

# CLEVELAND WHEELS & BRAKES



## CLEVELAND WHEELS & BRAKES FOR HOMEBUILTS

Wheels with matching hydraulic disc brakes are made from magnesium alloy castings to give a lightweight, durable unit. Wheels

complete with bearings and wheel covers. Brake assembly has linings installed. Sold in pairs only.

**500 x 5**, Wt. 5.75 Lbs. Each (Wheel P/N 40-78B, Brake P/N 30-9)  
 Kit P/N 199-102 (Std. Disc)..... /Pr  
 Kit P/N 199-102C (Chrome Disc)..... /Pr  
 Use Lining P/N 66-106. Fits 1-1/4" dia. axles.

**600 x 6**, Wt. 7-3/4 Lbs. Each (Wheel P/N 40-59A, Brake P/N 30-59A)  
 Kit P/N 199-104 (Std. Disc)..... /Pr  
 Kit P/N 199-104C (Chrome Disc)..... /Pr  
 Use Lining P/N 66-112. Fits 1-1/2" dia. axles.

**600 x 6**, with Master Cylinders for Defiant  
 Special set consists of (2) P/N 40-75B wheels, (2) P/N 30-52 brake assemblies and (2) P/N 10-34 master cylinders.  
 P/N 199-133X .....

**500 x 5 NOSE WHEEL** - Magnesium, with bearings.  
 For 1-1/4" dia. axle..... P/N 40-77C .....

**600 x 6 NOSE WHEEL** - Anodized aluminum, with bearings.  
 For 1-1/2" dia. axle..... P/N 40-56.....



## HEAVY-DUTY CLEVELAND WHEELS & BRAKES FOR HOMEBUILTS

The heavier-duty brake discs, linings and hardware in these kits will increase braking capacity for the heavier, faster-landing aircraft now being designed & built.

**#199-93 UPGRADE KIT** - For #199-102 standard wheels and brakes. Upgrades current 40-78B/ 30-9 to new 40-230/30-181 specs. Consists of #66-106 linings, discs, shims, bolts, rivets and nameplates for 2 wheels & brakes.  
 P/N 199-93 .....

**#199-156 KIT FOR VARIEZE (AIRCRAFT TO 1500 LBS)** - Kit consists of two 40-230 wheel assemblies and two 30-181 brake assemblies. Uses #66-106 linings. Fits 1-1/4" dia. axles.  
 P/N 199-156 .....

**#199-152 KIT FOR LONG-EZ & COZY (AIRCRAFT TO 2200 LBS)** - Kit contains two 40-151 wheel assemblies and two 30-133 brake assemblies. Uses #66-55 linings. Fits 1-1/4" dia. axles.  
 P/N 199-152 .....



## CLEVELAND WHEELS & BRAKES FOR AMPHIBIANS

Although magnesium wheels and brakes are considerably lighter, magnesium is subject to corrosion and should not be used for amphibious operation. Only organic linings should be used on all brakes. All parts of the 500 x 5 size wheels and brakes for amphibians are constructed of anodized aluminum for water resistance. Although a special 40-74 series of 600 x 6 wheels and brakes are manufactured for amphibious use, with chrome plated bearings and brake disc and water drainage holes, they are too costly for use on homebuilt aircraft.

The use of standard Cleveland aluminum wheels with standard bearings on amphibian aircraft is suggested. If bearings are kept well greased, reasonable service can be expected, but earlier bearing replacement should be anticipated.

**500 x 5 (Anodized Aluminum)**  
 Kit P/N 199-103 (Std. Disc) ..... Pr  
 Kit P/N 199-103C (Chrome Disc) ..... Pr

**600 x 6 (Anodized Aluminum)**  
 Kit P/N 199-105 (Std. Disc) ..... Pr  
 Kit P/N 199-105C (Chrome Disc) ..... Pr

**500 x 5 ALUMINUM NOSE WHEEL**, P/N 40-87C.....

## AEROSHELL GREASE FOR WHEEL BEARINGS

Aeroshell #22 grease is recommended for lubrication of Cleveland wheel bearings and is also applicable to other similar wheel bearings. Meets Mil-G-81322.  
 14 oz. tube.....P/N 08-05490 .....

## CLEVELAND HOMEBUILDERS SPECIAL WHEEL & BRAKE SET PACKAGES



**PACKAGE NO. 1** - Includes 2 Cleveland 5.00-5 magnesium wheels & brakes plus (2) 6 ply tires & tubes. (Wt. approx. 28 lbs.)

A w/McCreary Air Trac Tires & Tubes ..... P/N 06-00100  
 ..... B w/Goodyear Flight Custom II Tires (Goodyear's latest design)  
 P/N 06-00200 .....

C w/Lamb Tires & Tubes (11.400 x 5) P/N 06-00300 .....

**PACKAGE NO. 2** - Package No. 1 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 30 lbs.)

A w/McCreary Air Trac Tires & Tubes..... P/N 06-00400 .....

B w/G.Year Flight CustomII Tires & Tubes.. P/N 06-00500 .....

C w/Lamb Tires & Tubes (11.400x5)..... P/N 06-00600 .....

**PACKAGE NO. 3** - Includes 2 Cleveland 6.00-6 magnesium wheels and brakes plus two 4 ply tires and tubes. (Wt. approx. 32 lbs.)

A w/McCreary Air Trac Tires & Tubes..... P/N 06-00700 .....

B w/G.Year Flight CustomII Tires & Tubes.. P/N 06-00800 .....

**PACKAGE NO. 4** - Package No. 3 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 34 lbs.)

A w/McCreary Air Trac Tires & Tubes..... P/N 06-00900 .....

B w/G.Year Flight Custom II Tires & Tubes.. P/N 06-01000 .....

**PACKAGE NO. 5** - Includes 2 Cleveland 6.00-6 magnesium wheels & brakes plus two low-profile lightweight 6-ply 15x6.00-6 tires & tubes. (Wt. approx. 32 lbs.)

A w/McCreary Air Trac Tires & Tubes..... P/N 06-01100 .....

B w/G.Year Flight Custom II Tires & Tubes.. P/N 06-01200 .....

**PACKAGE NO. 6** - Package No. 5 plus 2 Cleveland #10-35 master cylinders. (Wt. approx. 34 lbs.)

A w/McCreary Air Trac Tires & Tubes..... P/N 06-01300 .....

B w/G.Year Flight Custom II Tires & Tubes.. P/N 06-01400 .....

**PACKAGE NO. 7 FOR DEFIANT** - Includes 2 Cleveland 6.00-6 magnesium wheels & brakes (P/N 199-133X) plus (2) 6.00-6 McCreary 6 ply tires & tubes plus 2 master cylinders..... P/N 06-01500 .....

## HEGAR WHEEL KITS



Spun aluminum wheel kit includes aluminum wheel halves, hubs, 5/8 bearings, valve, tubeless kit and all necessary hardware. Compatible with Hegar brakes.

**Note: Order tires separately.**

4X6 Offset rim.....P/N 06-00318 .....

4X6 Symmetrical(Quicksilver®).....P/N 06-00319 .....

5X6 Offset rim ..... P/N 06-00320 .....

5X6 Symmetrical (Quicksilver®) ..... P/N 06-00321 .....

6X6 Offset rim ..... P/N 06-00322 .....

6X6 Symmetrical (Quicksilver®).....P/N 06-00323 .....

The following Hegar wheels are designed to fit Quicksilver® nose gear allowing clearance for the steering fork.

3.5X5 MX(L) Nose Wheel ..... P/N 06-00324 .....

3.5X6 MX(L) Nose Wheel ..... P/N 06-00325 .....

## HEGAR SPUN AND BILLET



## ALUMINUM WHEELS WITH BRAKES 6" SPUN ALUMINUM WHEEL

- Includes. 2 - 6" spun aluminum wheels. 2 - 5" calipers and 4-1/2" rotors. all lines and fittings. axles included 5/8" or 3/4". 5/8" precision ball bearings are 800 GVW. 3/4" precision ball bearings are 1100 GVW. Note: To be run tubeless, but tubes may be used. 3-3/4 lbs. per side wheel and brake.

6S X 4 - 4" Wide Wheel X 6" Diameter..... P/N 06-01268 .....

6S X 5 - 5" Wide Wheel X 6" Diameter..... P/N 06-01269 .....

6S X 6 - 6" Wide Wheel X 6" Diameter..... P/N 06-01270 .....

**6" BILLET ALUMINUM WHEEL** - 6B X 5 W/ 5" Brake Assembly. kit includes. 2 - 6" billet aluminum wheels. 2 - calipers and 4-1/2" rotors. all lines and fittings. 3/4" axles included. 3/4" precision all bearings 1500 GVW. Note: Uses tube with 90° valve stem.... P/N 06-01271 .....

**6" BILLET ALUMINUM WHEEL** - 6B X 5 W/ 6-3/8" Brake Assembly. kit includes. 2 - 6" billet aluminum wheels. 2 - calipers and 6-3/4" rotors. all lines and fittings. 1-1/4" precision ball bearings 1800 GVW per set. 3/4" precision ball bearings 1500 GVW per set. Note: Retro fits Cleveland brakes. Uses tubes with 90° valve stem. .... P/N 06-01272 .....

**5" BILLET ALUMINUM WHEEL** - 5B X 5 W/ 6-3/8" Brake Assembly. kit includes. 2 - 5" billet aluminum wheels. 2 - calipers and 6-3/8" rotors. all lines and fittings. 1-1/4" precision ball bearings 1800 GVW per set. 3/4" precision ball bearings 1500 GVW per set. Note: Retro fits Cleveland brakes. Uses a tube with 90° valve stem ..... P/N 06-01273.....

## HEGAR EXTERNAL DISC BRAKES

Heavy duty hydraulic external disk brakes for use with all Hegar wheels. Black anodized billet aluminum, 1/8" thick steel disk. Set includes 15 feet of high pressure nylon brake line, fluid with bleeder kit, and fittings. Axles and master cylinders must be ordered separately. Specify 5/8" or 3/4" bearings.  
 P/N 06-00326 .....

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# MATCO WHEELS & BRAKES

**NOTE: Our prices include 2 wheels and 2 brakes (set)**

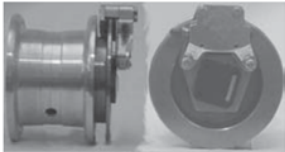
## W51LT/LXT



The W51LT/LXT is a 5" wheel with a 4.775" width with an additional 1.23 inch caliper spacing. Bearing spacing is 3.084" and axle spacing is 1.00". The total weight of this wheel and brake assembly is 9.2 Lbs. The bearing axle diameter is 1.25". Torque rating is 4266 in-lb for the W51LT and is 6143 in-lb for the W51LXT. W51LT is recommended for Cozy Mark IV and the W51LXT is used on the Glasair.

W51LT .....	P/N 06-00079 .....
W51LT w/axles .....	P/N 06-00568 .....
W51LXT .....	P/N 06-00412 .....
W51LXT w/axles .....	P/N 06-00569 .....

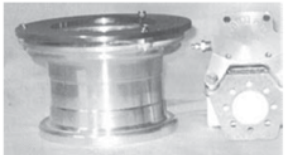
## WE51



The WE51 is a 5" wheel with 4.3" width with an additional 1.39" caliper spacing. Bearing spacing is 3.27" and axle spacing is 0.945". The total weight of this wheel and brake assembly is 7.5 lbs. The bearing axle diameter is 1.25". Torque Rating (@450 PSI): 2085 inlb. Any 500X5 tire and tube combination can be used with this tire.

WE51 .....	P/N 06-00445 .....
WE51 w/axles .....	P/N 06-00570 .....

## W51L



MATCO mfg produces a superior 5" wheel and brake assembly for use with aircraft requiring less than 1420 lbs per wheel. This model uses 1.25" TAPER/ROLL bearings. The W51L is a 5" wheel with 4.6" width with an additional 1.23" caliper spacing. Bearing spacing is 3.084" and axle spacing is 1.285". The total weight of this wheel and brake assembly is 6.6 lbs. The bearing axle diameter is 1.25".

W51L .....	P/N 06-01710 .....
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## W50CC



The W50CC is a 5" wheel with a 3.7" width with an additional 1.75" caliper spacing. Bearing Spacing is 3.0" and axle spacing is 2.5". The total weight of this wheel and brake assembly is 4.5 lbs. excluding the axle assembly. This wheel uses a "Lamb" type tire which is 11x400x5 and requires a tube with a 90 degree valve stem. Torque Rating (@450 PSI): 1540 in-lb.

W50CC .....	P/N 06-00470 .....
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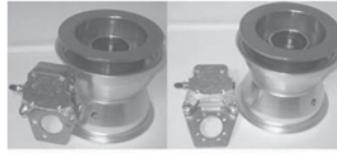
## W60CC .625

Matco mfg produces a superior inch wheel and brake assembly for use with aircraft requiring less than lbs per wheel. This model uses inch bearings.

This is a W60CCD .625 is a 6" inch wheel. The bearing axle diameter is .625 inches.

P/N 06-00938.....	
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## MMHE6B

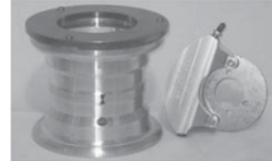


MHE6B-SC MHE6B

The MHE6B E SERIES is a 6" wheel with 5.375" width with an additional 1.39 inch caliper spacing. Bearing spacing is 2.71" and axle spacing is 0.68". The total weight of this wheel and brake assembly is 5.8 lbs. The bearing axle diameter is 1.25". Use on various light support aircraft. Torque Rating (@450 PSI): 2085 in-lb. Order axles separately.

MHE6B.....	P/N 06-00444 .....
MHE6BSC.....	P/N 06-00443 .....

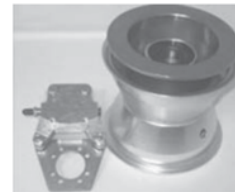
## W600XT



The W600XT is a 6" wheel with 6.3125" width with an additional 1.37" caliper spacing. Bearing spacing is 3.42" and axle spacing is 1.78". The total weight of this wheel and brake assembly is 11.9 lbs. The bearing axle diameter is 1.50". Torque Rating (@450 PSI): 6441 inlb. Static Capacity: 1860 lbs. Load Limit: 5580 lbs. Order axles separately.

W600XT .....	P/N 06-00413 .....
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## MH6B



The MH6B is a 6" wheel with 5.375" width with an additional 1.24" caliper spacing. Bearing spacing is 2" and axle spacing is 2". The total weight of this wheel and brake assembly is 4.4 lbs. The bearing axle diameter is 0.625". The NEW MH6B is now produced as a CNC spun wheel with a Tenzalloy hub center and a NEW higher torque caliper. Torque Rating (@450 PSI):1540 in-lb. StaticCapacity:660 lbs.

MH6B .....	P/N 06-16810 .....
MH6B-S .....	P/N 06-00447 .....

## W60



MATCO mfg produces a superior 6" wheel and brake assembly for use with aircraft requiring less than 1420 lbs per wheel. This model uses 1.25" TAPER/ROLL bearings. The W60 is a 6" wheel with 4.375" width with an additional 1.23" caliper spacing. Bearing spacing is 2.5" and axle spacing is 1.25". The total weight of this wheel and brake assembly is 7.1 lbs. The bearing axle diameter is 1.25".

W60.....	P/N 06-02160 .....
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## W60CC .75



Matco mfg produces a superior 6" inch wheel and brake assembly for use with aircraft requiring less than 660 lbs per wheel. This model uses 0.75 inch BALL bearings. (Check the product comparison table for other bearing and caliper configurations).

The W60CCD.75 is a 6" inch wheel with 4.38 inch width with an additional 1.75 inch caliper spacing. Bearing spacing is 3 inches and axle spacing is 1 inches. The total weight of this

wheel and brake assembly is 5.55 pounds. The bearing axle diameter is 0.75 inches.

