35-524288 screw part numbers.
- Also included on select cable assemblies as required.



### Rudder Pedals for Cessna Aircraft

Completely New Rudder Pedal Part Number AP2000-01

- Less money and longer life!
- Bronze bushings at the pivot points resist wear and vibration for longer pedal life.
- Precision cast heat treated aluminum alloy.
- Powder coat finish for durability and corrosion protection.
- FAA-PMA direct replacement for Cessna P/N1460320-1.



Bronze bushings for a longer life!

Manufactured by Alexander Productions

### Rudder Pedal Bar

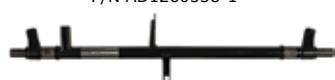
Avoid risk of costly damage during assembly **New!**  
 P/Ns AD1260558-1 (LH) and AD1260558-2 (RH)

Each bar includes 2 ea. P/N S1003-43A bearings and 1 ea. P/N 1260419-1 tube pre-assembled. This avoids damage commonly caused while pressing the bearings during installation.

FAA-PMA



P/N AD1260558-1



P/N AD1260558-2

Aircraft Model	AD1260558-1	AD1260558-2
210-5 (205), 210-5A (205A)	•	•
206, U206G, TU206G	•	•
206H, T206H	•	•
207A, T207A	•	•
210M, N, R, T210M, N, R, P210	•	•

### Rudder Pedal Shaft

P/N AD0411778-2 **New!**  
 FAA-PMA

1/2 of Cessna Price!



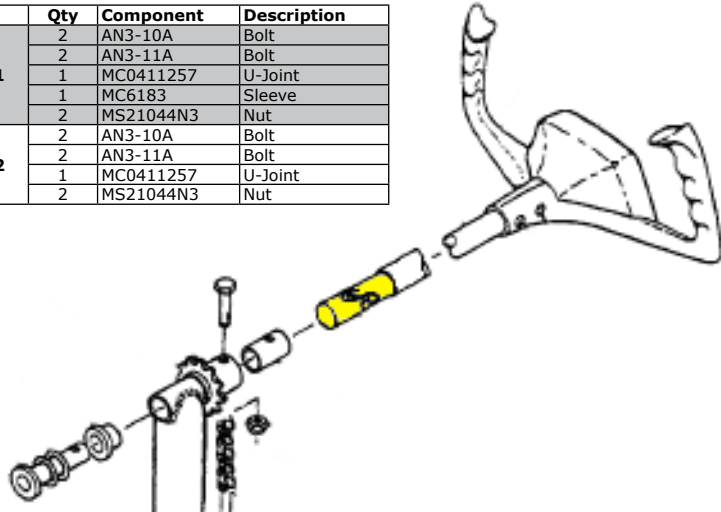
Aircraft Model
140A
150, 150A, F150, FA150
152, A152, F152, FA152
170, 170A, B
172, 172A, B, C, D, E, F, G, H, I, J, K, L, M, N, P
F172D, E, F, G, H, I, J, K, L, M, N, P
172RG, P172, R172E, F, G, H, K, FP172, FR172
175, 175A, B
180, 180A, B, C, D, E, F, G, H, J, K
182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R
A182, F182, FR182, R182, TR182
185, 185A, B, C, D, E, A185E, F
190, 190A, 195, 195A, B
210-5 (205), 210-5A (205A)
206, U206, U206A, B, C, D, E
P206, P206A, B, C, D, E
207, T207
210, 210A, B, C, D, E, F, G, H, J, K, T210G, H, J

## Control Yoke Universal Joint and Protective Sleeve for Cessna Aircraft

**Save over 35%**

- Eliminates slack for precise and responsive control.
- Replace worn or corroded joints.
- Available separately or in convenient kits.

Kit P/N	Qty	Component	Description
UJC-KT-1	2	AN3-10A	Bolt
	2	AN3-11A	Bolt
	1	MC0411257	U-Joint
	1	MC6183	Sleeve
UJC-KT-2	2	MS21044N3	Nut
	2	AN3-10A	Bolt
	2	AN3-11A	Bolt
	1	MC0411257	U-Joint
	2	MS21044N3	Nut



## Aileron Bellcrank Bushing

**P/N MC0422280**

- Use on all single engine Cessna
- High strength alloy steel
- Replace when replacing aileron cables
- 4 each included in all applicable Cessna cable kits



## Hardware

**Over 100 certified aircraft control cable hardware part numbers in STOCK at discounted prices!!**

- Balls, BM Series
- Balls, Single Shank, MS20664 Series
- Balls, Double Shank, MS20663 Series
- Barrels, Brass, MS21251 Series
- Bushings, AN111 Series
- Locking Clips, MS21256 Series
- Shackles, AN115 Series
- Sleeves, Tin and Zinc, MS51844 Series
- Straps, Eye and Fork NAS1435 Series
- Terminals, Eye, MS20668 Series
- Terminals, Fork, MS20667 Series
- Terminals, Stud, MS21259 Series
- Terminals, Turnbuckle MS21260 Series
- Thimbles, AN100 Series
- Turnbuckles, Clevis End, MS21252 Series
- Turnbuckles, Eye end for Pin, MS21254 Series
- Turnbuckles, Eye end for wire rope, MS21255 Series
- Special Terminals



**McFarlane now manufactures NAS1435 and DOD QPL-781 qualified terminals**

Model	Serial Number	P/N
120, 140, 140A	All	UJC-KT-2
150	All	UJC-KT-2
150A,B,C,D,E,F,G,H,I,J,K,L,M A150K,L,M, F150F,G,H,I,J,K,L,M FA150K,L,M, FRA150L,M	All	UJC-KT-1
152, A152, F152, FA152	All	UJC-KT-1
170, 170A,B,	All	UJC-KT-2
172, 172A,B,C,D, F172D, FP172, P172D	All	UJC-KT-2
172E,F,G,H,I,J,K,L,M,N,P,Q,R,S, T-41A, 172RG, F172E,F,G,H,I,J,K,L,M,N,P FR172E,F,G,H,I,J,K, R172K	All	UJC-KT-1
R172E,F,G,H	All	UJC-KT-2
175, 175A,B,C	All	UJC-KT-2
180, 180A,B,C,D,E,F,G	All	UJC-KT-2
180H	18051446 thru 18052089	UJC-KT-2
	18052090 thru 18052284	UJC-KT-1
	18052285 thru 18052384	UJC-KT-2
	18052385 thru 18052770	UJC-KT-1
180K	All	UJC-KT-2
182, 182A,B,C,D	All	UJC-KT-2
185, 185A,B,C,D,E	All	UJC-KT-2
A185E	185-0968 thru 185-1570	UJC-KT-2
	185-1571 thru 18502090	UJC-KT-1
A185F	18502091 thru 18502310 except 18502300	UJC-KT-2
	18502311 thru 18504448 and 18502300	UJC-KT-1
	210, 210A	All



## Bulk Cable

**Great prices on galvanized or stainless steel!**

All cable meets MIL-DTL-83420 certification. Manufacturer certification is provided with every order.

- Direct mill purchases let us sell for less!
- Prepackaged in 100 and 500 foot lengths.
- Custom lengths available.

Diameter	Cable	Galvanized	Stainless
1/16	1X19	•	
	7X7	•	•
	7X19	•	•
1/8	1X19	•	
	7X19	•	•
1/4	7X19	•	•
	1X19	•	•
3/32	7X7	•	•
	7X19	•	•
3/16	7X19	•	•
	7X19	•	•
5/32	7X19	•	•
	7X19	•	•



## Custom Fabricated Cables

DOD certified custom cable assemblies can be fabricated to specification MIL-DTL-6117, or certified to your special specifications.

- Pre-stretched and proof loaded to MIL-DTL-5688.
- Manufactured using the same materials and attention to quality as our FAA-PMA products. We cannot provide FAA-PMA approval for custom cables.
- Pricing is based on material usage determined upon receipt of specifications or a pattern. Our sales team can provide a quote at that time.
- One to three day service for most orders.
- We are a DOD QML-6117 certified cable supplier

Download custom forms at <http://www.mcfarlaneaviation.com/Reference> or call to have one faxed.

## Parking Brake Cables for Cessna Aircraft

**Don't forget to replace worn out parking brake cables!**

Locate your make, model and serial number on the previous pages to find the correct part number for your aircraft.





FAA-PMA Approved

**Control Yoke Universal Joint Kits for Piper Aircraft  
Helps comply with AD 2010-15-10**

**Save over 60% off Piper price. Just our reamer saves you \$100 !!**

- Individual parts also available separately.
- Eliminates free motion for precise and responsive control.
- Replace worn or corroded joints.

AD 2010-15-10 and Piper service bulletin 1197C requires inspection of the connection between the control yoke u-joint and the shaft on the forward (engine) end of the joint. This inspection is a convenient time to replace worn out u-joints. McFarlane has kits including the u-joint, shaft, taper pins, taper reamer, drill bit and other hardware to help comply with this AD, all at a fraction of the cost of buying the parts from Piper.



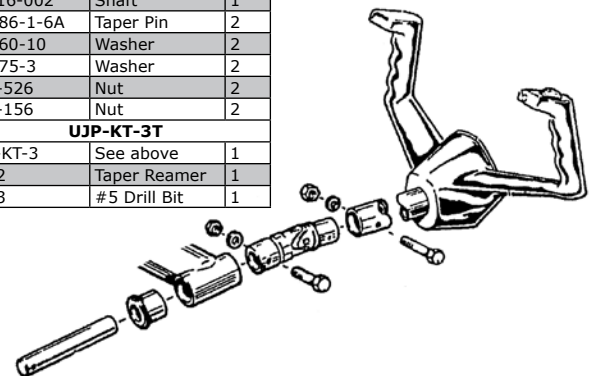
Universal Joint Kits for Piper Aircraft			
Model	Serial Number	Left (Pilot)	Right (Copilot)
PA-28-140	28-20001 thru 28-20160	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28-140	28-20161 thru 28-21845	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-140	28-21846 thru 28-21930	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-140	28-21931 thru 28-21934	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-140	28-21935 thru 28-25400	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-140	28-25401 thru 28-7725290	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-150	28-1 thru 28-1760, 28-03, 28-1760A	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28-150	28-1761 thru 28-3377	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-150	28-3378 thru 28-4377	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-151	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-160	28-1 thru 28-1760, 28-03, 28-1760A	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28-160	28-1761 thru 28-3377	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-160	28-3378 thru 28-4377	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-161	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-180	28-671 thru 28-1760, 28-03	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28-180	28-1761 thru 28-3377	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-180	28-3378 thru 28-4377	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-180	28-4378 thru 28-7505260, 28-E13	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-181	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-201T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-235	28-10001 thru 28-10486	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28-235	28-10487 thru 28-10719	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28-235	28-10720 thru 28-11039	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28-235	28-11040 thru 28-7710089, 28E-11	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28-236	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28R-180	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28R-200,201	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28R-201T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28RT-201	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28RT-201T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-28S-160	28-1 thru 28-1760, 28-1760A	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28S-180	28-671 thru 28-1760	UJP-KT-3 or 3T	UJP-KT-5 or 5T
PA-28S-180	28-1761 thru 28-3377	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-28S-180	28-3378 thru 28-4377	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-28S-180	28-4378 thru 28-7105234	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32-260	32-1 thru 32-600, 32-03, 32-04	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-32-260	32-601 thru 32-690	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-32-260	32-691 thru 32-7800008	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32-300	32-15, 32-21	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-32-300	32-40000 thru 32-40415	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-32-300	32-40416 thru 32-7940290	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32-301	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32-301T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32R-300	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32R-301,301T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32RT-300	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32RT-300T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-32S-300	32S-15	UJP-KT-4 or 4T	UJP-KT-5 or 5T
PA-32S-300	32S-40000 thru 32S-40415	UJP-KT-1 or 1T	UJP-KT-2 or 2T
PA-32S-300	32S-40416 thru 32S-7240137	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-34-200,200T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-34-220T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T
PA-44-180,180T	All	UJP-KT-2 or 2T	UJP-KT-2 or 2T

Partial model eligibility

**New! CA62834-000 - Save over \$250**

Part Number	Description	Qty
<b>UJP-KT-1</b>		
CA62834-802	Universal Joint	1
62716-006	Shaft	1
AN386-1-6A	Taper Pin	2
AN960-10	Washer	2
AN975-3	Washer	2
404-526	Nut	2
404-156	Nut	2
<b>UJP-KT-1T</b>		
UJP-KT-1	See above	1
6532	Taper Reamer	1
6533	#5 Drill Bit	1
<b>UJP-KT-2</b>		
CA62834-802	Universal Joint	1
62716-007	Shaft	1
AN386-1-6A	Taper Pin	2
AN960-10	Washer	2
AN975-3	Washer	2
404-526	Nut	2
404-156	Nut	2
<b>UJP-KT-2T</b>		
UJP-KT-2	See above	1
6532	Taper Reamer	1
6533	#5 Drill Bit	1
<b>UJP-KT-3</b>		
CA62834-000	Universal Joint	1
62716-002	Shaft	1
AN386-1-6A	Taper Pin	2
AN960-10	Washer	2
AN975-3	Washer	2
404-526	Nut	2
404-156	Nut	2
<b>UJP-KT-3T</b>		
UJP-KT-3	See above	1
6532	Taper Reamer	1
6533	#5 Drill Bit	1

Part Number	Description	Qty
<b>UJP-KT-4</b>		
CA62834-000	Universal Joint	1
62716-004	Shaft	1
AN386-1-6A	Taper Pin	2
AN960-10	Washer	2
AN975-3	Washer	2
404-526	Nut	2
404-156	Nut	2
<b>UJP-KT-4T</b>		
UJP-KT-4	See above	1
6532	Taper Reamer	1
6533	#5 Drill Bit	1
<b>UJP-KT-5</b>		
CA62834-000	Universal Joint	1
62716-007	Shaft	1
AN386-1-6A	Taper Pin	2
AN960-10	Washer	2
AN975-3	Washer	2
404-526	Nut	2
404-156	Nut	2
<b>UJP-KT-5T</b>		
UJP-KT-5	See above	1
6532	Taper Reamer	1
6533	#5 Drill Bit	1



**Maintenance Tip:**  
How do I know if my universal joint needs to be replaced?  
A universal joint attaches to each control yoke shaft behind the instrument panel. Replacement of the universal joint is required if any free motion or rust around the joint pivots is detected or if the joint fails inspection required by AD 2010-15-10.  
What can I do if I cannot separate the shaft from the universal joint?  
We can help! McFarlane offers a service to remove stuck shafts. Call for details.

**U-Joint Taper Pin Removal Tool**

Part number **TOOL107**

- Save time and money.
- Makes removal of stuck pins easy.
- Prevents damage from hammering behind the panel.
- Compact to get in tight places.
- Heat treated 4140 Alloy Steel.



**Witness Hole Drill Fixture**

Piper part number **766-585**

A convenient tool to drill a witness hole in Piper universal joints per Piper service bulletin 1197C. Saves time! Avoids disassembly of U-joint and shaft.



## Stabilator Trim Kits for Piper Aircraft

Save time and money with convenient kits!

- Shafts and barrels manufactured by PMA Products, Inc.
- Bearing manufactured by Piper

Model	Part Number
PA28-140, 150, 151, 160, 161, 180, 181	PSTAB-KT-1
PA28-235, 236	PSTAB-KT-1
PA28-201T S/N 28-7921001 to 28-7921095	PSTAB-KT-1
PA28R-180, 200, 201, 201T	PSTAB-KT-1
PA32, PA32R	PSTAB-KT-1
PA34-200 S/N 34-7350185 and up	PSTAB-KT-2
PA34-200T, PA34-220T	PSTAB-KT-2

### PSTAB-KT-1 Contains

- (1) CA65246-100 Trim Shaft (includes instructions and STC)
- (1) CA63530-100 Trim Barrel (includes instructions and STC)
- (2) 452-413 Bearing

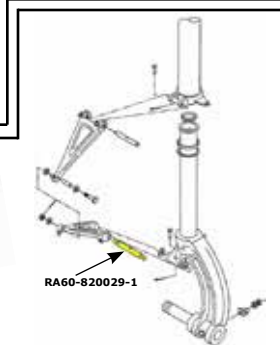
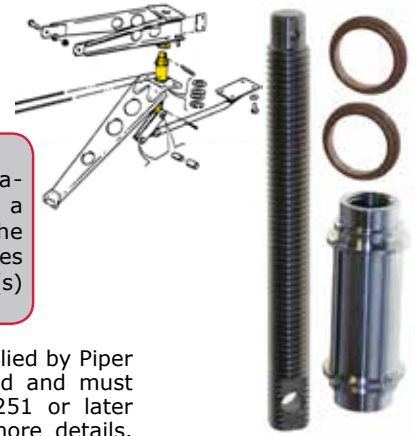
### PSTAB-KT-2 Contains

- (1) CA65246-002 Trim Shaft
- (1) CA96596-002 Trim Barrel
- (2) 452-413 Bearing

### Maintenance Tip:

When replacing the stabilator trim barrel, it is normally a good time to also replace the stabilator trim cables. See pages 89-93 to find the correct cable(s) for your aircraft.

**Note:** Some trim barrels supplied by Piper were incorrectly manufactured and must be replaced. See Piper SB1251 or later revised service bulletin for more details. This service bulletin is not applicable to P/N CA63530-100 manufactured by PMA Products, Inc., however P/N CA63530-100 may be used to replace trim barrels affected by the service bulletin.



## Tow Pin for Beechcraft Aircraft

Part Number **RA60-820029-1**

Eligible model series:

35-A33,35-B33,35-C33,35-C33A,E33,F33,G33,E33A,F33A,F33C,N35,P35,  
S35,V35,V35A,V35B,36,A36,A36TC,B36TC,95-55,95-A55,95-B55,95-C55,  
D55,E55,58,56TC,A56TC,58TC,58P,B60

Manufactured by Rapco



## Stabilizer Jack Screw Actuator Kit for Cessna 180, 182 and 185 Aircraft

### Improved Material for Extreme Corrosion Resistance

McFarlane replaces the original steel components with duplex stainless steel (even better than Monel) components for a long life even in a harsh saltwater environment.

### Improved Bearing

Precision bearing reduces free play and features extra low temperature grease for easy turning at low temperatures.

### Improved Strength and Reliability

The original Cessna actuators use a 3/32" roll pin to attach the sprockets and retaining collars to the screw bars. These pins are critical as the front of the stabilizer would detach from the airframe if they failed. Although the original roll pins are technically strong enough, the original design is marginal in strength. To provide a more robust design, McFarlane redesigned the sprocket and retaining collar to allow the use of a 5/32" roll pin. This more than doubles the strength of the design. The screw and barrel are match machined for a precision fit.

### Convenient Kit

Stabilizer jack-screw kit part number 1111 is an FAA-PMA/STC approved kit to replace all wear components for the stabilizer actuator assemblies for many Cessna 180, 180A-K, 182, 182A-D, 185, 185A-E, A185E-F aircraft. Part number 1111 includes all parts required to replace the following Cessna parts in both the left-hand and right-hand actuators:

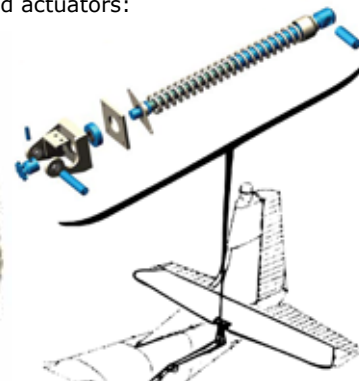
- 0310332 Sprocket
- 0712500-11 Screw-Bar
- 0712500-13 Barrel
- 0712500-7 Collar-Retainer
- 0712502 Bushing Eccentric
- 0712500-10 Bushing
- MS20201KP6A or AN201KP6A Bearing
- NAS561-3-8 Roll Pin
- 0432138-3 or S2295-25-185 Chain
- 0712500-19 Plug

### Replacement Components

Part number 1111 contains the following replacement components:

- 6463 Stainless Steel Roller Chain
- 6464 Connecting Link
- 6458 Eccentric Upper Bushing
- 6459 Lower Bushing
- 6460 Bearing
- 6461 Spring Pin (can only be used as a replacement with McFarlane P/N 1111)

**Trim Actuator Boot** - P/N U0712500-18 available separately



### Maintenance Tip:

If the stabilizer is sluggish or jams, clean the barrel and screw jack and re-apply a coating of MIL-PRF-23827 low temperature grease. Complete instructions can be found at [www.mcfarlaneaviation.com/ICA](http://www.mcfarlaneaviation.com/ICA)

## Pulleys and Pulley Kits for Cessna Aircraft

McFarlane stocks all pulleys required for Cessna single engine aircraft. Our MCS378 series pulleys replace the AN, NAS and S378 series pulleys commonly used on the Cessna aircraft. Pulley kits are available that contain all of the pulleys and cotter pins required for one aircraft.



### Improved Bearings

All MCS378 series FAA-PMA pulleys used in McFarlane pulley kits feature high quality sealed precision ball bearings. This style of bearing is far superior to low grade, open seal bearings used in the cheap Cessna S378-(L) light duty series pulleys that they replace.

**McFarlane Pulley Oil does not dry out and get sticky. See page 200**

### Available Pulley Part Numbers

1660433-1, 1660433-2, AN210-1B, AN210-2B, AN210-3B, AN210-4B, AN210-5B, AN220-1, AN220-2, AN220-3, AN220-4, MCS378-1, MCS378-2, MCS378-3, MCS378-4, MCS378-5, MS20219-1, MS20219-2, MS20219-3, MS20219-4, MS20219-5, MS20219A1, MS20219A2, MS20219A3, MS20219A4, MS20219A5 MS20220-1, MS20220-2, MS20220-3, MS20220-4, MS24566-1B, MS24566-2B, MS24566-3B, MS24566-4B, MS24566-5B, NAS383-1, NAS383-2, NAS383-3, NAS383-4, S1052-1, S1710-1, S378-4S, S394

### Approved Replacements for Cessna Pulleys

Cessna Model/Series	Part Number*	Replaces Cessna Part Number*
120,140,140A,150,A150, F150,FA150,FRA150,152,A152,F152,FA152,170,172,F172, FR172, 172RG,FP172,P172,R172,175,177,177RG,F177RG,180,182,A182,F182,FR182,R182, TR182,T182,185,A185,188, A188,A-A188,T188,205,206,P206,TU206,T206,TP206,U206,207, T207,208,210,P210,T210,T303,310,T310,320,335,336,337,F337,P337,FP-337,T337,O-2, 340,401,402,404,411,414,421,425,441,500,501	MCS378-1	S378-1 and S378-1L
	MCS378-2	S378-2, A124, AN210-2B and NAS383-2
	MCS378-3	S378-3, S378-3L, A130, AN210-3B, BB-208 and NAS383-3
	MCS378-4	S378-4, A114, AN210-4B and NAS383-4
	MCS378-5	S378-5

\*Replaces the listed Cessna part numbers in the specific aircraft illustrated parts catalogs. Installer must verify applicability prior to installation.

### Available Cotter Pin Part Numbers

MS24665-132, MS24665-134, MS24665-138, MS24665-140, MS24665-143, MS24665-144, MS24665-155, MS24665-170, MS24665-24, MS24665-281, MS24665-283, MS24665-285, MS24665-287, MS24665-289, MS24665-292, MS24665-295, MS24665-353, MS24665-355, MS24665-357, MS24665-360, MS24665-5, MS24665-7, MS24665-71.



Pulleys and cotter pins available as convenient kits. Pulleys can be purchased separately. Cotter Pins can be purchased in quantities of 10 or 25 each depending on part number.

Model	Serial Number	Kit P/N	Quantity per Kit (Applicable cotter pins also included)					Other Pulleys
			MCS378-1	MCS378-2	MCS378-3	MCS378-4	MCS378-5	
120/140	8000-15075	PULL-KT-01	8	2	10	10	1	
140A	15200-15724	PULL-KT-02		2	8	12	1	(8) NAS383-1
150	17001-59018	PULL-KT-03	8	13	10	12	3	
150A,B,C	15059019-15060087	PULL-KT-04	8	13	10	10	3	
150D,E	15060088-15061083	PULL-KT-05	8	13	10	4	1	(6) MS20220-2
150E	15061084-15061532	PULL-KT-06	8	13	10	4		(6) MS20220-2
150F,G	15061533-15067198	PULL-KT-07	10	10	13	4		(7) MS20220-2
150H	15067199-15069308	PULL-KT-08	14	10	13	4		(7) MS20220-2
150J	15069309-15071128	PULL-KT-09	14	8	13	4		(7) MS20220-2
150K,L	15071129-15074399	PULL-KT-10	14	8	13	4		(7) MS20220-2
A150K,L	A15000001-A1500387	PULL-KT-10	14	8	13	4		(7) MS20220-2
F150K,L	F15000530-F15000943	PULL-KT-10	14	8	13	4		(7) MS20220-2
FA150K,L	FA1500001-FA1500120	PULL-KT-10	14	8	13	4		(7) MS20220-2
FRA150L	FRA1500121-FRA1500211	PULL-KT-10	14	8	13	4		(7) MS20220-2
150L	15074400-15074661	PULL-KT-11	14	10	11	4		(7) MS20220-2
A150L	A1500388-A1500415	PULL-KT-11	14	10	11	4		(7) MS20220-2
F150L	F1500944-F15001062	PULL-KT-11	14	10	11	4		(7) MS20220-2
150L,M	15074662-15079405	PULL-KT-12	14	10	12	4		(7) MS20220-2
FRA150L,M	FRA1500212-FRA1500336	PULL-KT-12	14	10	12	4		(7) MS20220-2
152	15279406-15286033	PULL-KT-13	14	10	12	4		(7) MS20220-2
A152	A1520735-A1521049	PULL-KT-13	14	10	12	4		(7) MS20220-2
F152	F15201429-F015201952	PULL-KT-13	14	10	12	4		(7) MS20220-2
FA152	FA1520337-FA1520387	PULL-KT-13	14	10	12	4		(7) MS20220-2
170	18000-18729	PULL-KT-14		4	7	16	2	(8) NAS383-1
170A	18730-20266	PULL-KT-15			13	14		(8) NAS383-1
170B	20267-27169	PULL-KT-16	8	11	9	22	4	(8) NAS383-1
172A,B,C	28000-17249544	PULL-KT-17	8	11	10	18	4	
172D	17249545-17250572	PULL-KT-18	9	11	10	18	4	
F172D	F1720001-F1720018	PULL-KT-18	9	11	10	18	4	
FP172	FP1720001-FP1720003	PULL-KT-18	9	11	10	18	4	
P172	P17257120-P17257188	PULL-KT-18	9	11	10	18	4	
172E	17250573-17251822	PULL-KT-19	9	11	10	16	4	
F172E	F1720019-F1720085	PULL-KT-19	9	11	10	16	4	
172F,G,H,I,K,L,M	17251823-17263458	PULL-KT-20	13	2	10	16	3	(2) MS20220-1
F172F,G,H,K,L,M	F1720086-F17201234	PULL-KT-20	13	2	10	16	3	(2) MS20220-1
FR172E,F,G,H,J	FR1720001-FR1720590	PULL-KT-21	12	2	10	16	3	(2) MS20220-1
172M,N,P	17263459-17276673	PULL-KT-22	13	2	10	16	3	(2) MS20220-1, (1) S1710-1
F172M,N,P	F17201235-F17202254	PULL-KT-22	13	2	10	16	3	(2) MS20220-1, (1) S1710-1
172R,S	17280001 & On	PULL-KT-19	9	11	10	16	4	
175A,B,C	55001-17557119	PULL-KT-17	8	11	10	18	4	
180A,B	30000-50661	PULL-KT-24	5	11	7	20	4	
180C,D,E	50662-18051183	PULL-KT-25	5	12	7	20	4	
180F,G	18051184-18051445	PULL-KT-26	5	12	7	20	4	(1) MS20220-2
180H	18051446-18051607	PULL-KT-27	5	12	7	22	4	(1) MS20220-2
180H	18051608-18052206	PULL-KT-28	5	12	7	22	1	(1) MS20220-2

Partial model eligibility

Eligibility continued on next page



# Flight Control System Pulleys for Cessna Aircraft



Continued from previous page			Quantity per Kit (Applicable cotter pins also included)						
Model	Serial Number	Kit P/N	MCS378-1	MCS378-2	MCS378-3	MCS378-4	MCS378-5	S394	Other Pulleys
180H, J, K	18052207-18052384	PULL-KT-83	5	12	7	22	1	8	(1) MS20220-2, (1) S1710-1
180J, K	18052385-18053203	PULL-KT-29	5	11	7	22	1	8	(2) MS20220-2, (1) S1710-1
182, A, B	33000-52358	PULL-KT-34	5	11	7	20	1	4	
182C, D	52359-18053598	PULL-KT-35	5	12	7	20	1	4	
182E	18253599-18253929	PULL-KT-36	6	1	6	10		3	(6) MS20220-2, (1) S1052-1
182E, F, G, H, J, K	18253930-18258505	PULL-KT-85	6	3	6	10		3	(6) MS20220-2, (1) S1052-1
182L, M, N, P	18258506-18260445	PULL-KT-37	6	3	6	8		3	(8) MS20220-2, (1) S1052-1
182N	18260446-18260669	PULL-KT-38	8	3	6	8		3	(8) MS20220-2, (1) S1052-1
182N, P	18260670-18262465	PULL-KT-86	8	3	6	8		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
182P, Q, R	18262466-18268615	PULL-KT-39	13	3	6	8		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
T182	18267716-18268615	PULL-KT-39	13	3	6	8		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
182S, 182T	18208001 & On	PULL-KT-80	13	3	6	8		3	(9) MS20220-2, (1) S1052-1, (1) S1710-1
F182P, Q	F18200001-F18200169	PULL-KT-39	13	3	6	8		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
FR182	FR18200001-FR18200070	PULL-KT-40	3	1	16	16		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
R182, TR182	R18200001-R18202041	PULL-KT-40	3	1	16	16		3	(8) MS20220-2, (1) S1052-1, (1) S1710-1
T182	T1820801 & On	PULL-KT-80	13	3	6	8		3	(9) MS20220-2, (1) S1052-1, (1) S1710-1
185, A, B, C	1850001-1850776	PULL-KT-30	5	12	7	20	1	4	(1) MS20220-2
185D	1850777-1850967	PULL-KT-31	5	12	7	22	1	4	(1) MS20220-2
185E, A185E	1850968-18501901	PULL-KT-32	5	12	7	22	1	8	(1) MS20220-2
A185E, F	18501902-18502310	PULL-KT-84	5	12	7	22	1	8	(1) MS20220-2, (1) S1710-1
A185F	18502311-18504448	PULL-KT-33	5	11	7	22	1	8	(2) MS20220-2, (1) S1710-1
188, A, A188	1880001-1880317	PULL-KT-41	2	5		6		4	(4) 1660433-1, (8) MS20220-1, (2) MS20220-2, (1) MS20220-4
188B, A188B	1880318-1880572	PULL-KT-42	4	5		6		4	(4) 1660433-1, (8) MS20220-1, (2) MS20220-2, (1) MS20220-4
188A, A188A	1880573-1880707	PULL-KT-43	4	5		6		6	(4) 1660433-1, (8) MS20220-1, (2) MS20220-2, (1) MS20220-4, (1) S1052-1
188A, B, B1, A188A, B1	1880708-18801348 18800967T-188001348T	PULL-KT-44	4	5		6		6	(4) 1660433-2, (10) MS20220-2, (1) MS20220-4, (2) S1052-1
188B, A188B	18801349-18801402 18801349T-18801402T	PULL-KT-45	4	5		6		6	(4) 1660433-2, (1) MS20220-1, (10) MS20220-2, (1) MS20220-4, (2) S1052-1
188B, A188B	18801403-18803856 18801403T-18803968T	PULL-KT-46	4	5		6		6	(4) 1660433-2, (1) MS20220-1, (10) MS20220-2, (1) MS20220-4, (2) S1052-1, (1) S1710-1
T188C	T18803297T-18803968T	PULL-KT-6	4	5		6		6	(4) 1660433-2, (1) MS20220-1, (10) MS20220-2, (1) MS20220-4, (2) S1052-1, (1) S1710-1
210-5 (205), 210-5A (205A)	2050001-2050577	PULL-KT-47	11	3	6	22		3	(5) MS20220-2, (1) S1052-1
206, U206, A, B	2060001-U2060914	PULL-KT-48	7	4	6	26		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1
TU206A, B	2060438-U2060914	PULL-KT-48	7	4	6	26		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1
P206, TP206A, B	P2060001-P2060419	PULL-KT-48	7	4	6	26		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1
U206, TU206C, D, E	U2060915-U20601667	PULL-KT-49	10	4	6	26		6	(4) MS20220-1, (11) MS20220-2, (1) S1052-1
P206, TP206C, D, E	P2060420-P2060647	PULL-KT-49	10	4	6	26		6	(4) MS20220-1, (11) MS20220-2, (1) S1052-1
U206E, TU206E	U20601668-U20601700	PULL-KT-50	10	4	6	26		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1, (1) S1710-1
U206F, TU206F	U20601701-U20601874	PULL-KT-51	8	4	6	26		6	(4) MS20220-1, (11) MS20220-2, (1) S1052-1, (1) S1710-1
U206F, TU206F	U20601875-U20602199	PULL-KT-52	7	4	6	26		6	(4) MS20220-1, (11) MS20220-2, (1) S1052-1, (1) S1710-1
U206F, TU206F	U20602200-U20602579	PULL-KT-53	7	2	6	26		6	(4) MS20220-1, (9) MS20220-2, (2) MS20220-4, (1) S1052-1, (1) S1710-1
U206F, G, TU206F, G	U20602580-U20603798	PULL-KT-54	7	1	6	20		6	(4) MS20220-1, (9) MS20220-2, (2) MS20220-4, (1) S1052-1, (1) S1710-1
U206G, TU206G	U20603799-U20607020	PULL-KT-55	7		6	22		6	(4) MS20220-1, (8) MS20220-2, (2) MS20220-4, (1) S1052-1, (1) S1710-1
206H	20608001 & On	PULL-KT-56	7		6	18		4	(4) MS20220-1, (8) MS20220-2, (2) MS20220-4, (1) S1052-1, (1) S1710-1
T206H	T20608001 & On	PULL-KT-56	7		6	18		4	(4) MS20220-1, (8) MS20220-2, (2) MS20220-4, (1) S1052-1, (1) S1710-1
207, T207	20700001-20700204	PULL-KT-57	12	1	4	21		6	(4) MS20220-1, (11) MS20220-2, (7) S1052-1, (2) S1710-1
207, T207	20700205-20700227	PULL-KT-58	12	1	4	21		6	(4) MS20220-1, (11) MS20220-2, (7) S1052-1, (3) S1710-1
207, T207	20700228-20700267	PULL-KT-59	9	1	4	21		6	(4) MS20220-1, (9) MS20220-2, (7) S1052-1, (3) S1710-1
207, T207A, T207, T207A	20700268-20700390	PULL-KT-60	9	1	6	15		6	(4) MS20220-1, (9) MS20220-2, (2) MS20220-4, (5) S1052-1, (3) S1710-1
207, T207A, T207, T207A	20700391-20700788	PULL-KT-61	9	1	6	17		6	(4) MS20220-1, (8) MS20220-2, (2) MS20220-4, (5) S1052-1, (3) S1710-1
210, A	57001-21057840	PULL-KT-62	5	4	11	22		3	(9) MS20220-2, (2) S1052-1
210B, C	21057841-21058220	PULL-KT-63	7	4	6	28		3	(4) MS20220-2, (2) S1052-1
210D, E, F	21058221-21058818	PULL-KT-64	7	3	6	28		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1
T210F	T2100001-T2100197	PULL-KT-64	7	3	6	28		6	(4) MS20220-1, (9) MS20220-2, (1) S1052-1
210G	21058819-21058936	PULL-KT-65	7		6	28		2	(12) MS20220-2, (2) MS20220-3, (8) S1710-1
T210G	T2100198-T2100307	PULL-KT-65	7		6	28		2	(12) MS20220-2, (2) MS20220-3, (8) S1710-1
210H	21058937-210859030	PULL-KT-66	11		6	28		2	(12) MS20220-2, (2) MS20220-3, (8) S1710-1
T210H	T2100308-T2100378	PULL-KT-66	11		6	28		2	(12) MS20220-2, (2) MS20220-3, (8) S1710-1
210H	21059031-21059061	PULL-KT-67	11		6	28		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
T210H	T2100379-T2100392	PULL-KT-67	11		6	28		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
210J	21059062-21059199	PULL-KT-68	15		6	28		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
T210J	T2100393-T2100454	PULL-KT-68	15		6	28		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
210K, L	21059200-21060089	PULL-KT-69	14	1	7	26		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
210L, M, N	21060090-21064135	PULL-KT-71	12	1	7	28		2	(11) MS20220-2, (2) MS20220-3, (4) S1710-1
210N, T210N	21064136-21064897	PULL-KT-77	12	1	7	28		2	(11) MS20220-2, (6) MS20220-3, (5) S1710-1
210R, T210R	21064898-21065009	PULL-KT-78	8		7	28		2	(9) MS20220-2, (4) MS20220-3, (5) S1710-1
P210N	P21000001-P21000834	PULL-KT-81	12	1	7	28		2	(11) MS20220-2, (2) MS20220-3, (5) S1710-1
P210R	P21000835-P21000874	PULL-KT-82	8		7	28		2	(9) MS20220-2, (4) MS20220-3, (5) S1710-1

Partial model eligibility

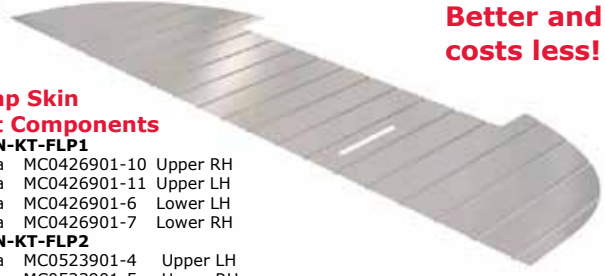
# Flight Control Surface Parts and Attaching Hardware

## Flap, Aileron, Rudder and Elevator Skins for Cessna Aircraft

### 73 Available Part Numbers - Expanded Eligibility!

- More precise corrugation spacing and shape
- Available as convenient kits or individually
- No pre-drilled holes to misalign
- Cut to shape to match the OEM skins
- Direct replacement - No STC required

**Rudder and Elevator Skins Now Available!**



**Better and costs less!**

#### Flap Skin Kit Components

##### SKN-KT-FLP1

- 1 ea MC0426901-10 Upper RH
- 1 ea MC0426901-11 Upper LH
- 1 ea MC0426901-6 Lower LH
- 1 ea MC0426901-7 Lower RH

##### SKN-KT-FLP2

- 1 ea MC0523901-4 Upper LH
- 1 ea MC0523901-5 Upper RH
- 1 ea MC0523901-6 Lower LH
- 1 ea MC0523901-7 Lower RH

##### SKN-KT-FLP3

- 2 ea MC0523901-201 Upper LH, RH
- 1 ea MC0523901-6 Lower LH
- 1 ea MC0523901-7 Lower RH

##### SKN-KT-FLP4

- 1 ea MC0523901-21 Upper LH
- 1 ea MC0523901-22 Upper RH
- 1 ea MC0523901-19 Lower LH
- 1 ea MC0523901-20 Lower RH

##### SKN-KT-FLP5

- 1 ea MC0523901-25 Upper LH
- 1 ea MC0523901-26 Upper RH
- 1 ea MC0523901-27 Lower LH
- 1 ea MC0523901-28 Lower RH

##### SKN-KT-FLP6

- 1 ea MC0523901-25 Upper Inbd LH
- 1 ea MC1220100-20 Upper Inbd RH
- 1 ea MC1220100-5 Upper Otbd LH
- 1 ea MC1220100-6 Upper Otbd RH
- 1 ea MC0523901-27 Lower Inbd LH
- 1 ea MC1220100-18 Lower Inbd RH
- 1 ea MC1220100-3 Lower Otbd LH
- 1 ea MC1220100-4 Lower Otbd RH

##### SKN-KT-FLP7

- 1 ea MC0523901-25 Upper Inbd LH
- 1 ea MC0523901-26 Upper Inbd RH
- 1 ea MC1220100-5 Upper Otbd LH
- 1 ea MC1220100-6 Upper Otbd RH
- 1 ea MC0523901-27 Lower Inbd LH
- 1 ea MC0523901-28 Lower Inbd RH
- 1 ea MC1220100-3 Lower Otbd LH
- 1 ea MC1220100-4 Lower Otbd RH

##### SKN-KT-FLP8

- 1 ea MC1220100-33 Upper Inbd LH
- 1 ea MC1220100-34 Upper Inbd RH
- 1 ea MC1220100-5 Upper Otbd LH
- 1 ea MC1220100-6 Upper Otbd RH
- 1 ea MC1220100-35 Lower Inbd LH
- 1 ea MC1220100-36 Lower Inbd RH
- 1 ea MC1220100-3 Lower Otbd LH
- 1 ea MC1220100-4 Lower Otbd RH

#### Rudder Skin Kit Components

##### SKN-KT-RUD1

- 1 ea MC0333000-4 Upper LH
- 1 ea MC0333000-5 Upper RH
- 1 ea MC0533000-4 Lower LH
- 1 ea MC0533000-5 Lower RH

##### SKN-KT-RUD2

- 1 ea MC0533000-20 Upper LH
- 1 ea MC0533000-21 Upper RH
- 1 ea MC0533000-4 Lower LH
- 1 ea MC0533000-5 Lower RH

##### SKN-KT-RUD3

- 1 ea MC0531001-8 LH
- 1 ea MC0531001-9 RH

##### SKN-KT-RUD4

- 1 ea MC0731000-13 LH
- 1 ea MC0731000-14 RH

##### SKN-KT-RUD5

- 2 ea MC0333000-4 LH
- 2 ea MC0333000-5 RH

#### Elevator Skin Kit Components

##### SKN-KT-ELEV1

- 1 ea MC0334100-3 Tab Upper
- 1 ea MC0334100-4 Tab Lower
- 1 ea MC0334100-5 Upper RH
- 1 ea MC0334100-6 Lower RH
- 1 ea MC0334200-3 Lower LH
- 1 ea MC0334200-4 Upper LH

##### SKN-KT-ELEV2

- 1 ea MC0534100-4 Upper LH
- 1 ea MC0534100-5 Lower LH
- 1 ea MC0534101-4 Lower RH
- 1 ea MC0534101-5 Upper RH

##### SKN-KT-ELEV3

- 1 ea MC0532001-36 Upper RH
- 1 ea MC0532001-37 Lower LH
- 1 ea MC0532001-38 Lower RH
- 1 ea MC0532001-39 Upper LH

##### SKN-KT-ELEV4

- 1 ea MC055044-1 Lower LH
- 1 ea MC055044-2 Lower RH
- 1 ea MC055044-3 Upper LH
- 1 ea MC055044-4 Upper RH

##### SKN-KT-ELEV5

- 2 ea MC0734600-4 Upper LH & Lower RH
- 2 ea MC0734600-9 Upper RH & Lower LH

##### SKN-KT-ELEV6

- 1 ea MC0734600-4 Upper LH
- 1 ea MC0734600-9 Lower LH
- 1 ea MC0734600-14 Lower RH
- 1 ea MC0734600-15 Upper RH

##### SKN-KT-ELEV7

- 1 ea MC1234600-5 Upper LH
- 1 ea MC1234600-6 Upper RH
- 1 ea MC1234600-7 Lower LH
- 1 ea MC1234600-8 Lower RH

#### Aileron Skin Kit Components

##### SKN-KT-AIL1

- 1 ea MC0523800-6 Upper Inbd LH
- 1 ea MC0523800-7 Upper Inbd RH
- 1 ea MC0523800-8 Upper Otbd LH
- 1 ea MC0523800-9 Upper Otbd RH
- 1 ea MC0523800-10 Lower Inbd LH
- 1 ea MC0523800-11 Lower Inbd RH
- 1 ea MC0523800-12 Lower Otbd LH
- 1 ea MC0523800-13 Lower Otbd RH

##### SKN-KT-AIL2

- 1 ea MC1624001-5 Upper Inbd LH
- 1 ea MC1624001-6 Upper Inbd RH
- 1 ea MC1624001-9 Upper Otbd LH
- 1 ea MC1624001-10 Upper Otbd RH
- 1 ea MC1624001-3 Lower Inbd LH
- 1 ea MC1624001-4 Lower Inbd RH
- 1 ea MC1624001-7 Lower Otbd LH
- 1 ea MC1624001-8 Lower Otbd RH

##### SKN-KT-AIL3

- 1 ea MC1220085-11 Upper LH
- 1 ea MC1220085-12 Upper RH
- 1 ea MC1220085-13 Lower LH
- 1 ea MC1220085-14 Lower RH

Model	Aileron Skin Kit	Flap Skin Kit	Rudder Skin Kit	Elevator Skin Kit
140A	SKN-KT-AIL1	N/A	N/A	N/A
150,A,B,C,D,E,F,G,H,J,K,L,M	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
A150K,L,M	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
F150F,G,H,J,K,L,M	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
FA150K,L,FRA150L,M	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
152,A152	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
F152 <sup>1</sup>	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
FA152 <sup>2</sup>	SKN-KT-AIL1	SKN-KT-FLP1	N/A	N/A
170, 170A	N/A	N/A	SKN-KT-RUD1	SKN-KT-ELEV1
170B	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD2	SKN-KT-ELEV2
172	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD3	SKN-KT-ELEV3
172A,B,C	SKN-KT-AIL1	SKN-KT-FLP2	N/A	SKN-KT-ELEV3
172D,E,F,G,H,I,K,L	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
172M,N,P,Q,T-41A	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
172R,S	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
172RG	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
F172D,E,F,G,H,,K,L,M,N,P	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
FP172	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
FR172E,F,G,H,J	SKN-KT-AIL1	SKN-KT-FLP3	N/A	N/A
FR172K	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
P172D	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
R172K	SKN-KT-AIL1	SKN-KT-FLP3	N/A	SKN-KT-ELEV4
175	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD3	SKN-KT-ELEV3
175A,B,C	SKN-KT-AIL1	SKN-KT-FLP2	N/A	SKN-KT-ELEV3
180,A,B,C,D,E	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD4	SKN-KT-ELEV5
180F,G,H,J	SKN-KT-AIL1	SKN-KT-FLP3	SKN-KT-RUD4	SKN-KT-ELEV5
180K	SKN-KT-AIL1	SKN-KT-FLP3	SKN-KT-RUD4	SKN-KT-ELEV5
182, 182A,B	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD4	SKN-KT-ELEV5
182C,D	SKN-KT-AIL1	SKN-KT-FLP2	N/A	SKN-KT-ELEV5
182E,F,G	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV6
182H,J,K,L,M,N,P,Q,R,S,T	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
A182J,K,L,N <sup>3</sup>	SKN-KT-AIL1	SKN-KT-FLP4	N/A	N/A
F182P,Q	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
FR182	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
R182 <sup>4</sup> ,TR182 <sup>4</sup>	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
T182	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
T182T	SKN-KT-AIL1	SKN-KT-FLP4	N/A	SKN-KT-ELEV7
185,A,B,C,D,E,A185E <sup>5</sup>	SKN-KT-AIL1	SKN-KT-FLP2	SKN-KT-RUD4	SKN-KT-ELEV5
A185E,F <sup>6</sup>	SKN-KT-AIL1	SKN-KT-FLP3	SKN-KT-RUD4	SKN-KT-ELEV5
188, 188A,B, A188, A188A,B	SKN-KT-AIL2	SKN-KT-FLP4	SKN-KT-RUD4	SKN-KT-ELEV6
T188C	SKN-KT-AIL2	SKN-KT-FLP4	SKN-KT-RUD4	SKN-KT-ELEV6
190,195,195A,B <sup>7</sup>	N/A	N/A	SKN-KT-RUD5	SKN-KT-ELEV1
190,195,195A,B <sup>8</sup>	N/A	N/A	SKN-KT-RUD5	N/A
205 (210-5), 205A (210-5A)	SKN-KT-AIL1	SKN-KT-FLP5	N/A	SKN-KT-ELEV6
206, U206, U206A,B	SKN-KT-AIL3	SKN-KT-FLP6	N/A	SKN-KT-ELEV7
U206C,D,E,F,G	SKN-KT-AIL3	SKN-KT-FLP6	N/A	N/A
TU206A,B	SKN-KT-AIL3	SKN-KT-FLP6	N/A	SKN-KT-ELEV7
TU206C,D,E,F,G	SKN-KT-AIL3	SKN-KT-FLP6	N/A	N/A
206H	SKN-KT-AIL3	SKN-KT-FLP7	N/A	N/A
P206, P206A,B	SKN-KT-AIL3	SKN-KT-FLP7	N/A	SKN-KT-ELEV7
P206C,D,E, TP206A,B,C,D,E	SKN-KT-AIL3	SKN-KT-FLP7	N/A	N/A
T206H	SKN-KT-AIL3	SKN-KT-FLP7	N/A	N/A
207,A,T207,A	SKN-KT-AIL3	SKN-KT-FLP8	N/A	N/A
210,A	SKN-KT-AIL1	SKN-KT-FLP2	N/A	N/A
210B <sup>9</sup>	SKN-KT-AIL1	SKN-KT-FLP4	N/A	N/A
210B <sup>10</sup>	SKN-KT-AIL1	SKN-KT-FLP5	N/A	N/A
210C	SKN-KT-AIL1	SKN-KT-FLP5	N/A	N/A
210D,E,F,T210F	SKN-KT-AIL3	SKN-KT-FLP7	N/A	N/A

<sup>1</sup> Approved S/N F15201429 thru F152201952

<sup>2</sup> Approved S/N FA1520337 thru FA1520387

<sup>3</sup> Approved S/N A182-0001 thru A182-0146

<sup>4</sup> Approved S/N All except R18201315

<sup>5</sup> Approved S/N 185-0001 thru A185-1167

<sup>6</sup> Approved S/N 18501168 thru 18504448

<sup>7</sup> Approved S/N 7004 thru 16083

<sup>8</sup> Approved S/N 16084 thru 16183

<sup>9</sup> Approved S/N 21057841 thru 21058003

<sup>10</sup> Approved S/N 21058004 thru 21058085

Unless otherwise noted, approval is for all serial numbers for each model listed.

Note: Elevator Tab skins only included in SKN-KT-ELEV1.

# Flight Control Surface Parts and Attaching Hardware

## Flap Track Wear Gauge for Cessna Aircraft

**Part Number 950**

Use to determine if a Cessna flap track is worn beyond service limits.



### Flap Track Wear Gauge Instructions

Run the gauge plug along each slot in each flap track while verifying that the gauge will not enter the slot. Reposition the flaps as required to gauge the entire length of each slot. If the gauge enters a slot at any point, the track is worn beyond service limits. Periodically verify the gauge diameter by measuring the gauge diameter with a calibrated micrometer.

**This gauge will work for all single engine Cessna aircraft except 140A, 170A and 195.**

## Flap Trailing Edge Stiffener for Cessna Aircraft

**New streamline shape and improved fit to reduce stress cracks**

**FAA-PMA! Logbook entry is all that is required.**

### What is the purpose of a flap trailing edge stiffener?

- Reinforce the flap trailing edge making it more resilient to hangar rash.
- Ensure a straight trailing edge. Without a stiffener, the trailing edge tends to have "wavy" appearance where the top and bottom skin rivet together.
- Reduce stress in the flap skins and prevent cracks around the rivets. Without a stiffener of the proper shape, the skin must abruptly bend where the top and bottom skins rivet together.
- Provide a blunt surface, thus preventing diamond shaped cut patterns on the foreheads of pilots and passengers.

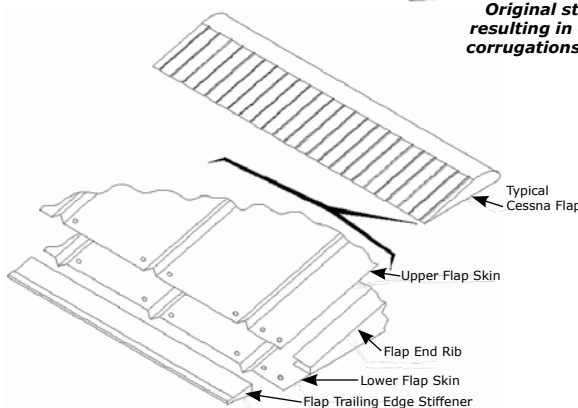
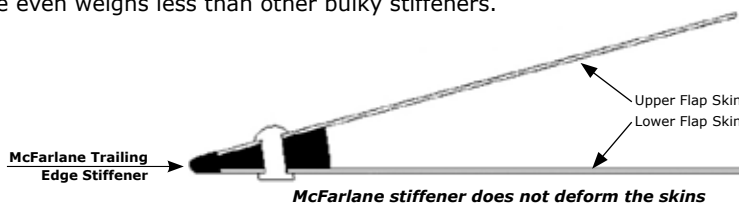
### New Improved Fit to Reduce Skin Stress

The new McFarlane stiffeners are accurately shaped to the same angle that the top and bottom skins come together to completely eliminate the bending stress due to riveting the skins together. This prevents stress concentrations in the skin corrugations and near the rivets making cracks less likely. McFarlane has improved the stiffener angle as compared to other brand of triangle stiffeners.

### New Streamline Shape

The new McFarlane design smoothly transitions from the skin surface to a blunt trailing edge without an unsightly bulb and resultant drag found on common trailing edge stiffeners. The new shape even weighs less than other bulky stiffeners.

Aircraft	Part Number
150, 150A,B,C,D,E,F,G,H,J,K,L,M	MC1741-79.5
A-150L, A-A150L, A150K,L,M	MC1741-79.5
F150F,G,H,J,K,L,M	MC1741-79.5
FA150K,L,M	MC1741-79.5
FRA150L,M	MC1741-79.5
152, A152, F152, FA152	MC1741-79.5
170B	MC1741-79.5
172, 172A,B,C,D,E,F,G,H,I,K,L,M,N,P,Q,R,S	MC1741-79.5
172RG	MC1741-79.5
F172D,E,F,G,H,K,L,M,N,P	MC1741-79.5
FP172	MC1741-79.5
FR172E,F,G,H,J,K	MC1741-79.5
P172D	MC1741-79.5
R172E,F,G,H,K	MC1741-79.5
175, 175A,B,C	MC1741-79.5
180, 180A,B,C,D,E,F,G,H,J,K	MC1741-79.5
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R,S,T	MC1741-79.5
F182P,Q	MC1741-79.5
FR182, R182, T182, T182T, TR182	MC1741-79.5
185, 185A,B,C,D,E, A185E,F	MC1741-79.5
188, 188A,B, A188, A188A,B, T188C	MC1741-79.5
(205) 210-5	MC1741-79.5
(205A) 210-5A	MC1741-79.5
206, 206H, T206H	MC1741-116.25
P206, P206A,B,C,D,E	MC1741-116.25
TP206A,B,C,D,E	MC1741-116.25
TU206A,B,C,D,E,F,G	MC1741-116.25
U206, U206A,B,C,D,E,F,G	MC1741-116.25
207, 207A, T207, T207A	MC1741-116.25
210, 210A,B,C	MC1741-79.5
210D,E,F	MC1741-116.25



## Aluminum Aileron Hinge for Cessna

**Part Number MC0523816-1**

- Selective fit, positive capture, stainless steel pin
- No looseness in the hinge to start vibration wear
- No cotter keys to fail
- Anodized for better corrosion and wear resistance
- Replaces part number 0523816-1 and 0523807

### Aircraft

150,152,170,172,175,180,182,185,205,210 (All serial numbers)



## Flap Wear Buttons

**Part Number S1093-1**

- Prevents flap leading edge skin wear
- Nylon construction
- Available in 30 packs

Manufactured by Cessna



## Flap and Aileron Rod Ends

See pages 22-24 for Cessna and Piper rod ends





# Flight Control Surface Parts and Attaching Hardware

## Aileron Rod Assembly for Piper PA-28/28R Series

**New!**

**40% off Piper!**  
P/N CA62766-000

- High quality 4130 steel construction
- Replaceable aft rod end bearing (P/N CA452-334A)
- Includes ICA with improved inspection procedures

**Maintenance Tip:**

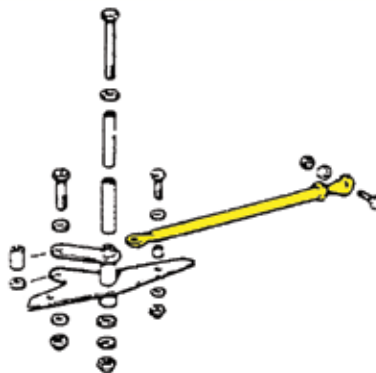
PMA Products recommends replacement when there is:

- more than 0.010 inch radial free play in either bearing
- any corrosion on either bearing
- significant corrosion or other damage to the tube
- see ICA at [www.mcfarlaneaviation/reference/](http://www.mcfarlaneaviation/reference/) for details

**FAA-PMA approved for aircraft models:**

PA-28-140, 150, 160, 180, 235, PA-28R-180, 200 (All serial numbers) - 2 required per aircraft

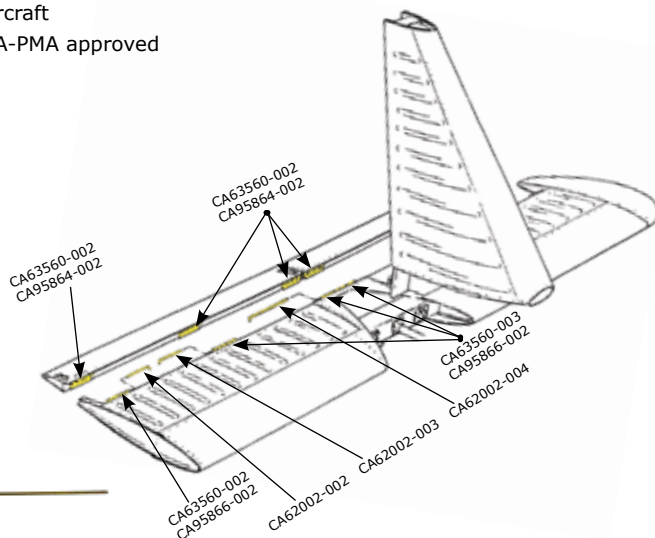
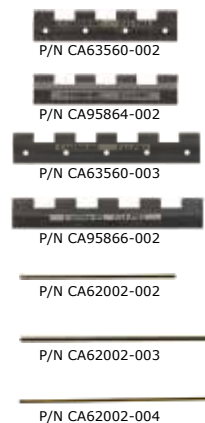
Manufactured by PMA Products, Inc.



Save \$\$

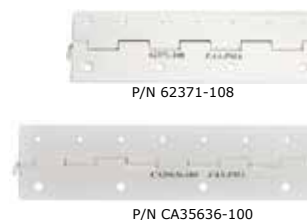
## Stabilator Trim Tab Hinges for Piper Aircraft

- Pins and hinge halves each sold separately or as convenient kits
- One kit required per aircraft
- Kit components are FAA-PMA approved



## Aileron Hinges for Piper Aircraft

- Hinge pins are Teflon coated
- FAA-PMA/STC approved
- Direct replacement



Aircraft	62371-108 Qty/Aircraft	CA35636-100 Qty/Aircraft
PA-28-140	4	
PA-28-150	4	
PA-28-151 <sup>1</sup>		2
PA-28-160	4	
PA-28-161		2
PA-28-180	4	
PA-28-181	4	2
PA-28-201T	4	2
PA-28-235	4	
PA-28-236	4	2
PA-28-R180	4	
PA-28R-200	4	
PA-28R-201	4	2
PA-28R-201T	4	2
PA-28RT-201	4	2
PA-28RT-201T	4	2
PA-32-260	4	
PA-32-300	4	
PA-32RT-300, 300T	4	
PA-34-200	4	

<sup>1</sup> S/Ns 28-7615001 and On  
**Note:**  
When both part numbers are eligible verify correct part number by length:  
P/N 62371-108 is 5"  
P/N CA35636-100 is 7.5"



Aircraft	Trim Tab Hinge Kit	Trim Tab Pin Only Kit	Qty	Part Number	Description
PA-28-140, 150, 151, 160, 161	PTH-KT-1	PTP-KT-1	<b>Piper Trim Tab Hinge Kit P/N PTH-KT-1</b>		
PA-28-180	PTH-KT-1 <sup>1</sup>	PTP-KT-1	2	CA62002-002	Pin, Hinge, Outboard
PA-28-181	PTH-KT-1	PTP-KT-1	2	CA62002-003	Pin, Hinge, Center
PA-28-201T	PTH-KT-1	PTP-KT-1	1	CA62002-004	Pin, Hinge, Inboard
PA-28-235	PTH-KT-1 <sup>2</sup>	PTP-KT-1	8	CA63560-002	Hinge Half
PA-28-236	PTH-KT-1	PTP-KT-1	4	CA63560-003	Hinge Half
PA-28R-180	PTH-KT-1	PTP-KT-1	<b>Piper Trim Tab Pin Kit P/N PTP-KT-1</b>		
PA-28R-200	PTH-KT-1 <sup>3</sup>	PTP-KT-1	2	CA62002-002	Pin, Hinge, Outboard
PA-28R-201, 201T	PTH-KT-1	PTP-KT-1	2	CA62002-003	Pin, Hinge, Center
PA-28RT-201, 201T	PTH-KT-1	PTP-KT-1	1	CA62002-004	Pin, Hinge, Inboard
PA-32-260	PTH-KT-1	PTP-KT-1	<b>Piper Trim Tab Hinge Kit P/N PTH-KT-2</b>		
PA-32-300, PA-32R-300	PTH-KT-1	PTP-KT-1	4	CA62002-003	Pin, Hinge, Outboard or Center
PA-32-301, 301T	PTH-KT-1	PTP-KT-1	1	CA62002-004	Pin, Hinge, Inboard
PA-32R-301, 301T	PTH-KT-1	PTP-KT-1	6	CA95864-002	Hinge Half
PA-32RT-300, 300T	PTH-KT-1	PTP-KT-1	6	CA95866-002	Hinge Half
PA-34-200, 200T, 220T	PTH-KT-2	PTP-KT-2	<b>Piper Trim Tab Pin Kit P/N PTP-KT-2</b>		
PA-44-180, 180T	PTH-KT-1	PTP-KT-1	4	CA62002-003	Pin, Hinge, Outboard or Center
			1	CA62002-004	Pin, Hinge, Inboard

Kits are eligible for all serial numbers of each model unless noted below.

- <sup>1</sup> S/Ns 28-671 thru 28-7205328 and 28-7305001 thru 28-7505260 only
- <sup>2</sup> S/Ns 28-10001 thru 28-7210023 and 28-7310001 thru 28-7710089 only
- <sup>3</sup> S/Ns 28R-35001 thru 28R-7135238 and 28R-7235001 thru 28R-7635545 only

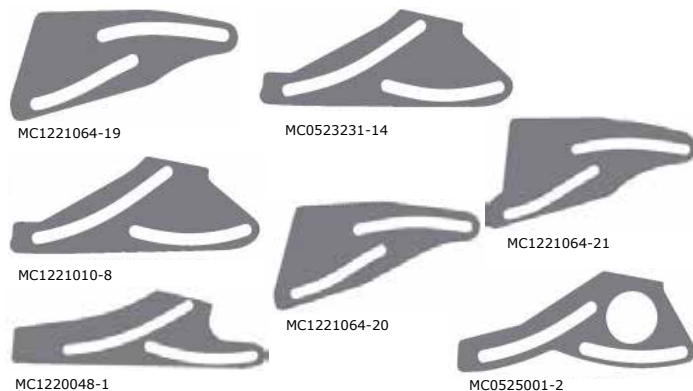
# Flight Control Surface Parts and Attaching Hardware

## Flap Tracks for Cessna Aircraft

**Replace worn-out tracks to prevent dangerous and expensive binding problems!**

- Improved Material
  - 20% Stronger
  - 6 Times fatigue strength
  - Greater resistance to 'mushrooming' and stress cracking
- Precision machined for smooth rolling action
- No pre-drilled holes for a precise, clean installation
- Replace just the track, not the entire rib assembly. (Cessna only lists the rib assembly for most aircraft)
  - Eliminates the need to drill into the fuel tank area.
- Alodined then epoxy primed per MIL-PRF-23377 for corrosion protection.
- Installation instructions included.

See pages 106-108  
for flap roller kits!



Cessna Flap Track Rib Assembly Part Number	Cessna Flap Track Part Number	McFarlane Flap Track Part Number
0523231-13	0523231-14 <b>5</b>	MC0523231-14
0523231-21		
0523231-23		
0525001-1	0525001-2 <b>5</b>	MC0525001-2
0525001-1S		
2425001-1		
1220058-1	1220048-1 <b>5</b>	MC1220048-1
1220052-2		
1221010-7		
1221010-7AGW		
1221010-15		
1221010-16	1221010-8 <b>5</b>	MC1221010-8
1221010-19		
1221010-19AGW		
1221010-20		
1221010-20AGW		
N/A	1221064-19 <b>6</b>	MC1221064-19
	1221064-20 <b>6</b>	MC1221064-20
	1221064-21 <b>6</b>	MC1221064-21

Quantity per Aircraft

Aircraft	MC0523231-14	MC0525001-2	MC1220048-1	MC1221010-8	MC1221064-19	MC1221064-20	MC1221064-21	MC2622075-4	MC2622075-5	MC2622075-6
150,150A,B,C,D,E,F,G,H,J,K,L,M	4									
A150K,L,M	4									
F150F,G,H,J,K,L,M, FA150K,L,M	4									
152 <b>1</b> , S/N 15279406 thru 15285564 <b>2</b>	4	4								
152 <b>1</b> , S/N 15285565 thru 15286033	4									
A152 <b>1</b> , S/N A1520735 thru A1521014 <b>2</b>	4	4								
A152 <b>1</b> , S/N A1521015 thru A1521049	4									
F152 <b>1</b> , S/N F15201429 thru F15201908 <b>2</b>	4	4								
F152 <b>1</b> , S/N F15201909 thru F15201980	4									
FA152 <b>1</b> , S/N FA1520337 thru FA1520387 <b>2</b>	4	4								
FA152 <b>1</b> , S/N FA1520388 thru FA1520425	4									
170B	4									
172,172A,B,C,D,E,F,G,H,I,K,L,M,N	4									
172P,R,S, F172P	4									
172RG, S/N 172RG0001 thru 172RG0409 <b>2</b>	4	4								
172RG, S/N 172RG0410 thru 172RG1191	4									
F172D,E,F,G,H,K,L,M,N	4									
FP172	4									
FR172E,F,G,H,J,K <b>1</b> S/N FR17200591 thru FR17200665	4									
FR172K <b>1</b> S/N FR17200666 thru FR17200675	4									
P172D	4									
R172E,F,G,H,K	4									
R172K <b>1</b> , S/N R1723400 thru R1723454	4									
175,175A,B,C	4									
177,177A,B,177RG,F177RG					2	2	2			
180,180A,B,C,D,E,F,G,H,J,K			4							
182,182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q			4							
182S,T			4							
F182P,Q			4							
FR182			4							
R182, T182, T182T			4							
185,185A,B,C,D,E,A185E,F			4							
188A,B,A188B			4							
210-5 (205), 210-5A (205A)			4							
206,U206,U206A,B,C,D,E,F,G,TU206F,G			2	4						
206H,T206H			6							
P206,P206A,B,C,D,E			2	4						
207,207A,T207,T207A			2	4						
208 S/N 20800001 thru 20800164 <b>3</b>							4		2	
208 S/N 20800001 thru 20800164 <b>4</b>							2	2	2	
208 S/N 20800165 thru 20899999							4		2	
208A <b>3</b>							4		2	
208A <b>4</b>							2	2	2	
208B S/N 208B0001 thru 208B0194 <b>3</b>							4		2	
208B S/N 208B0001 thru 208B0194 <b>4</b>							2	2	2	
208B S/N 208B0195 thru 208B9999							4		2	
210A,B,C										
210D,E,F			2	4						
210G,H,J,K,L,M,N,R						2	2	2		
P210N,R						2	2	2		
T210F			2	4						
T210G,H,J,K,L,M,N,R						2	2	2		

## Caravan 208 Flap Track

- NDI inspected
- **Save thousands** by replacing with McFarlane flap tracks after 15,000 landings instead of NDI eddy current testing every 3,000 landing as required by the maintenance manual.

FAA Approval  
Pending!



Caravan flap roller kits available now, see pages 107-108!



**1** Partial model eligibility  
**2** Cessna model 152, A152, F152, FA152 and 172RG aircraft may have various flap track rib assemblies installed. If flap track rib assembly part number 0523231-23 is currently installed, then McFarlane part number MC0523231-14 must be used to replace the flap track. If flap track rib assembly part number 0525001-1, 0525001-1S or 2425001-1 is currently installed, then McFarlane part number MC0525001-2 must be used to replace the flap track. Flap track rib assembly 0523231-23 includes a 0.160 inch thick flap track with no lightening hole. Flap track rib assemblies 0525001-1, 0525001-1S and 2425001-1 include a 0.25 inch thick flap track with a 2.25 inches lightening hole located between the flap roller slots.  
**3** With service kit SK208-71  
**4** Without service kit SK208-71  
**5** Part numbers do not appear in the Illustrated Parts Catalogs; only track assembly part numbers are listed.  
**6** Part numbers appear directly in Illustrated Parts Catalogs; no assembly part numbers exist.

# Flight Control Surface Parts and Attaching Hardware

## Flap Roller Kits for Cessna Aircraft

McFarlane offers a basic flap roller kit or an upgrade kit to address flap arm wear problems. Each flap roller kit contains enough components for one aircraft. All components are also available separately.

**See eligibility and kit component lists on the following page.**

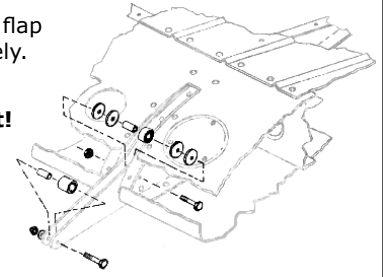
**Now available - Flap roller kits for Cessna Caravan 208 and Skymaster 336/337 aircraft!**

### Basic kits include

Rollers, bushings, shims and spacers where required

### Upgrade kits include

Rollers, bushings, shims, spacers where required, MCSK100 Flap Service Kits, wear washers, SEB95-3 Rev. 1 and hardware (nuts, bolts and washers)



### Rollers

- Cadmium plated for corrosion resistance
- Precision bearings for smooth, reliable operation



### Bushings

- Heat treated bearing quality stainless steel
- Precision ground
- Improved wear and corrosion resistance



### Shims and Spacers

- Stainless steel shims
- Self-lubricating nylon spacers



### Hardware

- Nuts, bolts and washers
- Extra hardware included, installer must determine the correct nut, bolt and washer combination for specific aircraft



### Wear Washers and SEB95-3 Rev. 1

- Stops forward roller location flap arm wear
- Service Bulletin SEB95-3 Rev. 1 is copyrighted by Cessna



### MCSK100 Flap Roller Service Kits

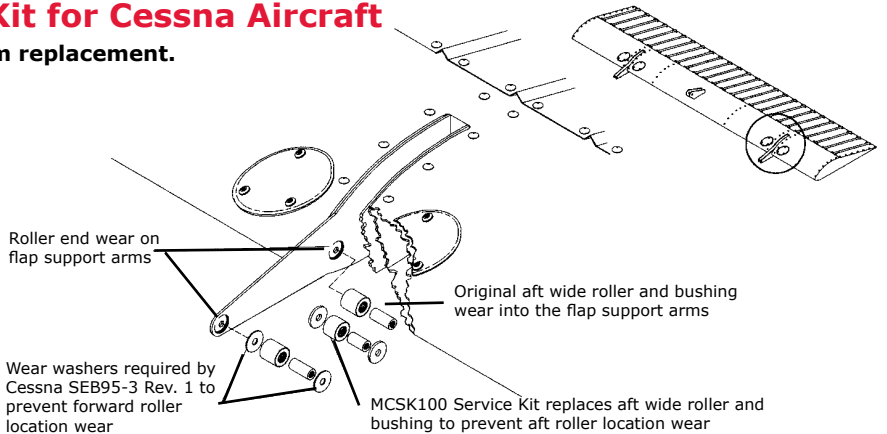
- Stops aft roller location flap arm wear
- Unique McFarlane solution



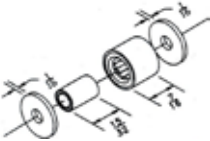
## MCSK100 Flap Roller Service Kit for Cessna Aircraft

**Stops flap arm wear! Prevents costly flap arm replacement.**

- A permanent solution to the wear problem at the aft wide roller locations.
- Includes two stepped washers, a medium width roller and bushing.
- Stepped washers interlock with bushing making installation easier.
- Replaces the aft wide roller and bushing.
- FAA-PMA/STC approved (Minor alteration - logbook entry only)
- Applicable to most single engine Cessna aircraft.
- Economical!



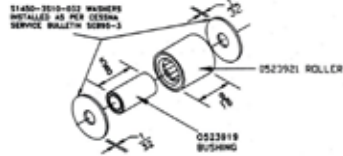
### MCSK100 Flap Roller Service Kit



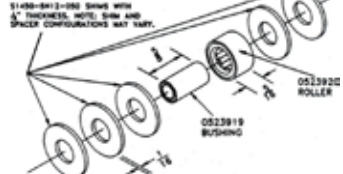
### MCSK100 replaces aft wide roller assembly



### MCSK100 DOES NOT replace forward wide roller assembly



### MCSK100 DOES NOT replace narrow roller assembly



### Technical Background:

The flap rollers wear into the flap support arms on Cessna aircraft. This wear is caused by the flap rollers due to the asymmetric extension or retraction of the flap during flight. This asymmetry is caused by the inboard or outboard section of the flap leading the retraction or extension of the flap. Many factors, including rusty or damaged rollers or flap track imperfections, can contribute to this condition. This asymmetry causes the rollers to be pressed against the flap support arms (roller end loading) which, over time, causes damage to the flap support arms and structurally weakens the flap.

Cessna Service Bulletin SEB95-3 (Included in all FLP-KT series kits) addresses this issue by calling for the inspection and repair or replacement of the support arms and rollers. Cessna Service Bulletin SEB95-3 also requires the installation of stainless steel washers on each side of the forward rollers to reduce the wear between the roller and the support arms. SEB95-3, however, did not offer a preventative solution to the wear problem experienced at the aft roller locations. MCSK100 is a permanent solution that addresses the aft flap support arm wear problem. Installation is considered a minor alteration and does not require the filing of FAA Form 337. Only a logbook entry is required for this STC.

It is important that the Cessna Service Bulletin SEB95-3 is fully complied with before MCSK100 is installed.





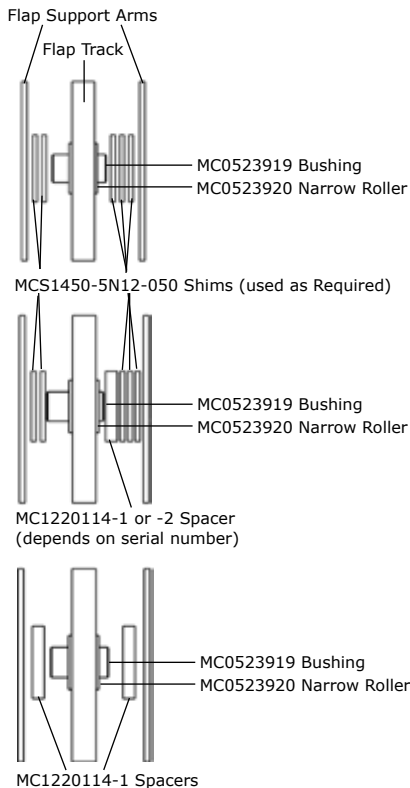
# Flight Control Surface Parts and Attaching Hardware

**McFarlane**  
FAA-PMA Approved

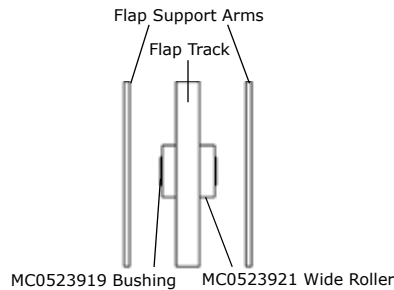
## Cessna Flap Attachment Configurations

- All configurations shown are for example only. Types and quantities of shims and spacers will vary between aircraft. Refer to your aircraft's parts catalog for specific configuration.
- McFarlane flap upgrade kits include all required bolts, nuts and washers.