P/N 06-00939 .....	
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# MATCO WHEELS & BRAKES

NOTE: Our prices include 2 wheels and 2 brakes (set)

Matco Part No	Aircraft Spruce	Bearing Axle Dia. BB=Ball TRB=Taper Roll	Load Limit (lbs.)	Static Capacity (lbs.)	Brake Recline Kit	Weight (lbs.)	Tire Size	Tire Type	Price
<b>CNC SPUN WHEELS: INTERNAL CALIPER</b>									
MH6B	06-16810	0.625BB	2000	660	BRL-2	4.4	6"	any 6"	.
MH6B-S	06-00447	0.625BB	2000	660	BRL-2	4.4	6"	any 6"	.
MH6B.62D	06-00448	0.625BB	2000	660	BRL-3	4.65	6"	any 6"	.
MH6B.62D-S	06-00449	0.625BB	2000	660	BRL-3	4.65	6"	any 6"	.
MH6B.75	06-00450	0.75BB	2000	660	BRL-2	4.4	6"	any 6"	.
MH6B.75-S	06-00453	0.75BB	2000	660	BRL-2	4.4	6"	any 6"	.
MH6B.75D	06-00451	0.75BB	2000	660	BRL-3	4.65	6"	any 6"	.
MH6B.75D-S	06-00452	0.75BB	2000	660	BRL-3	4.65	6"	any 6"	.
MH6BD.62	06-00454	0.625BB	2000	660	2BRL-2	5.18	6"	any 6"	.
MH6BD.62-S	06-00455	0.625BB	2000	660	2BRL-2	5.18	6"	any 6"	.
MH6BD.75	06-00456	0.75BB	2000	660	2BRL-2	5.18	6"	any 6"	.
MH6BD.75-S	06-00457	0.75BB	2000	660	2BRL-2	5.18	6"	any 6"	.
<b>CNC SPUN WHEELS: EXTERNAL CALIPER</b>									
MHE6B1.25	06-00444	1.25TRB	2700	900	BRL-1	5.8	6"	up to 6.00-6	.
MHE6B1.25-C	06-00443	1.25TRB	2700	900	BRL-1	5.8	6"	up to 6.00-6	.
<b>CENTRIFUGALLY CAST WHEELS: INTERNAL CALIPER</b>									
W40B	06-00458	0.625BB	2000	660	BRL-2	4.05	4"	any 4"	.
W40-BDXT	06-00459	0.75BB	3560	1185	BRL-2	3.8	4"	2.80/2.50x4	.
W40R	06-02210	0.75BB	3560	1185	BRL-2	4.05	4"	any 4"	.
W50L	06-01860	0.625BB	2000	660	BRL-1	6.6	5"	11.0x4.05	.
W50L.75	06-00833	0.75BB	2000	660	BRL-1	6.6	5"	11.0x4.05	.
W50LD	06-00411	1.25BB	4260	1420	2BRL-1	8.9	5"	11.0x4.05	.
W50LT	06-00461	1.25BB	4260	1420	BRL-6	9.2	5"	11.0x4.05	.
W50LXT	06-00462	1.25BB	1420	4260	BRL-6	9.2	5"	11.0x4.05	.
W50S1.25	06-01660	1.25BB	4260	1420	BRL-1	6.6	5"	11.0x4.05	.
W50S.75	06-00463	0.75BB	4260	1185	BRL-1	6.6	5"	11.0x4.05	.
W51L	06-01710	1.25BB	4260	1420	BRL-1	6.6	5"	5.00x5	.
W51LD	06-00464	1.25BB	4260	1420	2BRL-1	8.9	5"	5.00x5	.
W51LT	06-00079	1.25BB	4260	1420	BRL-6	9.2	5"	5.00x5	.
W51LXT	06-00412	1.25BB	4260	1420	BRL-6	9.2	5"	5.00x5	.
W51S1.25	06-01960	1.25BB	4260	1420	BRL-1	6.6	5"	5.00x5	.
W62	06-02110	0.75BB	3560	1185	BRL-1	7	6"	any 6"	.
F602	06-00465	0.75BB	3560	1185	BRL-1	7.8	6"	any 6"	.
W60	06-02160	1.25BB	4260	1420	BRL-1	7.1	6"	any 6"	.
F600	06-00466	1.25BB	4260	1420	BRL-1	7.8	6"	any 6"	.
W600	06-00467	1.5TRB	5580	1860	BRL-6	11.9	6"	any 6"	.
W600XT	06-00413	1.5TRB	5580	1860	BRL-6	11.9	6"	any 6"	.
W600XLT	06-00468	1.5TRB	5580	1860	BRL-6	10.2	6"	any 6"	.
W323A	06-00469	1.5TRB	5580	1860	BRL-323	13.75	6"	any 6"	.
<b>CENTRIFUGALLY CAST WEELS: EXTERNAL CALIPER</b>									
WE51	06-00445	1.25TRB	4260	1420	BRL-1	7.5	6"	5.00x5	.

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# MATCO WHEELS & BRAKES

## MATCO DIECAST WHEELS

NOTE: Our prices include 2 wheels and 2 brakes (set); Bearing Axle: BB=Ball TRB=Taper Roll

Matco P/N	Our P/N	Bearing Axle Dia.	Load Limit (lbs.)	Static Cap.(lbs.)	Brake ReLine Kit	Weight (lbs.)	Tire Size	Tire Type	Price
W50CC	06-00470	0.625BB	2000	660	BRL-2	4.57	5"	11.0 x 4.05	.
W50CC.62D	06-00471	0.625BB	2000	660	BRL-3	4.82	5"	11.0 x 4.05	.
W50CC.75	06-00472	0.75BB	2000	660	BRL-2	4.57	5"	11.0 x 4.05	.
W50CC.75D	06-00473	0.75BB	2000	660	BRL-3	4.82	5"	11.0 x 4.05	.
W50CCD.75	06-00474	0.75BB	2000	660	2 BRL-2	5.35	5"	11.0 x 4.05	.
W50DCC.62	06-00475	0.625BB	2000	660	2 BRL-2	5.35	5"	11.0 x 4.05	.
W51CC	06-00476	0.625BB	2000	660	BRL-2	4.57	5"	5.00-5	.
W51CC.62D	06-00477	0.625BB	2000	660	2 BRL-3	4.82	5"	5.00-5	.
W51CC.75	06-00478	0.75BB	2000	660	2 BRL-2	4.57	5"	5.00-5	.
W51CC.75D	06-00479	0.75BB	2000	660	2 BRL-3	4.82	5"	5.00-5	.
W51CCD.75	06-00480	0.75BB	2000	660	2 BRL-2	5.35	5"	5.00-5	.
W51DCC.62	06-00481	0.625BB	2000	660	2 BRL-2	5.35	5"	5.00-5	.
W60CC	06-00482	0.625BB	2000	660	BRL-2	5.55	6"	up to 6.00-6	.
W60CC.75	06-00483	0.75BB	2000	660	BRL-2	5.55	6"	up to 6.00-6	.
W600CC	06-00484	0.625BB	2000	660	BRL-2	5.85	6"	any 6 "	.
W600CC.75	06-00485	0.75BB	2000	660	BRL-2	5.85	6"	any 6 "	.
W60CCD.62	06-00486	0.625BB	2000	660	2 BRL-2	5.55	6"	up to 6.00-6	.
W60CCD.75	06-00487	0.75BB	2000	660	2 BRL-2	5.55	6"	up to 6.00-6	.
W600CCD.62	06-00488	0.625BB	2000	660	2 BRL-2	5.85	6"	any 6 "	.
W600CCD.75	06-00489	0.75BB	2000	660	2 BRL-2	5.85	6"	any 6 "	.
W60CC.75R	06-00490	0.75TRB	2000	1185	BRL-2	5.85	6"	up to 6.00-6	.
W600CC.75R	06-00491	0.75TRB	2000	1185	BRL-2	6.15	6"	any 6 "	.
W60CCD.75R	06-00492	0.75TRB	2000	1185	2 BRL-2	6.25	6"	up to 6.00-6	.
W600CCD.75R	06-00493	0.75TRB	2000	1185	2 BRL-2	6.55	6"	any 6 "	.
W80CC-Z	06-00494	0.625BB	2000	660	BRL-1	8.75	6"	4.80-8	.

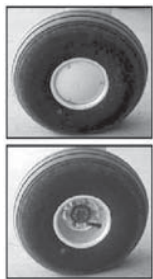


## MATCO AXLE CHART

Matco P/N	Aircraft Spruce P/N	Dia. (In.)	Used on Models	Axle Assy	Comment	Axle Price	Assy Price
A1	06-00495	1.25	W50, W51	AXLE1	AL Flange Mount	.	.
A1A	06-00496	1.25	W50LD,W51LD,W50LT,W50LXT,W51LT,W51LXT	AXLE1A	AL Flange Mount	.	.
A1B	06-00497	1.25	WE51	AXLE1B	AL Flange Mount	.	.
A2	06-00498	1.25	W50S,W51S	AXLE2	AL Flange Mount	.	.
A3	06-00499	1.25	W60	AXLE3	AL Flange Mount	.	.
A3A	06-00501	1.25	MHE6B	AXLE3A	AL Flange Mount 5" Cessna bolt pattern	.	.
A3C	06-00502	1.25	MHE6B	AXLE3C	AL Flange Mount 6" Cessna bolt pattern	.	.
A4	06-16830	0.625	MHE6B,W50CC,W60CC,W40B	AXLE4	Steel Tube	.	.
A5	06-00503	0.75	W40BD	AXLE5	AL Flange Mount	.	.
A5G	06-00504	20mm	W40M	AXLE5G	Steel Flange Mount	.	.
A6	06-00505	1.5	W600,W600XT,WW600XLT	AXLE6	AL Flange Mount	.	.
A6M	06-00506	1.5	W600,W600XT,WW600XLT	AXLE6M	A6 Alternate Mount Ver.	.	.
A7	06-00507	0.75	MH6B,W50CC,W60CC,W40B	AXLE7	Steel Tube Mount	.	.
A8	06-00508	0.75	W62,MH6B.75,W50CC.7 MH6B5,260CC.75	AXLE8	Steel Tube	.	.
A13	06-00509	0.625	W80CC-Z	AXLE13	Steel Tube for Fork Mount	.	.
A15	06-00510	1.5	W323A	AXLE15	For W323A Compound W&B	.	.
A15M	06-00511	1.5	W323SA	AXLE15M	For W3238A Compound W&B	.	.
A16	06-00512	0.75	F602	AXLE16	Steel Tube for W62 w/F602 Spacer	.	.
A17	06-00513	0.75	W600CC.75	AXLE17	Steel Tube	.	.
A19	06-00514	0.75	W600CC.75R	AXLE19	Steel Tube	.	.
A20	06-00515	0.75	NW50.75R,NW51.75R	AXLE20	Steel Tube w/Spacers for Zenith 601	.	.



# WHEELS & BRAKES



## MATCO HUB CAP KIT FOR MH SERIES WHEELS

Responding to customer inquiries for a kit to allow installation of the current WHLWC wheel cover on MH series wheels, MATCO mfg has introduced the MHWC hub cap kit. The kit includes wheel covers and mounting hardware for 2 wheels. The WHLWC wheel covers are made from durable ABS polymer. The wheel covers can be painted to match customer requirements. Installation can be accomplished without removing the wheel. Installation on MH wheels using the CNC spun wheel halves (introduced in early 2001) can be accomplished in about 10 minutes. On earlier MH series wheels using stamped wheel halves, some trimming of the wheel cover may be required and installation may require about 30 minutes. Furnished unpainted. 2 wheel kit. P/N 06-00446.....

## MATCO BRAKE RELINE KITS

Reline kits include linings and rivets for 2 calipers.



Matco Part No.	Our Part No.	Lining Model Used	Price each
BRL-1	06-00571	4 of M66-106	.
BRL-2	06-00572	4 of M66-103	.
BRL-3	06-00573	4 of M66-1052	.
BRL-6	06-00574	4 of M66-1052	.
BRL-323	06-00575	4 of DR323	.

## MATCO TUBING & FITTINGS

Matco Part No.	Our Part No.	Description	Price
MSCNNR4/035	06-01133	Nylon II Tube .25	
MSC261P	06-01134	Ferrule and Nut	
MSC262P	06-01135	Union, Brass Fitting	
MSC264P	06-01136	T-Fitting, 1/8" NPT - 1/4" Compression Parker #X164p-4	
MSC268P	06-01137	Straight fitting, 1/8" NPT - 1/4" Compression	
MSC268P-04X01	06-01138	Straight Fitting 1/16"	
MSC269P	06-01139	Brass Elbow, 90° 1/8" NPT - 1/4" Compression	
MSCNNR2/026	06-01140	Nylon II Tube .125	
MSC161P	06-01141	1/8" Ferrule and Nut	
MSC164P	06-01142	T-Fitting, 1/8" NPT - 1/8" Compression	
MSC168P	06-01143	Straight Fitting, 1/8" NPT - 1/8" Compression	
MSC169P	06-01144	Brass Elbow, 90°, 1/8" NPT - 1/8" Compression	

## MATCO 6" WHEELS & BRAKES FOR ULTRALIGHTS



This top quality wheel and brake set is excellent for use on high-performance ultralights. Set incl.: 2 aluminum wheels & brakes with 5/8" bearings, 2 axles, 2 spacers, 2 brake bleeder seats & valves, 4 brake line fittings, 12 ft. of 1/4" dia. x .035 wall brake line & 1 vertical master cylinder.

P/N 06-16800.....  
Same as set #06-16800 except with 2 vertical master cylinders P/N 06-16840.....  
Same as set #06-16800 except with 1 laydown style master cylinder P/N 06-16850.....  
Same as set #06-16800 except with 2 laydown style master cylinders P/N 06-16860.....

### AVAILABLE SEPARATELY:

6" Wheel & Brake ..... P/N 06-16810.....  
5" Nose wheel with 5/8" Bearings ..... P/N 06-16820.....  
A-4 Axle, 9.75" Long, 5/8" Dia. .... P/N 06-16830.....

## JDM WHEELS, BRAKES AND AXLES



A quality built 6" wheel & brake designed for the homebuilt and ultralight flyer. Rated up to 2500 lbs. gross weight, these wheels easily accommodate 800 series tires for off-field landings and 600 series tires for low profile and an increase in speed. The brake disks made of cast iron provide for longevity and superior heat dissipation, while using Rapco brake pads to finish the system. The axles are 1-1/4" aluminum and use a 1-3/8" square bolt pattern. The kit does not include master cylinders, brake fluid line or axles and nuts. Each JDM brake and wheel including the axle weigh only 10.3 lbs. Kit includes 1 wheel and 1 brake. 6" wheel & Brake Assembly\* (1-1/4" Tapered Roller Bearing)

P/N 06-03475 ..... ea  
1-1/4" Axle & Castle Nut..... P/N 06-03480..... ea

## AZUSA LITE NYLON WHEELS 4, 5 AND 6 INCH MODELS



Azusalite wheels are made from engineering grade Nylon which combines high tensile and compressive strengths and good impact resistance. Excellent for many homebuilt and ultralight aircraft applications since they weigh 60-70% less than aluminum wheels. Azusalite wheels are offered in 4", 5" and 6" models. Replacement parts and unlisted accessories available on request.

**AZUSALITE 5" WHEEL** - Used as the main wheels on the Mohawk ultralight, this 5 inch wheel features 5/8" I.D. sealed ball bearings and uses a 4.10 / 3.50 x 5 or 5.00 x 5 tire and tube. P/N 06-02500.....

**AZUSALITE 4" WHEEL** - A 4 inch Azusalite wheel featuring 5/8" sealed ball bearings. Uses a 4.10 / 3.50 x 4 tire and tube. P/N 06-02600.....

**AZUSALITE 6" WHEEL** - A 6 inch Azusalite wheel which comes complete with 5/8" sealed ball bearings. Uses a 4.10 / 3.50-6 or a 6.00-6 tire and tube. P/N 06-02700.....

**AZUSA TIRES & TUBES (Sawtooth Tread)**  
4 .10 / 3.50 x 4 Tire & Tube Assembly ..... P/N 06-02800 ..... Ea  
4 .10 / 3.50 x 5 Tire & Tube Assembly ..... P/N 06-02900 ..... Ea  
4.10 / 3.50 x 6 Tire & Tube Assembly..... P/N 06-03000 ..... Ea  
4.80 x 4.00 x 8 Tire & Tube Assembly..... P/N 06-03010 ..... Ea



## AZUSA ALUMINUM WHEELS

**5" AZUSA ALUMINUM WHEEL** - Complete with 5/8" I.D. sealed bearing. P/N 1144.....

**5" AZUSA ALUMINUM WHEEL & BRAKE KIT** - Kit consists of (2) #1144 wheels with 5/8" sealed bearings, (2) #2270 aluminum Azusa brakes, (2) #2211 brake drums (2) 11.400-5, 6-ply Lamb tires and Azusa #7131 (2) 340/300 x 5 tubes. P/N 06-03100.....

**5" AZUSA ALUMINUM WHEEL** - Complete with 3/4" bearing. P/N 06-00376.....

**6" AZUSA ALUMINUM WHEEL** - Complete with 5/8" I.D. sealed bearings. Wt. 3.9 lbs. P/N 06-03200.....

**6" AZUSA ALUMINUM WHEEL** - Complete with 5/8" I.D. Timken bearings. Wt. 4.1 lbs. P/N 06-03300.....

**6" AZUSA ALUMINUM WHEEL** - Complete with 3/4" I.D. Timken bearings. Wt. 4.2 lbs. P/N 06-03400.....

**8" AZUSA ALUMINUM WHEEL & BRAKE KIT** - Kit consists of (2) #1175 wheels, (2)#2530 brakes, (2)#2542 drums, (2)4.80 x 4.00 tires and tubes, & hardware. P/N 06-03410.....

## AZUSA BRAKES FOR AZUSA 5" & 6" WHEELS

These 4.5" brakes have a long actuating arm, 5/8" mounting hole, and bonded lining. Available in anchor style w/ built-in anchor & 2 cable mounting ears, or round style which features a round aluminum backing plate. Platform required w/ 5" Azusalite.

P/N	Description	Price
06-03415	Anchor Style Brake #2208	
06-03420	Round Style Brake #2270A	
01-00169	Brake Assy. 2272A (Right)	
01-00306	Brake Assy. 2272A (Left)	
06-03425	Brake Arm #2263	
06-03430	Spring #2264	
06-03435	Cam #8235	
06-03440	Platform #2259A	
06-03445	Lined Shoes (1/side) #2260	

## AZUSA BRAKES FOR AZUSA 8" WHEELS

These 5" brakes are used on Azusa #1175 wheels only. Features a round aluminum backing plate and actuating arm which allows for 8 positions.

P/N	Description	Price
06-03450	Round Style Brake #2530	
06-03455	Brake Arm #2537	
06-03460	Spring #2539	
06-03465	Cam #2533	
06-03470	Lined Shoes (1/side) #2538	

# GROVE MASTER BRAKE CYLINDERS



Clevis End—3/16" hole, 1/4" wide slot



Eye Bolt End—3/16" hole, 1/2" head diameter



Eye Bolt End - 3/16" hole, 3/8" head diameter

These master cylinders are the perfect choice for all Grove brake systems as well as use with other major brands that require a high pressure master cylinder. Consider the following when selecting the proper master cylinder for your aircraft:

1. The style (with or without integral reservoir, etc.)
2. The pin-to-pin length—this is the length between the upper and lower attach holes.
3. The attach type for the upper end (clevis, or eye bolt)
4. The attach type for the lower end (cross drilled, slotted, etc.)



Cross Drilled - 3/16" holes inline with fitting and also 90° to fitting



90° Offset - 3/16" hole drilled 90° to fitting. Tab is inline with fitting.



Inline - 3/16" hole drilled inline with fitting. Tab is offset 90° to fitting



Slotted - 0.090" slot inline with fitting. 3/16" hole drilled 90° to fitting.



Right Offset Tab 3/16" hole drilled 90° to fitting



Left Offset Tab 3/16" hole drilled 90° to fitting

## REMOTE BRAKE FLUID RESERVOIRS

Quality machined from 6061 billet. Top is retained by snap ring with O-ring seal. Supplied with vented 1/8" NPT cap plug. Anodized for corrosion resistance.



2.75" high Holds 2.42 fluid ozs. Weighs 3.6 ounces.



Normal installation requires two (one for each master cylinder.) Supplied with 1/8" NPT fitting. Attaches directly to your master cylinder. 1.98" high; 1.38" diameter Holds 1.10 fluid ounces. Weighs 1.5 ounces.



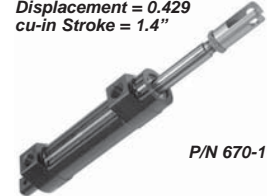
Designed to attach to firewall or other remote location. Adequate capacity to serve both master cylinders. Outlet has 1/8" female NPT thread at bottom of reservoir.

067-054 ..... P/N 06-00819.....

067-050 ..... P/N 06-00818.....

Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
670-1	06-00594	7.5"	Clevis	Inline	5.9 oz.	.
670-2	06-00866	8.0"	Clevis	Inline	5.9 oz.	.
670-3	06-00104	7.5"	Clevis	90° Offset	5.9 oz.	.
670-4	06-00869	8.0"	Clevis	90° Offset	5.9 oz.	.
670-8	06-01286	7.25"	Clevis	90° Offset	5.9 oz.	.
670-13	06-00871	8.0"	3/8" Eye Bolt	90° Offset	5.9 oz.	.
670-14	06-00872	8.0"	3/8" Eye Bolt	Inline	5.9 oz.	.
670-15	06-00596	8.0"	1/2" Eye Bolt	90° Offset	5.9 oz.	.
670-16	06-00873	7.5"	1/2" Eye Bolt	90° Offset	5.9 oz.	.
670-17	06-00597	8.0"	1/2" Eye Bolt	Inline	5.9 oz.	.
670-18	06-00875	7.5"	1/2" Eye Bolt	Inline	5.9 oz.	.
670-19	06-00877	7.5"	3/8" Eye Bolt	90° Offset	5.9 oz.	.
670-20	06-00878	7.5"	3/8" Eye Bolt	Inline	5.9 oz.	.

Displacement = 0.429 cu-in Stroke = 1.4"



P/N 670-1

Displacement = 0.429 cu-in Stroke = 1.4"



P/N 671-21

Displacement = 0.236 cu-in Stroke = .77"

Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
671-20	06-00880	7.5"	1/2" Eye Bolt	Cross Drilled	5.9 oz.	.
671-21	06-00882	7.5"	3/8" Eye Bolt	Cross Drilled	5.9 oz.	.
671-22	06-00884	8.0"	1/2" Eye Bolt	Cross Drilled	5.9 oz.	.
671-23	06-00887	8.0"	3/8" Eye Bolt	Cross Drilled	5.9 oz.	.

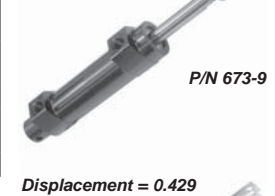


P/N 672-1

Displacement = 0.429 cu-in Stroke = 1.4"

Grove P/N	P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
672-1	06-00889	5.0"	Clevis	Cross Drilled	4.0 oz.	.
672-2	06-00891	5.5"	Clevis	Cross Drilled	4.2 oz.	.
672-3	06-00893	6.0"	Clevis	Cross Drilled	4.5 oz.	.

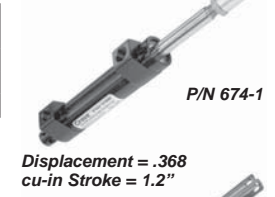
Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
673-9	06-00895	7.5"	Clevis	Cross Drilled	5.9 oz.	.
673-10	06-00896	8.0"	Clevis	Cross Drilled	5.9 oz.	.
673-11	06-00897	7.5"	1/2" Eye Bolt	Left Offset	5.9 oz.	.
673-12	06-00898	7.5"	1/2" Eye Bolt	Right Offset	5.9 oz.	.
673-13	06-00899	7.5"	1/2" Eye Bolt	Slotted 90°	5.9 oz.	.
673-14	06-00901	7.5"	1/2" Eye Bolt	Slotted Inline	5.9 oz.	.



P/N 673-9

Displacement = 0.429 cu-in Stroke = 1.4"

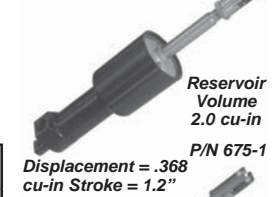
Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
674-1	06-00902	7.5"	Clevis	Cross Drilled	4.6 oz.	.
674-2	06-00903	8.0"	Clevis	Cross Drilled	4.6 oz.	.
674-3	06-00904	7.0"	Clevis	Cross Drilled	4.6 oz.	.



P/N 674-1

Displacement = .368 cu-in Stroke = 1.2"

Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
675-1	06-00907	8.0"	Clevis	Inline	8.1 oz.	.
675-2	06-00905	7.5"	Clevis	Inline	8.1 oz.	.
675-3	06-00593	8.0"	Clevis	90° Offset	8.1 oz.	.
675-4	06-00906	7.5"	Clevis	90° Offset	8.1 oz.	.



P/N 675-1

Displacement = .368 cu-in Stroke = 1.2"

Grove P/N	Our P/N	Pin-to-Pin Length	Upper Attach	Lower Attach	Weight	Pr
676-1	06-00907	8.0"	Clevis	Inline	9.3 oz.	.
676-2	06-00908	7.5"	Clevis	Inline	9.3 oz.	.
676-3	06-00909	8.0"	Clevis	90° Offset	9.3 oz.	.
676-4	06-00910	7.5"	Clevis	90° Offset	9.3 oz.	.



P/N 676-1

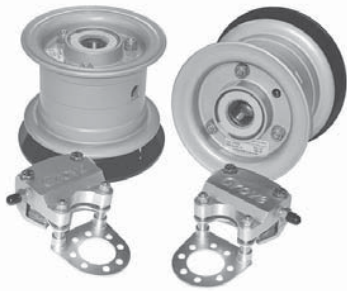
Displacement = .368 cu-in Stroke = 1.2"

All master cylinders have a 5/8" bore, 1/8" NPT outlets, are rated at 1,000 psi for use with MIL-H-5606 hydraulic fluid.

LG

# GROVE WHEEL & BRAKES

## 4 INCH WHEELS & BRAKES



P/N 40-101 Shown

Manufactured from aerospace grade aluminum

These 4" wheels are manufactured to the same exacting standards as the Grove 5" & 6" wheels.

They feature genuine Timken tapered roller bearings with felt grease seals.

40-1 wheel has 2-3/4" tire bead width.

40-3 wheel has 2-1/4" tire bead width.

## GROVE WHEELS & BRAKES FEATURE

- Aerospace grade materials
- Precision CNC machined
- Timken tapered roller bearings
- Felt grease seals
- Tubeless Option

From the chart below, select the proper static load rating, kinetic energy rating and brake torque for your aircraft.



Choose from Aluminum or Magnesium — Magnesium wheels weigh less than aluminum, but aluminum is more corrosion resistant. Both metals have similar strengths.

## 5 INCH WHEELS & BRAKES



P/N 57-124 Shown

Available in Aluminum or Magnesium

**50 SERIES** — Grove's basic 5" wheel.

**51 SERIES** — Lighter weight version of the 50 series.

**55, 56 & 57 SERIES** — Same wheel as the 50 series, but with heavier discs for greater kinetic energy and larger calipers for greater braking torque

## 5 INCH WHEELS & BRAKES



P/N 66-152 Shown

Available in Aluminum or Magnesium

**60 SERIES** — Grove's basic 6" wheel for 1-1/2" axles.

**61 SERIES** — Lighter weight version of the 60 series.

**65 SERIES** — Same as the 61 series, but for use with 1-1/4" axles.

**66 SERIES** — Same as the 60 series but with heavier discs for greater kinetic energy and larger calipers for greater braking torque.

LG

GROVE KIT NO.	OUR PART NO.	WHEEL NO.	STATIC LOA RATING POUN S	KINETIC ENERGY FT-LBS.	ISC THICK-NESS (INCHES)	BRAKING TORQUE INCH-LBS.	CALIPER NO.	PISTON IA. (INCHES)	BRAKE PA NO.	AXLE DIA. (INCHES)	WEIGHT LBS. (SEE REF. 1)	PRICE/ SET (SEE REF. 2)
<b>FOUR INCH WHEELS AND BRAKES</b>												
40-101	06-00858	40-3A	700	72,000	0.160	1,384	39-1	1x1.250	66-106	0.75	4.05	.
40-102	06-00859	40-1A	700	72,000	0.160	1,832	39-2	1x1.438	66-106	0.75	4.16	.
<b>FIVE INCH WHEELS AND BRAKES</b>												
50-101	06-00094	50-1A	1,250	118,164	0.190	2,364	30-1	1x1.500	66-106	1.25	7.10	.
50-201	06-00860	50-1M	1,250	118,164	0.190	2,364	30-1	1x1.500	66-106	1.25	6.10	.
51-101	06-00589	51-1A	800	118,164	0.190	2,364	30-1	1x1.500	66-106	1.25	6.60	.
51-201	06-00862	51-1M	800	118,164	0.190	2,364	30-1	1x1.500	66-106	1.25	5.60	.
55-112	06-00863	55-1A	1,250	162,315	0.250	3,286	31-2	2x1.250	66-111	1.25	7.60	.
55-212	06-00864	55-1M	1,250	162,315	0.250	3,283	31-2	2x1.250	66-111	1.25	6.45	.
56-113	06-00095	56-1A	1,250	205,146	0.313	3,283	31-3	2x1.250	66-111	1.25	7.90	.
56-213	06-00867	56-1M	1,250	205,146	0.313	3,283	31-3	2x1.250	66-111	1.25	6.80	.
57-124	06-00096	57-1A	1,250	246,175	0.375	4,340	32-4	2x1.438	66-111	1.25	8.30	.
57-224	06-00870	57-1M	1,250	246,175	0.375	4,340	32-4	2x1.438	66-111	1.25	7.20	.
<b>SIX INCH WHEELS AND BRAKES</b>												
60-162	06-00101	60-1A	1,750	186,792	0.250	5,052	36-2	1x2.000	66-105	1.50	10.50	.
60-262	06-00798	60-1M	1,750	186,792	0.250	5,052	36-2	1x2.000	66-105	1.50	9.20	.
61-111	06-00590	61-1A	1,200	168,934	0.190	3,946	31-1	2x1.250	66-111	1.50	9.20	.
61-211	06-00799	61-1M	1,200	168,934	0.190	3,946	31-1	2x1.250	66-111	1.50	8.10	.
65-207	06-00879	65-1M	1,250	168,935	0.190	3,868	30-7	1x1.750	66-106	1.25	7.50	.
65-211	06-00881	65-1M	1,250	168,934	0.190	3,946	31-1	2x1.250	66-111	1.25	7.62	.
65-222	06-00883	65-5M	1,250	186,792	0.250	5,216	32-2	2x1.438	66-111	1.25	7.92	.
66-152	06-00885	60-1A	1,750	186,792	0.250	7,734	35-2	2x1.750	66-106	1.50	11.15	.
66-154	06-00886	60-5A	1,750	280,188	0.375	7,734	35-4	2x1.750	66-106	1.50	11.82	.
66-252	06-00888	60-1M	1,750	186,792	0.250	7,734	35-2	2x1.750	66-106	1.50	10.10	.
66-254	06-00890	60-5M	1,750	280,188	0.375	7,734	35-4	2x1.750	66-106	1.50	10.80	.
67-174	06-00892	67-1A	2,200	280,188	0.375	7,734	37-4	2x1.750	66-105	1.50	14.25	.
67-274	06-00894	67-1M	2,200	280,188	0.375	7,734	37-4	2x1.750	66-105	1.50	12.50	.

NOTE: Braking torque calculated at 600 psi brake line pressure. Ref 1: Weight for one wheel, disc and caliper assy. Ref 2: Set includes two wheel assys.



# GROVE WHEELS & BRAKES

## NOSE WHEELS

*Genuine Aircraft Quality!*

- Cast from aerospace grade materials
- Precision CNC Machined
- Timken Tapered Roller Bearings
- Felt Grease Seals



"GROVE P/N"	"OUR P/N"	WHEEL SIZE	STATIC LOA RATING	AXLE IA.	WEIGHT	PRICE
49-1A	06-00843	4 Inch	700 lbs	0.75"	1.98 lbs	.
49-3A	06-00842	4 Inch	700 lbs	0.75"	1.87 lbs	.
59-1A	06-00102	5 Inch	1,250 lbs	1.25"	3.90 lbs	.
59-1M	06-00911	5 Inch	1,250 lbs	1.25"	2.90 lbs	.
59-2A	06-00912	5 Inch	800 lbs	1.25"	3.40 lbs	.
59-2M	06-00913	5 Inch	800 lbs	1.25"	2.40 lbs	.
69-1A	06-00103	6 Inch	1,700 lbs	1.50"	6.00 lbs	.
69-1M	06-00915	6 Inch	1,700 lbs	1.50"	4.80 lbs	.

## TUBELESS WHEELS

Perfect for oversized tires such as the 26" Goodyear tire. Durable all metal valve stem. O-Ring seal between wheel halves.



Axle Diameter 1-1/4"  
Static Load Rating 1,250lbs

P/N 06-00916.....

## 800X4 DISC BRAKE CONVERSION

STC Approved FAA-PMA



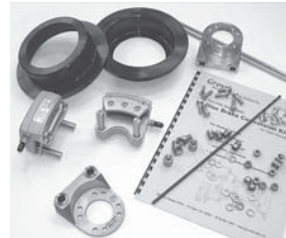
### APPROVED MODELS INCLUDE:

J-3, J-4, J-5, PA-11, PA-12 PA-14, PA-15 PA-16, PA-17PA-18, PA-19 PA-20

Good news for owners of early Piper aircraft. Say good-bye to brake expander tube problems forever!

- No more soft brake pedal
- Easy Installation
- Improved braking and ground handling

Maintain the classic cub look by installing modern disc brakes on your existing 800x4 wheels and tires. Use your existing wheels, tires, tubes, master cylinders and brake lines.



STC Kit comes complete with all parts, special tools and STC documentation. Installation requires only standard hand and rivet tools. No modifications are required to be made on the gear leg, or any other part of the aircraft.

P/N 06-00837 .....



## AXLE SHIMS

Reduce Tire Wear  
Improve Ground  
Handling



### TOE-IN/OUT REALIGNMENT SHIMS

Install these axle shims between your landing gear and axles to insure that your tires track true. Correct any misalignment of toe-in or out in 1/4° increments. Precision machined from 6061-T6 aluminum.

Pr . a h.

Corr to	500X5	600X6
1/4°	06-00925	06-00928
1/2°	06-00926	06-00929
3/4°	06-00927	06-00930

### CAMBER ADJUSTMENT SHIMS

Adjust the vertical alignment of your wheels with these camber adjustment shims. Precision machined from 6061-T6 aluminum.

Pr . a h.

Corr to	500X5	600X6
1/2°	06-00931	06-00934
1°	06-00932	06-00935
2°	06-00933	06-00936

## 500X5 STANDARD AXLE

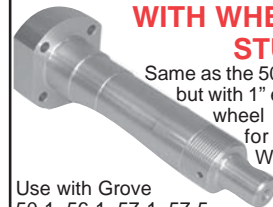
Precision CNC machined from 2024-T3 aluminum with clear anodized protective finish Weight 0.92 lbs. 1.25" diameter Static Load Rating 1,250 lbs.



Use with Grove 50-1, 56-1, 57-1, 57-5 and Cleveland 500x5 P/N 06-00917 .....

## 500X5 STANDARD AXLE WITH WHEEL PANT STUB

Same as the 500x5 standard axle but with 1" extension to attach wheel pant. End tapped for 1/4-28 screw Weight 0.95lb.



Use with Grove 50-1, 56-1, 57-1, 57-5 and Cleveland 500x5 wheels. P/N 06-00601 .....

## 600X6 STANDARD AXLE

Precision CNC machined from 2024-T3 aluminum with clear anodized protective finish Weight 1.28 lbs. 1.50" diameter Static Load Rating 1,750lbs



Use with Grove 60-1, 61-1, and Cleveland 600x6 wheels P/N 06-00919 .....

## 600X6 STANDARD AXLE WITH WHEEL PANT STUB

Same as the 600x6 standard axle but with 2" extension to attach wheel pant. End tapped for 1/4-28 screw Weight 1.43lb.



Use with Grove 60-1, 61-1, and Cleveland 600x6 wheels. P/N 06-00602 .....

## 400X4 AXLES

Use with Grove 40-1A Wheel Weight 0.40lbs wheels. P/N 06-00921 .....  
Use with Grove 40-3A Wheel Weight 0.38lbs P/N 06-00922 .....



Solid 7075-T6 aluminum with clear anodized finish. Diameter 0.75" Static Load Rating 660lbs

## 1-1/4" DIAMETER 600X6 AXLES

Same construction as the above axles, but with 1.25" diameter Use with Grove 65 Series Wheels.



With wheel pant stub.... P/N 06-00923 .....  
Without stub ..... P/N 06-00924 .....



# BRAKE PARTS ISCS

## METAL HUB CAPS



These FAA approved metal hub caps are designed for older Pipers using the 800x4 Goodrich (Hayes) brakes such as the J-3 and PA-18. A larger cap for 600 x 6 conversions are also available below. The caps are available with "CUB" stamped in raised letters or plain.