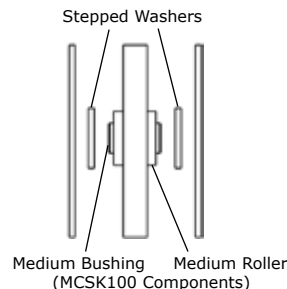
### Aft Narrow Roller Locations (example configurations)



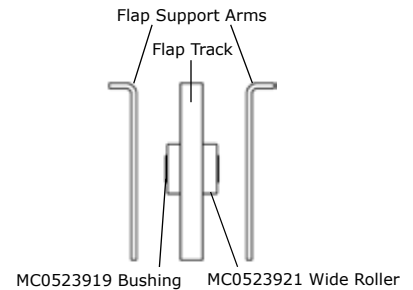
### Aft Wide Roller Locations Original Configuration



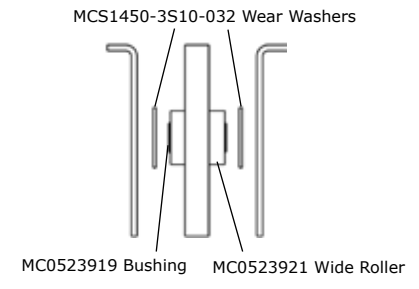
### Aft Wide Roller Locations with MCSK100 Service Kit



### Forward Roller Locations Original Configuration



### Forward Roller Locations with Wear Washers per Cessna SEB95-3 Rev. 1



## Eligibility for Flap Roller Kits for Cessna Aircraft

Model	Serial Number	Part Numbers	Model	Serial Number	Part Numbers
150, 150A, B, C, D, E, F, G, H, J	All	FLP-KT-1 or 1U	A182J, K, L, M, N	All	FLP-KT-3 or 3U
150K, L, M	All	FLP-KT-2 or 2U	F182P, Q	All	FLP-KT-3 or 3U
A150K, L, M	All	FLP-KT-2 or 2U	FR182	All	FLP-KT-3 or 3U
F150F, G, H, J	All	FLP-KT-1 or 1U	R182(RG)/TR182	All	FLP-KT-3 or 3U
F150K, L, M	All	FLP-KT-2 or 2U	T182T	All	FLP-KT-3 or 3U
FA150K, L, FRA150L, M	All	FLP-KT-2 or 2U	185, 185A, B, C, D, E/A185E, F	1850001 thru 18502310	FLP-KT-1 or 1U
152	15279406 thru 15285564	FLP-KT-2 or 2U	A185F	18502311 thru 18504448	FLP-KT-8 or 8U
152	15285565 thru 15286033	FLP-KT-3 or 3U	188, 188A, B/A188A, B	1880001 thru 18802348	FLP-KT-3 or 3U
F152	F15201429 thru F15201908	FLP-KT-2 or 2U	A188B	18800967T thru 18803968T	FLP-KT-3 or 3U
F152	F15201909 thru F15201980	FLP-KT-3 or 3U	T188C	All	FLP-KT-3 or 3U
A152	A1520735 thru A1521014	FLP-KT-2 or 2U	210-5 (205), 210-5A (205A)	All	FLP-KT-1 or 1U
A152	A1521015 thru A1521049	FLP-KT-3 or 3U	206	All	FLP-KT-4 or 4U
FA152	FA1520337 thru FA1520387	FLP-KT-2 or 2U	206H/T206H	All	FLP-KT-11 or 11U
FA152	FA1520388 thru FA1520425	FLP-KT-3 or 3U	P206, A, B, C, D, E	All	FLP-KT-4 or 4U
170B	All	FLP-KT-1 or 1U	TP206A, B, C, D, E	All	FLP-KT-4 or 4U
172, 172A, B, C	All	FLP-KT-1 or 1U	TU206A, B, C, D, E	U2060487 thru U20601568	FLP-KT-4 or 4U
172D, E, F, G, H, I, K, L, M, N	All	FLP-KT-2 or 2U	TU206E	U20601569 thru U20607020	FLP-KT-9 or 9U
172RG	172RG0001 thru 172RG0416	FLP-KT-2 or 2U	U206, U206A, B, C, D, E	U2060276 thru U20601568	FLP-KT-4 or 4U
172RG	172RG0417 thru 172RG1191	FLP-KT-3 or 3U	U206E	U20601569 thru U20607020	FLP-KT-9 or 9U
172P, Q	All	FLP-KT-3 or 3U	207, 207A, T207, T207A	All	FLP-KT-4 or 4U
172R	All	FLP-KT-10 or 10U	208, 208A, B	All	FLP-KT-12
172S	All	FLP-KT-10 or 10U	210, A, B, C	All	FLP-KT-1 or 1U
F172D, E, F, G, H, K, L, M, N	All	FLP-KT-2 or 2U	210D, E, F	All	FLP-KT-6
F172P	All	FLP-KT-3 or 3U	210G, H, J, K, L, M, N, R	All	FLP-KT-7
FR172E, F	All	FLP-KT-1 or 1U	P210N, R	All	FLP-KT-7
FR172G, H, J	All	FLP-KT-2 or 2U	T210F	All	FLP-KT-6
FR172K	All	FLP-KT-8 or 8U	T210G, H, J, K, L, M, N, R	T2100198 thru T2100454	FLP-KT-7
P172	All	FLP-KT-2 or 2U	336	All	FLP-KT-13
R172K	All	FLP-KT-8 or 8U	337, 337A, B, C, D, E, F, G, H	All	FLP-KT-14
175, 175A, B, C	All	FLP-KT-1 or 1U	F337E, F, G, H	All	FLP-KT-14
177, 177A, B	All	FLP-KT-4 or 4U	FT337E, F	All	FLP-KT-14
177RG	All	FLP-KT-4 or 4U	FT337GP, HP	All	FLP-KT-15
F177RG	All	FLP-KT-4 or 4U	M337B	All	FLP-KT-14
180, A, B, C, D, E, F, G, H, J	30000 thru 18052384	FLP-KT-1 or 1U	P337H	All	FLP-KT-15
180	18052385 thru 18053203	FLP-KT-8 or 8U	T337B, C, D, E, F	All	FLP-KT-14
182, 182A, B, C, D	All	FLP-KT-1 or 1U	T337G	All	FLP-KT-15
182, E, F, G, H, J, K, L, M, N, P, Q, R	All	FLP-KT-3 or 3U	T337H	All	FLP-KT-14
182S, T	All	FLP-KT-3 or 3U	T337H-SP	All	FLP-KT-15

Partial model eligibility

Kit components are listed on the following page.



## Component List for Flap Roller Kits for Cessna Aircraft

Each flap roller kit contains enough components for one aircraft. All basic kits include the rollers, bushings, shims, spacers where required and a copy of SEB95-3 Service Bulletin. The upgrade kits contain the same components, the wear washers required by Cessna SEB95-3 for the forward locations, MCSK100 Flap Roller Service Kits for the rear locations, and attachment nuts, bolts, and washers. Part numbers for the upgrade kits end in "U".

Note: SEB95-3 REV. 1 Service Bulletin is not applicable to 172R,S, 182S,T, T182T, 206H, T206H, 208, 336 and 337 aircraft.

**Flap Upgrade Kits contain bolts, nuts and washers for several aircraft models. The installer must determine the correct nut, bolt and washer combination for each installation.**

Kit P/N	Qty	Part Number	Description	
FLP-KT-1	8	MC0523919	Bushings	
	2	MC0523920	Rollers	
	6	MC0523921	Rollers	
FLP-KT-1U	12	MCS1450-5N12-050	Shims	
	1	SEB95-3 REV. 1	Service Bulletin	
	4	AN3-10A	Bolts	
	8	AN3-11A	Bolts	
	8	AN960-10	Washers	
	6	MC0523919	Bushings	
	2	MC0523920	Rollers	
	4	MC0523921	Rollers	
	8	MCS14503S10-032	Wear Washers	
	12	MCS1450-5N12-050	Shims	
	2	MCSK100	Service Kits	
	8	MS21044N3	Nuts	
FLP-KT-2	1	SEB95-3 REV. 1	Service Bulletin	
	8	MC0523919	Bushings	
	2	MC0523920	Rollers	
	6	MC0523921	Rollers	
	2	MC1220114-2	Spacers	
	12	MCS1450-5N12-050	Shims	
	1	SEB95-3 REV. 1	Service Bulletin	
	4	AN3-10A	Bolts	
	8	AN3-11A	Bolts	
	8	AN960-10	Washers	
	6	MC0523919	Bushings	
	FLP-KT-2U	2	MC0523920	Rollers
4		MC0523921	Rollers	
2		MC1220114-2	Spacers	
8		MCS14503S10-032	Wear Washers	
12		MCS1450-5N12-050	Shims	
2		MCSK100	Service Kits	
8		MS21044N3	Nuts	
1		SEB95-3 REV. 1	Service Bulletin	
8		MC0523919	Bushings	
2		MC0523920	Rollers	
6		MC0523921	Rollers	
FLP-KT-3		4	MC0523921	Rollers
	4	MC1220114-1	Spacers	
	1	SEB95-3 REV. 1	Service Bulletin	
	4	AN3-10A	Bolts	
FLP-KT-3U	8	AN3-11A	Bolts	
	8	AN960-10	Washers	
	6	MC0523919	Bushings	
	2	MC0523920	Rollers	
	4	MC0523921	Rollers	
	4	MC1220114-1	Spacers	
	8	MCS14503S10-032	Wear Washers	
	2	MCSK100	Service Kits	
	8	MS21044N3	Nuts	
	1	SEB95-3 REV. 1	Service Bulletin	
	FLP-KT-4	12	MC0523919	Bushings
		2	MC0523920	Rollers
10		MC0523921	Rollers	
4		MC1220114-1	Spacers	
1	SEB95-3 REV. 1	Service Bulletin		

Kit P/N	Qty	Part Number	Description
FLP-KT-4U	6	AN3-10A	Bolts
	12	AN3-11A	Bolts
	12	AN960-10	Washers
	8	MC0523919	Bushings
	2	MC0523920	Rollers
	6	MC0523921	Rollers
FLP-KT-6	4	MC1220114-1	Spacers
	12	MCS14503S 10-032	Wear Washers
	4	MCSK100	Service Kits
	12	MS21044N3	Nuts
	1	SEB95-3 REV. 1	Service Bulletin
	2	MC0523920	Rollers
FLP-KT-7	10	MC0523921	Rollers
	12	MC0523919	Bushings
	12	MCS1450-5N12-050	Shims
	1	SEB95-3 REV. 1	Service Bulletin
	6	MC0523920	Rollers
	6	MC0523921	Rollers
FLP-KT-8	12	MC0523919	Bushings
	12	MC1220114-1	Spacers
	1	SEB95-3 REV. 1	Service Bulletin
	8	MC0523919	Bushings
	2	MC0523920	Rollers
	4	MC0523921	Rollers
FLP-KT-8U	4	MC1220114-1	Spacers
	8	MCS14503S10-032	Wear Washers
	12	MCS1450-5N12-050	Shims
	2	MCSK100	Service Kits
	8	MS21044N3	Nuts
	1	SEB95-3 REV. 1	Service Bulletin
FLP-KT-9	12	MC0523919	Bushings
	4	MC0523920	Rollers
	8	MC0523921	Rollers
	8	MC1220114-1	Spacers
	1	SEB95-3 REV. 1	Service Bulletin
	10	AN3-10A	Bolts
FLP-KT-9U	8	AN3-11A	Bolts
	12	AN960-10	Washers
	6	MC0523919	Bushings
	4	MC0523920	Rollers
	2	MC0523921	Rollers
	8	MC1220114-1	Spacers
FLP-KT-10	4	MCS14503S10-032	Wear Washers
	6	MCSK100	Service Kits
	12	MS21044N3	Nuts
	1	SEB95-3 REV. 1	Service Bulletin
	8	AN3-10A	Bolts
	12	AN3-11A	Bolts
FLP-KT-10U	12	AN960-10	Washers
	8	MC0523919	Bushings
	2	MC0523920	Rollers
	4	MC0523921	Rollers
	4	MC1220114-1	Spacers
	8	MCS14503S10-032	Wear Washers
FLP-KT-11	2	MCSK100	Service Kits
	8	MS21044N3	Nuts
	1	SEB95-3 REV. 1	Service Bulletin
	12	MC0523919	Bushings
	4	MC0523920	Rollers
	8	MC0523921	Rollers
FLP-KT-11U	8	MC1220114-1	Spacers
	1	SEB95-3 REV. 1	Service Bulletin
	6	AN3-10A	Bolts
	12	AN3-11A	Bolts
	12	AN960-10	Washers
	8	MC0523919	Bushings
FLP-KT-12	4	MC0523920	Rollers
	8	MC0523921	Rollers
	4	MC0523919	Bushings
	4	MC0523921	Rollers
	8	MCS14503S10 032	Wear Washers
	4	MS21044N3	Nuts
FLP-KT-12U	1	SEB95-3 REV. 1	Service Bulletin
	6	MS21044N4	Nuts
	6	MS21442-121	Bearings
	4	NAS1149F0363P	Washers
	4	NAS1149F0363P	Washers
	6	NAS1149F0432P	Washers
FLP-KT-13	6	NAS1149F0463P	Washers
	16	AN3-10A	Bolts
	16	MC0523919	Bushings
	8	MC0523920	Rollers
	8	MC0523921	Rollers
	32	MCS1450-5N12-050	Shims
FLP-KT-14	16	MS21045L3	Nuts
	16	AN3-10A	Bolts
	16	MC0523919	Bushings
	8	MC0523920	Rollers
	8	MC0523921	Rollers
	16	MC1220114-1	Spacers
FLP-KT-15	16	MS21045L3	Nuts
	16	AN3-10A	Bolts
	16	MC0523919	Bushings
	8	MC0523920	Rollers
	8	MC0523921	Rollers
	16	MC1220114-1	Spacers

Kit P/N	Qty	Part Number	Description
FLP-KT-15	8	MC0523919	Bushings
	2	MC0523920	Rollers
	6	MC0523921	Rollers
	4	MC1220114-1	Spacers
	1	SEB95-3 REV. 1	Service Bulletin
	8	AN3-10A	Bolts
	4	AN3-11A	Bolts
	8	AN960-10	Washers
	6	MC0523919	Bushings
	2	MC0523920	Rollers
	4	MC0523921	Rollers
	4	MC1220114-1	Spacers
	16	MS21044N3	Nuts



**Flap roller kits for 208 and 336/337 aircraft!**

## Flap Roller Installation Tool

Part Number 970

- Makes installation of the aft flap roller, bushing and washers easy.
- Holds parts in alignment while inserting the bolt.
- Long handle allows access through the small inspection openings.
- Use on Cessna 150 thru 337



# Flight Control Surface Parts and Attaching Hardware



## Rudder and Elevator Bushing Kits for Cessna Aircraft

### Solves all fit problems!

McFarlane supplies two bushing sizes for each hinge location.

This allows a selective fit and solves the common Cessna fit and interference problems.

- Hardened corrosion resistant stainless steel
- Cessna models 120 thru 177
- Convenient kits include all bushings, sintered bronze bearings and hardware for one aircraft.  
Note: Kits do not include bellcrank bearings or bushings.
- All components are also available separately.



Model	Serial Number	Elevator Bushing Kit	Rudder Bushing Kit
120,140,140A	All	EBC-KT-6	RBC-KT-8
150,150A,B,C,D,E	All	EBC-KT-1	RBC-KT-1
150F,G,H,J	All	EBC-KT-1	RBC-KT-2
150K <sup>1</sup> , A150K <sup>1</sup>	150K S/N 15071129 thru 15071621 and A150K S/N A1500001 thru A1500129	EBC-KT-1	RBC-KT-3
150K <sup>1</sup> ,L,M, A150K <sup>1</sup> ,L,M	150K S/N 15071622 thru 15072003 and A150K S/N A1500130 thru A1500226	EBC-KT-2	RBC-KT-3
A-150L, A-A150L	All	EBC-KT-2	RBC-KT-3
F150F,G,H,J	All	EBC-KT-1	RBC-KT-2
F150K <sup>1</sup> ,L <sup>1</sup> , FA150K <sup>1</sup>	F150L S/N F15000659 thru F15000699 and FA150K S/N FA1500001 thru FA1500039	EBC-KT-1	RBC-KT-3
F150L <sup>1</sup> ,M <sup>1</sup> , FA150K <sup>1</sup> ,L <sup>1</sup> ,M <sup>1</sup>	F150L S/N F15000700 thru F15001143 and FA150K S/N FA1500040 thru FA1500081	EBC-KT-2	RBC-KT-3
FRA150L,M	All	EBC-KT-2	RBC-KT-3
152 <sup>1</sup> , A152 <sup>1</sup>	152 S/N 15279406 thru 15285833 and A152 S/N A1520735 thru A1521025	EBC-KT-3	RBC-KT-3
152 <sup>1</sup> , A152 <sup>1</sup>	152 S/N 15285834 thru 15286033 and A152 S/N A1521026 thru A1521049	EBC-KT-4	RBC-KT-3
F152 <sup>1</sup> , FA152 <sup>1</sup>	F152 S/N F15201429 thru F15201943 and FA152 S/N FA1520337 thru FA1520387	EBC-KT-3	RBC-KT-3
F152 <sup>1</sup> , FA152 <sup>1</sup>	F152 S/N F15201944 thru F15201980 and FA152 S/N FA1520388 thru FA1520425	EBC-KT-4	RBC-KT-3
170, 170A,B	All		RBC-KT-11
172, 175	172 S/N 28000 thru 46754 and 175 S/N 55001 thru 56238	EBC-KT-5	RBC-KT-4 or RBC-KT-4A <sup>4</sup>
172A,B,C <sup>1</sup> , 175A,B,C <sup>1</sup>	172A,B,C S/N 46755 thru 17249085 and 175A,B,C S/N 56239 thru 17557064	EBC-KT-5	RBC-KT-5
172C <sup>1</sup> , 175C <sup>1</sup>	172C S/N 17249086 thru 17249544 and 175C S/N 17557065 thru 17557119	EBC-KT-5	RBC-KT-6
172D,E,F,G,H,I,K,L,M,N,P <sup>1</sup>	S/N 17249545 thru 17275963	EBC-KT-5	RBC-KT-6
172P <sup>1</sup> ,Q,R,S	S/N 17275964 and On	EBC-KT-5	RBC-KT-7
172RG, P172D, R172K	All	EBC-KT-5	RBC-KT-6
F172D,E,F,G,H,K,L,M,N,P <sup>1</sup>	S/N F172-0001 thru F17202208	EBC-KT-5	RBC-KT-6
F172P <sup>1</sup>	S/N F17202209 thru F17202254	EBC-KT-5	RBC-KT-7
FP172, FR172E,F,G,H,J,K	All	EBC-KT-5	RBC-KT-6
177,177A,B,177RG,F177RG	All	No kit available	MC0532104K Bushing Only

<sup>1</sup> Partial model eligibility.

### Rudder Bushing Kit Components

Kit P/N	Qty	Part Number	Description
RBC-KT-1	1	MCS1003-65A	Bearing
	1	MC0432003-1K	Bushing <sup>5</sup>
	1	AN3-7A	Bolt
	1	NAS1149F0363P	Washer
RBC-KT-2	3	MCS1004-42A	Bearing
	3	MC0532104K	Bushing <sup>5</sup>
	3	AN4-11A	Bolt
	3	NAS1149F0463P	Washer
	3	MS21042L4	Nut
RBC-KT-3	3	MCS1004-42A	Bearing
	3	MC0532104K	Bushing <sup>5</sup>
	3	AN4-10A	Bolt
	3	NAS1149F0463P	Washer
RBC-KT-4 <sup>4</sup>	2	MCS1003-29A	Bearing
	2	MC0532104K	Bushing <sup>5</sup>
	2	AN4-11A	Bolt
	2	NAS1149F0463P <sup>3</sup>	Washer
RBC-KT-4A <sup>4</sup>	1	RBC-KT-4	Rudder Bushing Kit
	1	MS21044N4	Nut
	1	MS24462-4	Bearing
	1	NAS1149F0432P	Washer
RBC-KT-5	1	NAS1149F0463P	Washer
	2	MCS1003-29A	Bearing
	1	MCS1004-42A <sup>2</sup>	Bearing
	3	MC0532104K	Bushing <sup>5</sup>
RBC-KT-6	3	AN4-11A	Bolt
	3	NAS1149F0463P	Washer
	2	MCS1003-29A	Bearing
	2	MCS1004-42A <sup>2</sup>	Bearing
	3	MC0532104K	Bushing <sup>5</sup>
	3	AN4-11A	Bolt
RBC-KT-7	2	NAS1149F0432P <sup>3</sup>	Washer
	2	MS21042L4 <sup>3</sup>	Nut
	1	MCS1003-29A	Bearing
	1	MCS1004-42A <sup>2</sup>	Bearing
	3	MC0532104K	Bushing <sup>5</sup>
	3	AN4-11A	Bolt
	2	NAS1149F0432P <sup>3</sup>	Washer
RBC-KT-8	2	MS21042L4 <sup>3</sup>	Nut
	2	MC0431119K	Bushing <sup>5</sup>
	2	MCS1003-11A	Bearing
	2	AN3-7A	Bolt
RBC-KT-11	2	MS21044N4	Nut
	2	S1K5	Bearing

### Elevator Bushing Kit Components

Kit P/N	Qty	Part Number	Description	
EBC-KT-1	2	MCS1003-65A	Bearing	
	2	MC0432003-1K	Bushing <sup>5</sup>	
	2	AN3-7A	Bolt	
	2	NAS1149F0363P	Washer	
EBC-KT-2	2	MCS1003-65A	Bearing	
	2	MC0432003-1K	Bushing <sup>5</sup>	
	2	AN3-7	Bolt	
	2	NAS1149F0363P	Washer	
	2	AN310-3	Nut	
EBC-KT-3	2	MS24665-132	Pin	
	2	MCS1003-65A	Bearing	
	2	MC0432003-1K	Bushing <sup>5</sup>	
	2	AN3-7A	Bolt	
	2	NAS1149F0363P	Washer	
EBC-KT-4	2	MS21044N3	Nut	
	2	MCS1003-28A	Bearing	
	2	MC0432173-3K	Bushing <sup>5</sup>	
	2	AN4-7A	Bolt	
	2	NAS1149F0463P	Washer	
EBC-KT-5	2	MS21042L4	Nut	
	4	MCS1003-29A	Bearing	
	4	MC0532104K	Bushing <sup>5</sup>	
	4	AN4-11A	Bolt	
	4	NAS1149F0463P	Washer	
EBC-KT-6	4	MS21042L4	Nut	
	4	MC0422215	Bushing	
	4	S1997-7G8	Bearing	
	4	AN4-11A	Bolt	
		4	MS21044N4	Nut

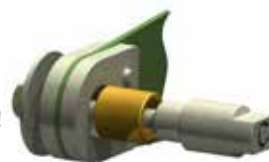
#### Notes:

- <sup>2</sup> Lower Hinge Only
- <sup>3</sup> Center and Lower Hinge Only
- <sup>4</sup> Kit RBC-KT-4 contains components to service the upper and middle hinges. Kit RBC-KT-4A contains components to service the upper, middle and lower (bellcrank) hinges.
- <sup>5</sup> Bushing part numbers MC0431119K, MC0432003-1K, MC0432173-3K and MC0532104K include a nominal bushing (with no "K" suffix), an oversized bushing (with a "P1" suffix), and selective fit instructions.  
**Example:** MC0432003-1K includes nominal bushing MC0432003-1 and oversized bushing MC0432003-1P1.



## Elevator and Rudder Bearing Installation Tool for Cessna Aircraft

Makes  
pressing  
bearings in  
or out easy!  
P/N 990



This unique tool is specifically designed to prevent damage when installing and removing sintered bronze rudder and elevator hinge bearings.

- Eight piece kit for all sizes of sleeve bearings.
- Heat treated stainless steel will last a lifetime.
- Comes in a convenient storage pouch.



### CONTROL HINGE BUSHING IDENTIFICATION





# Flight Control Surface Parts and Attaching Hardware

## Rudder and Elevator Hinge Bearing Kits for Cessna Caravan Aircraft

**In stock for immediate shipment! Buy with confidence.**

- Convenient kits include bearings and all attaching hardware
- Kits for aircraft equipped with and without hinge modification service kits
- One elevator kit and one rudder kit required per aircraft
- Industry standard hardware



Cessna has issued several non-mandatory service bulletins and service kits for the rudder and elevator hinge bearings on the Caravan due to a corrosion issue with the needle bearing. The service kits require modification to the hinge structure, not just the bearing itself. The new bearing is a different size than the "original" design, so the mounting hardware is different as well. Because of these structural changes any aircraft that has had the service kits installed cannot use hardware from a non-service kit aircraft. McFarlane offers kits for both configurations.

Aircraft	Serial Number	Elevator Kit P/N	Rudder Kit P/N
208	20800001 thru 20800221	EBC-KT-7 <b>1</b>	RBC-KT-9 <b>3</b>
		EBC-KT-8 <b>2</b>	RBC-KT-10 <b>4</b>
208	20800222 thru 20899999	EBC-KT-7	RBC-KT-9
208A	20800007 thru 20800102	EBC-KT-7 <b>1</b>	RBC-KT-9 <b>3</b>
		EBC-KT-8 <b>2</b>	RBC-KT-10 <b>4</b>
208B	208B0001 thru 208B0318	EBC-KT-7 <b>1</b>	RBC-KT-9 <b>3</b>
		EBC-KT-8 <b>2</b>	RBC-KT-10 <b>4</b>
208B	208B0319 thru 208B9999	EBC-KT-7	RBC-KT-9

Save \$\$\$



- 1** With SK208-102, SK208-106, & SK208-107 installed.
- 2** Without SK208-102, SK208-106, & SK208-107 installed.
- 3** With SK208-99, SK208-104 and SK208-105 installed.
- 4** Without SK208-99, SK208-104 and SK208-105 installed.

**Kit Contents: (Components also available separately)**

P/N EBC-KT-7			P/N EBC-KT-8			P/N RBC-KT-9			P/N RBC-KT-10		
Qty	Part Number	Description	Qty	Part Number	Description	Qty	Part Number	Description	Qty	Part Number	Description
4	AN4-12	Bolt	4	AN5-10	Bolt	3	AN4-12	Bolt	3	AN4-11	Bolt
1	AN4-13	Bolt	1	AN5-13	Bolt	3	MS17825-4	Nut	3	MS17825-4	Nut
5	MS17825-4	Nut	5	MS17825-5	Nut	3	MS24665-134	Cotter Pin	3	MS24462-4	Bearing
4	MS24665-134	Cotter Pin	5	MS24461-5	Bearing	3	MS27641-4	Bearing	3	MS24665-134	Cotter Pin
1	MS24665-136	Cotter Pin	4	MS24665-134	Cotter Pin	3	NAS1149F0432P	Washer	3	NAS1149F0432P	Washer
5	MS27641-4	Bearing	1	MS24665-136	Cotter Pin	6	NAS1149F0463P	Washer	6	NAS1149F0463P	Washer
4	NAS1149F0432P	Washer	10	NAS1149F0563P	Washer						
6	NAS1149F0463P	Washer									

## Hinge and Bellcrank Bearing for Cessna Aircraft

**Hard to find, frequently replaced! Buy from McFarlane and Save \$\$\$**

**P/N MS24462-4**



Aircraft Model	Aileron Hinge Qty/Aircraft	Elevator Bellcrank Qty/Aircraft	Center Elev. Hinge Qty/Aircraft	Rudder Hinge Qty/Aircraft	Elevator Hinge Qty/Aircraft	Rudder Bellcrank Qty/Aircraft
172, 175						1
177, 177A,B, 177RG, F177RG	6					
180, 180A,B,C,D,E,F,G,H,J,K			1		4	
182, 182A,B,C,D			1		4	
182E,F,G,H,J,K,L,M,N,P,Q,R,S,T, A182J,K,L,N, F182P,Q, FR182, R182, T182, T182T, TR182			1		4 <b>1</b>	
185, 185A,B,C,D,E, A185E,F			1		4	
188, 188A,B, A188, A188A, A188B, T188C	6				4	
210-5 (205), 210-5A (205A)			1	1	4	
206, U206, U206A,B,C,D,E	4		1		4	
206H, T206H	4	1	1		4 <b>2</b>	
P206, P206A,B,C,D,E	4		1		4	
TP206A,B,C,D,E, TU206A,B,C,D,E	4		1		4	
TU206F,G, U206F,G			1		4	
207, 207A, T207, T207A	4	1	1		4	
210, 210A			1		4	
210B,C			1	1	4	
210D,E,F	4	1	1	1	4	
210G,H,J			1		4	
210K,L,M	6	1	2		4	
210N,R	6	1	1		4	
P210N	6	1	1		4	
P210R	6	1	1		4	
T210F	4	1	1	1	2	
T210G,H,J			1		4	
T210K,L,M	6	1	2		4	
T210N,R	6	1	1		4	

- 1** 182T s/n 18280945 thru 1821642; T182T s/n 18208001 thru 18208447 only
- 2** For installation on 206H, T206H s/n 20608001 thru 20608956 & T20608001 thru T20608956 only

### P/N MS24461-4

Used as aileron and elevator bearings on many single engine Cessna aircraft!



### P/N S1K5 Bearing, Fafnir

Aircraft Model
170, 170A,B
180, 180A,B,C,D,E,F,G,H,J,K
182, 182A,B
185, 185A,B,C,D,E, A185E,F <b>1</b>
188, 188A,B
A188B <b>2</b>
A188B <b>3</b> (w/ large hopper)
<b>1</b> 185-0001 thru 18504425
<b>2</b> 18802349 thru 18803856
<b>3</b> 18800967T thru 18803968T



Supersedure Table	
4NBC612ZP	USE MS24461-4
4NCC910P	USE MS24462-4
AR4-1	USE MS24462-4
NAS296-4A	USE MS24462-4
NAS505-4	USE MS24461-4
NAS506-4	USE MS24462-4

# Landing Gear and Nose Wheel Steering Parts

## Can You Stop Nose Gear Shimmy?

By Dave McFarlane



**Nose gear shimmy is destructive and not normal, and yes, it can be stopped. Never allow any amount nose gear shimmy to continue. The quicker you take action, the easier it will be to stop it.**

**"A Cessna nose wheel is supposed to shimmy."**

**"You can't really stop it."**

**"All the Pipers do it."**

You have heard similar comments many times. My response is always the same question. "Did it shimmy when it was new?" I would like to share with you our experience in solving this problem.

I will bore you with the routine detail of what to look for and how to fix the mechanical issues that allow shimmy to get started in a minute. First, let's talk about the physics of nose gear shimmy. Years ago and after a lot of frustration by us and our customers and a lot of experimenting, we discovered what was causing our shimmy problems. We observed that uncorrectable nose gear shimmy seemed to only happen on hard surface runways and rarely on turf runways. Our customers reported that they could stop the shimmy by either taking weight off the nose gear with the elevator or applying the brakes putting more weight on the nose gear. It didn't seem logical that just changing the weight on the nose gear could affect shimmy since the airplane is designed to function with different loading on the nose gear and the weight change does not significantly change the nose gear geometry. We guessed that our customer's shimmy might have been stopped by the fact that the changing nose weight also changed the tire shape. We assumed that when the tire shape changes so does the contact profile of the tire to the runway. We had already done all of the normal things to perfect the

nose gear and shimmy damping system rigging and mechanicals. The customer's tire seemed fine with no unusual wear patterns that could be detected. We still had shimmy! In frustration, an experiment was done by removing some tread rubber from the tire. It did not seem to be a logical solution, but it worked. The shimmy went away!

There are some interesting dynamics going on during the shimmy action (besides trying to vibrate your airplane apart). When the nose tire is shimmying down the runway it is oscillating from pointing left and then pointing right many times per second while the airplane is going straight. The greater the tire angle diverges from straight ahead, the greater the shimmy inertia and energy. Since the oscillations are equal in divergence angle and time duration, the rubber on your tire is being scuffed in a uniform and distinct pattern that repeats itself each revolution of the tire. This wear pattern shape is directly related to the tire shape created by the amount of weight on the nose tire, the tire pressure, and the speed of the aircraft. The frequency of the shimmy is a derivative of these factors. You might have noticed a braking feel to the airplane when severe shimmying is happening. The braking is from the nose tire skidding sideways during the more extreme angle divergent portion of the shimmy cycle. Since shimmy generally takes place for a short time, the early stages of this wear pattern are microscopic and hard to detect visually or by feeling the tire tread by hand. After the first shimmy, the then created wear pattern tends to start the oscillating action when the airplane speed and nose gear weight matches the speed and weight that the airplane was traveling when the shimmy

## Drop a plumb bob to determine aircraft center line



One of the hardest parts of proper rigging is determining where the nose tire is straight ahead.

The method we use is to create an airplane center line by dropping a plumb bob from the center of the firewall to the ground (center can be determined from the rivet pattern or measuring from the motor mount attachments) and again dropping the plumb bob from the center of the tail tie down hook. Mark both of the plumb bob points on the shop floor and create a chalk line mark between the points. This is your airplane center line. Extend the center line forward as close to the nose tire as possible.

Place a straight 2x4 stud or a piece of straight angle iron against the side of the nose tire. Adjust the nose wheel and tire until the 2x4 is parallel with the airplane center line. Check your results by placing the 2x4 on the other side of the tire. The 2x4 acts as a tire angle multiplier giving you measurable results.

Parallelism can be checked by simply measuring the distance between the 2x4 and the chalk line in two places. Be sure not to move the airplane while you make your nose gear alignment adjustments.

wear pattern was created. You might have noticed that shimmy starts at about the same landing or taxiing speed each time. The results are that the shimmy gets worse every time it happens even if the mechanical issues that let it start shimmying the first time have been corrected and the shimmy damper is working and trying to do its job. The shimmy damper simply is not strong enough to prevent shimmy when a nose tire has an established shimmy wear pattern in the tread. The hidden mystery to this problem is that early shimmy wear patterns in the tire are virtually undetectable.

**Continued on next page.**

## Landing Gear and Nose Wheel Steering Parts

Continued from previous page

### Prevention Tips

The key to shimmy problems is to prevent shimmy from starting in the first place. You have to start with the routine stuff that is in the service manuals. The Cessna Pilots Association has a very good article on fixing the mechanical issues associated with nose shimmy on Cessna airplanes. Their Tech Note No. 001, Revision 004 dated 04/15/2010 does a good job of describing and illustrating the system and directing corrective repairs. This tech note seems to parallel the Cessna Service Information Letter SE84-21 on the same subject.

**1** The first step in preventing the problem is to look for any un-damped nose gear movement. This is motion of the nose tire without the shimmy damper moving. Looseness in the nose gear system cannot be detected with the nose wheel off the ground unless the pressure is released from the nose strut. When you move the nose wheel right and then left, the shimmy damper should also move. If there is any un-damped motion, tighten or replace the worn components such as the torque link bushings and spacers, the steering collar, and shimmy damper attachments.

**2** Remove the shimmy damper attachments. Check the shimmy damper for proper fluid and proper operation. Check the damper for seal condition and excessive wear in the piston and damper bore. The damper shaft must have considerable resistance to motion when moved quickly but move easily when moved slowly.

**3** Nose gear rigging is important to prevent shimmy. If the steering rods or bungees are biased, damaged, or holding improper tension, shimmy can be started. The aircraft service manuals do a good job of describing proper nose gear rigging procedures. Wheel bearings must be in good condition and properly adjusted.

**4** Bad bearings or adjustments can allow un-damped tire movement. Tire balance is also critical for preventing shimmy as an out of balance tire puts cyclic centrifugal loads on the tire tread. Out of round tires will do the same thing. One of the objectives of preventing shimmy is to not have any type of cyclic loads going into the tire system.

**5** Check the tire itself for casing shift or other damage as follows:

- Take the weight off the nose tire for a period of time to let the tire take its proper shape.
- Assure that the tire is inflated to the proper pressure for the aircraft.
- Spin the tire by hand and look for any significant lateral divergence (tire wobble) or vertical divergence (out of round). The tire must rotate true, but a little out of round is normal.
- If tire casing shape problems are detected, let the tire stabilize longer without weight. If that does not correct the problem, the only fix is to replace the tire.
- If the tire casing seems to run out true and the tire is determined to be airworthy in all aspects, remove the shimmy wear pattern in the tire tread.

How do you remove rubber on a good tire to get rid of this mysterious and evil tread wear pattern that nobody can see or feel? We use an electric disc grinder that is used in the weld shop for grinding welds and smoothing structural steel. Any large sanding disk power tool with a course grit disc or a belt sander would also work. There will be some rubber flying around the shop so this is a good job to do outside. Get someone else to do it if you have allergic reactions to latex or rubber products. Block the nose gear off the ground and give the tire time to stabilize its shape without weight. Again assure that the tire has the correct inflation pressure. Touch the grinder to the tire at an angle that rotates the tire and removes rubber. With a little practice you will be able to control the tire rotational speed with small grinder angle adjustments. If you allow the tire to rotate too



**Use a belt sander to  
remove the shimmy wear  
pattern in the tread.**

fast, very little rubber will be removed. If you allow the tire to rotate too slow, it is hard to remove the rubber evenly. Taxi speed tire rotation seems to work best. You can actually remove small "out of round" tire conditions by being steady with the grinder and allowing the grinder to work harder on the tire high spots. The grinder must be worked across the tire tread as evenly as you can. Never grind into the sidewall of the tire. You can feel advanced shimmy wear patterns before you start and they will take more work to remove than the patterns you cannot feel. The tire must feel smooth and even when you are done. Only experience will tell you how much rubber to remove. Be sure that the tire has good tread depth when you are finished, and verify that there is not any inadvertent damage to the tire. Clean up the rubber grindings and high speed taxi test the airplane. You will probably be smiling with the results. It is a good idea to re-balance the tire after grinding the tread and before returning the aircraft to service. If the test does fail, repeat the process. Yes, with a little patience, this shimmy beast can be tamed!



**Wheel balancer P/N  
TOOL108 to check tire  
for proper balance.**



# Landing Gear and Nose Wheel Steering Parts



## Nose Wheel Steering Rod Boots for Cessna Aircraft

**P/N MC0413304-3 for 150-152 series and P/N MC0543015-6 for 172, 175 and early 182 series**

McFarlane steering rod boots are manufactured with a black Kevlar®/fiberglass blend fabric. The fatigue resistance of Kevlar is uniquely mated with the fire resistance of fiberglass. This is a super tough, high temperature fabric that will provide many years of outstanding performance.

- Keeps the exhaust and carbon monoxide out of the cabin
- Protects the cabin in case of an engine fire



*These Bad Boys Can Take the Abuse!*

## Nose Wheel Steering Rods for Cessna Aircraft

**Tired of 'soft' worn out steering rods? Replace them with improved McFarlane steering rods.**

- New redesigned long life springs!
- Stainless steel tubes for improved corrosion resistance (MC0543022 Series).
- Hardened internal washer for greater durability
- Optimum performance even after years of service!



MC0543022 Series

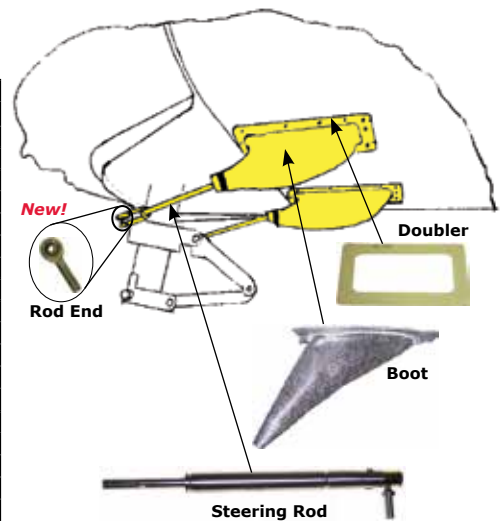


MC0743008 Series

### Maintenance Tip:

*How do I know if my steering rods need to be replaced?*

- Nose wheel steering is unusually sluggish.
- One or both sides offer little or no spring resistance to steering input.
- More than 1 1/8" of free travel is present in either steering rod.
- The aircraft pulls to either side during taxiing.
- Inconsistent steering or rudder rigging.

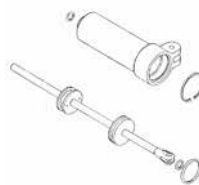


Model	S/N	Boot (2 per A/C)	Steering Rod		Doublers (2 per A/C)	Rod End <i>New!</i> (2 per A/C)
			Left Hand	Right Hand		
150, 150A,B,C,D,E,F,G,H	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1107-3
150J,K,L,M	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
A150K,L,M	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
F150F,G,H	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
F150J,K,L,M, FA150K,L	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
FRA150L,M	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
152, A152, F152, FA152	All	MC0413304-3	MC0543022-3	MC0543022-4	0413304-6	S1823-3
172, 172A	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1107-3
172B,C	All	MC0543015-6	MC0743008-1	MC0743008-2	0543026-1	S1107-3
172D,E,F,G,H,I,K,L,M,N,P,Q	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
F172D,E,F,G,H,K,L,M,N,P	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
FP172	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
FR172E,F,G,H,J,K	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
P172	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
R172K	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
172R,S	All	MC0543015-6	MC0543022-1	MC0543022-2	0543026-1	S1823-3
175, 175A,B,C	All	MC0543015-6	MC0743008-1	MC0743008-2	0543026-1	S1107-3
177, 177A,B	All					S1823-3
182,A,B,C,D	All	MC0543015-6	MC0743008-1	MC0743008-2	0543026-1	S1107-3

## Seal Kits for Cessna Shimmy Dampers

**Part Number SDKT-1**

Seal kits contain the industry standard o-rings required to reseal the Cessna shimmy damper.



Model	Year	Serial Number	Shimmy Damper
150, 150A,B,C,D,E	59-66	17001 thru 15064532	0442512-6
F150	1966	F150-0001 thru F150-0067	0442512-2
150F,G,H,J,K,L,M	67-77	15064533 thru 15079405	0442512-1
A150K,L,M	70-77	A1500001 thru A1500734	0442512-1
F150G,H,J,K,L,M	67-77	F150-0068 thru F15001428	0442512-1
FA150K,L	70-71	FA1500001 thru FA1500120	0442512-1
FRA150L,M	72-77	FRA1500121 thru FRA1500336	0442512-1
152	78-85	15279406 thru 15286033	0442512-1
A152	78-85	A1520735 thru A1521049	0442512-1
F152	78-86	F15201429 thru F15201980	0442512-1
FA152	78-86	FA1520337 thru FA1520425	0442512-1
172D,E,F,G,H,I,K,L,M,N,P	63-86	17249545 thru 17276673	0442512-1
P172	1963	P17257120 thru P17257188	0442512-1
R172	77-81	R1722000 thru R1723454	0442512-1
F172D,E,F,G,H,K,L,M,N,P	63-86	F172-0001 thru F17202254	0442512-1
FR172	68-81	FR17200001 thru FR17200675	0442512-1

## Removing Torque Link Bushings (Nose Gear Scissors)

*By Dave McFarlane*

Removing the flanged bushings from the torque link forging can be difficult as there is not a good surface to press against or grab onto. An easy way to remove them is to thread them with a tap, screw a bolt in the thread you made, and then drive or press against the bolt. The thread does not have to be a full depth thread for the bolt to hold securely in the bushing. The bushing material is somewhat hard, but not so hard that a standard hardware store tap will not do the job. Use cutting oil on the tap to prevent tap damage. Normally the bushing will then come out easily. For stubborn bushings, soak the link assembly in boiling water before pressing the bushing. The heat will expand the aluminum forging more than the steel bushing. This helps loosen the press fit while limiting the temperature to prevent from overheating and harming the heat treat of the aluminum forging. A controlled oven can be substituted for boiling water as a heat source, but do not exceed 350° F. Do not use flame or other non-controlled heat sources. An alternate method is to put dry ice in the bushing before driving or pressing on the bolt you threaded into the bushing. Do not over-press or hammer as the aluminum can gall to the bushing and leave a damaged bushing bore. If the bushing does not come out with light to moderate force take the time to use some heat or cold to help.

# Landing Gear and Nose Wheel Steering Parts

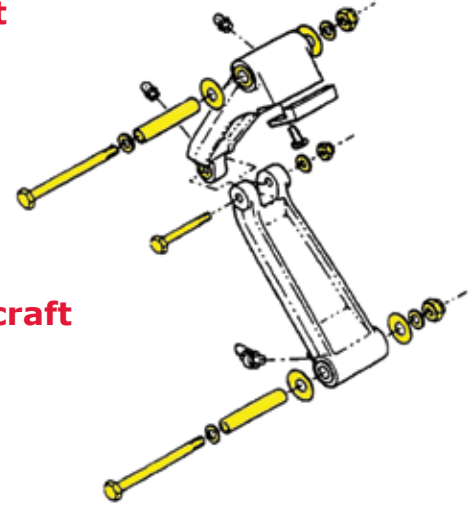
## Nose Gear Torque Link Repair Kits for Cessna Aircraft

### Part Numbers TL-KT-1 thru TL-KT-11

- Includes all commonly replaced torque link parts in a convenient kit.
- McFarlane manufactured FAA-PMA approved kits.
- Fits most single engine Cessna aircraft.
- Now with specific model eligibility.
- Prevents Nose Wheel shimmy.

**Kits include:**

Bushings, Spacers, Shims, Nuts, Bolts, Washers and Cotter Pins.



## Brass Nose Gear Torque Link Shim Kit for Cessna Aircraft

- Eliminates undamped torque link motion to prevent shimmy
- Also available individually or in torque link repair kits

### Part Number TL-SHIM-KT-1

**Kit contains:**

- (2) MCS1450-6B14-005 .005 Thick
- (2) MCS1450-6B14-007 .007 Thick
- (5) MCS1450-6B14-010 .010 Thick



## Torque Link Spacers for Cessna Aircraft

### Part Numbers MC0543047-1 and MC0543047-2

- Tightly controlled minimal end chamfer maximizes bearing surface between spacer and fork to ensure a secure clamp and prevent fork wear.
- Precision length



### NAS1149F0316P Ultra-Thin Washers

These hard to find 3/16" ID, 0.016" thick standard steel washers are sometimes useful for fine tuning the center "knee" joint fit on most Cessna torque links. Available in packs of 5.

**Not included in torque link kits.**



Model	Serial Number	Part Number																
		TL-KT-1	TL-KT-2	TL-KT-4	TL-KT-5	TL-KT-6	TL-KT-7	TL-KT-8 <sup>2</sup>	TL-KT-9 <sup>2</sup> <sup>7</sup>	TL-KT-10	TL-KT-11	TL-SHIM-KT-1	MC0543047-1	MC0543047-2	MCS1450-6B14-005	MCS1450-6B14-007	MCS1450-6B14-010	
150, 150A,B,C,D,E,F,G,H,J,K,L,M	All	•																
A150K-M, F150F-M, FA150K-M, FRA150L,M	All	•																
152, A152, F152, FA152	All	•																
172 <sup>1</sup>	28000 thru 36141, 36150 thru 36153							•										
172 <sup>1</sup> , 172A,B,C,D,E,F,G,H,I,K,L,M,N,P,Q,R,S	36142 thru 36149, 36154 thru 172S9999	•																
172RG	All					•												
F172D-P, FP172, FR172E-K, P172D, R172K	All	•																
175, 175A,B,C	All	•																
177, 177A,B	All								•									
177RG, F177RG	All					•												
182	All	•																
182A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q	All	•																
182R	All					•												
182S,T	All	•																
F182P,Q	All	•																
R182, T182, FR182	All					•												
T182T	All	•																
TR182	All					•												
205 (210-5) 205A, (210-5A)	All	•																
206, P206, P206A, TP206A, TU206A, U206, U206A <sup>3</sup>	All	•	•															
P206B,C,D,E <sup>1</sup> , TP206B,C,D,E <sup>1</sup> <sup>3</sup>	P206-0307 thru P20600641	•																
P206E <sup>1</sup> , TP206E <sup>1</sup>	P20600642 thru P20600647																	
TU206B,C,D,E <sup>1</sup> , U206B,C,D,E <sup>1</sup> <sup>3</sup>	U206-0657 thru U20601537	•																
TU206E <sup>1</sup> ,F <sup>1</sup> , U206E <sup>1</sup> ,F <sup>1</sup>	U20601538 thru U20602199																	
TU206F <sup>1</sup> ,G, U206F <sup>1</sup> ,G	U20602200 thru U20607020																	
206H, T206H	All					•												
207 <sup>1</sup> , T207 <sup>1</sup> <sup>2</sup>	20700001 thru 20700228					•	•											
207 <sup>1</sup> , 207A, T207 <sup>1</sup> , T207A	20700229 thru 20700788					•												
210, 210A,B,C,D,E,F,G,H,J	All	•																
210K <sup>3</sup>	All	•	•															
210L <sup>1</sup> <sup>3</sup> , T210L <sup>1</sup> <sup>3</sup>	21059503 thru 21060255	•						•										
210L <sup>1</sup> ,M,N,R	21060256 thru 21065009							•										
P210N,R	All							•										
T210F,G,H,J,K	All	•																
T210L <sup>1</sup> ,M,N,R	21060256 thru 21065009							•										

Eligibility notes continue on the next page.

# Landing Gear and Nose Wheel Steering Parts

Eligibility notes:	
<b>1</b>	Partial model eligibility
<b>2</b>	TL-KT-8 and TL-KT-9 torque link kits are used on Cessna model aircraft with heavy duty landing gear that utilizes AN6 size (3/8-24 UNF) bolts in the upper and lower torque link joints. The normal duty landing gear uses AN4 size (1/4-28 UNF) bolts in the upper and lower torque link joints. Call for additional details.
<b>3</b>	Aircraft models in this serial range may use one of two choices for McFarlane Torque Link Kits. The aircraft that have both upper and lower spacers measuring ~ 2 inches long will use McFarlane Torque Link Kit TL-KT-1 (containing two MC0543047-1 spacers). The aircraft that has an upper spacer measuring ~ 2.6 inches and a lower spacer measuring ~2 inches will use McFarlane Torque Link Kit TL-KT-2 (containing one MC0543047-1 and one MC0543047-2 spacer).
<b>4</b>	Aircraft models in this serial range may use one of two choices for McFarlane Torque Link Kits. The aircraft that have both upper and lower spacers measuring ~ 2 inches long will use McFarlane Torque Link Kit TL-KT-5 (containing two MC0543047-1 spacers). The aircraft that has an upper spacer measuring ~ 2.6 inches and a lower spacer measuring ~2 inches will use McFarlane Torque Link Kit TL-KT-4 (containing one MC0543047-1 and one MC0543047-2 spacer).
<b>5</b>	Aircraft models in this serial range may use one of two choices for McFarlane Torque Link Kits. The aircraft that have both upper and lower spacers measuring ~ 2 inches long will use McFarlane Torque Link Kit TL-KT-1 (containing two MC0543047-1 spacers). The aircraft that has an upper spacer measuring ~ 2.6 inches and a lower spacer measuring ~2 inches will use McFarlane Torque Link Kit TL-KT-7 (containing one MC0543047-1 and one MC0543047-2 spacer).
<b>6</b>	Aircraft models in this serial range may use one of two choices for McFarlane Torque Link Kits. The aircraft that have both upper and lower spacers measuring ~ 2 inches long will use McFarlane Torque Link Kit TL-KT-1 (containing two MC0543047-1 spacers). The aircraft that has an upper spacer measuring ~ 2.6 inches and a lower spacer measuring ~2 inches will use McFarlane Torque Link Kit TL-KT-11 (containing one MC0543047-1 and one MC0543047-2 spacer).
<b>7</b>	Call for details

## Torque Link Stop Lugs and Safety Plate for Cessna Aircraft

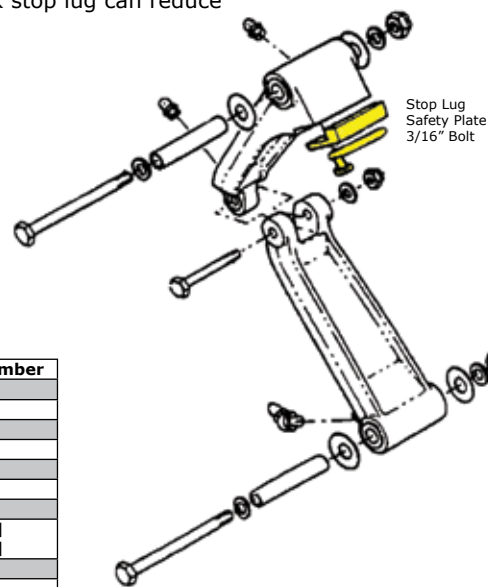
### Replace worn out stop lugs to reduce drag? Really?



***This often overlooked but important part is affordable at McFarlane!*** The torque link stop lug is a sacrificial part that hammers against a flat spot on the lower part of the shock strut outer tube when the strut extends after take off. This prevents the strut from overextending and forces the nose wheel and rudder system into proper alignment for flight.

Due to repeated hammering with every takeoff, these stop lugs must be periodically replaced. Excessive wear can allow overextension of the strut. They also often wear unevenly resulting in inconsistent alignment of the nose wheel in flight which then causes extra drag and yaw. The extra yaw can require increased rudder trim which causes even more drag. So yes, replacing a torque link stop lug can reduce drag!

- Safety plate features bend up tabs to secure stop lug bolts
- Super tough 4130 alloy steel for corrosion resistance
- Kits include stop lug, safety plate and applicable 3/16" bolts.



#### Maintenance Tip:

*Replace the stop lug if it is no longer flush with the strut, mushroomed, worn rounded, bent away from the torque link, or if it has stress cracks. The safety plate should not be reused.*

Aircraft	Serial Number	Stop Lug	Safety Plate	Kit Part Number
150D,E,F <b>1</b>	15060477 thru 15063457	MC0442506-8 <b>2</b>	MC0442506-9 <b>2</b>	TLSL-KT-1
150G,H,J,K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1
A150K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1
F150F	F150-0001 thru F150-0055	MC0442506-8	MC0442506-9	TLSL-KT-1
F150G,H,J,K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1
FA150K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1
152, A152, F152, FA152	All	MC0442506-8	MC0442506-9	TLSL-KT-1
172H,I,K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1 <b>2</b>
172N,P,Q	All	MC0442506-8	MC0442506-9	TLSL-KT-2 <b>3</b>
172R,S	All	MC0442506-8	MC0442506-9	TLSL-KT-1
F172H,K,L,M	All	MC0442506-8	MC0442506-9	TLSL-KT-1 <b>2</b>
F172N,P	All	MC0442506-8	MC0442506-9	TLSL-KT-2 <b>3</b>
FR172E,F,G	All	MC0442506-8	MC0442506-9	TLSL-KT-1 <b>2</b>
FR172H,J	All	MC0442506-8	MC0442506-9	TLSL-KT-2 <b>3</b>
FR172K	All	MC0442506-8	MC0442506-9	TLSL-KT-1
R172E,F,G,H,K	All	MC0442506-8	MC0442506-9	TLSL-KT-2
182K,L,M,N	All	MC0442506-8 <b>2</b>	MC0442506-9	TLSL-KT-2 <b>2</b>
		MC0442506-11 <b>3</b>		TLSL-KT-4 <b>3</b>
182P <b>1</b>	18260826 thru 18262465	MC0442506-11	MC0442506-9	TLSL-KT-4
	18262466 thru 18265175	MC0442506-11	MC0442506-9	TLSL-KT-4
182Q,R	All	MC0442506-11	MC0442506-9	TLSL-KT-4
182S,T	All	MC0442506-11	MC0442506-9	TLSL-KT-3
F182P,Q	All	MC0442506-11	MC0442506-9	TLSL-KT-4
T182T	All	MC0442506-11	MC0442506-9	TLSL-KT-3
206H, T206H	All		MC0442506-9	
P206B,C,D,E	All	MC0442506-8 <b>2</b>	MC0442506-9 <b>2</b>	TLSL-KT-2
TP206B,C,D,E	All	MC0442506-8 <b>2</b>	MC0442506-9 <b>2</b>	TLSL-KT-2
TU206B,C,D,E,F <b>1</b>	U206-0657 thru U20602199	MC0442506-8 <b>2</b>	MC0442506-9 <b>2</b>	TLSL-KT-2
TU206F <b>1</b> ,G	U20602200 thru U20607020		MC0442506-9	
U206B,C,D,E,F <b>1</b>	U206-0657 thru U20602199	MC0442506-8 <b>2</b>	MC0442506-9 <b>2</b>	TLSL-KT-2
U206F <b>1</b> ,G	U20602200 thru U20607020		MC0442506-9	
207, 207A, T207, T207A	All		MC0442506-9	

- 1** Partial model eligibility
- 2** When equipped with heavy duty nose gear
- 3** When equipped with standard duty nose gear

#### More Important Than You Think

Overextension of the nose strut due to a worn out stop can lead to a cascade of problems. McFarlane A&P mechanics have seen struts extend to the point where the metering pin comes out of the orifice. This results in the pin hammering the orifice every landing and distorting and enlarging it. Over time, the excess nose strut travel and lack of damping due to an enlarged orifice can result in fatigue cracks in the torque link arms. For these reasons McFarlane recommends thoroughly inspecting all nose strut components when replacing a severely worn stop lug.

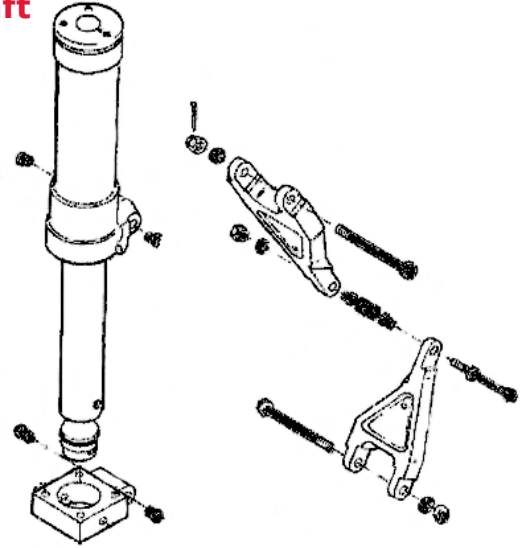


## Landing Gear and Nose Wheel Steering Parts

### Nose Gear Torque Link Repair Kits for Piper Aircraft

Prevents shimmy by removing looseness in the torque links.

- Replaces all common wear torque link components in a convenient kit
- Fits most prop driven Piper aircraft
- Contains All FAA approved parts and standard hardware
- Save time and money! No more research and ordering of individual parts.



Aircraft	Serial Number	Main Wheel Kit 2 kits req. if not labeled Left/Right	Nose Wheel Kit
PA-23, PA23-160	All	PTL-KT-91	PTL-KT-91
PA-23-235	All	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings
PA-23-250	All	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings
PA-E23-250	All	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings	PTL-KT-92 w/o Notched Bushings PTL-KT-93 w/Notched Bushings
PA-24, PA-24-250, PA-24-260, PA-24-400	All	PTL-KT-36 Left PTL-KT-75 Right	PTL-KT-95
PA-28-140, PA-28-150, PA-28-160, PA-28-180	All	PTL-KT-11	PTL-KT-31
PA-28-151	All	PTL-KT-13	PTL-KT-29
PA-28-161	2816001 thru 2816119	PTL-KT-4	PTL-KT-31
	2841001 thru 2841365	PTL-KT-10	PTL-KT-26
	2842001 thru 2842999	PTL-KT-5	PTL-KT-32
	28-7716001 thru 28-7816253 28-7816254 thru 28-8616057	PTL-KT-15 PTL-KT-4	PTL-KT-31
PA-28-181	2843001 thru 2843999	PTL-KT-3	PTL-KT-30
	28-7690001 thru 28-7890231 28-7890232 thru 28-8690062	PTL-KT-12 PTL-KT-7	PTL-KT-27
	All	PTL-KT-2	PTL-KT-52
PA-28-201T	All	PTL-KT-11	PTL-KT-31
PA-28-235	All	PTL-KT-11	PTL-KT-31
PA-28-236	All	PTL-KT-77	PTL-KT-28
PA-28R-180	28R-30005 thru 28R-30481	PTL-KT-40 Left PTL-KT-59 Right	PTL-KT-79
	28R-7130001 thru 28R-7130013	PTL-KT-40 Left PTL-KT-59 Right	PTL-KT-81
PA-28R-200	28R-35001 thru 28R-7135062	PTL-KT-40 Left PTL-KT-59 Right	PTL-KT-78
	28R-7135063 thru 28R-7635545	PTL-KT-40 Left PTL-KT-59 Right	PTL-KT-81
PA-28R-201, PA-28R-201T	2803001 thru 2837061	PTL-KT-44 Left PTL-KT-61 Right	PTL-KT-84
PA-28R-201	2844001 thru 2844999	PTL-KT-39 Left PTL-KT-68 Right	PTL-KT-80
PA-28R-201, PA-28R-201T	28R-7703001 thru 28R-7837317	PTL-KT-44 Left PTL-KT-61 Right	PTL-KT-84
PA-28RT-201, PA-28RT-201T	All	PTL-KT-43 Left PTL-KT-61 Right	PTL-KT-85
PA-30	All	PTL-KT-95	PTL-KT-95
PA-31, PA-31-300, PA-31-325	31-5 thru 31-7812120	PTL-KT-22 w/o Notched Bushings PTL-KT-21 w/Notched Bushings	PTL-KT-90 w/o Notched Bushings PTL-KT-98 w/Notched Bushings PTL-KT-97 w/Notched Bushings PTL-KT-56 w/o Notched Bushings
	31-7812121 thru 31-8312019		
PA-31-350	31-5001 thru 31-8553002	PTL-KT-25 w/o Notched Bushings PTL-KT-18 w/Notched Bushings	PTL-KT-67 w/o Notched Bushings PTL-KT-73 w/Notched Bushings
PA-31-350 (T1020)	31-8253001 thru 31-8553002	PTL-KT-24 w/o Notched Bushings PTL-KT-17 w/Notched Bushings	PTL-KT-70 w/o Notched Bushings PTL-KT-64 w/Notched Bushings
PA-31P	All	PTL-KT-25 w/o Notched Bushings PTL-KT-18 w/Notched Bushings	PTL-KT-66 w/o Notched Bushings PTL-KT-72 w/Notched Bushings
PA-31P-350	All	PTL-KT-25 w/o Notched Bushings PTL-KT-18 w/Notched Bushings	PTL-KT-65 w/o Notched Bushings PTL-KT-71 w/Notched Bushings
PA-31T, PA-31T1, PA-31T2, PA-31T3	All	PTL-KT-23 w/o Notched Bushings PTL-KT-16 w/Notched Bushings	PTL-KT-65 w/o Notched Bushings PTL-KT-71 w/Notched Bushings
PA-32-260	32-1 thru 32-7700023	PTL-KT-14	
	32-7800001 thru 32-7800008	PTL-KT-9	PTL-KT-33
	32-40000 thru 32-7840043	PTL-KT-14	
PA-32-300	32-7840044 thru 32-7940290	PTL-KT-9	PTL-KT-33
PA-32-301, PA-32-301T	All	PTL-KT-8	PTL-KT-34
PA-32-301FT, PA-32-301XTC	All	PTL-KT-6	PTL-KT-35
PA-32R-300	All	PTL-KT-37 Left	PTL-KT-82
	All	PTL-KT-69 Right	

Eligibility continued on next page



# Landing Gear and Nose Wheel Steering Parts



Eligibility continued from previous page

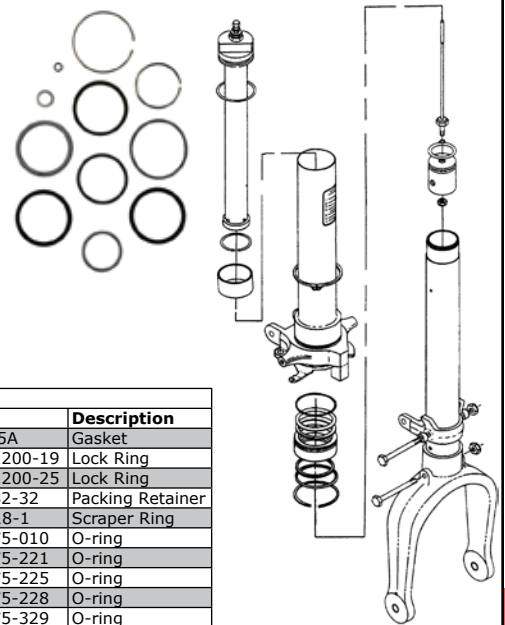
Aircraft	Serial Number	Main Wheel Kit 2 kits req. if not labeled Left/Right	Nose Wheel Kit
PA-32R-301, PA-32R-301T	3213001 thru 3229003	PTL-KT-42 Left PTL-KT-60 Right	PTL-KT-84
	3246001 thru 3257999	PTL-KT-45 Left PTL-KT-63 Right	PTL-KT-85
	32R-8013001 thru 32R-8629008	PTL-KT-42 Left PTL-KT-60 Right	PTL-KT-84
PA-32RT-300, PA-32RT-300T	All	PTL-KT-41 Left PTL-KT-60 Right	PTL-KT-76
PA-34-200	All	PTL-KT-42 Left PTL-KT-60 Right	PTL-KT-86
PA-34-200T	All	PTL-KT-38 Left PTL-KT-58 Right	PTL-KT-86
PA-34-220T	3433001 thru 3447029	PTL-KT-57	PTL-KT-86
	3448038 thru 3448079	PTL-KT-53	PTL-KT-86
	3449001 thru 34-8633031	PTL-KT-57	PTL-KT-86
PA-38-112	All		PTL-KT-1
PA-39	All	PTL-KT-95	PTL-KT-95
PA-42, PA-42-720, PA-42-720R	All	PTL-KT-20 w/o Notched Bushings PTL-KT-25 w/Notched Bushings	PTL-KT-65 w/o Notched Bushings PTL-KT-71 w/Notched Bushings
PA-42-1000	All	PTL-KT-19	PTL-KT-65 w/o Notched Bushings PTL-KT-71 w/Notched Bushings
PA-44-180	4495001 thru 4495013		PTL-KT-85
	4496001 thru 4496999	PTL-KT-44 Left PTL-KT-61 Right	PTL-KT-74
	44-7995001 thru 44-8195026		PTL-KT-85
PA-44-180T	All	PTL-KT-43 Left PTL-KT-62 Right	PTL-KT-85
PA-46-310P	All	PTL-KT-48	PTL-KT-96
PA-46-350P (w/ G1000)	All	PTL-KT-47	PTL-KT-88
PA-46-350P (w/o G1000)	4622001 thru 4622200	PTL-KT-46	PTL-KT-96
	4636001 thru 4636195	PTL-KT-51	
	4636196 thru 4636999	PTL-KT-50	PTL-KT-88
PA-46-500TP (w/ G1000)	All	PTL-KT-54	PTL-KT-87
PA-46-500TP (w/o G1000)	All	PTL-KT-55	PTL-KT-87
PA-46R-350T (w/ G1000)	All	PTL-KT-49	PTL-KT-89
PA-46R-350T (w/o G1000)	All	PTL-KT-50	PTL-KT-88

## Nose Strut Seal Kits for Cessna Aircraft

McFarlane has received FAA approval for manufacturing all of the components of the Cessna nose strut seal kits for most Cessna aircraft. We can now offer improved kits at a lower price!

### Part Numbers NSS-KT-1 and NSS-KT-2

- FAA-PMA direct replacement for Cessna part number SK172-1F.
- Also includes AN901-5A gasket.
- Improved lock rings are made of 304 stainless steel for better corrosion resistance.
- Components also available separately.



Aircraft	Kit P/N
All 150, 152, 172, 175, 177RG series	NSS-KT-1
182, 182A,B,C,D	NSS-KT-2
182E-T, A182J,K,L,N	NSS-KT-1
F182P,Q, FR182, R182, TR182, T182, T182T	NSS-KT-1
210-5 (205)	NSS-KT-2
210-5A (205A)	NSS-KT-1
206, 207 series	NSS-KT-1
210, 210A	NSS-KT-2
210B-R, P210N,R, T210F-R	NSS-KT-1
T303	NSS-KT-1
310, 310B,C,D,F,G,H,I,J,J-1,K,L,N,P,Q	NSS-KT-2
320, 320-1, 320A,B,C,D,E,F	NSS-KT-2
336	NSS-KT-2
337 series	NSS-KT-1

NSS-KT-1		
Qty	P/N	Description
1	AN901-5A	Gasket
1	MC0841200-19	Lock Ring
1	MC0841200-25	Lock Ring
2	MCS1628-329	Backup Ring
1	MCS2418-1	Scraper Ring
1	MS28775-010	O-ring
1	MS28775-221	O-ring
1	MS28775-225	O-ring
1	MS28775-228	O-ring
1	MS28775-329	O-ring

NSS-KT-2		
Qty	P/N	Description
1	AN901-5A	Gasket
1	MC0841200-19	Lock Ring
1	MC0841200-25	Lock Ring
2	MS28782-32	Packing Retainer
1	MCS2418-1	Scraper Ring
1	MS28775-010	O-ring
1	MS28775-221	O-ring
1	MS28775-225	O-ring
1	MS28775-228	O-ring
1	MS28775-329	O-ring

### Maintenance Tip:

#### Cessna Strut Seal Failure

Strut seal leaks and flat struts can be caused by roll or twist of the main O-ring seal. It is very frustrating to carefully check all the parts and surfaces and put a new seal kit in the strut only to find it flat again after a relatively short time.

We have seen this happen when a film of MIL-5606 hydraulic fluid dries out on the exposed chrome strut shaft. MIL-5606 by nature has a tendency to get sticky as it is exposed to air and dirt and then dry. Very slight dried oil films are sometimes hard to detect and they can get past the plastic wiper seal. When this happens the sticky strut has a tendency to grab the O-ring and roll or twist it when the strut slides in or out causing the seal to distort. A very small O-ring twist or distortion will cause a leak. This phenomena is aggravated by the low pressure that the Cessna strut is designed for. Wipe the chrome strut down with Stoddard solvent (mineral spirits) periodically to soften and remove any dried oil film, dirt, dust and bugs.

# Landing Gear and Nose Wheel Steering Parts

## Main and Nose Strut Seal Kits for Piper and Beech Aircraft

Kits contain MIL-SPEC and industry standard seals and components and do not require FAA-PMA approval.

Aircraft	Main Strut P/N	Nose Strut P/N
B-33, F-33, V-35B, 36, A36, G36, A36TC, B36TC	JMBZMS	JMBZNS
PA22 S/N 22-1 thru 22-7642 and 22-8000 thru 22-9000	JMPA23	JMPA22
Apache/Aztec	JMPA23	JMPA23
PA24	JMPA24M	JMPA24N
PA30	JMPA30M	JMPA30N
PA28-140, 150, 151, 160, 161, 180, 181 & 235 and PA32-260 & 300	JMPMS1	JMPNS1
PA28R, PA32R-300, 301 & 301T	JMPRMS1	JMPRNS1
PA34-200, 200T, PA44-180, 180T	JMPA34	JMPA34



Manufactured by J&M Aircraft Supply

**New!  
Kits for  
Beech  
Aircraft**

## Landing Gear Box Shims

Save \$\$\$

**P/N AD0441023-2**

Tapered shim, 2-4 per aircraft

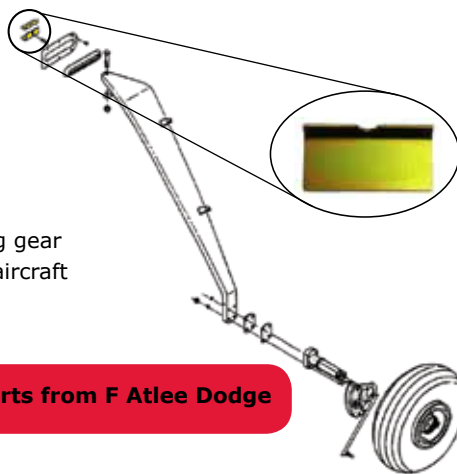
**P/N AD0741022-1**

.040 shim, used as required

**P/N AD0741022-2**

.050 shim, used as required

- For Cessna aircraft using leaf spring landing gear
- Used on most Cessna 120 thru 195 series aircraft
- 4130N steel, plated
- FAA-PMA



See page 181 for more landing gear parts from F Atlee Dodge

Manufactured by F Atlee Dodge

## Main Gear Scraper Ring

**P/N MS28776M2-18**

**Fits Piper Models**

PA28-140,150,151,161,  
PA28-180,181,235,236,  
PA32-260,300



## Main Gear Quad Ring

**P/N CA484-769**

**Fits Piper Models**

PA28-140,150,151,160,161,  
PA28-180,181,235,236,201T,  
PA32,PA32-260,300,301,301T



## Nose Gear Quad Ring

**P/N CA484-770**

**Fits Piper Models**

PA28-140,150,151,160,161,  
PA28-180,181,235,236,  
PA32-260,300,301,301T



Manufactured by PMA Products Inc

## Axles for Cessna Aircraft

Don't lose an airplane because of a broken aluminum axle!

Now also in Titanium!

**Steel axle**

**P/N AF1441003-1**

- Weighs only 2.28 lbs
- Save hundreds of \$\$\$



**Titanium axle**

**P/N AF1441003-1T**

- Reduces weight by 2 lbs per A/C vs. steel axles
- Will not rust



Model	Serial Number
170, 170A,B	18000 thru 27169
180, 180A-H	30000 thru 18052284
182, 182A-S	33000 and On
T182, R182, TR182	1820001 thru R18202041
185, 185A-E, A185E-F	1850001 thru 18504448
206, U206, U206A-G, TU206A-G	206-0001 thru U20607020
P206, P206A-E, TP206A-E	P206-0001 thru P20600647
206H, T206H	All

Manufactured by Airforms, Inc.

## Main Gear Door Hinge Pin for Cessna Citation 550 and 560 Aircraft

**New!**

**P/N MS20253-2-2050**

- Corrosion resistant
- Two required per aircraft
- Direct replacement

Save \$\$



Manufactured by PMA Products Inc

## Wheel Pant Mounting Plates for Cessna Aircraft

**Part Numbers MC0441225-1, MC0441225-2, MC0541220-1 and MC0541220-2**

- Machined from high strength aluminum alloy
- Anodized for corrosion resistance
- Nut plates are riveted in place - ready to install!

### Maintenance Tip:

Wheel pant mounting plates commonly crack around the axle. If any cracks are present, they should be replaced. The cracks are caused by wheel pant vibration. Assure that the wheel pant axle bolts are tight. Proper wheel balance will lessen wheel pant vibration. See page 196 for a simple but effective wheel balancer.

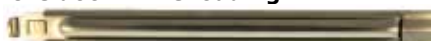


## Nose Baggage Compartment Cargo Door Up Latch for all Cessna 207 Aircraft

No more holding up the door while loading!

**P/N AF1213922-1**

- Improved strength
- Nickel plated for corrosion resistance



Manufactured by Airforms, Inc.

## High Strength Parts for Helio H-295 Courier Aircraft

Parts are manufactured from high strength material and machined from a single billet - stronger than original welded assemblies!

**Axle P/N AF250-040-495**

- Cad plated for increased durability
- Precision fit - drop in direct replacement
- Accommodates wheel-ski installation



Manufactured by Airforms, Inc.

Model	Serial Number	Left	Right
150L, M	15074851 thru 15079405	MC0441225-1	MC0441225-2
F150L, M	F15001014 thru F15001428	MC0441225-1	MC0441225-2
A150L, M	A1500430 thru A1500734	MC0441225-1	MC0441225-2
FRA150L, M	FRA1500212 thru FRA1500336	MC0441225-1	MC0441225-2
152	15279406 thru 15286033	MC0441225-1	MC0441225-2
A152	A1520735 thru A1521049	MC0441225-1	MC0441225-2
F152	F15201429 thru F15201980	MC0441225-1	MC0441225-2
FA152	FA1520337 thru FA1520425	MC0441225-1	MC0441225-2
172M, N, P, Q	17261899 thru 17276673	MC0541220-1	MC0541220-2
172R	17280001 and On	MC0541220-1	MC0541220-2
172S	172S80001 and On	MC0541220-1	MC0541220-2
F172M, N, P	F17201035 thru F17202254	MC0541220-1	MC0541220-2
FR172L, K	FR17200441 thru FR17200675	MC0541220-1	MC0541220-2
R172K	R1722000 thru R1723454	MC0541220-1	MC0541220-2

Partial model eligibility



## Wheel Bearings Cups and Cones

**FAA-PMA approved Timken wheel bearings for Goodyear, Cleveland, and McCauley wheels.**

- Class 2 aviation grade bearings (Timken designates these with a -20629 suffix)
- When landing the wheel bearings must go from Zero RPM to 1384 RPM, or more, instantaneously. Automotive bearings aren't designed for this type of service
- Tighter tolerance and higher quality control than Class 4 automotive bearings
- Save \$\$



### Don't be tempted to buy cheap automotive bearings

Because Timken uses the same part number for both the automotive and aviation versions of these bearings, many people mistakenly use the lower quality automotive bearings in their airplane. It is critical that the FAA-PMA Class 2 version be used for aircraft applications for two reasons:

- They are a higher class of bearing with tighter tolerance and have been subjected to more stringent quality control procedures. Due to the smaller diameter of aircraft wheels, at a given ground speed the bearings rotate at a much higher RPM and require the tighter tolerances to prevent premature failure. Example: At a 70 mph touchdown speed (equivalent to highway speed of a car), a typical 17 inch diameter airplane tire is rotating at 1384 RPM, whereas a typical 27 inch car tire is only rotating at 871 RPM. So even though the aircraft bearing is only subject to intermittent use, some of the performance demands are much higher than a typical automotive application.
- It is a violation of FAA regulations to use non-approved automotive bearings on certified aircraft.

**See the table on the next page to find the correct bearing for your wheels.**

## Wheel Seal Kits

**Finally an alternative for replacement seals!**

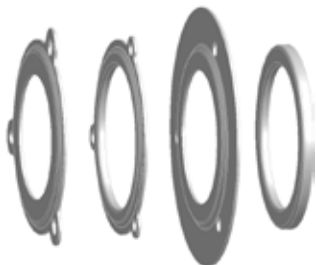
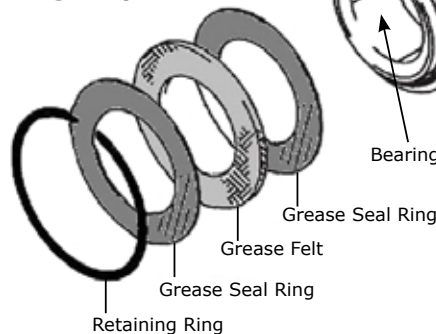
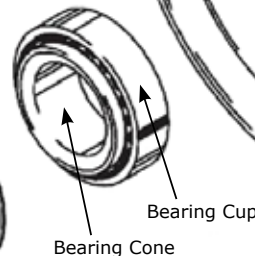
**FAA-PMA approved seals for Goodyear, Cleveland, and McCauley wheels.**

### Convenient Kits

- Each contains everything required to service one wheel: grease seal rings, plates and felts; even screws and washers when required.
- We have done the research so you don't have to!
- Only available from McFarlane.
- Hard to find parts in stock.
- Save \$\$
- Components also available separately.