- Cub 800x4 Goodrich hub cap ..... P/N 06-00010 ..... a.
- (Identical in size and appearance to Cleveland #157-9)
- Cub 600x6 Cleveland hub cap..... P/N 06-00020 ..... a.
- Plain 800x4 Goodrich hub cap..... P/N 06-00030 ..... a.
- Plain 600x6 Cleveland hub cap ..... P/N 06-00040 ..... a.

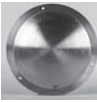
## WHEEL COVERS



For Gerdes, McCauley, Cleveland, Hayes, Goodyear, Rosenhan and Matco wheels as listed. Furnished with mounting screws and lock washers.

P/N	Wh S	App at o	Pr a.
157-8 <i>Pictured</i>	5.00-5*	Cleveland, McCauley, Gerdes	.
157-9	6.00-6**	Cleveland, McCauley, Gerdes	.
06-03705	6.00-6	All Goodyear Wheels	.
06-03900	5" Dia.	Rosenhan Matco Wheels	.

## ECONOMY WHEEL COVER



- For 600-6 Cleveland wheels ..... P/N 06-03710 ..... a.
- For 500-5 Cleveland wheels ..... P/N 06-00073 ..... a.

*Furnished with screws for installation*

## GROVE HUB CAP



For Grove, Cleveland and Gerdes 600x6 wheels. Includes mounting screws.  
P/N 06-00845 .....

## STAINLESS STEEL BRAKE ISCS FOR CERTIFICATE AIRCRAFT



These solid stainless steel brake discs were developed to eliminate the problem of rust associated with regular carbon steel discs and the cracking and peeling of chrome plated discs. The stainless discs provide excellent braking performance and improve brake component service life - brake pads will last much longer. The advantages of stainless discs are most pronounced in harsh environmental conditions.

STC'd for Twin Comanche and Comanche 400 that do not use metallic linings. When ordering, please furnish part number of the disc being replaced and aircraft make, model and number.

Sta Part NO.	Cleveland Part NO.	Pr P r Pa r
201-10SS	164-10***	.
201-19SS	164-19	.
201-25BSS	164-25B	.
201-195SS	B30195	.

**\*\*\*Must be used with organic linings, use conversion kit CK10 to convert from metallic linings.**

**\*\*Must be used with organic linings, use conversion kit CK220 to convert from metallic linings.**

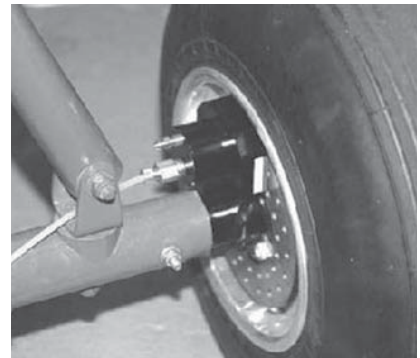
## BX-1000 BLACK MAX HYDRAULIC BRAKE SYSTEM

*(Everything you need in one package)*

This system has a full floating rotor which compensates for alignment giving you a smooth feeling brake action. The master cylinder has a built in reservoir which allows you to add oil and bleed from the top down. Maximum holding pressure to allow for a good run up. Uses standard brake fluid. Gross rating 1000 lbs.

### Features:

- Master Cylinder w/reservoir and brake handle
- 2 6" polished aluminum wheels
- 2 Hubs w/bearings
- 2 Tires
- 2 Rotors
- 2 Calipers
- 5/8" axle with keyway
- Brake Pads
- 14' of Hydraulic Brake Line
- Fittings and Hardware.



Part#	Mo	R T p	R I u	R S	Gross W ht	I u t r	Ax S	PN	Pr
BX44708	BX1000	WELDED	YES	6"W X 6" D	1000LBS	YES	5/8" X 8"	06-00707	.
BX44708-4	BX1000	WELDED	YES	4"W X 6" D	1000LBS	YES	5/8" X 8"	06-00963	.
BX44798	BX-AZUSA	Azusa	NO	4"W X 4" D	1000LBS	NO	5/8" X 7.5"	06-00964	.
BX44799	BX-AZUSA	Azusa	NO	4"W X 6" D	1000LBS	NO	5/8" X 7.5"	06-01191	.
BX44800	BX-AZUSA	Azusa	NO	4"W X 8" D	1000LBS	NO	5/8" X 7.5"	06-00966	.
BX44785	BX1320	SPLIT RIM	YES	6"W X 6" D	1320LBS	NO	5/8" X 8"	06-00967	.
BX44785-4	BX1320	SPLIT RIM	YES	4"W X 6" D	1320LBS	NO	5/8" X 8"	06-00968	.
BX44863	BX1500	SPLIT RIM	YES	6"W X 6" D	1500LBS	NO	3/4" X 8"	06-00969	.
BX44863-4	BX1500	SPLIT RIM	YES	4"W X 6" D	1500LBS	NO	3/4" X 8"	06-00970	.

## WOODRUFF KEY

Woodruff key for Black Max brake caliper  
P/N 06-01019.....



# CLEVELAN BRAKE ISCS



**CLEVELAN BRAKE ISCS**  
**ALL THE BRAKE YOU NEED WITH A PRICE BREAK - A FULL 30% OR MORE OFF LIST PRICE!**

If your aircraft is flown a lot (more than 200 hours a year) and is not exposed to exceptionally corrosive atmospheres, Cleveland Standard discs are the ideal replacement when normal brake wear requires it.

Cleveland Chrome brake discs are the answer for owners of aircraft that are exposed to the elements (moisture, salt, industrial chemicals) and are not flown frequently enough to rub off corrosion. If you fly less than 200 hours a year, your aircraft spends more than 8,500 idle hours exposed to the elements. Standard and Chrome Cleveland brake discs are fully FAA approved as replacements on virtually all popular single engine aircraft.

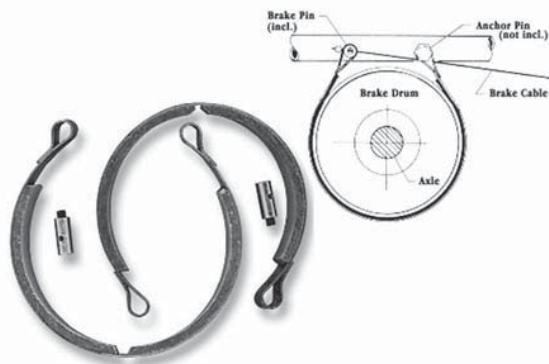
A r r a t Mo	Ma Wh A	Sta ar	Pr Ea h	Chro	Pr Ea h	A r r a t Mo	Ma Wh A	Sta ar	Pr Ea h	Chro	Pr Ea h
Homebuilts	500x5 40-78B	164-17	.	164-117	.	Cessna 207, T207	660x6 40-75B	164-15A	.	164-115A	.
Homebuilts	600x6 40-59A	164-75	.	164-175	.		600x6 40-75D	164-36	.	164-136	.
Aerotek (Pitts) S-1 Series, S-2A	500x5 40-78B	164-17	.	164-117	.	Cessna Caravan 1. & 208B	40-179	164-22201	.	---	---
Bonanza 33, 35, 36	600x6 40-83	164-02505	.	164-125B	.	Cessna 210C	600x6 40-21	164-9	.	164-109	.
Bellanca Citabria, Decathlon	600x6 40-28D	164-5	.	164-105	.	Cessna 210 series P210, T210	600x6 40-75B	164-15A	.	164-115A	.
Bellanca Champ	600x6 40-78B	164-17	.	164-117	.	Cessna 210N, P210N	600x6 40-75B	164-15A	.	164-115A	.
Viking 300A	600x6 40-75E	164-15A	.	164-115A	.	Cessna 336 Series	600x6 40-67	164-7	.	164-107	.
Cessna 150C	600x6 40-57	164-5	.	164-105	.	1963-1965	600x6 40-75B	164-15A	.	164-115A	.
Cessna 150D,E	500x5 40-78	164-17	.	164-117	.	Gulfstream AA-1, A, B, AA-5,	600x6 40-86A	164-20	.	164-120	.
Cessna 150F,G,H,J	600x6 40-97A	164-26A	.	164-126A	.	AA-5B, TR2	600x6 40-88C	164-20	.	164-120	.
Cessna 150K	600x6 40-97A	164-26A	.	164-126A	.	Helio H-295, 395,	600x6 40-75E	164-15A	.	164-115A	.
Cessna A150K, F150, FA150	600x6 40-113	164-40	.	164-140	.	391	600x6 40-75D	164-36	.	164-136	.
Cessna 152, F152, FA152	600x6 40-113	164-40	.	164-140	.	Maule M4, M5 Series	600x6 40-97D	164-26A	.	164-126A	.
Cessna 172	600x6 40-97A	164-26A	.	164-126A	.	Mooney M20A, M20B	600x6 40-24	164-9	.	164-109	.
Cessna 177, 177RG, F177RG	600x6 40-113	164-40	.	164-140	.	Mooney 20C	600x6 40-86	164-20	.	164-120	.
Cessna 177A, B	600x6 40-97A	164-26A	.	164-126A	.	Mooney 20D, E	600x6 40-24	164-9	.	164-109	.
Cessna 180	600x6 40-75B	164-15A	.	164-115A	.	Mooney 20D, F,G,J,K	600x6 40-86	164-20	.	164-120	.
	600x6 40-75D	164-63	---	164-163	---	Piper PA22-108	600x6 40-28	164-5	.	164-105	.
	600x6 40-66	164-7	.	164-107	.	Piper PA24-180,250	600x6 40-58	164-9	.	164-109	.
Cessna 182H,J,K,L,M,N	600x6 40-97A	164-26A	.	164-126A	.	Piper PA24-260	600x6 40-84	164-19	.	164-119	.
Cessna 182N	600x6 40-113	164-40	.	164-140	.	Piper PA25	600x6 40-84A	164-33	.	164-133	.
Cessna 182J, K, L, N,	600x6 40-97A	164-26A	.	164-126A	.	Piper PA28 Series Cherokee/Warrior	600x6 40-28	164-20	.	164-120	.
	600x6 40-32	164-7	.	164-107	.	Archer	600x6 40-86	164-20	.	164-120	.
Cessna 185, A, B	600x6 40-66	164-7	.	164-107	.	Pathfinder	600x6 40-86B	164-20	.	164-120	.
	600x6 40-75B	164-15A	.	164-115A	.	Cherokee	600x6 40-58	164-9	.	164-109	.
Cessna 185C, D, E	600x6 40-75B	164-15A	.	164-115A	.	<b>Piper PA28R Series</b>					
Cessna A185E 1966 & Up	600x6 40-75B	164-15A	.	164-115A	.	Cherokee/Arrow	600x6 40-84	164-19	.	164-119	.
1969 & Up	600x6 40-75D	164-36	.	164-136	.	Dakota	600x6 40-86	164-20	.	164-120	.
1967, 1968	600x6 40-66	164-7	.	164-107	.		600x6 40-86B	164-20	.	164-120	.
Cessna 188, A188	600x6 40-75B	164-15A	.	164-115A	.	Piper PA32 Series	600x6 40-90A	164-23	.	164-123	.
	600x6 40-67	164-7	.	164-107	.	Piper P34 Series	600x6 40-90A	164-23	.	164-123	.
Cessna 205, 205A	600x6 40-75B	164-15A	.	164-115A	.	Piper PA38-112	500x5 40-78B	164-17	.	164-117	.
	600x6 40-75B	164-15A	.	164-115A	.	Piper PA44	600x6 40-90A	164-23	.	164-123	.
Cessna 206, U206A, TU206A & Turbo	600x6 40-75	164-15A	.	164-115A	.	Rockwell Int. 112, 112A, B	600x6 40-113A	164-43	.	164-143	.
Cessna U206D, D & Turbo	600x6 40-75D	164-36	.	164-136	.	112B, TC, TCA114	600x6 40-75H	164-15A	.	164-115A	.
Cessna P206, A, TP206A	600x6 40-75	164-15A	.	164-115A	.	Schweizer SGS1-34	500x5 40-78B	164-17	.	164-117	.
Cessna P206, A, B, C, D, & Turbo	600x6 40-75B	164-15A	.	164-115A	.	Spencer Amph. S12E	600x6 40-74	164-7	.	164-107	.
Cessna P206D,E,Turbo & Super Skylane	600x6 40-75D	164-36	.	164-136	.	Taylorcraft F-19	600x6 40-86	164-20	.	164-120	.
						Varga 2150A	600x6 40-97E	164-26A	.	164-126A	.
						Waco	600x6 40-97A	164-26A	.	164-126A	.
						Wing Derringer	600x6 40-84	164-19	.	164-119	.

**LG**

## REPLACEMENT DISCS & LININGS FOR CESSNA/MCCAULEY WHEELS & BRAKES

C a r r a t Mo	C Wh a/M Cau A	C M Cau A	Cleveland Bra A	Pr
150, 150A	C163004-0104	B-30440	164-09200	.
	C163003-0101		164-09300	.
	C163001-0102		164-09400	.
152, A152, F152, FA152	C163005-0101	C30615-1	164-08800	.
	C163006-0101		164-09200	.
172, F172, R172, FR172	C163004-0104	B-30440	164-09300	.
	C163003-0101		164-09300	.
	C163003-0102		164-09300	.
	C163004-0104		164-09300	.
172, F172, 172RG, 177	C163002-0101	B-30007	164-09400	.
	C163006-0101		164-08800	.
177RG	C163005-0101	C30615-1	164-08800	.
	C163006-0101		164-08800	.
180, 185	C163004-0103	C30414	164-09500	.
	C163004-0101		164-09700	.
	C163006-0103 Std.		164-9	.
	C163006-0102 HD		164-08900	.
182, F182	C163006-0101	C30615-1	164-08800	.
	C163006-0103		164-9	.
R182, FR182, TR 182	C163006-0103	C30615-3	164-09600	.
	C163004-0102		164-09700	.
	C163004-0101		164-9	.
	C163006-0103 Std.		164-08900	.
U206-TU206	C163006-0102 HD	C30615-2	164-08900	.
	C163006-0103		164-9	.
210, T210, P210	C163006-0103	C30398	164-09600	.
	C163006-0103		164-9	.

## 4-1/2 INCH BRAKE BANDS WITH PINS



Band Brakes are simple, effective and economical for a variety of small, light-duty small vehicles, or as parking brakes. They were designed to work with either 4" or 4-1/2" diameter drums, but may work well with drums ranging in size from 3-7/8" through 4-5/8" O.D.

- 2 Piece Bonded Lining
- Riveted End/Mounting Brackets
- Steel Brake Pin with Cable Hole Included
- Band Brake for 4.5" drum - Packaged PN 2555

P/N 06-00662 .....

# RAPCO BRAKE ISCS

## RAPCO BRAKE ISCS



Rapco brake disc are FAA PMA approved replacements for Cleveland and McCauley. They are precision machined from forged steel, heat treated and nickel plated for long life. **IMPORTANT:** This is only a partial listing, to assure the correct part number, please contact the sales department, or download the complete Rapco brake guide from our web site.

LG

Aircraft Model	Standard Rapco Disc	Part No.	Pr
Aerotek (Pitts) S-1, S-2A	RA164-01700	06-00618	.
Air Tractor AT-300, AT-301, AT-302, AT-400A	RA164-03006	06-00414	.
American Citabria, Decathlon	RA164-00500	06-00612	.
American Champ	RA164-01700	06-00618	.
Bellanca Viking 300A	RA164-01501	06-00616	.
Beech 77 Skipper	RA164-06900	06-00631	.
Bonanza 33, 35	RA164-02504	06-00622	.
Bonanza 36	RA164-02505	10-03106	.
Britten Norman BN-2	RA164-02201	06-00621	.
Cessna 150A,B,C	RA164-00400	06-00118	.
Cessna 150C 1963	RA164-00500	06-00612	.
Cessna 150D,E	RA164-01600	06-00617	.
Cessna 150F,G,H,J,K	RA164-02601	06-00623	.
Cessna A150, 150K, F150, FA150	RA164-04000	06-00628	.
Cessna F152, FA152	RA164-04000	06-00628	.
Cessna 172 F,G,H,I,K	RA164-02601	06-00623	.
Cessna 172 McCauley	RA164-30440	06-00578	.
	RA164-30195	06-00579	.
Cessna 172, F172	RA164-04000	06-00628	.
Cessna 177, 177RG, F177RG	RA164-04000	06-00628	.
	RA164-30440	06-00578	.
Cessna 177A, B	RA164-02601	06-00623	.
	RA164-04000	06-00628	.
Cessna 177RG McCauley	RA164-30195	06-00579	.
	RA164-30440	06-00578	.
	RA164-30615-1	06-00580	.
	RA164-01501	06-00616	.
Cessna 180	RA164-00700	06-00613	.
	RA164-30651-1	06-00580	.
Cessna 182, F182	RA164-30651-3	06-00585	.
Cessna R182, FR182, TR182	RA164-30651-3	06-00585	.
Cessna 182	RA164-30440	06-00578	.
Cessna 182, A182	RA164-04000	06-00628	.
Cessna T182, TR182	RA164-30651-3	06-00585	.
Cessna 182G, H, J, K, L, M, N	RA164-02601	06-00623	.
	RA164-30388	06-00584	.
Cessna 185 McCauley	RA164-30615-2	06-00586	.
	RA164-00700	06-00613	.
Cessna 185, A, B	RA164-00700	06-00613	.
Cessna 185C, D, E	RA164-01501	06-00616	.
Cessna A185E 1969 & Up	RA164-03601	06-00627	.
Cessna A185E 1967, 1968	RA164-00700	06-00613	.
Cessna 188, A188	RA164-03106	06-01129	.
	RA164-00700	06-00613	.
Cessna 205, 205A	RA164-01501	06-00616	.
	RA164-30398	06-00588	.
Cessna U206, TU206 McCauley	RA164-30651-3	06-00585	.
	RA164-01501	06-00616	.