**See the table on the next page to find the correct kit and components for your wheels.**

**See our web site for aircraft eligibility. We are continually adding additional part numbers and eligibility.**



**Hard to find grease seal rings!**

Grease Seal Ring			
Part Number	ID	OD	Thickness
MC153-00100	1-9/16	2-23/64	1/32
MC153-00300	1-33/64	2-1/2	0.034
MC153-00400	1-45/64	2-5/8	1/32
MC153-00800	1-53/64	2-23/64	1/32
MC153-00900	1-13/16	2-5/8	0.028
MC153-30013	1-11/16	2-39/64	1/32
MC153-30015	1-17/32	2-35/64	1/32

Retaining Ring			
Part Number	Width	OD	Thickness
MC155-00100	9/64	2-3/4	1/32
MC155-00200	9/64	2-1/2	0.025
MC155-00600	1/8	2-11/64	0.028
MC155-11800	5/32	2-1/2	1/32
MC155-11900	5/32	2-3/4	1/32

**FAA-PMA Approved**

Grease Felt			
Part Number	ID	OD	Thickness
MC154-00300	1-5/8	2-5/8	1/8
MC154-00400	1-19/32	2-15/32	1/8
MC154-00600	1-3/4	2-13/32	1/8
MC154-00800	1-45/64	2-5/8	1/8
MC154-00900	2-1/8	2-7/16	1/8
MC154-01300	2-1/8	2-1/2	3/16
MC154-01400	1-45/64	2-19/32	1/8
MC154-30010	2-1/8	2-17/32	1/8

**FAA-PMA Approved**

Bearing Cups FAA-PMA Approved		
Part Number	OD	Width
07196	1.9687	0.3750
07204	2.0470	0.5000
08231	2.3125	0.4219
13830	2.5000	0.3750
13836	2.5625	0.3750
A4138	1.3775	0.3437
LL217810	4.7812	0.4375
LM29710	2.5625	0.5500
LM67010	2.3280	0.4650

Bearing Cones FAA-PMA Approved		
Part Number	Bore	Inner Ring Width
07100	1.0000	0.5614
08125	1.2500	0.5937
13889	1.5000	0.4688
A4050	0.5000	0.4326
LL217849	3.5000	0.5938
LM29749	1.5000	0.7200
LM67048	1.2500	0.6600

**New! FAA-PMA approval has been received on parts indicated with 1.**

**Dimensions are approximate and for identification only. All dimensions are in inches.**



**Wheel Seal Kits**

Kit P/N	Qty	Part Number	Description
WH-KT-2	1	MC154-00300	Grease Felt
	1	MC154-01300	Grease Felt
	1	MC153-00300	Grease Seal Plate
	2	MC153-00400	Grease Seal Plate
	1	MC153-01500	Grease Seal Plate
	2	MC155-00100	Grease Seal Ring
WH-KT-3	1	MC154-00300	Grease Felt
	1	MC154-01300	Grease Felt
	1	MC153-00300	Grease Seal Plate
	2	MC153-00400	Grease Seal Plate
	2	MC155-00200	Grease Seal Ring
WH-KT-5	1	MC154-00300	Grease Felt
	2	MC154-30010	Grease Felt
	1	MC153-30013	Grease Seal Plate
	1	MC153-30014	Grease Seal Plate
	2	MC155-11900	Grease Seal Ring
WH-KT-8	1	MC154-00400	Grease Felt
	1	MC153-00500	Grease Seal Plate
	1	MC156-00100	Grease Seal Plate
	6	MS35265-45	Screw, Drilled
	6	MS35333-38	Lock Washer

Kit P/N	Qty	Part Number	Description	
WH-KT-10	1	MC154-00400	Grease Felt	
	1	MC154-00900	Grease Felt	
	1	MC153-00300	Grease Seal Plate	
	1	MC153-00500	Grease Seal Plate	
	1	MC153-01000	Grease Seal Plate	
	6	MS35265-45	Screw, Drilled	
	6	MS35333-38	Lock Washer	
	WH-KT-11	1	MC154-00400	Grease Felt
		1	MC154-00900	Grease Felt
		1	MC153-00300	Grease Seal Plate
1		MC153-00500	Grease Seal Plate	
1		MC153-01000	Grease Seal Plate	
1		MC156-00100	Grease Seal Plate	
6		MS35265-45	Screw, Drilled	
6		MS35333-38	Lock Washer	
WH-KT-15		1	MC154-00600	Grease Felt
		2	MC153-00800	Grease Seal Plate
	2	MC155-00200	Grease Seal Ring	
	1	MC154-01400	Grease Felt	
WH-KT-22	2	MC153-00900	Grease Seal Plate	
	2	MC155-00100	Grease Seal Ring	
	1	MC154-03000	Molded Seal	
WH-KT-28	1	MC155-00100	Grease Seal Ring	
	1	MC155-00600	Grease Seal Ring	

Kit P/N	Qty	Part Number	Description
WH-KT-34	2	MC154-00600	Grease Felt
	4	MC153-00800	Grease Seal Plate
	2	MC155-00200	Grease Seal Ring
WH-KT-38	2	MC154-00900	Grease Felt
	2	MC153-00100	Grease Seal Plate
	2	MC153-01000	Grease Seal Plate
	6	MS35265-45	Screw, Drilled
WH-KT-39	6	MS35333-38	Lock Washer
	2	MC154-01300	Grease Felt
	2	MC153-00300	Grease Seal Plate
	2	MC153-01500	Grease Seal Plate
	2	MC155-00100	Grease Seal Ring
WH-KT-42	2	MC154-03000	Molded Seal
	2	MC155-00100	Grease Seal Ring
WH-KT-51	2	MC154-00600	Grease Felt
	2	MC153-00300	Grease Seal Plate
	2	MC153-01500	Grease Seal Plate
	2	MC155-00100	Grease Seal Ring



**Wheel to Seal Kit and Bearing Cross Reference**

Wheel Manufacturer	Wheel Manufacturer P/N	Cessna Wheel P/N	Wheel Seal Kit P/N	Bearing Cone P/N	Bearing Cup P/N
CLEVELAND	040-07502	C163001-0301	WH-KT-3	13889	13836
CLEVELAND	40-75B	C163001-0301	WH-KT-3	13889	13836
CLEVELAND	40-101	C163001-0601	WH-KT-22	LM29749	LM29710
CLEVELAND	40-101A		WH-KT-22	LM29749	LM29710
CLEVELAND	40-113	C163001-0104	WH-KT-2	13889	13836
CLEVELAND	40-12	0441179-2	WH-KT-15	08125	08231
CLEVELAND	40-140A	9910194-8	WH-KT-39	13889	13836
CLEVELAND	40-142	C163001-0701	WH-KT-2	13889	13836
CLEVELAND	40-177A	C163001-0901	WH-KT-42	13889	13836
CLEVELAND	40-179	040-17900	WH-KT-42	LM29749	LM29710
CLEVELAND	40-18	0441179-14	WH-KT-34	08125	08231
CLEVELAND	40-19	0441156-13	WH-KT-15	08125	08231
CLEVELAND	40-20	0441156-14	WH-KT-34	08125	08231
CLEVELAND	40-21	0441156-15	WH-KT-10	13889	13836
CLEVELAND	40-32	0741026-3	WH-KT-8	13889	13836
CLEVELAND	40-35	0743001-4	WH-KT-34	08125	08231
CLEVELAND	40-40A	5041016-3	WH-KT-28	LM29749 and 07100	LM29710 and 07196
CLEVELAND	40-40D	5041016-5	WH-KT-28	LM29749 and 07100	LM29710 and 07204
CLEVELAND	40-55	0441156-16	WH-KT-38	13889	13836
CLEVELAND	40-57	0441156-17	WH-KT-11	13889	13836
CLEVELAND	40-66	0441156-18	WH-KT-8	13889	13836
CLEVELAND	40-67	0441156-19	WH-KT-11	13889	13836
CLEVELAND	40-68	0441156-20	WH-KT-34	08125	08231
CLEVELAND	40-75	1241156-10	WH-KT-3	13889	13836
CLEVELAND	40-75B	040-07502, 1241156-10	WH-KT-3	13889	13836
CLEVELAND	40-75D	C163001-0302	WH-KT-3	13889	13836
CLEVELAND	40-75T	040-07518-1	WH-KT-3	13889	13836
CLEVELAND	40-76	1241156-11	WH-KT-51	13889	13836
CLEVELAND	40-76A	1241156-11	WH-KT-39	13889	13836
CLEVELAND	40-76B	0441156-16	WH-KT-42	13889	13836
CLEVELAND	40-77	1241156-12, 0441156-14, 0441156-20, 0441179-14, 0743001-4	WH-KT-34	08125	08231
CLEVELAND	40-78	1241156-13	WH-KT-34	08125	08231
CLEVELAND	40-79	1241156-14	WH-KT-2	13889	13836
CLEVELAND	40-79A	1241156-14	WH-KT-2	13889	13836
CLEVELAND	40-96E	C163001-0401	WH-KT-2	13889	13836
CLEVELAND	40-97	C163001-0102	WH-KT-2	13889	13836
CLEVELAND	40-97A	C163001-0102, C163001-0103	WH-KT-2	13889	13836
CLEVELAND	40-98A	C163001-0501	WH-KT-2	13889	13836
CLEVELAND	40-98H	C163001-0801	WH-KT-2	13889	13836
GOODYEAR	9532522	0541183-9		13889	13830
GOODYEAR	9532673	0541160-13		13889	13830
GOODYEAR	511960S	0441016-1		13889	13830

Continued on next page



# Brake and Wheel Parts



**McFarlane**

FAA-PMA Approved

Eligibility continued from previous page

Wheel Manufacturer	Wheel Manufacturer P/N	Cessna Wheel P/N	Wheel Seal Kit P/N	Bearing Cone P/N	Bearing Cup P/N
GOODYEAR	95-3472	0441016-1		13889	13830
GOODYEAR		0441150-8		LL217849	LL217810
GOODYEAR		0441150-9		LL217849	LL217810
GOODYEAR		0541116-2		LL217849	LL217810
GOODYEAR		0541116-3		LL217849	LL217810
MCCAULEY	C30480	C163003-0401		LM67048	LM67010
MCCAULEY	D30065	C163002-0101		LM29749	LM29710
MCCAULEY	D30256	C163003-0101		LM29749	LM29710
MCCAULEY	D30291-1	C163004-0101	WH-KT-5	LM29749	LM29710
MCCAULEY	D30291-2	C163004-0102	WH-KT-5	LM29749	LM29710
MCCAULEY	D30291-3	C163004-0103	WH-KT-5	LM29749	LM29710
MCCAULEY	D30291-6	C163004-0104	WH-KT-5	LM29749	LM29710
MCCAULEY	D30500	C163002-0201, C163003-0201, C163005-0201	WH-KT-35	LM67048	LM67010
MCCAULEY	D30580	C163003-0102	WH-KT-5	LM29749	LM29710
MCCAULEY	D30660-1	C163002-0101, C163003-0101, C163005-0101, C163006-0101	WH-KT-5	LM29749	LM29710
MCCAULEY	D30660-2	C163006-0102	WH-KT-5	LM29749	LM29710
MCCAULEY	D30660-3	C163006-0103	WH-KT-5	LM29749	LM29710
MCCAULEY	D30665	9910194-1, C163002-0301, C163003-0301, C163003-0302, C163006-0201	WH-KT-42	LM29749	LM29710
		95-3472		13889	13830
		3244		A4050	A4138
		0441150-6		LL217849	LL217810
		0441150-7		LL217849	LL217810
		1241156-43		13889	13836

■ Cone P/N LM29749 and Cup P/N LM29710 are used on the outboard of the wheel and Cone P/N 07100 and Cup P/N 07196 or P/N 07204 are used on the inboard of the wheel.

Note: For FAA-PMA approved aircraft model eligibility, see [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com)

## McFarlane Aircraft Wheel Balancer

**Fast, accurate, affordable!**

**Part Number TOOL108**

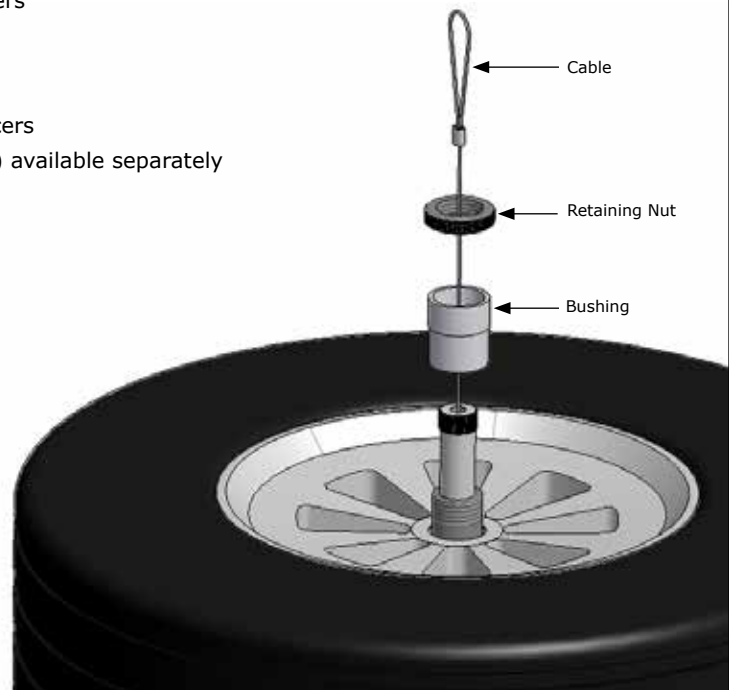
TOOL108 is a suspension wheel balancer with a patent pending design featuring a pivot point that is easily adjustable on-the-fly for maximum balance sensitivity. It is small enough to fit in a tool box and doesn't require a bulky stand. The McFarlane design is more precise than other static balancing methods, and allows the wheel to be balanced with the bearings and seals installed.

**It's fast and easy.** Due to the horizontal balancing orientation, test weights can be temporarily set in place and easily adjusted while balancing. This eliminates the need to tape the test weights. The McFarlane wheel balancer is precision machined with a black, hard anodized finish, and comes in an oiled wooden case. It includes bushings to accommodate both 1/4" and 1/2" axle sizes. This is a **lifetime tool** that fits almost all light aircraft wheel/tire assemblies.

- Adjustable pivot point for maximum sensitivity (Patent pending)
- More accurate than "bubble" or "axle and bearing" style balancers
- Portable – small enough to fit in your toolbox
- Does not require removal of bearings or seals
- Complete instructions included
- Less than half the price of bulky "axle and bearing" style balancers
- Replacement bushings (P/N 6625) and retaining nut (P/N 6649) available separately



**Coming Soon!  
New models  
for smaller and  
larger axles!**







FAA-PMA Approved

# Brake and Wheel Parts Brake Discs and Linings



## APS BlackSteel® Brake Discs and Linings

Improved braking performance with superior rust pit resistance

APS is a leading manufacturer of FAA-PMA replacement brake components. Their proprietary **BlackSteel** brake discs and linings are designed to provide optimal braking performance and strength with longer service life.

### Installation Tip:

One of the most important factors in disc and lining performance and safety margins is proper break-in.

For break-in procedures go to:

[www.mcfarlaneaviation.com/pdfDocuments/APSBreak-InProcedures.pdf](http://www.mcfarlaneaviation.com/pdfDocuments/APSBreak-InProcedures.pdf)



## APS BlackSteel® Brake Discs

State-of-the-art CNC machined from a one-piece forging

The high quality APS **BlackSteel** brake discs are CNC machined from one piece forgings, eliminating weld failures. When the metal is forged, it creates a directional grain flow that follows the contour of the disc. This allows for a much stronger disc that has a reduced risk of the cracking, distortion and catastrophic failures associated with inferior welded designs.

Proprietary heat treatment provides strength and corrosion resistance

**BlackSteel** discs are put through a proprietary heat treating process that strengthens the steel by bonding the carbon, oxygen, and nitrogen in the top layer of the metal. The process is not a coating, but a transformation of the top layer of the metal, providing corrosion resistance. The heat treatment gives the steel its black appearance and provides the surface with a high resistance to the corrosion and oxidation associated with the extreme thermal cycling experienced in aircraft braking systems. This makes it an excellent choice for agricultural aircraft that work in a harsh, chemical environment, as well as for anyone who leaves their aircraft outside most of the time.

The reduction of corrosion, pitting, rusting and longer service life result in enhanced safety, durability and value, while providing optimum braking performance and strength. APS discs can be used with APS lining or other PMA or OEM lining.

**A Truly Superior Product!  
Don't Buy Yesterday's Technology!**



P/N APS164-02706



P/N APS164-00300



P/N APS164-03006

## APS Brake Linings

Superior stopping power

Two types of brake linings are available: semi-metallic/organic (abrasive) and metallic (adherent).

The part number of the brake assembly as determined by the OEM dictates which type of lining is to be used.

APS linings can be used with APS discs or other PMA or OEM discs.

Semi-Metallic Brake Linings

The semi-metallic linings are made with Kevlar fibers integrated into the material, providing the greatest stopping power and long lining life. The optimal operating temperature of the semi-metallic linings is 600-900 deg F.

Metallic Brake Linings

APS metallic brake linings are constructed from an innovative design and durable materials, providing longer wear and superior stopping power for greater safety. The main ingredient in the metallic linings is iron. In an adherent system, a thin layer of lining material transfers and adheres to the disc during break-in. The optimal operating temperature range of the metallic linings is 950-1200 deg F.

**Improved!**



Top Lining  
P/N APS66-04400  
Bottom Lining



P/N APS66-10900



P/N APS66-10800



P/N APS66-10600



P/N APS66-02200

**Improved in 2012 to Break-In Easier and Last Longer!**

## APS Lining Retaining Rivets and Pins

Lining retaining pins are used on various metallic brake linings and rivets are used on various organic brake linings. Retaining pins are sold individually and rivets are sold in packages of 25.

Rivets and Pins			
Part Number	Description	Head Diameter	Shank Diameter
APS105-00200	Rivet	5/16"	5/32"
APS105-06700	Rivet	5/16"	3/16"
APS177-00300	Pin	5/16"	5/32"
APS177-00400	Pin	5/16"	3/16"
APS177-01600	Pin	3/8"	3/16"



P/N APS105-00200



P/N APS177-00300

**See the following pages for use eligibility**



# Brake and Wheel Parts Brake Discs and Linings



FAA-PMA Approved

### Brake Disc, Lining and Rivet Eligibility for Aircraft with Original Wheel and Brake Assemblies

Note: The wheel and brake assemblies on many aircraft have been changed. Verify the wheel and brake assembly part numbers on your aircraft to ensure proper selection. See the table on pages 131-132 for eligibility for aircraft with conversion kits installed.

Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Aer Res</b>							
J-2	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>Aerofab</b>							
LA-250 (6-Place) Renegade	All	40-74B	30-51B	APS164-00700	APS66-10600	4	APS105-00200
LA-4	246 and up <b>2</b>	40-113X	30-75X	APS164-04000	APS66-10500	2	APS105-00200
		40-74 or 40-74B	30-51 or 30-51B	APS164-00700	APS66-10600	4	APS105-00200
		40-74A	30-51	APS164-04700	APS66-10600	4	APS105-00200
<b>Aerospatiale/Socata</b>							
100,110,125,150,180 Series 110ST Calopin		40-97D	30-63J	APS164-02601	APS66-10500	2	APS105-00200
160ST Gamement, 180T Gairien, 180GT Gallaard	All	40-97D	30-63J	APS164-02601	APS66-10500	2	APS105-00200
220,236 Series, 235G Guerrier, 235GT Gabrier, 235CA Gaucho, TB20, 21 Trinidad	All	40-84	30-41B	APS164-01900	APS66-10600	4	APS105-00200
TB30 Epsilon	All	40-90B	30-23B	APS164-02201	APS66-06500	2	APS177-00300
TB9 Tampicp, TB10 Tobago, TB200	All	40-97E	30-63J	APS164-02601	APS66-10500	2	APS105-00200
<b>Aero Commander</b>							
112,112A	All	40-113A	30-79	APS164-04300	APS66-10500	2	APS105-00200
112B,112TC,112TCA,114, 114A,B	All	40-75H	30-52H	APS164-01501	APS66-10500	4	APS105-00200
<b>Air Tractor</b>							
AT-300,301,302	All	40-101	30-67X	APS164-03006	APS66-10800	4	APS105-00200
			30-89		APS66-10800	6	APS105-00200
AT-400	All	40-133	30-98C	APS164-05806	APS66-10800	12	APS105-00200
AT-400A	All	40-101	30-67X	APS164-03006	APS66-10800	4	APS105-00200
			30-89		APS66-10800	6	APS105-00200
AT-401,401A	All	40-234	30-184	APS164-05606	APS66-10800	8	APS105-00200
AT-402,501,502,503,503A	All	40-133	30-98C	APS164-05806	APS66-10800	12	APS105-00200
AT-602	All	40-403	30-231	APS164-22202	APS66-06600	12	APS177-00300
AT-802	All <b>2</b>	40-279	30-210	APS164-23001	APS66-13100	16	APS105-06700
		40-279A	30-210A	APS164-23002	APS66-13100	16	APS105-06700
<b>Aircraft Designs</b>							
Stallion		40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
<b>Amercan Champion</b>							
7ACA	All <b>2</b>	40-28D	30-19A	APS164-00500	APS66-10600	2	APS105-00200
		40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
7ECA, 7GCAA, 7GCBC, 7KCAB	All	40-28D	30-19A	APS164-00500	APS66-10600	2	APS105-00200
8GCBC Scout	All	40-47	30-32B	APS164-01100	APS66-10600	4	APS105-00200
8KCAB	All	40-28D	30-19A	APS164-00500	APS66-10600	2	APS105-00200
T-250 Aries		40-75G	30-52S	APS164-01501	APS66-10500	4	APS105-00200
<b>Arctic Aircraft</b>							
S1B2 Arctic Tern	001 thru 1021	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200
	1022 and up	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
<b>ASTA GAF (Nomad)</b>							
N22B, N22S	All	40-75T	30-52Q	APS164-08300	APS66-10500	4	APS105-00200
N24A	All <b>2</b>	40-75T	30-52Q	APS164-08300	APS66-10500	4	APS105-00200
		40-143	30-129	APS164-08200	APS66-06200	4	APS177-00300
<b>Avions Pierre Robin</b>							
140, 160	All	40-97D	30-52T	APS164-03601	APS66-10500	4	APS105-00200
DR400 Series	All	40-97D	30-63E	APS164-02601	APS66-10500	2	APS105-00200
HR100	All <b>2</b>	40-97D	30-63D or 30-63E	APS164-02601	APS66-10500	2	APS105-00200
			30-52N	APS164-03601	APS66-10500	4	APS105-00200
HR120	All	40-97D	30-63D or 30-63E	APS164-02601	APS66-10500	2	APS105-00200
HR200	All <b>2</b>	40-97D	30-63D or 30-63E	APS164-02601	APS66-10500	2	APS105-00200
			30-52N	APS164-03601	APS66-10500	4	APS105-00200
HR210	All	40-97D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
HR400 Series	All	40-97D	30-52T	N/A	APS66-10500	4	APS105-00200
R1000, R2000, R3000 Series	All	40-97D	30-63E	N/A	APS66-10500	2	APS105-00200
R2160	All	40-97A	30-63E	APS164-02601	APS66-10500	2	APS105-00200
<b>Ayres</b>							
S2R-PZL600 Thrush	R35-001 and up	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200
	1939 thru 2529R	40-129	30-94	APS164-05606	APS66-10800	8	APS105-00200
S2R-600 Thrush	2530R and up	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200
S2R-711 Turbo Thrush	T11-001 and up	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200
S2R-800 Thrush	5000R thru 5082R	40-129	30-94	APS164-05806	APS66-10800	8	APS105-00200
	5083R and up	40-133	30-98		APS66-10800	12	APS105-00200
S2RHG-T65 Turbo Thrush	All	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200
S2R-R1340, S2R-R1820, S2R-R3S	All	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200
S2R-T15 Turbo Thrush	All	40-133	30-98	APS164-05806	APS66-10800	12	APS105-00200
S2R-T34 Turbo Thrush	6000 and up	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200

**2** Must verify wheel or brake assembly P/N

Eligibility continued on next page.



FAA-PMA Approved

# Brake and Wheel Parts Brake Discs and Linings



Continued from previous page								
Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N	
<b>Ayres</b>								
S2R-T41 Turbo Thrush	T41-089 and 090	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200	
S2R-T65 Turbo Thrush	All	40-133	30-98D	APS164-05806	APS66-10800	12	APS105-00200	
<b>Beechcraft</b>								
M19A, B19 <sup>1</sup> A23, A23A, A23-19, A23-24 B23, C23 <sup>1</sup> A24R, B24R, C24R <sup>1</sup>	MB-461 thru MB-865 All M-1095 thru M-1979 MC-22 thru MC-536	40-113C	30-75B or 30-79A	APS164-04300	APS66-10500	2	APS105-00200	
33, A33	All	40-1	30-1	APS164-00900	APS66-11100	2	APS105-00200	
B33 <sup>1</sup>	CD-388 thru CD-639	40-37	30-24	APS164-00700	APS66-10600	4	APS105-00200	
F33A <sup>1</sup>	CE-301 thru CE-634	40-83	30-54	APS164-02505	APS66-10500	4	APS105-00200	
	CE635 thru CE-1071	40-83A	30-54C	APS164-02505	APS66-10500	4	APS105-00200	
F33C <sup>1</sup>	CJ-125 thru CJ-155	40-83A	30-54C	APS164-02505	APS66-10500	4	APS105-00200	
G33 <sup>1</sup>	CD-1272 thru CD-1304	40-83	30-54	APS164-02504	APS66-10500	4	APS105-00200	
V35B <sup>1</sup>	D-9862 thru D-10403	40-83	30-54A	APS164-02504	APS66-10500	4	APS105-00200	
36, A36 <sup>1</sup>	E-1 thru E-824	40-83	30-54	APS164-02505	APS66-10500	4	APS105-00200	
A36 <sup>1</sup>	E-825 thru E-3635	40-83A	30-54,54A,or 54C	APS164-02505	APS66-10500	4	APS105-00200	
A36TC, B36TC	EA-1 thru EA-695	40-83A or 40-83B	30-54A or 30-54C	APS164-02505	APS66-10500	4	APS105-00200	
	All	40-128D	30-93B	APS164-06106	APS66-09700	6	APS177-00300	
B55	TC-2092 thru TC-2180	40-128	30-93B	APS164-06106	APS66-04400	6	APS177-00300	
	TC-2181 thru TC-2456	40-98G	30-66G	APS164-02706	APS66-09700	4	APS177-00300	
C55, D55	All	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300	
	All	40-128D	30-93C	APS164-06106	APS66-09700	6	APS177-00300	
E55	TE-768 thru TE-1142	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300	
	TE-1143 thru TE-1201 <sup>2</sup>	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300	
56TC, A56TC	All	40-98G	30-66G	APS164-09700	APS66-09700	4	APS177-00300	
	All	40-98	30-69A	APS164-02706	APS66-02200	4	APS177-00300	
58	All	40-128D	30-93C	APS164-06106	APS66-09700	6	APS177-00300	
	TH-1 thru TH-972	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300	
	TH-973 thru TH-2124	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300	
	All	40-98G	30-66G	APS164-02706	APS66-09700	4	APS177-00300	
58P <sup>1</sup>	TJ-436 thru TJ-497	40-171	30-145	APS164-20806	APS66-09700	6	APS177-00300	
B60	All	40-171	30-145	APS164-20806	APS66-09700	6	APS177-00300	
76	All	40-83	30-54B	APS164-02504	APS66-10500	4	APS105-00200	
<b>Bellanca</b>								
17-30A, 17-31A, 17-31ATC	All	40-75E	30-52M	APS164-01501	APS66-10500	4	APS105-00200	
DW-1	All	40-101	30-89A	APS164-03006	APS66-10800	6	APS105-00200	
<b>Burkhart Grob</b>								
G103, G103C Twin II Sailplane	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200	
G109 Series Power Glider	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200	
<b>Cessna</b>								
120, 140, 140A	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200	
150A <sup>1</sup> ,B	15059119 thru 15059700	40-12	30-9	APS164-00400	APS66-10600	2	APS105-00200	
150C	All	40-57	30-40	APS164-00400	APS66-10600	2	APS105-00200	
150D,E	All	40-79A	30-40	APS164-01600	APS66-10600	2	APS105-00200	
150F,G	All	40-97	30-63	APS164-02601	APS66-10500	2	APS105-00200	
150H,J,K	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200	
150L <sup>1</sup> ,M <sup>1</sup>	15072004 thru 15074850 <sup>2</sup>	D-30063	C-30018	N/A	APS66-10900	2	APS105-00200	
	15074851 thru 15077403	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
	15077380, 15077402, 15077404 thru 15079113 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
		D30291-6	C30018 or C30018-4	APS164-30440	APS66-10900	2	APS105-00200	
A150K	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200	
A150L <sup>1</sup> , M <sup>1</sup>	A1500227 thru A1500429 <sup>2</sup>	D-30063	C-30018	N/A	APS66-10900	2	APS105-00200	
	A1500430 thru A15000641	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
A150M <sup>1</sup>	A15000642 thru A1500717 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
F150F,G	All	D30291-6	C30018 or C30018-4	APS164-30440	APS66-10900	2	APS105-00200	
F150H,J	All	40-97	30-63	APS164-02601	APS66-10500	2	APS105-00200	
F150K,L,M <sup>1</sup>	F1500530 thru F15001332	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200	
F150M <sup>1</sup>	F15001333 thru F15001418 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
		D30291-6	C30018-4	APS164-30440	APS66-10900	2	APS105-00200	
FA150K,L	All	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
FRA150L	All	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
152	All <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
		D30063	C-30018	N/A	APS66-10900	2	APS105-00200	
A152, F152	All	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Must verify wheel or brake assembly P/N

Eligibility continued on next page.





# Brake and Wheel Parts Brake Discs and Linings



FAA-PMA Approved

Continued from previous page							
Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Cessna</b>							
FA152	All <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30660-1	C-30018-5	APS164-30615-4	APS66-10900	2	APS105-00200
		D-30600-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
		D-30580	C-30018-4	APS164-30195	APS66-10900	2	APS105-00200
		D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
172 <sup>1</sup> , 172A,B,C	17246421 thru 17249544	40-113	30-75	APS164-04000	APS66-10900	2	APS105-00200
172D,E,F,G,H,I,K	All	40-97A	30-56, 30-63, 30-63A	APS164-02601	APS66-10500	2	APS105-00200
172L,M <sup>1</sup>	17259224 thru 17263458 <sup>2</sup>	40-97A	30-56, 30-63,	APS164-02601	APS66-10500	2	APS105-00200
		D-30063	C-30018-2	N/A	APS66-10900	2	APS105-00200
172M <sup>1</sup> ,N,P,Q,R,S	17263459 and on	40-113	30-63A, 30-75A	APS164-04000	APS66-10500	2	APS105-00200
		40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
172RG	All	D-30660-1	C-30018-6, C-30764-5	APS164-30615-4	APS66-10900	2	APS105-00200
F172F,G,H	All	40-97A	30-56, 30-63A	APS164-02601	APS66-10500	2	APS105-00200
F172K	All	40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
F172L	F17200805 thru F17200904	40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
F172M	F17200905 thru F17201514 <sup>2</sup>	40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
		D-30260, D30580	C-30018-2	APS164-30195	APS66-10900	2	APS105-00200
F172N <sup>1</sup>	F17201515 thru F17201639	D-30600-1	C-30018-6	N/A	APS66-10900	2	APS105-00200
		40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
F172N <sup>1</sup> ,P	F17201640 thru F17202254	D-30660-1	C-30018-6, C30764-6	APS164-30615-4	APS66-10900	2	APS105-00200
		40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
F172RG	All	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
FR172J <sup>1</sup>	FR17200351 thru FR17200590	D-30260	C-30018-2	APS164-30195	APS66-10900	2	APS105-00200
FR172K <sup>1</sup>	FR17200591 thru FR17200620	D-30600-1	C-30018-6	N/A	APS66-10900	2	APS105-00200
	FR17200621 thru FR17200675	D-30660-1	C-30018-6, C30764-6	APS164-30615-4	APS66-10900	2	APS105-00200
R172H <sup>1</sup>	R1720453 thru R1720603	D-30063	C-30018-2	N/A	APS66-10900	2	APS105-00200
175 <sup>1</sup> ,A,B	17555876 thru 17557119	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
177A,B <sup>1</sup>	17701165 thru 17701530	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
177B <sup>1</sup>	17701531 thru 17702123	40-113	30-45	APS164-04000	APS66-10500	2	APS105-00200
177B <sup>1</sup>	17702124 thru 17702313 <sup>2</sup>	40-113	30-45	APS164-04000	APS66-10500	2	APS105-00200
		D-30580	C-30018-4	APS164-30195	APS66-10900	2	APS105-00200
	17702314 thru 17702522 <sup>2</sup>	40-113	30-45	APS164-04000	APS66-10500	2	APS105-00200
		D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
	17702523 thru 17702672 <sup>2</sup>	40-113	30-45	APS164-04000	APS66-10500	2	APS105-00200
		D-30660-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
	17702673 thru 17702752 <sup>2</sup>	40-113	30-45	APS164-04000	APS66-10500	2	APS105-00200
		D-30660-1	N/A	APS164-30615-4	APS66-10900	2	APS105-00200
177RG	177RG0001 thru 177RG0592	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
	177RG0593 thru 177RG0787 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30580	C-30018-4	APS164-30195	APS66-10900	2	APS105-00200
	177RG0788 thru 177RG1051 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
	177RG1052 thru 177RG1266 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30660-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
	177RG1267 thru 177RG1366 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
F177RG	F177RG0001 thru F177RG0122 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
	F177RG0123 thru F177RG0138 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30580	C-30018-4	APS164-30195	APS66-10900	2	APS105-00200
	F177RG0139 thru F177RG0160 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
		D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
F177RG0161 thru F177RG0177 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200	
180G	All	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
180H <sup>1</sup>	18051775 thru 18051993	40-66	30-21	APS164-00700	APS66-10600	4	APS105-00200
	18052011 thru 18052284	40-75D	30-52D, 30-52N	APS164-03601	APS66-10500	4	APS105-00200
180J <sup>1</sup>	18052285 thru 18052500 <sup>2</sup>	D-30063-1	C-30018-1	N/A	APS66-10900	2	APS105-00200
		D30291-3	C30118-4	APS164-30414	APS66-10900	2	APS105-00200
		40-75B	30-52D	APS164-01501	APS66-10500	2	APS105-00200
		40-75D	30-52N	APS164-03601	APS66-10500	2	APS105-00200
		40-75B	30-52D	APS164-01501	APS66-10500	2	APS105-00200
180J <sup>1</sup> ,K <sup>1</sup>	18052501 thru 18052924 <sup>2</sup>	40-75D	30-52N	APS164-03601	APS66-10500	2	APS105-00200
		D30291-3	C30118-4	APS164-30414	APS66-10900	2	APS105-00200
		40-75B	30-52D	APS164-01501	APS66-10500	2	APS105-00200
180K <sup>1</sup>	18052925 thru 18053203 <sup>2</sup>	40-75D	30-52N	APS164-03601	APS66-10500	2	APS105-00200
		D30660-2	C30118-5	APS164-30615-2	APS66-10900	2	APS105-00200
		40-97A	30-63A, 30-56A	APS164-02601	APS66-10500	2	APS105-00200
182B <sup>1</sup> ,C,D,E,F,G,H,I,K,L,M,N <sup>1</sup>	18251886 thru 18260445	40-97A	30-63A, 30-56A	APS164-02601	APS66-10500	2	APS105-00200
182N <sup>1</sup>	18260446 thru 18260825	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Must verify wheel or brake assembly P/N

Eligibility continued on next page.



FAA-PMA Approved

# Brake and Wheel Parts Brake Discs and Linings



Continued from previous page							
Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Cessna</b>							
182P <sup>1</sup>	18260826 thru 18264295	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
	18264296 thru 18265175 <sup>2</sup>	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
182Q <sup>1</sup>	18265176 thru 18265328 <sup>2</sup>	D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
		40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
	18265329 thru 18265965 <sup>2</sup>	D-30600-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
		40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
	18265966 thru 18267715 <sup>2</sup>	D-30600-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
		D30660-1	C-30018-5	APS164-30615-4	APS66-10900	2	APS105-00200
182R <sup>1</sup>	18267716 thru 18268541	D30660-3	D30118-4	APS164-30615-3	APS66-10900	2	APS105-00200
182S,T, T182T	All	40-75B	30-52E	APS164-01501	APS66-10500	4	APS105-00200
F182P	All	D-30291-6	C-30018-4	APS164-30440	APS66-10900	2	APS105-00200
F182Q <sup>1</sup>	F18200026 thru F18200064	D-30600-1	C-30018-5	N/A	APS66-10900	2	APS105-00200
F182Q <sup>1</sup>	F18200065 thru F18200169	D-30660-1	C-30018-5	APS164-30615-4	APS66-10900	2	APS105-00200
FR182, R182, TR182, T182	All	D-30660-3	D-30118-3	APS164-30615-3	APS66-10900	4	APS105-00200
185, 185A	All	40-32	30-21	APS164-00700	APS66-10600	4	APS105-00200
185B	All	40-66	30-21	APS164-00700	APS66-10600	4	APS105-00200
185C,D,E	185-0654 thru 185-1149	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
A185E <sup>1</sup>	185-1150 thru 18502090 <sup>2</sup>	40-66	30-21	APS164-00700	APS66-10600	4	APS105-00200
		40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
		40-75D	30-52D	APS164-03601	APS66-10500	4	APS105-00200
A185F	All <sup>2</sup>	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
		40-75D	30-52D	APS164-03601	APS66-10500	4	APS105-00200
		D-30291-3	D-30118-5	APS164-30414	APS66-10900	4	APS105-00200
		D-30291-1	D-30118-5	APS164-30388	APS66-10900	4	APS105-00200
		D-30660-2	D-30118-5	APS164-30615-2	APS66-10900	4	APS105-00200
188, 188A, 188B, A188, A188A	188-0001 thru 18801040 <sup>2</sup>	40-75B	30-52B	APS164-01501	APS66-10500	4	APS105-00200
		40-101A	30-67	APS164-03106	APS66-10800	4	APS105-00200
A188B <sup>1</sup> , T188C	18801041 thru 18803521 <sup>2</sup> 18801041T thru T18803521T <sup>2</sup>	40-101	30-67A	APS164-03006	APS66-10800	4	APS105-00200
		40-101A	30-67A	APS164-03106	APS66-10800	4	APS105-00200
		40-98A	30-66A	APS164-02707	APS66-11000	4	APS105-00200
		40-67	30-35	APS164-00700	APS66-10600	4	APS105-00200
210-5 (205)	All	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
210-5A (205A)	All	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
206,U206,A,B,C,D <sup>1</sup>	206-0001 thru U206-1256	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
U206D <sup>1</sup> ,E	U2061257 thru U20601700 <sup>2</sup>	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
		40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
U206F <sup>1</sup>	U20601701 thru U20602199 <sup>2</sup>	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
		40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
		D-30291-1	D-30118-6	APS164-30388	APS66-10900	4	APS105-00200
U206F,G	U20602200 thru U20604649 <sup>2</sup>	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
		D-30291-1	D-30118-6	APS164-30388	APS66-10900	4	APS105-00200
		D-30660-2	D-30118-6	APS164-30615-2	APS66-10900	4	APS105-00200
	U20604650 thru U20607020 <sup>2</sup>	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
		D-30660-2	D-30118-6	APS164-30615-2	APS66-10900	4	APS105-00200
206H,T206H	All	40-75B	30-52U	APS164-01501	APS66-10500	4	APS105-00200
P206, P206A,B,C,D <sup>1</sup>	P206-0001 thru P206-0566	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
P206D,E <sup>1</sup>	P206-0557 thru P20600647	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
207, 207A, T207, T207A	All <sup>2</sup>	40-75B	30-52F	APS164-01501	APS66-10500	4	APS105-00200
		40-75D	30-52A	APS164-03601	APS66-10500	4	APS105-00200
208, 208A,B	All	40-179	30-163 or 30-182	APS164-22201	APS66-03300	8	APS177-00300
210C	21058086 thru 21058220	40-21	30-45	APS164-00900	APS66-11100	2	APS105-00200
210D,E,F,G,H,J,K,L <sup>1</sup>	21058221 thru 21060089 <sup>2</sup>	40-75B	30-52 or 30-52V	APS164-01501	APS66-10500	4	APS105-00200
		D-30291-2	D-30118-4	APS164-30398	APS66-10900	4	APS105-00200
210L <sup>1</sup> ,M,N,R	21060090 thru 21065009 <sup>2</sup>	40-75B	30-52 or 30-52V	APS164-01501	APS66-10500	4	APS105-00200
		D-30291-2	D-30118-4	APS164-30398	APS66-10900	4	APS105-00200
		D-30660-3	D-30118-4	APS164-30615-3	APS66-10900	4	APS105-00200
P210N,R	All <sup>2</sup>	40-75B	30-52V	APS164-01501	APS66-10500	4	APS105-00200
		40-142	30-127C	APS164-07800	APS66-06200	4	APS177-00300
T210F,G,H,J	All	40-75 or 40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
303, T303	All <sup>2</sup>	40-142	30-127C	APS164-07800	APS66-06200	4	APS177-00300
		40-98H	30-66F	APS164-08406	APS66-04400	4	APS177-00300
305	All <sup>2</sup>	40-75F	30-52L	APS164-01501	APS66-10500	4	APS105-00200
		40-97E	30-63K	APS164-02601	APS66-10500	2	APS105-00200
310R <sup>1</sup>	310R0501 thru 310R2140 <sup>2</sup>	40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-00400
		40-40D	30-28B	APS164-20206	APS66-03300	6	APS177-00400
335	All	40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-00400

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Must verify wheel or brake assembly P/N

Eligibility continued on next page.



# Brake and Wheel Parts Brake Discs and Linings



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Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Cessna</b>							
336	3360001 thru 3360098	40-67	30-35	APS164-00700	APS66-10600	4	APS105-00200
	3360099 and up	40-75B	30-52	APS164-01501	APS66-10600	4	APS105-00200
337, 337A	All	40-96A	30-61	APS164-02504	APS66-10500	4	APS105-00200
337B <sup>1</sup> , C, D	3370526 thru 337-0619	40-96A	31-61A	APS164-02504	66-03600 <sup>2</sup>	4	APS105-00200
	3370526 thru 3371193	40-96A	31-61D	APS164-02504	APS66-10500	4	APS105-00200
337E	All	40-98A	30-69B	APS164-02707	APS66-02200	4	APS177-00300
340, 340A <sup>1</sup>	340-0001 thru 340A1200	40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-00400
340A <sup>1</sup>	340A1201 thru 340A1817	40-40D	30-28B	APS164-20206	APS66-03300	6	APS177-00400
401 Series	All	40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-00400
402, A, B <sup>1</sup>	4020001 thru 402C0400	40-135	30-100	APS164-06406	APS66-06600	8	APS177-01600
402B, C <sup>1</sup>	402C0401 thru 402C1020 <sup>2</sup>	40-135	30-100	APS164-06406	APS66-06600	8	APS177-01600
		40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
404	All	40-132	30-97	APS164-09100	APS66-06400	8	APS177-01600
411, 411A <sup>1</sup>	All <sup>2</sup>	40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-00400
414	All	McCauley	N/A	N/A	APS66-06600		APS177-01600
414A <sup>1</sup>	414A0001 thru 414A0600 <sup>2</sup>	40-135	30-100	APS164-06406	APS66-06600	8	APS177-01600
		40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-01600
	414A0601 thru 414A1212 <sup>2</sup>	40-135	30-100	APS164-06406	APS66-06600	8	APS177-01600
		40-40A	30-28B	APS164-00806	APS66-03300	6	APS177-01600
		40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
421C <sup>1</sup>	421C0001 thru 421C0910	40-135	30-100	APS164-06406	APS66-06600	8	APS177-01600
	421C1001 thru 421C1807	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
425	All	40-138 or 40-138A	30-113 or 30-113A	APS164-05500	APS66-06400	8	APS177-01600
<b>Cirrus Design Group</b>							
SR-20	1601 and up	40-75P	30-52AB	APS164-01501	APS66-10500	4	APS105-00200
SR-22	1740 and up	40-406	30-233B	APS164-02504	APS66-06200	4	APS177-00300
<b>Daimler Benz/ M.B.B.</b>							
B.O. 209 Monsun	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>Diamond Aircraft</b>							
DA20	All	40-78E	30-9D	APS164-24200	APS66-10600	2	APS105-00200
DA40	All	40-14A	30-239	APS164-24400	APS66-14100	2	APS105-00200
DA42 Twin Star	All	40-75Z	30-52Z	APS164-01501	APS66-10500	4	APS105-00200
<b>Eagle Aircraft</b>							
220, 300 Eagle	All	40-101	30-89A	APS164-03006	APS66-10800	6	APS105-00200
<b>Explorer Aeronautique</b>							
Private Explorer Float	All	40-101	30-67B	APS164-03006	APS66-10800	4	APS105-00200
<b>FFA Flugzeugwerke</b>							
AS202-18A4 Bravo	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
<b>Found Brothers</b>							
100 Centennial	All	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
<b>GAF Australia</b>							
N22B, N22S	All	40-75T	30-52Q	APS164-08300	APS66-10500	4	APS105-00200
N24A	All <sup>2</sup>	40-75T	30-52Q	APS164-08300	APS66-10500	4	APS105-00200
		40-143	30-129	164-08200 <sup>3</sup>	APS66-06200	4	APS177-00300
<b>General Aviation (Italy)</b>							
F.20 Pegaso, F.20TP condor	All	40-75G	30-52P	APS164-01501	APS66-10500	4	APS105-00200
F.22 Pinguino	All	40-151	30-164	APS164-08500	APS66-06200	2	APS177-00300
<b>Great Lakes</b>							
2T-1A	All	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
<b>Grob</b>							
G103, G103C	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
G109, G109B	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>Grumman</b>							
AA-1, AA-5	All	40-86A	30-55B	APS164-02000	APS66-10500	2	APS105-00200
AA-1A, AA-1B, AA-5A, AA-5B	All	40-88C	30-56B	APS164-02000	APS66-10500	2	APS105-00200
700	All	40-128C	30-93A	APS164-05006	APS66-02200	6	APS177-00300
450, 600	All	40-101	30-67	APS164-03006	APS66-10800	4	APS105-00200
G164	All	40-47	30-32C	APS164-01100	APS66-10600	4	APS105-00200
G164A	All	40-101	30-67	APS164-03006	APS66-10800	4	APS105-00200
G164B, G164C, G164D	All	40-133	30-84	APS164-05806	APS66-10800	8	APS105-00200
GA-7	All	40-90	30-23B	APS164-02201	APS66-06500	2	APS177-00300

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Must verify wheel or brake assembly P/N  
<sup>3</sup> OEM lining must be used  
<sup>4</sup> OEM disc must be used

Eligibility continued on next page.





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# Brake and Wheel Parts Brake Discs and Linings



Continued from previous page								
Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N	
<b>Helio</b>								
H-250, H-295, H-391, H-395	All <b>2</b>	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200	
		40-75E	30-52A	APS164-01501	APS66-10500	4	APS105-00200	
		40-75T	30-52N	APS164-08300	APS66-10500	4	APS105-00200	
		40-98A	30-66A	APS164-02707	APS66-10500	4	APS105-00200	
<b>Hunting Firecracker A/C</b>								
NDN1T Turbo Firecracker	All	40-120C	30-83A	N/A	APS66-06200	4	APS177-00300	
<b>Industria Unidas SA</b>								
A-9B Sparrow, Quail	All	40-99	30-41	APS164-02800	APS66-10600	4	APS105-00200	
<b>Marsh Aviation</b>								
G-164C-T Turbo Cat	All	40-133	30-84	APS164-05806	APS66-10800	8	APS105-00200	
S2R-T Turbo Thrush	All <b>2</b>	40-129 or 40-133	30-94	APS164-05606	APS66-10800	8	APS105-00200	
<b>Maule Air</b>								
M4, M5, M6 Series	All	40-97D	30-63E	APS164-02601	APS66-10500	2	APS105-00200	
M7, M9 Series	All	40-75D	30-52A or 30-52N	APS164-03601	APS66-10500	4	APS105-00200	
<b>Mcculloch</b>								
J-2 Helicopter	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200	
<b>Mooney</b>								
M10 Cadet	All <b>2</b>	40-97 or 40-97A	30-63 or 30-63A	APS164-02601	APS66-10500	2	APS105-00200	
M20A,B <b>1</b>	1401 thru 3466	40-24	30-5	APS164-00900	APS66-11100	N/A	APS105-00200	
M20C <b>1</b>	670001 thru 690098	40-86	30-56A	APS164-02000	APS66-10500	2	APS105-00200	
M20D	All	40-24	30-5	APS164-00900	APS66-11100	N/A	APS105-00200	
M20E <b>1</b>	101 thru 1308	40-24	30-5	APS164-00900	APS66-11100	N/A	APS105-00200	
	670001 thru 700061	40-86	30-56A	APS164-02000	APS66-10500	2	APS105-00200	
M20F <b>1</b>	660003 thru 700072	40-86	30-56A	APS164-02000	APS66-10500	2	APS105-00200	
M20G,J,K	All	40-86	30-56A	APS164-02000	APS66-10500	2	APS105-00200	
M20M	All	40-92A	30-65	APS164-02300	APS66-10500	4	APS105-00200	
<b>NDN Aircraft</b>								
NDN6 Fieldmaster	All	40-175	30-149	164-21100 <b>4</b>	APS66-06600	12	APS177-01600	
<b>Pacific Aerospace</b>								
FU24-954; FU24A-954	240, 247 and up	40-47	30-32C	APS164-01100	APS66-10600	4	APS105-00200	
08-600 Cresco	All	40-101	30-89	APS164-03006	APS66-10800	6	APS105-00200	
<b>Partenavia</b>								
P.64B, P.66B	All	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200	
P.66C-160, P.66T	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200	
P.68, P.68B, P.68C, P.68C-TC	All	40-142	30-127	APS164-07800	APS66-06200	4	APS177-00300	
<b>Partenavia</b>								
Series 300	All	40-163	30-139	APS164-20500	APS66-06200	8	APS177-00300	
<b>Performance Aircraft</b>								
Legend	All	40-96E	30-61E	APS164-02504	APS66-10500	4	APS105-00200	
<b>Pilatus Britten-Norman</b>								
BN-2 Series	All <b>2</b>	40-90F	30-23D	APS164-01506	APS66-06500	2	APS177-00300	
		40-90	30-23A	APS164-02201	APS66-06500	2	APS177-00300	
		40-90B	30-23C	APS164-02201	APS66-06500	2	APS177-00300	
		40-98F	30-66D	APS164-02706	APS66-02200	4	APS177-00300	
<b>Pilatus Britten-Norman</b>								
Defender 4000	All	40-128E	30-93E	164-23300 <b>4</b>	APS66-04400	6	APS177-00300	
<b>Piper</b>								
J-3, PA-11, PA-12, PA-14, PA-16	All	40-60	30-60	APS164-06700	APS66-10600	4	APS105-00200	
PA-18	All <b>2</b>	40-60	30-60	APS164-06700	APS66-10600	4	APS105-00200	
		40-84	30-41	APS164-01900	APS66-10600	4	APS105-00200	
PA-18-150, PA-18A-150	All	40-60	30-60	APS164-06700	APS66-10600	4	APS105-00200	
PA-20	All <b>2</b>	40-60	30-60	APS164-06700	APS66-10600	4	APS105-00200	
		40-84	30-41	APS164-01900	APS66-10600	4	APS105-00200	
PA-22	All	40-84	30-41	APS164-01900	APS66-10600	4	APS105-00200	
PA-22-108	All	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200	
PA-23-150, 160	All	40-3	30-13	159-00200 <b>4</b>	APS66-10600	4	APS105-00200	
PA-23-235	All	40-4	30-8	APS164-00206	APS66-10600	8	APS105-00200	
PA-E23-250 <b>1</b>	27-3738 thru 27-7554 and 27-7554139	40-116	30-72	APS164-03206	APS66-06500	4	APS177-00300	
		27-7554141 thru 27-7554149 and 27-7554138	40-116 or 40-131	30-96	APS164-05700	APS66-06200	8	APS177-00300
PA-24-180,250,260 <b>1</b>	24-1 thru 24-3306	40-5	30-12	159-00100 <b>4</b>	APS66-10600	4	APS105-00200	
		40-58	30-41	APS164-00900	APS66-10600	4	APS105-00200	
		40-84	30-41B	APS164-01900	APS66-10600	4	APS105-00200	
PA-25, PA-25-235	25-1 thru 25-1999	40-5	30-12	159-00100 <b>4</b>	APS66-10600	4	APS105-00200	
		25-2000 thru 25-4171	40-61	30-41	APS164-01300	APS66-10600	4	APS105-00200
		25-4172 and on	40-84A	30-41B	APS164-03300	APS66-10600	4	APS105-00200

**1** Partial model eligibility  
**2** Must verify wheel or brake assembly P/N  
**4** OEM disc must be used

Eligibility continued on next page.



# Brake and Wheel Parts Brake Discs and Linings



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Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Piper</b>							
PA-28-140	28-20002 thru 28-20520	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200
	28-20521 thru 28-7725290	40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-150	28-1 thru 28-1760	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200
PA-28-151	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-160	28-1761 thru 28-4377	40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-161	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-180 <sup>1</sup>	28-1 thru 28-1760	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200
	28-1761 thru 28-5869	40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
	28-7105001 thru 28-7505260	40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28R-180	All <sup>2</sup>	40-84	30-41	APS164-19000	APS66-10600	4	APS105-00200
		40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-181	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28R-200 <sup>1</sup>	28R-35001 thru 28R-7135109 28R-7135110 thru 28R-7635545	40-84	30-41	APS164-01900	APS66-10600	4	APS105-00200
		40-86 or 40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-201T, PA-28R-201	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28R-201T, PA-28RT-201	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-235	28-7410001 thru 28-7710089	40-86	30-55	APS164-02000	APS66-10500	2	APS105-00200
PA-28-236	All <sup>2</sup>	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-30	30-2 - 845 30-846 thru 30-2000	40-34	30-23	APS164-01000	APS66-06500	2	APS177-00300
		40-90	30-23	APS164-02201	APS66-06500	2	APS177-00300
PA-31-300,310 <sup>1</sup>	31-5 thru 31-7300962	40-102	30-68	APS164-03506	APS66-03300	6	APS177-00400
PA-31-325	All	40-102A	30-68A	APS164-04406	APS66-03300	6	APS177-00400
PA-31-350 <sup>1</sup>	31-5001 thru 31-8452021	40-102A	30-68A	APS164-04406	APS66-03300	6	APS177-00400
		40-130	30-95A	APS164-07906	APS66-06600	8	APS177-01600
PA-31-350 <sup>1</sup> (T-1020)	Heavy Duty Option 31-8253001 thru 31-8453021	40-141	30-123	APS164-07700	APS66-06800	12	APS177-01600
		40-130	30-95A	APS164-07906	APS66-06600	8	APS177-01600
PA-31T1,2,3 (T-1020)	All	40-106	30-106	APS164-03906	APS66-06800	16	APS177-01600
PA-32-260	Heavy Duty Option 32-1 thru 32-7300076 32-7400001 thru 32-7800008 <sup>2</sup>	40-120	30-63	AOS164-21600	APS66-06200	4	APS177-00300
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-32-300	Heavy Duty Option 32-40000 thru 32-7440000 32-7440001 thru 32-7940290 <sup>2</sup>	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-32R-300, PA-32RT-300	Heavy Duty Option All	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-32RT-300T	Heavy Duty Option 32R-7887002 thru 32R-7987126	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-32-301, PA-32-301T	Heavy Duty Option All	40-120C	30-83A	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-34-200	Heavy Duty Option 34-7250001 thru 34-7350353 34-7450001 thru 34-7450220 <sup>2</sup>	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90	30-65	APS164-02201	APS66-10500	4	APS105-00200
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-34-200T	Heavy Duty Option All	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-34-220T	Heavy Duty Option All	40-120	30-83A	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-36-285, PA-36-300, PA-36-375	All	40-101	30-67B	APS164-03006	APS66-10800	4	APS105-00200
PA-38-112	All <sup>2</sup>	40-78B	30-9B	APS164-01700	APS66-10600	2	APS105-00200
		40-59D	30-53A	APS164-06900	APS66-11200	2	APS105-00200
PA-39	All	40-90	30-23	APS164-02201	APS66-06500 <sup>3</sup> APS66-06200 <sup>3</sup>	2	APS177-00300
PA-44-180	Heavy Duty Option All	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
		40-90A	30-65	APS164-02300	APS66-10500	4	APS105-00200
PA-44-180T	All	40-120	30-83	APS164-21600	APS66-06200	4	APS177-00300
PA-46-310P, 350P	All	40-120C	30-83A	APS164-21600	APS66-06200	4	APS177-00300
PA-60-600,601,601P,700P	All	40-124	30-88	APS164-05006	APS66-02200	8	APS177-00300
<b>Pitts</b>							
A-1	All	40-60	30-60	APS164-06700	APS66-10600	4	APS105-00200
S-1S,2	All	40-79B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>SAAB-Scania</b>							
MF1-15, MF1-17	All	40-97D	30-63D	APS164-02601	APS66-10500	2	APS105-00200

<sup>1</sup> Partial model eligibility  
<sup>2</sup> Must verify wheel or brake assembly P/N  
<sup>3</sup> Use P/N APS66-06200 on the back plate and P/N APS66-06500 on the pressure plate.

Eligibility continued on next page



FAA-PMA Approved

# Brake and Wheel Parts Brake Discs and Linings



Continued from previous page							
Aircraft Model	Serial Number	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Sadler Aircraft</b>							
A-22 Lasa, 18-1000PV	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>Schleicher</b>							
ASW21, 20, 22, 23 Sailplane	All	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>Shaefer Aircraft mods</b>							
PA-31-350 Comanchero 500	All	40-195	30-158	APS164-21900	APS66-06800	12	APS177-01600
PA-31T Comanchero 750	All	40-106	30-106	APS164-03906	APS66-06800	16	APS177-01600
<b>SIAI Marchetti</b>							
SF.205	All	40-97E	30-63M	APS164-02601	APS66-10500	2	APS105-00200
SF.260, SF.260C	All	40-3	30-13	159-00200	APS66-10500	4	APS105-00200
SF.260SW	All	40-90A	30-65A	APS164-02300	APS66-10500	4	APS105-00200
<b>Slingsby Aviation</b>							
T67M	All	40-86B	30-55	APS164-02000	APS66-10500	2	APS105-00200
<b>Stinson</b>							
108, 108-1,2,3,5	108-1 and up	40-28	30-18	APS164-00500	APS66-10600	2	APS105-00200
<b>Stol Aircraft</b>							
UC-1	All	40-74	30-51A	APS164-00700	APS66-10600	4	APS105-00200
<b>Taylorcraft</b>							
F-19, F-21, F-21A ,F-22	All	40-86	32-55	APS164-02000	APS66-10500	2	APS105-00200
<b>Univair</b>							
A-2, A-2A	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
<b>Varga</b>							
2150A, 2180	VAC-50 and up	40-97E	30-63E	APS164-02601	APS66-10500	2	APS105-00200
<b>Waco</b>							
Meteor, Minerva, Vela	All	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
<b>Weatherly Aviation</b>							
201A, 201B, 201C	All	40-101	30-67D	APS164-03006	APS66-10800	4	APS105-00200
620, 620TP	1501 thru 1519	40-101	30-67D	APS164-03006	APS66-10800	4	APS105-00200
620A	1520 thru 1584	40-101	30-67D	APS164-03006	APS66-10800	4	APS105-00200
		40-101	30-89B	APS164-03006	APS66-10800	6	APS105-00200
620B	1550 and up	40-101		APS164-03006	APS66-10800	4	APS105-00200
	1520 and up	40-101 or 40-101E		APS164-03006	APS66-10800	6	APS105-00200
620TP	1520 thru 1584	40-101		APS164-03006	APS66-10800	6	APS105-00200
<b>Wing Aircraft</b>							
D-1	2 and up	40-84		APS164-01900	APS66-10600	4	APS105-00200

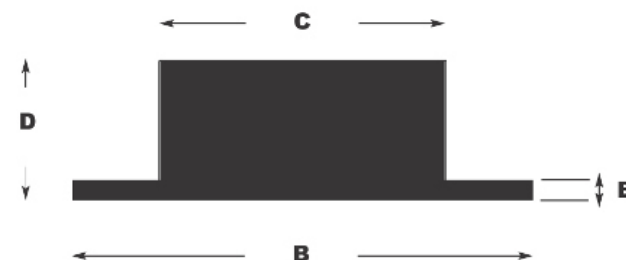
Ⓜ OEM disc must be used

## APS BlackSteel® Brake Disc Dimensions

Brake Disc P/N	B	C	D	E	F
	OD Wear	OD Base	Overall Height	Thickness Wear Surface	Number Bolt Holes
APS164-00206	7.31	5.52	1.50	.683	3 (1/4")
APS164-00300	7.50	5.49	2.16	.231	3 (5/16")
APS164-00400	6.36	4.51	1.71	.191	3 (1/4")
APS164-00500	7.30	5.52	1.97	.182	3 (1/4")
APS164-00700	7.30	5.53	2.25	.372	3 (1/4")
APS164-00806	11.63	9.52	2.42	.361	9 (1/4")
APS164-00900	7.30	5.52	2.03	.253	3 (1/4")
APS164-01000	7.50	5.53	2.10	.370	6 (1/4")
APS164-01100	7.50	5.53	2.17	.373	6 (5/16")
APS164-01300	7.31	5.53	2.29	.256	3 (1/4")
APS164-01406	11.63	9.34	2.32	.362	9 (1/4")
APS164-01501	7.49	5.49	2.34	.368	3 (5/16")
APS164-01506	7.50	5.48	2.37	.374	3 (5/16")
APS164-01600	7.31	5.48	2.18	.184	3 (5/16")
APS164-01700	6.36	4.47	2.06	.183	3 (1/4")
APS164-01900	7.30	5.49	2.09	.254	3 (5/16")
APS164-02000	7.49	5.49	2.16	.228	3 (5/16")
APS164-02201	7.49	5.49	2.25	.372	3 (5/16")
APS164-02300	7.49	5.49	2.25	.372	3 (5/16")
APS164-02504	7.49	5.49	2.36	.478	3 (5/16")
APS164-02505	7.49	5.60	2.47	.480	3 (5/16")
APS164-02601	7.59	5.50	2.22	.230	3 (5/16")
APS164-02706	9.62	7.37	2.42	.366	6 (5/16")
APS164-02707	9.62	7.35	2.53	.380	6 (21/64")
APS164-02800	7.31	5.53	2.03	.260	6 (1/4")
APS164-03006	11.62	9.35	2.49	.304	9 (1/4")
APS164-03106	11.63	9.35	2.50	.190	9 (1/4")
APS164-03206	7.50	5.20	1.50	.690	3 (1/4")
APS164-03300	7.313	5.50	2.38	.257	3 (5/16")
APS164-03506	11.63	9.34	4.22	.290	9 (1/4")
APS164-03601	7.49	5.49	2.62	.368	3 (5/16")
APS164-03906	11.81	9.34	2.46	.645	9 (5/16")
APS164-04000	7.49	5.49	2.18	.228	3 (1/4")
APS164-05806	11.62	9.35	2.72	.429	9 (5/16")
APS164-06106	9.62	7.49	2.65	.515	6 (3/8")
APS164-06700	7.35	5.48	2.38	.253	6 (1/4")
APS164-07200	11.81	8.28	2.66	.533	8 (23/64")
APS164-07700	11.90	9.35	2.41	.520	9 (5/16")

Brake Disc P/N	B	C	D	E	F
	OD Wear	OD Base	Overall Height	Thickness Wear Surface	Number Bolt Holes
APS164-07800	7.50	5.50	2.36	.484	6 (21/64")
APS164-07906	11.63	9.36	2.58	.500	9 (1/4")
APS164-08300	7.49	5.49	2.62	.371	6 (5/16")
APS164-08500	6.38	4.48	2.23	.371	3 (1/4")
APS164-09100	11.85	9.35	2.53	.535	9 (21/64")
APS164-20306	11.63	9.34	2.50	.504	9 (5/16")
APS164-21600	7.50	5.48	2.24	.431	6 (5/16")
APS164-22202	11.62	9.34	2.78	.567	9 (21/64")
APS164-22400	13.90	10.02	3.50	.430	9 (3/8")
APS164-24200	6.38	4.50	2.16	.190	3 (1/4")
APS164-24400	7.53	5.48	2.26	.320	3 (5/16")
APS164-24500	7.50	5.50	2.44	.371	6 (5/16")
APS164-30007	7.49	5.49	1.97	.221	6 (1/4")
APS164-30195	7.50	5.49	2.07	.225	6 (3/8")
APS164-30388	7.50	5.49	2.34	.355	6 (3/8")
APS164-30398	7.50	5.49	2.10	.355	6 (3/8")
APS164-30414	7.50	5.49	2.16	.355	6 (3/8")
APS164-30440	7.50	5.49	1.97	.215	6 (3/8")
APS164-30615-2	7.50	5.50	1.52	.215	6 (3/8")
APS164-30615-3	7.50	5.50	1.89	.355	6 (3/8")
APS164-30615-4	7.50	5.50	1.66	.355	6 (3/8")

This is not a complete list of all brake discs offered. Please visit [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for additional dimensions.







# Brake and Wheel Parts Brake Discs and Linings



FAA-PMA Approved

## Brake Disc, Lining, and Rivet Eligibility for Aircraft with Cleveland Conversion Kits Installed (Includes Experimental Aircraft)

Aircraft Model	Cleveland Kit P/N	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>Aero Commander</b>							
100 - 180 Lark	199-188	40-86A	30-56F	APS164-02000	APS66-10500	2	APS105-00200
<b>American Homebuilts</b>							
STOL	199-105C	40-113X	30-75X	APS164-04000	APS66-10500	2	APS105-00200
<b>Ayres</b>							
S-2R Thrush	199-68A	40-33	30-98A	APS164-05806	APS66-10800	12	APS105-00200
<b>Beechcraft</b>							
A23-19,19A,M19A, B19, 23,A23,A23A,B23,C23,A23-24,A24R	199-125	40-113C	30-75B	APS164-04300	APS66-10500	2	APS105-00200
D18C,S; E18S,E18S-9700, G18S,H18,C45G, TC-45G, RC-45J, TC-45H, 45J, UC-45J, JRB-6	199-127 199-141	40-170 40-21101	30-144B 30-170	APS164-20900 APS164-22400	APS066-09000 66-10000	8 8	APS177-01600 APS177-01600
35,A35,B35,C35,D35,E35,F35,G35,35R, 35-33, 35-A33,B33, C33, C33A,E33A,F33,F33A,C,G33, H35,J35,K35,M35,N35,P35,S35,V35, V35A,B; A36	199-49	40-83	30-54	APS164-02504	APS66-10500	4	APS105-00200
35,A35,B35,C35,D35,E35,F35,G35,35R,H35,J35,K35,M35, N35, P35,S35,45 (Ty-34), A45 (T34A), B45,D45 (T-34B),D55,D55A,E55, E55A,95,B95A, D95A, E95, 95-55, A55,B55,B55A,B55B,C55,C55A	199-50	40-98	30-66	APS164-02706	APS66-04400	4	APS177-00300
50,B50,C50,D50,D50A,B,C,E,E50,F50,G50,H50,J50	199-88	40-134A	30-99	APS164-06306	APS66-06600	8	APS177-00300
D55,D55A,E55,E55A,58,58A, 95, B95,B95A,D95A,E95,95-55, A55, B55,B55A,B55B,C55,C55A	199-38	40-128D	30-93C	APS164-06106	APS66-09700	6	APS177-00300
58P,58TC,60,A60,B60	199-73	40-128	30-93	APS164-06106	APS66-04400	6	APS177-00300
65,A65,70,65-80,A80,B80,88	199-123	40-170B	30-144A	APS164-22900	APS066-09000	8	APS177-01600
A90,B90,C90,90A,E90,H90,65-A90-1,2,3,4	199-90	40-170A	30-144	APS164-20900	APS066-09000	8	APS177-01600
F90,99,99A,A99A,B99,C99,100,A100,B100,200,200C,CT,T; A200,A200C,CT; B200,B200C,CT,T	199-110	40-289	30-146	APS164-21000	66-09100	2	N/A
<b>Cessna</b>							
120, 140,140A	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
150, A150, F150, FA150, A152, F152, FA152 Series	199-84	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
170,A,B	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
172, F172 Series, FR172 Series, R172 Series	199-84A	40-113	30-75A	APS164-04000	APS66-10500	2	APS105-00200
172, A,B,C,D,E, P172D	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
175,A,B,C	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
177 Series	199-84	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
177RG	199-84	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
180, 180A,B,C,D,E,F	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
180, 180A,B,C,D,E,F,H,J	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
180, 180A,B,C,D,E,F,H,J,K	199-62	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
	199-155	40-75J	30-52Y	APS164-03601	APS66-10500	4	APS105-00200
182, A182J,K,L,N, F182P,Q	199-84	40-113	30-75	APS164-04000	APS66-10500	2	APS105-00200
182, 182A,B,C,D,E,F,G	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
185, 185A,B,E	199-62	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
	199-155	40-75J	30-52Y	APS164-03601	APS66-10500	4	APS105-00200
185,A,B	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
A185E,F	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
	199-155	40-75J	30-52Y	APS164-03601	APS66-10500	4	APS105-00200
A185F	199-62	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
190, 195, 195A,B	199-61	40-40C	30-28C	APS164-00806	APS66-03300	6	APS177-00400
U206E,F, TU206E,F	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
	199-155	40-75J	30-52Y	APS164-03601	APS66-10500	4	APS105-00200
TU206E,F,G	199-62A	40-75T	30-52N	APS164-08300	APS66-10500	4	APS105-00200
U206E,F, TU206E,F	199-155	40-75J	30-52Y	APS164-03601	APS66-10500	4	APS105-00200
U206E,F, TU206E,F	199-62	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
210,A,B,C,K,L,M, T210,K,L,M,N	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
P210N	199-60A	40-75B	30-52U	APS164-01501	APS66-10500	4	APS105-00200
310,310A,B,C,D,E,F,G,H,I,J,K,L,N,P,Q,R 310J-1, E310H,J, T310P,Q,R	199-64	40-40B	30-1	APS164-01406	APS66-03300	2	APS177-00400
340, 340A	199-76	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
340, 340A	199-72	N/A	30-100	APS164-06406	APS66-06600	8	APS177-01600
401,401A,B	199-76	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
	199-72	N/A	30-100	APS164-06406	APS66-06600	8	APS177-01600
402,402A,B	199-72	N/A	30-100	APS164-06406	APS66-06600	8	APS177-01600
402,402A,B,C	199-76	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
404	199-78	40-132	30-97	APS164-09100	APS66-06400	8	APS177-01600
411,411A	199-72	N/A	30-100	APS164-06406	APS66-06600	8	APS177-01600
414	199-72	N/A	30-100	APS164-06406	APS66-06600	8	APS177-01600
414,414A	199-76	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
421,421A,B,C	199-76	40-135A	30-100	APS164-20306	APS66-06600	8	APS177-01600
441	199-115	40-169	30-143	APS164-20700	APS066-07300	6	APS177-01600

■ Partial model eligibility  
 ■ OEM brake disc or lining must be used  
 ■ S/N P21000001 thru P21000150

Eligibility continued on next page.



FAA-PMA Approved

# Brake and Wheel Parts Brake Discs and Linings



Continued from previous page							
Aircraft Model	Cleveland Kit P/N	Wheel Assy P/N	Brake Assy P/N	Brake Disc P/N	Lining P/N	Linings per Wheel	Rivet or Pin P/N
<b>D.L.F. Holdings</b>							
Tango	199-152	40-151	30-133	164-09900 <sup>2</sup>	APS66-10500	2	APS105-00200
<b>De Havilland</b>							
Chipmunk DHC-1-21,22,22A, DHC-1B,-2, -S3,-S5	199-79	40-97D	30-63P	APS164-02601	APS66-10500	2	APS105-00200
Beaver DHC-2 MK 1,2,3	199-95	40-134	30-99	APS164-06306	APS66-06600	8	APS177-01600
Twin Otter DHC-6-1,100,200,300	199-92	40-21101	30-170	APS164-22400	66-10000 <sup>2</sup>	8	APS177-01600
<b>Ercoupe</b>							
415-C, CD, D, E, F-1, F-1A <sup>5</sup> , G	199-69	40-41	30-30	APS164-00300	APS66-10500	2	APS105-00200
<b>Explorer Aeronautique</b>							
Private Explorer Std	199-62	40-75D	30-52N	APS164-03601	APS66-10500	4	APS105-00200
Private Explorer Float	N/A	40-101	30-67B	APS164-03006	APS66-10800	4	APS105-00200
<b>Express Aircraft</b>							
Express 2000/2000RG	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
<b>Four Winds Aircraft</b>							
192/210/250T	199-60	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
<b>Globe Swift</b>							
GC1A, GC1B	199-48	40-113C	30-79B	APS164-04300	APS66-10500	2	APS105-00200
<b>Gulfstream Aerospace</b>							
500,A,B,S,U	199-122	40-198	30-159B	APS164-22000	APS066-09000	8	APS177-01600
500,A,B,S,U	199-122A	40-198	30-159C	APS164-22000	APS066-09000	8	APS177-01600
560F,680F, FL.FLP,T,V,W,681, 685, 690, 690A,B,C,D, 695,A,B	199-80	40-107A	30-107E	APS164-07200	APS066-09000	8	APS177-01600
<b>Hensely Aircraft</b>							
F-19 Wolf Aerobatic	199-46	40-97A	30-63A	APS164-02601	APS66-10500	2	APS105-00200
F-19 Wolf Utility	199-62	40-75B	30-52	APS164-01501	APS66-10500	4	APS105-00200
<b>Lancair</b>							
IV High Energy, Energy Upgrade	199-224, 224A	40-406	30-233	APS164-02504	APS66-06200	4	APS177-00300
IV Standard	199-208	40-963	30-61E	APS164-02504	APS66-10500	4	APS105-00200
Legacy FG/RG	199-152	40-151	30-133	164-09900 <sup>2</sup>	APS66-10500	2	APS105-00200
<b>Murphy Manufacturing</b>							
Rebel	199-71	40-60A	30-60A	APS164-06700	APS66-10600	4	APS105-00200
<b>Navion</b>							
A,B,D,E,F,G,H	199-52	40-98D	30-66B	APS164-02707	APS66-11000	4	APS105-00200
	199-52A	40-98D	30-66B	APS164-02707	APS66-11000	4	APS105-00200
<b>Piper</b>							
J3, PA-11,12,13,14,15,16,17,18,20	199-71A	40-97D	30-60A	APS164-02601	APS66-10600	4	APS105-00200
	199-71	40-60	30-60A	APS164-06700	APS66-10600	4	APS105-00200
PA-18A-150	199-71A	40-97D	30-60A	APS164-02601	APS66-10600	4	APS105-00200
	199-71	40-60	30-60A	APS164-06700	APS66-10600	4	APS105-00200
PA-31, -300,325,350	199-100	40-162	30-138	APS164-07700	APS66-06800	12	APS177-01600
PA-31-310,325,350	199-66	N/A	30-95A	APS164-07906	APS66-06600	8	APS177-01600
PA-31P (425 HP), PA31-350	199-83	40-141	30-123	APS164-07700	APS66-06800	12	APS177-01600
PA-31-350 <sup>4</sup>	199-119	40-198	30-158	APS164-21900	APS66-06800	12	APS177-01600
PA-31T, PA-3T1	199-89	40-106	30-106	APS164-03906	APS66-06800	16	APS177-01600
PA-31T2	199-111	40-167	30-142	APS164-20600	APS066-07300	8	APS177-01600
PA-42, PA-42-720	199-112	40-166	30-141	APS164-07400	APS066-07300	8	APS177-01600
<b>Pitts</b>							
Pitts Special	199-103	40-78J	30-9C	APS164-01700	APS66-10600	2	APS105-00200
S1-S	199-102	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
<b>RANS</b>							
S-16	199-102	40-78B	30-9	APS164-01700	APS66-10600	2	APS105-00200
S-7C	199-104	40-59A	30-59A	164-07500 <sup>2</sup>	APS66-11200	2	APS105-00200
<b>Skystar Aircraft</b>							
Kit Fox	199-215	40-281	30-224	164-23400 <sup>2</sup>	APS66-10500	2	N/A
Pulsar	199-102	40-78B	30-9	N/A	APS66-10600	2	APS105-00200
<b>Steen Aero Lab</b>							
Skybolt	199-104	40-59A	30-59A	164-07500 <sup>2</sup>	APS66-11200	2	APS105-00200
	199-105	40-113X	30-75X	APS164-04000	APS66-10500	2	APS105-00200
<b>Swift</b>							
GC-1A, GC-1B	199-98	40-113C	30-79B	APS164-04300	APS66-10500	2	APS105-00200
<b>Univair</b>							
108 Series	188-87	40-97D	30-63Q	APS164-02601	APS66-10500	2	APS105-00200
<b>Van's Aircraft</b>							
RV-3, RV-9	199-102	40-75B	30-9	APS164-01700	APS66-10600	2	APS105-00200
RV-10	199-104	40-59A	30-59A	164-07500 <sup>2</sup>	APS66-11200	2	APS105-00200
<b>Velocity Aircraft</b>							
SE/XL	199-60	40-75B	30-52	APS164-01501	APS66-10600	4	APS105-00200

<sup>2</sup> OEM brake disc or lining must be used    <sup>4</sup> Modified by Schaefer STC SA678SW    <sup>5</sup> S/N 813 and on

## Brake Bleeder Valves for Cleveland and McCauley Wheels

Save \$\$

**Improved - No more rust, no more rounded wrench flats**

### Bleeder Needle

- Strong heat treated 17-4 stainless steel prevents corrosion and rounding of the hex
- Increased hex size further resists rounding of the wrench hex

### Bleeder Seat

- Stainless steel for corrosion resistance
- Type III class 3 cadmium plating sure is ugly, but it's the best protection against galvanic corrosion with the magnesium housing.

### Even the Rubber Cap is Improved!

- Improved material prevents cracking
- Shorter design results in a more secure fit

### Convenient Kits

- Two kits required per aircraft
- Components also available separately



MCBB-KT-1		
Qty	Part Number	Description
1	MC081-00100	Bleeder Seat
1	MC079-00300	Bleeder Needle
1	MC183-00100	Needle Cap

← 1/2" Wrench

← 1/8-27 NPT Thread

MCBB-KT-2		
Qty	Part Number	Description
1	MC081-00200	Bleeder Seat
1	MC079-00300	Bleeder Needle
1	MC183-00100	Needle Cap
1	MS28775-012	O-ring

← 9/16" Wrench

← 7/16-20 UNF Thread

MCBB-KT-3		
Qty	Part Number	Description
1	MC081-00500	Bleeder Seat
1	MC079-00300	Bleeder Needle
1	MC183-00100	Needle Cap
1	MS28775-011	O-ring

← 9/16" Wrench

← 3/8-24 UNF Thread

MCBB-KT-4		
Qty	Part Number	Description
1	MC081-00600	Bleeder Seat
1	MC079-00300	Bleeder Needle
1	MC183-00100	Needle Cap
1	NAS1612-4A	O-ring

← 13/16" Wrench

← 5/8-18 UNF Thread

MCBB-KT-5		
Qty	Part Number	Description
1	MC081-30169	Bleeder Seat
1	MC079-00300	Bleeder Needle
1	MC183-00100	Needle Cap
1	MS28775-011	O-ring

← 1/2" Wrench

← 3/8-24 UNF Thread

### FAA-PMA Direct Replacements

Currently approved for most Cessna

Description	McFarlane P/N	Cleveland P/N	Cessna P/N	McCauley P/N
Bleeder Seat	MC081-00100	081-00100	37-206	A30030
Bleeder Needle	MC079-00300	079-00300	FC6446	A30085
Bleeder Seat	MC081-30169	081-30169		A30169
Needle Cap	MC183-00100	183-00100		A30040
Needle Cap	MC183-00100	183-1		A30040
Needle Cap	MC183-00100	183-0100		A30040

Aircraft	Serial Number	When equipped with brake number or Cleveland conversion kit:	Part Number
120, 140, 140A	All	Only for use with Cleveland conversion kit 199-46	MCBB-KT-1
150A,B,C,D,E,F,G,H,J,K,L,M	All		MCBB-KT-1
A150K,L,M	All		MCBB-KT-1
F150F,G,H,J,K,L,M	All		MCBB-KT-1
FA150K,L,M	All		MCBB-KT-1
152	15279406 thru 15285161	C163032-0110 or C163030-0113 (30-75)	MCBB-KT-1
	15285162 thru 15286033	C163033-0101 (C30018)	MCBB-KT-5
A152	All	C163032-0110 or C163030-0113 (30-75)	MCBB-KT-1
	A1520984 thru A1521049	C163033-0101 (C30018)	MCBB-KT-5
F152, FA152	All		MCBB-KT-1
170, 170A,B	All	Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A	MCBB-KT-1
172, 172A,B,C,D,E	All	Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A	MCBB-KT-1
172F,G,H,I,K,L,M,N	All		MCBB-KT-1
172P	17274010 thru 17275034	C163030-0111 (30-75A), C163032-0105, C163032-0113 (C30018-6) or equipped with Cleveland conversion kit 199-62, or 199-62A	MCBB-KT-1
	17275035 thru 17275868	C163033-0102 (C30764-6)	MCBB-KT-5
172Q	All	Only for use with Cleveland conversion kit 199-62, or 199-62A	MCBB-KT-1
			MCBB-KT-5
172R,S	All		MCBB-KT-1
172RG	172RG0001 thru 172RG0890		MCBB-KT-1
	172RG0891 thru 172RG1191		MCBB-KT-5
F172D,E,F,G,H,K,L,M,N,P	All		MCBB-KT-1
FR172E,F,G,H,J,K, R172E,F,G,H,K	All		MCBB-KT-1
P172D	All	Only for use with Cleveland conversion kit 199-46	MCBB-KT-1

Continued on next page



# Brake and Wheel Parts



MCBB-KT-1



MCBB-KT-2



MCBB-KT-3



MCBB-KT-4



MCBB-KT-5

Continued from previous page

Aircraft	Begin Serial	When equipped with brake number or Cleveland conversion kit:	Part Number
175, 175A,B,C	All	Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A	MCBB-KT-1
177, 177A,B, 177RG, F177RG	All		MCBB-KT-1
180	All	Only for use with Cleveland conversion kit 199-46, 199-60, 199-62 or 199-62A	MCBB-KT-1
180A,B,C,D,E,F	All	Only for use with Cleveland conversion kit 199-46, 199-60, or 199-62	MCBB-KT-1
180G,H	All		MCBB-KT-1
180J	18052285 thru 18052384	1241157-1, C163030-0303 (30-52), C163030-0305 (30-52D), or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-60	MCBB-KT-1
	18052385 thru 18052770	C163030-0303 (30-52) or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-62	MCBB-KT-1
	All	C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)	MCBB-KT-5
180K	All	C163030-0303 (30-52) or C163030-0113 (30-75) or equipped with Cleveland conversion kit 199-62	MCBB-KT-1
		C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)	MCBB-KT-5
182	All	Only for use with Cleveland conversion kit 199-46	MCBB-KT-1
182A,B,C,D,E,F,G	All	Only for use with Cleveland conversion kit 199-46, 199-62, or 199-62A	MCBB-KT-1
182H,J,K,L,M,N,P,Q	All		MCBB-KT-1
182R	All		MCBB-KT-5
182S	All	Only for use with Cleveland conversion kit 199-62, or 199-62A	MCBB-KT-1
182T, T182T	All		MCBB-KT-3
A182J,K,L,N	All		MCBB-KT-1
F182P,Q	All		MCBB-KT-1
FR182	All		MCBB-KT-5
R182, T182, TR182	All		MCBB-KT-5
185, 185A,B,C,D,E, A185E	All		MCBB-KT-1
A185F	18502091 thru 18502300	C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)	MCBB-KT-5
	18502091 thru 18502310	1241157-1, C163030-0303 (30-52), C163030-0305 (30-52D), or C163030-0113 (30-75) or when equipped with Cleveland conversion kit 199-60 or 199-62	MCBB-KT-1
	18502311 thru 18504448	C163030-0303 (30-52) or C163030-0113 (30-75)	MCBB-KT-1
188, 188A,B, A188, A188A,B, A188B	18800001 thru 18802348	C163030-0301 (30-52B) or C163030-0302 (30-52B)	MCBB-KT-1
188, 188A,B, A188, A188A,B	18800001 thru 18802348	30-67A, C163030-0601 (30-67C), C163030-0503 (30-66A), or C163030-504 (30-66A)	MCBB-KT-2
A188B	18802349 thru 18803973		MCBB-KT-2
A188B (w/large hopper)	18800833T thru 18802348T	C163030-0301 (30-52B) or C163030-0302 (30-52B)	MCBB-KT-1
	18800833T thru 18802348T	30-67A, C163030-0601 (30-67C), C163030-0503 (30-66A), or C163030-504 (30-66A)	MCBB-KT-2
	18802349T thru 18803973T		MCBB-KT-2
T188C	All		MCBB-KT-2
190, 195, 195A,B	All	Only for use with Cleveland conversion kit 199-61	MCBB-KT-2
210-5 (205), 210-5A (205A)	All		MCBB-KT-1
206, 206H	All		MCBB-KT-1
P206, P206A,B,C,D,E	All		MCBB-KT-1
T206H	All		MCBB-KT-1
TP206A,B,C,D,E, TU206A,B,C,D,E	All		MCBB-KT-1
TU206F, U206F	U20601701 thru U20602199		MCBB-KT-1
TU206F,G, U206F,G	U20602200 thru U20607020	C163030-0303 (30-52) or C163030-0313 (30-52N) or when equipped with Cleveland conversion kit 199-62	MCBB-KT-1
	All	C163032-0205 (30-52U), C163032-0206 (D30118-4), C163032-0207 (D30118-5), or C163032-0208 (D30118-6)	MCBB-KT-5
U206, U206A,B,C,D,E	All		MCBB-KT-1
207, 207A, T207, T207A	All		MCBB-KT-1
208, 208A,B	All		MCBB-KT-3
210, 210A,B	All	Only for use with Cleveland conversion kit 199-60	MCBB-KT-1
210C,D,E,F,G,H,J,K	All		MCBB-KT-1
210L,M	All	C163030-0303 (30-52) or when equipped with Cleveland conversion kit 199-60	MCBB-KT-1
	21060090 thru 21062954	C163032-205 (30-52U) or C163032-206 (D30118-4)	MCBB-KT-5
210N	21062955 thru 21063114	121494-3 or 121494-4	MCBB-KT-2
	21063115 thru 21064135	C163030-0315 (30-52V), C163030-0316 (30-52V), 30-05220, or 30-05270	MCBB-KT-3
	21064136 thru 21065009		MCBB-KT-3
210R, T210R	All	C163032-209 or C163032-210	MCBB-KT-5
	All		MCBB-KT-3
P210N	P21000001 thru P21000150	C163032-205 (30-52U) or C163032-206 (D30118-4)	MCBB-KT-5
	P21000151 thru P21000191	121494-3 or 121494-4	MCBB-KT-2
	All	Only for use with Cleveland conversion kit 199-60	MCBB-KT-1
P210R	All	C163030-0315 (30-52V) or C163030-0316 (30-52V) or when equipped with Cleveland conversion kit 199-60A	MCBB-KT-3
	All	C163030-0901 (30-127) or C163030-0902 (30-127)	MCBB-KT-3
T210F,G,H,J,K	All		MCBB-KT-1
T210L,M	All	C163030-0303 (30-52) or when equipped with Cleveland conversion kit 199-60	MCBB-KT-1
	21060090 thru 21062954	C163032-205 (30-52U) or C163032-206 (D30118-4)	MCBB-KT-5

Continued on next page

# Brake and Wheel Parts Seat Rails and Seat Parts



Continued from previous page			
Aircraft	Begin Serial	When equipped with brake number or Cleveland conversion kit:	Part Number
T210N	21062955 thru 21063114	121494-3 or 121494-4	MCBB-KT-2
	21063115 thru 21064135	C163030-0315 (30-52V), C163030-0316 (30-52V), 30-05220, or 30-05270	MCBB-KT-3
	21064136 thru 21065009		MCBB-KT-3
	All	C163032-209 or C163032-210	MCBB-KT-5
310, 310B,C,D,F,G,H,I,J,J-1,K,L,N,P,Q	All	Only for use with Cleveland conversion kit 199-64	MCBB-KT-2
E310H,J	All	Only for use with Cleveland conversion kit 199-64	MCBB-KT-2
T310P,Q	All	Only for use with Cleveland conversion kit 199-64	MCBB-KT-2
320, 320-1, 320A,B,C,D,E,F	All	Only for use with Cleveland conversion kit 199-64	MCBB-KT-2
336	All		MCBB-KT-1
337E,F, F337E,F, FT337E,F, T337E,F	All		MCBB-KT-1
310R, T310R	All		MCBB-KT-2
335	All		MCBB-KT-2
340, 340A	All		MCBB-KT-2
401, 401A,B	All	Only for use with Cleveland conversion kit 199-72 or 199-76	MCBB-KT-2
402, 402A,B	All	Only for use with Cleveland conversion kit 199-72 or 199-76	MCBB-KT-2
402C	All		MCBB-KT-2
404	All	Only for use with Cleveland conversion kit 199-78	MCBB-KT-2
411, 411A	All		MCBB-KT-2
414, 414A	All		MCBB-KT-2
421	All	Only for use with Cleveland conversion kit 199-76	MCBB-KT-2
421C	All		MCBB-KT-2
441	All	Only for use with Cleveland conversion kit 199-115	MCBB-KT-2
500, 501	All	91891-003 (030-18902 formerly 30-189B) or when equipped with Cleveland conversion kit 199-60	MCBB-KT-4
550, 551	All	030-18902 formerly 30-189B or when equipped with Cleveland conversion kit 199-60	MCBB-KT-4
S550	All	Only for use with Cleveland conversion kit 199-177	MCBB-KT-4

## Brake and Master Cylinder Seal Kit for Cessna Aircraft

### Part Number TCBMD

For most 150 through 182 Cessna Aircraft  
Manufactured by Trimcraft Aviation



#### TCBMD kit contains:

Qty	P/N
4	MS28775-110
2	MS28778-4
2	MS28775-009
2	MS28775-111
2	MS28775-224
2	MS28775-218
2	800-001-6
2	T1628-110

## Folding Rear Seats

Convert from people to cargo in just a few minutes!

Left P/N 3187L, Right P/N 3187R

See page 184 for additional information

Aircraft Model
170, 170A,B
172 thru 172S
175, 175A,B,C
180, 180A,B,C,D,E,F,G,H,J,K
182 thru 182T
185, 185A,B,C,D,E,A185E,A185F



20 Pounds Lighter!

Manufactured by F Atlee Dodge

## Heavy Duty Seat Back Frame

10 oz. heavier with less tendency to wear out!

P/N 3226

See page 184 for additional information.

206 Series aircraft

Manufactured by F Atlee Dodge



## Folding Front Seat Kit for PA-18, PA-19 Series

Makes entry and loading much easier

P/N 3186

FAA-PMA/STC



Manufactured by F Atlee Dodge

Order online at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or Call 844-567-5855

## Safari Seat for PA-18, PA-19 Series

P/N 6151

Easily installed and removed

Clamps in and designed for easy removal with quick release pins.

Weight saver

Lightweight folding rear seat saves 10 pounds over existing seat.

STC-PMA

**Saves 10 Pounds!**

Folding rear seat!



Manufactured by F Atlee Dodge

## Seat Feet for Beechcraft Queen Air, King Air and Airliner

P/N CA100-530448-5	P/N CA100-530448-7	P/N CA50-534436-5
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Save up to 64%

Part Number	Model Eligibility
CA100-530448-5	C90,C90A,C90(SE),E90,F90,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT
CA100-530448-7	C90,C90A,E90,F90,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT
CA50-534436-5	65,80,A80,88,90,A90,99,99A,A99A,B90,B99,C99,100,A100,B100

Manufactured by PMA Products

**Seat Rails for Cessna Aircraft**

- Carefully engineered with many improvements
- Added strength and longer life
- Anodized for corrosion and wear resistance
- Easier installation
- Full interchangeability with the original Cessna parts



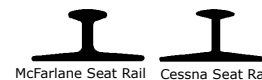
**No Pre-Drilled Rivet Holes for Precise Installation**

McFarlane seat rails do not have pre-drilled rivet holes in the rail base allowing the installer to exactly match the aircraft floor rivet pattern. McFarlane discovered while installing and developing our replacement seat rails that the seat rail attachment hole pattern was not consistent from aircraft to aircraft. Even small inconsistencies in the hole locations in the aircraft floor make installation of new seat rails very difficult. For this reason, McFarlane does not pre-drill rivet holes at the factory. (Existing stock may have a few pilot attachment holes drilled at the factory.) This allows the installer to precisely locate the attachment holes to match the holes in the aircraft floor. All special sized or machined attachment holes are machined to finish dimensions. It is necessary to replace all fasteners when the seat rails are installed.

**Installation Tip:**  
*The aircraft floor is subject to corrosion from moisture under the seat rails. Be sure to remove and treat any corrosion before installing the new seat rails.*

**More Material in the Right Places**

After studying countless worn and failed seat rails McFarlane's rails were designed with 15% more metal in critical areas. The result is more crack resistance, durability, strength and longer life.



Model	Serial Number	Inboard LH	Outboard LH	Outboard RH	Inboard RH	Template
150A,B,C,D,E,F	15059019 thru 15063059	MC0411545-2	MC0411545-1	MC0411545-1	MC0411545-2	
150F	15063060 thru 15063735	MC0411545-4	MC0411545-3	MC0411545-3	MC0411545-4	
150F,G,H,J,K,L	15063736 thru 15072628	MC0410219-2	MC0410219-1	MC0410219-1	MC0410219-2	
150L	15072629 thru 15073658	MC0410230-2	MC0410230-3	MC0410230-2	MC0410230-3	
150L,150M	15073659 thru 15079405	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
A150K,L	A1500001 thru A1500276	MC0410219-2	MC0410219-1	MC0410219-1	MC0410219-2	
A150L	A1500277 thru A1500342	MC0410230-2	MC0410230-3	MC0410230-2	MC0410230-3	
A150L,M	A1500343 thru A1500734	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
F150F	F1500001 thru F1500029	MC0411545-2	MC0411545-1	MC0411545-1	MC0411545-2	
F150F	F1500030 thru F1500067	MC0411545-4	MC0411545-3	MC0411545-3	MC0411545-4	
F150G,H,J,K,L	F1500068 thru F15000738	MC0410219-2	MC0410219-1	MC0410219-1	MC0410219-2	
F150L	F15000739 thru F15000863	MC0410230-2	MC0410230-3	MC0410230-2	MC0410230-3	
F150L,M	F15000864 thru F15001428	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
FA150K,L	FA1500001 thru FA1500120	MC0410219-2	MC0410219-1	MC0410219-1	MC0410219-2	
FRA150L	FRA1500121 thru FRA1500166	MC0410219-2	MC0410219-1	MC0410219-1	MC0410219-2	
FRA150L,M	FRA1500167 thru FRA1500336	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
152	15279406 thru 15286033	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
A152	A1520735 thru A1521049	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
F152	F15201429 thru F15201980	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
FA152	FA1520337 thru FA1520425	MC0410235-6	MC0410235-1	MC0410235-2	MC0410235-6	
170, 170A,B	18000 thru 27169	MC0511000-14	MC0511000-15	MC0511000-14	MC0511000-15	SRTEM1
172, 172A,B,C	28000 thru 17249544	MC0511293-1	MC0511293-3	MC0511293-4	MC0511293-2	SRTEM1
172D,E	17249545 thru 17251822	MC0511240-4	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
172F,G,H,I,K	17251823 thru 17258656	MC0511240-5	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
172K	17258657 thru 17259223	MC0511240-9	MC0511240-7	MC0511240-8	MC0511240-10	SRTEM2
172L	17259224 thru 17260758	MC0511240-15	MC0511240-11	MC0511240-12	MC0511240-14	SRTEM2
172M,N	17260759 thru 17272884	MC0511243-4	MC0511243-5	MC0511243-6	MC0511243-4	SRTEM2
172N,P,Q	17272885 thru 17276516	MC2414002-2	MC2414002-1	MC2414002-2	MC2414002-1	SRTEM2
172P	17276517 thru 17276654	MC0514209-4	MC0514209-1	MC0514209-2	MC0514209-3	SRTEM2
NOTE: Cessna Parts Manual has the location reversed on P/N 0514209-3 & 0514209-4. The information contained here has been verified to be correct.						
172RG	172RG0001 thru 172RG1191	MC2414002-2	MC2414002-1	MC2414002-2	MC2414002-1	SRTEM2
F172D,E	F1720001 thru F1720085	MC0511240-4	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
F172F,G,H	F17200086 thru F17200739	MC0511240-5	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
F172H	F17200740 thru F17200754	MC0511240-9	MC0511240-7	MC0511240-8	MC0511240-10	SRTEM2
F172K,L	F17200755 thru F17200904	MC0511240-15	MC0511240-11	MC0511240-12	MC0511240-14	SRTEM2
F172M,N	F17200905 thru F17201909	MC0511243-4	MC0511243-5	MC0511243-6	MC0511243-4	SRTEM2
F172N,P	F17201910 thru F17202238	MC2414002-2	MC2414002-1	MC2414002-2	MC2414002-1	SRTEM2
F172P	F17202239 thru F17202254	MC0514209-4	MC0514209-1	MC0514209-2	MC0514209-3	SRTEM2
NOTE: Cessna Parts Manual has the location reversed on P/N 0514209-3 & 0514209-4. The information contained here has been verified to be correct.						
FP172	FP1720001 thru FP1720003	MC0511240-4	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
FR172E,F,G	FR17200001 thru FR17200190	MC0511240-5	MC0511240-2	MC0511240-3	MC0511240-6	SRTEM2
FR172G	FR17200191 thru FR17200225	MC0511240-9	MC0511240-7	MC0511240-8	MC0511240-10	SRTEM2
FR172H	FR17200226 thru FR17200350	MC0511240-15	MC0511240-11	MC0511240-12	MC0511240-14	SRTEM2
FR172J,K	FR17200351 thru FR17200655	MC0511243-4	MC0511243-5	MC0511243-6	MC0511243-4	SRTEM2
NOTE: Cessna Parts Manual has the location reversed on P/N 0511243-5 & 0511243-6. The information contained here has been verified to be correct.						
FR172K	FR17200656 thru FR17200675	MC2414002-2	MC2414002-1	MC2414002-2	MC2414002-1	SRTEM2

**1** Partial model eligibility  
**2** These rails have seat adjust holes





# Seat Rails and Seat Parts



FAA-PMA Approved

Model	Serial Number	Inboard LH	Outboard LH	Outboard RH	Inboard RH	Template
P172	P17257120 thru P17257188	MC0511240-4	MC0511240-2 2	MC0511240-3	MC0511240-6 2	SRTEM2
R172K1	R1722000 thru R1723199	MC0511243-4 2	MC0511243-5 2	MC0511243-6 2	MC0511243-4 2	SRTEM2
R172K1	R1723200 thru R1723454	MC2414002-2 2	MC2414002-1 2	MC2414002-2 2	MC2414002-1 2	SRTEM2
175	55001 thru 56777	MC0511293-1	MC0511293-3 2	MC0511293-4	MC0511293-2 2	SRTEM1
175A,B,C	17556778 thru 17557119	MC0511293-1	MC0511293-3 2	MC0511293-4	MC0511293-2 2	SRTEM1
177,A,B1	17700001 thru 17701636	MC1711015-3 2	MC1711015-1 2	MC1711015-2 2	MC1711015-4 2	SRTEM3
177B1	17701637 thru 17702752	MC1711015-9 2	MC1711015-7 2	MC1711015-8 2	MC1711015-10 2	SRTEM3
177RG1	177RG0105 thru 177RG01366	MC2011015-9 2	MC2011015-5 2	MC2011015-10 2	MC2011015-8 2	SRTEM3
F177RG	F177RG0007 thru F177RG0177	MC2011015-9 2	MC2011015-5 2	MC2011015-10 2	MC2011015-8 2	SRTEM3
180, 180A,B,C,D,E,F	30000 thru 18051312	MC0511000-14	MC0511000-15 2	MC0511000-14	MC0511000-64 2	SRTEM1
180G,H1	18051313 thru 18051490	MC0511000-68	MC0511000-69 2	MC0511000-68	MC0511000-70 2	SRTEM1
180H1	18051491 thru 18052103	MC0711693-1	MC0711693-2 2	MC0711693-1	MC0711693-2 2	SRTEM1
180H1	18052104 thru 18052215	MC0711693-1	MC0711693-1	MC0711693-4 2	MC0711693-4 2	SRTEM1
180H1,J1	18052216 thru 18052500	MC0711693-8	MC0711693-6 2	MC0711693-8	MC0711693-6 2	SRTEM1
180J1	18052501 thru 18052620	MC0711693-8	MC0711693-7 2	MC0711693-8	MC0711693-7 2	SRTEM1
180J1,K	18052621 thru 18053203	MC0711693-9 2	MC0711693-11 2	MC0711693-10 2	MC0711693-7 2	SRTEM1
182, 182A,B,C,D	33000 thru 18253598	MC0511293-1	MC0511293-3 2	MC0511293-4	MC0511293-2 2	SRTEM1
182E,F,G,H,J,K,L,M,N1	18253599 thru 18260445	MC0710618-1	MC0710618-5 2	MC0710618-4	MC0710618-6 2	SRTEM1
182N1,P,Q,R/T182	18260446 thru 18268615	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	SRTEM1
A182J,K,L,M,N	A1820001 thru A1820148	MC0710618-1	MC0710618-5 2	MC0710618-4	MC0710618-6 2	SRTEM1
F182P,Q	F18200001 thru F18200169	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	SRTEM1
F182RG	FR18200001 thru FR18200070	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	SRTEM1
R182/TR182	R18200001 thru R18202041	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	MC0710658-2 2	SRTEM1
185,A,B,C,D1	1850001 thru 1850806	MC0511000-68	MC0511000-69 2	MC0511000-68	MC0511000-70 2	SRTEM1
185D1,E, A185E1	1850807 thru 18501599	MC0711693-1	MC0711693-2 2	MC0711693-1	MC0711693-2 2	SRTEM1
A185E1	18501600 thru 18501954	MC0711693-1	MC0711693-4 2	MC0711693-1	MC0711693-4 2	SRTEM1
A185E1, A185F1	18501955 thru 18502565	MC0711693-8	MC0711693-6 2	MC0711693-8	MC0711693-6 2	SRTEM1
A185F1	18502566 thru 18502838	MC0711693-8	MC0711693-7 2	MC0711693-8	MC0711693-7 2	SRTEM1
A185F1	18502839 thru 18504448	MC0711693-9 2	MC0711693-11 2	MC0711693-10 2	MC0711693-7 2	SRTEM1
A188B	18800944 thru 18803968T	Left- MC1613423-3 2		Right-MC1613423-3 2		SRTEM1
T188C	T18803307T thru T18803968T	Left- MC1613423-3 2		Right-MC1613423-3 2		SRTEM1
190, 195	7001 thru 7999	MC0311715-4 2	MC0311715-3 2	MC0311715-3 2	MC0311715-4 2	SRTEM1
190, 195	16000 thru 16183	MC0311715-4 2	MC0311715-3 2	MC0311715-3 2	MC0311715-4 2	SRTEM1
210-5 (205)	2050001 thru 2050480	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
210-5A (205A)	2050481 thru 2050577	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
206	2060001 thru 2060275	MC1210408-1	MC1210408-5 2	MC1210408-8	MC1210408-6 2	SRTEM1
U206A,B,C,D,E1	U2060276 thru U20601587	MC1210408-1	MC1210408-5 2	MC1210408-8	MC1210408-6 2	SRTEM1
TU206A,B,C,D,E1	U2060276 thru U20601587	MC1210408-1	MC1210408-5 2	MC1210408-8	MC1210408-6 2	SRTEM1
P206A,B,C,D,E	P2060001 thru P20600647	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
TP206A,B,C,D,E	P2060002 thru P20600647	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
U206E1,F1	U20601588 thru U20601874	Not available	MC1210408-21 2	MC1210408-14	MC1210408-12 2	SRTEM1
TU206E1,F1	U20601588 thru U20601874	Not available	MC1210408-21 2	MC1210408-14	MC1210408-12 2	SRTEM1
U206F1,G1	U20601875 thru U20605309	MC1210408-18 2	MC1210408-21 2	MC1210408-17 2	MC1210408-12 2	SRTEM1
TU206F1,G1	U20601875 thru U20605309	MC1210408-18 2	MC1210408-21 2	MC1210408-17 2	MC1210408-12 2	SRTEM1
U206G1	U20605310 thru U20607020	MC1210408-24 2	MC1210408-21 2	MC1210408-23 2	MC1210408-12 2	SRTEM1
TU206G1	U20605310 thru U20607020	MC1210408-24 2	MC1210408-21 2	MC1210408-23 2	MC1210408-12 2	SRTEM1
2071/T2071	20700001 thru 20700215	MC1210408-1	MC1210408-9 2	Not Available	MC1210408-6 2	SRTEM1
2071/T207	20700216 thru 20700562	MC1210408-18 2	MC1210408-15 2	MC1210408-16 2	MC1210408-12 2	SRTEM1
207A1/T207A1	20700216 thru 20700562	MC1210408-18 2	MC1210408-15 2	MC1210408-16 2	MC1210408-12 2	SRTEM1
207A1/T207A1	20700563 thru 20700788	MC1210408-24 2	MC1210408-15 2	MC1210408-22 2	MC1210408-12 2	SRTEM1
210, 210A	21057001 thru 21057840	Not Available	MC1210025-3 2	Not Available	MC1210025-2 2	SRTEM1
210B,C,D,E,F,G,H,J	21057841 thru 21059199	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
210K,L1/T210K,L1	21059200 thru 21060539	Fwd MC1210520-11 2 Removable MC1210520-3	Fwd MC1210520-9 2	Fwd MC1210520-12 2	Fwd MC1210520-2 2 Removable MC1210520-4 2	SRTEM1
210L1,M/T210L1,M	21060540 thru 21062954	Fwd MC1210520-11 2 Removable MC1210520-3	Fwd MC1211514-1 2	Fwd MC1211514-1 2	Fwd MC1210520-2 2 Removable MC1210520-4 2	SRTEM1
210N,R/T210N,R	21062955 thru 21065009	Fwd MC1210520-15 2	Fwd MC1211514-2 2	Fwd MC1211514-2 2	Fwd MC1210520-16 2	SRTEM1/3
P210N1	P21000001 thru P21000150	Fwd MC1210520-11 2 Removable MC1210520-3	Fwd MC1211514-1 2	Fwd MC1211514-1 2	Fwd MC1210520-2 2 Removable MC1210520-4 2	SRTEM1
P210N1,R	P21000151 thru P21000874	Fwd MC1210520-15 2	Fwd MC1211514-2 2	Fwd MC1211514-2 2	Fwd MC1210520-16 2	SRTEM1/3
T210F,G,H,J	T2100001 thru T2100454	MC1210408-1	MC1210408-5 2	MC1210408-4	MC1210408-6 2	SRTEM1
305A,B,C,D,E,F	All	Front Seat Left-MC0611134-3 2		Front Seat Right-MC0611134-2 2		SRTEM1
Most 310 and 320	Cessna Manufactured	Left-0812200-125		Right-0812200-126		SRTEM1

1 Partial model eligibility  
2 These rails have seat adjust holes

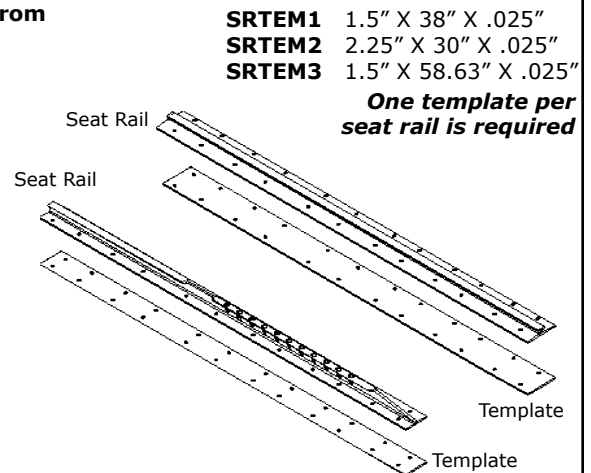
## Templates for Cessna Seat Rails

Templates make the job of transferring the original rivet hole pattern from the old seat rail to the new seat rail easy!

- Inexpensive
- Achieve a precise fit every time

### To use the templates

1. Clamp the template to your old seat rail.
2. Drill holes through the holes in the old seat rail into the template.
3. Clamp the template to the new seat rail and drill several holes through the template and new seat rail.
4. Set the new seat rail in position in the aircraft and check for proper seat rail alignment. The seat rails must be properly aligned and parallel with each other.
5. Clamp the templates again to the new seat rail and make any required alignment adjustments discovered during the aircraft test installation.
6. Drill all of the required holes through the template and the new seat rail.



Models 150-152 and 190-195 do not require templates as the screw holes are pre-drilled. See seat rail eligibility for the template for your seat rails.

## Seat Rail Rivet and Screw Kits

McFarlane offers either rivets or screws as convenient kits containing AN and MS hardware. Since it is difficult to install many of the rivets required to attach the seat rail, it is permissible to substitute screws with ultimate tensile strength exceeding 50 ksi with lock nuts provided the holes are ream fit and spotfaced. Each kit contains enough rivets or screws to install four seat rails. These kits do not contain all required hardware for Cessna model 177 seat rails.

**Installation hardware items are also available separately.**

### RIVET KIT 1

1/8 & 5/32 Universal Head Rivet Kit

Qty	U/M	Part Number
22	Grams	MS20470 AD4-5
11	Grams	MS20470 AD4-6
14	Grams	MS20470 AD4-7
6	Grams	MS20470 AD4-10
6	Grams	MS20470 AD4-12
18	Grams	MS20470 AD5-5
13	Grams	MS20470 AD5-6
13	Grams	MS20470 AD5-7
10	Grams	MS20470 AD5-10
10	Grams	MS20470 AD5-12



### SR150-SCREW-KT

Contains #10 screws and hardware required for all Cessna 150/152 models

Qty	Part Number	Desc.	Size
40	MS27039-1-08	Screw	10-32 X .531
2	MS27039-1-09	Screw	10-32 X .594
2	MS27039-1-17	Screw	10-32 X 1.094
40	MS21044N3	Nut	Nylon Lock, 10-32

### SR6-SCREW-KT

Contains #6 and #8 screws and hardware

Qty	Part Number	Desc.	Size
140	MS35206-229	Screw	6-32 X .438
16	MS35206-230	Screw	6-32 X .5
12	MS27039-0811	Screw	8-32 X .719
12	MS27039-0812	Screw	8-32 X .781
12	MS27039-0813	Screw	8-32 X .844
12	MS27039-0814	Screw	8-32 X .906
35	NAS21042-08	Nut	Small Wrench Surface
80	NAS21042-06	Nut	Small Wrench Surface
80	MS21044N06	Nut	Nylon Lock, 6-32
200	AN960-6L	Washer	#6 Thin
100	AN960-8L	Washer	#8 Thin

### SR8-SCREW-KT

Contains #8 screws and hardware

Qty	Part Number	Desc.	Size
140	MS27039-0808	Screw	8-32 X .531
12	MS27039-0809	Screw	8-32 X .594
12	MS27039-0810	Screw	8-32 X .656
12	MS27039-0811	Screw	8-32 X .719
12	MS27039-0812	Screw	8-32 X .781
12	MS27039-0813	Screw	8-32 X .844
12	MS27039-0814	Screw	8-32 X .906
80	NAS21042-08	Nut	Small Wrench Surface
80	MS21044N08	Nut	Nylon Lock, 8-32
200	AN960-8L	Washer	#8 Thin

### FAA General Aviation Airworthiness Information Bulletin CE-90-03R2, 08/26/2002 Original Issue 01/16/1991

This alert gives direction for the replacement of seat rails for most Cessna airplanes as required by AD 87-20-03R2. This alert advises all owners and operators of the necessity to install all required fasteners when seat rails are being replaced. Many seat rails are manufactured with pilot holes only and do not contain all holes required for installation of the seat rail in the airplane. It is, therefore, necessary for the installer to assure that there are sufficient holes to accommodate all required fasteners.

Note these recommendations:

1. When replacing a seat rail, note the number and location of all fastener holes on the seat rail being removed.
2. Match these holes against the holes in the replacement seat rail. If the replacement seat rail does not have all of the same holes at the same locations, they must be drilled.
3. Since it is difficult to install many of the rivets required to attach the seat rail, it is permissible to substitute screws with ultimate tensile strength exceeding 50 ksi. Example of such screws are AN515, AN520, AN525, MS35206, MS35207, MS35214, MS35215, MS35218, MS35219, MS51957 or MS51958 with lock nuts, provided the holes are ream fit and spotfaced. For further information contact your local FAA office.

## Spotface Kit

Now modified for rail cap clearance!

### Kit P/N SPOTFACE KIT

Contains a tool used with an electric drill to make a flat spot for screws. Cutter comes with three pilots. Components sold as a kit or separately by part number.

Cutter P/N 6080,  
 1/8" pilot P/N 6078  
 5/32" pilot P/N 6076  
 3/16" pilot P/N 6077  
 Pouch P/N 6090



## Cargo Tie Downs

### Secure your cargo P/N TDC-208

Cessna 208, 208A and 208B series aircraft

Clamps to seat rails to provide tie down points to secure cargo.

- 4 required for every 100 lbs of cargo
- Anodized aluminum for durability
- FAA-PMA

Note: This product is **not** to be used as a seat stop.  
 Manufactured by F Atlee Dodge



P/N TDC-208

# Seat Rails and Seat Parts



FAA-PMA Approved

## Pilot/Copilot Seat Rail Repair Kit for Cessna Citation Aircraft

Part Number MCSK101

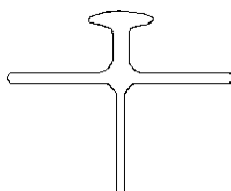
Save time and money!

McFarlane has created a new, patented solution, using input from Citation mechanics and our extensive experience with Cessna seat rails. Eligible for installation on all Cessna 500 and 501 series aircraft.

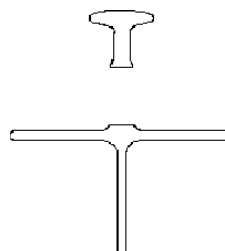


- FAA-PMA/STC approved
- Stronger than the Cessna splice repair
- No splice kit needed
- Makes future replacements bolt-in only
- Complete installation tool kit may be purchased or rented
- No cutting or riveting below the floor level

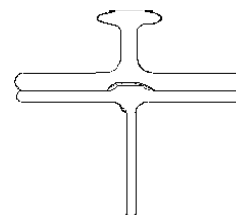
Original Cessna Seat Rail Extrusion



Cut the rail cap off using the McFarlane tool kit



Bolt the McFarlane replacement seat rail to the Cessna extrusion



Patent Number 7,168,674 B2

## Seat Stop Kits for Cessna Aircraft

McFarlane Seat stops are stronger than the originals!

Kits contain FAA-PMA and industry standard components



Seat Stop Kit 1

- (1) MC0713074-1
- (1) MS24665-132
- (1) MS20392-1C21



Seat Stop Kit 2

- (1) MC0511242-1
- (1) MS35265-41



Seat Stop Kit 3

- (1) MC0713074-1
- (1) MS24665-132
- (1) MS20392-1C21
- (2) NAS43DD1-9

Model	Serial Number	Part Number
150F <sup>1</sup> ,G,H,J,K,L <sup>1</sup>	15063763 thru 15073658	Seat Stop Kit 3
A150K,L <sup>1</sup>	A1500001 thru A1500342	Seat Stop Kit 3
F150G,H,J,K,L <sup>1</sup>	F1500068 thru F15000863	Seat Stop Kit 3
FA150K,L <sup>1</sup>	FA1500001 thru FA1500166	Seat Stop Kit 3
172A,B,C	28000 thru 17249544	Seat Stop Kit 1
172D,E,F,G,H,I,K,L,M,N,P <sup>1</sup> ,Q	17249545 thru 17276516	Seat Stop Kit 2
F172M,N,P	F17200905 thru F17202238	Seat Stop Kit 2
FR172E,F,J,K	FR17200001 thru FR17200675	Seat Stop Kit 2
P172	P17257120 thru P17257188	Seat Stop Kit 2
172P <sup>1</sup>	17276517 thru 17276673	Seat Stop Kit 1
F172P	F17202239 thru F17202254	Seat Stop Kit 1
R172K	R1722000 thru R1723454	Seat Stop Kit 2
172RG	172RG0001 thru 172RG1191	Seat Stop Kit 2
175	55001 thru 17557119	Seat Stop Kit 1
177,A,B	17700001 thru 17702752	Seat Stop Kit 2
177RG	177RG0001 thru 177RG1366	Seat Stop Kit 2
180,A,B,C,D,E,F,G,H,J,K	30000 thru 18053203	Seat Stop Kit 1
182,A,B,C,D,E,F,G,H	33000 thru 18256684	Seat Stop Kit 1
182J,K,L,M,N,P,Q,R	18256685 thru 18268586	Seat Stop Kit 1
F182P,Q	F18200001 thru F18200169	Seat Stop Kit 1
FR182	FR18200001 thru FR18200070	Seat Stop Kit 1
T182	18267716 thru 18268541	Seat Stop Kit 1
R182/ TR182	R18200001 thru R18202041	Seat Stop Kit 1
185,A,B,C,D,E, A185E,F	1850001 thru 18504448	Seat Stop Kit 1
188,A, A188,A	1880001 thru 18800832	Seat Stop Kit 1
188B <sup>1</sup>	188002349 thru 18803846 188002349T thru 18803968T	Seat Stop Kit 1
T188C	T18803297T thru T18803968T	Seat Stop Kit 1
<b>Standard Seats</b>		
188B	18800833 thru 18802348	Seat Stop Kit 1
A188B <sup>1</sup>	18800967T thru 18802348T	Seat Stop Kit 1
<b>Infinitely Adjustable Seats</b>		
188B	18800833 thru 18802348	Seat Stop Kit 2
A188B <sup>1</sup>	18800967T thru 18802348T	Seat Stop Kit 2
<b>Pilot/Copilot &amp; Middle Seats</b>		
210-5 (205), 210-SA (205A)	205-0001 thru 205-0577	Seat Stop Kit 1

Model	Serial Number	Part Number
<b>Pilot/Copilot Seats</b>		
206	206-0001 thru 206-0275	Seat Stop Kit 1
U206,A,B,C,D, TU206A,B,C,D	U206-0276 thru U206-1444	Seat Stop Kit 1
P206,A,B,C,D, TP206A,B,C,D	P206-0001 thru P206-0603	Seat Stop Kit 1
U206E <sup>1</sup> ,F,G, TU206E <sup>1</sup> F,G	U20601588 thru U20607020	Seat Stop Kit 1
<b>Standard Pilot/Copilot Seats</b>		
U206E <sup>1</sup> , TU206E <sup>1</sup>	U20601445 thru U20601587	Seat Stop Kit 1
P206E, TP206E	P20600604 thru P20600647	Seat Stop Kit 1
<b>Infinitely Adjustable Pilot/Copilot Seats</b>		
U206E <sup>1</sup> , TU206E <sup>1</sup>	U20601445 thru U20601587	Seat Stop Kit 2
P206E, TP206E	P206-0604 thru P206-0647	Seat Stop Kit 2
<b>Middle Seats</b>		
206, U206,A,B,C,D,E,F,G	206-0001 thru 206-0275	Seat Stop Kit 1
TU206A,B,C,D,E,F,G	U206-0276 thru U20607020	Seat Stop Kit 1
P206,A,B,C,D,E	P206-0001 thru P206-0647	Seat Stop Kit 1
TP206A,B,C,D,E	P206-0001 thru P206-0647	Seat Stop Kit 1
<b>Standard Pilot/Copilot Seats</b>		
207 <sup>1</sup> , T207 <sup>1</sup>	20700001 thru 20700215	Seat Stop Kit 1
<b>Infinitely Adjustable Pilot/Copilot Seats</b>		
207 <sup>1</sup> , T207 <sup>1</sup>	20700149 thru 20700215	Seat Stop Kit 2
<b>Pilot/Copilot Seats</b>		
207A <sup>1</sup> , T207A	20700216 thru 20700788	Seat Stop Kit 1
<b>Middle Seats</b>		
207 <sup>1</sup> ,A, T207 <sup>1</sup> ,A	20700001 thru 20700788	Seat Stop Kit 1
<b>Pilot/Copilot Seats</b>		
210,A,B,C,D,E,F,G,H,J,K,L,M,N,R	57001 thru 21065009	Seat Stop Kit 1
T210	T210-0001 thru T210-0454	Seat Stop Kit 1
<b>Middle Seat</b>		
210K,L,M,N,R	21059200 thru 21065009	Seat Stop Kit 1
T210K,L,M,N,R	21059200 thru 21065009	Seat Stop Kit 1
P210N,R	P21000001 thru P210000867	Seat Stop Kit 1
<b>Rear Seats</b>		
210D,E,F,G,H,J	21058221 thru 21059199	Seat Stop Kit 1
T210	T210-0001 thru T210-0454	Seat Stop Kit 1
<b>Pilot/Copilot Seats</b>		
T210F,G,H,J	T2100001 thru T2100454	Seat Stop Kit 1
P210N,R	P2100001 thru P21000874	Seat Stop Kit 1



**Seat Roller Kits for Cessna Aircraft**

Now also approved for 300-400 series aircraft!

McFarlane seat parts were developed to assist in complying with the parts replacement requirements of FAA Airworthiness Directive 87-20-03. This AD requires the periodic inspection and replacement of seat components of the entire Cessna light aircraft fleet. Our parts are direct replacements for the wear related seat components. All parts are available individually or as convenient kits.

**Rollers**

- Fabricated from molydisulfide filled nylon for improved strength and self-lubrication.
- Fully machined from extruded stock for a finer surface finish and higher strength.



**Bushings**

- Machined from alloy steel
- Longer life
- Greater wear resistance



**Washers**

- Super tough acetyl plastic
- Resists wear and aging
- MC1714000-41 full round washer also available



**Choose the Correct Kit**

The seat related replacement parts are not serial number specific, as the type of seat installed in the aircraft was optional when the aircraft was ordered from the factory. A common seat configuration is the pilot seat being "articulating" or "infinitely adjustable" while the co-pilot seat is the "standard" or "vertically adjustable" style. **One kit per seat is required.**

The most positive way to ensure that you are choosing the proper seat kit for your aircraft is to measure the rollers.

**SEAT-KT-1**

**Roller diameter approximately 1 3/8"**

This kit is used with the "infinitely adjustable" or "articulating" seats installed in the Cessna single engine aircraft from 1963 through 1986. Two adjustment crank handles identify this seat. The backrest angle is adjusted with a crank. It is also used with some 336-337 series aircraft. The SEAT-KT-1 contains the same components as four of the Cessna 1714000K200 kits.

All seats in the 177 Cardinal will use the large seat roller and require this kit. These parts are not used on models 150-152.

- (8) MC1714000-22 Washer
- (4) MCS1704-1 Roller
- (4) MC1414104-54 Bushing



**SEAT-KT-2**

**Roller diameter approximately 5/8"**

This kit is used with the "Standard" or "Vertically adjustable" seat installed in Cessna single engine aircraft from 1963 through 1986. This seat is identified by one or no adjustment crank handles. The seat back angle is adjusted with a lever on the side of the seat back. It is also used with some 336-337 series aircraft. The SEAT-KT-2 contains the same components as four of the Cessna 1414100-212 kits.

These parts are not used on models 150-152.

- (8) MCS1554-1 Washer
- (4) MCS1551-1 Roller
- (4) MC1414104-54 Bushing



**SEAT-KT-3**

**Roller diameter approximately 7/8" with no wear washers**

This kit is used with all seats in the Cessna 150-152 series aircraft and all Cessna single engine aircraft built before 1963. A welded steel tubing seat frame easily identifies these seats. It is also used with some Cessna twin engine aircraft.

- (4) MC0311310 Roller
- (4) MC0311586 Bushing

**Obsolete Roller 1964-1965**

Cessna aircraft manufactured in 1964 and 1965 had a spool shape roller with a smaller bushing. Use SEAT-KT-2 to replace this style roller.

The complete kit must be used, as the bushing size is different.



**Seat Rail Wear Gauge for Cessna Aircraft**

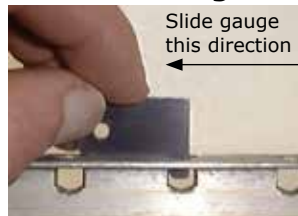
Checks seat rail wear limits as per FAA AD 2011-10-09 Seat Rail Directive

The McFarlane Seat Rail Wear Gauge is designed to check for seat rail pin engagement hole wear on Cessna aircraft, as required by FAA AD 2011-10-09. This gauge is designed to measure the actual radius wear near the seat stop holes and allows for the 0.020 upper surface wear permitted by the AD. This gauge is very precisely machined.

**Fast and Positive - No More Guessing!!**



1. Place the gauge into each hole location showing wear.



2. Slide gauge back along top center of the rail until it contacts the hole edge. Make sure to keep the gauge parallel and square to the unworn rail surface.



3. If the step touches the rail, lifting the gauge up, the wear is less than 0.42. If the step does not touch the rail, the wear is more than 0.42 and the seat rail must be replaced.



**Note:** Earlier versions of the McFarlane Seat Rail Hole Wear Gauge feature a 0.36 and a 0.42 step. The 0.36 step was included per an earlier version of the Airworthiness Directive and is no longer used.



**Part Number GAUGE SR1**

## Seat Roller Housing Gauge for Cessna Aircraft

### Part Number TOOL110

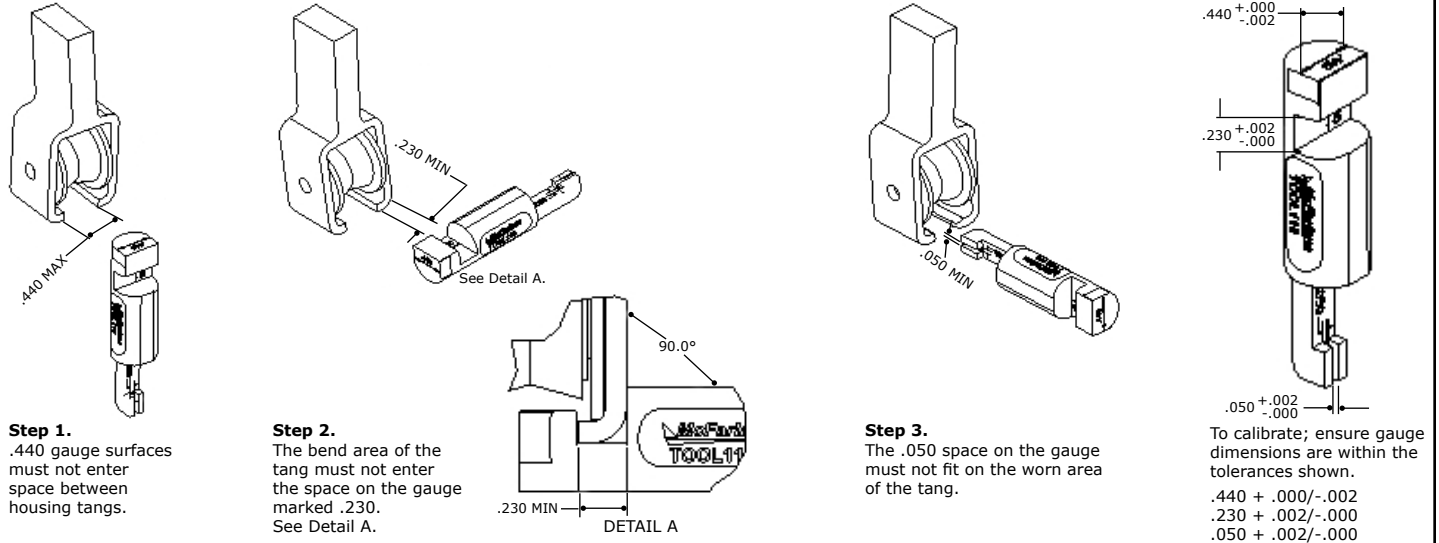
- Hardened Stainless Steel
- Save time! Ten times faster than calipers
- Step by step instructions
- Measures all three dimensions without removing rollers

### Checks Cessna seat roller housing limits as per FAA AD 2011-10-09

The McFarlane Seat Roller Housing Gauge is designed to facilitate inspection of seat roller housings for wear in Cessna aircraft as required by mandatory FAA AD 2011-10-09. Designed for seat roller housings that are replaceable, this gauge simplifies determining whether the housing is in or out of tolerance by allowing the areas of concern to be gauged, as opposed to measuring individual attributes on each seat roller housing with calipers. Do not use on welded/non-replaceable seat roller housings.



P/N TOOL110



## Seat Roller Housings for Cessna Aircraft

### Save \$\$

- Precision machined
- FAA-PMA direct replacement
- Seat roller housings for most single engine Cessna and Skymaster
- Replace out of spec housings as required by FAA AD 2011-10-09
- Pre assembled roller housing/bracket assemblies save time. The old bracket does not have to be removed and reinstalled.

**FAA Approval Pending!**

### Part Numbers:

- MC1414104-25
- MC1414104-26
- MC1414104-39
- MC1414104-40
- MC1414104-41
- MC1414104-42
- MC1414104-61
- MC1414104-65
- MC1414104-67
- MC1414104-68
- MC1414104-71
- MC1414104-72
- MC0700645-1
- MC0700645-2
- MC0700645-3
- MC0700645-4
- MC1200603-38
- MC1200603-41
- MC1200603-42
- MC1414104-8
- MC1714000-33



Housings and brackets are available separately or pre assembled. For housing/bracket assemblies add the letter "B" to the end of the part number; i.e. MC1414104-25B.

See [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for eligibility

**Seat Rail for Piper Aircraft**

- Direct replacement
- Precision machined
- Gold anodized for corrosion resistance
- Dry lubricant applied for long service life
- Save hundreds of \$\$
- They are prettier too!



Part Number MC62557-004 is used in all positions for all models listed below:

PA28-140, PA28-150, PA28-151, PA28-160, PA28S-160, PA28-161, PA28-180, PA28R-180, PA28S-180, PA28-181, PA28-201T, PA28R-200, PA28R-201, PA28R-201T, PA28RT-201, PA28RT-201T, PA28-235, PA28-236, PA32-260, PA32-300, PA32R-300, PA32-301, PA32-301T, PA32R-301 (HP), PA32R-301 (SP), PA32R-301T, PA32RT-300, PA32RT-300T, PA32S-300, PA34-200, PA34-200T, PA34-220T, PA44-180, PA44-180T

**Cargo Tie Downs**

Part number TDP-31  
Secure your cargo



Clamps to seat rails to provide tie down points to secure cargo.

- 4 required for every 100 lbs of cargo
- Anodized aluminum for durability
- FAA-PMA Piper

Eligible model series:

PA31, PA31-300, PA31-325, PA31-350, PA31P, PA31P-350, PA31-T, PA31-T1, PA31-T2 and PA31-T3 series

Note: This product is not to be used as a seat stop.

Manufactured by F Atlee Dodge

**Seat Roller for Piper Aircraft**

Part number CA87332-002  
Direct replacement



- If the roller measures 0.62" order P/N CA87332-002.
- If the roller measures 0.42" use Piper P/N 18968-000. (provided by McFarlane for reference only).

Eligible model series:

PA28-140,150,151,160,161,180,181,235,236,PA28R-180,200,PA32-260,300,301,301T, PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA46-310P,350P

Manufactured by PMA Products, Inc.

**Seat Adjustment Spring for Piper Aircraft**

Replacement springs just got more affordable!

Part number MC587-404

- Direct replacement
- One required per bucket seat



Model	Qty per A/C	Serial Number
PA-28-140	2	28-7425061 thru 28-7725290
PA-28-151 <b>1</b>	2	All
PA-28-161 <b>1</b>	2	2841001 thru 28-7716073
PA-28-180	2	28-7405035 thru 28-7505260
PA-28-181	2	2843001 thru 2843999
PA-28-181	2	2890206 thru 28-7790358
PA-28-201T	2	All
PA-28-235	2	28-7410027 thru 28-7710089
PA-28-236	2	All
PA-28R-200	2	28R-7435035 thru 28R-7635545
PA-28R-201	2	All
PA-28R-201T	2	All
PA-28RT-201T	2	All
PA-32-260	2	32-7400001 thru 32-7800008
PA-32-301	2	All
PA-32-301T	2	All
PA-32R-300	2	All
PA-32R-301	2	All
PA-32R-301T	2	All
PA-32RT-300	2	All
PA-32RT-300T	2	All
PA-34-200	2	34-7450033 thru 34-7450220
PA-34-200T	2	All
PA-34-220T	2	All
PA-44-180	2	All
PA-44-180T	2	All
PA-46-310P	4	All
PA-46-350P	4	4622001 thru 4622200
PA-46-350P	6	4636001 thru 4636999
PA-46-500TP	4	All
PA-46R-350T	4	All

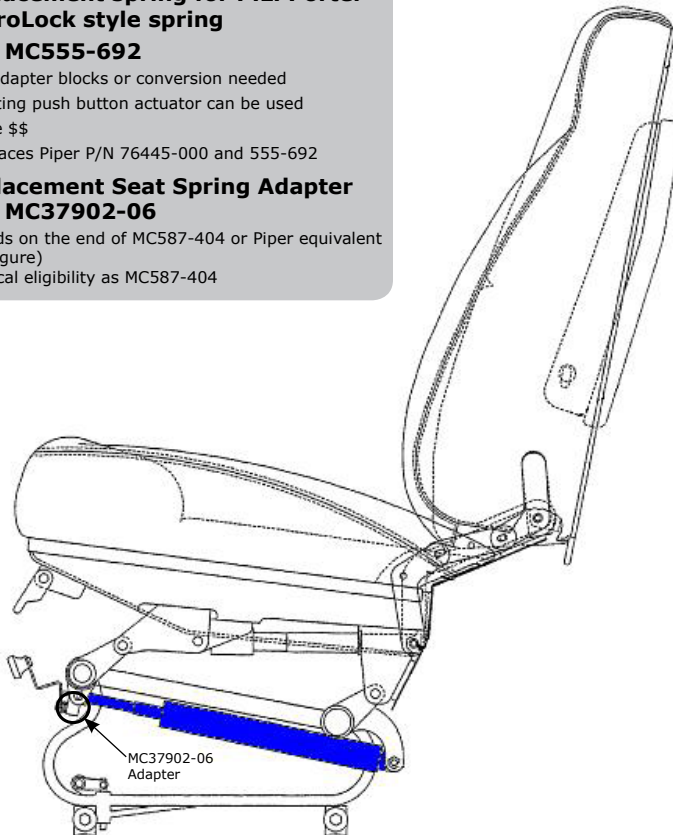
**Also Pending FAA Approval:**  
Replacement spring for P.L. Porter HydroLock style spring

P/N MC555-692

- No adapter blocks or conversion needed
- Existing push button actuator can be used
- Save \$\$
- Replaces Piper P/N 76445-000 and 555-692

**Replacement Seat Spring Adapter**  
P/N MC37902-06

Threads on the end of MC587-404 or Piper equivalent (see figure)  
Identical eligibility as MC587-404



- 1 When equipped with 89178-10.
- 2 Some Piper parts catalogs do not list part number 587-404 separately, but list an assembly part number of 89178-010 instead. McFarlane P/N MC587-404 replaces the spring component of this assembly.
- 3 Replaces Stabilus Bloc-O-Lift or Gas Spring Corp. Easy Lift style springs. Does not replace Piper P/N 76445-000 (P.L. Porter HydroLock style spring).



## Browline Style Seat Tracks/Cargo Tracks

- Perfect for homebuilt or experimental projects
- Slotted extrusion with 0.785" diameter openings every one inch.
- Dimension meet MS33601 except thinner for reduced weight.
- Compatible with common MS33601 cargo tie down and seat stud fittings. (see below)
- Precision machined and quality controlled
- Aerospace grade 7075-T6511 aluminum with full traceability

### Standard Lengths

**P/N 6656-L (L = the minimum length in inches)**

Anodized for corrosion protection.

Available in 6, 12, 18, 24, 36, 48, 160 and 179 inch lengths.

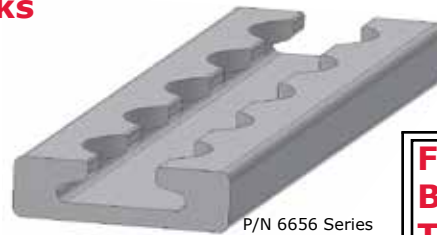
### P/N STE105

Slotted extrusion without machined 0.785" diameter openings.

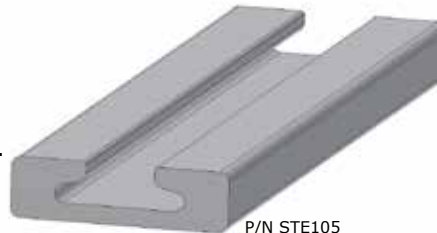
Non-anodized. Available by the inch.

### Custom Tracks

Custom lengths and machining available. Call for details.



P/N 6656 Series



P/N STE105

## Filler Strip for Browline Style Track

**P/N FE200751**

- Provides a finished look
- Keeps debris out of the track
- May be cut to length, sold in 25 Ft. roll



## Browline Style Anchor Plate

**P/N 40000-11**

- For use with single stud fittings
- Small and low profile, providing damage protection to cargo and baggage
- An ideal way to support single location fastening of nets, straps, or other equipment
- NSN Number 1560-01-286-1030
- Aluminum alloy, anodized

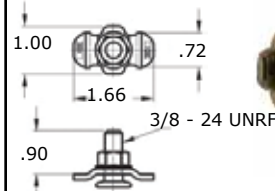
### Working load limit:

4000 lbs @ 0° vertical pull  
2000 lbs @ 90° horizontal pull



## Threaded Single Stud Fitting with Nut for Browline Style Track

**P/N FE200744**



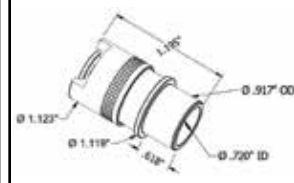
### Specifications

Material: Carbon Steel  
Finish: Zinc Plated  
Working Load Limit:  
5000 lbs @ 0° vertical pull  
2000 lbs @ 90° horizontal pull

## Chair Leg Stud Quick Release Anchor

**P/N MC41528-14**

- Use with Browline style track
- Spring loaded fitting snaps securely into place and can be easily moved to different positions.
- Designed to mate with 1" O.D. 0.035" wall tube or a 0.720" O.D. stud.
- 7075 Aluminum



## Cargo Tie Down Fittings for Browline Style Track

- Use with Browline style track (McFarlane P/N series 6656) or other MS33601 compatible track - sometimes called L-track
- Perfect for net or strap restraint applications
- Spring loaded fitting snaps securely into place and can be easily moved to different positions.



P/N 32401



P/N 40340-20



P/N 40340-21



P/N 47981-10



P/N 47981-11



P/N 32505



P/N 32507

P/N	Description	Figure	A	B	C	D	E	F	0° Vertical Working Load Limit lbs.	90° Horizontal Pull Angle Working Load Limit lbs.
32401	Single Stud Fitting with Ring	1	1.99"	0.93"	1.18"	0.19"	0.63"	1.23"	1333	1000
40340-20	Single Stud Fitting with Ring	1	1.87"	0.87"	1.12"	0.19"	0.71"	1.43"	1000	500
40340-21	Single Stud Fitting with D-Ring	2	2.00"	1.09"		0.19"	0.71"	1.43"	1000	500
47981-10	Double Stud Fitting with Round Ring	3	1.75"	2.32"	2.34"	0.31"	0.76"		10000	5000
47981-11	Double Stud Fitting with Twisted Ring	4	1.56"	2.32"	3.76"	0.27"	0.76"		5000	5000
32505	Triple Stud Fitting without Ring	5	1.12"	0.90"	2.60"				2167	1670
32507	Triple Stud Fitting with Pear Shaped Ring	6	1.12"	0.90"	1.16"	0.25"	4.90"		2000	1670

1 NSN Number 1670-01-243-8877

2 NSN Number 1670-01-261-0567

3 60° Pull angle working load limit = 2000 lbs.

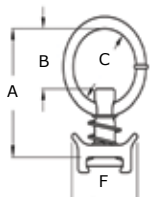


Figure 1

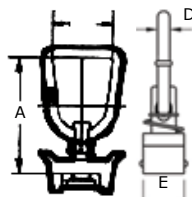


Figure 2

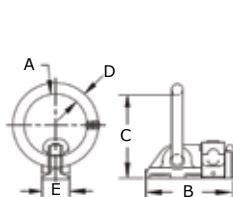


Figure 3

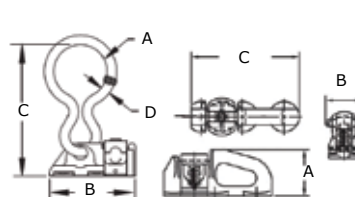


Figure 4

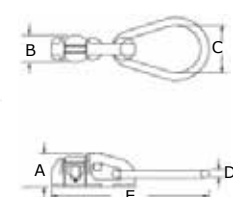


Figure 5

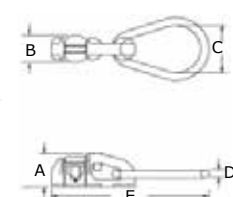
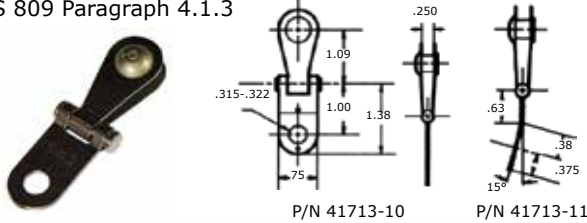


Figure 6

**Seat Belt Shackles**

**P/N 41713-10 and 41713-11**

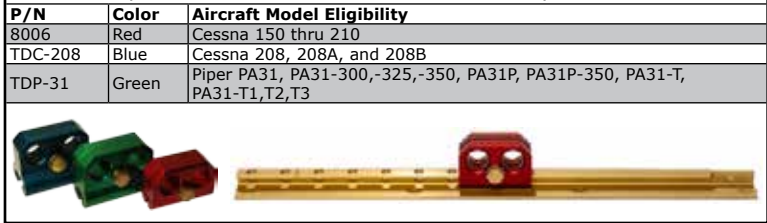
- High strength, low profile design
- Made especially for today's lightweight seats
- Stainless steel, cad plated
- Meets the load requirements of NAS 809 Paragraph 4.1.3



**Cargo Tie Downs**

- Clamps to seat rails to provide tie down points to secure cargo
- 4 required per every 100 lbs of cargo
- Anodized aluminum for durability
- FAA-PMA/STC

Note: This product is not to be used as a seat stop



P/N	Color	Aircraft Model Eligibility
8006	Red	Cessna 150 thru 210
TDC-208	Blue	Cessna 208, 208A, and 208B
TDP-31	Green	Piper PA31, PA31-300,-325,-350, PA31P, PA31P-350, PA31-T, PA31-T1,T2,T3

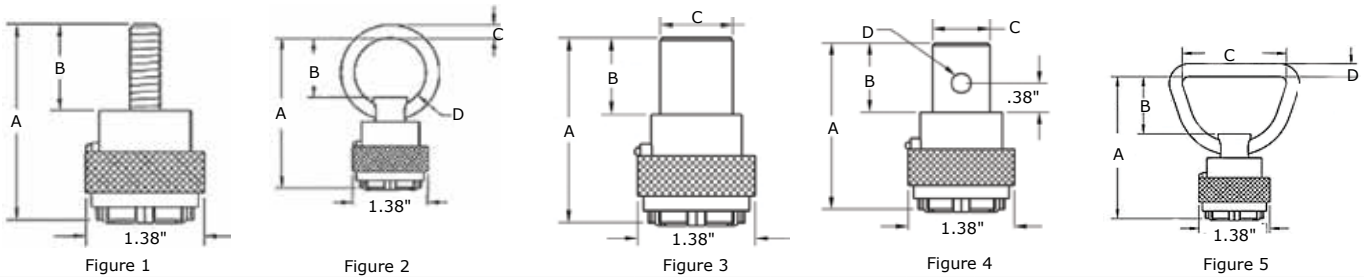
**12-Jaw Seat/Cargo Tie Down Quick Disconnect Adapters (MS22034 style)**

- Spring loaded ring locks jaws around stud, and spring loaded lock pin prevents accidental release.
- Use with P/N 34003-59 seat cargo stud (shown below). Also works with any MS21234, MS21235 and AM7516 style seat/cargo attach fittings.



P/N	Description	Figure	A	B	C	D	0° Vertical Breaking Strength lbs.	90° Pull Angle Breaking Strength lbs.
33115	12-Jaw, Threaded Stud, 1" x 3/8-24UNF Threaded Stud	1	2.26"	1.00"			5475	2300
33116	12-Jaw, Threaded Stud, 3/4" x 3/8-24UNF Threaded Stud	1	2.01"	.75"			5475	2300
32326	12-Jaw, Ring	2	2.85"	1.13"	.25"	1.31"	5475	2300
32334 <sup>1</sup>	12-Jaw, Chair Leg Stud, 0.85"	3	2.16"	.90"	.85"		N/A	2300
32336 <sup>2</sup>	12-Jaw, Chair Leg Stud, 0.88" with 1/4" Hole	4	2.16"	.90"	.88"	.25"	5475	2300
32340 <sup>3</sup>	12-Jaw, Chair Leg Stud, 0.85" with 1/4" Hole	4	2.16"	.90"	.85"	.25"	5475	2300
32343	12-Jaw, D-Ring	5	2.82"	1.1"	2.01"	.25"	5475	2300
32367 <sup>4</sup>	12-Jaw, Chair Leg Stud, 0.75" with 3/8" Hole	4	2.32"	1.06"	.75"	.375"	5475	2300

- <sup>1</sup> Replaces MS22034-1B
- <sup>2</sup> Replaces MS22034-2
- <sup>3</sup> Replaces MS22034-1
- <sup>4</sup> Replaces MS22034-3



**Seat/Cargo Stud for 12-Jaw Quick Disconnect Adapters**

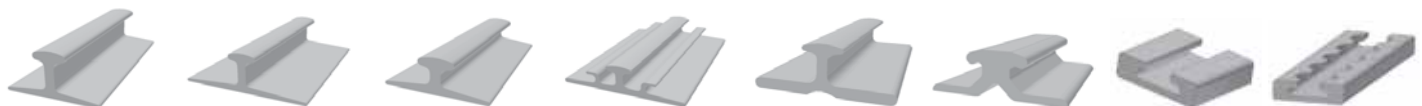
**P/N 34003-59**

- Standard head geometry is compatible with 12-Jaw quick disconnect adapters
- 3/8-24 UNF thread is 11/16" long
- 5/8" hex



**Seat Rail Extrusion**

Ideal for the home built aircraft! For custom projects McFarlane offers eight design types. Blank extrusion can be cut to most any length and is sold by the inch. We can also custom machine to your specifications.



P/N STE101 1 1/2" X 7/10" X 1/2"	P/N STE102 2 3/10" X 7/10" X 1/2"	P/N STE103 1 1/2" X 1/2" X 1/2"	P/N STE104 2 3/10" X 1/2" X 1/2"	P/N STE108 1 3/4" X 5/8" X 1/2"	P/N STE109 2 3/10" X 3/4" X 1"	P/N STE105 1.34" X 0.37"	P/N 6656 1.34" X 0.37"
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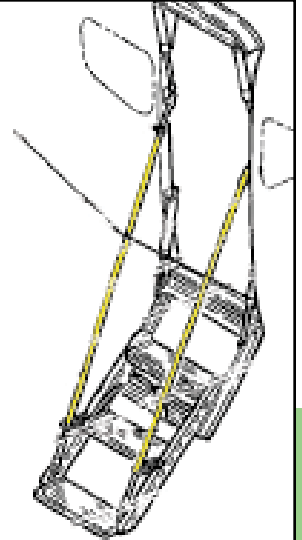
## Door Cables for Beechcraft, Cessna and Piper Aircraft

### Save \$\$

Pre-formed, stainless steel aircraft cables are sealed with silicon rubber that is easy to clean, will not crack due to wear or climate changes, does not separate from the cable and remains pliable for easy opening and closing of aircraft doors. Cables for Cessna aircraft are OEM light gray (has green tint), Beechcraft and Piper cables are dark grey with the exception of P/Ns 31750 and 31125 for pressurized aircraft (these are translucent).

- Unique pre-formed stainless steel aircraft cable
- Hand-crafted with the highest quality standards.
- FAA-PMA Approved

Manufactured by Aero-Cables Corp. and Seginus, Inc.



### Cessna Twins

Model	Serial Number	Lower Cabin Door Forward	Lower Cabin Door Aft	Cargo Door Fwd and Aft
T303	T30300001 thru T30300247	51-00 (303)		
	340A0201 thru 340A0600	32-75	31-25	
340A	340A0601 thru 340A1800	32-75 <sup>1</sup> , 51-00 <sup>2</sup>	31-25 <sup>1</sup> , 49-75 <sup>2</sup>	
	340A1801 and on <sup>3</sup>	48-75 <sup>3</sup>	50-00 <sup>3</sup>	
402C	402C0001 thru 402C0200	32-75 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	32-75 <sup>1</sup> , 50-00 <sup>2</sup> <sup>3</sup>	31-25 <sup>9</sup>
	402C0201 thru 402C0800	51-00 <sup>1</sup> <sup>4</sup> , 32-75 <sup>1</sup> <sup>5</sup> , 48-75 <sup>2</sup> <sup>3</sup>	49-75 <sup>1</sup> <sup>4</sup> , 32-75 <sup>5</sup> , 50-00 <sup>2</sup> <sup>3</sup>	31-25 <sup>9</sup>
	402C0801 and on	48-75 <sup>3</sup>	50-00 <sup>3</sup>	31-25 <sup>9</sup>
404	404-0401 thru 404-0600	32-75	32-75	32-75 <sup>9</sup>
	404-0601 and on	49-75	49-75	32-75 <sup>9</sup>
414	414-0001 thru 414-0900	56-00	47-625	
	414-0901 and On		47-625	
414A	414A0201 thru 414A0400	31-25 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	31-25 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	
421A	All		47-625 <sup>6</sup>	
421B	421B0001 thru 421B0970	56-00	47-625	
	421C0001 thru 421C0200	56-00	47-625	
421C	421C0601 thru 421C1000	31-25 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	31-25 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	
	421C1001 thru 421C1400	51-00 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	51-00 <sup>1</sup> , 48-75 <sup>2</sup> <sup>3</sup>	
	421C1401 and on	48-75 <sup>3</sup>	48-75 <sup>3</sup>	
425	425-0002 thru 425-0176	49-75 <sup>7</sup> , 50-00 <sup>3</sup> <sup>8</sup>	49-75 <sup>7</sup> , 50-00 <sup>3</sup> <sup>8</sup>	
	425-0177 and on	50-00 <sup>3</sup>	50-00 <sup>3</sup>	
441	441-0071 thru 441-0224	32-75	31-25	
	441-0225 thru 441-0311	49-75 <sup>7</sup> , 50-00 <sup>3</sup> <sup>8</sup>	49-75 <sup>7</sup> , 50-00 <sup>3</sup> <sup>8</sup>	
	441-0312 and on	50-00 <sup>3</sup>	50-00 <sup>3</sup>	



Supersedures	
Cessna P/N	Aero-Cables P/N
10888	51-00 (T303)
5111508-59	47-625
5111561-22	56-00
71540-10	32-75
71540-10	50-00
71540-2	31-25
71540-3	51-00
71540-4	49-75
71540-6	49-75
71540-7	51-00
71540-8	49-75
71540-9	48-75

- |                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><sup>1</sup> For aircraft incorporating SK421-117</p> <p><sup>2</sup> For aircraft NOT incorporating SK421-117</p> <p><sup>3</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement only lists T303.</p> <p><sup>4</sup> Used with pneumatic extender</p> <p><sup>5</sup> Used without pneumatic extender</p> | <p><sup>6</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement only lists 421B.</p> <p><sup>7</sup> For aircraft incorporating SK441-71</p> <p><sup>8</sup> For aircraft NOT incorporating SK441-71</p> <p><sup>9</sup> This cable is used at both the forward and aft location</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Cessna 208 Caravan

Model	S/N	P/N	Location
208, 208B	All	S2837-1EH	Passenger Door Step, Lower
		S2837-2EH	Passenger Door Step, Lower, (Float Plane)
		S2814-1EH	Cargo Door Pull, Upper
		S2814-2EH	Passenger Door Pull, Upper



**S2814-1EH Installation**

**S2814-2EH Installation**

**S2837-1EH or S2837-2EH Installation**

**Eligibility continues on the next page.**



FAA-PMA Approved

**Beechcraft - Handrail and Door Support Cables**

Model	Serial Number	Cabin Door Upper	Cabin Door Lower	Handrail Fwd Lower	Handrail Aft Upper	Handrail Aft Lower	Airstair Door	Other Locations
65	LC-15 and on	6800	2275					
65-80, 65-A80, 65-B80	All	6800	2275					
65-88								
65-90, 65-A90, 65-B90	LJ-685 thru LJ-1010	6900	2375					
C90								
C90, C90A	LJ-1011 thru LJ-1287				6900	2375		
C90A	LJ-1288 thru LJ-1755			2300 <sup>1</sup>	6900	2375		
E90	LW-179 and on	6900	2375					
F90	All				6900	2375		
100	B-2 thru B-51	6800	2275					
100, A100, B100	B-52 and On	6900	2375					
B200, B200T	All			2300	6900	2375		7618 7405 3904 3636
B200C, B200CT							6300 <sup>7,9</sup> 2375 <sup>8</sup>	
300, 300LW					6900	2375		
B300	All			2300	6900	2375		
B300C	All						6300 <sup>7,9</sup> 2375 <sup>8</sup>	
1900, 1900C	All						7600 <sup>3</sup> 7310 <sup>4,2</sup> 2100 <sup>5</sup> 1790 <sup>6,2</sup> 1528 <sup>6</sup>	7525 <sup>2</sup> 3750 <sup>2,9</sup> 7225 <sup>2</sup> 3437 <sup>2</sup>

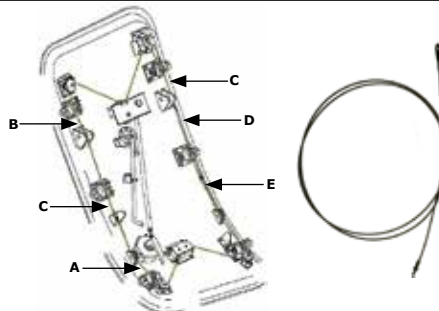


<sup>1</sup> Except for S/Ns LJ-1289 thru LJ-1294, and LJ-1296 thru LJ-1299  
<sup>2</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement does not list eligibility for these aircraft.  
<sup>3</sup> Fwd Door, Fwd and Aft  
<sup>4</sup> Aft Door, Fwd and Aft  
<sup>5</sup> Fwd and Aft Door, Aft  
<sup>6</sup> Fwd and Aft Door, Fwd  
<sup>7</sup> Upper  
<sup>8</sup> Lower  
<sup>9</sup> Price list shows this P/N with (CABLE) suffix.