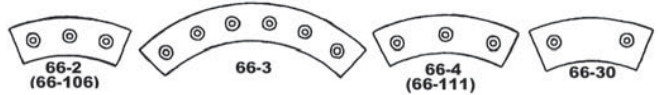
Aircraft Model	Standard Rapco Disc	Part No.	Pr
Cessna U206D, Turbo	RA164-03601	06-00627	.
Cessna P206, A,TP206A	RA164-01501	06-00616	.
Cessna P206, A,B,C,D,Turbo	RA164-01501	06-00616	.
Cessna P206D, E,Turbo,Super Skylane	RA164-03601	06-00627	.
Cessna 207, T207	RA164-01501	06-00616	.
	RA164-03601	06-00627	.
Cessna 210, P210,T210 McCauley	RA164-30651-3	06-00585	.
	RA164-30398	06-00588	.
Cessna 210C	RA164-00900	06-00614	.
Cessna P210	RA164-07800	06-00633	.
Cessna 210 series P210, T210	RA164-01501	06-00616	.
Cessna 336 Series	RA164-00700	06-00613	.
Cessna 336 Series, 1963-1965	RA164-01501	06-00616	.
General Avia F1300	RA164-05700	06-00630	.
Gulfstream AA-1,A,B,AA-5,AA-5B,TR2	RA164-02000	06-00620	.
Helio H-750, H-295, 391, 395	RA164-01501	06-00616	.
	RA164-03601	06-00627	.
Homebuilts	RA164-07500	06-00632	.
Industria Unidas A-9B	RA164-02800	06-00624	.
Maule M4, M5, M6 Series	RA164-02601	06-00623	.
Mooney M20A, thru Super 21	RA164-00900	06-00614	.
Mooney M20C,E,F,G,J,K	RA164-02000	06-00620	.
Mooney 201	RA164-02300	10-03107	.
Piper PA22-108	RA164-00500	06-00612	.
Piper PA23-235	RA164-00206	06-00610	.
	RA164-03206	06-00625	.
Piper PA23-250	RA164-05700	06-00630	.
	RA164-00900	06-00614	.
Piper PA24-180, 250	RA164-00900	06-00614	.
Piper PA24-260	RA164-01900	06-00619	.
Piper PA25	RA164-03300	06-00626	.
Piper PA28 Early	RA164-00500	06-00612	.
Piper PA28R-180 Early	RA164-01900	06-00619	.
Piper PA28 Series Comman	RA164-02000	06-00620	.
Piper PA28-236, PA32-300, PA32-301	RA164-02300	10-03107	.
Piper PA30	RA164-01000	06-00615	.
Piper PA32, -760, -300	RA164-02201	06-00621	.
Piper PA32, -660, -300	RA164-21600	06-00634	.
Piper PA32-300, 32R, -32RT	RA164-21600	06-00634	.
Piper PA34-200, PA34-220T	RA164-02300	10-03107	.
Piper PA38-112	RA164-01700	06-00618	.
Rockwell 112, 112A, 112B	RA164-04300	06-00629	.
Rockwell Int. 112TC, TCA114	RA164-01501	06-00616	.
Schweizer G-164A, 450	RA164-03006	06-00414	.
Schweizer 6164-B, -C, -D, 450	RA164-05806	06-01128	.
Taylorcraft F-19	RA164-02000	06-00620	.
Siai-Marchetti 260SW	RA164-02300	10-03107	.
Varga 2150A	RA164-02601	06-00623	.
Waco	RA164-02601	06-00623	.
Wing Derringer	RA164-01900	06-00619	.



# BRAKE LININGS

## CLEVELAND STANDARD ORGANIC BRAKE LININGS

Order by NEW Cleveland part number.  
All Linings Include Rivets



Aircraft Make & Model	O Cleveland P/N	# R	N Cleveland P/N	Pr
AEROTEK - Pitts S-1, S-2A	66-2	2	66-106	.
BEECH - Musketeer	66-55	2	66-105	.
Sierra Sport Sundowner B-19; C-23, 24R	66-55	2	66-105	.
Debonair CD-1 thru CD-387	66-4	2	66-111	.
Debonair B-33	66-2	2	66-106	.
Skipper	66-71	2	66-112	.
BELLANCA - Citabria, Champ	66-2	2	66-106	.
Scout	66-3	1	66-106	.
Decathlon, Scout 8GCBC	66-2	2	66-106	.
Viking, Aries 250	66-55	2	66-105	.
CESSNA - 150A, B, C, D, E	66-2	2	66-106	.
	66-56	2	66-106	.
	66-55	2	66-105	.
150F, G, H, J, K, 152, F-152, FA-152	66-55	2	66-105	.
All Cessnas using Cessna/McCauley Brakes	B-30026	2	66-109	.
Skyhawk 172, Cardinal 177 All	66-55	2	66-105	.
Skywagon 180	66-55	4	66-105	.
Skylane 182 H, J, K, L, M, N	66-55	2	66-105	.
185A, B	66-2	2	66-106	.
185C, D, E	66-55	2	66-105	.
185 with crosswind gear	66-2	2	66-106	.
AGWagon	66-55	4	66-105	.
Stationair-6 205, 205A	66-2	2	66-106	.
Stationair-6 205, 205A (s/n 205-0481 & up)	66-55	4	66-105	.
206, U206A, D, E & Turbo models	66-55	4	66-105	.
207, T207	66-55	4	66-105	.
210C	66-4	2	66-111	.
210, P210, T210, 210N, P210N	66-55	4	66-105	.
305A, B, C, D, E, F	66-55	4	66-105	.
310, 335	66-33	6	66-33	.
Skymaster 336	66-2	2	66-106	.
337, T337, 337B, C, D, E, T337B, C, D, E	66-55	4	66-105	.
All Cessnas using Cessna/McCauley Brakes	B-30026	2		.
<b>GRUMMAN</b>				
AA-1, A, B, AA-5, AA-5A, AA-5B, Tiger, TR-2	66-55	2	66-105	.
AG-CAT	66-3	1	66-106	.
	66-56	2	66-106	.
G-154	66-2	2	66-106	.
MAULE - Jetasen/Rocket, Lunar/Rocket	66-55	2	66-105	.

Aircraft Make & Model	O Cleveland P/N	# R	N Cleveland P/N	Pr
MOONEY - Most M20, A, B, D, E	66-4	2	66-111	.
PIPER - Colt PA22-108	66-2	2	66-106	.
	66-56	2	66-106	.
Apache PA-23-150, 160	66-2	2	66-106	.
	66-56	2	66-106	.
Apache/Aztec PA-23-235, 250 Series	66-2	4	66-106	.
	66-3	4	66-106	.
Comanche PA-24-180, 250, 260	66-2	2	66-106	.
Pawnee C, PA-25	66-2	2	66-106	.
Cherokee/Cruiser PA-28-140	66-2	2	66-106	.
PA-28-140 s/n 28-20521 & up	66-55	2	66-105	.
Cherokee PA-28-150	66-2	2	66-106	.
Cherokee PA-28-160 s/n 28-1761 & up	66-55	2	66-105	.
Cherokee Warrior PA-28-151	66-55	2	66-105	.
Cherokee PA-28-160	66-2	2	66-106	.
Cherokee/Warrior II PA-28-161	66-55	2	66-105	.
Cherokee/Archer PA-28-180 to 28-1760	66-2	2	66-106	.
Cherokee/Archer PA-28-180 28-1761 & up	66-55	2	66-105	.
Cherokee/Pathfinder PA-28-181, PA-28-236	66-55	2	66-105	.
PA-28R-180, PA-28-200	66-2	2	66-106	.
PA-28R-180 s/n 28R-7130006 & up	66-55	2	66-105	.
PA-28-200 s/n 28R-7135110 & up	66-55	2	66-105	.
PA-28R-201T, 201, PA-28RT-201, 201T	66-55	2	66-105	.
Early PA-28-235	66-56	2	66-106	.
Early PA-28R-180, 200	66-56	2	66-105	.
Twin Comanche PA-30	66-19	2	66-62	.
Navajo B, PA31-300, 310, Turbo Navajo	66-33	6	66-33	.
Chieftain, PA-31-350	66-33	6	66-33	.
Cherokee/Six-260 PA-32-260	66-55	4	66-105	.
PA-32-300 s/n 32-40000 thru 7200029	66-55	4	66-105	.
PA-32R-300, 32RT-300	66-55	4	66-105	.
PA-38-112 (6" wheel)	66-71	2	66-112	.
PA-38-112 (5" wheel)	66-56	2	66-106	.
PA-39	66-19	1	66-62	.
PA-39, PA-39-1 & up	66-3	1	66-106	.
PA-44-180	66-55	4	66-105	.
<b>TAYLORCRAFT</b>				
Sportsman 100	66-55	2	66-105	.

LG



### RAPCO BRAKE RIVET TOOL REPLACEMENT PUNCH/ANVIL

Complete with: Rivet Punch, Set and Anvil for setting rivets. More Convenient and easier to use than most punch style tools. Will not crack or distort brake linings. Can be used in vise or hand held.

Brake Rivet tool RA825 ..... P/N 10-02065  
Replacement Punch/Anvil RA825AP ..... P/N 10-02066

### BARRY JAY BRAKE LININGS

Cleveland Equiv.	Part No.	\$/box of 8	Cleveland Equiv.	Part No.	\$/box of 8
66-108	06-00149	.	66-103A	06-00146	.

Barry Jay Brake Linings are NOT FAA/PMA approved. Sold in boxes of 8 ONLY.

Advise aircraft make, model and serial number to assure that correct brake lining part number is furnished Extra rivets, P/N 105-2, for all models listed in table .05 each



### BRAKE LINING TOOL

Designed especially to economically reline brakes, this riveting set is a handy tool for many other jobs where rivets are used to fasten leather, canvas, plastic and metal parts. Deluxe tool is screw-down type.

Diex. Brake Lining Tool ..... P/N 12-20810  
Brake Lining Tool ..... P/N 824  
Brake Lining Rivets 4-4 ..... P/N 105-2  
Brake Lining Rivets 4-6 ..... P/N 06-02300

### RAPCO REPLACEMENT BRAKE LININGS

As a Rapco factory authorized distributor, Aircraft Spruce now offers these FAA-PMA approved brake lining replacements for Cleveland & McCauley brakes as an economical alternative to Cleveland factory linings. All are substantially discounted, with even further savings on quantity orders.



Our P/N	O Cleveland P/N	N Cleveland P/N	RAPCO P/N	Our Pr Ea h
16956	66-2	66-106	RA66-106†	.
16956	66-3	66-106	RA66-106†	.
16958	66-4	66-111	RA66-111	.
16915	66-15	66-15	RA66-15	.
16919	66-19	66-19	RA66-19	.
16922	66-22	66-22	RA66-22	.
16955	66-30	66-105	RA66-105†	.
16933	66-33	66-33	RA66-33	.
16959	66-35	66-108	RA66-108†	.
16944	66-44	66-44	RA66-44	.
16955	66-55	66-105	RA66-105†	.

Our P/N	O Cleveland P/N	N Cleveland P/N	RAPCO P/N	Our Pr Ea h
16956	66-56	66-106	RA66-106†	.
16956	66-57	66-106	RA66-106†	.
16958	66-58	66-111	RA66-111†	.
16959	66-59	66-108	RA66-108†	.
16962	66-62	66-62	RA66-62	.
16965	66-65	66-65	RA66-65	.
16966	66-66	66-66	RA66-66	.
16968	66-68	66-68	RA66-68	.
16987	66-87	66-109	RA66-109†	.
16987	66-88	66-109	RA66-109†	.

RAPCO BRAKE LINING KITS	K t P/N	No. o	K t Pr
All Rapco Brake Lining kits come complete with correct number of brake linings and rivets needed for each aircraft.	RA66-105-4K	4	.
	RA66-105-8K	8	.
	RA66-106-4K	4	.
	RA66-106-8K	8	.
	RA66-108-8K	8	.
	RA66-109-4K	4	.
	RA66-109-8K	8	.
	RA66-111-4K	4	.

### RIVETS

RAPCO P/N	S	\$/ a.
RA105-00200-Countersunk Head	9/32" Long	.
RA105-00700-Flat Head	1/4" Long	.

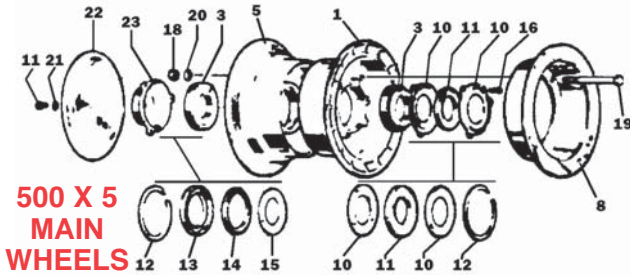
\* Use 2 each 66-106 linings to replace 1 each 66-3/66-57. ALL LININGS INCLUDE RIVETS

† Not for use on Stainless Steel Discs

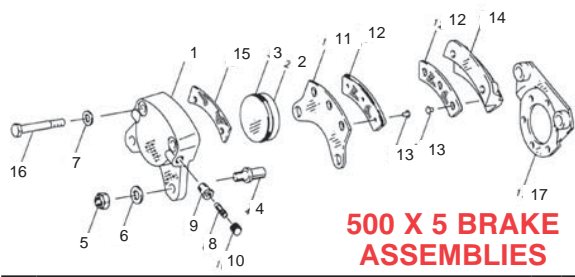
NOTE: Cessna Aircraft with Cessna / McCauley brakes use only RA66-109 linings.

# WHEELS & BRAKES

## FAA-APPROVED CLEVELAND WHEELS & BRAKES



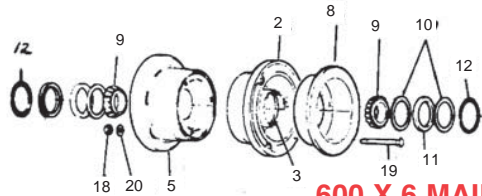
**500 X 5 MAIN WHEELS**



**500 X 5 BRAKE ASSEMBLIES**

FIG	Cleveland P/N	Part No.	r p t o	A	Nu	Qt . P r A						Pr Ea h											
						40-12	40-12A	40-12B	40-19	40-19A	40-19B		40-78	40-78A									
1	161-5	161-00500	Inner Wheel Half Assy.	1	1	1																	
	161-03100	161-03100	Inner Wheel Half Assy.												1								
	161-04100	161-04100	Inner Wheel Half Assy.													1							
3	08231	214-00300	Cup-Bearing	1	1	1	1	1	1	1	1	1	1	1									
5	162-00500	162-00500	Outer Wheel Half Assy.	1	1	1																	
	162-01400	162-01400	Outer Wheel Half Assy.						1	1	1												
	162-02800	162-02800	Outer Wheel Half Assy.												1								
	162-03900	162-03900	Outer Wheel Half Assy.													1							
3	08231	214-00300	Cup-Bearing	1	1	1	1	1	1	1	1	1	1	1									
*	217-00100	217-00100	Grommet												1	1							
*	101-07200	101-07200	"O" Ring	1	1	1																	
8	164-00400	164-00400	Brake Disc Assy.	1	1	1	1	1	1	1	1	1	1	1									
	164-17	164-01700	Brake Disc Assy.																				
*	08125	214-00400	Cone-Bearing	2	2	2	2	2	2	2	2	2	2	2									
19	AN4-31A	103-10800	Bolt	3	3	3	3	3	3	3	3	3	3	3									
	AN4-22A	103-10500	Bolt																				3
20	AN960-416	095-10400	Washer	6	6	6	6	6	6	6	6	6	6	6									
18	AN365-428A	094-10300	Nut	3	3	3	3	3	3	3	3	3	3	3									
10	153-00800	153-00800	Ring-Grease Seal	2	2	4	2	2	4	4	4	4	4	4									
12	155-00200	155-00200	Ring-Snap	2	2	2	2	2	2	2	2	2	2	2									
11	154-00600	154-00600	Felt-Grease Seal	1	1	2	1	1	2	2	2	2	2	2									
23	158-00500	158-00500	Cap-Hub	1	1	1	1	1	1	1	1	1	1	1									
17	102-25100	102-25100	Screw	1	1	1	1	1	1	1	1	1	1	1									
21	095-15400	095-15400	Washer-Lock	1	1	1	1	1	1	1	1	1	1	1									
22	157-00500	157-00500	Shield-Dust	1																			

**MODEL NO. 40-78** wheel with brake disc and 1-1/4" dia. bearings as used on Cessna 150. P/N 40-78.....



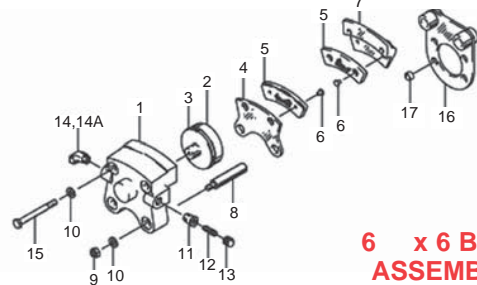
**600 X 6 MAIN WHEELS**

FIG	Cleveland P/N	Part No.	r p t o	A	Nu	Qt . P r A						Pr Ea.	
						40-97	40-97A	40-97B	40-97C	40-97D	40-99		
2	161-03000	161-03000	Inner Wheel Half Assy.	1	1	1	1	1	1	1	1		
	161-02100	161-02100	Inner Wheel Half Assy.										1
3	13836	214-00100	Cup-Bearing	1	1	1	1	1	1	1	1	1	
5	162-02700	162-02700	Outer Wheel Half Assy.	1	1	1	1	1	1	1	1	1	
	162-01900	162-01900	Outer Wheel Half Assy.										1
	13836	214-00100	Cup-Bearing	1	1	1	1	1	1	1	1	1	
8	164-26A	164-02601	Brake Disc Assy.	1	1	1	1	1	1	1	1	1	
	164-02800	164-02800	Brake Disc Assy.										1
9	214-00200	214-00200	Cone-Bearing	2	2	2	2	2	2	2	2	2	
19	AN5-35A	103-20400	Bolt	3	3	3	3	3	3	3	3	3	
	AN4-37A	103-11200	Bolt										6
20	AN960-516	095-10500	Washer	3	3	3	3	3	3	3	3	3	
	AN960-416L	095-10200	Washer										6
18	AN365-524A	094-10400	Nut	3	3	3	3	3	3	3	3	3	
	AN365-428A	094-10300	Nut										6
10	153-00400	153-00400	Ring-Grease Seal	2	2	2	2	2	2	2	2	2	
	153-00300	153-00300	Ring-Grease Seal	1	1	2	1	1	1	1	1	1	
	153-01500	153-01500	Ring-Grease Seal	1	1	2	1	1	1	1	1	1	
	158-00300	158-00300	Cap-Hub										1
11	154-00300	154-00300	Felt-Grease Seal	1	1	1	1	1	1	1	1	1	
	154-01300	154-01300	Felt-Grease Seal	1	1	2	1	1	1	1	1	1	
12	155-00100	155-00100	Ring-Snap	2	2	2	2	2	2	2	2	2	

**MODEL NO. 40-97A** wheel with brake disc and 1.5" dia. bearings fits Cessna 172, 182 P/N 40-97A.....

FIG	Cleveland P/N	Part No.	r p t o	A	Nu	Qt . P r A				Pr Ea h			
						30-9	30-9A(2)	30-9C	30-9D		30181A		
	91-00702	06-01203	Cylinder Assy.			1				1			
	91-04800	06-01204	Cylinder Assy.				1	1					
	91-17401	06-01205	Cylinder Assy.								1		
1	61-00601	061-00601	Cylinder			1					1	1	
	61-03901	061-03901	Cylinder				1	1					----
	92-00200	06-01206	Piston			1	1	1	1	1	1	1	
2	79-00300	062-00300	Piston			1	1	1	1	1	1	1	
3	101-02300	AN6227B-23	O-ring (MS28775-218)			1	1	1	1	1	1	1	
4		069-00400	Anchor bolt			2	2	2	2	2	2	2	
5	94-10300	AN365-428A	Nut (MS21044-N4)			2	2	2	2	2	2	2	
6	95-10400	095-10400	Washer (AN960-4-16)			2	2	2	2	2	2	2	
7	95-10200	095-10200	Washer (AN960-416L)			2	2	2	2	2	2	2	
8	079-00300	079-00300	Screw-Bleeder			1	1	1	1	1	1	1	
9	081-00100	081-00100	Seat-Bleeder			1	1	1	1	1	1	1	
10	183-00100	183-00100	Cap-Bleeder			1	1	1	1	1	1	1	
	073-00300	073-00300	Pressure Plate Assy.			1	1	1	1	1	1	1	
11	063-00500	063-00500	Pressure Plate			1	1	1	1	1	1	1	
12	066-10600	066-10600	Lining			1	1	1	1	1	1	1	
13	15-00200	105-00200	Rivet			3	3	3	3	3	3	3	----
	074-00200	074-00200	Back Plate Assy.			1	1	1	1	1	1	1	
14	064-00500	064-00500	Back Plate			1	1	1	1	1	1	1	
12	66-106	066-10600	Lining			1	1	1	1	1	1	1	
13	15-00200	105-00200	Rivet			3	3	3	3	3	3	3	----
15	68-00401	06-01196	Shim										1
16	06-00011	103-12100	Bolt			2	2	2	2	2	2	2	
		103-11500	Bolt										2
17	075-00800	075-00800	Torque Plate Assy.			1	1	1	1	1	1	1	
	75-19300	06-01201	Torque Plate Assy.										1

**MODEL NO. 30-9** used with wheel 40-78..... P/N 30-9.....



**6 x 6 BRAKE ASSEMBLIES**

FIG	Cleveland P/N	Part No.	r p t o	A	Nu	Qt . P r A				Pr Ea.			
						30-56	30-56A	30-63	30-63A		30-63D		
	091-02200	091-02200	Cylinder Assy.							1	1	1	
1	061-01900	061-01900	Cylinder			1	1	1	1	1	1	1	
2	062-01600	062-01600	Piston			1	1	1	1	1	1	1	
3	101-05200	101-05200	"O" Ring			1	1	1	1	1	1	1	
	073-01100	073-01100	Press. Plate Assy.			1	1	1	1	1	1	1	
4	063-01200	063-01200	Plate-Press.			1	1	1	1	1	1	1	
5	66-105	66-155	Lining			1	1	1	1	1	1	1	
6	RA105-00200	RA105											

# BRAKE PARTS - SHIMMY DAMPERS

## GOODYEAR BRAKE PARTS

Most replacement parts are available for aircraft still equipped with Goodyear wheels and brakes. We provide prompt shipment on replacement parts such as brake linings, brake discs, clips, etc. Request quotation on any unlisted Goodyear part numbers.

### Brake 5.00 x 5, Cessna 150, Assy. No. 9532302

5010727..... Anvil Lining ..... a.  
9524161-1 ..... Piston Lining ..... a.

### Brake 6.00 x 6, Cessna 120, 140, Aeronca 7AC, 11AC, Swift, Lus., Assy. No. 9520517

9511261-1 ..... Anvil/Piston Lining ..... a.  
9523482 ..... Disc Clips..... a.

### Brake 6.00 x 6, Cessna 120, 140, Swift, Luscombe, Sedan, Aeronca 11AC, Assy. No. 9520298

9520435..... Disc Clips, 4 required ..... a.

### Brake 6.00 x 6, Cessna 172, 175, 180, 182, 210, Lake, Assy. No. 9532181

9511271-2 ..... Anvil Lining ..... a.  
9511269-2 ..... Piston Lining ..... a.

### Brake 6.00 x 6, Cessna 170, 172, 175, 180, 182, 210 Assy. No. 9530839 Aeronca 7AC, 11AC, 15AC, Stinson 150, 165, Assy. No. 951239 & 9532181

9511271-2 ..... Anvil Lining ..... a.  
9511269-2 ..... Piston Lining ..... a.  
9523482 ..... Disc Clip ..... a.

### Brake 6.00 x 6, Aeronca 7AC, 11AC, Funk, Schweizer Glider, Luscombe 8,8A, Assy. No. 9530131, Assy. No. 511254

9520435..... Disc Clips, 4 required ..... a.

### Brake 6.00 x 6, Ercoupe Forney, Assy. No. 9520285

9523482 ..... Disc Clip ..... a.

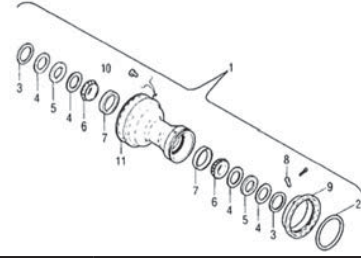
### Brake 6.50 x 8, Beech T34, 35, Camair, Assy. No. 511731

9510714-2 ..... Anvil Lining ..... a.  
9510713-1 ..... Piston Lining ..... a.  
9523937 ..... Disc Clip ..... a.

### Brake 6.50 x 10, Cessna 190, 195, 310, 320 Assy. No. 951731


5009853..... Piston Lining ..... a.  
95-10375 ..... Disc Clip, 5 required ..... a.

## GOODRICH 800X4 WHEEL FOR PIPER



Part No.	PN	Description	Price
1	06-00941	Wheel and brake Drum Assembly	.
2	A85-118	Lock Ring, Side	.
3	A85-218	Lock Ring, Felt Retainer	.
4	A56-4	Felt, Retainer	.
5	B227-52	Felt, Grease Retaining	.
6	08125	Cone, Bearing	.
7	08231	Cup, Bearing	.
8	A20-54	Pin, Anchor	---
9	B11-5	Casting, Side	.
10	AN441-6-6P	Rivet, Brake Drum	.
11	B13-4	Drum, Brake (I.D. Must be turned after installation.)	.

## GOODRICH BRAKE ASSEMBLY PARTS FOR ALL PIPERS WITH 8.00 X 4 WHEELS



Brake Block (750-033)  
P/N 06-00013.....

Spring (750-029)  
P/N 06-00430.....

Shield (750-093)  
P/N 06-01042.....

### DIAPHRAGM FOR BRAKE CYLINDER

Master cylinder diaphragm for Piper J-3/PA-11  
P/N 06-00759.....

LG

## LORD SHIMMY DAMPERS



This high performance shimmy damper is designed to last at least 10 yrs without maintenance and contains no hydraulic fluid, so it cannot leak. Priced at about half the cost of equivalent Cessna factory dampers. 5-yr warranty. All dampers are STC'd and PMA approved.

Model SE-1051-2 for Cessna 150, 152, 172....P/N 05-00443.....

**Note: The Lord Shimmy Damper PN 05-00443 will not work on Cessna 172 Years: 1956-1959**

Model SE-1051-3 for Cessna 150A-150F ..... P/N 05-00444.....

SE-1068-5 for Cessna # 0743624-2 ..... P/N 05-02610.....

for Cessna 206, 207, 210.....P/N 05-00446.....

SE-1070-7 Replacement for Cessna # SE-1070-4, SE-2070-6 For

Cessna 208, 208A, & 208B.....P/N 05-03382.....

**FOR COMPLETE INSTALLATION ELIGIBILITY LIST SEE:**  
[www.aircraftspruce.com](http://www.aircraftspruce.com)



## LOR SHIMMY DAMPER FOR BEECH AIRCRAFT

This nose gear shimmy damper from LORD Corporation is FAA approved for many models of Beech Aircraft. The patented technology provides consistent damping without maintenance. Instead of using fluids to resist motion, the shimmy damper features a unique rubber formulation with a high-tech lubricant to absorb nose wheel vibration. Length: 5-1/2". Long life - Demonstrated performance in excess of 5,000 ground-air-ground duty cycles, expecting a product life of more than 10 years of usage on typical, high-use, single-engine piston airplanes. Consistent damping - From -30 degrees to +150 degrees F. FAA Approved.

P/N 05-03421.....

B h A r r a t E t L t			
A36TC	B36TC	Bonanza 36	A36
G36	Bonanza 35	A35	B35
C35	D35	E35	F35
G35	H35	J35	K35
M35	N35	P35	S35
V35	V35-TC	V35A	V35A-TC
V35B	V35B-TC	E33	E33A
E33C	F33	F33A	G33A
Barron 55	A55	B55	C55
D55	E55	56TC	A56TC
58 Barron	58TC	58P	

## PIPER SHIMMY DAMPER SERVICING KIT

Finally, a shimmy damper servicing kit. One of the most neglected components on Piper aircraft is the shimmy dampener. The shimmy damper aids nose wheel steering by reducing the shimmy of the nose wheel during takeoff and landing, and during high-speed taxiing. Even minor shimmying can lead to serious damage to the nose gear and engine mount and affect the airworthiness of the aircraft. The shimmy damper is a sealed unit that, until now, could not be serviced and required costly replacement.

The STC and accompanying servicing kit allows the MAECO shimmy damper to be modified and serviced, restoring the shimmy damper to like-new condition and enabling it to perform as originally designed! The servicing kit installs in less than an hour by any A&P mechanic. Once modified, if the shimmy damper ever needs servicing again, the owner can service it with hydraulic fluid.

Important: Enter Piper Aircraft Model, Serial number, and "N" number at time of order. P/N 06-00846.....

**FOR COMPLETE INSTALLATION ELIGIBILITY LIST SEE**  
[www.aircraftspruce.com](http://www.aircraftspruce.com)



## LORD SHIMMY DAMPER FOR CESSNA AIRCRAFT 300/400 SERIES

Now STC'd for most models of Cessna's 300/400 Series Aircraft. The LORD shimmy damper can replace the original equipment, and provides consistent damping without maintenance or the use of hydraulic fluid, therefore- no leakage. It will last 8-10 years without service; features a unique rubber formulation with a high-tech lubricant to absorb nose wheel vibration; and LORD shimmy dampers can be found on most Cessna single engine aircraft in production today. LORD shimmy damper: P/N SE1090-1 (as an alternate for the 0842410-2 hydraulic damper). STC:

SA02546NY.

Models pending: R182 ; 335 and 402C.

Approved for all 300/400 series twins except the T303, 336, 337.

P/N 05-04185.....



# AIRCRAFT TIRE APPLICATION CHART

Tires/Tubes Certified Aircraft Application Chart - Tires are low speed unless designated. Tires are tube-type unless otherwise indicated. Consult aircraft manual for individual tire pressure. - **IMPORTANT: READ THIS LEGEND FIRST** -

**Code: TL = Tubeless; SC = Smooth Contour; DT = Deflector Type; DDT = Dual Deflector Type**

**APPLICATION CHARTS** - The application information presented within this manual is based on the most current information available and is intended for use as a **GENERAL REFERENCE ONLY**. Any inquiries regarding specific model aircraft should be directed to the applicable airframe manufacturer. Your requirements may vary depending on the actual configuration of your aircraft. All Goodyear aircraft tires are manufactured in accordance with TSO-C62, MIL-T-5041 or AIR8505A and/or applicable airframe manufacturer specifications. Additionally, all tire sizes included in this manual may not necessarily be available from Goodyear. Contact your Goodyear Representative for specific tire information and availability. **Failure to make this verification and to install unapproved tires on an aircraft may result in tire failure causing property damage, serious injury, or loss of life.**

## CESSNA

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
120, 140	—	6.00-6	4	5.00-5	4
150, 152	Commuter, Aerobat	6.00-6	4	5.00-5	4
172	Skyhawk	6.00-6	4	5.00-5	4
R172	Hawk XP	6.00-6	4	5.00-5	4
172 Q	Cutlass	6.00-6	6	5.00-5	4
172 RG	Cutlass RG	15x6.00-6	6	5.00-5	4
175	Skylark	6.00-6	4	5.00-5	4
177	Cardinal	6.00-6	6	5.00-5	4
177 RG	Cardinal RG	15x6.00-6	6	5.00-5	4
180	Skywagon	6.00-6	6	8.00"SC	6
182, T182	Skylane	6.00-6	6	5.00-5	6
182RG, T182RG	Skylane	15x6.00-6		5.00-5	4
185	Skywagon	6.00-6	6	8.00 SC	6
188	AG Wagon	22x8.00-8		10.00 SC	6
188	AG Wagon (optional)	8.50-10	6	10.00"SC	
205	—	6.00-6	6	5.00-5	6
206	Station Air	6.00-6	6	5.00-5	6
206, 207	Optional	8.00-6	6	6.00-6	4
207	Skywagon	6.00-6	8	6.00-6	8
208 (FLO)	Caravan	8.50-10	8	22x8.00-8	
208 (STA)	Caravan	6.50-10	8	6.50-8	8
210	Centurion	6.00-6	8	5.00-5	6
T210, P210	Turbo, Centurion	6.00-6	8	5.00-5	10
T303	Crusader	6.00-6	8	6.00-6	6
T303	Optional	6.50-8	8	6.00-6	6
310, T310	—	6.50-10	6	6.00-6	4
320, 340	—	6.50-10	6	6.00-6	4
336	—	6.00-6	6	15x6.00-6	
337	Super Skymaster	18x5.5	8	15x6.00-6	
401, 402	—	6.50-10	8	6.00-6	6
404	Titan	22x7.75-10	10TL	6.00-6	6
411	—	6.50-10	8	6.00-6	6
414	Chancellor	6.50-10	8	6.00-6	6
421	Golden Eagle	6.50-10	8	6.00-6	6
425	Conquest I	6.50-10	10	6.00-6	6

## BELLANCA

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
260A	Bellanca	6.00-6	6	6.00-6	4
17-30A	Viking	6.00-6	6	15x6.00-6	6/8
17-31A	Super Viking	6.00-6	6	15x6.00-6	6/8
17-31ATC	Turbo Viking	6.00-6	6	15x6.00-6	6/8
7GCAA	Citabria	6.00-6	4	5.00-5	4
7KCAB	Citabria	7.00-6	4	5.00-5	4
8KCAB	Decathlon	8.00-6	4	5.00-5	4
8GCBC	Scout	8.50-6	4/6	5.00-5	4

## MOONEY

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
MO-20	Ranger	6.00-6	6	5.00-5	4/6
MO-21C	Super	6.00-6	6	5.00-5	4/6
MO-22	Mustang	6.00-6	6	15x6.00-6	6
MO-20E	Chapparral	6.00-6	6	5.00-5	4
MO-20F	Executive	6.00-6	6	5.00-5	6
MO-20J	201	6.00-6	6	5.00-5	6
MO-20K	Turbo 231	6.00-6	6	5.00-5	6
M-20K	TSE	6.00-6	6	5.00-5	4
M-20M	Bravo	6.00-6	6	5.00-5	6
M-20S	Eagle	6.00-6	6	5.00-5	6
M-20R	Ovation	6.00-6	6	5.00-5	6

## COMMANDER AIRCRAFT

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
112	Commander	6.00-6	6	5.00-5	4
112B	—	7.00-6	6	5.00-5	4
112TC, TCA	—	7.00-6	6	5.00-5	6
114	—	7.00-6	6	5.00-5	6
114A, B	—	6.00-6	6	5.00-5	6