Supersedures	
Beech P/N	Aero-Cables P/N
132427-A40	7525
132538-A13	6300 (CABLE)
132538-A18	2170
132538-A19	2375
132538-A20	6900
132538-A21	2300
132538-A28	7600
132538-A29	7310
132538-A3	6800
132538-A30	2100
132538-A32	1790
132538-A34	1528
132538-A37	3904
132538-A4	2275
132538-A41	3750 (CABLE)
132538-A42	7225
132538-A43	3437
1440-13	6300 (CABLE)
1440-18	2170
1440-19	2375
1440-20	6900
1440-21	2300
1440-28	7600
1440-29	7310
1440-3	6800
1440-30	2100
1440-32	1790
1440-34	1528
1440-35	7618
1440-36	7405
1440-37	3904
1440-38	3636
1440-4	2275
1440-40	7525
1440-41	3750 (CABLE)
1440-42	7225
1440-43	3437

**Beechcraft - Airstair Door Latch Cables**

Model	Serial Number	Airstair Door Latch	Index
1900, 1900C, 1900C (C-12J)	All	114-514030-1AC	A
		114-514030-9AC	B
		114-514030-13AC	C
		114-514030-17AC	D
		114-514030-21AC	E
1900D	All	129-514059-1AC	
		129-514059-13AC	
		129-514059-25AC	
		129-514059-33AC	



**Piper Twins**

Model	Serial Number	Cabin Door Step Support	Cabin Entrance Door	Cargo Door Upper	Cargo Door Lower	Other Locations
PA-31-300	31-228 thru 31-511		48500 (rear)	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-310	31-5 thru 31-104			227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-310	31-105 thru 31-900 31-7300901 and on		48500 (rear) <sup>4</sup>	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-310	31-8312001 to 31-8312019		50000 (front) <sup>4</sup> 48500 (rear) <sup>4</sup>	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-325	31-7400990 thru 31-8212036		48500 (rear)	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-325	31-8312001 thru 31-8312019		50000 (front) 48500 (rear)	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-350	31-5001 thru 31-8252085		48500 (rear)	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31-350	31-8352001 and on		50000 (front) 48500 (rear)	227 <sup>3</sup>	236 <sup>1,3</sup> 330 <sup>2,3</sup>	
PA-31T	31T-7400002 thru 31T-8120061	73000 (fwd) 70000 (aft) <sup>5</sup>				40250
PA-31T	31T-8120062 and on	73000 (fwd) 70000 (aft) <sup>5</sup>	41250 (lower) <sup>6</sup> 30250 (upper) <sup>6</sup>			40250
PA-31T1	31T-1104004 thru 31T-8304003	73000 (fwd) 70000 (aft) <sup>5</sup>	41250 (lower) <sup>6</sup> 30250 (upper) <sup>6</sup>			40250
PA-32T2	31T-1166001 thru 31T-8166076	73000 (fwd) 70000 (aft) <sup>5</sup>	41250 (lower) <sup>6</sup> 30250 (upper) <sup>6</sup>			40250
PA-42	48-7800001 thru 48-8001035	73000 (fwd)				40250
PA-60-600	All					SP31125 <sup>9</sup> SP31750 <sup>9</sup>
PA-60-601P, 602P, 700P	All					31125 <sup>8</sup> 31750 <sup>8</sup> SP31125 <sup>7,9</sup> SP31750 <sup>7,9</sup>



Supersedures	
Piper P/N	Aero-Cables P/N
01679-003	41250
01679-004	30250
250039-001	SP31125
250039-501	SP31750
250039-503	31125
250039-505	31750
44523-003	48500
44523-004	50000
44562-000	227
44563-000	236
44563-000	330
47716-004	70000
47716-005	73000
72930-009	40250

<sup>1</sup> Cable with link  
<sup>2</sup> Cable without link  
<sup>3</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement lists only PA-31, PA-31T1, PA-31T2.  
<sup>4</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement lists only PA-31, PA-31-300, PA-31-325, and PA-31-350.  
<sup>5</sup> Used if cargo door is NOT installed  
<sup>6</sup> Used if cargo door is installed  
<sup>7</sup> Eligibility is accurate per Aero-Cables Corp, however PMA Supplement lists only PA60-600 models as eligible.  
<sup>8</sup> Used on pressurized aircraft  
<sup>9</sup> Used on non-pressurized aircraft

## Nosecone Baggage Door Latch/Lock Kits for Piper Aircraft

### Save \$\$ Satisfying AD2009-13-06R1 Requirements for PA-23, PA-31, and PA-42 Series Aircraft

Improved FAA-PMA direct replacement lock and placard kits and convenient kits for all hardware required by Piper Service Bulletin 1194B to comply with AD2009-13-06R1. This AD requires a placard on the baggage door, lube and inspection of all door latching components every 100 hours and replacement of many of the components every 1000 hours.

#### Lock Assembly Kit P/N MC88409-002

- Pre-assembled lock and offset cam helps prevent installation mistakes
- Includes clear instructions
- FAA-PMA direct replacement

#### Placard Kit P/N MC88451-002

- Kit contains both a black and white version to contrast with any paint scheme
- FAA-PMA direct replacement

#### Complete Kits with All 1000 Hour Mandatory Replacement Hardware

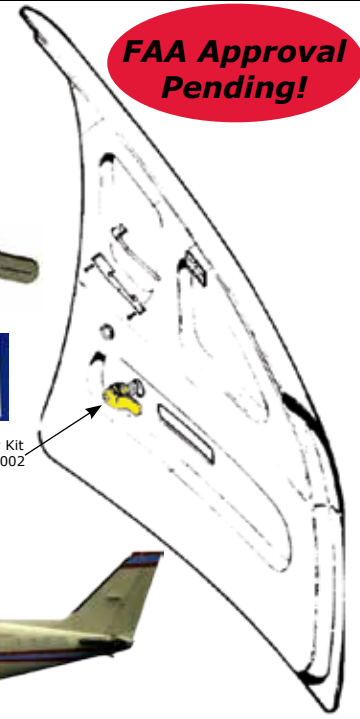
Contains: MC88409-002, standard hardware, Piper original springs

Model	Complete Hardware Kit	Lock Assembly Kit	Placard Kit
PA-23-250, PA-E23-250	PBDL-KT-1	MC88409-002	MC88451-002
PA-31, PA-31-300, PA-31-325	PBDL-KT-2	MC88409-002	MC88451-002
PA-31-350 and T-1020	PBDL-KT-2	MC88409-002	MC88451-002
PA-31P, PA-31P-350	PBDL-KT-3	MC88409-002	MC88451-002
PA-31T, PA-31T1, PA-31T2, PA-31T3	PBDL-KT-3	MC88409-002	MC88451-002
PA-42, PA-42-720	PBDL-KT-3	MC88409-002	MC88451-002
PA-42-1000	PBDL-KT-3 (Forward)	MC88409-002	MC88451-002
	PBDL-KT-4 (Aft)		



Lock Assembly Kit P/N MC88409-002

**FAA Approval Pending!**



## Cabin Entry Step for Cessna Aircraft

**Part Numbers WAC711006-1 (left), -2 (right)**

- Stronger than the original
- Streamline tubing
- Internally oiled and sealed to prevent corrosion
- Direct replacement for original
- Includes anti-slip tape P/N WAC711006-8

Model	Serial Number
170, 170A,B	18000 thru 27169
180, 180A,B,C,D,E,F,G,H	30000 thru 18051875
185, 185A,B,C,D,E, A185E	1850001 thru 1851300

Partial model eligibility

Now manufactured by McFarlane!



## Boot Cowl Handle

**Slightly larger to accommodate gloves!**  
P/N 3354H

180H,J, A185E,F, U206/TI206A,B,C,D,E,F,G, P206/TP206A

- Includes doubler
- Undrilled
- May not match up with existing bolt pattern due to alternate styles used by OEM.
- Replacement for P/N 0713191-1

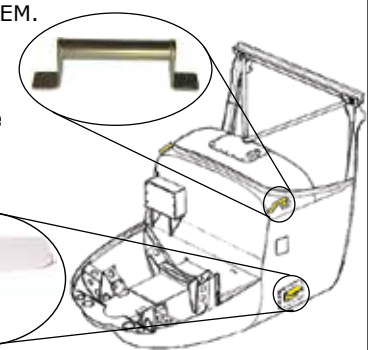
## Boot Cowl Step

**Slightly larger to accommodate hunting and fishing footwear!**  
P/N 3354S

U206/TU206A,B,C,D,E,F,G, P206/TP206A

- Includes doubler
- Undrilled
- White powder coating
- Direct replacement for P/N 124022-5
- 2 per aircraft

Manufactured by F Atlee Dodge



## Door Latch for Piper Navajo PA-31 Aircraft

**Will not deform after extended use!**

**P/N AF472-004**

- Improved wear resistance
- Precision wire EDM machined from solid stainless steel
- Precision fit - drop in direct replacement
- Approved for all PA-31-310, 325 and 350 models with and without extended cargo door. Manufactured by Airforms, Inc.



## Main Gear Long Step

FAA-PMA/STC

**Easy clamp-on modification**

**Much easier cabin entry**

**P/N 3195**

AE-1, HE-1, J3, J4, J5, PA11, PA12, PA14, PA18, PA19 Series

The Main Landing Gear Long Step is usable on both sides of the aircraft as an entry step or refueling step. Heavy tube with 3 sizes of clamps.

- A must for bush gear and tires
- Alaska tested
- Durable non-skid surface stays on
- Powder coated white for durable corrosion resistance
- Available in "Wolf Hunter" Black for an additional charge

Manufactured by F Atlee Dodge



## Refueling Step

FAA-PMA/STC

**No more step ladders**

**P/Ns 3190/-10, 3190/-11, 3190/-12**

J3C-65, J3F-50, J3F-60, J3F-65, J-3L, J3L-65, J-4, J-4A, J-4B, J-5A, J5C, PA-11, 12, 14, 15, 16, PA18-105, 125, 135, A-135, 150, A-150, PA-19, PA-20, PA-20-115, PA-20-135, PA-22-108, 135, 150, 160

Clamps onto the main gear leg for easier refueling.

- Select part number by landing gear front tube OD:  
1.25" OD use P/N 3190/-10,  
1.375" OD use P/N 3190/-11  
1.5" OD use P/N 3190/-12
- Powder coated white, available in "Wolf Hunter" Black for an additional charge

Manufactured by F Atlee Dodge



FAA-PMA Approved

**McFarlane now offers a huge selection of plastic and fiberglass trim and fairings for your aircraft!**

Plastic and fiberglass interior and exterior parts from Texas Aeroplastics, Knots2U and Stene Aviation offer high quality FAA-PMA replacement parts at affordable prices.



**Texas Aeroplastics**

Texas Aeroplastics replacement parts are made from top grade ABS plastic with an average service life of 15-20 years when properly fitted and professionally painted. ABS plastic parts are repairable and most have been trimmed for easy installation. All exterior ABS plastic parts are white. All interior parts are fire rated, top-grade Royalite with an ivory or off-white haircell finish.



**Knots 2U**

Knots 2U replacement parts are made from the highest quality hand laid fiberglass. This provides for superior strength, reduced weight, and long life. The latest technology resins are used to prevent warping and shrinkage that can happen with other fiberglass. Advanced tooling and pattern techniques assure a superior fit.



**Stene Aviation**

Stene Aviation fiberglass replacement parts are five times stronger than the original plastic parts offered by Cessna. They are exact replacements of the originals and come primed and ready for paint. The product line includes Cessna wing tips, strut cuffs, fin caps, rudder caps/bottoms, stabilizer tips, wheel pants, and much more.



**Wing Tips**

- Available in plastic and fiberglass
- Conical wing tips accommodate both a strobe and nav light
- Symmetrical wing tips accommodate a strobe light



**Main Wheel Fairings (Wheel Pants)**

**Easy tire valve access!**

- Available in fiberglass
- Knots 2U main wheel fairings feature an access door to easily check tire pressure.
- Stene Aviation main wheel fairings feature a removable plastic plug to easily check tire pressure



**Nose Wheel Fairings (Wheel Pants)**

**Easy tire valve access!**

- Available in ABS plastic and fiberglass
- Knots 2U nose gear fairings feature an access door to easily check tire pressure.
- Stene Aviation and Texas Aeroplastics nose gear fairings feature a removable plastic plug to easily check tire pressure.



**Cowl Fairings**

Available in fiberglass





## Interior Parts

**Restore your interior to new!**

Available in fire rated ABS plastic with a haircell finish

### Door Panels

- Double laminated
- Updated styling
- Some feature a black plastic exterior armrest cap



### Baggage Compartment Panel



### Seatback Panel

Includes map pocket!



### Center Console

1/4" plastic base to prevent breakage at the fastener locations



### Shoulder Harness Tray

Double laminated for strength



### Post Covers



## Main Landing Gear Fairings

Split for easy installation. Available in plastic from Texas Aeroplastics...



...and in fiberglass from Stene Aviation



## Strut Fairings

**Strut to Wing and Strut to Fuselage fairings**

Plastic un-split (FAA-PMA) fairings by Texas Aeroplastics.

Fiberglass split fairings (FAA-PMA/STC) for easy installation, and un-split (FAA-PMA) by Stene Aviation.

Plastic PRO Split fairings (FAA-PMA) for easy installation by Knots 2U.



## Lower Rear Wing Fairings

Available in fiberglass



## Tailwheel Steering Cable Fairings

Available in fiberglass



## Tailcone Fairings

Available in plastic and fiberglass



## Vertical Fin Caps

Available in plastic and fiberglass no flashing beacon



### 2-1/4" Beacon Base



### 3-1/2" Beacon Base



## Rudder Caps

Available in plastic and fiberglass.

### Rudder Top Caps



### Rudder Butts



## Brake Cover Fairings

Split for easy installation.

Available in plastic from Texas Aeroplastics...

...and in fiberglass from Stene Aviation



## Dorsal Fin Tips

Available in plastic and fiberglass.

### Forward Dorsal Fin Tips

Small triangle at the front of the dorsal fin



### Aft Dorsal Fin Tips

Dorsal fin transition into the vertical fin



## Elevator Tips

Available in plastic and fiberglass



## Fuel Strainer Cover

Available in fiberglass



## Trailing Edge Wing Root Fairing

Available in fiberglass



## Horizontal Stabilizer Tips

Available in plastic and fiberglass



Go to [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for more details about specific part numbers.

FAA-PMA Approved



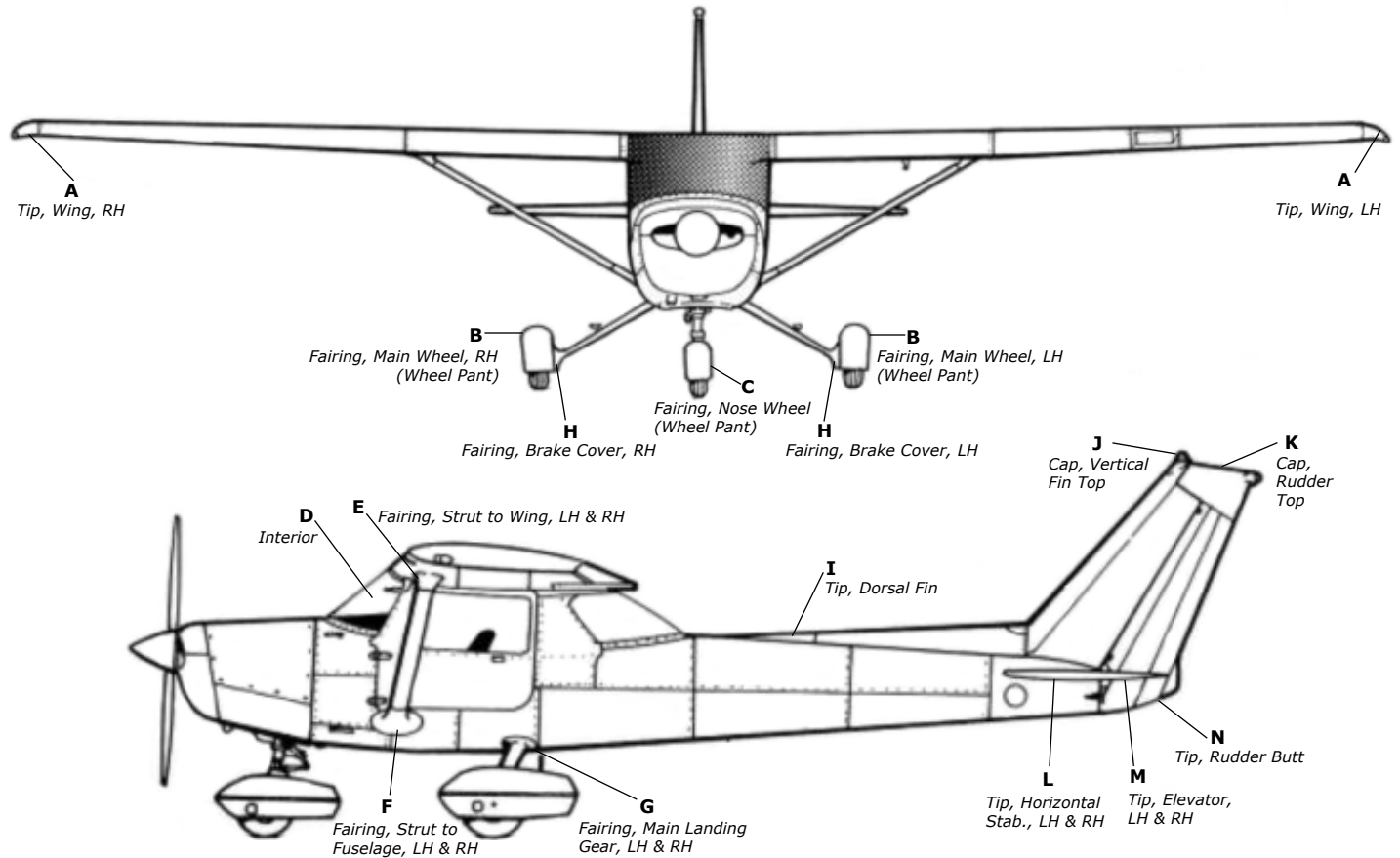
## Cessna 150-152 Series Aircraft

**Improve the appearance and performance of your aircraft!**

Wing tips, strut and landing gear fairings, tail surface fairings, and interior parts for Cessna 150-152 series aircraft available in plastic and fiberglass.

**SAVE!!**

Eligibility tables for Cessna 150-152 aircraft with item descriptions, index reference and part numbers can be found on the following pages. Go to [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for more details about specific part numbers.



Kits for 150-152 aircraft			
Kit P/N	Kit Description	Part Number	Item Description
20-51-80A	Conical Wing Tip Kit	20-51L-80A	Tip, Wing, LH
		20-51R-80A	Tip, Wing, RH
26-02-80A	Door Panel Kit	66-150LD	Panel, Door LH
		66-150RD	Panel, Door RH
26-03D-80A	Door Panel Kit	67-82-150LD	Panel, Door LH
		67-82-150RD	Panel, Door RH
26-04-80A	Strut Fairing Kit, Plastic	150-LFS	Fairing, Strut to Fuselage, LH
		150-RFS	Fairing, Strut to Fuselage, RH
		150-LWS	Fairing, Strut to Wing, LH
		150-RWS	Fairing, Strut to Wing, RH
26-05-80A	Landing Gear Fairing Kit Flat Gear Only	FS-150-LG	Fairing, Main Landing Gear, LH
		FS-150-RG	Fairing, Main Landing Gear, RH
26-06-80A	Landing Gear Fairing Kit Tube Gear Only	26-06L	Fairing, Main Landing Gear, LH
		26-06R	Fairing, Main Landing Gear, RH
26-07-80A	Brake Cover Fairing Kit	26-07-LBC	Fairing, Brake Cover, LH
		26-07-RBC	Fairing, Brake Cover, RH
26-13-80A	Post Cover Kit	26-13L	Cover, Post, LH
		26-13R	Cover, Post, RH
KPS04	Split Strut Fairing Kit, Plastic	K0421002-1	Fairing, Strut to Fuselage, LH
		K0421002-2	Fairing, Strut to Fuselage, RH
		K0522150-3	Fairing, Strut to Wing, LH
		K0522150-4	Fairing, Strut to Wing, RH
SA-0421002-1234 SP	Split Strut Fairing Kit, Fiberglass	SA-0421002-1SP	Fairing, Strut to Fuselage, LH
		SA-0421002-2SP	Fairing, Strut to Fuselage, RH
		SA-0522150-3SP	Fairing, Strut to Wing, LH
		SA-0522150-4SP	Fairing, Strut to Wing, RH



## Cessna 150-152 Series Aircraft

150, 150A,B,C,D,E S/N 17001 thru 15061532		
Description	Idx	Part Number
Fairing, Main Lndg Gear LH	G	FS-150-LG <b>T</b>
Fairing, Main Lndg Gear RH	G	FS-150-RG <b>T</b>
Fairing, Strut to Fuslg LH	F	SA-0421002-1SP <b>4 S</b>
Fairing, Strut to Fuslg RH	F	SA-0421002-2SP <b>4 S</b>
Fairing, Strut to Wing, LH	E	SA-0522150-3SP <b>4 S</b>
Fairing, Strut to Wing, RH	E	SA-0522150-4SP <b>4 S</b>
Rudder Bottom	N	K0430004-1-791 <b>K</b> SA-0430004-1 <b>S</b>
Rudder Top	K	GF0430004-2-791 <b>1 K</b> SA-0430004-2 <b>1 S</b> SA-0430004-8 <b>3 S</b> GF0430004-00 <b>1 K</b> GF0430004-7-791 <b>3 K</b> SA-0430004-4 <b>1 S</b> SA-0430004-7 <b>3 S</b>
Tip, Dorsal Fin, Vertical	I	26-09 <b>T</b> GF0430004-10791 <b>3 K</b> GF0430004-5-791 <b>1 K</b> SA-0430004-10 <b>3 S</b> SA-0430004-5 <b>1 S</b>
Tip, Elevator, LH or RH	M	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>3 S</b> GF0430004-6-791 <b>1 K</b> SA-0430004-6 <b>1 S</b>
Tip, Horiz., Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>3 S</b> GF0430004-6-791 <b>1 K</b> SA-0430004-6 <b>1 S</b>
Tip, Vertical & Horizontal Stab	J	SA-0430004-9 <b>3 S</b>
Tip, Vertical, No Beacon	J	SA-0430004-9 <b>3 S</b>
Tip, Wing, Conical, LH	A	SA-0523565-29 <b>S</b>
Tip, Wing, Conical, RH	A	SA-0523565-30 <b>S</b>
Tip, Wing, Std., LH or RH	A	K0723615-200 <b>K</b> SA-0723615-200 <b>S</b>

**1** S/N 17001 thru 15060087 only  
**2** S/N 17001 thru 15059350 only  
**3** S/N 15060088 and on  
**4** FAA-PMA/STC approved split fairing for easy installation and removal.

**150F,G,H,J,K**  
 S/N 15061533 thru 15072003

Description	Idx	Part Number
Cap, Rudder Top	K	26-0431013-1-80A <b>T</b> SA-0431013-1 <b>S</b>
Cap, Vertical Fin Top No Beacon Base	J	K0431013-3-791 <b>K</b> SA-0431013-3 <b>S</b>
Cap, Vertical Fin Top 2 1/4" Beacon Base	J	26-0431017-1-80A <b>T</b> SA-0431017-1 <b>S</b>
Fairing, Main Lndg Gear LH	G	FS-150-LG <b>T</b>
Fairing, Main Lndg Gear RH	G	FS-150-RG <b>T</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>7 K</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	K0741046-202 <b>7 K</b>
Fairing, Nose Wheel (Wheel Pant)	C	K0743625-14 <b>7 K</b>
Fairing, Strut to Fuselage, LH	F	150-LFS <b>2 T</b> K0421002-1 <b>3 G K</b> SA-0421002-1 <b>5 S S</b>
Fairing, Strut to Fuselage, RH	F	150-RFS <b>2 T</b> K0421002-2 <b>3 G K</b> SA-0421002-2 <b>5 S S</b>
Fairing, Strut to Wing, LH	E	150-LWS <b>2 T</b> K0522150-3 <b>3 G K</b> SA-0522150-3 <b>5 S S</b>
Fairing, Strut to Wing, RH	E	150-RWS <b>2 T</b> K0522150-4 <b>3 G K</b> SA-0522150-4 <b>5 S S</b>
Panel, Baggage Cmpt	D	26-26 <b>4 T</b>
Panel, Door, LH	D	66-150LD <b>1 T</b> 67-82-150LD <b>2 T</b>
Panel, Door, RH	D	66-150RD <b>1 T</b> 67-82-150RD <b>2 T</b>
Tip, Dorsal Fin	I	SA-0431024-1 <b>S</b>
Tip, Elevator, LH or RH	M	26-09 <b>T</b> GF0430004-10791 <b>K</b> SA-0430004-10 <b>S</b>
Tip, Horizontal Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>S</b>

Eligibility continues in the next column

Continued from previous column		
Description	Idx	Part Number
Tip, Rudder Butt	N	26-11 <b>T</b> GF0431005-1-791 <b>K</b> SA-0431005-1 <b>S</b>
Tip, Wing, Conical, LH	A	20-51L-80A <b>4 T</b> SA-0523565-29 <b>S</b>
Tip, Wing, Conical, RH	A	20-51R-80A <b>4 T</b> SA-0523565-30 <b>S</b>
Tip, Wing, Sym., LH or RH	A	26-0423008-3-80A <b>T</b> SA-0423008-3 <b>S</b>

**1** S/N 15061533 thru 15064532 only  
**2** S/N 15064533 and on  
**3** S/N 15067199 and on  
**4** S/N 15071129 and on  
**5** Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N.  
**6** This is an ABS plastic part, split for easy installation.  
**7** S/N 15069309 and on

**150L,M**  
 S/N 15072004 thru 15079405

Description	Idx	Part Number
Cap, Rudder Top	K	26-15-80A <b>5 T</b> GF0430011-2 <b>5 K</b> SA-0430011-2 <b>5 S</b> SA-0431013-1 <b>2 S</b>
Cap, Vertical Fin Top No Beacon Base	J	K0431013-3-791 <b>K</b> SA-0431013-3 <b>S</b>
Cap, Vertical Fin Top 2 1/4" Beacon Base	J	26-0431017-1-80A <b>2 T</b> 26-12 <b>5 T</b> GF0430011-1 <b>5 K</b> SA-0430011-1 <b>5 S</b> SA-0431017-1 <b>2 S</b>
Center Console	D	26-23 <b>T</b>
Cover, Post, LH	D	26-13L <b>5 T</b>
Cover, Post, RH	D	26-13R <b>5 T</b>
Fairing, Brake Cover, LH	H	26-07-LBC <b>5 T</b> SA-0441227-1 <b>S</b>
Fairing, Brake Cover, RH	H	26-07-RBC <b>5 T</b> SA-0441227-2 <b>S</b>
Fairing, Main Landing Gear, LH	G	26-06L <b>T</b> SA-0441217-15 <b>S</b>
Fairing, Main Landing Gear, RH	G	26-06R <b>T</b> SA-0441217-14 <b>S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01 <b>4 K</b> SA-0541203-1 <b>1 S</b> SA-0541223-17 <b>3 S</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	GF0541223-02 <b>4 K</b> SA-0541203-2 <b>1 S</b> SA-0541223-16 <b>3 S</b>
Fairing, Nose Wheel (Wheel Pant)	C	20-40N-80A <b>T</b> GF0543079-00 <b>7 B K</b> SA-0543065-1 <b>1 S</b> SA-0543079-3 <b>3 S</b>
Fairing, Strut to Fuselage, LH	F	150-LFS <b>T</b> K0421002-1 <b>9 K</b> SA-0421002-1 <b>8 S</b>
Fairing, Strut to Fuselage, RH	F	150-RFS <b>T</b> K0421002-2 <b>9 K</b> SA-0421002-2 <b>8 S</b>
Fairing, Strut to Wing, LH	E	150-LWS <b>T</b> K0522150-3 <b>9 K</b> SA-0522150-3 <b>8 S</b>
Fairing, Strut to Wing, RH	E	150-RWS <b>T</b> K0522150-4 <b>9 K</b> SA-0522150-4 <b>8 S</b>
Panel, Baggage Cmpt	D	26-26 <b>2 T</b>
Panel, Door, LH	D	67-82-150LD <b>T</b>
Panel, Door, RH	D	67-82-150RD <b>T</b>
Panel, Interior Seatback	D	26-19 <b>6 T</b>
Tip, Dorsal Fin	I	26-10 <b>T</b> SA-0431024-1 <b>S</b>
Tip, Elevator, LH or RH	M	26-09 <b>T</b> GF0430004-10791 <b>K</b> SA-0430004-10 <b>S</b>
Tip, Horizontal Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>S</b>

Eligibility continues in the next column

Continued from previous column		
Description	Idx	Part Number
Tip, Rudder Butt	N	26-11 <b>T</b> GF0431005-1-791 <b>K</b> SA-0431005-1 <b>S</b>
Tip, Wing, Conical, LH	A	20-51L-80A <b>T</b> GF0523565-29791 <b>T</b> SA-0523565-29 <b>S</b>
Tip, Wing, Conical, RH	A	20-51R-80A <b>T</b> GF0523565-30791 <b>T</b> SA-0523565-30 <b>S</b>
Tip, Wing, Sym., LH or RH	A	26-0423008-3-80A <b>T</b> SA-0423008-3 <b>S</b>
Tray, Shoulder Harness	D	20-14 <b>3 T</b>

**1** S/N 15072004 thru 15074850 only  
**2** S/N 15072004 thru 15075781 only  
**3** S/N 15074851 and on  
**4** S/N 15074851 thru 15077005 only  
**5** S/N 15075782 and on  
**6** S/N 15075782 thru 15077005 only  
**7** Not for aircraft with heavy duty nose gear  
**8** Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N.  
**9** This is an ABS plastic part, split for easy installation.

**A150K,L,M**  
 S/N A1500001 thru A1500734

Description	Idx	Part Number
Cap, Rudder Top	K	26-0431013-1-80A <b>1 T</b> 26-15-80A <b>6 T</b> GF0430011-2 <b>6 K</b> SA-0430011-2 <b>6 S</b> SA-0431013-1 <b>1 S</b>
Cap, Vertical Fin Top No Beacon Base	J	K0431013-3-791 <b>1 K</b>
Cap, Vertical Fin 2 1/4" Beacon Base	J	26-12 <b>6 T</b> GF0430011-1 <b>6 K</b> SA-0430011-1 <b>6 S</b> SA-0431017-1 <b>1 S</b>
Fairing, Brake Cover, LH	H	SA-0441227-1 <b>6 S</b>
Fairing, Brake Cover, RH	H	SA-0441227-2 <b>6 S</b>
Fairing, Main Landing Gear, LH	G	26-06L <b>T</b> SA-0441217-15 <b>3 S</b>
Fairing, Main Landing Gear, RH	G	26-06R <b>T</b> SA-0441217-14 <b>3 S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01 <b>4 K</b> K0741046-203 <b>7 K</b> SA-0541203-1 <b>2 S</b> SA-0541223-17 <b>5 S</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	GF0541223-02 <b>4 K</b> K0741046-202 <b>7 K</b> SA-0541203-2 <b>2 S</b> SA-0541223-16 <b>5 S</b>
Fairing, Nose Wheel (Wheel Pant)	C	20-40N-80A <b>3 T</b> GF0543079-00 <b>5 K</b> K0743625-14 <b>7 K</b> SA-0543065-1 <b>2 S</b> SA-0543079-3 <b>5 S</b>
Fairing, Strut to Fuslg, LH	F	SA-0421002-3 <b>S</b>
Fairing, Strut to Fuslg, RH	F	SA-0421002-4 <b>S</b>
Fairing, Strut to Wing, LH	E	SA-0522150-7 <b>S</b>
Fairing, Strut to Wing, RH	E	SA-0522150-6 <b>S</b>
Tip, Elevator, LH or RH	M	26-09 <b>T</b> GF0430004-10791 <b>K</b> SA-0430004-10 <b>S</b>
Tip, Horizontal Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>S</b>
Tip, Rudder Butt	N	26-11 <b>T</b> GF0431005-1-791 <b>K</b> SA-0431005-1 <b>S</b>
Tip, Wing, Conical Camber, LH	A	20-51L-80A <b>T</b> GF0523565-29791 <b>3 K</b> SA-0523565-29 <b>S</b>
Tip, Wing, Conical Camber, RH	A	20-51R-80A <b>T</b> GF0523565-30791 <b>3 K</b> SA-0523565-30 <b>S</b>
Tip, Wing, Sym., LH or RH	A	26-0423008-3-80A <b>T</b> SA-0423008-3 <b>S</b>

Eligibility continues on the next page

**K** Fiberglass Parts Manufactured By Knots 2U      **S** Fiberglass Parts Manufactured By Stene Aviation      **T** ABS Plastic Parts Manufactured By Texas Aeroplastics

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## Cessna 150-152 Series Aircraft

**Continued from previous page**  
**1** S/N A1500001 thru A1500523 only  
**2** S/N A1500227 thru A1500429 only  
**3** S/N A1500227 and on  
**4** S/N A1500430 thru A1500523 only  
**5** S/N A1500430 and on  
**6** S/N A1500524 and on  
**7** S/N A1500001 thru A1500226

**F150G,H,J,K,L,M, FA150K,L,M, FRA150L,M**  
 S/N F150-0001 thru F15001428,  
 FA1500001 thru FA1500336,  
 FRA1500121 thru FRA1500261

Description	Idx	Part Number
Cap, Rudder Top	K	26-15-80A <b>9 T</b> GF0430011-2 <b>8 K</b>
Cap, Vertical Fin Top No Beacon Base	J	K0431013-3-791 <b>1 K</b>
Fairing, Main Lndg Gear LH	G	26-06L <b>6 T</b>
Fairing, Main Lndg Gear RH	G	26-06R <b>6 T</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01 <b>7 K</b> K0741046-203 <b>12 K</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	GF0541223-02 <b>7 K</b> K0741046-202 <b>12 K</b>
Fairing, Nose Wheel, Wheel Pant	C	20-40N-80A <b>6 T</b> GF0543079-00 <b>7 K</b> K0743625-14 <b>11 K</b>
Fairing, Strut to Fuselage, LH	F	150-LFS <b>T</b> K0421002-1 <b>3 10 K</b>
Fairing, Strut to Fuselage, RH	F	150-RFS <b>T</b> K0421002-2 <b>3 10 K</b>
Fairing, Strut to Wing, LH	E	150-LWS <b>T</b> K0522150-3 <b>3 10 K</b>
Fairing, Strut to Wing, RH	E	150-RWS <b>T</b> K0522150-4 <b>3 10 K</b>
Tip, Elevator, LH or RH	M	26-09 <b>T</b> GF0430004-10791 <b>2 K</b>
Tip, Rudder Butt	N	26-11 <b>4 T</b> GF0431005-1-791 <b>2 K</b>
Tip, Horizontal Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>2 K</b>
Tip, Wing, Con. Camber LH	A	GF0523565-29791 <b>K</b>
Tip, Wing, Con. Camber RH	A	GF0523565-30791 <b>K</b>
Tip, Wing, LH	A	20-51L-80A <b>5 T</b>
Tip, Wing, RH	A	20-51R-80A <b>5 T</b>
Tip, Wing, Symmetrical	A	26-0423008-3-80A <b>T</b>
Tray, Shoulder Harness	D	20-14 <b>7 T</b>

**1** S/N F150-0001 thru F15000523, and  
 S/N FA1500001 thru FA1500261 only  
**2** S/N F150-0001 thru F15001428, and  
 S/N FA1500001 thru FA1500336 only  
**3** S/N F150-0220 thru F15001428 only  
**4** S/N F15000530 thru F15001428 only  
**5** S/N F15000530 thru F15001428, and  
 S/N FA1500001 thru FA1500336 only  
**6** S/N F15000659 thru F15001428, and  
 S/N FA1500082 thru FRA1500336 only  
**7** S/N F15001014 thru F15001428 only  
**8** S/N F15001144 thru F15001428, and  
 S/N FA1500262 thru FA1500336 only  
**9** S/N F15001144 thru F15001428, and  
 S/N FA1500262 thru FA1500336, and  
 S/N FRA1500262 thru FRA1500336 only  
**10** This is an ABS plastic part, split for easy installation.  
**11** S/N F150-0390 thru F15000658 and  
 S/N FA1500001 thru FA1500081 only  
**12** S/N F15000530 thru F15000658 and  
 S/N FA1500001 thru FA1500081 only

**152, A152, F152, FA152**  
 S/N 15279406 thru 15286033,  
 A1520735 thru A1521049,  
 F15201429 thru F15201980,  
 FA1520337 thru FA1520425

Description	Idx	Part Number
Cap, Rudder Top	K	26-15-80A <b>T</b> GF0430011-2 <b>7 K</b> SA-0430011-2 <b>S</b>
Cap, Vertical Fin Top 2 1/4" Beacon Base	J	26-12 <b>2 T</b> GF0430011-1 <b>2 K</b> SA-0430011-1 <b>S</b>
Center Console	D	26-23 <b>6 T</b>
Cover, Post, LH	D	26-13L <b>T</b>
Cover, Post, RH	D	26-13R <b>T</b>
Fairing, Brake Cover, LH	H	26-07-LBC <b>1 T</b> SA-0441227-1 <b>S</b>
Fairing, Brake Cover, RH	H	26-07-RBC <b>1 T</b> SA-0441227-2 <b>S</b>
Fairing, Main Landing Gear LH	G	26-06L <b>T</b> SA-0441217-15 <b>S</b>
Fairing, Main Landing Gear RH	G	26-06R <b>T</b> SA-0441217-14 <b>S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01 <b>K</b> SA-0541223-17 <b>S</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	GF0541223-02 <b>K</b> SA-0541223-16 <b>S</b>
Fairing, Nose Wheel (Wheel Pant)	C	20-40N-80A <b>T</b> GF0543079-00 <b>K</b> SA-0543079-3 <b>S</b>
Fairing, Strut to Fuselage, LH	F	150-LFS <b>5 T</b> K0421002-1 <b>1 10 K</b> SA-0421002-1 <b>9 1 S</b> SA-0421002-3 <b>8 S</b>
Fairing, Strut to Fuselage, RH	F	150-RFS <b>5 T</b> K0421002-2 <b>1 10 K</b> SA-0421002-2 <b>9 1 S</b> SA-0421002-4 <b>8 S</b>
Fairing, Strut to Wing, LH	E	150-LWS <b>5 T</b> K0522150-3 <b>4 10 K</b> SA-0522150-3 <b>9 1 S</b> SA-0522150-7 <b>8 S</b>
Fairing, Strut to Wing, RH	E	150-RWS <b>5 T</b> K0522150-4 <b>4 10 K</b> SA-0522150-4 <b>9 1 S</b> SA-0522150-6 <b>8 S</b>
Panel, Interior Seatback	D	26-19 <b>1 T</b>
Tip, Dorsal Fin	I	26-10 <b>1 T</b> SA-0431024-1 <b>1 S</b>
Tip, Elevator, LH or RH	M	26-09 <b>T</b> GF0430004-10791 <b>K</b> SA-0430004-10 <b>1 S</b>
Tip, Horizontal Stab., LH or RH	L	26-08 <b>T</b> GF0430004-11791 <b>K</b> SA-0430004-11 <b>2 S</b>
Tip, Rudder Butt	N	26-11 <b>3 T</b> GF0431005-1-791 <b>K</b> SA-0431005-1 <b>8 S</b>
Tip, Wing, Conical, LH	A	20-51L-80A <b>T</b> GF0523565-29791 <b>K</b> SA-0523565-29 <b>S</b>
Tip, Wing, Conical, RH	A	20-51R-80A <b>T</b> GF0523565-30791 <b>K</b> SA-0523565-30 <b>S</b>
Tip, Wing, Symmetrical	A	26-0423008-3-80A <b>T</b>
Tray, Shoulder Harness	D	20-14 <b>2 T</b>

**1** Model 152 only  
**2** Models 152, A152 only  
**3** Models 152, A152, F152 only  
**4** Models 152 and F152 only  
**5** Models 152, F152, FA152 only  
**6** S/N 15279406 thru 15285594 only  
**7** S/N 15279406 thru 15286033, and  
 S/N F15201429 thru F15201952, and  
 S/N FA1520337 thru FA1520387 only  
**8** S/N A1520735 thru A1521049 only  
**9** Also available as a FAA-PMA/STC approved split fairing  
 for easy installation and removal; add an "SP" suffix to  
 the P/N.  
**10** This is an ABS plastic part, split for easy installation.

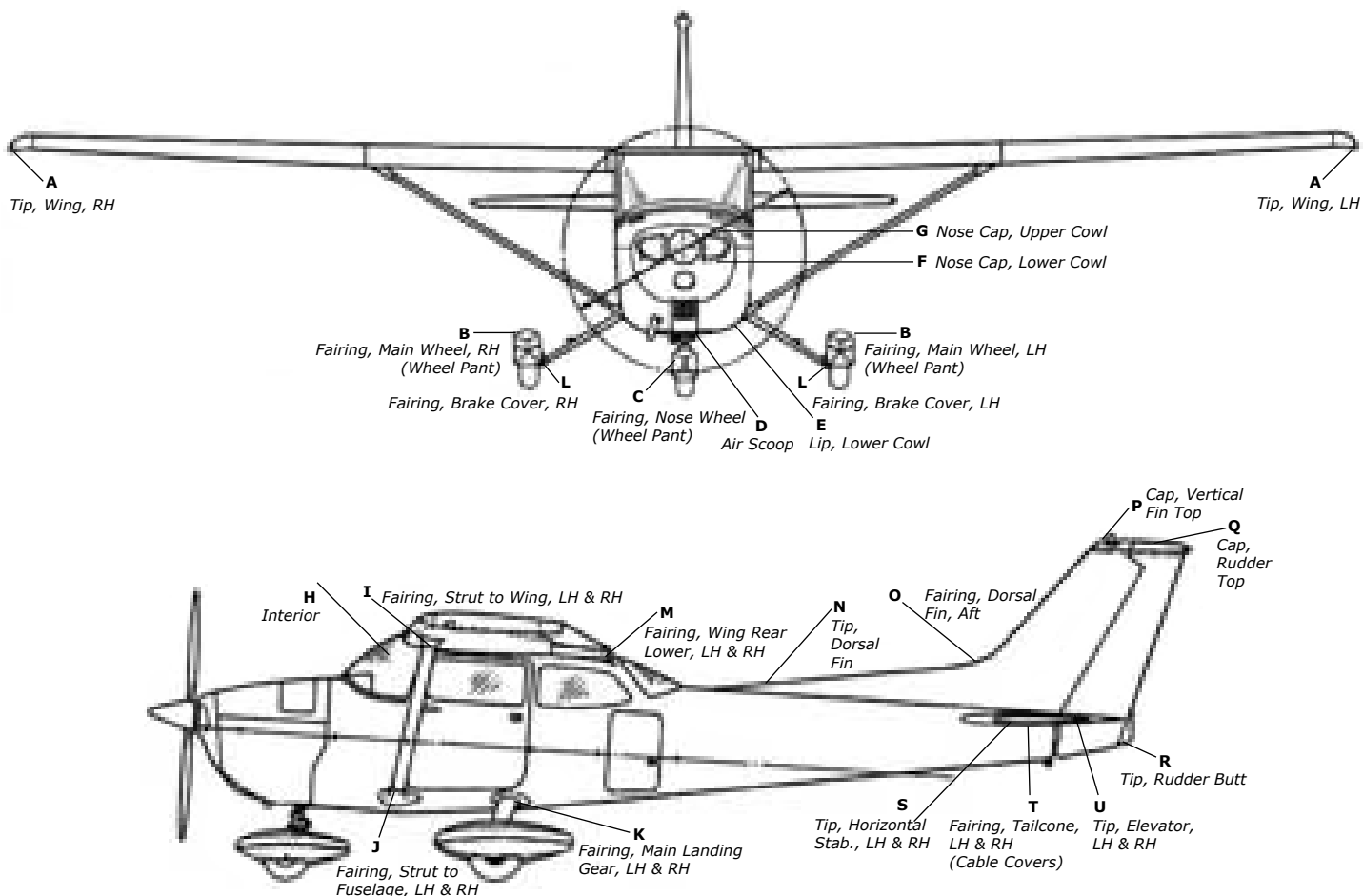
## Cessna 170, 172, 175 and 177 Series Aircraft

**SAVE!!**

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Strut and landing gear fairings, tail surface fairings, wing tips, interior parts, and cowling fairings for Cessna 170-177 series aircraft available in ABS plastic and fiberglass.

Eligibility tables for Cessna 170, 172, 175 and 177 aircraft with item descriptions, index reference and part numbers can be found on the following pages.



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# Cessna 170, 172, 175 and 177 Series Aircraft

172N,P,Q,R,S S/N 17267585 thru 172S9999			Continued from previous column			Continued from previous column		
Description	Idx	Part Number	Description	Idx	Part Number	Description	Idx	Part Number
Arm Rest Support	H	28-01 <b>6 T</b>	1 S/N 17267585 thru 17274009 only			1 S/N 172RG0001 thru 172RG1178 only		
Cap, Rudder Top	Q	28-04-80A <b>4 T</b>	2 S/N 17267585 thru 17275953 only			2 S/N 172RG1179 and on		
		K0533155-2 <b>10 K</b>	3 S/N 17267585 thru 17276260 only			3 Model 172RG only		
		K0531006-112 <b>2 K</b>	4 S/N 17267585 thru 17276654 only			4 Model FR172K only		
		SA-0531006-112 <b>4 S</b>	5 S/N 17267585 and on			5 Model R172K only		
Cap, Vertical Fin 2 1/4" Beacon Base	P	SA-0533155-2 <b>10 S</b>	6 S/N 17274010 thru 17275759 only			6 Model P172D only		
		28-02 <b>1 T</b>	7 S/N 17274010 thru 17276654 only			7 Models 172RG and R172K only		
		GF0531033-1 <b>1 K</b>	8 S/N 17275035 and on			8 Models 172RG and FR172K only		
		SA-0531033-1 <b>10 S</b>	9 S/N 17275954 and on			9 Models 172RG, R172K and P172D only		
Console, Center (without Rudder Trim)	H	SA-0531033-6 <b>7 S</b>	10 S/N 17280001 and on			10 Models 172RG, FR172K and R172K only		
		28-0500233-80A <b>4 T</b>	11 Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N.			11 Models FP172 and P172D only		
Console, Center (with Rudder Trim)	H	280500233RT80A <b>4 T</b>	12R, FP172, FR172E, FR172K, P172D, R172K			12 Models FP172, FR172K, P172 and R172K only		
Cover, Post, LH	H	28-13L <b>8 T</b>	S/N 172RG0001 thru 172RG1191			13 Models 172RG, FP172, R172K and P172D only		
Cover, Post, RH	H	28-12R <b>8 T</b>	S/N FP172-0001 thru FP172-0003			14 Models P172D, FP172, FR172E only		
Fairing, Brake Cover, LH	L	28-08-LBC <b>1 T</b>	S/N FR172-0001 thru FR172-0060			15 Models R172K and 172RG S/N 172RG0001 thru 172RG1134		
		SA-0541224-1 <b>5 S</b>	S/N FR17200591 thru FR17200675			16 Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N.		
Fairing, Brake Cover, RH	L	28-08-RBC <b>1 T</b>	S/N P17257120 thru P17257188					
		SA-0541224-2 <b>5 S</b>	S/N R1722000 thru R1723454					
Fairing, Dorsal Fin, Aft	O	K0531012-2 <b>1 K</b>	<b>Description</b>			<b>F172D, E, F, G, H, K, L, M, N, P</b>		
		SA-0531012-2 <b>5 S</b>	<b>Idx</b>			<b>S/N F172-0001 thru F17202254</b>		
Fairing, Landing Gear, LH	K	28-05-LGF <b>4 T</b>	28-04-80A <b>3 T</b>	Q	K0531006-34 <b>15 K</b>	Cap, Rudder Top	Q	28-04-80A <b>14 T</b>
		SA-1741005-239 <b>4 S</b>	K0531006-112 <b>16 K</b>		2805310063480A <b>1 T</b>			
Fairing, Landing Gear, RH	K	SA-1741005-59 <b>10 S</b>	SA-0531006-112 <b>7 S</b>	P	SA-0531003-1 <b>7 S</b>	Cap, Vertical Fin No Beacon Base	P	28-19-80A <b>11 T</b>
		28-05-RGF <b>4 T</b>	SA-0541224-1 <b>5 S</b>		SA-0531006-34 <b>1 K</b>			
Fairing, Landing Gear, RH	K	SA-1741005-240 <b>4 S</b>	SA-0541224-2 <b>5 S</b>	L	K0531012-2 <b>7 K</b>	Cap, Vertical Fin 2 1/4" Beacon Base	P	K0531006-112 <b>14 K</b>
		SA-1741005-60 <b>10 S</b>	SA-0541224-1 <b>5 S</b>		SA-0531012-2 <b>7 S</b>			28-0531109-180A <b>8 T</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01 <b>1 K</b>	SA-1741005-239 <b>5 S</b>	K	SA-1741005-239 <b>5 S</b>	Fairing, Dorsal Fin, Aft	O	28-24-80A <b>10 T</b>
		SA-0541223-17 <b>5 S</b>	SA-1741005-240 <b>5 S</b>		SA-0541223-02 <b>5 K</b>			GF0531033-1 <b>15 K</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	GF0541223-02 <b>1 K</b>	SA-0541223-16 <b>5 S</b>	B	GF0541223-01 <b>5 K</b>	Fairing, Landing Gear, LH	K	GF0541223-01 <b>13 K</b>
		SA-0541223-16 <b>5 S</b>	GF0541223-17 <b>5 S</b>		SA-0541223-02 <b>5 K</b>			GF0541223-02 <b>13 K</b>
Fairing, Nose Wheel	C	20-40N-80A <b>1 T</b>	GF0541223-16 <b>5 S</b>	B	GF0541223-02 <b>5 K</b>	Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>16 K</b>
		GF0543079-00 <b>1 K</b>	SA-0541223-16 <b>5 S</b>		SA-0541223-16 <b>5 S</b>			K0741046-202 <b>16 K</b>
Fairing, Strut To Fuslg, LH	J	28-07-LFS <b>1 T</b>	SA-0543079-3 <b>5 S</b>	C	GF0543079-00 <b>5 K</b>	Fairing, Main Wheel, RH (Wheel Pant)	B	20-40N-80A <b>13 T</b>
		K0522150-1 <b>1 K</b>	SA-0543079-3 <b>5 S</b>		SA-0543079-3 <b>5 S</b>			GF0543079-00 <b>13 K</b>
Fairing, Strut To Fuslg, RH	J	SA-0522150-1 <b>11 S</b>	28-07-RFS <b>1 T</b>	J	K0522150-1 <b>14 K</b>	Fairing, Nose Wheel	C	K0522150-1 <b>13 K</b>
		K0522150-2 <b>11 S</b>	K0522150-1 <b>14 K</b>		SA-0522150-1 <b>9 T 17 S</b>			SA-0522150-2 <b>9 T 17 S</b>
Fairing, Strut To Wing, LH	I	28-07-LWS <b>1 T</b>	SA-0522150-2 <b>11 S</b>	J	SA-0522150-2 <b>14 K</b>	Fairing, Landing Gear, LH	K	GF0541223-01 <b>13 K</b>
		SA-0523047-1 <b>11 S</b>	SA-0522150-2 <b>11 S</b>		SA-0522150-3 <b>11 K</b>			GF0541223-02 <b>13 K</b>
Fairing, Strut To Wing, RH	I	28-07-RWS <b>1 T</b>	SA-0523047-2 <b>11 S</b>	I	SA-0523047-1 <b>7 S</b>	Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>16 K</b>
		SA-0523047-2 <b>11 S</b>	SA-0522150-3 <b>6 S</b>		SA-0522150-4 <b>11 K</b>			K0741046-202 <b>16 K</b>
Fairing, Tailcone (Cable Covers) LH or RH	T	28-18 <b>5 T</b>	SA-0523047-2 <b>11 S</b>	I	SA-0522150-4 <b>11 K</b>	Fairing, Nose Wheel	C	20-40N-80A <b>13 T</b>
		SA-0530011-2 <b>5 S</b>	SA-0523047-2 <b>11 S</b>		SA-0522150-4 <b>6 S</b>			GF0543079-00 <b>13 K</b>
Fairing Wing Rear Low, LH	M	GF0520006-01 <b>4 K</b>	SA-0523047-2 <b>11 S</b>	I	SA-0522150-4 <b>11 K</b>	Fairing Wing Rear Low, LH	M	K0522150-1 <b>1 K</b>
		GF0520006-02 <b>4 K</b>	SA-0523047-2 <b>11 S</b>		SA-0523047-2 <b>7 S</b>			K0522150-2 <b>1 K</b>
Fairing Wing Rear Low, RH	M	28-16 <b>3 T</b>	SA-0523047-2 <b>11 S</b>	I	SA-0522150-4 <b>6 S</b>	Fairing, Strut To Wing, LH	I	K0522150-3 <b>3 K</b>
		SA-0531020-1 <b>5 S</b>	SA-0523047-2 <b>11 S</b>		SA-0522150-4 <b>6 S</b>			K0522150-4 <b>3 K</b>
Tip, Dorsal Fin	N	28-09-L <b>1 T</b>	SA-0531020-1 <b>5 S</b>	I	SA-0522150-4 <b>6 S</b>	Fairing, Tailcone, (Cable Covers) LH or RH	T	28-18 <b>1 T</b>
		GF0532001-94 <b>12 K</b>	SA-0531020-1 <b>5 S</b>		SA-0522150-4 <b>6 S</b>			27-32-03L <b>4 T</b>
Tip, Elevator, LH	U	SA-0532001-94 <b>5 S</b>	28-09-R <b>1 T</b>	U	SA-0532001-94 <b>9 S</b>	Panel, Door, LH	H	30-0715064-380A <b>4 T</b>
		GF0532001-94 <b>12 K</b>	GF0532001-100 <b>12 K</b>		SA-0532001-94 <b>9 S</b>			27-32-03R <b>4 T</b>
Tip, Elevator, RH	U	SA-0532001-94 <b>5 S</b>	GF0532001-100 <b>12 K</b>	U	SA-0532001-100 <b>9 S</b>	Panel, Door, RH	H	30-0715064-480A <b>4 T</b>
		GF0532001-100 <b>12 K</b>	SA-0532001-100 <b>9 S</b>		GF0532001-94 <b>12 K</b>			28-15 <b>7 T</b>
Tip, Rudder Butt	R	28-11 <b>9 T</b>	SA-0532001-100 <b>9 S</b>	U	GF0532001-100 <b>12 K</b>	Tip, Dorsal Fin	N	28-15 <b>7 T</b>
		28-12 <b>2 T</b>	GF053100680791 <b>10 K</b>		GF0532001-100 <b>12 K</b>			28-15 <b>7 T</b>
		GF053100680791 <b>2 K</b>	K0531006-35 <b>11 K</b>		GF053100680791 <b>10 K</b>			GF0532001-94 <b>12 K</b>
		K0533155-1 <b>10 K</b>	SA-0531006-80 <b>7 S</b>		SA-0531006-80 <b>7 S</b>			GF0532001-100 <b>12 K</b>
Tip, Rudder Butt	R	SA-0531006-80 <b>4 S</b>	SA-0531006-80 <b>7 S</b>	U	GF0532001-100 <b>12 K</b>	Tip, Elevator, LH	U	GF0532001-94 <b>12 K</b>
		SA-0533155-1 <b>10 S</b>	GF0532001-00 <b>12 K</b>		GF0532001-100 <b>12 K</b>			GF0532001-94 <b>12 K</b>
		28-10 <b>9 T</b>	SA-0532001-93 <b>5 S</b>		SA-0532001-00 <b>12 K</b>			GF0532001-100 <b>12 K</b>
		GF0532001-00 <b>9 K</b>	SA-0532001-93 <b>7 S</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
Tip, Horiz. Stab., LH or RH	S	SA-0532001-93 <b>5 S</b>	20-52L-80A <b>10 T</b>	R	SA-0532001-93 <b>7 S</b>	Tip, Elevator, RH	U	GF0532001-94 <b>12 K</b>
		GF053100680791 <b>2 K</b>	GF0723200-5 <b>1 S 5 K</b>		SA-0532001-00 <b>12 K</b>			GF0532001-100 <b>12 K</b>
		K0533155-1 <b>10 K</b>	SA-0723200-5 <b>7 S</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
		SA-0531006-80 <b>4 S</b>	20-52R-80A <b>10 T</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
Tip, Wing, LH	A	SA-0533155-1 <b>10 S</b>	GF0723200-5 <b>1 S 5 K</b>	S	SA-0532001-93 <b>7 S</b>	Tip, Rudder Butt	R	GF0532001-100 <b>12 K</b>
		28-10 <b>9 T</b>	SA-0723200-5 <b>7 S</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
		GF0532001-00 <b>9 K</b>	20-52R-80A <b>10 T</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
		SA-0532001-93 <b>5 S</b>	GF0723200-6 <b>1 S 5 K</b>		SA-0532001-93 <b>7 S</b>			GF0532001-100 <b>12 K</b>
Tip, Wing, RH	A	20-52L-80A <b>10 T</b>	SA-0723200-5 <b>7 S</b>	S	SA-0532001-93 <b>7 S</b>	Tip, Horiz. Stab., LH or RH	S	GF0532001-00 <b>12 K</b>
		GF0723200-5 <b>5 K</b>	20-52R-80A <b>10 T</b>		SA-0532001-93 <b>7 S</b>			GF0532001-00 <b>12 K</b>
		SA-0723200-5 <b>4 S</b>	GF0723200-6 <b>1 S 5 K</b>		SA-0532001-93 <b>7 S</b>			GF0532001-00 <b>12 K</b>
		SA-0723205-1 <b>10 S</b>	SA-0723200-6 <b>4 S</b>		SA-0532001-93 <b>7 S</b>			GF0532001-00 <b>12 K</b>
Tip, Wing, RH	A	20-52R-80A <b>10 T</b>	SA-0723205-1 <b>10 S</b>	S	SA-0532001-93 <b>7 S</b>	Tip, Wing, LH	A	20-51L-80A <b>9 T</b>
		GF0723200-6 <b>5 K</b>	20-52R-80A <b>10 T</b>		SA-0532001-93 <b>7 S</b>			20-52L-80A <b>13 T</b>
		SA-0723200-6 <b>4 S</b>	GF0723200-6 <b>4 S</b>		SA-0532001-93 <b>7 S</b>			20-51R-80A <b>9 T</b>
		SA-0723205-2 <b>10 S</b>	SA-0723205-2 <b>10 S</b>		SA-0532001-93 <b>7 S</b>			20-52R-80A <b>13 T</b>
Tray, Shoulder Harness	H	20-14 <b>1 T</b>	SA-0723205-2 <b>10 S</b>	A	SA-0723200-6 <b>4 S</b>	Tip, Wing, RH	A	20-52R-80A <b>13 T</b>
		20-14 <b>1 T</b>	SA-0723205-2 <b>10 S</b>		SA-0723200-6 <b>4 S</b>			K0723615-200 <b>2 K</b>
<b>Eligibility continues in next column</b>			<b>Eligibility continues in next column</b>			<b>Eligibility continues in next column</b>		
1 Fiberglass Parts Manufactured By Knots 2U			5 Fiberglass Parts Manufactured By Stene Aviation			T ABS Plastic Parts Manufactured By Texas Aeroplastics		

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FAA-PMA Approved

## Cessna 170, 172, 175 and 177 Series Aircraft

175, 175A,B,C S/N 55001 thru 17557119				177, 177A,B, 177RG, F177RG S/N 17700001 thru 17702752 S/N 177RG0001 thru 177RG1366 S/N F177RG0001 thru F177RG0177			
Description	Idx	Part Number		Description	Idx	Part Number	
Cap, Rudder Top	Q	SA-0531006-34	5 S	Cap, Rudder Top	Q	K1733009-2	K
Cap, Vertical Fin No Beacon Base	P	SA-0531001-36	1 S	Cap, Rudder Top		SA-1733009-2	6 S
		SA-0531006-33	5 S	Cap, Vertical Fin	P	SA-1731009-4	6 S
Cap, Vertical Fin 3 1/2" Beacon Base	P	SA-0531004-3	1 S	Cap, Vertical Fin		K1731009-4	6 K
Fairing, Strut To Fuslg, LH	J	28-07-LFS	3 T	Fairing, Brake, LH	L	SA-0741634-13	2 S
		K0522150-1	3 K			SA-1741027-1	4 S
		SA-0522150-1	6 S	Fairing, Brake, RH	L	SA-0741634-14	2 S
Fairing, Strut To Fuslg, RH	J	28-07-RFS	3 T			SA-1741027-2	4 S
		K0522150-2	3 K	Fairing, Landing Gear, LH	K	SA-1741005-43	5 S
		SA-0522150-2	6 S	Fairing, Landing Gear, RH	K	SA-1741005-44	5 S
Fairing, Strut To Wing, LH	I	28-06-LWS	3 T	Fairing, Main Wheel, LH (Wheel Pant)	B	GF0541223-01	4 K
		K0522150-3	3 K			K0741046-203	5 K
		SA-0522150-3	6 S	Fairing, Main Wheel, RH (Wheel Pant)	B	SA-0541203-1	3 S
Fairing, Strut To Wing, RH	I	28-06-RWS	3 T			GF0541223-02	4 K
		K0522150-4	3 K	Fairing, Nose Wheel	C	K0741046-202	5 K
		SA-0522150-4	6 S			SA-0541203-2	3 S
Panel, Door, LH	H	27-32-03L	T			20-40N-80A	3 T
		30-0715064-380A	T	Tip, Horiz. Stab., LH or RH	S	GF1732024-1-791	K
Panel, Door, RH	H	27-32-03R	T			SA-1732024-1	6 S
		30-0715064-480A	T	Tip, Wing, LH	A	GF1723005-11	8 K
Tip, Elevator, LH or RH	U	K0532001-62	4 K			SA-1723000-201	1 S
		SA-0532001-62	4 S	Tip, Wing, RH	A	SA-1723005-11	7 S
Tip, Rudder Butt	R	28-21-80A	5 T			GF1723005-12	8 K
		SA-0531104	1 S	Tip, Wing, LH	A	SA-1723000-200	1 S
Tip, Horiz. Stab., LH or RH	S	SA-0531006-35	5 S			SA-1723005-12	7 S
		K0532001-61	5 K			SA-1723005-12	8 K
		SA-0532001-61	5 S			SA-1723000-200	1 S
Tip, Wing, Conical, LH	A	SA-0523565-29	S			SA-1723005-12	7 S
Tip, Wing, Conical, RH	A	SA-0523565-30	S				
Tip, Wing, Sym., LH or RH	A	K0723615-200	K				
		SA-0723615-200	S				

1 S/N 55001 thru 56238 only  
 2 S/N 55001 thru 17557002 only  
 3 S/N 56025 and on  
 4 S/N 56239 thru 17557064 only  
 5 S/N 56239 and on  
 6 Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N.

1 Model 177, 177A S/N 17700001 thru 17701370 only  
 2 Model 177B, S/N 17701371 thru 17702123 only  
 3 Model 177B S/N 17701371 and on  
 4 Model 177B S/N 17702124 and on  
 5 Model 177,177A,B only  
 6 Model 177, 177A,B and 177RG only  
 7 Model 177B and 177RG only  
 8 Model 177B, 177RG and F177RG

**K** Fiberglass Parts Manufactured By Knots 2U

**S** Fiberglass Parts Manufactured By Stene Aviation

**T** ABS Plastic Parts Manufactured By Texas AeroPlastics

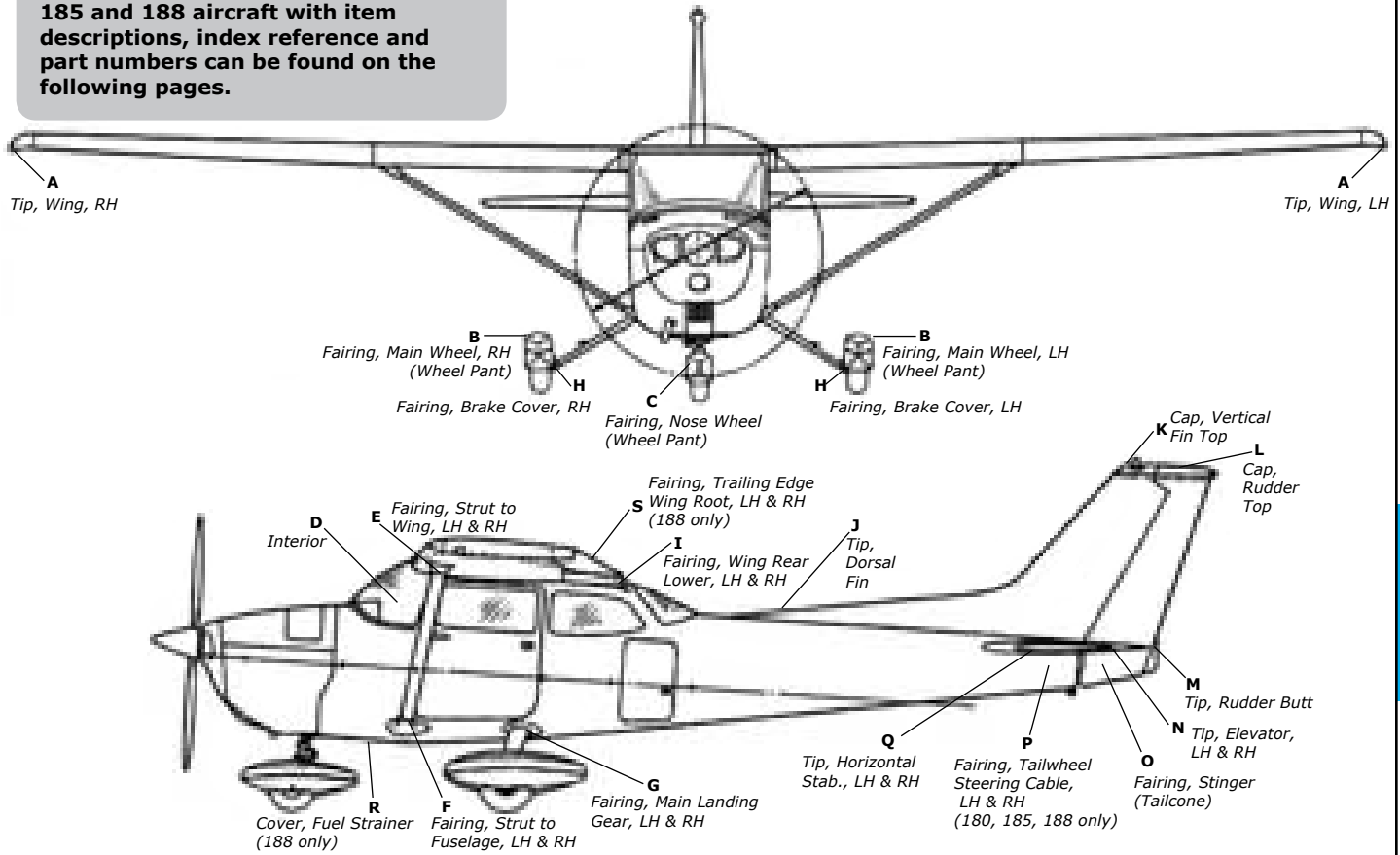
Kits available for 170, 172, 175 and 177 aircraft			
Kit P/N	Kit Description	Part Number	Item Description
20-01-80A	Door Panel Kit, Universal Fit	27-32-03L	Panel, Door LH
		27-32-03R	Panel, Door RH
28-05-80A	Landing Gear Fairing Kit	28-05-LGF	Fairing, Landing Gear, LH
		28-05-RGF	Fairing, Landing Gear, RH
28-06-80A	Strut Fairing Kit, Plastic	28-07-LFS	Fairing, Strut To Fuselage, LH
		28-07-RFS	Fairing, Strut To Fuselage, RH
		28-06-LWS	Fairing, Strut To Wing, LH
		28-06-RWS	Fairing, Strut To Wing, RH
28-07-80A	Strut Fairing Kit, Plastic	28-07-LFS	Fairing, Strut To Fuselage, LH
		28-07-RFS	Fairing, Strut To Fuselage, RH
		28-07-LWS	Fairing, Strut To Wing, LH
		28-07-RWS	Fairing, Strut To Wing, RH
28-08-80A	Brake Cover Fairing Kit	28-08-LBC	Fairing, Brake Cover, LH
		28-08-RBC	Fairing, Brake Cover, RH
28-13-80A	Post Cover Kit, Interior	28-13L	Cover, Post, LH
		28-13R	Cover, Post, RH
30-0715064-80A	Door Panel Kit	30-0715064-3-80A	Panel, Door LH
		30-0715064-4-80A	Panel, Door RH
KPS03	Split Strut Fairing Kit, Plastic	K0522150-1	Fairing, Strut to Fuselage, LH
		K0522150-2	Fairing, Strut to Fuselage, RH
		K0522150-3	Fairing, Strut to Wing, LH
		K0522150-4	Fairing, Strut to Wing, RH
SA-0522150-3412 SP	Split Strut Fairing Kit, Fiberglass	SA-0522150-1SP	Fairing, Strut to Fuselage, LH
		SA-0522150-2SP	Fairing, Strut to Fuselage, RH
		SA-0522150-3SP	Fairing, Strut to Wing, LH
		SA-0522150-4SP	Fairing, Strut to Wing, RH
SA-0523047-1212 SP	Split Strut Fairing Kit, Fiberglass	SA-0522150-1SP	Fairing, Strut to Fuselage, LH
		SA-0522150-2SP	Fairing, Strut to Fuselage, RH
		SA-0523047-1SP	Fairing, Strut to Wing, LH
		SA-0523047-2SP	Fairing, Strut to Wing, RH



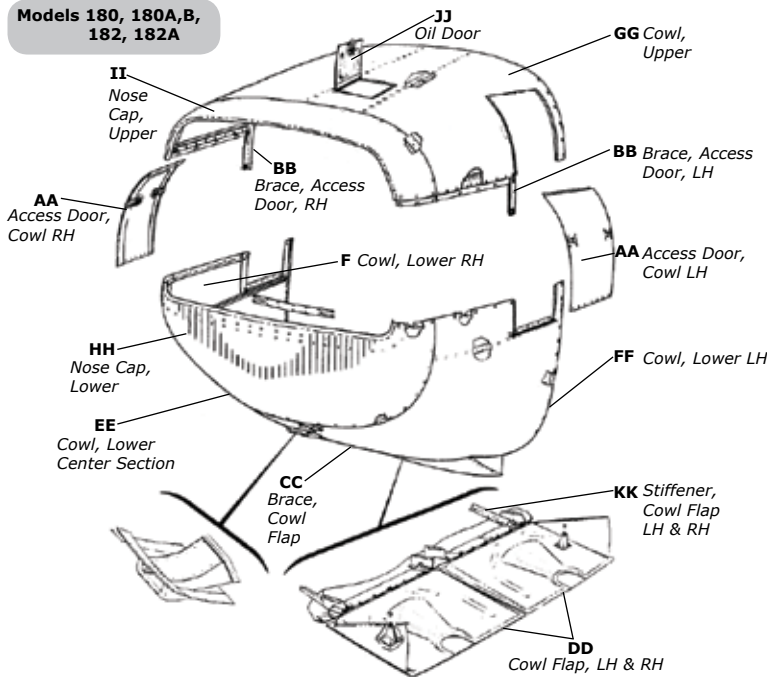
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**Cessna 180, 182, 185 and 188 Series Aircraft**

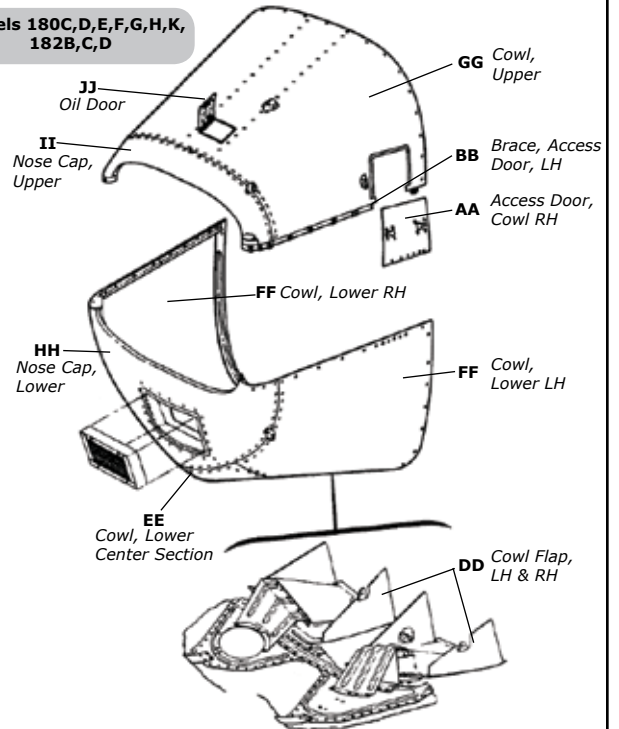
Eligibility tables for Cessna 180, 182, 185 and 188 aircraft with item descriptions, index reference and part numbers can be found on the following pages.