## BEECH

Mo	Na	Ma Tr			Aux ar Tr		
		Tr S	P		Tr S	P	
C-17R	Staggerwing	7.50-10	6		10.00SC	—	
BE 18	Twin Beech	11.00-12	8 TL		14.50SC	8TL	
BE 18H	Twin Beech	8.50-10	8 TL		8.50-10	8TL	
BE 19	Musketeer Sport	6.00-6	4		6.00-6	4	
BE 23	Musketeer	6.00-6	4		6.00-6	4	
BE23C, BE-A24	Sundowner	6.00-6	4		6.00-6	4	
BE 24-R	Super Sierra	6.00-6	4		5.00-5	4	
BE 33A	Bonanza	7.00-6	6		5.00-5	4	
BE 35	Bonanza	7.00-6	6		5.00-5	4	
BE 36	Bonanza	7.00-6	6		5.00-5	4	
BE 50	Twin Bonanza	8.50-10	6		6.50-10	4	
BE B55	Baron	6.50-8	8		5.00-5	6	
BE C55	Baron	6.50-8	8		5.00-5	6	
BE E55	Baron	6.50-8	8		5.00-5	6	
BE 58	Baron	6.50-8	8		5.00-5	4	
BE 60	Duke	19.5x6.75-8	10TL		15x6.00-6	4	
BE 65	Queen Air	8.50x10	8TL		6.50-10	6TL	
BE-80	Queen Air	8.50-10	8TL		6.50-10	6TL	
BE-C90B	King Air	8.50-10	8TL		6.50-10	6TL	
BE-B200	Super King Air	18x5.5	10TL		22x6.75-10	8TL	
BE-200T	Super King Air	22x6.75-10	8TL		22x6.75-10	8TL	
BE-99	—	18x5.5	8 TL		6.50-10	6TL	
BE-300/350	Super King Air	22x6.75-10	8TL		19.5x6.75-8	10TL	
BE-2000	Starship 1	H19.5x6.75-10	8 TL		19x6.75-8	10TL	

## PIPER

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
J3	Cub	8.00-4	4	8.00"SC	Solid
PA18-135	Super Cub	6.00-6	4	8.00"SC	Solid
PA18-150	Super Cub	6.00-6	4	6x2.00	Solid
PA22	Tri Pacer	6.00-6	6	6.00-6	6
PA23, 160-235	Apache	7.00-6	6	6.00-6	4
PA23-250	Aztec	7.00-6	8	6.00-6	4
PA24-180	Commanche	6.00-6	4	6.00-6	4
PA24, 250, 260, 400	Commanche	6.00-6	6	6.00-6	4/6
PA25-150	Pawnee	7.00-6	4	8x3.00-4	4
PA25, 236, 260	Pawnee	8.00-6	4	8x3.00-4	4
PA28R-201	Arrow	6.00-6	6	5.00-5	4
PA28-140	Cherokee	6.00-6	4	6.00-6	4
PA28-150	Cherokee	6.00-6	4	6.00-6	4
PA28-151, 161	Warrior	6.00-6	4	5.00-5	4
PA28-160	Cherokee	6.00-6	4	6.00-6	4
PA28-180	Cherokee	6.00-6	4	6.00-6	4
PA28-181	Archer	6.00-6	4	5.00-5	4
PA28-235	Cherokee	6.00-6	4	6.00-6	4
PA30	Twin Commanche	6.00-6	4	6.00-6	6
PA31	Navajo	6.50-10	8	6.00-	6
PA31	Chieftain	6.50-10	8	6.00-6	6
PA31T	Navajo	6.50-10	10	6.00-6	6
PA31P	Pressurized Navajo	6.50-10	8	6.00-6	8
PA31T-500	Cheyenne 1A	6.50-10	10	6.00-6	6
PA32	6-300	6.00-6	6	6.00-6	6
PA32RT300	Lance	6.00-6	8	6.00-6	4
PA31P-350	Mojave	6.50-10	8	17.5x6.25-6	10
PA34-220	Seneca	6.00-6	8	6.00-6	6
PA36	Brave	8.50-10	6	10x3.5-4	6
PA38	Tomahawk	6.00-6	6	5.00-5	6
PA42	Cheyenne IIIA	6.50-10	12 TL	17.5x6.25-6	10
PA44-180	Seminole	6.00-6	6	6.00-6	6
600/601B (PA60)	Aerostar	6.50-8	8TL	6.00-6	6
601P(PA60-601P)	Aerostar	6.50-8	8 TL	6.00-6	6
602P(PA60-602P)	Aerostar	6.50-8	8 TL	6.00-6	6
700P(PA60-700P)	Aerostar	6.50-8	8 TL	6.00-6	6
PA46-350P	Malibu Mirage	6.00-6	8	5.00-5	6
PA34-270T	Seneca V	6.00-6	8	6.00-6	8
PA44-180	Seminole	6.00-6	8	5.00-5	6
PA32R-301	Saratoga II HP	6.00-6	8	5.00-5	6
PA32R-301T	Saratoga II TC	6.00-6	8	5.00-5	6
PA28-181	Archer III	6.00-6	4/6	6.00-6	4
PA28-161	Warrior III	6.00-6	4	5.00-5	4

## MAULE

Mo	Na	Ma Tr		Aux ar Tr	
		Tr S	P	Tr S	P
MX-7-160	—	7.00-6	4/6	280/250-4	4
MXT-7-160	—	7.00-6	4/6	280/250-4	4
M-8-235	—	7.00-6	4/6	280/250-4	4
MX7-420	—	7.00-6	4/6	280/250-4	4

LG

# GOODYEAR TIRES & TUBES



**Flight Custom III™**

Goodyear Flight Custom III™ Tires are the ONLY General Aviation tires with Kevlar :

- Antioxidant formulation to help reduce cracking.
- Deeper Tread Depth.
- Wide Aquachannels®.
- Kevlar® belt package.
- Premium Wingstay® formulation.
- Dual polymer tread compound.
- Get up to 20% more landings.
- Superior wet traction, enhanced treadwear.
- The Goodyear® Flight Custom III® offers up to 20% more landings to removal than its predecessor. Dupont tm and Kevlar (circleR) are trademarks or registered trademarks of E. I. du Pont de Nemours and Company. Results may vary based on proper maintenance, runway and operating conditions.



**Flight Special II™**

A popular replacement tire for light aircraft, the Flight Special is an unsurpassed combination of value and performance. Designed for long treadlife, this tire is built to last. Every strand of nylon cord in the casing has been triple tempered with time, tension and temperature to provide the ultimate in tire construction, uniformity and strength.

**FEATURES:**

- Wide rib tread design and large footprint
- Enhanced tread compound for uniform wear and extended service life
- Triple-tempered nylon casing cord.

**BENEFITS:**

- Enhanced traction
- Uniform wear and extended

**SERVICE LIFE:**

- Excellent Treadwear.

Flight Mate Butyl tubes are packaged in a case of 10.

A "B" at the end of a description means BENT valve stem. An "S" at the end of a description means STRAIGHT valve stem.

- (1) For use in both 5.00-5 and G380x150-5 (15x6.00-5).
- (2) For use in both 6.00-6 and 15x6.00-6 tires.
- (3) For use in both 7.00-6 and 8.00-6 tires.
- (4) For use in 6.50-8, 19.5x6.75-8 & 22x8.00-8 tires.
- (5) Discontinued, call for Special Pricing.

-Natural rubber aircraft tubes comply with the requirements of Goodyear QAI 2525, which the U.S. Military has accepted in lieu of MIL-I-5014.

-Flight Mate (Butyl) tubes comply with the requirements of SAE document AS 50141.

## GOODYEAR TIRES – TUBE TYPE

Tr S	PR	r p t o	Sp (MPH)	Avg. W ht (lbs.)	Part No.	Pr	Ea h
5.00-4	6	RIB	120	4	06-04700	.	.
15X6.00-5 / G380-150-5	6	RIB	120	7	06-01078	.	.
5.00-5	4	Flight Custom III	160	7	06-04900-3	.	.
5.00-5	4	Flight Special II	120	5	06-07110	.	.
5.00-5	6	Flight Custom III	160	7	06-05100-3	.	.
5.00-5	6	Flight Special II	120	5	06-07100	.	.
5.00-5	10	Flight Special II	120	6	06-00208	.	.
15X6.00-6	6	Flight Custom III	160	9	06-05500-3	.	.
15x6.00-6	6	Flight Special II	160	8	06-07340	.	.
6.00-6	4	Flight Custom III	160	11	06-05200-3	.	.
6.00-6	4	Flight Special II	120	9	06-07200	.	.
6.00-6	6	Flight Custom III	160	11	06-05400-3	.	.
6.00-6	6	Flight Special II	120	9	06-07300	.	.
6.00-6	8	Flight Custom III	160	11	06-05410-3	.	.
6.00-6	8	Flight Special II	120	9	06-07310	.	.
6.50-8	6	Flight Custom III	160	14	06-05600-3	.	.
6.50-8	8	Flight Custom III	160	14	06-05800-3	.	.
6.50-8	8	Flight Special II	120	12	06-07320	.	.
6.50-10	8	Flight Custom III	160	16	06-06100-3	.	.
6.50-10	8	Flight Special II	120	14	06-00209	.	.
6.50-10	10	Flight Custom III	160	17	06-06110-3	.	.
7.00-6	6	Flight Custom III	160	13	06-06200-3	.	.
7.00-6	6	Flight Special II	120	10	06-07330	.	.
7.00-6	8	Flight Custom III	160	13	06-06210-3	.	.
8.00-4	4	RIB	120	9	06-06600	.	.
8.00-6	6	Flight Special II	120	13	06-01145	.	.
8.00-6	8	Flight Special II	120	12	06-00212	.	.
8.50-6	6	RIB	120	12	06-06820	.	.
8.50-10	8	Flight Custom III	160	24	06-06900-3	.	.
6.00-6.5 / 420X150	4	RIB	120	6	06-01088	.	.
18X5.5	8	Flight Special II	120	11	06-00203	.	.
22X8.00-8	6	Flight Special II	120	14	06-00205	.	.



## GOODYEAR TIRES – TUBELESS

Tr S	PR	r p t o	Sp (MPH)	Avg. W ht (lbs.)	Part No.	Pr	Ea h
5.00-4	14	RIB	120	7	06-01057	.	.
6.00-6	8	Flight Custom III	160	12	06-01058	.	.
17.5X6.25-6	10	Flight Special II	160	11	06-00202	.	.
6.50-8	8	Flight Custom III	160	15	06-01060	.	.
6.50-10	6	Flight Custom III	160	17	06-05900-3	.	.
6.50-10	12	Flight Special II	160	21	06-00210	.	.
7.00-6	10	Flight Custom II	120	12	06-01061	.	.
7.00-8	10	RIB, All Weather	120	15	06-01062	.	.
7.50-14	12	RIB	160	36	06-01063	.	.
8.50-10	8	Flight Custom III	160	27	06-01064	.	.
8.50-10	10	Flight Custom III	160	28	06-01065	.	.
8.90-12.50	6	RIB	160	29	06-01066	.	.
8.90-12.50	6	RIB, All Weather	160	24	06-01067	.	.
9.00-6	10	RIB	120	22	06-01068	.	.
9.25-12 / 28X9.0-12	12	RIB	160	38	06-01069	.	.
11.00-12	10	RIB	160	45	06-01070	.	.
13X5.0-5	8	Smooth	120	7	06-01071	.	.
14.5X5.5-6	14	RIB	120	10	06-01072	.	.
15X6.0-6	10	Flight Custom II	160	9	06-01073	.	.
22X6.75-10	8	Flight Custom III	160	20	06-01074	.	.
26X10.5-6	6	Smooth	120	23	06-01075	.	.
29X11.00-10	10	RIB	120	36	06-00206	.	.
15.00-12	14	RIB	160	59	06-01076	.	.
15.00-16	16	RIB	120	95	06-01077	.	.

## GOODYEAR TUBES

Tu S	r p t o	Avg. Weight (lbs.)	Part No.	Pr	Ea h
5.00-4 Flight Mate	Butyl Tube AC 21, B	1	06-01049	.	.
5.00-4 Flight Mate	Butyl Tube TR 67, B	1	06-04800	.	.
5.00-5 Flight Mate	Butyl Tube TR 67A (1), B	1	06-05000	.	.
6.50-10 Flight Mate	Butyl Tube TR 25, S	2	06-06000	.	.
7.00/8.00-6 Flight Mate	Butyl Tube TR 20, (3), S	2	06-06300	.	.
7.50/8.50-10 Flight Mate	Butyl Tube TR 25, S	3	06-07000	.	.
8.50-6 Flight Mate	Butyl Tube TR 20, S	3	06-01050	.	.
8.90-12.50 Flight Mate	Butyl Tube TR 15, S	6	06-01051	.	.
11.00-12	Reg. Tube TR 13, S	7	06-01052	.	.
12.50-16	Reg. Tube TR 101C, B	10	06-01053	.	.
G15/6.00-6 Flight Mate	Butyl Tube TR 67A, B	1	06-05305	.	.
G15/6.00-6 Flight Mate	Butyl Tube TR 20, (2), S	1	06-05300-1	.	.
17.00-16	Reg. Tube TR 91G, B (5)	14	06-01054	.	.
18X5.5	Reg. Tube TR 67A, B (5)	2	06-01055	.	.
G19.5X6.75-8 Flight Mate	Butyl Tube TR 15, (4), S	2	06-05700	.	.

# SPECIALTY TIRES & TUBES

## MCCREARY TIRES & TUBES

Mfg. by Specialty Tires of America



These fine nylon cord tires with rib tread design are rigidly tested to meet FAA Standard TSO-C62. Air Trac tires are original equipment on many of today's aircraft and offer great

performance in an economical tire. Air Hawk are premium grade tires, cost more but provide longer service life. Performance, construction, and safety you can count on from McCreary tires and tubes. Compare prices and get the best savings and faster service from Aircraft Spruce.

### MCCREARY "AIR TRAC" TIRES

Tube-Type	P	Wt./L	Tr Pr	ur	Max. Loa	Tr	Tu
Tr S	Rat		PSI (a)	Rating	Lbs.(a)	Part No.	Pr Part No.
5.00-5	4	4.4	31	800	06-08210	.	06-08300
5.00-5	6	4.3	50	1285	06-08200	.	06-08300
6.00-6	4	6.8	29	1150	06-08400	.	06-08700
6.00-6	6	7.0	42	1750	06-08500	.	06-08700
6.00-6	8	7.3	55	2350	06-08600	.	06-08700
15x6.00-6	4	6.3	45	1250	06-08800	.	06-08901
15x6.00-6	6	6.6	68	1950	06-08900	.	06-08901
6.50-8	6	9.5	51	2300	06-09000	.	06-09200
6.50-8	8	10.0	75	3150	06-09100	.	06-09200
6.50-10	6	10.7	60	2770	06-09300	.	06-09500
6.50-10	8	12.0	80	3750	06-09400	.	06-09500
6.50-10	10	15.2	100	4750	06-09410	.	06-09500
7.00-6	6	9.0	38	1900	06-09600	.	06-09800
7.00-6	8	9.4	54	2550	06-09700	.	06-09800
7.50-10	6	14.3	46	3000	06-09710	.	06-09810
8.00-6	4	10.0	23	1350	06-09900	.	06-09800
8.00-6	6	10.3	35	2050	06-10000	.	06-09800
8.50-6	6	16.5	30	2275	06-10100	.	06-10200
8.50-10	6	16.5	41	3250	06-10300	.	06-10500
8.50-10	8	19.5	55	4400	06-10400	.	06-10500

The 7.00/8.00-6 tube can be utilized in both 7.00-6 and 8.00-6 tires.

### MCCREARY "AIR HAWK" TIRES

Tube-Type	Tire Size	P	Rat	Wt./L	Part No.	Pr
5.00-5		4	3.8		06-07710	.
5.00-5		6	4.3		06-07700	.
5.005-5		10	6.2		06-07720	.
6.00-6		4	6.8		06-07800	.
6.00-6		6	7.0		06-07900	.
6.00-6		8	7.8		06-07910	.
6.50-8		6	10.5		06-07912	.
6.50-8		8	10.5		06-07914	.
6.50-10		6	11.5		06-07916	.
6.50-10		8	11.8		06-07918	.
6.50-10 Special		8	14.5		06-00416	.
6.50-10		10	16.2		06-07920	.
7.00-6		6	9.5		06-07922	.
7.00-6		8	9.4		06-07924	.
8.00-6		4	10.4		06-07926	.
8.00-6		6	10.7		06-07928	.
800x6		8	11.8		06-07929	.
8.50-10		6	19.9		06-07932	.
8.50-10		8	23.3		06-07934	.
17.5/625-6		10	--		06-00309	.
18-5.5		8	--		06-00310	.
22/800-8		6	--		06-00311	.
29/1100-10		10	--		06-00312	.

### MCCREARY "SUPER HAWK" TIRES

These are premium light aircraft tires which provide a stiffer, heavier sidewall and more cut resistant tread. Nylon belted for flexibility and even wear with wide center rib for best runway contact.

Call for pricing on other sizes of Hawk Tires.

Part No.	Tr S	P	Rat	Pr	Ea.
06-17000	5.00-5	6		.	
06-18000	6.00-6	6		.	
06-17500	6.50-10	8		.	
06-17505	6.00-6	8		.	
06-17510	6.50-10	10		.	
06-17515	7.00-6	6		.	
06-17520	7.00-6	8		.	
06-17525	6.50-8	6		.	
06-17530	6.50-8	8		.	

### MCCREARY "AERO TRAINER" TIRES

Tu	T p	Tr S	P	Part No.	Pr	Ea h
5.00-5			6	06-01700	.	
6.00-6			6	06-01800	.	

Aero Trainer Tires use standard McCreary tubes listed above

### MCCREARY AERO CLASSIC TIRES

	S	P	Part No.	Pr
Nylon Tubless Tires	27" Diamond Tread	10	06-00080	.
	27" Rib	10	06-00081	.
	8.90 x 12.50 Diamond	6	06-00082	.
	8.90 x 12.50 Rib	6	06-00083	.
	11.00-12 Rib	10	06-00087	.
Nylon Tube Type Tires	S	P	Part No.	Pr
	17.00-16 Rib	12	06-00084	.
	5.00-150 Rib	6	06-00085	.
	4.00-150 Rib	6	06-00086	.
	8.00 x 260 Rib	4	06-00088	.
	380/150-5	6	06-00313	.
Aero Classic Tubes	380 x 150-5 (15 x 6.00-5)	6	06-00089	.
	420 x 150 (6.00 x 6.5)	4	06-00090	.
	Tu S	Valve	Part No.	Pr
800-4	TR-12	06-00821	.	