**Models 180, 180A,B, 182, 182A**



**Models 180C,D,E,F,G,H,K, 182B,C,D**



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**S** Fiberglass Parts Manufactured By Stene Aviation

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## Cessna 180, 182, 185 and 188 Series Aircraft

180, 180A,B,C,D,E,F,G,H,J,K S/N 30000 thru 18053203			Continued from previous column			Continued from previous column		
Description	Idx	Part Number	Description	Idx	Part Number	Description	Idx	Part Number
Access Door, Cowl LH	AA	SC180701-1 <b>2 K</b> SC180703-1 <b>12 K</b> SC180704-1 <b>21 K</b>	Tip, Horiz. Stab., LH or RH	Q	31-11 <b>6 T</b> SA-0732613-1 <b>5 S</b>	Cowl, Upper	GG	SC180200-1 <b>1 K</b> SC180201-1 <b>7 K</b> SC180202-1 <b>11 K</b>
Access Door, Cowl RH	AA	SC180702-1 <b>2 K</b>	Tip, Wing, LH	A	20-51L-80A <b>19 T</b> 20-52L-80A <b>23 T</b> GF0723200-5 <b>23 K</b> SA-0723200-5 <b>23 S</b>	Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>15 K</b> SA-0541203-1 <b>18 S</b>
Brace Access Door, LH	BB	SC180900-1 <b>2 K</b>	Tip, Wing, RH	A	20-51R-80A <b>19 T</b> 20-52R-80A <b>23 T</b> GF0723200-6 <b>23 K</b> SA-0723200-6 <b>23 S</b>	Fairing, Main Wheel, RH (Wheel Pant)	B	K0741046-202 <b>15 K</b> SA-0541203-2 <b>18 S</b>
Brace Access Door, RH	BB	SC180900-2 <b>2 K</b>	Tip, Wing, Conical, LH	A	GF0523565-29791 <b>22 K</b> SA-0523565-29 <b>22 S</b>	Fairing, Nose Wheel	C	K0743625-14 <b>15 K</b> SA-0543065-1 <b>18 S</b>
Brace, Cowl Flap	CC	SC180901-2 <b>2 K</b>	Tip, Wing, Conical, RH	A	GF0523565-30791 <b>22 K</b> SA-0523565-30 <b>22 S</b>	Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>17 K</b> SA-1212010-15 <b>5 S</b>
Cap, Vertical Fin No Beacon Base	K	SA-0731000-200 <b>17 S</b>	Tip, Wing, Sym., LH or RH	A	K0723615-200 <b>4 K</b> SA-0723615-200 <b>5 S</b>			182-LFS <b>T</b> K0723612-3 <b>13 K</b> SA-0720702-9 <b>13 S</b> SA-0723605-1 <b>3 20 S</b> SA-0723612-3 <b>13 20 S</b>
Cap, Vertical Fin 2 1/4" Beacon Base	K	SA-0731019-1 <b>20 S</b> SA-0731019-2 <b>26 S</b>				Fairing, Strut To Fuslg, LH	F	182-RFS <b>T</b> K0723612-4 <b>13 K</b> SA-0720702-10 <b>13 S</b> SA-0723605-2 <b>3 20 S</b> SA-0723612-4 <b>13 20 S</b>
Cap, Vertical Fin 3 1/2" Beacon Base	K	SA-0700031-2 <b>5 S</b>				Fairing, Strut To Wing, LH	E	180-LWS <b>T</b> K0723605-3 <b>9 K</b> SA-0720702-1 <b>5 S</b> SA-0723605-3 <b>20 S</b>
Cowl Flap, LH	DD	SC180804-1 <b>13 K</b>				Fairing, Strut To Wing, RH	E	180-RWS <b>T</b> K0723605-4 <b>9 K</b> SA-0720702-2 <b>5 S</b> SA-0723605-4 <b>20 S</b>
Cowl Flap, RH	DD	SC180805-1 <b>13 K</b>				Nose Cap, Lower (Camloc Air Filter)	HH	SC180604-1 <b>11 K</b>
Cowl Flap, LH Exhst Cutout	DD	SC180800-1 <b>1 K</b> SC180802-1 <b>8 K</b>				Nose Cap, Lower (Screws)	HH	SC180602-1 <b>1 K</b>
Cowl Flap, RH Exhst Cutout	DD	SC180801-1 <b>1 K</b> SC180803-1 <b>8 K</b>				Nose Cap, Lower (Screws Air Filter)	HH	SC180603-1 <b>7 K</b>
Cowl, Lower Center Section	EE	SC180501-1 <b>1 K</b> SC180502-1 <b>8 K</b> SC180504-1 <b>11 K</b> SC180505-1 <b>18 K</b>				Nose Cap, Upper	II	SC180302-1 <b>1 K</b> SC180303-1 <b>7 K</b> SC180304-1 <b>11 K</b>
Cowl, Lower Left (Camloc)	FF	SC180405-1 <b>16 K</b>				Oil Door (Aluminum)	JJ	WAC752000 <b>4</b>
Cowl, Lower Left (Screws)	FF	SC180401-1 <b>2 K</b> SC180403-1 <b>10 K</b>				Panel, Door, LH	D	27-32-03L <b>6 T</b> 30-0715064-3-80A <b>6 T</b>
Cowl, Lower Right (Camloc)	FF	SC180406-1 <b>16 K</b>				Panel, Door, RH	D	27-32-03R <b>6 T</b> 30-0715064-4-80A <b>6 T</b>
Cowl, Lower Right (Screws)	FF	SC180402-1 <b>2 K</b> SC180404-1 <b>10 K</b>				Tip, Elevator, LH	N	31-10 LEFT <b>14 T</b> GF1234608-01 <b>14 K</b> SA-1234608-3 <b>14 S</b>
Cowl, Upper	GG	SC180200-1 <b>2 K</b> SC180201-1 <b>10 K</b> SC180202-1 <b>14 K</b> SC180203-1 <b>19 K</b> SC180204-1 <b>21 K</b>				Tip, Elevator, RH	N	31-10 RIGHT <b>14 T</b> GF1234608-02 <b>14 K</b> SA-1234608-4 <b>14 S</b>
Fairing, Brake Cover, LH	H	SA-0741059-1 <b>5 S</b>						31-11 <b>4 T</b> 31-09 <b>T</b>
Fairing, Brake Cover, RH	H	SA-0741059-2 <b>5 S</b>				Tip, Horiz. Stab., LH or RH	Q	SA-0732613-1 <b>2 S</b> GF1232604-1 <b>14 K</b> SA-1232604-1 <b>14 S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	SA-0741070-1 <b>25 S</b>				Tip, Wing, LH	A	20-51L-80A <b>18 T</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	SA-0741070-2 <b>25 S</b>				Tip, Wing, RH	A	20-51R-80A <b>18 T</b>
Fairing, Stinger (Tailcone)	O	SA-0712400-9 <b>5 S</b>				Tip, Wing, Conical, LH	A	GF0523565-29791 <b>19 K</b> SA-0523565-29 <b>5 S</b>
Fairing, Strut To Fuslg, LH	F	180-LFS-T <b>T</b> K0723605-1 <b>9 K</b> SA-0723605-1 <b>27 S</b>				Tip, Wing, Conical, RH	A	GF0523565-30791 <b>19 K</b> SA-0523565-30 <b>5 S</b>
Fairing, Strut To Fuslg, RH	F	180-RFS-T <b>T</b> K0723605-2 <b>9 K</b> SA-0723605-2 <b>27 S</b>				Tip, Wing, Sym., LH or RH	A	K0723615-200 <b>6 K</b> SA-0723615-200 <b>5 S</b>
Fairing, Strut To Wing, LH	E	180-LWS <b>T</b> K0723605-3 <b>9 K</b> SA-0720702-1 <b>5 S</b> SA-0723605-3 <b>27 S</b>						1 S/N 33000 thru 51556 only 2 S/N 33000 thru 52358 only 3 S/N 33000 thru 18253598 only 4 S/N 33000 thru 18255844 only 5 S/N 33000 thru 18259305 only 6 S/N 33000 thru 18260055 only 7 S/N 51557 thru 53007 only 8 S/N 51557 thru 18253598 only 9 S/N 51557 and on 10 S/N 52359 thru 18257625 only 11 S/N 18253008 thru 18253598 only 12 S/N 18253599 thru 18257625 only 13 S/N 18253599 and on 14 S/N 18255845 and on 15 S/N 18257626 thru 18260445 only 16 S/N 18257626 and on 17 S/N 18258686 and on 18 S/N 18260056 thru 18260825 only 19 S/N 18260446 thru 18260825 only 20 Also available as a FAA-PMA/STC approved split fairing for easy install & removal; add "SP" suffix to the P/N.
Fairing, Strut To Wing, RH	E	180-RWS <b>T</b> K0723605-4 <b>9 K</b> SA-0720702-2 <b>5 S</b> SA-0723605-4 <b>27 S</b>						
Fairing, Tailwhl Strg Cbl LH	P	SA-0712309-9 <b>5 S</b>						
Fairing, Tailwhl Strg Cbl RH	P	SA-0712309-10 <b>5 S</b>						
Nose Cap, Lower (Camloc Air Filter)	HH	SC180604-1 <b>13 K</b> SC180605-1 <b>19 K</b>						
Nose Cap, Lower (Camloc Landing Light)	HH	SC180606-1 <b>24 K</b>						
Nose Cap, Lower (Screws)	HH	SC180601-1 <b>1 K</b> SC180602-1 <b>8 K</b>						
Nose Cap, Lower (Screws Air Filter)	HH	SC180603-1 <b>10 K</b>						
Nose Cap, Upper	II	SC180301-1 <b>1 K</b> SC180302-1 <b>8 K</b> SC180303-1 <b>10 K</b> SC180304-1 <b>15 K</b> SC180305-1 <b>21 K</b>						
Oil Door	JJ	SC180752-1 <b>21 K</b> WAC752000 <b>3 28</b>						
Panel, Door, LH	D	27-32-03L <b>7 T</b> 30-0715064-3-80A <b>7 T</b>						
Panel, Door, RH	D	27-32-03R <b>7 T</b> 30-0715064-4-80A <b>7 T</b>						
Stiffener, Cowl Flap LH	KK	SC180900-3 <b>2 K</b>						
Stiffener, Cowl Flap RH	KK	SC180900-4 <b>2 K</b>						

Eligibility continues in next column      Eligibility continues in next column  
**K** Fiberglass Parts Manufactured By Knots 2U      **S** Fiberglass Parts Manufactured By Stene Aviation      **T** ABS Plastic Parts Manufactured By Texas Aeroplastics



**Cessna 180, 182, 185 and 188 Series Aircraft**

Continued from previous page			
Description	Idx	Part Number	
Fairing, Main Wheel, RH (Wheel Pant)	B	SA-0741070-2	8 S
Fairing, Stinger (Tailcone)	O	SA-0712400-9	S
Fairing, Strut To Fuslg, LH	F	180-LFS-T	4 T
		SA-0723605-1	1 S
		SA-1227002-3SP	10 S
Fairing, Strut To Fuslg, RH	F	180-RFS-T	4 T
		SA-0723605-2	1 S
		SA-1227002-2SP	10 S
Fairing, Strut To Wing, LH	E	180-LWS	T
		SA-0723605-3	1 S
		SA-1227002-11SP	10 S
Fairing, Strut To Wing, RH	E	180-RWS	T
		SA-0723605-4	1 S
		SA-1227002-10SP	10 S
Fairing, Tailwhl Strg Cbl LH	P	SA-0712309-9	S
Fairing, Tailwhl Strg Cbl RH	P	SA-0712309-10	S
Panel, Door, LH	D	27-32-03L	T
		Built in arm rest	T
		30-0715064-3-80A	T
Panel, Door, RH	D	27-32-03R	T
		Built in arm rest	T
		30-0715064-4-80A	T
Tip, Horiz. Stab., LH or RH	Q	SA-0732613-3	S
Tip, Wing, LH	A	20-51L-80A	5 T
		20-52L-80A	8 T
		GF0723200-5	K
		SA-0723200-5	8 S
Tip, Wing, RH	A	20-51R-80A	5 T
		20-52R-80A	8 T
		GF0723200-6	K
		SA-0723200-6	8 S
Tip, Wing, Conical, LH	A	GF0523565-29791	6 K
		SA-0523565-29	6 S
Tip, Wing, Conical, RH	A	GF0523565-30791	6 K
		SA-0523565-30	6 S
Tip, Wing, Sym., LH or RH	A	K0723615-200	3 K
		SA-0723615-200	3 S
<b>1</b> S/N 185-0001 thru 185-0237 only <b>2</b> S/N 185-0001 thru 185-0967 only <b>3</b> S/N 185-0001 thru 185-1149 only <b>4</b> S/N 185-0001 thru 18502310 only <b>5</b> S/N 185-0968 thru 18502090 only <b>6</b> S/N 18501833 thru 18502090 only <b>7</b> S/N 18502091 thru 18502310 only <b>8</b> S/N 18502091 thru 18504448 only <b>9</b> S/N 18502311 thru 18504448 only <b>10</b> FAA-PMA/STC approved split fairing for easy installation and removal.			
<b>188, 188A,B, A188, A188A,B, T188C</b> S/N 188-0001 thru 18803973			
Description	Idx	Part Number	
Cover, Fuel Strainer	R	SA-1616036-1	1 S
Fairing, Gear Leg, LH	G	SA-1621410-7	2 S
		SA-1613420-11	4 S
		SA-1613220-23	3 S
Fairing, Gear Leg, RH	G	SA-1621410-8	2 S
		SA-1613420-12	4 S
		SA-1613220-24	3 S
Fairing, Stinger (Tailcone)	O	SA-0712400-9	S
Fairing, Strut Upper, LH	F	SA-1613220-11	4 S
		SA-1620024-1	4 S
Fairing, Strut Upper, RH	F	SA-1613220-12	4 S
		SA-1620024-2	4 S
Fairing, TE Wing Root, LH	S	SA-1600011-1	1 S
Fairing, TE Wing Root, RH	S	SA-1600011-2	1 S
Tip, Wing, LH	A	20-52L-80A	T
		SA-0723200-5	S
Tip, Wing, RH	A	20-52R-80A	T
		SA-0723200-6	S
<b>1</b> Model T188C not eligible <b>2</b> Models 188B and A188B only <b>3</b> Models 188A,B and A188A,B only <b>4</b> Models 188, 188A, A188, A188A only			

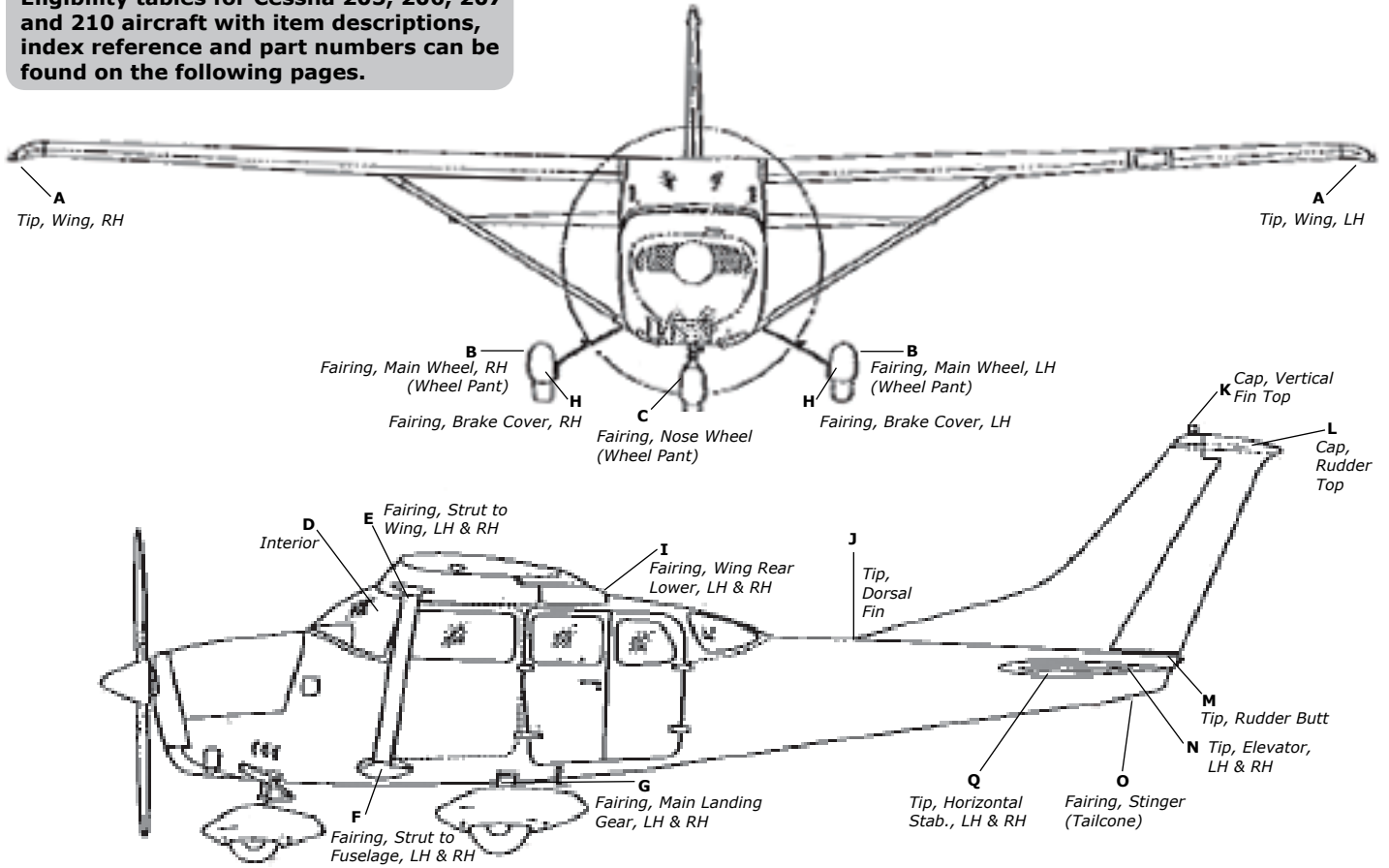
Kits available for 180, 182, 185 and 188 aircraft			
Kit P/N	Kit Description	Part Number	Item Description
20-51-80A	Conical Wing Tip Kit	20-51L-80A	Tip, Wing, LH
		20-51R-80A	Tip, Wing, RH
20-52-80A	Conical Wing Tip Kit	20-52L-80A	Tip, Wing, LH
		20-52R-80A	Tip, Wing, RH
30-04-80A	Wing Strut Fairing Kit	180-LFS-T	Fairing, Strut To Fuselage, LH
		180-RFS-T	Fairing, Strut To Fuselage, RH
		180-LWS	Fairing, Strut to Wing, LH
		180-RWS	Fairing, Strut to Wing, RH
30-0715064-80A	Door Panel Kit	30-0715064-3-80A	Panel, Door LH
		30-0715064-4-80A	Panel, Door RH
31-01-80A	Wing Strut Fairing Kit	182-LFS	Fairing, Strut To Fuselage, LH
		182-RFS	Fairing, Strut To Fuselage, RH
		180-LWS	Fairing, Strut to Wing, LH
		180-RWS	Fairing, Strut to Wing, RH
31-03-80A	Landing Gear Fairing Kit	31-03-LGF	Fairing, Land. Gear Strut, LH
		31-03-RGF	Fairing, Land. Gear Strut, RH
31-07-80A	Brake Cover Fairing Kit	31-07-LBC	Fairing, Brake Cover, LH
		31-07-RBC	Fairing, Brake Cover, RH
31-08-80A	Brake Cover Fairing Kit	31-08-LBC	Fairing, Brake Cover, LH
		31-07-RBC	Fairing, Brake Cover, RH
KPS01	Split Strut Fairing Kit, Plastic	K0723612-3	Fairing, Strut to Fuselage, LH
		K0723612-4	Fairing, Strut to Fuselage, RH
		K0723605-3	Fairing, Strut to Wing, LH
		K0723605-4	Fairing, Strut to Wing, RH
KPS02	Split Strut Fairing Kit, Plastic	K0723605-1	Fairing, Strut to Fuselage, LH
		K0723605-2	Fairing, Strut to Fuselage, RH
		K0723605-3	Fairing, Strut to Wing, LH
		K0723605-4	Fairing, Strut to Wing, RH
SA-0723605-1234 SP	Split Strut Fairing Kit, Fiberglass	SA-0723605-1SP	Fairing, Strut to Fuselage, LH
		SA-0723605-2SP	Fairing, Strut to Fuselage, RH
		SA-0723605-3SP	Fairing, Strut to Wing, LH
SA-0723612-3434 SP	Split Strut Fairing Kit, Fiberglass	SA-0723605-4SP	Fairing, Strut to Wing, RH
		SA-0723612-3SP	Fairing, Strut to Fuselage, LH
		SA-0723612-4SP	Fairing, Strut to Fuselage, RH
		SA-0723605-3SP	Fairing, Strut to Wing, LH
SA-1227002-1145 SP	Split Strut Fairing Kit, Fiberglass	SA-0723605-4SP	Fairing, Strut to Wing, RH
		SA-1227002-3SP	Fairing, Strut to Fuselage, LH
		SA-1227002-2SP	Fairing, Strut to Fuselage, RH
		SA-1227002-11SP	Fairing, Strut to Wing, LH
SA-1227002-10SP	Fiberglass	SA-1227002-10SP	Fairing, Strut to Wing, RH





Cessna 205, 206, 207 and 210 Series Aircraft

Eligibility tables for Cessna 205, 206, 207 and 210 aircraft with item descriptions, index reference and part numbers can be found on the following pages.



210-5 (205), 210-5A (205A) S/N 205-0001 thru 205-0577		
Description	Idx	Part Number
Cap, Rudder Top	L	GF0731606-04 <b>1 K</b> SA-0731606-10 <b>4 K</b> SA-1231001-2 <b>5 S</b>
Cap, Vertical Fin	K	GF0731606-03 <b>1 K</b>
Fairing, Stinger (Tailcone)	O	SA-1212010-14 <b>5 S</b>
Fairing, Strut To Fuslg, LH	F	SA-1227401-5 <b>1 S</b>
Fairing, Strut To Fuslg, RH	F	SA-1227401-4 <b>1 S</b>
Fairing, Strut To Wing, LH	E	SA-1227002-11 <b>1 S</b>
Fairing, Strut To Wing, RH	E	SA-1227002-10 <b>1 S</b>
Tip, Horiz. Stab., LH or RH	Q	SA-0732613-1 <b>5 S</b>
Tip, Wing, LH	A	SA-1223000-7 <b>5 S</b>
Tip, Wing, RH	A	SA-1223000-8 <b>5 S</b>

206, TU206A,B,C,D, U206, U206A,B,C,D S/N 206-0001 thru 206-0275, U206-0276 thru U206-1444		
Description	Idx	Part Number
Cap, Rudder Top	L	GF0731606-04 <b>3 K</b> GF0731606-01 <b>8 K</b> SA-0731606-6 <b>6 S</b> SA-1231001-2 <b>1 S</b>
Cap, Vertical Fin No Beacon Base	K	K0731606-1 <b>6 K</b>
Cap, Vertical Fin Small Beacon Base	K	K0731606-3 <b>6 K</b>
Cap, Vertical Fin 2 1/4" Beacon Base	K	SA-0731606-3 <b>6 S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>8 K</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	K0741046-202 <b>8 K</b>
Fairing, Nose Wheel	C	K0743625-14 <b>12 K</b>
Fairing, Strut To Fuslg, LH	F	SA-1227402-3 <b>11 S</b>

Eligibility continues in next column  
**K** Fiberglass Parts Manufactured By Knots 2U  
**S** Fiberglass Parts Manufactured By Stene Aviation

Continued from previous column		
Description	Idx	Part Number
Fairing, Strut To Fuslg, RH	F	SA-1227402-4 <b>11 S</b>
Fairing, Strut To Wing, LH	E	SA-1227002-11 <b>11 S</b>
Fairing, Strut To Wing, RH	E	SA-1227002-10 <b>11 S</b>
Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>6 K</b> SA-1212010-14 <b>5 S</b>
Tip, Elevator, LH	N	GF1234608-01 <b>2 K</b> K1234640-1 <b>7 K</b> SA-1234608-3 <b>5 S</b> SA-1234640-1 <b>7 S</b>
Tip, Elevator, RH	N	GF1234608-02 <b>2 K</b> K1234640-2 <b>7 K</b> SA-1234608-4 <b>5 S</b> SA-1234640-2 <b>7 S</b>
Tip, Horiz. Stab., LH or RH	Q	GF1232604-1 <b>4 K</b> SA-1232604-1 <b>9 S</b> SA-1232012-1 <b>10 S</b> SA-1232616-1 <b>9 S</b>
Tip, Wing, LH	A	SA-1223000-7 <b>5 S</b>
Tip, Wing, RH	A	SA-1223000-8 <b>5 S</b>

Tip, Horiz. Stab., LH or RH	Q	GF1232604-1 <b>4 K</b> SA-1232604-1 <b>9 S</b> SA-1232012-1 <b>10 S</b> SA-1232616-1 <b>9 S</b>
Tip, Wing, LH	A	SA-1223000-7 <b>5 S</b>
Tip, Wing, RH	A	SA-1223000-8 <b>5 S</b>

Eligibility continues in next column  
**K** Fiberglass Parts Manufactured By Knots 2U  
**S** Fiberglass Parts Manufactured By Stene Aviation

P206, P206A,B,C,D,E, TP206A,B,C,D,E S/N P206-0002 thru P206-0647		
Description	Idx	Part Number
Cap, Rudder Top	L	GF0731606-04 <b>1 K</b> GF0731606-01 <b>4 K</b> SA-0731606-6 <b>4 S</b> SA-1231001-2 <b>1 S</b>
Cap, Vertical Fin No Beacon Base	K	K0731606-1 <b>4 K</b>
Cap, Vertical Fin Small Beacon Base	K	K0731606-3 <b>4 K</b>
Cap, Vertical Fin 2 1/4" Beacon Base	K	SA-0731606-3 <b>4 S</b>
Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>4 K</b>
Fairing, Main Wheel, RH (Wheel Pant)	B	K0741046-202 <b>4 K</b>
Fairing, Nose Wheel	C	K0743625-14 <b>9 K</b>
Fairing, Strut To Fuslg, LH	F	SA-1227402-3 <b>8 S</b>
Fairing, Strut To Fuslg, RH	F	SA-1227402-4 <b>8 S</b>
Fairing, Strut To Wing, LH	E	SA-1227002-11 <b>8 S</b>
Fairing, Strut To Wing, RH	E	SA-1227002-10 <b>8 S</b>
Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>6 K</b> SA-1212010-14 <b>5 S</b>
Tip, Elevator, LH	N	GF1234608-01 <b>2 K</b> K1234640-1 <b>6 K</b> SA-1234608-3 <b>3 S</b> SA-1234640-1 <b>6 S</b>
Tip, Elevator, RH	N	GF1234608-02 <b>2 K</b> K1234640-2 <b>6 K</b> SA-1234608-4 <b>3 S</b> SA-1234640-2 <b>6 S</b>
Tip, Horiz. Stab., LH or RH	Q	GF1232604-1 <b>2 K</b> SA-1232604-1 <b>3 S</b> SA-1232012-1 <b>7 S</b> SA-1232616-1 <b>5 S</b>
Tip, Wing, LH	A	20-51L-80A <b>7 T</b> SA-1223000-7 <b>5 S</b>

Eligibility continues on next page  
**T** ABS Plastic Parts Manufactured By Texas AeroPlastics

Go to [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for more details about specific part numbers.

Order Online at [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) or Call 844-567-5855

**Cessna 205, 206, 207 and 210 Series Aircraft**

Continued from previous page			Continued from previous column			Continued from previous column		
Description	Idx	Part Number	Description	Idx	Part Number	Description	Idx	Part Number
Tip, Wing, RH	A	20-51R-80A <b>7</b> <b>11</b> SA-1223000-8 <b>5</b>	<b>1</b> Models TU206E,U206E only <b>2</b> Models TU206F, U206F only <b>3</b> Models TU206F,G, U206F,G only <b>4</b> Model U206E only <b>5</b> Models U206E,F,G only <b>6</b> Model U206G only <b>7</b> S/N U20601445 thru U20601905 only <b>8</b> S/N U20601445 thru U20603020 only <b>9</b> S/N U20601588 thru U20602199 only <b>10</b> S/N U20601605 thru U20601700 only <b>11</b> S/N U20601701 thru U20603521 only <b>12</b> S/N U20601906 thru U20603020 only <b>13</b> S/N U20602576 and on <b>14</b> S/N U20602580 and on <b>15</b> S/N U20603021 and on <b>16</b> Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N. <b>17</b> S/N U20601445 thru U20601587 only			Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>K</b> SA-1212010-14 <b>5</b>
<b>1</b> Models P206, P206A only <b>2</b> Models P206, P206A,B only <b>3</b> Models P206A,B, TP206A,B only <b>4</b> Models P206B,C,D,E only <b>5</b> Models P206C,D only <b>6</b> Models P206C,D,E, TP206C,D,E only <b>7</b> Models P206D,E, TP206D,E only <b>8</b> Also available as a FAA-PMA/STC approved split fairing for easy installation and removal; add an "SP" suffix to the P/N. <b>9</b> Models P206B,C,D only <b>TU206E,F,G, U206E,F,G</b> S/N U20601445 thru U20607020			<b>206H, T206H</b> S/N 20608001 thru 20699999, T20608001 thru T20699999			Fairing, Strut To Fuslg, LH	F	SA-1227010-1 <b>5</b>
Cap, Rudder Top	L	GF0731606-04 <b>5</b> <b>K</b> GF0731606-01 <b>8</b> <b>K</b> SA-0731606-6 <b>7</b> <b>S</b> SA-0731606-9 <b>15</b> <b>S</b>	<b>Description</b> <b>Idx</b> <b>Part Number</b> Cap, Rudder Top L SA-0731606-9 <b>5</b> Cap, Vertical Fin 2 1/4" Beacon Base K SA-0731606-11 <b>5</b> Cap, Vertical Fin 2 1/2" Beacon Base K K1231064 <b>K</b>			Fairing, Strut To Fuslg, RH	F	SA-1227010-2 <b>5</b>
Cap, Vertical Fin No Beacon Base	K	K0731606-1 <b>8</b> <b>K</b>	Cap, Vertical Fin 2 1/4" Beacon Base K SA-0731606-11 <b>5</b> Cap, Vertical Fin 2 1/2" Beacon Base K K1231064 <b>K</b>			Fairing, Strut To Wing, LH	E	SA-1227011-5 <b>3</b> <b>S</b>
Cap, Vertical Fin Small Beacon Base	K	K0731606-3 <b>8</b> <b>K</b> K1231064 <b>15</b> <b>K</b>	Fairing, Main Gear, LH G GF0541223-01 <b>2</b> <b>K</b> SA-0541223-17 <b>5</b> SA-1241229-1 <b>3</b> <b>S</b>			Fairing, Strut To Wing, RH	E	SA-1227011-6 <b>3</b> <b>S</b>
Cap, Vertical Fin 2 1/4" Beacon Base	K	SA-0731606-3 <b>7</b> <b>S</b> SA-1231064-1 <b>15</b> <b>S</b>	Fairing, Main Gear, RH G GF0541223-02 <b>2</b> <b>K</b> SA-0541223-16 <b>5</b> SA-1241229-2 <b>3</b> <b>S</b>			Tip, Elevator, LH	N	K1234640-1 <b>K</b> SA-1234640-1 <b>9</b> <b>S</b> SA-1234640-2 <b>9</b> <b>S</b>
Cap, Vertical Fin 2 1/2" Beacon Base	K	SA-1231059-1 <b>12</b> <b>S</b>	Fairing, Nose Wheel C SA-0541203-1 <b>9</b> <b>S</b> SA-0541223-17 <b>14</b> <b>S</b> SA-1241229-1 <b>3</b> <b>S</b>			Tip, Elevator, RH	N	GF1232012-1 <b>K</b> SA-1232012-1 <b>9</b> <b>S</b>
Fairing, Brake, LH	H	SA-1241113-1 <b>6</b> <b>S</b> SA-1241232-1 <b>6</b> <b>S</b>	Fairing, Strut To Fuslg, LH F SA-1227010-1 <b>5</b> Fairing, Strut To Fuslg, RH F SA-1227010-2 <b>5</b> Fairing, Strut To Wing, LH E SA-1227005-5 <b>5</b> Fairing, Strut To Wing, RH E SA-1227005-6 <b>5</b>			Tip, Wing, RH	A	SA-1223000-7 <b>1</b> <b>S</b> SA-0523565-29 <b>7</b> <b>S</b>
Fairing, Brake, RH	H	SA-1241113-2 <b>6</b> <b>S</b> SA-1241232-2 <b>6</b> <b>S</b>	Tip, Elevator, LH N K1234640-1 <b>K</b> SA-1234640-3 <b>5</b>			Tip, Wing, Conical, LH	A	GF0523565-29791 <b>7</b> <b>K</b>
Fairing, Main Gear, LH	G	GF0541223-01 <b>14</b> <b>K</b> SA-0541203-1 <b>9</b> <b>S</b> SA-0541223-17 <b>14</b> <b>S</b> SA-1241229-1 <b>3</b> <b>S</b>	Tip, Elevator, RH N K1234640-2 <b>K</b> SA-1234640-4 <b>5</b>			Tip, Wing, Conical, RH	A	GF0523565-30791 <b>7</b> <b>K</b>
Fairing, Main Gear, RH	G	GF0541223-02 <b>14</b> <b>K</b> SA-0541203-2 <b>9</b> <b>S</b> SA-0541223-16 <b>14</b> <b>S</b> SA-1241229-2 <b>3</b> <b>S</b>	Tip, Horiz. Stab., LH or RH Q SA-1232012-1 <b>5</b> GF0723200-5 <b>K</b> SA-0723200-5 <b>1</b> <b>S</b> SA-0723205-1 <b>1</b> <b>S</b>			<b>210, 210A,B,C,D,E,F</b> S/N 57001 thru 21058818		
Fairing, Main Wheel, LH (Wheel Pant)	B	K0741046-203 <b>17</b> <b>K</b>	Tip, Wing, LH A GF0723200-6 <b>K</b> SA-0723200-6 <b>1</b> <b>S</b>			<b>Description</b> <b>Idx</b> <b>Part Number</b> Cap, Rudder Top L GF0731606-04 <b>K</b> Cap, Vertical Fin SA-1231001-2 <b>5</b>		
Fairing, Main Wheel, RH (Wheel Pant)	B	K0741046-202 <b>17</b> <b>K</b>	Tip, Wing, RH A SA-0723200-6 <b>1</b> <b>S</b> SA-0723205-2 <b>5</b>			Cap, Vertical Fin K GF0731606-03 <b>K</b>		
Fairing, Nose Wheel	C	20-40N-80A <b>11</b> <b>11</b> GF0543079-00 <b>14</b> <b>K</b> SA-0543065-1 <b>9</b> <b>S</b> SA-0543079-3 <b>14</b> <b>S</b> SA-1234045-1 <b>3</b> <b>S</b> SA-1227010-1 <b>3</b> <b>S</b> SA-1227402-3 <b>1</b> <b>16</b> <b>S</b>	Fairing, Strut To Wing, LH E SA-1227002-11 <b>1</b> <b>16</b> <b>S</b> SA-1227005-5 <b>13</b> <b>S</b> SA-1227002-10 <b>1</b> <b>16</b> <b>S</b> SA-1227005-6 <b>13</b> <b>S</b>			Fairing, Strut To Fuslg, LH F 34-01-01-LFS <b>1</b> <b>T</b> 34-01-23-LFS <b>4</b> <b>T</b> SA-1227002-3 <b>1</b> <b>S</b> SA-1227401-3 <b>4</b> <b>S</b> SA-1227402-1 <b>5</b> <b>S</b> SA-1227402-3 <b>7</b> <b>S</b>		
Fairing, Strut To Fuslg, LH	F	SA-1227010-2 <b>3</b> <b>S</b> SA-1227402-4 <b>1</b> <b>16</b> <b>S</b>	Fairing, Strut To Wing, RH E SA-1227005-6 <b>13</b> <b>S</b>			Fairing, Strut To Fuslg, RH F 34-01-01-RFS <b>1</b> <b>T</b> 34-01-23-RFS <b>4</b> <b>T</b> SA-1227002-2 <b>1</b> <b>S</b> SA-1227401-2 <b>4</b> <b>S</b> SA-1227402-2 <b>5</b> <b>S</b> SA-1227402-4 <b>7</b> <b>S</b>		
Fairing, Strut To Fuslg, RH	F	SA-1227002-11 <b>1</b> <b>16</b> <b>S</b> SA-1227005-5 <b>13</b> <b>S</b> SA-1227002-10 <b>1</b> <b>16</b> <b>S</b> SA-1227005-6 <b>13</b> <b>S</b>	Fairing, Strut To Wing, LH E GF0723200-6 <b>K</b> SA-0723200-6 <b>1</b> <b>S</b>			Fairing, Strut To Wing, LH E 34-01-05-LWS <b>3</b> <b>T</b> SA-1227002-11 <b>6</b> <b>S</b> SA-1227002-5 <b>2</b> <b>S</b>		
Fairing, Strut To Wing, LH	E	SA-1227002-11 <b>1</b> <b>16</b> <b>S</b> SA-1227005-5 <b>13</b> <b>S</b> SA-1227002-10 <b>1</b> <b>16</b> <b>S</b> SA-1227005-6 <b>13</b> <b>S</b>	<b>1</b> S/N 206-08001 thru 20608361 and T20608001 thru T20608361 only <b>2</b> Model T206H only			Fairing, Strut To Wing, RH E 34-01-05-RWS <b>3</b> <b>T</b> SA-1227002-10 <b>6</b> <b>S</b> SA-1227002-4 <b>2</b> <b>S</b>		
Fairing, Strut To Wing, RH	E	SA-1227002-11 <b>1</b> <b>16</b> <b>S</b> SA-1227005-5 <b>13</b> <b>S</b> SA-1227002-10 <b>1</b> <b>16</b> <b>S</b> SA-1227005-6 <b>13</b> <b>S</b>	<b>207, 207A, T207, T207A</b> S/N 207000001 thru 20700788			Fairing, Stinger (Tailcone)	O	SA-1212010-14 <b>5</b>
Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>K</b> SA-1212010-14 <b>5</b>	<b>Description</b> <b>Idx</b> <b>Part Number</b> Cap, Rudder Top L GF0731606-04 <b>8</b> <b>K</b> GF0731606-01 <b>4</b> <b>K</b> SA-0731606-6 <b>4</b> <b>S</b> SA-0731606-9 <b>8</b> <b>S</b>			Tip, Elevator, LH	N	GF1234608-01 <b>K</b> SA-1234608-3 <b>6</b> <b>S</b>
Tip, Elevator, LH	N	K1234640-1 <b>K</b> SA-1234640-1 <b>5</b>	Cap, Vertical Fin No Beacon Base K K0731606-1 <b>4</b> <b>K</b>			Tip, Elevator, RH	N	GF1234608-02 <b>K</b> SA-1234608-4 <b>6</b> <b>S</b> SA-0732613-1 <b>2</b> <b>S</b>
Tip, Elevator, RH	N	K1234640-2 <b>K</b> SA-1234640-2 <b>5</b>	Cap, Vertical Fin Small Beacon Base K K0731606-3 <b>4</b> <b>K</b> K1231064 <b>8</b> <b>K</b>			Tip, Horiz. Stab., LH or RH	Q	GF1232604-1 <b>6</b> <b>K</b> SA-1232604-1 <b>6</b> <b>S</b>
Tip, Horiz. Stab., LH or RH	Q	GF1232012-1 <b>3</b> <b>K</b> SA-1232012-1 <b>5</b>	Cap, Vertical Fin 2 1/4" Beacon Base K SA-0731606-3 <b>2</b> <b>S</b> SA-1231064-1 <b>8</b> <b>S</b>			Tip, Wing, LH	A	SA-1223000-7 <b>2</b> <b>S</b>
Tip, Wing, LH	A	20-51L-80A <b>4</b> <b>T</b> 20-52L-80A <b>2</b> <b>11</b> GF0723200-5 <b>3</b> <b>K</b> SA-0723200-5 <b>3</b> <b>S</b>	Fairing, Brake, LH H SA-1241228-1 <b>8</b> <b>S</b> Fairing, Brake, RH H SA-1241228-2 <b>8</b> <b>S</b> Fairing, Gear Leg, LH G SA-1241217-1 <b>5</b> Fairing, Gear Leg, RH G SA-1241217-2 <b>5</b> Fairing, Main Gear, LH G GF0541223-01 <b>8</b> <b>K</b> Fairing, Main Gear, RH G GF0541223-02 <b>8</b> <b>K</b>			Tip, Wing, RH	A	SA-1223000-8 <b>2</b> <b>S</b>
Tip, Wing, RH	A	20-51R-80A <b>4</b> <b>11</b> 20-52L-80A <b>2</b> <b>11</b> GF0723200-6 <b>3</b> <b>K</b> SA-0723200-6 <b>3</b> <b>S</b>	Fairing, Nose Wheel C K0743625-14 <b>5</b> <b>K</b> SA-0543079-3 <b>9</b> <b>S</b>			<b>1</b> Models 210, 210A only <b>2</b> Models 210, 210A,B,C only <b>3</b> Models 210, 210A,B,C,D,E only <b>4</b> Models 210B,C only <b>5</b> Models 210D,E only <b>6</b> Models 210D,E,F only <b>7</b> Model 210F only		
Tip, Wing, Conical, LH	A	GF0523565-29791 <b>10</b> <b>K</b> SA-0523565-29 <b>10</b> <b>S</b>						
Tip, Wing, Conical, RH	A	GF0523565-30791 <b>10</b> <b>K</b> SA-0523565-30 <b>10</b> <b>S</b>						

**Eligibility continues in next column**

**1** Fiberglass Parts Manufactured By Knots 2U **5** Fiberglass Parts Manufactured By Stene Aviation **1** ABS Plastic Parts Manufactured By Texas AeroPlastics

Cessna 205, 206, 207 and 210 Series Aircraft

210G,H,J,K,L,M,N,R S/N 21058819 thru 21065009			T210F,G,H,J,K,L,M,N,R S/N T210-0001 thru T210-0454		
Description	Idx	Part Number	Description	Idx	Part Number
Cap, Rudder Top	L	GF0731606-04 <b>9 K</b> GF0731606-01 <b>1 K</b> SA-0731606-6 <b>5 S</b> SA-0731606-9 <b>9 S</b>	Cap, Rudder Top	L	GF0731606-04 <b>9 K</b> GF0731606-01 <b>2 K</b> SA-1231001-2 <b>1 S</b>
Cap, Vertical Fin No Beacon Base	K	GF0731606-03 <b>11 K</b> K0731606-1 <b>1 K</b> SA-0731606-1 <b>5 S</b> SA-0731606-10 <b>10 S</b>	Cap, Vertical Fin No Beacon Base	K	GF0731606-03 <b>1 K</b> K0731606-1 <b>2 K</b>
Cap, Vertical Fin Small Beacon Base	K	K0731606-3 <b>1 K</b> K1231064 <b>11 K</b>	Cap, Vertical Fin Small Beacon Base	K	K0731606-3 <b>2 K</b> K1231064 <b>1 K</b>
Cap, Vertical Fin 2 1/4" Beacon Base	K	SA-0731606-3 <b>4 S</b> SA-1231064-1 <b>10 S</b>	Cap, Vertical Fin 2 1/2" Beacon Base	K	SA-1231059-1 <b>10 S</b>
Cap, Vertical Fin 2 1/2" Beacon Base	K	SA-1231059-1 <b>8 S</b>	Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>8 K</b> SA-1212010-14 <b>S</b>
Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>7 K</b> SA-1212010-14 <b>S</b>	Tip, Elevator, LH	N	GF1234608-01 <b>1 K</b> K1234640-1 <b>4 K</b> SA-1234608-3 <b>1 S</b> SA-1234640-1 <b>3 S</b>
Tip, Elevator, LH	N	K1234640-1 <b>K</b> SA-1234640-1 <b>2 S</b>	Tip, Elevator, RH	N	GF1234608-02 <b>1 K</b> K1234640-2 <b>4 K</b> SA-1234608-4 <b>1 S</b> SA-1234640-2 <b>3 S</b>
Tip, Elevator, RH	N	K1234640-2 <b>K</b> SA-1234640-2 <b>2 S</b>	Tip, Horiz. Stab., LH or RH	Q	SA-1232012-1 <b>2 S</b> GF1232012-1 <b>3 K</b>
Tip, Horiz. Stab., LH or RH	Q	SA-1232012-1 <b>2 S</b> GF1232012-1 <b>3 K</b>	Tip, Wing, LH	A	SA-1221111-203 <b>6 S</b> SA-1221111-202 <b>6 S</b>
Tip, Wing, LH	A	SA-1221111-203 <b>6 S</b>	Tip, Wing, RH	A	SA-1221111-203 <b>7 S</b> SA-1221111-202 <b>7 S</b>
Tip, Wing, RH	A	SA-1221111-202 <b>6 S</b>	<b>1</b> S/N 21058819 thru 21061573 only <b>2</b> S/N 21058819 thru 21064897 only <b>3</b> S/N 21059038 thru 21064897 only <b>4</b> S/N 21059200 thru 21059719 only <b>5</b> S/N 21059200 thru 21061039 only <b>6</b> S/N 21059200 thru 21064897 only <b>7</b> S/N 21059200 and on <b>8</b> S/N 21059503 thru 21061573 only <b>9</b> S/N 21059503 and on <b>10</b> S/N 21061040 thru 21064135 only <b>11</b> S/N 21061040 and on <b>P210N,R</b> S/N P21000001 thru P21000874		
<b>1</b> S/N 21058819 thru 21061573 only <b>2</b> S/N 21058819 thru 21064897 only <b>3</b> S/N 21059038 thru 21064897 only <b>4</b> S/N 21059200 thru 21059719 only <b>5</b> S/N 21059200 thru 21061039 only <b>6</b> S/N 21059200 thru 21064897 only <b>7</b> S/N 21059200 and on <b>8</b> S/N 21059503 thru 21061573 only <b>9</b> S/N 21059503 and on <b>10</b> S/N 21061040 thru 21064135 only <b>11</b> S/N 21061040 and on <b>P210N,R</b> S/N P21000001 thru P21000874			<b>1</b> Models T210F only <b>2</b> Models T210G,H,J,K,L only <b>3</b> Models T210G,H,J,K,L,M,N only <b>4</b> Models T210G,H,J,K,L,M,N,R only <b>5</b> S/N T210-0382 thru T210-0454 only <b>6</b> Models T210H,J,K,L,M,N only <b>7</b> Models T210K,L,M,N only <b>8</b> Models T210K,L,M,N,R only <b>9</b> Models T210L,M,N,R only <b>10</b> Model T210L only		
Description	Idx	Part Number			
Cap, Rudder Top	L	GF0731606-04 <b>K</b>			
Cap, Vertical Fin No Beacon Base	K	GF0731606-03 <b>K</b>			
Cap, Vertical Fin Small Beacon Base	K	K1231064 <b>K</b>			
Fairing, Stinger (Tailcone)	O	GF1212010-00 <b>K</b> SA-1212010-14 <b>S</b>			
Tip, Elevator, LH	N	K1234640-1 <b>K</b> SA-1234640-1 <b>1 S</b>			
Tip, Elevator, RH	N	K1234640-2 <b>K</b> SA-1234640-2 <b>1 S</b>			
Tip, Wing, LH	A	SA-1221111-203 <b>1 S</b>			
Tip, Wing, RH	A	SA-1221111-202 <b>1 S</b>			
<b>1</b> Model P210N only					

Kits available for 205, 206, 207 and 210 aircraft			
Kit P/N	Kit Description	Part Number	Item Description
20-51-80A	Conical Wing Tip Kit	20-51L-80A	Tip, Wing, LH
		20-51R-80A	Tip, Wing, RH
20-52-80A	Conical Wing Tip Kit	20-52L-80A	Tip, Wing, LH
		20-52R-80A	Tip, Wing, RH
SA-1227401-2345 SP	Split Strut Fairing Kit, Fiberglass	SA-1227401-5SP	Fairing, Strut to Fuselage, LH
		SA-1227401-4SP	Fairing, Strut to Fuselage, RH
		SA-1227002-11SP	Fairing, Strut to Wing, LH
		SA-1227002-10SP	Fairing, Strut to Wing, RH
SA-1227402-3456 SP	Split Strut Fairing Kit, Fiberglass	SA-1227402-3SP	Fairing, Strut to Fuselage, LH
		SA-1227402-4SP	Fairing, Strut to Fuselage, RH
		SA-1227002-11SP	Fairing, Strut to Wing, LH
		SA-1227002-10SP	Fairing, Strut to Wing, RH



**K** Fiberglass Parts Manufactured By Knots 2U

**S** Fiberglass Parts Manufactured By Stene Aviation

**T** ABS Plastic Parts Manufactured By Texas Aeroplastics




Go to [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for more details about specific part numbers.

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FAA-PMA Approved

**Cessna 300 and 400 Series Aircraft**

					
<b>310, 310P</b>		<b>336, 337, 337A,B,C,D,E,F,G,H, F337E,F,G,H, FT337E,F, P337H, T337G</b>		<b>340, 401, 401A,B, 402, 402A,B,C</b>	
<b>Description</b>	<b>Part Number</b>	<b>Description</b>	<b>Part Number</b>	<b>Description</b>	<b>Part Number</b>
Cap, Nose, Left	GF0851119-1 <b>1 K</b>	Fairing, Strut To Fuslg, LH	33-06-LFS <b>3 T</b> SA-1412251-3 <b>8 S</b> SA-1521002-1 <b>9 S</b>	Tip, Stabilizer, Left or Right	GF0832115-1 <b>5 K</b>
Cap, Nose, Right	GF0851119-2 <b>1 K</b>	Fairing, Strut To Fuslg, RH	33-06-RFS <b>3 T</b> SA-1412251-4 <b>8 S</b> SA-1521002-2 <b>9 S</b>		
Fairing, Stinger (Tailcone)	GF0831372-1 <b>2 K</b>	Fairing, Strut To Wing, LH	33-06-LWS <b>3 T</b> SA-1421001-5 <b>8 S</b> SA-1521002-3 <b>9 S</b>		
Tip, Stabilizer, Left or Right	GF0832115-1 <b>2 K</b>	Fairing, Strut To Wing, RH	33-06-RWS <b>3 T</b> SA-1421001-6 <b>8 S</b> SA-1521002-4 <b>9 S</b>		
<b>1</b> Model 310P S/N 310P0001 thru 310P0094 only <b>2</b> Model 310 only		Tip, Rudder	GF1431001-8 <b>4 K</b> SA-1431001-8 <b>9 S</b>		
		Tip Vertical Fin, Lower	GF1431001-11 <b>4 K</b> SA-1431001-11 <b>9 S</b>		
		Tip, Vertical Fin, Upper	GF1531003-9 <b>6 K</b> SA-1531003-9 <b>9 S</b>		
		Tip, Vertical Fin, Upper LH	GF1431001-10 <b>7 K</b>		
		Tip, Wing, LH	SA-1520008-23 <b>9 S</b>		
		Tip, Wing, RH	SA-1520008-24 <b>9 S</b>		
		<b>3</b> Models 337, 337A,B,C,D,E,F only <b>4</b> Models 336, 337, 337A,B,C,D,F,G,H, F337E,F,G,H, FT337E,F,P337H,T337G only <b>5</b> Models 310, 340, 401, 401A,B, 402, 402A,B,C only <b>6</b> Models 337G,H, F337G, P337H,T337G only <b>7</b> Models 336, 337, F337E,F,G,H, FT337E,F, P337H, T337G only <b>8</b> Models 337E,F, T337E,F only <b>9</b> Models 337G,H, T337H only			

**Commander 112/114 Series Aircraft Fiberglass parts by Knots 2U**

**Vertical Fin Tip**

**114, 114A,B, 114TC** S/N 14000-14624  
P/N GF44300-3



**Tailcone Stinger**

**114**  
P/N GF43367-210



**Dorsal Fin Tip**

**112, 114 Series**  
P/N GF43650-501



**Stabilator Tip**

**112,A,B,TC,TCA 114**  
P/N GF44324-400  
Fits left or right.



**Rudder Tip**

**114,A,B**  
P/N GF44233-11



**Wing Tips**

**112, 112A, 114**  
P/N GF142242-17 (Left)  
P/N GF142242-18 (Right)



**112B, 112TC, 112TCA**  
P/N GF175009-3 (Left)  
P/N GF175009-8 (Right)



Photo courtesy of Lauren Sobkoviak

Go to [www.mcfarlaneaviation.com](http://www.mcfarlaneaviation.com) for more details about specific part numbers.

# Piper PA-23, PA-24, PA-28-140 thru PA-28-161 Series Aircraft

## Strut and Landing Gear Fairings

**Nose Gear Strut Fairings**  
**PA-28-151, -161**  
 P/N GF37893-06 (Forward)  
 P/N GF37893-07 (Aft)  
 Fiberglass



**Nose Gear Door Assembly**  
**(Set - Left and Right)**  
**PA-23-250**  
 P/N GF31515  
 Fiberglass



**Nose Wheel Fairing**  
**With Door (5.00 X 5 Tire)**  
**PA-28-151, -161**  
 P/N GF35838-10  
 Used on aircraft where nose gear fairing incorporates a door assembly in the side of the wheel fairing.  
 Fiberglass



**Main Gear Assembly**  
**(Set - Left and Right, per tire)**  
**PA-23-250**  
 P/N GF31466  
 Fiberglass



**Main Wheel Strut Fairings (Forward)**  
**PA-28-161**  
 P/N GF79892-04 (Left)  
 P/N GF79892-05 (Right)



**Main Wheel Strut Fairings (Aft)**  
**PA-28-161**  
 P/N GF79892-10 (Left)  
 P/N GF79892-09 (Right)



**Main Wheel Access Panels**  
**PA-28-161**  
 P/N GF79890-02 (Left)  
 P/N GF79890-03 (Right)



**Main Wheel Shell Assemblies**  
**PA-28-161**  
 P/N GF79890-00 (Left)  
 P/N GF79890-01 (Right)



**Nose Wheel Fairing Cover (Aft)**  
**PA-28-151, -161**  
 P/N GF36568-03  
 Used on aircraft where nose gear fairing **does not** incorporate a door assembly in the side of the wheel fairing.  
 Fiberglass



**Nose Wheel Fairing Covers**  
**PA-28-151, -161**  
 P/N GF37928-03 (Forward)  
 P/N GF37928-04 (Aft)  
 Used on aircraft where nose gear fairing incorporates a door assembly in the side of the wheel fairing.  
 Fiberglass



**Nose Wheel Pants**  
**(5.00 X 5 Tire)**  
**PA-28-151, -161**  
 P/N K35512-00



**(6.00 X 6 Tire)**  
**PA-28-140, -150, -160**  
 P/N K65331-00



**Main Wheel Pants**  
**PA-28-140, -150, -161**  
**PA-28-160, -161**  
 P/N K65203-00 (Left)  
 P/N K65203-01 (Right)



Manufactured with high technology resin and cloth for superior weight to strength ratio. Hole locations are dimpled for easy installation. Includes the baffle behind the tire to prevent mud and snow buildup. White primer, ready for paint.  
 Fiberglass

For aircraft s/ns 28-7816001 thru 28-7916228, main landing gear fiberglass wheel and strut fairing replacement kit p/n 763 918 must have been installed per Service Letter 862. New fiberglass fairings are identified by camloc fasteners attaching inner and outer fairing halves together. Obsolete cyclac fairings are identified by screws, washers and nuts attaching inner and outer fairing halves together.  
 Fiberglass



Eligibility continued on next page

Model	Serial Number	Part Number	Description	GF20804-12	GF21605-05	60-27	60-28	60-65224-80A	60-67785-17-80A	GF35838-10 W/door	GF35838-010 W/O Door	GF36568-03	GF36568-02	GF37893-07	GF37928-04	GF37893-06	GF37928-03	60-63942-00-80A	GF63942-00	60-63942-01-80A	GF63942-01	K35699-02	K35699-03	GF31466-00	GF31466-01	GF31515-00	GF31515-01	60-19	60-24	K63338-00	K65203-00	K65203-01	GF79890-02	GF79890-03	GF79890-00	GF79890-01			
PA-23-250	All		BULKHEAD ASSY, Tail Fairing																																				
PA-24	24-1 thru 24-3336 except 24-3335		CAP, Vertical Fin																																				
PA-24-250	24-3337 thru 24-3687		COVER, Flap Handle																																				
PA-24-250	24-105 thru 24-2843		COVER, Nose Wheel Strut, Aft																																				
PA-24-250	24-2844 thru 24-3687		COVER, Nose Gear Fairing, Fwd																																				
PA-24-260	All		COVER, Nose Gear Strut Fairing, Aft																																				
PA-24-400	All		COVER, Wing Bolt, Left																																				
PA-28-140	28-20001		COVER, Wing Bolt, Right																																				
PA-28-140	28-20002 thru 28-7225000		Cowl Assy, Nose Upper																																				
PA-28-140	28-7225001 thru 28-7425000		Cowl Assy, Nose Lower																																				
PA-28-140	28-7425001 thru 28-7725290		DOOR, Main Gear, Left																																				
PA-28-150,160	All		DOOR, Main Gear, Right																																				
PA-28-151	28-7415001 thru 28-7415713		DOOR, Nose Gear, Left																																				
PA-28-151	28-7415714 thru 28-7715314		DOOR, Nose Gear, Right																																				
PA-28-161	2816001 thru 28-7716000		FAIRING, Dorsal Fin, Forward																																				
PA-28-161	28-7716001 thru 28-7715323		FAIRING, Main Gear, LH or RH																																				
PA-28-161	28-7715324 thru 28-7716323		FAIRING, Main Wheel Left																																				
PA-28-161	28-7716324 thru 28-7816000		FAIRING, Main Wheel Right																																				
PA-28-161	28-7816001 thru 28-8616057		FAIRING, Main Wheel Access Panel, Left																																				
PA-28-161	28-7816001 thru 28-8616057		FAIRING, Main Wheel Access Panel, Right																																				
PA-28-161	28-7816001 thru 28-8616057		FAIRING, Main Wheel Shell, Left																																				
PA-28-161	28-7816001 thru 28-8616057		FAIRING, Main Wheel Shell, Right																																				

Eligibility for P/N GF37893-06 and P/N GF37893-07 includes PA28-151 S/Ns 28-7515459, 28-7615445, 28-7715314 and PA-28-161 S/Ns 28-7816695, 28-7916617, 28-8416131, 28-8516099, 28-8616057

FAA-PMA Approved

**Piper PA-23, PA-24, PA-28-140 thru PA-28-161 Series Aircraft**

**Tail Surfaces**

**Dorsal Fins**

**PA-28-140, -151, -161**  
P/N RD-0095-00 (Aft)  
P/N RD-0096-00 (Forward)  
Piper straight tail models.  
Fiberglass



**Dorsal Fin Fairing (Forward)**  
**PA-28**

P/N 60-19  
ABS Plastic



**Dorsal Fin Fairing (Forward)**  
**PA-28**

P/N 60-24  
Long, forward dorsal fin fairing.  
35" long forward dorsal fin standard to most single engine Piper aircraft.  
Not for T-tail aircraft.  
ABS Plastic



**Dorsal Fin (Forward)**  
**PA-28-140, -150, -160**

P/N GF78913-00  
Fiberglass



**Dorsal Fin (Forward)**  
**PA-28-140, -150, -160**

P/N GF63517-00  
Fiberglass



**Stabilator Tip**  
**PA-23-235, PA-23-250**

P/N GF16109-00  
Fits left or right.  
Fiberglass



**Stabilator Tip**  
**PA-24-250, -260**

P/N GF28041-00  
Used on aircraft with Stabilator Modification Kit 760-747 installed.  
Fits left or right.  
Fiberglass



**Stabilator Tip**  
**PA-28-140, -150, -151**

**PA-28-160, -161**  
P/N RD-0094-00  
Fits left or right.  
Fiberglass



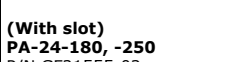
**Stabilator Tip**  
**PA-28**

P/N 60-23  
7" deep, not for aircraft with 12" deep tips.  
Fits left or right.  
ABS Plastic



**Rudder Tips (Without slot)**  
**PA-24-180, -250**

P/N GF21555-00  
Used on aircraft where Rudder Balance Weight Installation Kit 760 705 has not been installed. Fiberglass



**Stabilator Tip**  
**PA-24-180, -250, -260**

P/N GF21556-00  
Fits left or right.  
Fiberglass



**(With slot)**  
**PA-24-180, -250**

P/N GF21555-02  
Used on aircraft with Rudder Balance Weight Installation Kit 760 705 installed. Fiberglass



**Stabilator Tip (Set - Left and Right)**  
**PA-23-250**

P/N GF28466-00  
Fiberglass



**Vertical Fin Tip (For Rotating Beacon)**  
**PA-28-140, -151, -161**

P/N GF65345-03  
Fiberglass



**Vertical Fin Tip**  
**PA-24-180, -250**

P/N GF21557-00  
Fiberglass



**Vertical Fin Tip (For Rotating Beacon)**  
**PA-28-140, -150, -160**

P/N GF63514-00  
Holds a 3 3/4" diameter rotating beacon or strobe.  
Fiberglass



**Rudder Tip (Without slot)**  
**PA-24-260**

P/N GF24846-00  
Fiberglass



**Vertical Fin Tip**  
**PA-24-260**

P/N GF24896-00  
Fiberglass



Eligibility continued from previous page

Model	Serial Number	Part Number	Description	FAIRING, Main Wheel, Upper, Fwd, Left	FAIRING, Main Wheel, Upper, Fwd, Right	FAIRING, Main Wheel, Upper, Aft, Right	FAIRING, Main Wheel, Upper, Aft, Left	FAIRING, Nacelle, Inboard LH	FAIRING, Nacelle, Inboard RH	FAIRING, Nacelle, Outboard LH	FAIRING, Nacelle, Outboard RH	FAIRING, Nose Wheel	FAIRING, Tailcone, Lower	FAIRING, Tailcone, Upper	FAIRING, Wing Root, Left	FAIRING, Wing Root, Right	FIN, Dorsal Aft	FIN, Dorsal Forward	FLOOR TRIM	MOULDING, Wing Root	SCOOP ASSY, Bottom Cowl	SCOOP, Cabin Air Inlet	SCOOP, Cowl	TAILCONE, Assembly	TAILCONE, Lower	TAILCONE, Upper	TIP, Dorsal Fairing	TIP, Fin	TIP, Rudder	TIP, Rudder, w/o slot	TIP, Rudder, with slot		
PA-23-235	All	GF79892-04	FAIRING, Main Wheel, Upper, Fwd, Left																														
PA-23-250	27-1 thru 27-3070	GF79892-05	FAIRING, Main Wheel, Upper, Fwd, Right																														
	27-3071 thru 27-4444	GF79892-09	FAIRING, Main Wheel, Upper, Aft, Right																														
	27-4445 thru 27-7305134	GF79892-10	FAIRING, Main Wheel, Upper, Aft, Left																														
	27-7305135 thru 27-8154030	GF32466-00	FAIRING, Nacelle, Inboard LH																														
PA-24	24-1 thru 24-1329	GF32466-01	FAIRING, Nacelle, Inboard RH																														
	24-1330 thru 24-1476	GF32471-00	FAIRING, Nacelle, Outboard LH																														
	24-1477 and On	GF32471-01	FAIRING, Nacelle, Outboard RH																														
PA-24-250	24-1 thru 24-1329	K35512-00	FAIRING, Nose Wheel																														
	24-1330 and On	K65331-00	FAIRING, Tailcone, Lower																														
PA-24-260	All	60-31	FAIRING, Tailcone, Upper																														
PA-24-400	All	60-30	FAIRING, Tailcone, Upper																														
PA-28-140	28-20001	GF32464-00	FAIRING, Wing Root, Left																														
	28-20002 thru 28-7125651	GF32464-01	FAIRING, Wing Root, Right																														
	28-7125652 thru 28-7225000	RD-0095-00	FIN, Dorsal Aft																														
	28-7225001 thru 28-7325684	RD-0096-00	FIN, Dorsal Forward																														
	28-7325684 thru 28-7725290	60-18	FLOOR TRIM																														
PA-28-150,160	28-0001 thru 28-1760	K65773-00	MOULDING, Wing Root																														
	28-1761 thru 28-3977	GF21143	SCOOP ASSY, Bottom Cowl																														
	28-3978 thru 28-4377	K21933-00	SCOOP, Cabin Air Inlet																														
PA-28-161	2816001 thru 28-7415000	K21947-00	SCOOP, Cowl																														
	28-7716001 thru 28-7716323	RD-0099-00	TAILCONE, Assembly																														
	28-7716324 thru 28-8616057	RD-0098-00	TAILCONE, Lower																														

1 Eligibility for P/N GF37893-06 and P/N GF37893-07 includes PA28-151 S/Ns 28-7515459, 28-7615445, 28-7715314 and PA-28-161 S/Ns 28-7816695, 28-7916617, 28-8416131, 28-8516099, 28-8616057  
 2 P/N GF21143 is not for use on PA-24 aircraft with Cowl P/Ns 21950-07/-14, 22858-02, 22857-12, 24895-02/-17, or if carburetor air filter kit 754 285 is installed.  
 3 P/N K21947-00 can be installed on PA-24-250, S/N 24-103 thru 24-1476 only if carburetor air filter kit 754-285 has been installed.



**Piper PA-23, PA-24, PA-28-140 thru PA-28-161 Series Aircraft**

**Tailcone Fairings**

**Tailcones**

**PA-28**

Upper P/N 60-30  
Lower P/N 60-31  
One upper and one lower part together constitute one tailcone. Holes for attachment hardware must be drilled by the installer. Not for T-tail aircraft. Hardware not included.  
ABS Plastic



**Tailcone Assembly (Upper and Lower)**

**PA-28-140, -150, -151  
PA-28-160, -161**

P/N RD-0099-00  
Pre-assembled with nut plates and stainless steel hardware.  
Not for T-tail aircraft.  
Fiberglass



**Tailcone (Lower)**

**PA-28-140, -150, -151  
PA-28-160, -161**

P/N RD-0098-00  
Not for T-tail aircraft.  
Fiberglass



**Tailcone (Upper)**

**PA-28-140, -150, -151  
PA-28-160, -161**

P/N RD-0097-00  
Not for T-tail aircraft.  
Fiberglass



**Tail Fairing Bulkhead Assy**

**Tail Fairing (Bulkhead Assembly)**  
**PA-24-180, -250, -260**  
P/N GF20804-12  
Fiberglass

**PA-24-180, -250, -400**  
P/N GF21605-05  
Fiberglass



**Wings**

**Wing Bolt Covers**

**PA-28**

P/N GF63942-00 (Left)  
P/N GF63942-01 (Right)  
Fiberglass

P/N 60-63942-00-80A (Left)  
P/N 60-63942-01-80A (Right)  
Kit P/N 60-63942-80A includes both left and right. ABS Plastic

Heavy duty under wing spar bolt covers.



**Wing Tips**

**PA-28**

P/N 60-33L-4-80A (Left)  
P/N 60-33R-4-80A (Right)  
Kit P/N 60-33-4-80A includes both left and right.  
For Piper taper wing aircraft with 4" nav light pad for strobes.

P/N 60-33L-6-80A (Left)  
P/N 60-33R-6-80A (Right)  
Kit P/N 60-33-6-80A includes both left and right.  
For Piper taper wing aircraft with 6" nav light pad for strobes.

ABS Plastic



**Wing Tips**

**PA-28-140, -150, -160**

P/N GF78022-00 (Left)  
P/N GF78022-01 (Right)  
Fiberglass



**Wing Tips**

**PA-28-140, -150, -160**

P/N GF62090-00 (Left)  
P/N GF62090-01 (Right)  
Fiberglass



**Wing Tips**

**PA-23-250**

P/N GF34267-00 (Left)  
P/N GF34267-01 (Right)  
Fiberglass



**Wing Root Fairings**

**PA-23-250**

P/N GF32464-00 (Left)  
P/N GF32464-01 (Right)  
Fiberglass



**Nacelle Fairings**

**PA-23-250**

P/N GF32466-00 (Inboard Left)  
P/N GF32466-01 (Inboard Right)  
P/N GF32471-00 (Outboard Left)  
P/N GF32471-01 (Outboard Right)  
Fiberglass



Eligibility continued from previous page

Model	Serial Number	Description												
		Part Number	TIP, Stabilator	TIP, Stabilator, Set, RH and LH	TIP, Stabilizer, Left or Right	TIP, Vertical Fin	TIP, Vertical Fin, Rotating Beacon	TIP, Wing, Left	TIP, Wing, Right	TIP, Wing, Left, 4" Nav Pad Only	TIP, Wing, Right, 4" Nav Pad Only	TIP, Wing, Left, 6" Nav Pad Standard	TIP, Wing, Right, 6" Nav Pad Standard	
PA-23-235	All													
PA-23-250	27-1 thru 27-2504													
	27-2505 thru 27-7654001													
	27-7654001 thru 27-7954087													
PA-24	27-7954088 thru 27-8154030													
	All except 24-3335													
PA-24-250	All													
PA-24-260	All													
PA-24-400	All													
PA-28-140	28-20001													
	28-20002 thru 28-7125651													
	28-7125652 thru 28-7225000													
	28-7225001 thru 28-7225684													
	28-7325684 thru 28-7425000													
28-7425001 thru 28-7725290														
PA-28-150,160	All													
PA-28-151,161	All													

**Engine Cowling**

**Bottom Cowl Scoop Assembly**

**PA-24-180, -250, -260**

P/N GF21143  
Not for use on cowl part number 21950-07, 21950-14, 22856-02, 22857-12, 24895-02, 24895-17, or if Carburetor Air Filter Kit 754 285 has been installed.  
Fiberglass



**Interior**

**Flap Handle Covers**

**PA-28**

P/N 60-65224-80A  
Use for early models with no induction slot or trim wheel slot.

P/N 60-67785-17-80A  
Use on later models that have an induction slot and a trim wheel slot in the center.

No labeling or lenses are provided. Trimmed and ready for installation.  
ABS Plastic

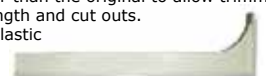


**Plastic Floor Trim**

**PA-28**

**PA-28**

P/N 60-18  
Lightweight trimmable floor covers for rails located on the front floor board, just in front of the pilot and co-pilot seats. Longer than the original to allow trimming for length and cut outs.  
ABS Plastic



**Piper PA-28 Series Aircraft**

**Strut and Landing Gear Fairings**

**Main Wheel Strut Fairings (Forward)**

**PA-28-181, -236, -201T**  
P/N GF79892-04 (Left)  
P/N GF79892-05 (Right)



**Main Wheel Strut Fairings (Aft)**

**PA-28-181, -236, -201T**  
P/N GF79892-10 (Left)  
P/N GF79892-09 (Right)



**Main Wheel Access Panels**

**PA-28-181, -236, -201T**  
P/N GF79890-02 (Left)  
P/N GF79890-03 (Right)



**Main Wheel Shell Assemblies**

**PA-28-181, -236, -201T**  
P/N GF79890-00 (Left)  
P/N GF79890-01 (Right)



For aircraft s/ns 28-7816001 thru 28-7916228, main landing gear fiberglass wheel and strut fairing replacement kit p/n 763 918 must have been installed per Service Letter 862. New fiberglass fairings are identified by camloc fasteners attaching inner and outer fairing halves together. Obsolete cycolac fairings are identified by screws, washers and nuts attaching inner and outer fairing halves together. Fiberglass

**Nose Wheel Pants (6.00 X 6 Tire)**

**PA-28-180**  
P/N K65331-00



**Main Wheel Pants**

**PA-28-180, -235**  
P/N K65203-00 (Left)  
P/N K65203-01 (Right)



Manufactured with high technology resin and cloth for superior weight to strength ratio. Hole locations are dimpled for easy installation. Includes the baffle behind the tire to prevent mud and snow buildup. White primer, ready for paint. Fiberglass

**Nose Wheel Fairing Covers**

**PA-28-181, -236**  
P/N GF37926-03 (Forward)  
P/N GF37926-04 (Aft, PA-28-181 only)  
Used on aircraft where nose gear fairing incorporates a door assembly in the side of the wheel fairing. Fiberglass



**Nose Wheel Strut Fairing Covers**

**PA-28-181**  
P/N GF37925-07 (Forward)  
P/n GF37925-06 (Aft)  
Fiberglass



**Nose Gear Strut Cover (Aft)**

**PA-28-201T**  
P/N GF35832-07  
Fiberglass



**Nose Wheel Fairing With Door (5.00 X 5 Tire)**

**PA-28-201T**  
P/N GF35838-10  
Fiberglass



**Nose Gear Fairing Assembly**

**PA-28-181**  
P/N GF35944-15  
Fiberglass



**Nose Wheel Strut Fairings**

**PA-28-236**  
P/N GF35931-06 (Forward)  
P/N GF35931-07 (Aft)  
Fiberglass



**Nose Wheel Fairing Cover (Aft)**

**PA-28-236**  
P/N GF35946-02  
Fiberglass



**Wings**

**Wing Tips**

**PA-28**  
P/N 60-33L-4-80A (Left)  
P/N 60-33R-4-80A (Right)  
Kit P/N 60-33-4-80A includes both left and right.  
For Piper taper wing aircraft with 4" nav light pad for strobes.

P/N 60-33L-6-80A (Left)  
P/N 60-33R-6-80A (Right)  
Kit P/N 60-33-6-80A includes both left and right.  
For Piper taper wing aircraft with 6" nav light pad for strobes.

ABS Plastic



**Wing Tips**

**PA-28-180**  
**PA-28R-180, -200**  
P/N GF62090-00 (Left)  
P/N GF62090-01 (Right)  
Fiberglass



**PA-28-180**  
**PA-28R-180, -200**  
P/N GF78022-00 (Left)  
P/N GF78022-01 (Right)  
Fiberglass



**Wing Bolt Covers**

**PA-28**  
P/N GF63942-00 (Left)  
P/N GF63942-01 (Right)  
Fiberglass



P/N 60-63942-00-80A (Left)  
P/N 60-63942-01-80A (Right)  
Kit P/N 60-63942-80A includes both left and right. ABS Plastic

Heavy duty under wing spar bolt covers.



**Nose Gear Doors**

**PA-28R-180**  
**PA-28R-200, -201, -201T**  
**PA-28RT-201T**  
P/N GF67352-00 (Left)  
P/N GF67352-01 (Right)  
Fiberglass



Indicated year ranges for reference only.

Eligibility for the PA-23, PA-24, PA-28 parts shown on this page is on the previous and following pages.

Superseded P/N	Use P/N
35115-00,10	60-33L-4-80A and 60-33L-6-80A
35115-01,11	60-33R-4-80A and 60-33R-6-80A
35641-00,10,12,14,18,20	60-33L-4-80A and 60-33L-6-80A
35641-01,11,13,15,19,21	60-33R-4-80A and 60-33R-6-80A
36739-02,04,06,08,10,18,22,38,42,44,46,52,53	60-33L-4-80A and 60-33L-6-80A
36739-03,05,07,09,11,19,23,39,43,45,47,54,55	60-33R-4-80A and 60-33R-6-80A
62629-00	RD-0099-00
62629-02	RD-0098-00
62629-03	RD-0097-00
63131-00	60-18
63374-00	K65203-00
63517-00	60-19 or GF63517-00
63584	60-23 or RD-0094-00
63584-00,06,10,14	RD-0094-00
63589-00	RD-0094-00
63942-00	60-63942-00-80A or GF63942-00
63942-01	60-63942-00-80A or GF63942-01
65203-03	K65203-01
65224-02,03,04,05,06,07	60-65224-80A

Superseded P/N	Use P/N
65345-03	60-28 or GF65345-03
66822-07	60-31 or RD-0098-00
66822-08	60-30 or RD-0097-00
66822-09	RD-0098-00
66822-10	RD-0097-00
67785-17	60-67785-17-80A
68421-02,03,04,08,10	60-69596-80A
69569-02,03,05,06,12,14	60-69596-80A
78913-04	GF78913-00
79890-04,43	GF79890-00
79890-05,44	GF79890-01
79890-07,45	GF79890-02
79890-08,46	GF79890-03
99035-03	60-27
99519-02	RD-0095-00
99619-02	RD-0096-00
99621-00	60-24 or RD-0096-00
99621-02	RD-0096-00

## Piper PA-28 Series Aircraft

### Tail Surfaces

**Dorsal Fin Fairing (Forward)**

**PA-28**  
P/N 60-24  
Long, forward dorsal fin fairing. 35" long forward dorsal fin standard to most single engine Piper aircraft. Not for T-tail aircraft.  
ABS Plastic



**Dorsal Fins (Forward)**

**PA-28**  
P/N 60-19  
ABS Plastic

**PA-28-180**  
PA-28R-180, -200  
P/N GF63517-00  
Fiberglass



**Dorsal Fin (Forward)**

**PA-28-180**  
**PA-28R-180, -200**  
P/N GF78913-00  
Fiberglass



**Dorsal Fins**

**PA-28-181, -180, -235, -236, -201T**  
**PA-28R-200, -201, -201T**  
P/N RD-0095-00 Aft  
P/N RD-0096-00 Forward  
For Piper straight tail models.  
Fiberglass



**Stabilator Tip**

**PA-28-235**  
**PA-28R-180, -200**  
**PA-28RT-201, -201T**  
P/N K2U65300-00  
Fits left or right.  
Approximate dimensions:  
L 30 3/8" x H 12 1/4" x W 3 3/8"  
Fiberglass



**Stabilator Tip**

**PA-28-181, -235, -236**  
**PA-28-201T**  
**PA-28R-180**  
**PA-28R-200, -201, -201T**  
P/N RD-0094-00  
Fits left or right.  
Fiberglass



**Stabilator Tip**

**PA-28**  
P/N 60-23  
7" deep, not for aircraft with 12" deep tips. Fits left or right.  
Not for T-tail aircraft.  
ABS Plastic



**Vertical Fin Tip**

**For Rotating Beacon**  
**PA-28-181**  
**PA-28-201T, -235, -236**  
**PA-28R-180, -200**  
P/N GF65345-03  
Fiberglass



**Vertical Fin Cap**

**PA-28**  
**2 1/4" Strobe**  
P/N 60-27  
For the strobe base light or small beacon. 2 1/4" base for strobe or small flasher.  
ABS Plastic



**Lower Rudder Fairing**

**(No Pos Light)**  
**PA-28RT-201, -201T**  
P/N GF35885-10  
Used on aircraft where rudder tip tail light **is not** installed.  
Fiberglass



**Lower Rudder Fairing**

**(With Light Receptacle)**  
**PA-28RT-201, -201T**  
P/N GF35885-03  
Used on aircraft with rudder tip tail light installed.  
Fiberglass



**Vertical Fin Tip**

**For Rotating Beacon**  
**PA-28-180**  
P/N GF63514-00  
Holds a 3 3/4" diameter rotating beacon or strobe.  
Fiberglass



**Vertical Fin Cap**

**PA-28**  
**3" Strobe**  
P/N 60-28  
For large rotating beacon. 3" diameter opening.  
ABS Plastic

Eligibility continued on next page

Model	Serial Number	Part Number	Description
		60-27	CAP, Vertical Fin
		60-28	COVER, Flap Handle
		60-65224-80A	Cover, Nose Wheel Fairing, Fwd
		60-67785-17-80A	Cover, Nose Wheel Strut, Aft
		K36559-806	Cover, Nose Gear Fairing, Aft
		GF35832-07	Cover, Nose Gear Fairing, Fwd
		GF35946-02	Cover, Nose Gear Strut Fairing, Aft
		GF37926-04	Cover, Nose Gear Strut Fairing, Fwd
		GF37926-03	COVER, Wing Bolt, Left
		GF37925-06	COVER, Wing Bolt, Right
		GF37925-07	DOOR, Nose Gear, Left
		60-63942-00-80A	DOOR, Nose Gear, Right
		GF63942-00	FAIRING, Dorsal Fin, Aft
		60-63942-01-80A	FAIRING, Dorsal Fin, Forward
		GF63942-01	FAIRING, main Gear, LH or RH
		GF67352-00	FAIRING, Main Wheel Left
		GF67352-01	FAIRING, Main Wheel Right
		K78913-07	FAIRING, Main Wheel Access Panel, Left
		60-19	FAIRING, Main Wheel Access Panel, Right
		60-24	FAIRING, Main Wheel Shell, Left
		K63338-00	FAIRING, Main Wheel Shell, Right
		K65203-00	FAIRING, Main Wheel, Upper, Fwd, Left
		K65203-01	FAIRING, Main Wheel, Upper, Fwd, Right
		GF79890-02	FAIRING, Main Wheel, Upper, Aft, Left
		GF79890-03	FAIRING, Main Wheel, Upper, Aft, Right
		GF79890-00	FAIRING, Main Gear, LH or RH
		GF79890-01	FAIRING, Nose Wheel Strut, Forward
		GF79892-04	
		GF79892-05	
		GF79892-09	
		GF79892-10	
		K63338-00	
		GF35832-06	





## Piper PA-30 thru PA-34 Series Aircraft

### Tail Surfaces

**Rudder Tip**  
PA-30, PA-39  
P/N GF23595-00  
Fiberglass



**Rudder Tip**  
PA-341-200, -200T  
P/N GF95907-00  
Fiberglass



**Elevator Tips**  
PA-31-300, -310  
PA-31-325, -350  
P/N GF43741-00 (Left)  
P/N GF43741-01 (Right)  
Fiberglass



**Fin Tip**  
PA-31-350  
PA-31P-350  
P/N GF44943-00  
Fiberglass



**Vertical Fin Tip**  
(For Rotating Beacon)  
PA-32-260, -300, -301, -301T  
PA-32R-300, -301, -301T  
P/N GF65345-03  
Fiberglass



**Stabilator Tips**  
PA-30, PA-39  
P/N GF25066

**PA-30**  
P/N GF21556-00

Fits left or right.  
Fiberglass



**Stabilator Tip**  
PA-31-300, -310  
PA-31-325, -350  
P/N GF40364-02  
Fiberglass



**Stabilator Tip**  
PA-34-200, -200T, -220T  
P/N GF95620-07  
Fits left or right.  
Fiberglass



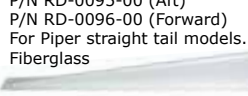
**Stabilator Tip**  
PA-32  
P/N 60-23  
7" deep, not for aircraft with  
12" deep tips. Fits left or  
right. Not for T-tail aircraft.  
ABS Plastic



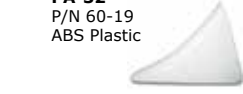
**Stabilator Tip**  
PA-32-260, -300, -301  
PA-32-301T, -301FT, -301XTC  
PA-32S-300  
PA-32R-300, -301(SP)  
PA-32R-301(HP), -301T  
PA32RT-300, -300T  
P/N RD-0094-00  
Fits left or right.  
Fiberglass



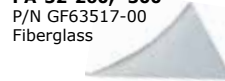
**Dorsal Fins**  
PA-32-260, -300  
PA-32-301, -301T  
PA-32-301FT, -301XTV  
PA-32R-300, -300T  
PA-32R-301(HP), -301T  
P/N RD-0095-00 (Aft)  
P/N RD-0096-00 (Forward)  
For Piper straight tail models.  
Fiberglass



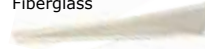
**Dorsal Fin (Forward)**  
PA-32  
P/N 60-19  
ABS Plastic



**Dorsal Fin (Forward)**  
PA-32-260, -300  
P/N GF63517-00  
Fiberglass



**Dorsal Fin (Forward)**  
PA-32-260, -300  
P/N GF78913-00  
Fiberglass



**Dorsal Fin Fairing (Forward)**  
PA-32  
P/N 60-24  
Long, forward dorsal fin fairing.  
35" long forward dorsal fin standard  
to most single engine Piper aircraft.  
Not for T-tail aircraft.  
ABS Plastic



Eligibility continued  
on next page

Model	Serial Number	Part Number	Description
PA-32-260	32-1 thru 32-720060	GF35838-10	Cover, Nose Wheel Strut, Aft
	32-720061 thru 32-7140086	GF37926-03	Cover, Nose Gear Fairing, Fwd
	32-7140085 thru 32-7200000	GF37926-04	Cover, Nose Gear Fairing, Aft
	32-7200001 thru 32-7800000	GF36559-803 <sup>1</sup>	Cover, Nose Gear Strut Fairing, Aft
	32-7800001 thru 32-7800008	GF37891-807	Cover, Nose Gear Strut Fairing, Fwd
PA-32-300	32-40000 thru 32-7140086	GF38700-02 <sup>2</sup>	Cover, Nose Gear Strut Fairing, Fwd
	32-7140087 thru 32-7240000	GF37891-806	Cover, Nose Gear Strut Fairing, Fwd
	32-7240001 thru 32-7840000	GF38700-04 <sup>3</sup>	COVER, Wing Bolt, Left
	32-7840001 thru 32-7940290	GF38700-02 <sup>2</sup>	COVER, Wing Bolt, Right
PA-32-301	3206001 thru 3206060	60-63942-01-80A	FAIRING, Dorsal Fin, Forward
	32-8006002 thru 32-8006116	GF63942-01	FAIRING, Main Gear, LH or RH
	32-8006117 thru 32-8606023	60-19	FAIRING, Main Wheel Left
PA-32-301T	32-8024001 thru 32-8024062	60-24	FAIRING, Main Wheel Right
	32-8024063 thru 32-8424002	K63338-00	FAIRING, Main Wheel Access Panel, Left
PA-32R-300	All	K65203-00	FAIRING, Main Wheel Access Panel, Right
PA-32R-301,R-301T	All	K65203-01	FAIRING, Main Wheel Shell, Left
PA-32RT-300,300T	All	GF79890-02	FAIRING, Main Wheel Shell, Right
PA-34-200,200T,220T	34-7250001 thru 32-7250370	GF79890-03	FAIRING, Main Wheel, Upper, Fwd, Left
		GF79892-04	FAIRING, Main Wheel, Upper, Fwd, Right
		GF79892-05	FAIRING, Main Wheel, Upper, Aft, Right
		GF79892-09	FAIRING, Main Wheel, Upper, Aft, Left
		GF79892-10	FAIRING, Main Wheel, Upper, Aft, Left

<sup>1</sup> W/O Door 6.00 X 6 Tire, 1978 and up

<sup>2</sup> With 5.00 X 5 Tire

<sup>3</sup> Includes PA-32-301 S/Ns 32-8106110, 32-8206050, 32-8306032, 32-8406020 and PA-32-301T S/Ns 32-8124046, 32-8224024, 32-8324016 and 32-8420002.

FAA-PMA Approved

**Piper PA-30 thru PA-34 Series Aircraft**

**Strut and Landing Gear Fairings**

**Main Wheel Strut Fairings (Forward)**

**PA-32-260, -300, -301, -301T**  
P/N GF79892-04 (Left)  
P/N GF79892-05 (Right)



**Main Wheel Strut Fairings (Aft)**

**PA-32-260, -300, -301, -301T**  
P/N GF79892-02 (Left)  
P/N GF79892-09 (Right)



**Main Wheel Access Panels**

**PA-32-260, -300, -301, -301T**  
P/N GF79890-02 (Left)  
P/N GF79890-03 (Right)



**Main Wheel Shell Assemblies**

**PA-32-260, -300, -301, -301T**  
P/N GF79890-00 (Left)  
P/N GF79890-01 (Right)



For PA-32-260 s/ns 32-7800001 and up, and PA-32-300 s/ns 32-7840001 thru 32-7940020, main landing gear fiberglass wheel and strut fairing replacement kit p/n 763 918 must have been installed per Service Letter 862. New fiberglass fairings are identified by camloc fasteners attaching inner and outer fairing halves together. Obsolete cycolac fairings are identified by screws, washers and nuts attaching inner and outer fairing halves together.  
Fiberglass

**Nose Wheel Fairings (6.00 X 6 Tire)**

**PA-32-260, -300, -301FT, -301XTC**  
P/N GF36559-804 (Forward)  
P/N GF36559-803 (Aft)  
Used on aircraft where nose gear fairing **does not** incorporate a door assembly inside of the wheel fairing.  
Fiberglass



**Nose Wheel Fairing Covers (5.00 X 5 Tire)**

**PA-32-301, -301T**  
P/N GF38682-02 (Forward)  
P/N GF38682-03 (Aft)  
Fiberglass



**Nose Wheel Pants (6.00 X 6 Tire)**

**PA-32-260, -300**  
P/N K65331-00



**Main Wheel Pants (6.00 X 6 Tire)**

**PA-32-301, -301T**  
P/N K65203-00 (Left)  
P/N K65203-01 (Right)



Manufactured with high technology resin and cloth for superior weight to strength ratio. Hole locations are dimpled for easy installation. Includes the baffle behind the tire to prevent mud and snow buildup. White primer, ready for paint. Fiberglass

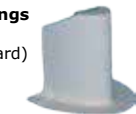
**Nose Wheel Fairing With Door (5.00 X 5 Tire)**

**PA-32-301, -301T**  
P/N GF35838-10  
Used on aircraft where nose gear fairing incorporates a door assembly in the side of the wheel fairing.  
Fiberglass



**Nose Gear Strut Fairings (5.00 X 5 Tire)**

**PA-32-301T**  
P/N GF38700-02 (Forward)  
P/N GF38770-04 (Aft)  
Fiberglass



**Nose Gear Strut Fairings (6.00 X 6 Tire)**

**PA-32-300, -301**  
P/N GF37891-806 (Forward)  
P/N GF37891-807 (Aft)  
Fiberglass



**Nose Wheel Fairing Covers (5.00 X 5 Tire)**

**PA-32-301, -301T**  
P/N GF38682-02 (Forward)  
P/N GF38682-03 (Aft)  
Fiberglass



**Nose Gear Fairing With Door (6.00 X 6 Tire)**

**PA-32-300**  
P/N GF35944-14  
Fiberglass



Superseded P/N	Use P/N
35115-00,10	60-33L-4-80A and 60-33L-6-80A
35115-01,11	60-33R-4-80A and 60-33R-6-80A
35641-00,10,12,14,18,20	60-33L-4-80A and 60-33L-6-80A
35641-01,11,13,15,19,21	60-33R-4-80A and 60-33R-6-80A
36559-03	GF36559-803
36559-804	GF36559-804
36739-02,04,06,08,10,18,22,38,42,44,46,52,53	60-33L-4-80A and 60-33L-6-80A
36739-03,05,07,09,11,19,23,39,43,45,47,54,55	60-33R-4-80A and 60-33R-6-80A
62629-00	RD-0099-00
62629-02	RD-0098-00
62629-03	RD-0097-00
63131-00	60-18
63374-00	K65203-00
63517-00	60-19 or GF63517-00
63584	60-23 or RD-0094-00
63584-00,06,10,14	RD-0094-00
63589-00	RD-0094-00
63942-00	60-63942-00-80A or GF63942-00
63942-01	60-63942-80A or GF63942-01
65224-02,03,04,05,06,07	60-65224-80A
65203-03	K65203-01
65345-03	60-28 or GF65345-03
66822-07	60-31 or RD-0098-00
66822-08	60-30 or RD-0097-00
66822-09	RD-0098-00
66822-10	RD-0097-00
67785-17	60-67785-17-80A
68421-02,03,04,08,10	60-69596-80A
69569-02,03,05,06,12,14	60-69596-80A
78913-04	GF78913-00
79890-04,43	GF79890-00
79890-05,44	GF79890-01
79890-07,45	GF79890-02
79890-08,46	GF79890-03
99035-03	60-27
99519-02	RD-0095-00
99619-02, 99621-02	RD-0096-00
99621-00	60-24 or RD-0096-00

Eligibility continued from previous page

Model	Serial Number	Part Number	Description	FAIRING, Nacelle, Inboard Bottom, LH	FAIRING, Nacelle, Inboard Bottom, RH	FAIRING, Nacelle, Inboard Fwd, LH	FAIRING, Nacelle, Inboard Fwd, RH	FAIRING, Nacelle, Inboard Top, LH	FAIRING, Nacelle, Inboard Top, RH	FAIRING, Nacelle, Outboard, LH	FAIRING, Nacelle, Outboard, RH	Fairing, Nose Wheel, 6.00 X 6 w/o Door	Fairing, Nose Wheel, 6.00 X 6 w/Door	FAIRING, Nose Wheel	FAIRING, Rudder Tip	FAIRING, Tailcone, Lower	FAIRING, Tailcone, Upper	FIN, Dorsal Aft	FIN, Dorsal Forward	MOULDING, Wing Root	Nose Bowl Assembly	TAILCONE, Lower	TAILCONE, Upper	TAIL STINGER	
PA-31, 31-300,325,350	All	GF42455-04	FAIRING, Nacelle, Inboard Bottom, LH	•	•	•	•	•	•	•	•														
PA-31P, 31P-350, 31T, PA-31T1,T2,T3	All	GF42455-05	FAIRING, Nacelle, Inboard Bottom, RH	•	•	•	•	•	•	•	•														
PA-32-260	32-1 thru 32-720060																								
	32-720061 thru 32-7140086																								
	32-7140085 thru 32-7800000																								
	32-7800001 and On																								
PA-32-300	32-40000 thru 32-7240000																								
	32-7240001 thru 32-7940290																								
PA-32-301,301T	All																								
PA-32-301FT, PA-32-301XTC	All																								
PA-32R-300	All																								
PA-32R-301,301T, R-301T	All																								
PA-32RT-300,300T	All																								
PA-32S-300	All																								
PA-34-200,200T	All																								
PA-34-220T	3433001 thru 3448037																								
PA-34-220T	3448038 thru 34-8633031																								



Piper PA-30 thru PA-34 Series Aircraft

Wings

Nacelle Fairings

PA-31-300, -325, -350  
 P/N GF42426-00 (Outboard Left)  
 P/N GF42426-01 (Outboard Right)  
 P/N GF42455-00 (Inboard Left Top)  
 P/N GF42455-01 (Inboard Right Top)  
 P/N GF42455-02 (Inboard Left Forward)  
 P/N GF42455-03 (Inboard Right Forward)  
 P/N GF42455-04 (Inboard Left Bottom)  
 P/N GF42455-05 (Inboard Right Bottom)  
 Fiberglass

Wing Bolt Covers  
 PA-32, PA-34

P/N GF63942-00 (Left)  
 P/N GF63942-01 (Right)  
 Fiberglass

Wing Tips  
 PA-32

P/N 60-63942-00-80A (Left)  
 P/N 60-63942-01-80A (Right)  
 Kit P/N 60-63942-80A includes both left and right. ABS Plastic  
 Heavy duty under wing spar bolt covers.

Wing Tips  
 (With Reco Light Cut Outs)  
 PA-31-350

P/N GF55802-12 (Left)  
 P/N GF55802-13 (Right)  
 Used if wing tip incorporates both a navigation and strobe light assembly and a recognition light assembly.  
 Fiberglass

Wing Tips  
 PA-34-200, -200T, -220T

P/N GF62090-00 (Left)  
 P/N GF62090-01 (Right)  
 Fiberglass



Leading Edge  
 PA-31-300, -310, -325, -350

P/N GF43786-00  
 Fiberglass

Wing Tips  
 PA-32

P/N 60-33L-4-80A (Left)  
 P/N 60-33R-4-80A (Right)  
 Kit P/N 60-33-4-80A includes both left and right. Piper taper wing aircraft with 4" nav light pad for strobes.

Wing Tips  
 PA-34-200, -200T, -220T

P/N 60-33L-6-80A (Left)  
 P/N 60-33R-6-80A (Right)  
 Kit P/N 60-33-6-80A includes both left and right. Piper taper wing aircraft with 6" nav light pad for strobes.  
 ABS Plastic

Wing Tips  
 PA-34-200, -200T, -220T

P/N 60-33L-4-80A (Left)  
 P/N 60-33R-4-80A (Right)  
 Kit P/N 60-33-4-80A includes both left and right. Piper taper wing aircraft with 4" nav light pad for strobes.  
 ABS Plastic

Tailcone Fairings

Tailcone Upper  
 PA-32-260, -300

PA-32-301, -301T  
 PA-32R-300, -300T  
 PA-32R-301, -301T  
 P/N RD-0097-00  
 Not for T-tail aircraft.  
 Fiberglass

Tailcone Lower  
 PA-32-260, -300

PA-32-301, -301T  
 PA-32R-300, -300T  
 PA-32R-301, -301T  
 P/N RD-0098-00  
 Not for T-tail aircraft.  
 Fiberglass

Tailcone Assembly  
 (Upper and Lower)

PA-32-260, -300, -301, -301T  
 PA-32R-300, -300T, -301, -301T  
 P/N RD-0099-00  
 Pre-assembled with nut plates and stainless steel hardware.  
 Not for T-tail aircraft.  
 Fiberglass

Tailcone Upper  
 PA-34-200

PA-34-200T  
 PA-34-220T  
 P/N GF96338-04  
 Fiberglass

Tailcone Lower  
 PA-34-200

PA-34-200T  
 PA-34-220T  
 P/N GF96338-08  
 Fiberglass

Tailcones  
 PA-32

P/N 60-30 (Upper)  
 P/N 60-31 (Lower)  
 One upper and one lower part together constitute one tailcone. Holes for attachment hardware must be drilled by the installer. Not for T-tail aircraft. Hardware not included.  
 ABS Plastic

Interior

Flap Handle Cover  
 PA-32

P/N 60-69596-80A  
 No labeling or lenses are provided.  
 Trimmed and ready for installation.  
 ABS Plastic

Eligibility continued from previous page

Model	Serial Number	Part Number	Description	TIP, Dorsal Fairing	TIP, Elevator, Leading Edge	TIP, Elevator, Right	TIP, Elevator, Left	TIP, Fin	TIP, Rudder	TIP, Stabilator	TIP, Stabilizer, Left or Right	TIP, Vertical Fin, Rotating Beacon	TIP, Wing, Left	TIP, Wing, Right	TIP, Wing, Left, with Reco Light	TIP, Wing, Right, with Reco Light	TIP, Wing, Left, 4" Nav Pad Only	TIP, Wing, Right, 4" Nav Pad Only	TIP, Wing, Left, 4" Nav Pad Std	TIP, Wing, Right, 4" Nav Pad Std	TIP, Wing, Left, 6" Nav Pad Std	TIP, Wing, Right, 6" Nav Pad Std
PA-30	30-2thru 30-1744 except 30-1717 30-1717, 30-1745 thru 30-2000	GF63517-00 GF43786-00 GF43741-01 GF43741-00 GF44943-00 GF23595-00 K40363-12 60-23 GF25066 GF21556-00 GF40364-02 RD-0094-00 GF95620-07 GF65345-03 60-33L-4-80A 60-33L-6-80A GF35115-10 60-33R-4-80A 60-33R-6-80A GF35115-11																				
PA-31-300	31-2 thru 31-4 31-5 thru 31-8312019																					
PA-31-325	All																					
PA-31-350	31-5001 thru 31-7305052 31-7305053 thru 31-7852000 31-7852001 thru 31-8553002																					
PA-31P-350	All																					
PA-32-260	32-1 thru 32-720060 32-720061 thru 32-7140086 32-7140085 thru 32-7800008																					
PA-32-300	All																					
PA-32-301	3206001 thru 3206060 32-8006002 thru 32-8106110 32-8106111 thru 32-8606023																					
PA-32-301FT, PA-32-301XTC	All																					
PA-32-301T	32-8024001 thru 32-8124046 32-8124047 thru 32-8424002																					
PA-32R-300	All																					
PA-32R-301	3213001 thru 3246999 32R-8013001 thru 32R-8113133 32R-8113134 thru 32R-8613006 3229001 thru 3257999																					
PA-32R-301T	32R-8029001 thru 32R-8129124 32R-8129125 thru 32R-8629008																					
PA-34-200	34-7250001 thru 32-7250370 32-7250371 thru 32-7450220																					
PA-34-200T	All																					
PA-34-220T	All																					

Refer to above eligibility for model PA32R-301 except: P/Ns GF35115-10 and GF35115-11 are approved for S/N 3213098, but not approved for S/N 3213029.

**Piper PA-38 thru PA-60 Series Aircraft**



**High quality direct replacements**

Wing tips, tail surface fairings and main gear fairings in fiberglass.

**SAVE!!**

Superseded P/N	Use P/N
63584-00,06,10,14	RD-0094-00
63589-00	RD-0094-00
77613-02	GF77613-00
78913-04	GF78913-00

**Wings**

**Wing Tips**

**PA-38-112**  
P/N GF77327-02 (Left)  
P/N GF77327-04 (Right)  
Fiberglass



**Wing Tips**

**(Long Tip, Short Wing)**  
**PA-60-601, -601P**  
P/N GF200038-901 (Left)  
P/N GF200038-902 (Right)  
Fiberglass



**Wing Tips**

**(Short Tip, Long Wing)**  
**PA-60-601, -601P**  
P/N GF200102-901 (Left)  
P/N GF200102-902 (Right)  
Fiberglass



**Wing Bolt Covers**

**PA-44**  
P/N GF63942-00 (Left)  
P/N GF63942-01 (Right)  
Fiberglass



P/N 60-63942-00-80A (Left)  
P/N 60-63942-01-80A (Right)  
Kit P/N 60-63942-80A includes both left and right. ABS Plastic

Heavy duty under wing spar bolt covers.

**Nacelle Tip (Aft)**

P/N GF86298-02  
Fiberglass



**Tail Surfaces**

**Stabilator Tip**

**PA-39**  
P/N GF25066  
Fits left or right.  
Fiberglass



**Stabilator Tip**

**PA-44-180, -180T**  
P/N RD-0094-00  
Fits left or right.  
Fiberglass



**Dorsal Fin (Forward)**

**P-44**  
P/N GF78913-00  
Fiberglass



**Dorsal Fins**

**PA-38-112**  
P/N GF77606-03 (Upper Forward)  
P/N GF77606-08 (Upper Aft)  
Fiberglass



**Dorsal Fin**

**PA-38-112**  
P/N GF77607-00  
Fiberglass



**Vertical Fin Tip**

**(Without Rotating Beacon)**  
**PA-60-600, -601, -601P, -602P**  
P/N GF220021-505  
For aircraft without a rotating beacon.  
Fiberglass



**Vertical Fin Tip**

**(With Beacon Cut-out)**  
**PA-60-600, -601, -601P, -602P**  
P/N GF220021-913  
For aircraft with a rotating beacon.  
Fiberglass



**Horizontal Tip**

**PA-60**  
P/N GF220021-903  
Fits left or right.  
Fiberglass



**Rudder Fairing (Lower)**

**PA-38-112**  
P/N GF77613-00  
Fiberglass



Model	S/N	Part Number	Description
PA-38-112	All	60-63942-00-80A	COVER, Wing Bolt, Left
		GF63942-00	
		60-63942-01-80A	COVER, Wing Bolt, Right
		GF63942-01	
		GF77607-00	FAIRING, Dorsal Fin
		K78913-07	FAIRING, Dorsal Fin, Aft
		GF77606-03	FAIRING, Dorsal, Upper, Fwd
		GF77606-08	FAIRING, Dorsal, Upper, Aft
		GF77328-02	FAIRING, Main Gear, Left
		GF77328-03	FAIRING, Main Gear, Right
		GF77613-00	FAIRING, Rudder, Lower
		K36721-003	FAIRING, Tail Cone Tip, w/o receptacle
		K86597-02	FAIRING, Tail Cone Tip, with receptacle
		GF78913-00	FIN, Dorsal Forward
		k65773-00	MOULDING, Wing Root
		GF220021-903	TIP, Horizontal, Left or Right
		GF86298-02	TIP, Nacelle, Aft
		GF23595-00	TIP, Rudder
		GF25066	TIP, Stabilizer, Left or Right
		RD-0094-00	TIP, Vertical, w/o Beacon
		GF220021-505	TIP, Vertical, with Beacon
		GF220021-913	TIP, Wing, Left
		GF77327-02	TIP, Wing, Right
		GF77327-04	TIP, Wing, Left, Long Tip, Short Wing
		GF200038-901	TIP, Wing, Right, Long Tip, Short Wing
		GF200038-902	TIP, Wing, Left, Short Tip, Long Wing
		GF200102-901	TIP, Wing, Right, Long Tip, Short Wing
		GF200102-902	TIP, Wing, Left, Long Tip, Short Wing

**Main Gear Fairings**

**Main Gear Wing Fairings**

**PA-38-112**  
P/N GF77328-02 (Left)  
P/N GF77328-03 (Right)  
Fiberglass



**Cirrus SR20-SR22 Series Aircraft**

**Fairing, Nose Gear (Wheel Pant) P/N K15312-001**

**SR20** S/Ns 1005 thru 1430, 1476 thru 1885 **SR22** S/Ns 0528 thru 2437

**Nose Gear Landing (Wheel Pant) P/N K26873-001**

**SR20** S/Ns 1886 and On **SR22** S/Ns 2438 and On **SR22T** S/N All



**New!**

## Beechcraft Aircraft

### Wing Tips Tail Surfaces and Miscellaneous

**Wing Tips**

**A23-19, 19A, M19A, B19, 23, A23, A23A, B23, C23, A23-24, A24, A24R, B24R, C24R**  
 P/N GF169-1100-00 (Left)  
 P/N GF169-1100-01 (Right)  
 Fiberglass



**Wing Tips 76**

P/N GF105-1010-00 (Left)  
 P/N GF105-1010-01 (Right)  
 Fiberglass



**Storm Window Seal (Frameless)**

**33, 35, 36, 55, 58, 95**  
 P/N ADS1200-17  
 Custom extruded, conforms to the sealing surface. Includes window seal, seal lube, installation instructions.  
 Fiberglass

**Stabilizer Tips**

Fiberglass



**Dorsal Saddle**

**B55, E55, 58**  
 P/N GF96-4415-00  
 Fiberglass



**Wing Tips 77**

P/N GF108-1700-00 (Left)  
 P/N GF108-1700-01 (Right)  
 Fiberglass



**Tail Cone (Two Piece)**

**A23-19, 19A, M19A, B19, 23, A23, A23A, B23, C23, A23-24, A24**  
 P/N GF169-4411-S  
 Fiberglass



Model	Serial Number	Part Number	Description	ADS1200-17	GF105-1010-00	GF108-1700-00	GF169-1100-00	GF105-1010-01	GF108-1700-01	GF169-1100-01	GF169-420028-11	GF169-440013-11	K33-440011-27	K33-600011-1	K33-600012-3	GF169-910013-157	GF169-4411-S	GF169-620001-27	GF169-620000-113	GF169-620001-28	GF169-620000-114	K169-640000-97	GF96110010-17	GF96110010-19	GF96110010-21	GF96110010-23	GF96-4415-00		
19A	All		SEAL (Storm Window)	•																									
A23-19	All		TIP, Wing, Left	•																									
B19	All		TIP, Wing, Right	•																									
M19A	All		DRAIN COVER, Fuel Sump	•																									
23	M-2 thru M-554 except M-3		FAIRING, Dorsal	•																									
	M-3, M-555 thru M-900		FAIRING, Dorsal Fin	•																									
A23	M-555 and On		FAIRING, Lower Cowl	•																									
A23A	All		TAIL CONE	•																									
B23	All		TIP, Stabilizer Left	•																									
C23	All		TIP, Stabilizer Right	•																									
A23-24, A24R, B24R	All		TIP, Vertical Stabilizer	•																									
A23-A24	All		FAIRING, Engine Nacelle, Outboard, LH	•																									
C24R	All		FAIRING, Engine Nacelle, Outboard, RH	•																									
35-33, 35-A33, C33,C33A	All		FAIRING, Engine Nacelle, Inboard, LH	•																									
35-C33	CD-814 thru CD-1026		FAIRING, Engine Nacelle, Inboard, RH	•																									
35-C33A	CE-1 thru CE-25		SADDLE, Dorsal	•																									
35-B33	All			•																									
E33,E33A, E33C, F33,F33A,C, G33	All			•																									
35, 35R, A35,B35,C35,D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, V35,V35A,V35B	All			•																									
36, A36, A36TC, B36TC, G36	All			•																									
50, B50, C50, D50, D50A,B,C,E, E50, F50, G50, H50, J50	All			•																									
95-55	All			•																									
95-A55	TC-191 thru TC-349			•																									
	TC-350, TC-371			•																									
	TC-351 thru TC-370, TC-372 thru TC-379			•																									
95-B55	TC-371			•																									
	TC-372 thru TC-501			•																									
	TC-502 thru TC-1392			•																									
	TC-1393 thru TC-1396			•																									
	TC-1397 thru TC-2456			•																									
95-B55A	TC-371			•																									
	TC-372 thru TC-501			•																									
	TC-502 thru TC-1392			•																									
	TC-1393 thru TC-1396			•																									
	TC-1397 thru TC-2456			•																									
95-B55B	All			•																									
95-C55,95-C55A (Except S/N TE-50	TE-1 thru TE-451			•																									
D55,D55A	All			•																									
E55	All			•																									
E55A	All			•																									
56TC, A56TC	All			•																									
58	All			•																									
58TC	All			•																									
58P	All			•																									
G58	All			•																									
76	All			•																									
77	All			•																									
95, B95, B95A, D95A, E95	All			•																									



**Beechcraft**

Description	Part Number	Model
Bearing, Main Strut Upper	CA50-810326	1900,1900C,1900D,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300,300LW,B300,B300C
Bearing, Nose Gear	CA99-820099	C90,E90,F90,99,99A,A65,70,B80,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200, B200C, B200CT,B200T
Bolt, Main Gear	CA101-810090-1	1900,1900C,1900D
Bolt	CA101-810089-1	1900,1900C,1900D,F90,C99,200,200T,200C,200CT,B200,B200C,B200CT,B200T
Bolt	CA101-810090-3	1900,1900C,F90,C99,200,200T,200C,200CT,B200,B200C,B200CT,B200T
Bolt, Main Gear Drag Brace	CA101-810145-1	300,300LW,B300,B300C
Bolt, Main Gear Drag Brace	CA101-810146-1	300,300LW,B300,B300C
Bolt, Nose Gear	CA90-820011-1	C90,E90,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C, B200CT, B200T, 1900, 1900C,1900D
Bushing	CA101-810014-3	F90,99,99A,A99A,B99,C99,100,A100,B100,200,200C,B200,B200C,B200CT,B200T
Bushing	CA105739X-YN1437	1900,1900C,1900D
Bushing	CA105740X-YK0563	99,99A,A99A,B99
Bushing	CA105740X-YN0520	F90,99,99A,A99A,B99,C99,A100,B100
Bushing	CA115-610019	99,99A,A99A,B99,C99,100,A100,B100
Bushing	CA115-810066-3	F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT, B200T,300,300LW,B300, B300C,1900,1900C,1900D
Bushing	CA50-524476-1	65,80,A80,88,90,A90,B90,C90,E90
Bushing	CA50-524476-3	65,80,A80,88,90,A90,B90,C90,E90
Bushing	CA99-810064-1	A100,B100,100,B99,200,200T,200C,200CT,F90
Bushing	CA99-810064-3	1900,1900C,1900D,F90,C99,B200,B200C,B200CT,B200T,300,300LW,B300,B300C
Bushing	NAS77-10-78	1900,1900C
Bushing, Drag Link	CA90-820010-1	C90
Bushing, Gear Door	CA105740X-ZU0260	F90,99,99A,A99,A99A,B99,C99,100,A100,B100,200,200C,B200,B200C
Bushing, Landing Gear	CA99-810060-1	F90,99,99A,A99A,B99,C99,A100,B100
Bushing, Landing Gear	CA101-810014-1	F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200T,200CT
Bushing, Main Drag Link Center	CA114-810038-1	1900,1900C,1900D
Bushing, Main Drag Link in Gear	CA114-810042-1	1900,1900C,1900D
Bushing, Main Drag Link in Gear	CA114-810049-3	1900,1900C,1900D
Bushing, Main Drag Link Center	CA99-810066-1	1900,1900C,1900D,C90,E90,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT, B200T,300,300LW,B300,B300C
Bushing, Main Gear	CA115-810064-1	F90,99,99A,A99A,B99,A100,B100,200,200T,200C
Bushing, Main Torque Link Center	CA105740X-YA1625	1900,1900C,1900D,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300,300LW,B300,B300C
Bushing, Main Torque Link Center	CA105740X-YN0677	1900,1900C,1900D,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300,300LW,B300,B300C
Bushing, Main Torque Link in Gear	CA101-810024-3	1900C,1900D
Bushing, Nose Attach Lug	CA114-820113-1	1900,1900C,1900D
Bushing, Nose Steering	CA105740X-ZV0312	A90,B90,C90,C90A,E90,F90,99,99A,A99A,B99,C99,200,200T,200CT,A200,A200C,B200,B200C,B200CT,B200T
Bushing, Nose Torque Link Center	CA105740X-YA0630	1900,1900C,1900D,90,A90,B90,C90,E90,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200C, 200T,200CT,B200, B200T,B200C,B200CT,300,300LW,B300,B300C
Bushing, Nose Torque Link Center	CA105740X-YN0625	1900,1900C,1900D,300,300LW,B300,B300C,90,A90,B90,C90,C99,E90,F90,99,99A,A99A,B99, 100,A100,B100, 200,200T,200C,200CT,B200,B200C,B200CT,B200T
Bushing, Nose Torque Link Center	CA90-810019-1	C90,E90,F90,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300,300LW,B300, B300C,1900,1900C,1900D
Bushing Nose Upper Torque Link	CA50-810034	1900,1900C,1900D,300,300LW,B300,B300C,90,99,99A,A90,A99A,B90,B99,C90,C99,E90,F90,100,A100, B100, 200,200T,200C,200CT,B200,B200C,B200CT,B200T
Bushing, Steering Roller	CA114-820062-1	1900,1900C,1900D
Bushing, Torque Link	CA45-815013	33,35,36,55,58
Bushing, Torque Link	CA101-810024-5	1900C,1900D
Bushing, Torque Link	CA105740X-YD0160	99,99A,A99A,B99,C99
Carbon Block	CA3026	A90,B90,C90,C90A,E90,F90,99,99A,A99A,B99,C99,100,A100,200,200T,200C,200CT,B200,B200C,B200CT,B200T, 300,300LW,B300,B300C,1900,1900C,1900D
Carbon Block Assembly	CA3044	A90,B90,C90,E90,F90,99,99A,A99A,B99,C90A,C99,100,A100,200,200T,200C,200CT,B200,B200C,B200CT, B200T, 300,300LW,B300,B300C,1900,1900C,1900D
Drag Leg Hook Pins	CA50-810343-5 CA50-810343-7	F90 S/N LA-2 & On, 99,99A,A99A,B99,C99 S/N U-1 thru U-49,U-51 thru U-164,100,A100,B100 200 S/N BB-2 thru BB-733,BB-735 thru BB-792,BB-794 thru BB-828,BB-830 thru BB-853, BB-871 thru BB-873, BB-892,BB893 and BB-912,200T S/N BT-1 thru BT-22, 200C S/N BL-1 thru BL-200CT S/N BN-1, B200 S/N BB-734,BB-793,BB-829,BB-854 thru BB-870, BB-874 B-891, BB-894 thru BB-911, BB-913 thru BB-1157, BB-1159 thru BB-1166, BB1168 thru BB-1192, B200T S/N BT-23 thru BT-27, BT29,BT30,B200C S/N BL-37 thru BL-72, B200CT S/N BN-2-BN-4
Filter & Gasket Kit	CA42370	55,A55,B55,C55,D55,E55,56TC,A56TC,58,58P,58TC,60,A60,B60,A65,70,B80,E95,C90,E90,F90,100,A100,200,200T, 200C,99,99A,A99A,B99,C99
Fuel Pump	CA476284E-1	55,A55,B55,C55,D55,E55,56TC,A56TC,58,58P,58TC,60,A60,B60,A65,70,B80,E95,C90,E90,F90,100,A100,200,200T, 200C,99,99A,A99A,B99,C99
Nose Attach Lug	CA114-820113-1	1900,1900C,1900D
Seal, Drain Valve	CACCA1269	A55,B55,B55A,C55,C55A,D55,D55A,E55,E55A,58,58A,95-55 (not recommended for use with autogas)
Seal, Drain Valve	CACCA1319	A55,B55,B55A,C55,C55A,D55,D55A,E55,E55A,58,58A,95-55 (not recommended for use with autogas)
Seal, Fuel Cap	CA38241	99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT ,B200T, B300, B300C, 1900, 1900C,1900D
Seal, Fuel Cap	CA457-98	E90,F90,99,99A,A99A,B99,C99,100,A100,B100,B200,B200C,B200CT,B200T,200,200T,200C,200CT
Seat Foot	CA100-530448-5	C90,C90A,C90(SE),E90,F90,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT
Seat Foot	CA100-530448-7	C90,C90A,E90,F90,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT
Seat Foot	CA50-534436-5	65,80,A80,88,90,A90,99,99A,A99A,B90,B99,C99,100,A100,B100





## Beechcraft Continued

Description	Part Number	Model
Stall Switch Assembly	CA450-742N	35-33,35-A33,35-B33,35-C33,35-C33A,E33,E33A,F33,F33A,F33C,G33,H35,J35,K35,M35,N35,P35,S35,V35,V35A,V35B,36,A36,C35,D35,E35,F35,G35
Static Discharger	ESD-3	Various Models - No FAA-PMA Approval
Switch, Mic	CA601-4300	F90,C99,100,A100,B100,200,200T,200C,200CT,300,300LW,B300,B300C
Switch, Mic	CA99-340253-1	1900,1900C,B200,B200C,B200CT,B200T
Torque Link Pin	CA101-810025-1	200, 300 and 1900 Series
Upper Bearing, Main Strut	CA50-810326	F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300LW,B300,B300C,300,1900,1900C,1900D
Washer	CA50-105000-3	C90,B200,B200C,B200T,300LW,300,B300,B300C,1900,1900C
Washer, Thrust	CA115-810074	F90,99,99A,A99A,B99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT,B200T
Wiper Blade	CA50-384082	A65,70,B80,C90,E90,F90,99,99A,A99A,B99,C99,100,A100,B100,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300LW,B300,B300C,300,1900,1900C,1900D
Yoke	CA3025	A90,B90,C90,E90,F90,99,99A,A99A,B99,C90A,C99,100,A100,200,200T,200C,200CT,B200,B200C,B200CT,B200T,300,300LW,B300,B300C,1900,1900C,1900D

## Cessna

Gasket, Fuel Bowl	CAB3-11-1	310,320,335,336,337,340,401,402,404,411,414,421
Pump, Fuel/Alcohol	CA6508092-1A	310Q,310R,335,340,340A,401B,402B,402C,404,414,414A,421B,425,441,525,560,650
Seal, Fuel Cap	CA38241	525,650,680,750

## Dehavilland

Carbon Block Assy	CA4731	HC-6
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## Embraer

Back up Ring	CABDS3115-026C	120
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## Lear

Bolt, Main Gear	CA2341114-3	24,25,31,35,36,55,60
Bushing	CA2341120-1	23,24,25,28,29,31,35,36,55,60
Bushing	CA2341127-1	23,24,25,28,29,31,35,36,55,60

## McCauley Propellers

Carbon Block	CAB5121	This part number is eligible on all make & model aircraft with the following propellers installed: 3GFR34C701,702,703,4HFR34C754,762,766,768,771,4JFR34C758,5JFR36C1003
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## Mooney

Seal, Fuel Cap	CA38241	M20C,D,E,F,G,J
Transducer, Fuel Pressure	CA880007-501	M20J
Transducer, Oil Pressure	CA880008-501	M20J

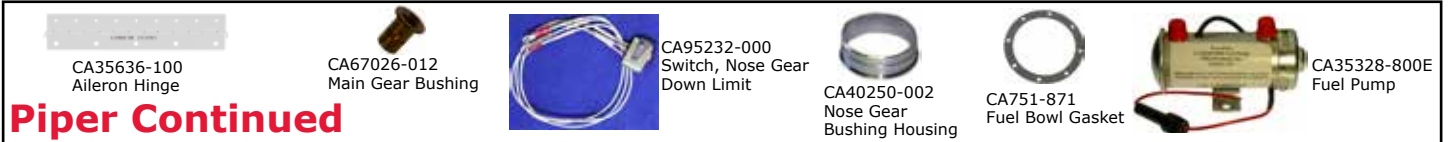
## Piper

Aileron Rod	CA62766-000	PA28-140,150,160,180,235, PA28R-180,200
Barrel, Trim	CA63530-100	PA28 Series, PA32-260,300,301,301T,PA32R-300,301,301T PA28-201T S/N 28-7921001 to 28-7921095
Barrel, Trim	CA96596-002	PA34-200,200T,220T
Bearing	CA67026-011	PA28R-200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA44-180,180T
Bearing, Flap	CA452-387	PA28,PA28-140,150,151,160,161,180,181,235,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA44-180,PA46-310P,350P
Bearing, Main Gear	CA452-575	PA24-180,250,260,400,PA28R-180,200,201,201T,PA28RT-201,201T,PA30,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA39,PA44-180
Bearing, Rod End	CA452-334A	PA28-140,150,151,160,161,180,181,235,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA34-200,200T,220T,PA44-180,PA46-310P,350P
Bearing, Rod End	CA452-335A	PA23-150,160,235,250,PA28-140,150,151,160,161,180,181,235,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA31P,PA31P-350,PA31T1,2,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA34-200,200T,220T,PA42,PA42-720,1000,PA44-180,PA46-310,350P
Bearing, Rod End	CA452-336A	PA28-140,150,151,160,161,180,181,235,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA34-200,200T,220T,PA44-180
Bearing, Rod End	CA452-368	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200,200T
Bearing, Rod End	CA452-412	PA24-180,250,260,400,PA31-300,310,325,350,PA42,PA42-720,1000,PA31P-350,PA31P,PA31T,1,2,PA30,PA31-350-T1020,PA39,PA46-301P
Bearing, Rod End	CA452-439	PA23-235,250,250(6),PA28RT-201,201T,PA31-300,310,325,350,PA31-350-T1020,PA31T-1,2,PA31P,PA31P-350,PA32RT,PA42,PA42-720,1000,PA44-180
Bearing, Rod End	CA452-860A	PA46-310P,350P
Bearing, Rod End	CA452-584	PA28-151,161,PA28R-180,200,201,201T,PA32R-300,301,301T,PA32RT-300T,PA34-200T,220T,PA36-285,300,375,PA44-180



**Piper**

Description	Part Number	Model
Bearing, Stabilator Hinge	CA452-394	PA28-151,161,181,236,201T,PA28R-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T
Bearing, Stabilator Hinge	CA452-538	PA28RT-201,201T,PA32RT,PA34-200,200T,220T,PA44-180
Bulkhead, Spinner Forward	W35323-012	PA28-151
Bulkhead, Spinner Rear	W587-330	PA28-151
Bulkhead Spinner Forward	CA87325-010	PA28-161
Bumper, Nose Gear Torque Link Ext	CA79072-000	PA28-140,150,151,160,161,180,181,235,236,PA32-260,300,301,301T
Bushing, Main Gear Torque Link	CA20737-040	PA31-300,325,350,PA31-350-T1020,PA31P,PA31P-,350,PA31T,1,2,PA42,PA42-720,1000
Bushing, Nose Gear Torque Link Lower	CA453-903	PA31P-350
Bushing, Main Gear Retract Truss Actuator Attachment	CA63900-089	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200T,220T,PA44-180
Bushing, Outboard Flap Track	CA86102-104	PA31-300,310,325,350,PA31P,PA31P-350,PA31T,1,2
Bushing, Center Flap Track	CA86102-105	PA31-300,310,325,350,PA31P,PA31P-350,PA31T,1,2
Bushing, Inboard Flap Track	CA86102-106	PA31-300,310,325,350,PA31P,PA31P-350,PA31T,1,2
Bushing, Aileron Center Hinge	CA95061-108	PA28-151,161
Bushing, Nose Gear Torque Link Upper	NAS75-5-011	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-T1040,PA42-720,1000
Bushing, Main Gear Torque Link Upper	NAS75-6-011	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T,1,2,3-T1040,PA42-720,1000
Bushing, Main Gear Torque Link Center	NAS75-7-011	PA31-300,PA31T-1,2,3-T1040,PA31P,PA31P-350,PA31-350-T1020,PA42-720,1000
Bushing, Nose Gear Retract Brace Upper Attach	NAS75-7-014	PA31
Bushing, Stabilator Trim Linkage	NAS76A3-004	PA34-200,200T,220T
Bushing, Stabilator Trim Linkage	NAS76A3-019	PA34-200,200T,220T
Bushing, Stabilator Trim Linkage	NAS76A3-023	PA34-200,200T,220T
Bushing, Main Gear Attach Trunnion	NAS77-10-094	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T-1,2,3-T1040
Bushing, Main Gear Retract Brace Upper Attach	NAS77-18-050	PA31P-350,PA42-720,1000
Bushing, Nose Gear Torque Link Center	NAS77-4-042	PA31T-1,2,3-T1040,PA31P,PA31P-350,PA31-350-T1020,PA42-720,1000
Bushing, Elevator Tab Hinge Assy	NAS77-5-019	PA31-300,350,T1020,PA31P-350,PA31T-1,2,3-T1040
Bushing, Nose Gear Torque Link Upper	NAS77-5-042	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T,1,2,3-T1040,PA42-720,1000
Bushing, Main Gear Torque Link Center	NAS77-7-035	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-T1040,PA42-720,1000
Bushing, Nose Gear Retract Link to Brace Attachment	NAS77-7-038	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T,1,2,3-T1040,PA42-720,1000
Bushing, Nose Gear Retract Brace Upper Attach	NAS77-7-040	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T,1,2,3-T1040,PA42-720,1000
Bushing, Nose Gear Retract Link to Brace Attach	NAS77-7-068	PA31-300,PA31-350,PA31-350-T1020,PA31P-350,PA31T,1,2,3-T1040,PA42-720,1000
Bushing, Main Gear Retract Brace Upper Attach	NAS77-8-038	PA31P-350
Bushing, Main Gear, Link to Strut Attach	NAS77-8-044	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T-1
Bushing, Main Gear Retract Link to Brace Attach	NAS77-8-072	PA31P-350
Bushing, Main Gear Retract Brace Upper Attach	NAS77-8-084	PA31-300,PA31-350,PA31-350-T1020,PA31P,PA31P-350,PA31T-1
Bushing, Cabin Door Mechanism	CA20737-044	PA31-300,310,325,350,PA31-350-T1020
Bushing, Cabin Door Mechanism	CA41413-041	PA31-300,310,325,350,PA31-350-T1020
Bushing, Flap Hinge, Center and Outboard	CA63900-019	PA28-140,150,160,180,235,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA44-180
Bushing, Flap Track Inboard, Outboard, Center	CA41413-005	PA31-300,310,350,PA31P,PA31P-350,PA31T-1,2
Bushing, Main Gear Housing Attach	CA20737-023	PA31-300,310,325,350,PA31-350-T1020,PA31P,PA31P-350,PA31T,1,2
Bushing, Main Gear Retract Brace Upper Attach	CA14843-016	PA24-180,250,260,400,PA28R-180,200,201,201T,PA30,PA32R-301,301T,PA32-300,PA32RT,PA34-200,200T,PA39
Bushing, Nose Gear Retract Link to Brace Attach	CA14843-018	PA24-180,250,260,400,PA30,PA39
Bushing, Main Gear Side Brace Stud Brace Attach	CA65003-041	PA28RT-201,201T,PA32R-301,301T,PA34-200,200T,PA44-180
Bushing, Main Gear Brace to Link Attach	CA65003-044	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200,200T,PA44
Bushing, Main Gear Side Brace Stud to Wing Attach	CA67026-012	PA34-200T,PA44-180
Bushing, Main Gear Torque Link Lower	CA43256-002	PA31P,PA31P-350,PA31-300,310,325,350,PA31-350-T1020,PA31T,1,2,PA42-720,1000,PA42
Bushing, Main Gear Housing Attach	CA43256-005	PA31P-350,PA31-300,310,325,350,PA31-350-T1020,PA31T,1,2
Bushing, Nose Wheel Steering Arm Inner	CA63900-109	PA28R-180,200,201,PA28RT-201,PA32R-300,301,301T,PA32RT
Bushing, Nose Wheel Steering Arm Outer	CA63900-122	PA28R-180,200,201,PA28RT-201,PA32R-300,301,301T,PA32RT
Bushing, Nose Gear Retract Link to Housing Attach	CA65003-046	PA28R-180,200
Bushing, Nose Gear Retract Brace RH Upper Attach	CA95061-133	PA32R-300,301,301T,PA32RT-300,300T
Bushing, Nose Gear Retract Brace Upper Attach	CA65003-045	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA44-180
Bushing, Nose Gear Housing Top and Bottom	CA40250-002	PA31-300,310,325,350,PA31-350-T1020,PA31P,PA31P-350,PA31T-1,2,PA42,PA42-720,1000
Bushing, Main Gear Torque Link Upper	CA43256-006	PA23-235,250,250(6),PA31P, PA31P-350,PA31-300,310,325,350,PA31-350-T1020,PA31T-1,2,3,T1040,PA42,PA42-720,1000
Bushing, Nose Gear Retract Idler to Link Attach	CA20737-032	PA31-300,310,325,350,PA31P,PA31P-350,PA31T-1,2,PA42,PA42-720,1000
Bushing, Seat Roller	CA41413-038	PA23-235,250,PA24-260,PA25-150,235,PA31-300,310,325,350,T1020,PA31P,PA31P-350,PA31T-1,2,PA30,PA39,PA42-720,1000
Bushing, Nose Gear Steering Arm Outer	CA14976-102	PA30,PA31-300,310,325,350,PA31-350-T1020,PA39
Bushing, Main Gear Torque Link Spacer Upper & Lower	CA63310-000	PA28-140,150,151,160,161,180,181,235,236,201T,PA32-260,300,301,301T
Bushing, Main or Nose Torque Link Lower Attach	CA67026-007	PA28R-180,200,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA44-180,PA46-310P,350P
Bushing, Nose Gear Torque Link Center	CA77780-005	PA38
Capacitor Assembly, Alternator Output	CA63897-006	PA28-140,151,180,181,R-200,RT-201,RT-201T, PA32-260,R-300,RT-300,301,R301,301T
Fastener, Fuel Cap Cover Door 1/2 Turn	CA26246-000	PA24-180,250,260,PA30,PA32-260,300,301,PA32R-300,301,PA32RT-300,PA39
Filter & Gasket Kit for Bendix Style Electric Fuel Pump	CA42370	PA23,PA23-160,250,250(6),PA24,PA24-250,260,PA28-140,151,161,150,160,180,181,PA28-235,236,PA32-260,PA38-112,PA44-180
Fuel Cap, Thermos Type	CA16097N	PA23-235,250
Fuel Cap, Thermos Type	CA17672N	PA23, PA23-160



## Piper Continued

Description	Part Number	Model
Fuel Cap, Thermos Type	CA27221N	PA24-180,250,260,400,PA30,PA39
Fuel Cap Gasket (not recommended for use with autogas)	CA66815-000	PA28-140,150,151,160,161,180,181,201,235,236,201T,PA28R-180,200,,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA34-200,220T,PA38-112,PA44-180,180T
Fuel Pump, Electric	CA35328-800E	PA23,PA23-160,250,250(6),PA24,PA24-250,260,PA28-140,151,161,150,160,180,181,PA38-112
Fuel Pump, Electric	CA65628-800E	PA28-235,236,PA32-260,PA44-180
Gasket, Fuel Strainer (not recommended for use with autogas)	CA462-049	PA28-140,150,151,160,161,180,181,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA38
Gasket, Fuel Strainer	CA751-871	PA24-400,PA28-235,PA32-260,300,PA30,PA39
Hinge, Aileron	62371-108	PA28-140,150,160,180,181,235,236,201T,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,PA32RT-300,300T,PA34-200
Hinge, Aileron	CA35636-100	PA28-151,161,181,PA28R-201,201T,PA28-236,201T,PA28RT-201,201T
Hinge Pin, Stabilator Tab Outboard	CA62002-002	PA28-140,151,151,160,161,180,181,201T,235,236,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA44-180,180T
Hinge Pin, Stabilator Tab Center	CA62002-003	PA28-140,151,151,160,161,180,181,201T,235,236,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA44-180,180T
Hinge Pin, Stabilator Tab Inboard	CA62002-004	PA28-140,151,151,160,161,180,181,201T,235,236,PA28R-180,200,201,201T,PA28RT-201,201T,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT-300,300T,PA34-200,220T,PA44-180,180T
Hinge, Tab, Stabilator Outboard	CA63560-002	PA28,PA28R,PA32,PA32R
Hinge, Tab, Stabilator Inboard and Center	CA63560-003	PA28-140,150,151,160,161,180,181,235,236,201T,PA28R-180,200,201,201T,PA32,PA32R
Hinge, Tab, Stabilator Half	CA95864-002	PA34-200,200T,220T
Hinge, Tab, Stabilator Half	CA95866-002	PA34-200,200T,220T
Nose Wheel Axle	CA31797-000	PA23-150,160,250,250(6),PA31-300,310,325 S/N 31-5 to 31-7812120 W/out 763-981 installed
Pitot Heater Element	CA464-356	PA28-151,161
Pitot Heater Element	CA464-357	PA28-151,161
Pitot Heater Element	CA464-440	PA28-161
Pitot Heater Element	CA464-441	PA28-161
Quad Ring, Main Gear Strut	CA484-769	PA28-140,150,151,160,161,180,181,235,236,201T,PA32,PA32-260,300,301,301T
Quad Ring, Nose Gear Strut	CA484-770	PA28-140,150,151,160,161,180,181,235,236,PA32-260,300,301,301T
Ring Scraper, Main Gear Strut	MS28776M2-18	PA28-140,150,151,161,180,181,235,236,PA32-260,300
Seat Roller, Forward	CA87332-002	PA28-140,150,151,160,161,180,181,235,236,PA28R-180,200,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA46-310P,350P
Shaft, Stabilator Trim Jack Screw	CA65246-002	PA34-200,200T,220T
Shaft, Stabilator Trim Jack Screw	CA65246-100	PA28-140,150,151,160,161,180,181,235,236,201T S/N 28-7921001 to 28-7921095, PA28R-180,200,201,201T, PA32-260,300,301,301T,PA32R-300,301,301T
Stall Switch Assembly	CA450-742N	PA23-235,250, PA24-250,260,400, PA28-140,150,151,160,161,180,181,235,236,201T, PA28R-180,200,201,201T,PA28RT-201,201T, PA30, PA31-300,325,350, PA32-260,300, PA32R-300, PA34-200, PA38, PA39
Strut, Alternator Brace	CA78483-000	PA28-150,160,180,235,PA28R-180,200
Switch, LH Main Gear Down Limit	CA67411-002	PA32R,PA34
Switch, Nose Gear Down Limit	CA67411-003	PA28R-180,200,201,201T,PA28RT-201,201T
Switch, RH Main Gear Down Limit	CA67411-004	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T
Switch, LH Main Gear Up Limit	CA67411-005	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301T,PA32RT,PA34-200,200T
Switch, Nose Gear Up Limit	CA67411-006	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT
Switch, RH Main Gear Up Limit	CA67411-007	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200
Switch, LH Main Gear Squat	CA67411-008	PA28R-180,200,201,201T,PA28RT-201,201T,PA32R-300,301,301T,PA32RT,PA34-200,200T
Switch, RH Main Gear Up Limit & Ground Op. Fan	CA67411-020	PA34-200T
Switch, Nose Gear Down Limit	CA67411-021	PA32R-300,301,301T,PA32RT
Switch, Nose Gear Down Limit	CA95232-000	PA34-200,200T
Swivel Fitting, Cable Attach	CA70371-002	PA18,PA18-150,PA22,PA23-150,160,235,250,PA24-180,250,260,400,PA25-150,235,260, PA28-140,150,151,160,161,180,181,201T,235,236,PA28R-180,200,201,201T,PA28RT-201,201T, PA30, PA30,39,PA31-300,310,325,350,PA31-350,T1020,PA31T,1,2,PA31P,PA32-260,300,301,301T,PA32R-300,301,301T,PA32RT,PA34-200,200T,220T,PA36-285,300,375,PA38,PA42, PA42-720,1000,PA44-180,PA46, PA46-310P,350P
Swivel Fitting, Stud Cable Attach	CA70371-003	J3,J5A,J5A-80,J5C(S/N5-784 & UP), PA12,PA12S,PA14,PA24,PA24-250,PA25,PA25-235,260, PA28-140 (TO S/N 28-24999),150,160,180 (TO S/N 28-43771), PA28-235 (TO S/N 11039)
Transducer, Fuel Pressure	CA486-439	PA38-112
Transducer, Oil Pressure	CA486-440	PA38-112
Tube, Nose Gear Strut Inner Lower	CA65280-000	PA28-140,150,151,161,180,181,235,236,PA32-260,300
Universal Joint, Control Wheel Shaft	CA46203-002	PA31-300,310,325,350,350-T1020,31P-350,31T,31T1,31T2
Universal Joint, Control Wheel Shaft for complete eligibility see page 98	CA62834-000 CA62834-802	PA28-140,150,151,160,161,180,181,235,236,PA28R-180,200,201,201T,PA28-160,180 PA32-260,300,301T,PA32R-300,301,301T,PA32S-300,PA34-200,200T,220T

## Pratt & Whitney

Bearing, Rod End	CG3011587	See page 42
Fuel Transfer Tube	CA3011155	See page 42
Diaphragm	CA3103346-01	See page 42
Diaphragm	CA3103347-01	See page 42
Fuel Transfer Tube	CA3020030	See page 42
Gasket	CA3118962-01	See page 42
Gasket Fuel Nozzle	CA3029566	See page 42
Gasket Fuel Nozzle	CA3029678	See page 42
Gasket Fuel Nozzle	MS9371-16	See page 42
Retainer Plate	CA3103345-01	See page 42
Shim, Prop Shaft	CA3110998-01	See page 42

## SAAB

Bushing	CAIR130986	340 Series S/N 004 thru 999
Bushing	CAIR130988	340 Series S/N 004 thru 999





**Create Your Go-Anywhere Adventure!  
Alaskan Bush Pilot Tested for over 50 Years!**

Photo courtesy of F Atlee Dodge Aircraft Service

**F Atlee Dodge Complete  
FAA-PMA Product Line**

F. Atlee Dodge Aircraft Services is well known for high quality STC modifications and FAA-PMA products for Piper Super Cubs and Cessna aircraft. Their innovative designs are the result of over 50 years of experience keeping planes flying and productive in the rugged Alaskan wilderness.

- Make your airplane more rugged (**Alaskan Bush Tough!**)
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**Weld on Float Fittings**

Better than cheap copies  
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PA-18S-135, PA-18AS-135,  
PA-18S-150, PA-18AS-150

Beefy, heavy construction, made  
from 4130 alloy steel.

- Used with Aerocet, Bauman,  
and EDO floats
- Sold in pairs - FAA-PMA/STC



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**Carb Heat Box**

Longer Life  
P/N AD15005-00

PA-18 Series aircraft

- Self lubricating bearing for longer  
service life
- Manufactured from 304 stainless  
steel to prevent corrosion and rust.
- FAA-PMA



**Air Filter Dome  
for PA18-150**

Reinforced to go the distance  
P/N 3281

- Reinforced with a doubler  
around the attach hole
- Powder coated white
- FAA-PMA/STC approved



**Heavy Duty Muffler for PA18**

This muffler will last!  
P/N 3241

- Heavier 321 stainless steel
- FAA-PMA/STC approved
- Eliminates 50 hour inspections for AD68-05-01.

**HOT-ROD Muffler for PA18**

P/N 3241HR

More Horsepower, increased rate of climb and throttle response!

- Lower oil and exhaust gas temperatures
- Larger chamber can and exhaust pipe for better gas flow
- No core or baffling inside to improve flow
- Larger inside diameter lets the engine breathe
- Direct replacement FAA-PMA/STC approved
- New shroud, clamps and tailpipe clamp included
- Eliminates AD-68-05-01
- No modification to the cowling required
- Longer tailpipe keeps the airplane cleaner



**More  
Horsepower!**

**Front and Rear Shoulder  
Harness Attach Bracket**

Make your Cub safer!

Front Bracket P/N 3232-1

Rear Bracket P/N 3232-2

FAA-PMA

J-3C, 3F, 3L, J-5A,5B, 5C,  
PA-11, PA-11S, PA-12, PA-12S,  
PA-18 Series



**Upper and Lower Cowl Channel  
for PA-18 Series**

No More Rust or Vibration

Upper P/N 3276

Lower P/N 3277

- Stainless steel - Eliminates rust and vibration  
failure
- No pre-drilled holes, allowing for a precise fit.
- Sold individually - 2 upper and 2 lower  
required per aircraft
- FAA-PMA



**Two Piece Pre-Heat Shroud  
for PA-18**

Makes exhaust inspection easy

P/N 3182

- No need to remove the exhaust  
stack to remove the shroud.
- Clamps tight over the muffler
- FAA-PMA/STC approved



**Muffler Shroud for PA-18**

Don't fight the old lock bars!  
P/N 3236

Quicker and easier to install than  
the original.

- Fits tight
- Two Piece
- FAA-PMA/STC approved







# Parts Manufactured by F Atlee Dodge for Piper Aircraft



FAA-PMA Approved

## Make sure your Landing Gear can Take the Abuse!



Photo courtesy of Steve Pierce taken at Mile High Cliffs, Wrangell St. Elias National Park, Alaska

### Heavy Duty Main Landing Gear

2000 lb gross weight model

PA-18 series and PA-19

### Standard Height Gear

1-1/4" axle use P/N 3225-1 (LH) and 3225-2 (RH)  
1-1/2" axle use P/N 3225-1A (LH) and 3225-2A (RH)

### 3" Extended Height Gear

1-1/4" axle use P/N 3284-1 (LH) and 3284-2 (RH)  
1-1/2" axle use P/N 3284-1A (LH) and 3284-2A (RH)

The 3" extended landing gear gives more height and prop clearance, which is especially important for sand or gravel landings. FAA-PMA/STC approved.

Powder coat finish. Also available with Epoxy primer, Gloss White or "Wolf Hunter" Black for an additional charge.

### Note:

Can be used on models J-3, PA-11, PA-12 and PA-14, but requires another STC modification involving additional parts and welding. Call for more information.



### Safety Cables

Don't let a bungee failure cost you an airplane!  
P/Ns 2089-12, 2089-18, 3344-12 and 3344-18

PA-12, PA-12S, PA-14 with Std Gear use P/N 2089-12  
PA-12, PA-12S, PA-14 with 3" Ext Gear use P/N 3344-12  
PA-18 and PA-19 series with Std Gear use P/N 2089-18  
PA-18 and PA-19 series with 3" Ext Gear use P/N 3344-18

**Heavy 1/4" cable will get you home!**



### Cabane Vee

Alaska tough!  
P/N 3166-1 and 3166-2

PA-12, PA-12S, PA-14 use P/N 3166-2  
PA-18, PA18-105, PA-18-125, PA-18-135, PA-18-A135, PA-18-150, PA-18-A150 use P/N 3166-1

- Beefed up in the right places
- Tough powder coat finish.
- Available in Gloss White for an additional charge
- 2 sizes - stock and 3" extended gear
- FAA-PMA/STC approved



### Main Gear Shock Struts

Heavy duty - but lightweight  
P/Ns 3164-1, 3164-2, 3164-3 and 3164-4

PA-12, PA-12S, PA-14, PA-18, PA-18-135, 150, PA-18-A135, A150  
PA-18 with standard landing gear use P/N 3164-1  
PA-12, PA-14 with standard landing gear use P/N 3164-2  
PA-18 with 3" extended landing gear use P/N 3164-3  
PA-12, PA-14 with 3" extended landing gear use P/N 3164-4

- For standard landing gear or 3" extended landing gear
- Sold individually, uses 2 per aircraft
- Powder coat finish. Also available with Epoxy primer, Gloss White or "Wolf Hunter" Black for an additional charge.



### Silver Aircraft Ski Spring

Consistent tension regardless of temperature  
P/N 2097

J3, PA-11, PA-12, PA-14, PA-18, PA-19, PA-20, PA-22 Series

- Replaces ski bungee
- FAA-PMA/STC approved



### Refueling Step

No more step ladders  
P/Ns 3190/-10, 3190/-11, 3190/-12

J3C-65, J3F-50, J3F-60, J3F-65, J-3L, J3L-65, J-4, J-4A, J-4B, J-5A, J5C, PA-11, 12, 14, 15, 16, PA18-105, 125, 135, A-135, 150, A-150, PA-19, PA-20, PA-20-115, PA-20-135, PA-22-108, 135, 150, 160

Clamps onto the main gear leg for easier refueling.

- Select part number by landing gear front tube OD:  
1.25" OD use P/N 3190/-10  
1.375" OD use P/N 3190/-11  
1.5" OD use P/N 3190/-12
- Powder coated white, available in "Wolf Hunter" Black for an additional charge
- FAA-PMA/STC approved



### Spar Reinforcing Strut Bracket

Spreads out lift strut spar loading  
P/Ns 3192-12 and 3192-18

PA-12, PA-14 series use P/N 3192-12  
PA-18, PA-19 series use P/N 3192-18

Protrudes out of the wing and attaches to the lift strut, preventing spar flex by reinforcing the front.

- Install during wing maintenance
- Powder coated white - stainless steel construction
- FAA-PMA/STC approved



### Main Gear Long Step

Easy clamp-on modification  
Much easier cabin entry  
P/N 3195

AE-1, HE-1, J3, J4, J5, PA11, PA12, PA14, PA18 and PA19 Series

The Main Landing Gear Long Step is usable on both sides of the aircraft as an entry step or refueling step. Heavy tube with 3 sizes of clamps.

- A must for bush gear and tires
- Alaska tested
- Durable non-skid surface stays on
- Powder coated white for durable corrosion resistance
- Available in "Wolf Hunter" Black for an additional charge
- FAA-PMA/STC approved



### Header Tank

Direct replacement for original sheet metal tank  
Front P/N 3169-1A  
Rear P/N 3169-2

- PA-18, 18-105, 125, 135, 150, A-150, PA-19
- Heavy-duty welded aluminum
- Light weight
- Eliminates cracking
- FAA-PMA/STC approved



### Vented Fuel Cap

Easy removal - No more corrosion  
P/N 3267

PA-11, PA-11S, PA-12, PA-12S, PA-14, PA-18 and PA-19 Series

- Vertical fin on top for easy removal.
- Gasket is included for Avgas
- Eliminates A.D.
- FAA-PMA/STC approved



### Firewall, Stainless Steel and Titanium

P/N 8007-01 for Stainless Steel  
P/N 8007-02 for Titanium

PA18 series aircraft, PA19 and PA19S

- Replaces P/Ns 12365-003, 12365-005, 12365-007 and 12365-009
- Titanium is 2.8 lbs lighter than stainless steel



### Husky Main Landing Gear

Heavy Duty!  
P/Ns AD45017-501HD and AD45017-502HD

A-1, A1A and A1B series Aviat Husky aircraft

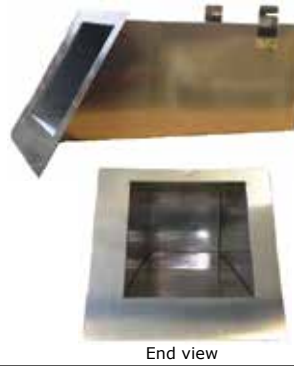
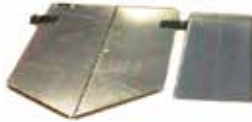
- 1.3 lbs. heavier per side
- Used primarily on aircraft equipped with skis
- Replaces P/Ns 45017-501 and 45017-502



**Extended Baggage Kit for PA-18 "150" Series**

No welding required - Extends baggage area by almost 3 feet!  
P/N 2103

- FAA-PMA/STC approved for most PA-18 aircraft
- Requires PA-18 "150" fuselage or equivalent previously approved 1750 lb gross weight modification at longitudinal station 99.0
- No welding required, may be assembled with blind or solid rivets
- Approximate compartment dimensions: 14" high X 15" wide X 35" deep
- Rated for 20 lbs of baggage



End view

**Safari Seat for PA-18, PA-19 Series**

P/N 6151

Easily installed and removed  
Clamps in and designed for easy removal with quick release pins.

**Weight saver**

Lightweight folding rear seat saves 10 pounds over existing seat.  
FAA-PMA/STC

**Saves 10 Pounds!**



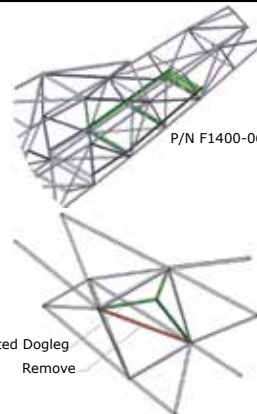
**'Weld-In' Extended Baggage Kit for PA-18 and PA-19 Series**

Large volume for bulky, light-weight cargo!

P/N F1400-06

**New!**

- FAA-PMA/STC approved for PA-18 and PA-19 aircraft
- Weld-In modification consisting of steel support frame and support tabs
- Great for storing wing covers, engine blankets, sleeping bags, paragliding sails and more
- Approximate dimensions: 22-1/2" wide at the front X 17-1/2" wide at the back X 43-1/2" deep
- 10 lb maximum load



P/N F1400-06

Inverted Dogleg Remove

**Inverted Dogleg STC for PA-11, PA-12, PA-18 and PA-19 Series**

Makes loading baggage easier!

STC SA02436AK

- Relocates the diagonal tube to the upper right corner
- FAA/STC approved for PA-11, PA-12, PA-18 and PA-19 aircraft
- Allows easy access to the aft baggage area from the baggage door
- No more catching your gear when removing it from the extended baggage area
- Longer cargo can be placed at an angle for easier insert/removal through the baggage door

**Under Seat Battery Rack for PA-18, PA-19 Series**

Easy battery removal

P/N 3304

- Mounts under front seat for easy removal and warm-up of battery.
- Uses FAA-PMA Battery P/N 0769-4005
- FAA-PMA/STC approved

**Saves 15 Pounds!**



**Lightweight Dry Battery - 680 Amps**

Superior vibration resistance

P/N 0769-4005

- Big power in a little box
- Leak proof, high G rated
- 12 year design life and 6 to 10 year service life
- Required with under seat battery rack P/N 3304
- FAA-PMA

**Saves 15 Pounds!**



**Rear Seat Heater for PA18 Series**

A must for winter flying - Alaska proven!

P/N 3175

- Heater modification using warm exhaust heat to heat back seat
- Requires some modification to the firewall
- Log book entry only - no FAA 337 form required
- Complete with firewall valve and control
- FAA-PMA/STC approved



**Folding Front Seat Kit for PA-18, PA-19 Series**

Makes entry and loading much easier!

P/N 3186

FAA-PMA/STC



**Aircraft Tie-Down Brackets for PA-12, PA-18 Series**

Prevents failure at the lift strut attach point

P/N 3197

Designed to take the load off the attach point.

- Sold individually
- Uses 2 per aircraft
- FAA-PMA/STC approved



**Cargo Tie Downs**

Secure your cargo

FAA-PMA

Piper PA31, PA31-300, PA31-325, PA31-350, PA31P, PA31P-350, PA31-T, PA31-T1, PA31-T2 and PA31-T3 series

- Clamps to seat rails to provide tie down points to secure cargo.
- 4 req. for every 100 lbs of cargo
- Anodized aluminum for durability
- FAA-PMA/STC approved

Note: This product is not to be used as a seat stop.



**Removable Rear Seat Crossbar**

Makes loading easy

P/N 3146-1

- PA-18-105, 125, 135, 150, PA-18S-105, 125, 135, 150, PA-19S, PA-19
- FAA-PMA/STC approved
- Installation instructions, pins, and blocks included



**Pilot Seat Belt Attachment Kit**

Weld on front seat belt attach kit!

P/N 3246

PA11, PA11S and PA18 series aircraft

- Relocates seat belts to floorboard
- Secures pilot to fuselage in the event of an accident.
- FAA-PMA



**Overize Rudders and Elevators**

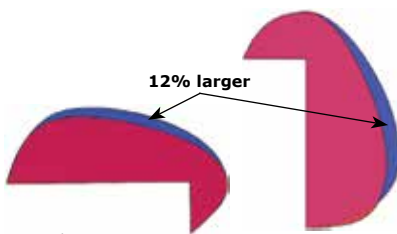
Increased control authority!

P/N AD157260S (elevator)

P/N AD127700S (rudder)

PA-12, PA-12S, PA-14, PA-18 Series, PA-19S

- Approximately 12% larger
- Powder coated grey with bushings installed
- FAA-PMA/STC approved



P/N AD157260S

P/N AD127700S

**Brake Reinforcing Channel for PA-18 Series**

No more cracking!

P/N 4231

- Made with 4130 steel for durability
- Located underneath the brake system and the front seat. The brake pedal is attached to the brake channel.
- FAA-PMA/STC approved



**Aluminum Oil Cooler for PA18, PA22 Series**

Save weight and money!

P/N 8000328

- The only aluminum Super Cub oil cooler
- FAA-PMA

**Save 3.7 lbs!**



**Strobe Light Mounting Bracket for PA-18, PA-19 Series**

P/N 2087

For use with small Whelan strobe lights

FAA-PMA/STC approved







# Parts Manufactured by F Atlee Dodge for Cessna Aircraft



FAA-PMA Approved



Photos courtesy of Henry Brown, Bob & Ruthie Warner and Dave Hayden, members of the International 180-185 Club

## Cargo Tie Downs

Secure your cargo  
TDC-208

FAA-PMA

Caravan 208, 208A, 208B use P/N TDC-208

Clamps to Cessna seat rails to provide tie down points to secure cargo.

- 4 required for every 100 lbs of cargo
- Anodized aluminum for durability
- FAA-PMA/STC approved



Note: This product is not to be used as a seat stop.

## V-Brace

Stainless Steel

P/Ns 180VBE and AD1242001-18

FAA-PMA

180, 180A, 180B use P/N 180VBE  
206, U206, T206A-G, U206A-G and  
207, T207 use P/N AD1242001-18



## Boot Cowl Handle

Slightly larger to accommodate gloves!

P/N 3354H

180H,J, A185E,F  
U206/TU206A,B,C,D,E,F,G, P206/TP206A

- Undrilled
- May not match up with existing bolt pattern due to alternate styles used by OEM.
- Replacement for P/N 0713191-1
- FAA-PMA

## Boot Cowl Step

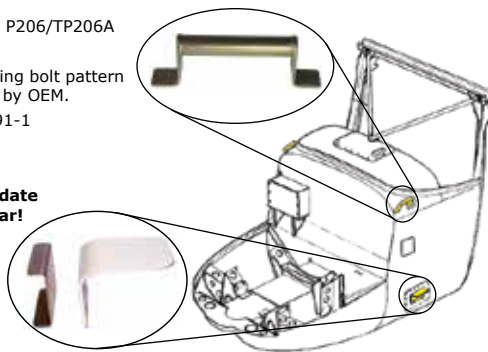
Slightly larger to accommodate

hunting and fishing footwear!

P/N 3354S

U206/TU206A,B,C,D,E,F,G  
P206/TP206A

- Undrilled
- White powder coating
- 2 per aircraft
- Direct replacement for P/N 124022-5
- FAA-PMA



## Tailpipes

Heavier duty and longer to keep exhaust  
away from airplane!

FAA-PMA

**New!**



AD1250256-7   AD1250264-6   AD1242013-1   AD1242013-2  
AD1254004-3   AD1254004-4

### Aircraft Model

210-5 (205), 210-5A (205A)  
206, U206, U206A,B,C,D,E,F,G  
P206, P206A  
P206B,C,D,E  
207, 207A, T207, T207A  
210C,D,E,F,G,H,I,J,K,L,M,N,R

Part Number	AD1242013-1 LH Seaplane	AD1242013-2 RH Seaplane	AD1250256-7 LH Landplane	AD1250264-6 RH Landplane	AD1254004-3 LH Assembly	AD1254004-4 RH Assembly
AD1250256-7			•	•		
AD1250264-6			•	•		
AD1242013-1	•	•				
AD1242013-2		•				
AD1254004-3					•	•
AD1254004-4						•

## Rudder Pedal Shaft

P/N AD0411778-2

FAA-PMA

**New!**

1/2 of Cessna Price!



### Aircraft Model

140A  
150, 150A, F150, FA150  
152, A152, F152, FA152  
170, 170A,B  
172, 172A,B,C,D,E,F,G,H,I,J,K,L,M,N,P  
F172D,E,F,G,H,I,J,K,L,M,N,P  
172RG, P172, R172E,F,G,H,K, FP172, FR172  
175, 175A,B  
180, 180A,B,C,D,E,F,G,H,J,K  
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N, 182P,Q,R  
A182, F182, FR182, R182, TR182  
185, 185A,B,C,D,E, A185E,F  
190, 190A, 195, 195A,B  
210-5 (205), 210-5A (205A)  
206, U206, U206A,B,C,D,E  
P206, P206A,B,C,D,E  
207, T207  
210, 210A,B,C,D,E,F,G,H,J,K, T210G,H,J

## Engine Mount Heat Shield

Stainless steel for longer service life

P/N AD1250918-2

FAA-PMA

**New!**

Save!



### Aircraft Model

U206A,B,C,E,D,E,F,G, P206A,B,C,D,E  
TU206A,B,C,D,E,F, TP206A,B,C,D,E  
207,207A, T207, T207A  
210K,L,M,N,R  
P210N, T210G,H,J,K,L,M,N,R

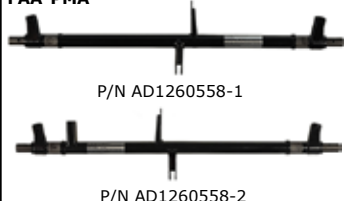
## Rudder Pedal Bar

Avoid risk of costly damage during assembly

P/Ns AD1260558-1 (LH) and AD1260558-2 (RH)

Each bar includes 2 ea. P/N S1003-43A bearings and 1 ea. P/N 1260419-1 tube pre-assembled. This avoids damage commonly caused while pressing the bearings during installation.

FAA-PMA



P/N AD1260558-1

P/N AD1260558-2

### Aircraft Model

210-5 (205), 210-5A (205A)  
206, U206G, TU206G  
206H, T206H  
207A, T207A  
210M,N,R, T210M,N,R, P210

Part Number	AD1260558-1	AD1260558-2
210-5 (205), 210-5A (205A)	•	•
206, U206G, TU206G	•	•
206H, T206H	•	•
207A, T207A	•	•
210M,N,R, T210M,N,R, P210	•	•

**New!**

## Engine Mount Bonding Strap

P/N AD0750137

FAA-PMA

**New!**

1/3 of Cessna Price!



### Aircraft Model

180, 180A,B,C,D,E,F,G,H,J,K  
182, 182A,B,C,D,E,F,G,H,J,K,L,M,N,P, 182Q,R, T182  
185, 185A,B,C,D,E, A185E,F  
188, 188A,B, A188, A188A  
210-5 (205), 210-5A (205A)  
210, 210A,B,C,D,E,F,G,H,J,K,L,M,N,R  
P210N,R, T210F,G,H,J,K,L,M,N,R



### Folding Rear Seats

Convert from people to cargo in just a few minutes!  
P/N 3187 (includes the left and right seats)

170 thru 170B, 172 thru 172S, 175 thru 175C,  
180 thru 180K, 182 thru 182D

P/N 3187-182E (includes the left and right seats)

182E thru 182T, 185 thru A185F

The FAA-PMA/STC approved folding rear seats replace the existing bench seat and increase the flexibility and utility of your airplane. The seats can be independently folded forward, stowed to the side, or totally removed in minutes to allow cargo and passenger configurations.

- Easy access to baggage
- Easier access to the tail cone for maintenance
- Increased payload! About 20 pounds lighter than the original bench seat

### Frees wasted space

The original bulky bench seats take nearly twice as much floor space as the compact, yet comfortable folding seats.

- 50% more baggage space
- More leg room

### Convenient installation kit

Seats are sold in pairs (left and right) as a kit with all required installation hardware, including mounting tracks that attach to the floor and side door frame. (Seat belts, upholstery, cushioning, and stowage straps/bungees not included.)

### Upholster to match your interior

This is not a "jump seat" or "utility seat". You don't have to sacrifice comfort and style. Seats provide room for a cushion and upholstery up to 2 inches thick. Match your interior for an attractive and comfortable finish.



**20 Pounds Lighter!**



### Firewall Mounted Battery Rack

Easier access and less weight!  
P/N 8008-01

170 thru 170B, 180 thru 180K, 185 thru A185F

### Quick and easy mounting

The Firewall Mounted Battery Rack mounts on the firewall on existing stringers or channels, allowing for quick and easy mounting and easier servicing with no extra support required.

### Shorter wiring

With shorter wiring, power loss from long wires is eliminated and starting is improved.

- Better C.G.
- Designed for the Lightweight Dry Cell Battery, P/N 0769-4005
- FAA-PMA/STC approved



**Saves 19 Pounds!**

### Lightweight Dry Battery - 680 Amps

Superior vibration resistance P/N 0769-4005

- Big power in a little box
- Leak proof, high G rated
- 12 year design life and 6 to 10 year service life
- Fits battery rack P/N 8008-01
- FAA-PMA



**Saves 15 Pounds!**

### Heavy Duty Seat Back Frame

Heavy Duty - 10 oz. heavier with less tendency to wear out!  
P/N 3226

206 Series aircraft

Replaces P/N 1214012-1 and 1214012-4



### Entry Step

Stronger & corrosion resistant  
P/N 8013-01

170 thru 170B  
180 thru 180F  
185 thru 185E

The FAA-PMA approved cabin entry seats are made with a reinforced corner, making them stronger than the original. Powder coated white for corrosion resistance.

- Left and right step are universal
- FAA-PMA/STC approved



### Landing Gear Box Shims

P/N AD0441023-2  
Tapered shim, 2-4 per aircraft

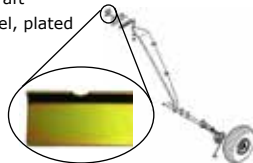
P/N AD0741022-1

.040 shim, use as required

P/N AD0741022-2

.050 shim, use as required

- For Cessna aircraft using leaf spring landing gear
- Used on most Cessna 120 thru 195 series aircraft
- 4130N steel, plated
- FAA-PMA
- Save \$\$\$



### Heavy Duty Muffler Shroud

No more cracking or vibration damage!  
P/N 4236

- 180 and 185 Series Aircraft
- Only one pound heavier
- Tailpipe outlet doubler spot welded on
- FAA-PMA



### Heavy Duty Tailpipe Clamp

Heavier material and cheaper!  
P/N AD1250259-1

- 206 and 207 Series aircraft
- Extra doublers to prevent cracking of the attach mounts
- FAA-PMA

Replaces P/N 1250259-1



### Exhaust Deflector Assembly

Deflects noise and exhaust gasses away from the aircraft!  
P/N 3238

206, U206, P206,  
P206B-E, U206A-G



### Tailpipe Hanger Assembly

Longer service life for less \$\$  
P/N AD1250255-7

U206E,F,G, 210K,L,M,N,R

Mounting bracket and hanger tab are fabricated from thicker material to ensure longer service life.

- Manufactured with 304 Stainless Steel (except for strap)
- 2 per aircraft
- FAA-PMA



### Tailpipe Support Assembly

Heavy Duty!

Mounting bracket and hanger tab are fabricated from thicker material to ensure longer service life.

- Manufactured with 304 Stainless Steel (except for strap)
- FAA-PMA

**New!**

Model	P/N	Qty per Aircraft
210-5, 210-5A (205, 205A)	AD1250258-1	4
206, U206A,B,C,D,E, P206A,B,C,D,E	AD1250258-1	4
207, 207A, T207, T207A	AD1254003-1 (LH)	2
	AD1254003-2 (RH)	2
210B,C,D,E,F,G,H,J,K, T210F	AD1250258-1	4



P/N AD1250258-1



P/N AD1254003-1



P/N AD1254003-2

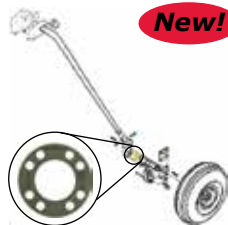
### Landing Gear Axle Shim

Tapered shim to adjust axle alignment  
P/N AD1941007-1

207, 207A, T207, T207A

- 2 per aircraft
- FAA-PMA
- Save \$\$\$

**1/3 of Cessna Price!**



**New!**



**New!**

# Parts Manufactured by Airforms, Inc.

**McFarlane**

FAA-PMA Approved

## Airforms Complete FAA-PMA Product Line

Airforms is located in the heart of the Alaskan aviation scene. Their products are developed from real world needs of experienced Alaskan bush pilots and operators. All Airforms parts are manufactured using state-of-the-art CAD/CAM technology and CNC equipment combined with exemplary craftsmanship to provide the highest quality product.



**Stock in the lower 48 for fast, economical delivery!!**

### Alaska Bush Tough!

#### Nose Baggage Compartment Cargo Door Up Latch for Cessna 207 Aircraft

No more holding up the door while loading!  
P/N AF1213922-1



- Improved strength
- Nickel plated for corrosion resistance
- Precision fit - drop in direct replacement
- Approved for all 207 models

#### Axles for Cessna Aircraft

Don't lose an airplane because of a broken aluminum axle!

**Now also in Titanium!**

Steel axle P/N AF1441003-1

- Weighs only 2.28 lbs
- Save hundreds of \$\$

Titanium axle P/N AF1441003-1T

- Reduces weight by 2 lbs per A/C vs. steel axles
- Will not rust

#### Door Latch for Piper Navajo PA-31 Aircraft

Will not deform after extended use!  
P/N AF472-004



- Precision wire EDM machined from solid stainless steel
- Precision fit - drop in direct replacement
- Improved wear resistance
- Approved for all PA-31-310, 325 and 350 models with and without extended cargo door.



Steel axle  
P/N AF1441003-1



Titanium axle  
P/N AF1441003-1T

Model	Serial Number
170, 170A,B	18000 thru 27169
180, 180A-H	30000 thru 18052284
182, 182A-S	33000 and On
T182, R182, TR182	1820001 thru R18202041
185, 185A-E, A185E-F	1850001 thru 18504448
206, U206, U206A-G and TU206A-G	206-0001 thru U20607020
P206, P206A-E, TP206A-E	P206-0001 thru P20600647
206H	2068001 and On
T206H	T20608001 and On

#### High Strength Parts for Helio H-295 Courier Aircraft

Parts are manufactured from high strength material and machined from a single billet  
Stronger than original welded assemblies!

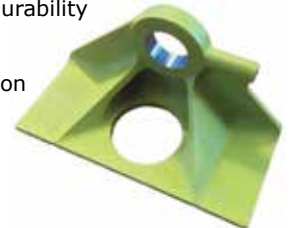
**Axle**  
P/N AF250-040-495

- Cad plated for increased durability
- Precision fit - drop in direct replacement
- Accommodates wheel-ski installation



**Stabilator Bracket**  
Left Hand P/N AF391-022-401-2  
Right Hand P/N AF391-022-401-3

- Cad plated and primed for increased durability
- Sold as a match-machined set
- Mounting holes match drill at installation to ensure exact fit



#### Complete Engine Baffle Kits

Keep your engine cool with new baffle kits!  
Airforms is the premier manufacturer of FAA-PMA replacement baffle kits for Cessna, Piper and the Beechcraft Baron.

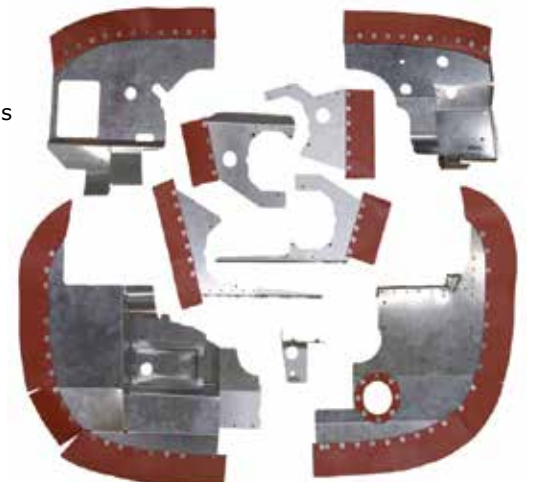
- 6061-T6 aluminum with black high temperature fiberglass reinforced silicone seals pre-installed (orange or blue seals available as special order for an extra charge)
- Bare aluminum or gray powder coat finish
- Individually interchangeable with factory baffles

#### Many Improvements:

- Stainless steel brackets where needed
- Hard rivet construction
- 1/2" back plates to secure seals
- Improved fit

#### Notes:

- If aftermarket components (starter, alternator, exhaust, engine mod, etc) have been installed it is the installer's responsibility to adjust baffles to fit.
- Mounting hardware is not included (nuts, bolts, screws, Tinnerman clips, etc).



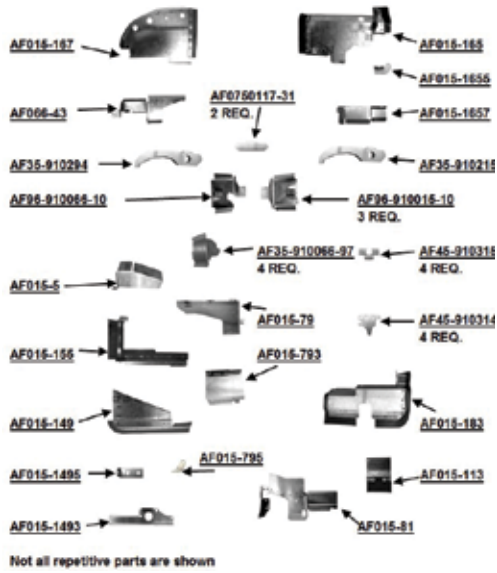
See eligibility and figures on the following pages

<b>Eligibility for Airforms Engine Baffle Kits</b>				
<b>Aircraft Model</b>	<b>Serial Number</b>	<b>Bare Aluminum P/N</b>	<b>Powder Coat P/N</b>	<b>Figure</b>
<b>Beechcraft</b>				
95-55, 95-A55	All	B9555-BRBK	B9555-PCBK	1
95-B55	TC-371 and TC-502 and On	B9555-BRBK	B9555-PCBK	1
<b>Cessna</b>				
150D,E,F,G,H,J,K,L,M	All	C150-6470BRBK	C150-6470PCBK	2
A150L,M, FA150L	All	C150-7177BRBK	C150-7177PCBK	3
152*	15279406 thru 15283591	C152-7879BRBK	C152-7879PCBK	4
A152*	A1520735 thru A1520878			
F152*	F15201429 thru F15201673			
FA152*	FA1520337 thru FA1520357			
152*	15283592 thru 15285594	C152-8082BRBK	C152-8082PCBK	5
A152*	A1520879 thru A1521014			
F152*	F15201674 thru F15201928			
FA152*	FA1520358 thru FA1520382			
170A,B*	18730 thru 25372	C170-4955BRBK	C170-4955PCBK	6
170B*	25373 and On	C172A-BRBK	C172A-PCBK	7
172, 172A	All	C172IKL68-M73-BRBK	C172IKL68-M73-PCBK	8
172I,K,L,M*	17256513 thru 17261898	C172M-7476BRBK	C172M-7476PCBK	9
F172L,M*	F17200805 thru F17201034			
172M*	17261899 thru 17267584	C172N-77795BRBK	C172N-77795PCBK	10
F172M*	F17201035 thru F17201514			
172N*	17267585 thru 17271953	C172N-79580BRBK	C172N-79580PCBK	11
F172N*	F17201515 thru F17201909			
172N*	17271954 thru 17274009	C172P-BRBK	C172P-PCBK	12
F172N*	F17201910 thru F17202039			
172P, F172P	All	C172R-9798PCBK	C172R-9798PCBK	13
172R	17280001 thru 17280697	C172R-9904PCBK	C172R-9904PCBK	14
172R	17280698 thru 17281233	C172S-98045PCBK	C172S-98045PCBK	15
172S	172S8001 thru 172S9770	C177-68BRBK	C177-68PCBK	16
180, 180A,B,C,D,E,F,G,H,J,K 182A,B,C,D,E,F,G,H,J,K,L,M,N,P*	32151 and On 34755 thru 18262465	C180182BRBKPKGA <b>1</b>	C180182PCBKPKGA <b>1</b>	17
		C180182BRBKPKGB <b>1</b>	C180182PCBKPKGB <b>1</b>	
		C180182BRBKPKGC <b>1</b>	C180182PCBKPKGC <b>1</b>	
		C180182BRBKPKGD <b>1</b>	C180182PCBKPKGD <b>1</b>	
182P*,Q,R* F182P,Q	18262466 thru 18268542 All	C182-7485BRBKPKGG <b>1</b>	C182-7485PCBKPKGG <b>1</b>	18
		C182-7485BRBKPKGH <b>1</b>	C182-7485PCBKPKGH <b>1</b>	
185, 185A,B,C,D,E, A185E,F	All	C185-BRBKPKGJ <b>1</b>	C185-PCBKPKGJ <b>1</b>	19
		C185-BRBKPKGK <b>1</b>	C185-PCBKPKGK <b>1</b>	
P206, P206A,B,C,D,E U206B,C,D,E*	All U206-0657 thru U20601604	C206207-BRBKPKGE <b>1</b>	C206207-PCBKPKGE <b>1</b>	20
		C206207-BRBKPKGF <b>1</b>	C206207-PCBKPKGF <b>1</b>	
		C206207-BRBKPKGI <b>1</b>	C206207-PCBKPKGI <b>1</b>	
U206F*, G	U20602200 thru U20607020	C206-7486BRBK	C206-7486PCBK	21
207	20700001 thru 20700268	C206207-BRBKPKGE <b>1</b>	C206207-PCBKPKGE <b>1</b>	20
		C206207-BRBKPKGF <b>1</b>	C206207-PCBKPKGF <b>1</b>	
		C206207-BRBKPKGI <b>1</b>	C206207-PCBKPKGI <b>1</b>	
401, 401A,B, 402, 402A,B,C	All	C401402414-BRBK	C401402414-PCBK	22
414, 414A				
<b>Piper</b>				
PA-18 "150"	1809001 thru 1809079	PA18150-BRBK	PA18150-PCBK	23
PA-18 "150"	18-3781 thru 18-8309025	PA22150-BRBK	PA22150-PCBK	24
PA-22-150	22-2425 thru 22-7630	PA28140-6471.5BRBK	PA28140-6471.5PCBK	25
PA-28-140	28-20002 thru 28-7125471	PA28161-BRBK	PA28161-PCBK	26
PA-28-161	All	PA28180-6572.5BRBK	PA28180-6572.5PCBK	27
PA-28-180	28-1761 thru 28-7205091	PA28181-2BRBK	PA28181-2PCBK	28
PA-28-181	2890001 thru 2890205			
PA-28-181	28-7690001 thru 28-8690056			
PA-28-181	28-8690061 and 28-8690062	PA28181-3BRBK	PA28181-3PCBK	28
PA-28-181	2843001 thru 2843999			
PA-28-236	All	PA28236-BRBK	PA28236-PCBK	29
PA-28R-200	28R-35001 thru 28R-35820	PA28R200-BRBK	PA28R200-PCBK	30
	28R-7135001 thru 28R-7135229			
PA-28R-201	All	PA28R201-BRBK	PA28R201-PCBK	30
PA-30	All	PA30-BRBK	PA30-PCBK	31
PA-31-310	31-2 thru 31-822031	PA31310-BRBK	PA31310-PCBK	32
PA-31-325	31-7512001 thru 31-8312019	PA31325350-BRBK	PA31325350-PCBK	33
PA-31-350, PA-31-350 (T1020)	31-7305001 thru 31-8553002			
PA-32-260	32-1 thru 32-1033	PA32260-6568.5BRBK	PA32260-6568.5PCBK	34
	32-1034 thru 32-7800008	PA32260-68.578BRBK	PA32260-68.578PCBK	
PA-32-300	32-7640072 thru 32-7940290	PA32/32R300-BRBK	PA32/32R300-PCBK	35
PA-44-180	All	PA44180-BRBK	PA44180-PCBK	36

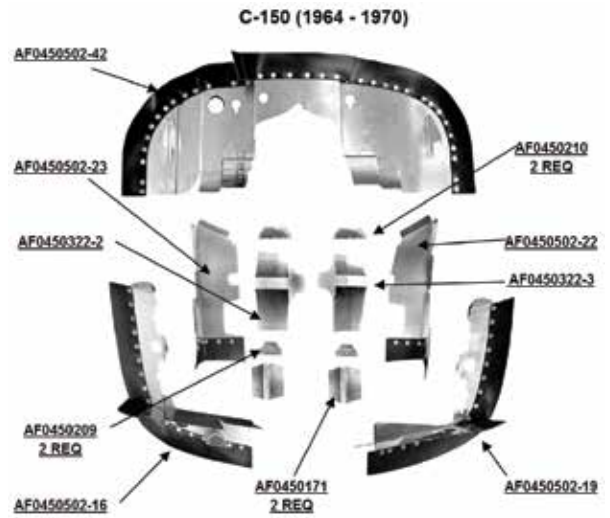
**1** To determine the part number required see oil cooler configuration with applicable figure.

**See figures on the following pages**

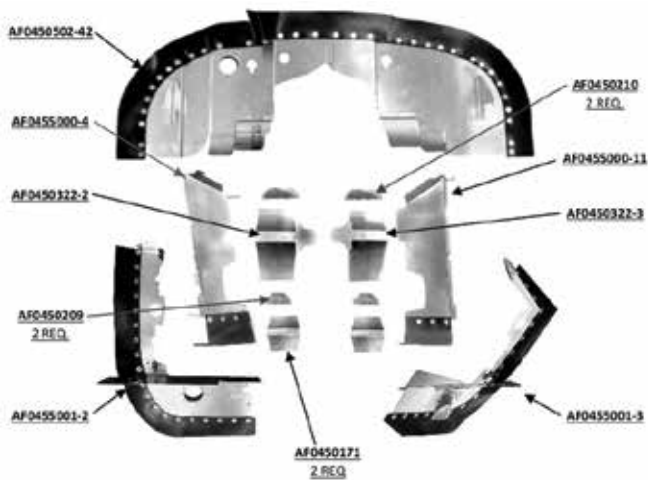
**Figure 1**



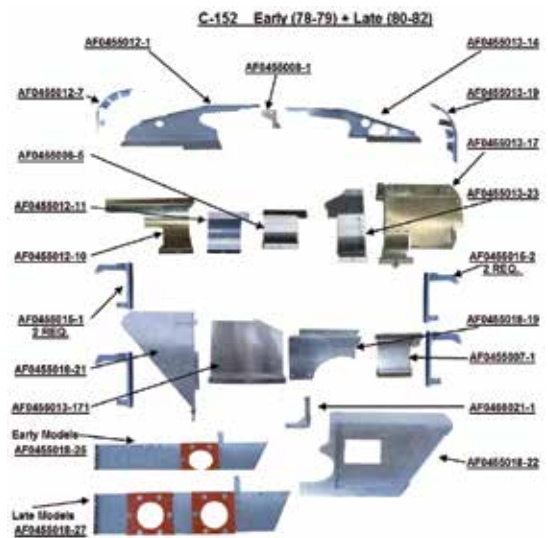
**Figure 2**



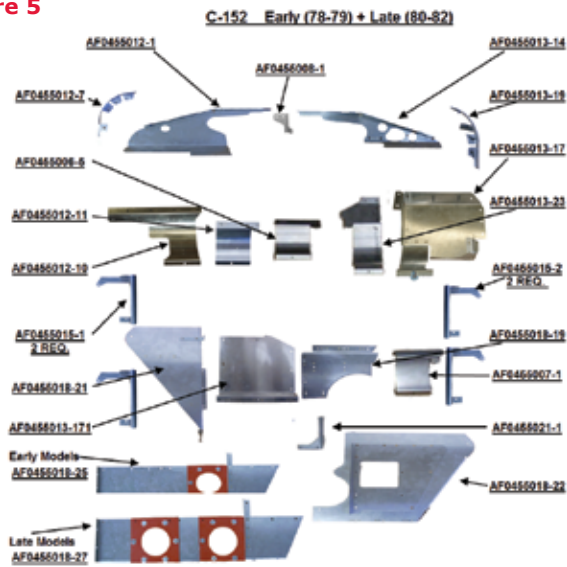
**Figure 3**



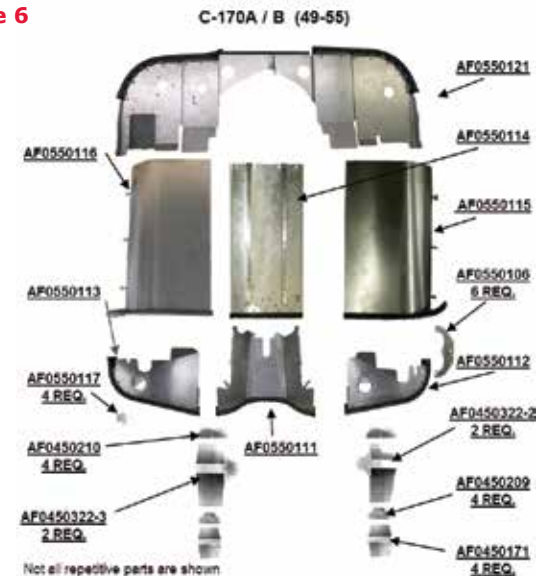
**Figure 4**



**Figure 5**

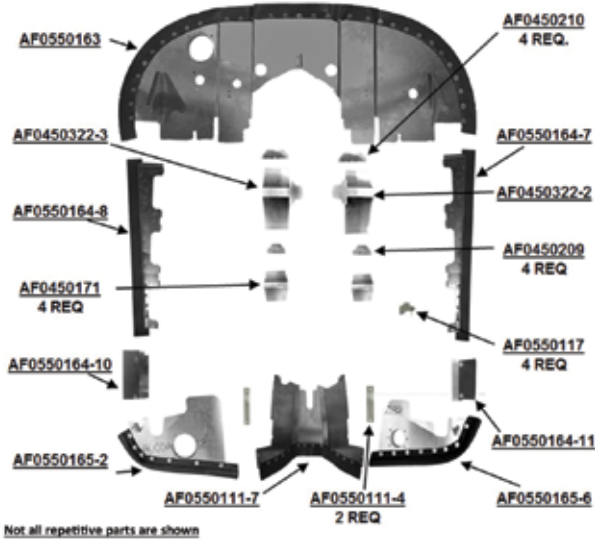


**Figure 6**

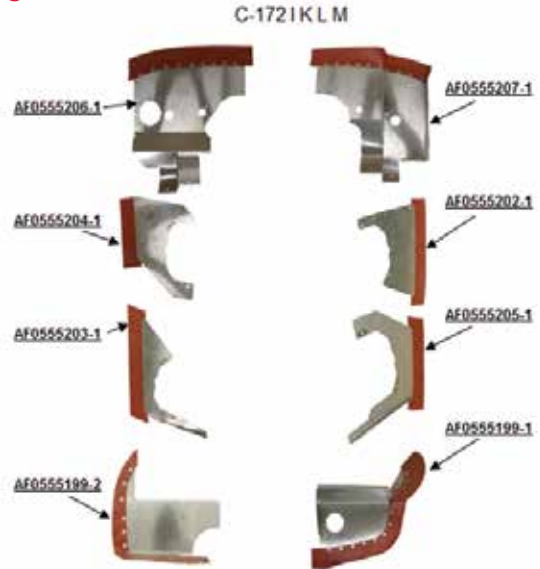




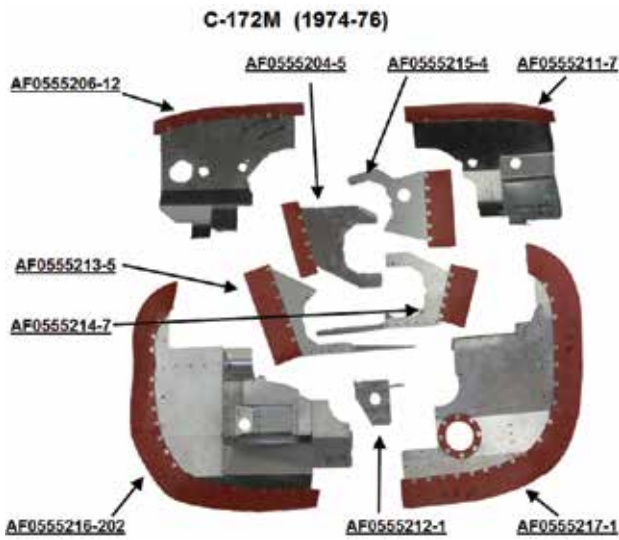
**Figure 7**



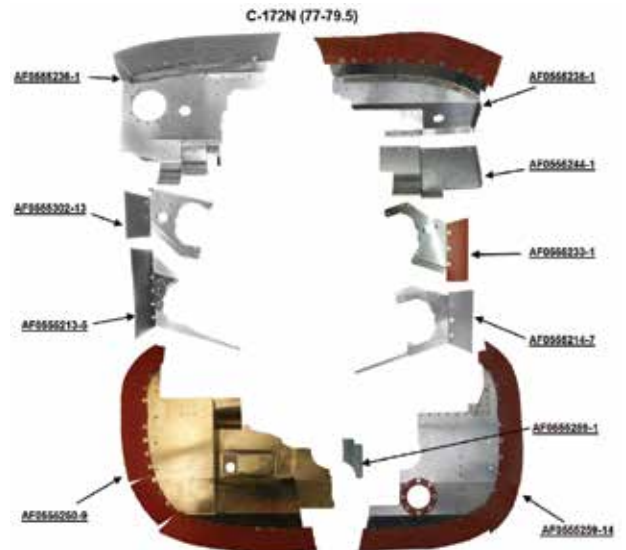
**Figure 8**



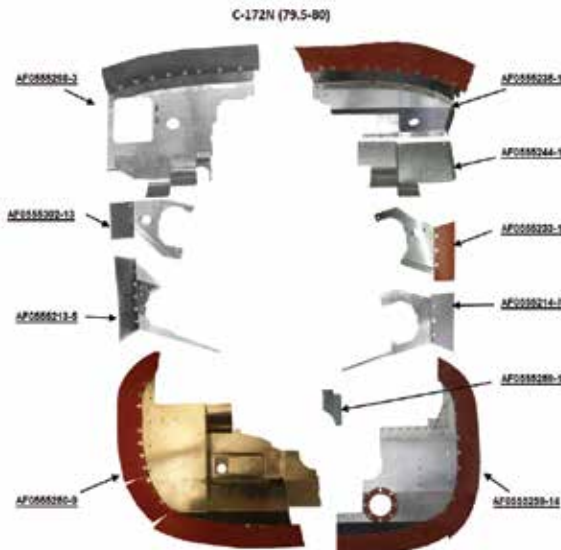
**Figure 9**



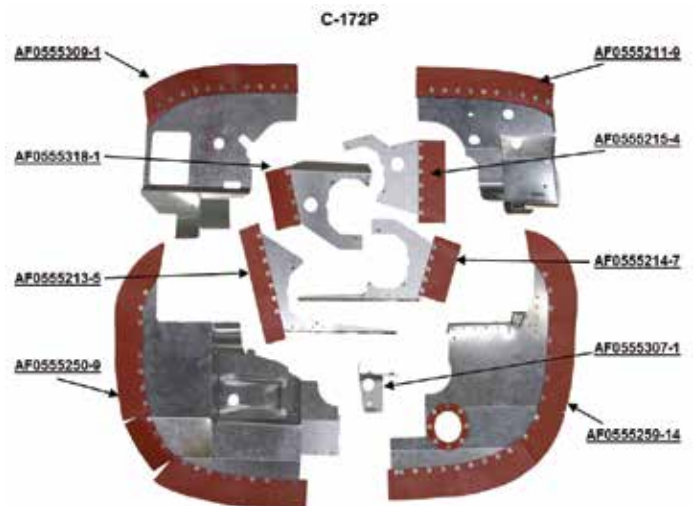
**Figure 10**



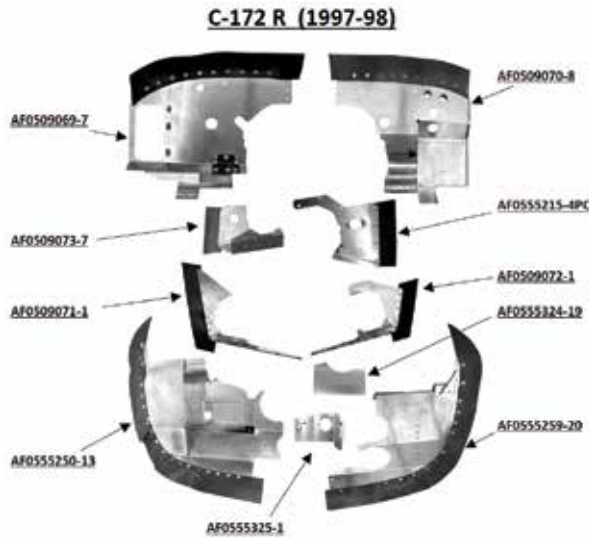
**Figure 11**



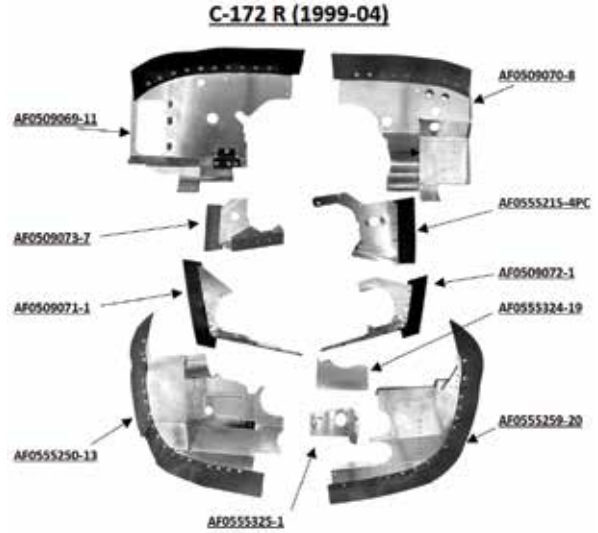
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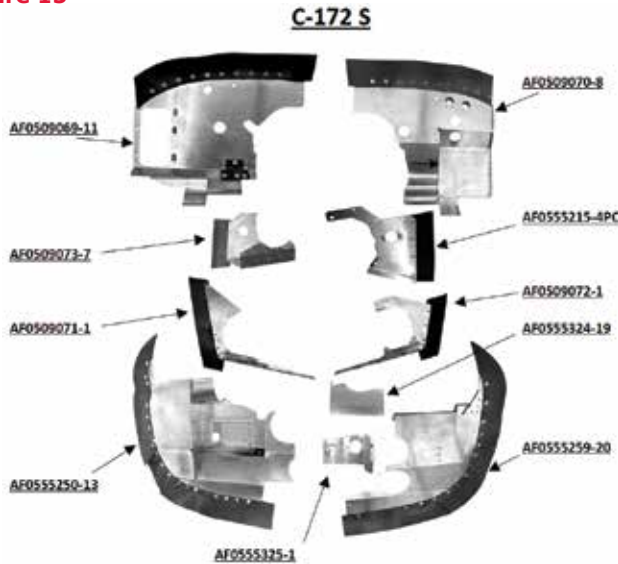
**Figure 13**



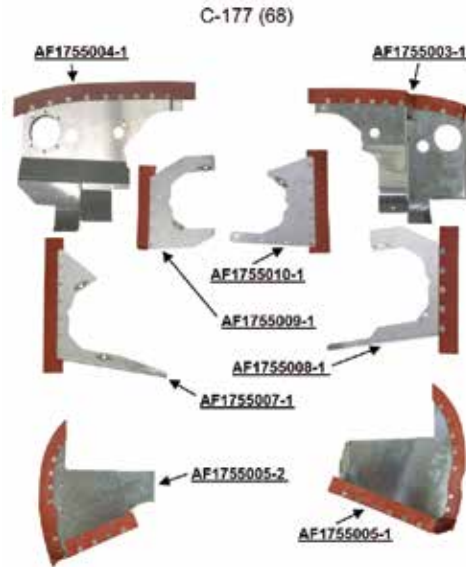
**Figure 14**



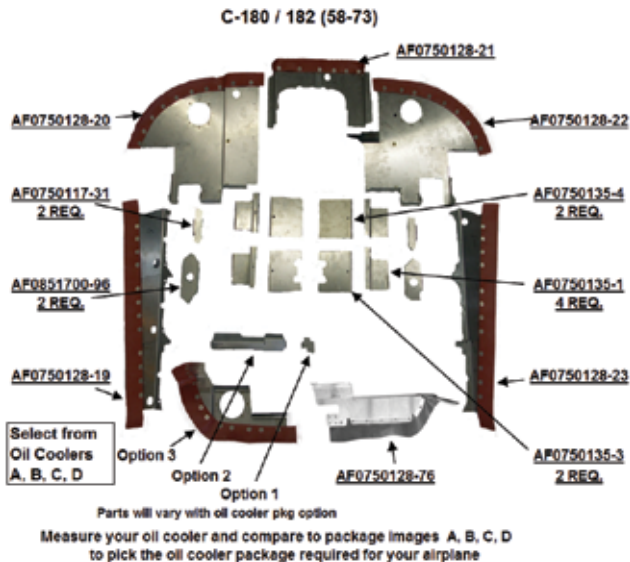
**Figure 15**



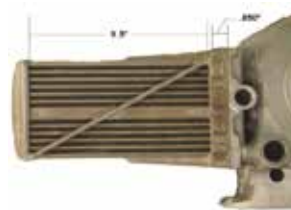
**Figure 16**



**Figure 17**



**Package A**



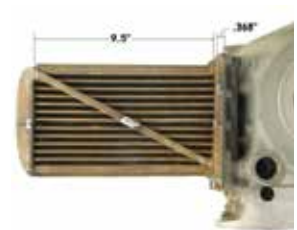
**Package B**



**Package C**



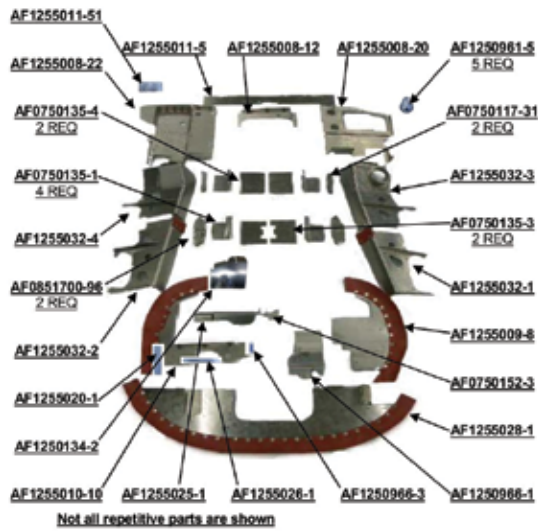
**Package D**



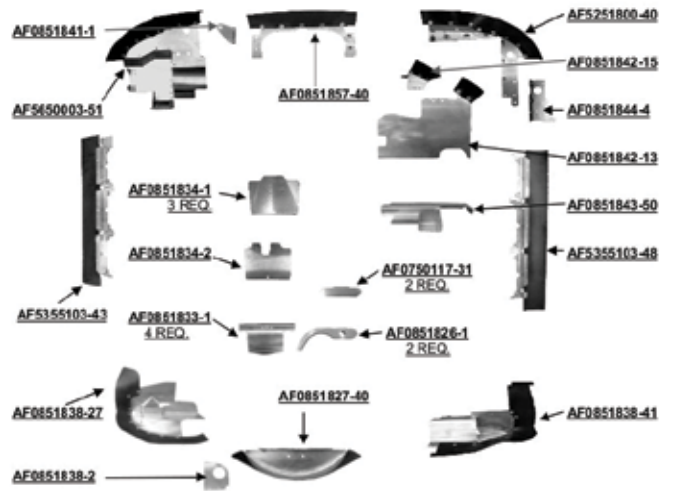




**Figure 21**



**Figure 22**



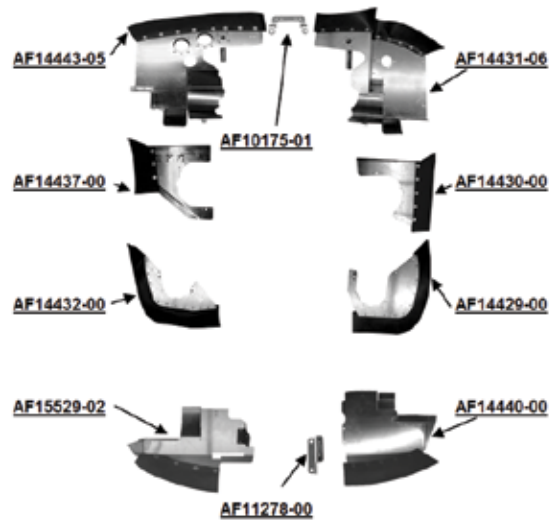
**Figure 23**

**PA-18-150**



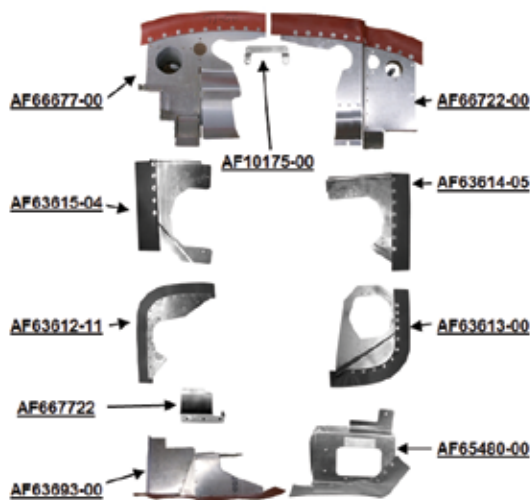
**Figure 24**

**PA-22-150**



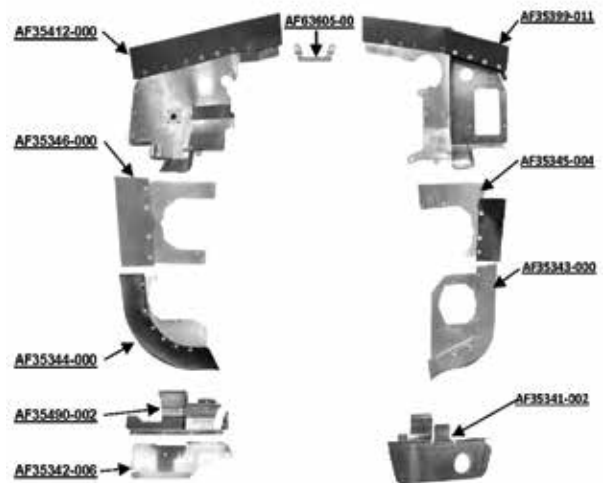
**Figure 25**

**PA-28-140**

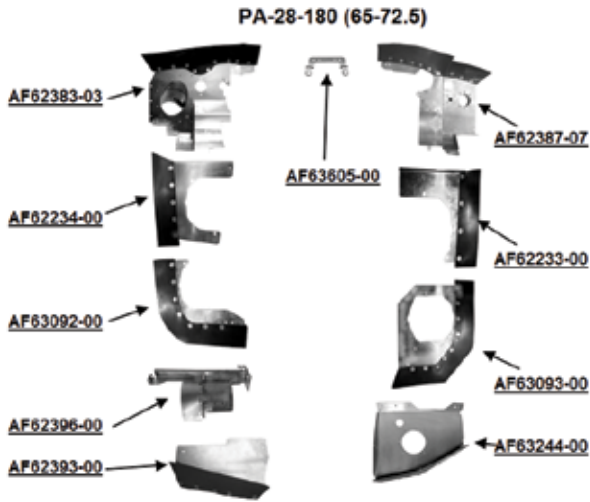


**Figure 26**

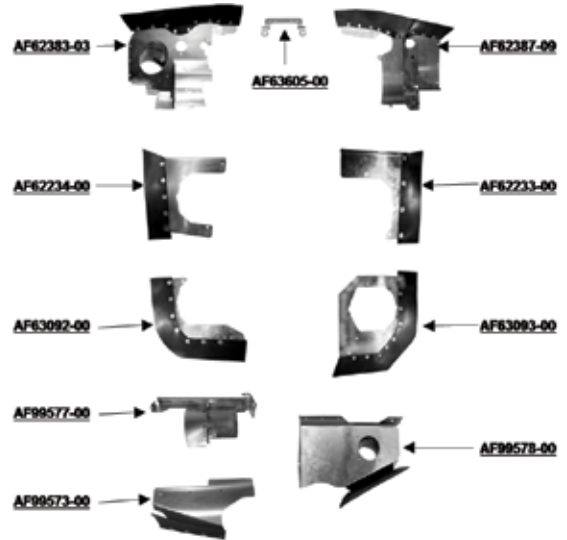
**PA-28-161**



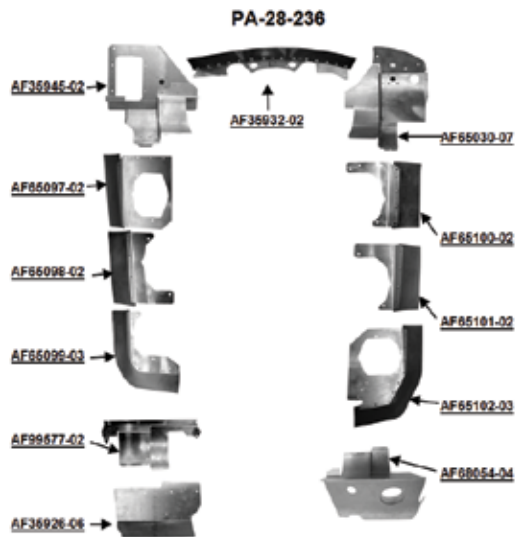
**Figure 27**



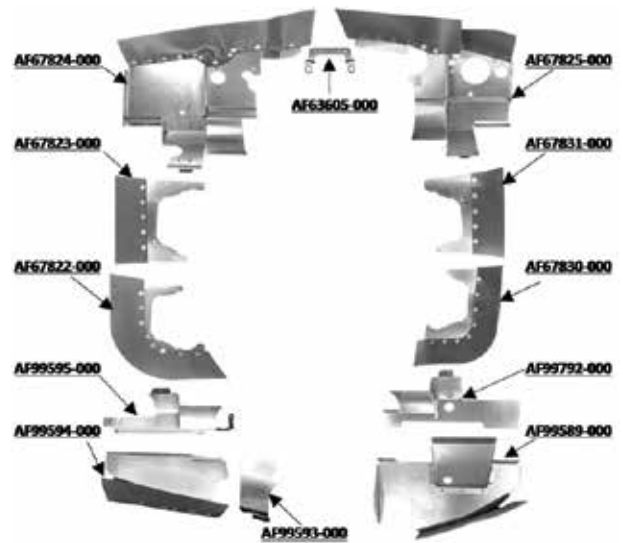
**Figure 28**



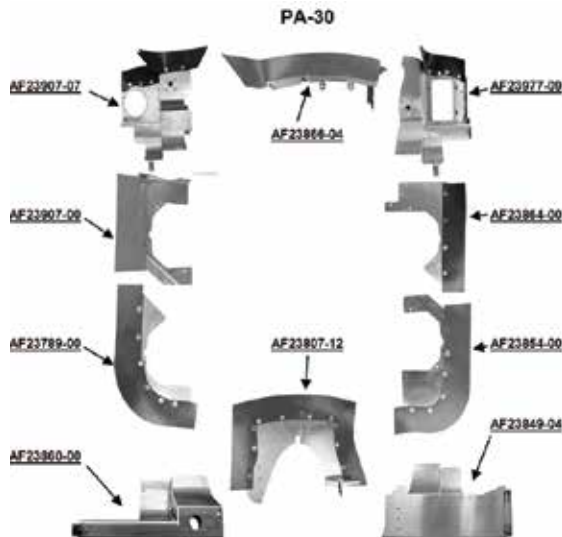
**Figure 29**



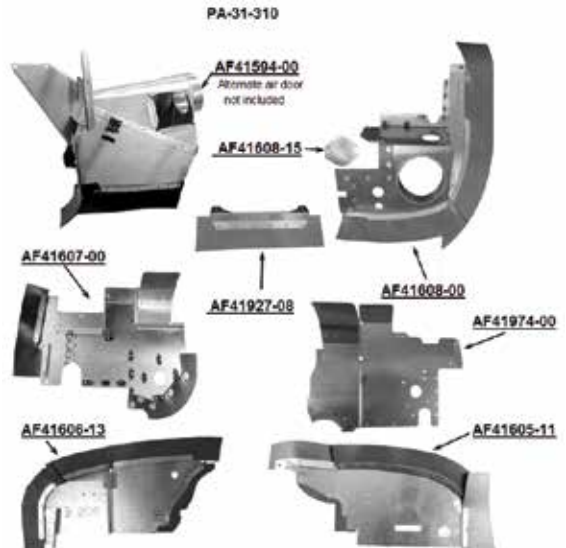
**Figure 30**



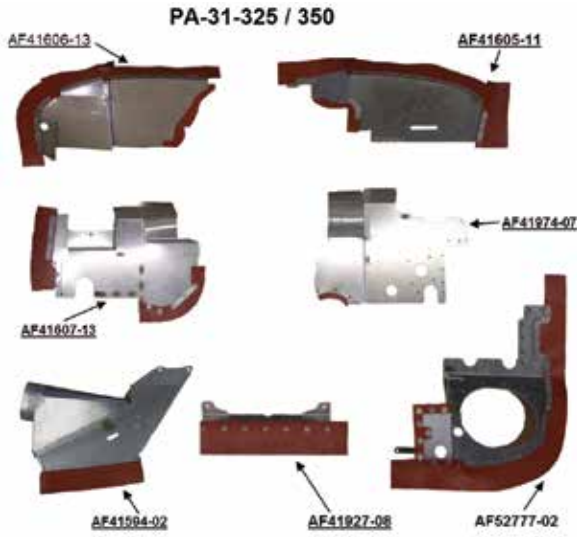
**Figure 31**



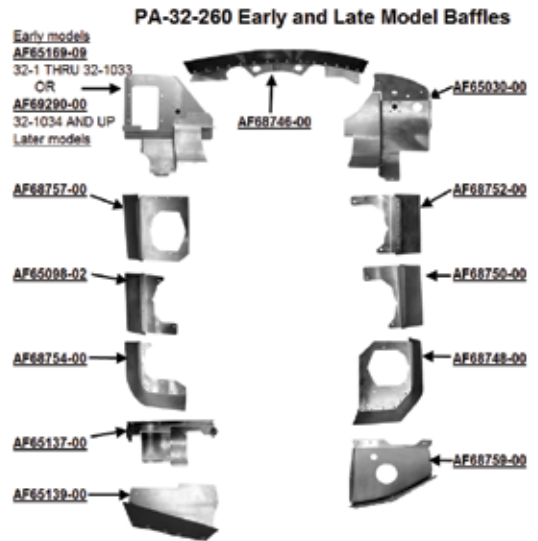
**Figure 32**



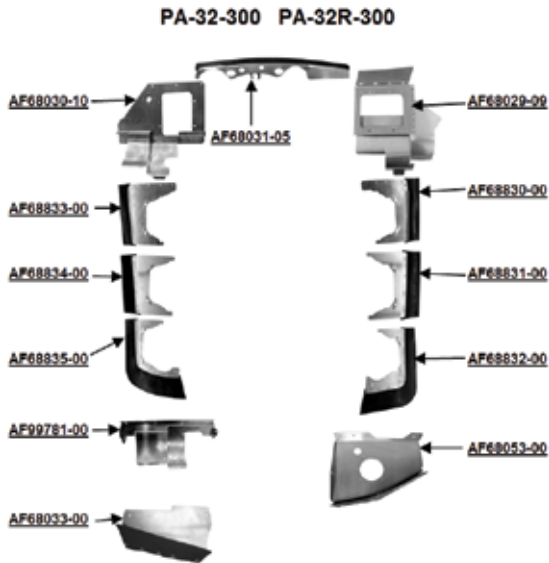
**Figure 33**



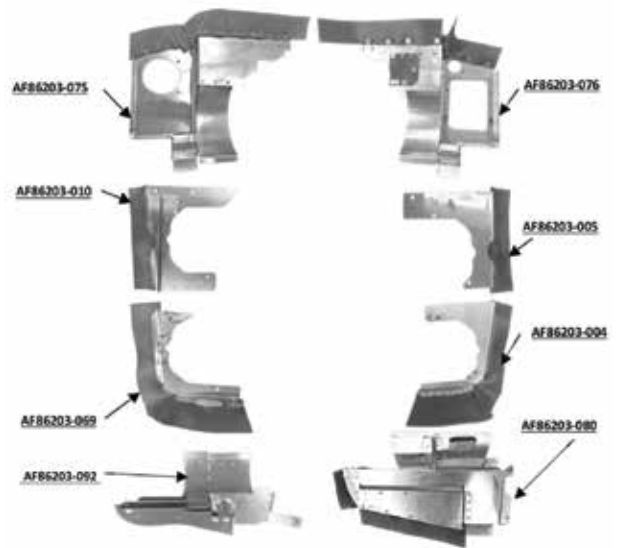
**Figure 34**



**Figure 35**



**Figure 36**



See eligibility on page 186



**Parts for Cessna 208 and 208B Aircraft**



**Oil Cooler Baffle**

**Reinforced design for longer life**  
**P/N AF2650098-5**

- Approved for all 208 and 208B aircraft
- Precision fit - drop in direct replacement
- Increased thickness at critical locations to extend serviceability
- Replaceable low cost seal



**Tail Tie Down Handle, Rear**

**Primed and ready for installation**  
**P/N AF2612035-1**

- Approved for all 208 and 208B aircraft
- Precision fit - drop in direct replacement
- Tail stand interface unchanged, works with existing tail stand



**Tie-Down Trim Plate**

**Aluminum instead of plastic for longer life**  
**P/N AF2615118-1**

- Approved for all 208 and 208B passenger aircraft only
- Precision fit - drop in direct replacement
- Won't shatter when impacted at low temperatures
- Durable powder coating improves interior fit, finish and longevity



**Cabin Heat Vents**

**Reinforced design for longer life**

- Replaceable end caps are metal not fragile plastic like the originals
- Precision fit - drop in direct replacement



**Nose Gear Torque Link Assemblies**

**Improved to reduce wear and prevent cracks**

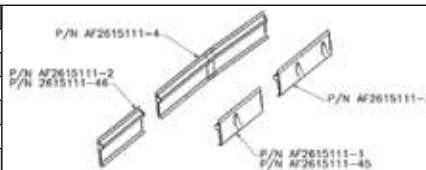
**P/N AF2643084-1 (Upper)**  
**P/N AF2643084-2 (Lower)**

- Approved for all 208 and 208B aircraft
- Hard aluminum surface to reduce wear
- Precision fit - drop in direct replacement
- Designed to prevent cracking in threaded grease fitting holes
- Ready for installation
- Durable powder coating finish

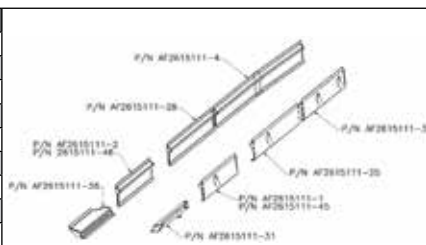


P/N AF2643084-1 (Upper) P/N AF2643084-2 (Lower)

208 Cabin Heat Vents		
P/N	Description	S/N
AF2615111-1	LH Fwd Center	0001 thru 0312
AF2615111-45	LH Fwd Center	0313 and On
AF2615111-2 <b>■</b>	RH Fwd Center	All
AF2615111-3	LH Aft	All
AF2615111-4	RH Aft	All



208B Cabin Heat Vents		
P/N	Description	S/N
AF2615111-1	LH Fwd Center	0214 thru 0765
AF2615111-45	LH Fwd Center	0766 and On
AF2615111-2 <b>■</b>	RH Fwd Center	0214 and On
AF2615111-3	LH Aft	0214 and On
AF2615111-4	RH Aft	0214 and On
AF2615111-25	LH Fwd Aft	0214 and On
AF2615111-28	RH Fwd Aft	0214 and On
AF2615111-31	LH Fwd	0214 and On
AF2615111-36	RH Fwd	0214 and On



**■** P/N AF2615111-2 replaces Cessna P/N 2615111-2 and -46.

**Crew Door Panels**

**Includes retaining straps, fire extinguisher recess, large storage pocket, weight placard and certificate pouch**

**P/N AF2615180-1 LH**  
**P/N AF2615180-2 RH**

- Approved for all 208 and 208B aircraft
- Precision fit
- Color matched to original part
- Direct replacements for P/N 2615180-1 and -2 and the early model P/N 2615054 series door panels
- Brings a modern look and increased utility to your older Caravan



## Seat Roller Housing Gauge for Cessna Aircraft

**Part Number TOOL110**

- Hardened Stainless Steel
- Save time! Two times faster than calipers
- Step by step instructions
- Measures all three dimensions

### Checks Cessna seat roller housing limits as per FAA AD 2011-10-09

The McFarlane Seat Roller Housing Gauge is designed to facilitate inspection of seat roller housings for wear in Cessna aircraft as required by mandatory FAA AD 2011-10-09. This gauge simplifies determining whether the housing is in or out of tolerance by allowing the areas of concern to be gauged as opposed to measuring each individual attribute on each seat roller housing with calipers.



**P/N TOOL110**

**Step 1.**  
.440 gauge surfaces must not enter space between housing tangs.

**Step 2.**  
The bend area of the tang must not enter the space on the gauge marked .230. See Detail A.

**Step 3.**  
The .050 space on the gauge must not fit on the worn area of the tang.

To calibrate; ensure gauge dimensions are within the tolerances shown.  
 .440 + .000/- .002  
 .230 + .002/- .000  
 .050 + .002/- .000

## Seat Rail Wear Gauge for Cessna Aircraft

**Checks seat rail wear limits as per FAA AD 2011-10-09**

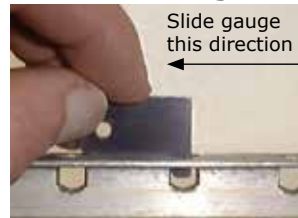
### Seat Rail Directive

The McFarlane Seat Rail Wear Gauge is designed to check for seat rail pin engagement hole wear on Cessna aircraft, as required by FAA AD 2011-10-09. This gauge is designed to measure the actual radius wear near the seat stop holes and allows for the 0.020 upper surface wear permitted by the AD. This gauge is very precisely machined.

**Fast and Positive - No More Guessing!!**



**1.** Place the gauge into each hole location showing wear.



**2.** Slide gauge back along **top center** of the rail until it contacts the hole edge. Make sure to keep the gauge parallel and square to the unworn rail surface.



**3.** If the step touches the rail, lifting the gauge up, the wear is less than 0.42. If the step **does not** touch the rail, the wear is more than 0.42 and the seat rail must be replaced.



**Note:** Earlier versions of the McFarlane Seat Rail Hole Wear Gauge feature a 0.36 and a 0.42 step. The 0.36 step was included per an earlier version of the Airworthiness Directive and is no longer used.



**Part Number GAUGE SR1**

## U-Joint Taper Pin Removal Tool for Piper Control Yoke

**Part number TOOL107**

- Save time and money.
- Makes removal of stuck pins easy.
- Prevents damage from hammering behind the panel.
- Compact to get in tight places.
- Heat treated 4140 Alloy Steel.



**Flap Track Wear Gauge for Cessna Aircraft**

**Part Number 950**

Use to determine if a Cessna flap track is worn beyond service limits.

**Instructions**

Run the gauge plug along each slot in each flap track while verifying that the gauge will not enter the slot. Reposition the flaps as required to gauge the entire length of each slot. If the gauge enters a slot at any point, the track is worn beyond service limits. Periodically verify the gauge diameter by measuring the gauge diameter with a calibrated micrometer.

**This gauge will work for all single engine Cessna aircraft except 140A, 170A and 195**



**Flap Roller Installation Tool**

**Part Number 970**

- Makes installation of the aft flap roller, bushing and washers easy.
- Long handle allows access through the small inspection openings.
- Holds parts in alignment while inserting the bolt.
- Use on Cessna 150 thru 337



**Elevator and Rudder Bearing Installation Tool for Cessna Aircraft**

**Makes pressing bearings in or out easy!**

**Part Number 990**

This unique tool is specifically designed to prevent damage when installing and removing sintered bronze rudder and elevator hinge bearings.

- Eight piece kit for all sizes of sleeve bearings.
- Heat treated stainless steel will last a lifetime.
- Comes in a convenient storage pouch.



**Small Radius 1/8" Tube Bender**

**Ideal for fuel injection, primer, oil pressure, and oxygen lines!**

**Tube Bender P/N 364-FH-02**

- Easily fabricate 3/8" radius bends up to 180°
- Calibrated to show angle of bend
- For bending 1/8" OD soft copper, aluminum, brass, steel, stainless steel, and other tubing



**McFarlane Aircraft Wheel Balancer**

**Part Number TOOL108**

**Wheel balance is important and now it's fast, accurate and affordable!**

Aircraft tires spin 1.6 times faster than your car tires.

Out-of-balance wheel cause a long list of maintenance problems:

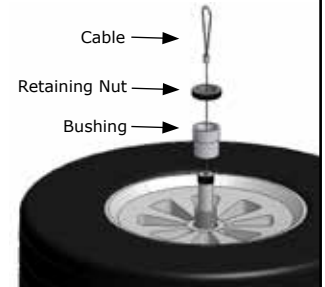
- Uneven tire wear
- Premature bearing wear
- Shimmy and resulting torque link damage
- Destructive and distracting airframe vibration

TOOL108 is a suspension wheel balancer with a patent pending design featuring a pivot point that is easily adjustable on-the-fly for maximum balance sensitivity. It is small enough to fit in a tool box and doesn't require a bulky stand. The McFarlane design is more precise than other static balancing methods, and allows the wheel to be balanced with the bearings and seals installed.

**It's fast and easy.** Due to the horizontal balancing orientation, test weights can be temporarily set in place and easily adjusted while balancing. This eliminates the need to tape the test weights. The McFarlane wheel balancer is precision machined with a black, hard anodized finish, and comes in an oiled wooden case. It includes bushings to accommodate both 1 1/4" and 1 1/2" axle sizes. This is a **lifetime tool** that fits almost all light aircraft wheel/tire assemblies.

- On the Fly adjustable pivot point for maximum sensitivity (Patent pending)
- More accurate than "bubble" or "axle and bearing" style balancers
- Portable – small enough to fit in your toolbox
- Does not require removal of bearings or seals
- Complete instructions included
- Less than half the price of bulky "axle and bearing" style balancers

**Coming Soon!  
New models  
for smaller and  
larger axles!**





## Cowl Saver™ Scoring Tool

**Customize Your Baffle Seal Flexibility for Optimal Cooling!**  
P/N TOOL120

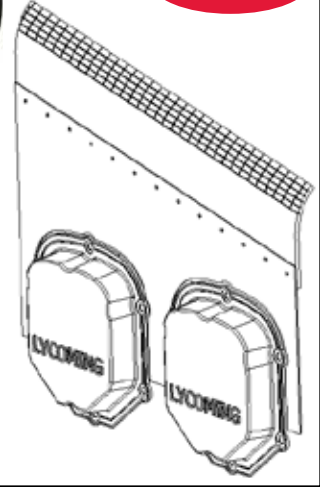


**New!**

Customize Cowl Saver™ engine baffle seal material to be extremely flexible for a perfect seal where it contacts the cowl and rigid elsewhere to prevent the seal from blowing past the cowl contact line.

This unique tool has 3 circular razor blades spaced 0.16" apart and makes it fast and easy to score the stiffer outer layer of the Cowl Saver™ material where more flexibility is required. The spacers also precisely control the depth of the cuts to help prevent damage to the material.

- You control the amount of flexibility.
- Use on a new baffle seal installation or to perfect the fit and seal of an existing installation.
- Material still meets the original AMS3306 specification to which it was certified as long as the fiberglass reinforcing layer hasn't been cut.
- Replacement blade kit also available (P/N TOOL120-BKT)
- See page 36 for more details



*Only for use on the Teflon side of Cowl Saver™ baffle seal material*

## PROP GUARD Installation Tool

**Saves time and makes installation easier!**  
P/N TOOL125

This rubber coated roller makes working air bubbles out during installation easier than using the spatula included with the PROP GUARD kits. The rubber conforms to the shape of the propeller, and the rolling action allows you to press harder to eliminate small air bubbles. It is recommended for customers who may be installing more than one PROP GUARD or those who just want to make the job faster and easier.



## Adjustable Elevator Neutral Rigging Tool for Cessna Aircraft

**Save time, you'll always have the correct tool!**  
P/N TOOL126

**New!**

Proper elevator rigging is necessary for full range of motion and maneuverability of the airplane. Many Cessna maintenance manuals require the fabrication of a tool to hold the yoke in the neutral position while the mechanic rigs the elevator control system. These tools utilize the holes for the control gust lock. At least 17 different sizes of rigging tools are required to cover the various Cessna aircraft. Now there is one tool to replace them all.

The McFarlane Elevator Neutral Rigging Tool is adjustable from 0.4" to 2.5" and universal in design, consisting of six different pin sizes to fit your application. This tool may also be used to properly rig other makes of aircraft with similar elevator neutral rigging requirements.

### Features and Benefits

- Replaces 17 costly tools
- Quick setup and adjustment
- Simple to use instructions
- Includes compact storage box
- Replacement parts available separately
- Hardened stainless steel components

**Fits most Cessna 150 thru 425 aircraft!**

### Elevator Neutral Rigging Tool Replacement Parts

Part Number	Description
6409	.050"/1.3mm Hex Wrench
6870	Square Nut
6868-4	Pin, .188, Short
6868-3	Pin, .188, Long
6868-1	Pin, .209, Short
6868-2	Pin, .209, Long
6869-1	Pin, .250, Short
6869-2	Pin, .250, Long

### Note:

Refer to your Cessna maintenance manual to determine if your model requires the use of the elevator neutral rigging tool and follow its guidelines for proper pin selection and adjustment guidelines.



### Interesting History

Early Cessna aircraft control gust lock holes were aligned with the elevator in the neutral position. This hole placement created safety concerns after Cessna realized that it would be possible for a pilot to take off with the control lock in place, but the lack of control function would not allow for a safe climb rate. Cessna remedied this safety hazard, beginning in the late 1960's, by moving the hole on the control column closer to the yoke. This change prevents flight. With the hole placement moved, new tools were required to be fabricated to align the elevator in the neutral position during rigging.



**Valve Guide Cleaning Reamers for Lycoming Engines**

**New!**

**Why McFarlane Special Reamers?**

McFarlane now offers special reamers in the necessary sizes to clean your Lycoming engine exhaust valve guides per Lycoming Service Instruction 1425A. Standard reamers manufactured for aircraft valve guides are designed to perfect the guide hole size when reaming new guides. The standard reamer pilot is sized to fit the small bore of a new unfinished guide to insure stability and a straight finished bore. When this same type of reamer is used to clean the valve guides, the pilot is smaller than the finished hole. This causes the reamer to wander and misalign while it is being started and turned in the guide hole.

The McFarlane cleaning reamers have a pilot the same size as the valve stem. This properly sized pilot forces the reamer cutter to start straight and follow the correct valve stem path through the guide hole. **Finally, a tool that is designed for the job!**

While using standard reamers to clean valve guides, you probably have noticed that you have some valve guide metal in the reamer flutes afterwards. This metal is cut from the sides of the guide when hard carbon deposits displace the unguided reamer from the original guide hole, or the reamer was not started in alignment with the guide hole. Wavy or gouged guide holes cause premature carbon buildup, poor heat transfer, and early guide hole wear. Prevent damage to your valve guides by using McFarlane Cleaning Reamers!

**Features and Benefits**

- Discounted pricing for complete set
- Spiral flutes for a better guide finish
- Pilot sized specifically for cleaning
- Cutting pilot cleans guides without notching guide surfaces
- Constructed of precision ground, high speed tool steel



**Maintenance Tip:**

Lycoming suggests using ordinary cup grease on the flutes of the reamer to remove deposits with the reamer rather than allowing the deposits to fall into the cylinder.

Part Number	Diameter
VGR-LC-KT	Contains one of each sized reamer
VGR-LC1	0.404-0.405
VGR-LC2	0.437-0.438
VGR-LC3	0.4985-0.4995
VGR-LC4	0.4995-0.5005

**Note:** Reference Lycoming SSP-1776 and SSP-578 and the appropriate overhaul manual to determine which specific valve guide sizes you have and the required reamer size before purchasing the necessary cleaning reamer. Lycoming Mandatory Service Bulletin No. 388C requires exhaust valve guide cleaning every 300 hours for helicopter engines and every 400 hours for all other engines. McFarlane valve guide reamers are for cleaning carbon build-up only and must not be used for finish reaming of new valve guides.

**Pin Punch Set with Replaceable Tips  
Save Money on Repetitive Tool Replacement!  
P/N TOOL127**

**New!**

How many times have you reached into your toolbox for a pin punch only to find the tip bent or broken from the last job? McFarlane has the solution to this common problem. The **McFarlane pin punches** feature economical replaceable tips. Spare tips are even included with every set. Simply replace the tip as necessary. **No more wasted money on fragile pin punches!**

**Superior Material for Longer Tip Life**

Traditional pin punches easily bend or distort. McFarlane has solved this problem by using work hardened extra tough steel. McFarlane work hardened punches provide you with superior driving ability and break resistance.

**Features and Benefits**

- Convenient shadowed case
- Economical replacement tips
- Shock absorbing grip - stops "finger sting"
- Hardened tool steel handle
- Work hardened extra tough steel tips



**CAUTION**

**Always wear eye protection when using punches. Do not reuse broken punch tips.**

**Pin Punch Set Contents**

This convenient set includes three common pin punch sizes: 1/16", 3/32", and 1/8". Two long, four medium, and two short tips are included for each size. You can use a short stable tip to start driving the pin out and then change to a longer tip when you need more length to finish the job.

Replacement Tips		
Part Number	Description	Package Qty
704LR	Punch Refill, Long, 1/16"	5
704MR	Punch Refill, Med, 1/16"	5
704SR	Punch Refill, Short, 1/16"	5
706LR	Punch Refill, Long, 3/32"	5
706MR	Punch Refill, Med, 3/32"	5
706SR	Punch Refill, Short, 3/32"	5
707LR	Punch Refill, Long, 1/8"	5
707MR	Punch Refill, Med, 1/8"	5
707SR	Punch Refill, Short, 1/8"	5

## Vent Tube Adapter for Cessna Aircraft

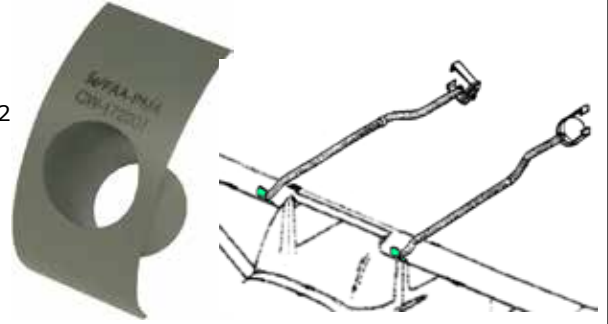
Improved vent tube adapter restores rear seat airflow

Part Number CW-172001

- Improved! Aluminum won't crack like the cheap OEM plastic adapters
- Direct replacement for Cessna P/Ns 0501030-2, 0700325-1 and 0700325-2
- Limited lifetime warranty
- Save up to 50%
- Two required per aircraft
- Includes installation instructions

For Cessna 172, 172A-Q, 172RG, FR172E-K, 175A-C, 180, 180A-E, 180G-J, 182, 182A, 182E, 185, 185A-E, 185E-F, 210-5 (205), 210B-E.

Manufactured by Wingate Aero & Fabrication LLC



## Alternator V-Belt for Piper Aircraft

Finally an approved belt at an affordable price!

Part Number MC73965-015

- High quality manufacture
- Direct replacement for P/Ns 10069-806, 452-541, 564-852, 73965-015 and 73965-15
- Save \$\$



Alternator V-Belt

Model	Serial Number
PA-28-151	All
PA-28-161	28-7716001 thru 28-8616057
PA-28-161	2816001 thru 2816119
PA-28-181	28-7690001 thru 28-8690062
PA-28-181	2890001 thru 2890231
PA-28-236	28-7911001 thru 28-8611008
PA-28R-201	2837001 thru 2837061
PA-28R-201	28R-7737002 thru 28R-7837317
PA-28R-201T	2803001 thru 2803012
PA-28R-201T	28R-7703001 thru 28R-7803373
PA-28RT-201	28R-7918001 thru 28R-8218026
PA-28RT-201T	2831001 thru 2831038
PA-28RT-201T	28R-7931001 thru 28R-8631005
PA-32RT-300	32R-7885002 thru 32R-7985106
PA-32RT-300T	32R-7787001 thru 32R-7987126

## Compression Tester Extension

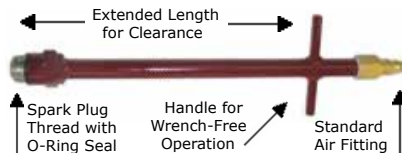
Part Numbers

EXTENSION CT1 (18mm thread)

EXTENSION CT12 (12mm thread)

EXTENSION CT14 (14mm thread)

- Wrench-free compression testing
- Quality welded construction, o-ring seal
- Allows for exhaust system and baffling clearance
- Makes compression testing easier
- Save time and \$\$



Manufactured by Baines Specialites LLC

## Pitot Heater Elements

Fits Piper PA-28-151 and PA-28-161 aircraft

- Each pitot tube requires two heaters
- Diameter of each part number is 3/16"



Part Number	Aircraft	Serial Number	Voltage	Power	Length
CA464-356	PA-28-151	All	14V	70 watts	3.25"
CA464-356	PA-28-161	2816001 thru 28-8216059	14V	70 watts	3.25"
CA464-357	PA-28-151	All	14V	100 watts	4.25"
CA464-357	PA-28-161	2816001 thru 28-8216059	14V	100 watts	4.25"
CA464-440	PA-28-161	All	28V	100 watts	4.25"
CA464-441	PA-28-161	All	28V	70 watts	3.25"

1 P/N CA464-357 and CA464-440 are installed at an angle within the pitot tube.  
2 Length is approximate

Manufactured by PMA Products Inc

## Buss Fuses

Hard to find 9/32" OD 4AG/AGS/ABS Series

The 4AG series fuses are commonly specified in older aircraft. About 30 years ago Buss superseded them to the obsolete AGS series fuses. Even this newer series, is now leaving many aircraft owners struggling to find replacements.

The AGS fuses are now being replaced by ceramic ABS series of fuses that have the same electrical and thermal performance.

McFarlane now has all three series (4AG, AGS, ABS) with a mix of new and new surplus fuses in stock.

Note: AGC series auto fuses are smaller (1/4" OD) and have different thermal properties than the 4AG/AGS/ABS fuses.

- Glass or ceramic tube, 9/32" X 1-1/4"
- P/Ns 4AG-#, AGS-#, or ABS-# Where # indicates current rating in Amps (1 to 40 Amps)
- Sold in packs of 5 each





**McFarlane Aircraft Pulley Oil**

- Does not dry out and get sticky
- Loosens old stiff pulley grease
- Save the labor of re-oiling the control system every year!



**Convenient Kits**

**PULLEY OIL KT**

- (1) Pint Can of Pulley Oil
- (1) Needle Oiler with Oil
- (1) 4.5" Oil Extension
- (1) 8" Oil Extension

**PULLEY OILER KT**

- (1) Needle Oiler with Oil
- (1) 4.5" Oil Extension
- (1) 8" Oil Extension

**PULLEY OIL**

- (1) Pint Can of Pulley Oil

**Nylon Washers**

- Protects the aluminum surfaces under cowl, spinners and fairing screws!
- High quality industry standard washers.
- These will not deform like soft washers.
- Sold in convenient 100 packs!

Part Numbers:

- NAS1515H04L
- NAS1515H06L
- NAS1515H08L
- NAS1515H3
- NAS1515H4



**AEROKROIL Penetrating Oil**

**Throw away your other penetrating oil! This stuff works!!**

- Loosens frozen metal parts
- Creeps into openings as small as one millionth of an inch!
- AEROKROIL will loosen the toughest stuck together or rusted metal parts.
- Use Kroil to loosen nuts, bolts, studs, screws, pulleys, shafts, bearings, pipe threads, valve guides, exhaust parts or any corroded metal parts.
- For industrial use only. AEROKROIL meets and exceeds military specifications AA50493 and VV-P-216.



**Standard Hardware**

AN, MS and NAS series. Please call or view online.



**Tempest Oil Filters**

AA48103-2, AA48104, AA48108-2, AA48109, AA48110-2



**Champion Lube Oil Filter Kit**

CFO-100-1



**Spark Plug Gasket**

MS17840-1 18mm solid copper



**Pitot Tube Screws**

P/N MS24693S224

- Replaces special extra fine thread AN507-640R4 screws
- Used on many pitot tube assemblies



**Sold in 10 packs!**

**Pilots View Plexiglas Cleaner**

**The best stuff out there!**

Use on GPS, avionics, plexiglas windows, and much more!

- Anti-static polish and protectant
- Will not scratch anything!
- Fast and easy



**Part Number LC27PV-1**

(1) 1 oz Spray Bottle

(1) 27 oz Spray Bottle

**Part Number LC01PV**

(1) 1 oz Spray Bottle

**Part Number LC27PV**

(1) 27 oz Spray Bottle

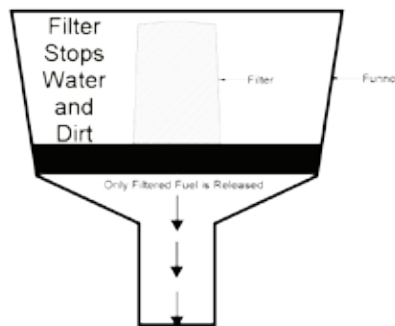
**Mr. Funnel**

Part Numbers F1C, F3C and F8C

Fuel filter funnel stops water and dirt. The Teflon coated stainless steel filter is so fine that water cannot get past it! Works with all aviation fuels, gasoline, diesel and kerosene.

- Tested and proven in rugged Arctic environment
- Expected 10 year life
- Fast flow rates
- Self cleaning lifetime filter
- Filter stops water and dirt
- Conductive plastic

Part Number	Size	GPM
F1C	6" X 3.5"	2.7 Gallons per minute
F3C	8.75" X 5.5"	3.5 Gallons per minute
F8C	10" X 8.5"	5.0 Gallons per minute



**McFarlane Cap**

Embroidered twill cap. \$6.99

**High quality!**



**McFarlane T-Shirt**

- 50/50 Cotton/Polyester by Hanes or Fruit of the Loom.
- Available in sizes S, M, L, XL \$6.99.
- Also available in 2X, 3X and 4X.



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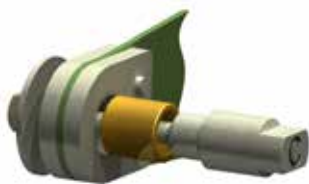
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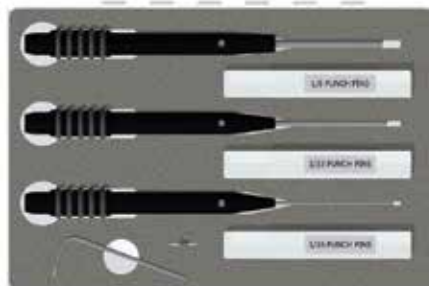
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Pages 94-96

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