## MCCREARY TIRE & TUBE PACKAGES

**600 X 6, 4 PLY KIT** - Consists of three McCreary 600 x 6 4 ply tires and tubes. Fits PA-24-180 Comanche, PA-28 Cherokee, Beech Musketeer, Musketeer Sport, and Sundowner.

W/Air Trac tires ..... P/N 06-21200 .....  
W/Air Hawk tires ..... P/N 06-21205 .....  
.....

**600 X 6, 6 PLY KIT** - Consists of three McCreary 600 x 6 6 ply Air Trac tires and tubes. Fits Piper PA-44 Seminole, PA-30 Twin Comanche, and Cessna 337.

W/Air Trac tires ..... P/N 06-21300 .....  
W/Air Hawk tires ..... P/N 06-21305 .....  
.....

**TWIN CESSNA KIT** - Consists of two McCreary 6:00 x 10 6 ply tires and tubes and one 600 x 6 6 ply tire and tube. Fits Cessna 310.

P/N 06-21400 .....  
.....

**6.00 X 6, 6 PLY / 5.00 X 5, 6 PLY KIT** - Two McCreary 6.00 x 6, 6 ply tires and tubes and one 5.00 x 5, 6 ply tire and tube. Fits Cessna 182, 182N; all 206 Skylane, Skywagon, and Station Air 207; Mooney 201, 220; Waco 250 260, PA-32 6-300 Lance.

W/Air Trac tires ..... P/N 06-21100 .....  
W/Air Hawk tires ..... P/N 06-21105 .....  
.....

**6.00 X 6, 4 PLY KIT** - Two McCreary 6.00 x 6, 4 ply tires and tubes. Fits Bellanca Citabria 7ECA, 7GCA-A, 7GCBC and 7KCA-B.

W/Air Trac tires ..... P/N 06-21110 .....  
W/Air Hawk tires ..... P/N 06-21115 .....  
.....

**6.00 X 6, 4 PLY / 5.00 X 5, 4 PLY KIT** - Two McCreary 6.00 x 6, 4 ply tires and tubes and one 5.00 x 5, 4 ply tire and tube. Fits Beech Super/Musketeer Sierra; Cessna 150, 172, 175, 177; Grumman AA1B, AA5; PA-28, 151, 180R, 200R.

W/Air Trac tires ..... P/N 06-21120 .....  
W/Air Hawk tires ..... P/N 06-21125 .....  
.....

**6.00 X 6, 6 PLY / 5.00 X 5, 4 PLY KIT** - Two McCreary 6.00 x 6, 6 ply tires and tubes and one 5.00 x 5, 4 ply tire and tube. Fits Beech Debonair 33, 33A; Bonanza 33; Mooney 200, Mark 21C; Rockwell Commander.

W/Air Trac tires ..... P/N 06-21130 .....  
W/Air Hawk tires ..... P/N 06-21135 .....  
.....

**6.00 X 6, 6 PLY / 6.00 X 6, 4 PLY KIT** - Two McCreary 6.00 x 6, 6 ply tires and tubes and one 6.00 x 6, 4 ply tire and tube. Fits Bellanca 206, Viking; PA-24-250, 260, PA-32-260, 300.

W/Air Trac tires ..... P/N 06-21140 .....  
W/Air Hawk tires ..... P/N 06-21145 .....  
.....

**6.50 X 10, 6 PLY / 6.00 X 6, 6 PLY KIT** - Two Air Trac 6.50 x 10, 6 ply tires and tubes and one 6.00 x 6, 6 ply tire and tube. Fits Cessna 310 & 320.

W/Air Trac tires ..... P/N 06-21150 .....  
.....

**6.50 X 10, 8 PLY / 6.00 X 6, 6 PLY KIT** - Two McCreary 6.50 x 10, 8 ply tires & tubes & one 6.00 x 6, 6 ply tire and tube. Fits Cessna 340, 401, 402, 411, 414, 421; PA-31-300, 310, 350, PA-31P-425.

W/Air Trac tires ..... P/N 06-21155 .....  
W/Air Hawk tires ..... P/N 06-21160 .....  
.....

**7.00 X 6, 6 PLY / 6.00 X 6, 4 PLY KIT** - Two McCreary 7.00 x 6, 6 ply tires and tubes and one 6.00 x 6, 4 ply tire and tube. Fits PA-23, 160, 235, 250.

W/Air Trac tires ..... P/N 06-21165 .....  
W/Air Hawk tires ..... P/N 06-21170 .....  
.....

**8.50 X 6, 6 PLY KIT** - Two Air Trac 8.50 x 6, 6 ply tires and tubes. Fits Bellanca Decathlon 8KCA-B and Scout 8GCBC.

W/Air Trac tires ..... P/N 06-21175 .....  
.....

LG



# TIRES - TUBES - WHEELS



## MICHELIN® AVIATOR® TIRES

The Michelin Aviator tire has many of the same features found on the top-of-the-line Michelin AIR. Like the Michelin AIR, the Aviator offers exceptional balance, a new sidewall configuration and an extra strong nylon casing. Also features tough MX1000 tread compound for long life, and a specialized sidewall compound to protect against ultraviolet light. And since it is available at a very attractive price, you'd be hard pressed to find a better tire for the money. Visit our website to download the Michelin Care & Service Manual in PDF format.

### MICHELIN AIRSTOP TUBES

Tu	S	Part No.	Pr	Tu	S	Part No.	Pr
500x5		06-00019	.	700x6		06-00848	.
600x6		06-00021	.	800x6		06-00847	.
650x10		06-00849	.	850x10		06-00850	.
15x6.00-6		06-00853	.	650x8		06-00851	.

### MICHELIN AVIATOR TIRES

T r S	P Rat	Part No.	Pr a	T r S	P Rat	Part No.	Pr a
500x5	6 ply	06-00016	.	650x8	8 ply	06-00315	.
600x6	4 ply	06-00017	.	700x6	6 ply	06-00316	.
600x6	6 ply	06-00018	.	15/600x6	6 ply	06-00308	.
600x6	8 ply	06-00314	.				

### MICHELIN AIR TIRES

T r S	P Rat	Part No.	Pr a	T r S	P Rat	Part No.	Pr a
500x5	6 ply	06-08052	.	650x10	8 ply	06-08065	.
600x6	8 ply	06-08058	.	650x8	8 ply	06-08070	.
700x6	6 ply	06-08059	.	700x6	8 ply	08-08075	.
850x8	8 ply	06-08060	.	600x6	6 ply	08-08080	.

### CON OR TIRES



Available in a variety of sizes for light to medium general aviation aircraft that have a max. ground speed of 120mph on the runway. All tires are tube type for use with Michelin, Goodyear or McCreary tubes.

P/N	S	P	Loa	Pr
06-08005	500x5	4	800	.
06-08010	500x5	6	1285	.
06-08015	600x6	4	1150	.
06-08020	600x6	6	1750	.
06-08025	600x6	8	2350	.
06-08030	700x6	6	1900	.
06-08035	700x6	8	2550	.
06-08040	15x600x6	6	1950	.
06-08045	800x6	6	2050	.
06-08050	800x6	8	2800	.
06-00195	500x5	10	--	.
06-00196	650x10	6	--	.
06-00197	650x10	8	--	.
06-00198	650x10	10	--	.
06-00199	650x8	8	--	.
06-00201	850x10	8	--	.

### AERO CLASSIC TIRES

Aero Classic is Desser's proprietary line of over 50 aircraft tires and tubes made to meet or exceed the original specifications.



S	P	Load (lbs.)		Part No.	Pr
10/350-4	4	460	Rib	06-01238	.
10/350-4	6	555	Rib	06-01239	.
11/400-5	8	500	Rib	06-01240	.
12.5-4.5	10	1,800	Channel	05-01241	.
15/600-5	6	1,600	Rib	06-01242	.
200-50	6	350	Rib	06-01243	.
280/250-4	4	460	Rib	06-01244	.
280/250-4	6	475	Rib	06-01245	.
380-150-5	6	1,600	Rib	06-01249	.
400-6	6	660	Rib	06-00944	.
420-150	4	1,750	Rib	06-01250	.
500-5	4	800	All Weather	06-01251	.
500-5	6	1,285	All Weather	06-01252	.
500-5	10	2,150	All Weather	06-01253	.
6 X 2	*	*	Solid Tire	06-01045	.
600-6	4	1,150	All Weather	06-01254	.
600-6	6	1,750	All Weather	06-01255	.
600-6	8	2,350	All Weather	06-01256	.
600-6.5	4	1,750	Rib	06-01257	.
700-7.5	6	2,250	All Weather	06-01258	.
700-8	6	2,400	All Weather	06-01259	.

## SHIN TIRES & TUBES



These industrial tires & tube assemblies from Goodyear and Shin are used on a unique variety of homebuilt & ultralight aircraft airplanes. Sold as set of tire & tube only.

	o	P	Part No.	Pr
4.10 x 3.50 x 4	4	4 PLY	06-10830	.
3.40 x 3.00 x 5	4	4 PLY	06-10840	.
4.10 x 3.50 x 5	2	2 PLY	06-10850	.
11 x 4.00 x 5	2	2 PLY	06-10860	.
15 x 6.00 x 6	2	2 PLY	06-10870	.
4.80 x 4.00 x 8	4	4 PLY	06-10880	.
4.10 x 3.50 x 4	4	4 PLY	06-00709	.
3.40 x 3.00 x 5	4	4 PLY	06-00711	.
CARLISLE TIRE				
3.40 x 3.00 x 5	--	--	06-00712	.
4.10 x 3.50 x 5	2	2 PLY	06-00713	.
4.10 x 3.50 x 5	--	--	06-00714	.
11 x 4.00 x 5	2	2 PLY	06-00715	.
11 x 4.00 x 5	--	--	06-00716	.
600 x 6	2	2 PLY	06-00717	.
15 x 6.00 x 6	--	--	06-00718	.
4.80 x 4.00 x 8	4	4 PLY	06-00719	.
4.80 x 4.00 x 8	--	--	06-00720	.

## 11.400 X 5 TIRES & TUBES



This tire fills the size gap between the 5.00-5 aircraft tire and the 3.40-5 industrial tire. Looks like a scaled-down 5.00-5. Fits VariEze, KR's and most experimentals using 5" wheels. Formerly known as Lamb tires, these are manufactured by Cheng-Shin.

11.400-5 (6 Ply) Tire	P/N 06-07400
11.400-5 (8 Ply) Tire	P/N 06-07500
11.400-5 Tube	P/N 06-07600
3.40/3.00 x 5 Tube	P/N 06-00712

## TIRES & TUBES FOR ULTRALIGHTS



TIRES						TUBES		
Part No.	No.	S	W	a.	Pr	Part No.	S	Pr
TI006	300 x 4	3.2"	10.0"		.	TI013	300x4	.
TI005	400 x 5	3.9"	10.5"		.	TI012	3.50x5	.
TI001	400 x 6	4.1"	13.0"		.	TI011	600x6	.
TI004	500 x 6	4.8"	12.6"		.	TI014	400x5	.
TI002	600 x 6	5.9"	14.8"		.	TI007	800x6	.
TI003	800 x 6	6.0"	16.3"		.	TI015	500 x 6	.

## BERINGER 6" LIGHT WHEELS



- Dimension: 6.00-6 and 4.00-6
- Static load: 881 Lbs Limit load: 3526 Lbs
- For tubeless mounting
- In three parts with rigid valve
- Alloy: 2017 (AU4G) machined from billet on CNC
- Stainless steel disc
- Following TRA 2002
- Complete wheel 6.00-6: 4.63 Lbs and 4.00-6: 4.25 Lbs
- Nose wheel weight 6.00-6: 3.10 Lbs and 4.00-6: 2.73 Lbs
- With ISO standards bearings for optimized durability and allowed to design a light axis: 025mm (1") for outer rim and 030mm (1.18") for inner rim (sealed ball bearings)
- Color: Red Anodized

r p t o	Part No.	Pr
Wheel 6.00-6" Light With Brake Disc	06-00952	.
Nose Wheel 6.00-6" Light	06-00953	.
Wheel 4.00-6" Light With Brake And Disc	06-00954	.
Nose Wheel 4.00-6" Light	06-00955	.

## AERO CLASSIC TUBES

Tested to MIL-I-5014F Supplier to USA Military & Foreign Armed Forces.

S	Valve	A	Part No.	Pr	S	Valve	A	Part No.	Pr
10/350-4	TR-87	90	06-01217	.	500-5	TR-67A	90	06-00755	.
11/400-5	TR-87	90	06-00357	.	600-6	TR-20	0	06-00754	.
1100-12	TR-13	0	06-01218	.	600-6	TR-67A	90	06-01229	.
12.5-4.5	TR-67A	90	06-00762	.	600-6.5	TR-67A	90	06-01230	.
15/600-6	TR-20	0	06-00770	.	650/700-8	TR-15	0	06-00766	.
15/600-6	TR-67A	90	06-01220	.	650-10	TR-25	0	06-01232	.
18-5.5	TR-15	0	06-01221	.	700/800-6	TR-20	0	06-00764	.
19.5/675-8	TR-15	0	06-01222	.	750-10	TR-25	0	06-00768	.
22/800-8	TR-15	0	06-01223	.	800-4	TR-12	0	06-01234	.
280/250-4	TR-87	90	06-00460	.	850-6	TR-20	0	06-01235	.
29/1100-10	TR-150	0	06-01224	.	850-10	TR-25	0	06-00769	.
420-150	TR-67A	90	06-01226	.	890-12.50	TR-15	0	06-01237	.
500-4	TR-67A	90	06-01227	.					

# NOSE WHEELS

## MATCO NOSE WHEELS

Mat o Part No.	Our Part No.	Dia. (in.)	B ar Ax a.	B ar T p S a	W th	Stat Capacity (lbs.)	Loa Limit (lbs.)	W ht (lbs.)	Pr
<b>MATERIAL: SPUN ALUMINUM</b>									
MH6N	06-00537	6	0.625	Ball	5.325	660	2000	2.6	.
MH6N-S	06-00539	6	0.625	Ball	5.325	660	2000	2.6	.
MH6N.75	06-00538	6	0.75	Ball	5.325	660	2000	2.6	.
MH6N-S.75	06-00540	6	0.75	Ball	5.325	60	2000	2.6	.
<b>MATERIAL: CNC CAST ALUMINUM</b>									
NW40B	06-00541	4	6.25	Ball	3	660	2000	2.25	.
NW40B.75	06-00542	4	0.75	Ball	3	660	2000	2.25	.
NW40R	06-00543	4	0.75	Taper/Roll	3	1185	3560	2.25	.
NW50	06-00544	5	0.75	Taper/Roll	3.88	1185	3560	3.24	.
NW51	06-00545	5	0.75	Taper/Roll	3.88	1185	3560	3.24	.
NW501.25	06-00546	5	1.25	Taper/Roll	3.88	1420	4260	3.24	.
NW511.25	06-00547	5	1.25	Taper/Roll	3.88	1420	4260	3.6	.
NW60	06-00548	6	1.25	Taper/Roll	3.5	1420	4260	3.24	.
NW600	06-00549	6	1.25	Taper/Roll	4.5	1420	4260	3.24	.
<b>MATERIAL: DIE CAST ALUMINUM</b>									
NW40EE	06-00550	4	0.625	Ball	3.25	660	2000	1.8	.
NW50CC	06-00551	5	0.625	Ball	4.38	660	2000	2.7	.
NW50CC.75	06-00552	5	0.75	Ball	4.38	660	2000	2.7	.
NW51CC	06-00553	5	0.625	Ball	4.38	660	2000	2.7	.
NW51CC.75	06-00554	5	0.75	Ball	4.38	660	2000	2.7	.
NW50CC.75R	06-00555	5	0.75	Taper/Roll	4.38	1185	3560	2.8	.
NW51CC75R	06-00556	5	0.75	Taper/Roll	4.38	1185	3560	2.8	.
NW60CC	06-00557	6	0.625	Ball	4.38	660	2000	3.22	.
NW60CC.75	06-00558	6	0.75	Ball	4.38	660	2000	3.22	.
NW60CC.75R	06-00559	6	0.75	Taper/Roll	4.38	1185	3560	3.52	.
NW600CC	06-00560	6	0.625	Ball	5.38	660	2000	3.47	.
NW600CC.75	06-00561	6	0.75	Ball	5.38	660	2000	3.47	.
NW600CC.75R	06-00562	6	0.75	Taper/Roll	5.38	1185	3560	3.52	.
NW80CC-Z	06-00563	8	0.625	Ball	3	660	2000	5.02	.

### BERINGER 5 INCH NOSE WHEEL KIT



Save 2 to 3 Lbs on your experimental aircraft with light-weight BERINGER nose wheels. Nose Wheels are aluminum red anodized, machined from billet on CNC, with O-rings for Tubeless mounting. Static capacity: 1440 Lbs (with appropriate tire). Aluminum axle for 5/16 bolt diameter.

The kit includes: 1 nose wheel with tire (mounted on rim, pressure tested) and 1 aluminum axle **Will be available**

in fourth quarter of 2008

A/C Mo	r p t o	PN	Pr
-	Nose wheel kit as described above, with Michelin Aviator Tire 5.00-5" 10ply Tubeless Weight: 8.9 Lbs	06-01097	.
Lancair 320, 360 (retractable LG)	Nose wheel kit as described above, with Lamb Tire 11x4.00-5", 8ply Weight: 5.9 Lbs	06-01098	.
Lancair legacy (retractable LG)	Nose wheel kit as described above, with Lamb Tire 11x4.00-5", 8ply Weight: 5.9 Lbs	06-01099	.
Glaisair III (retractable LG)	Nose wheel kit as described above, with Lamb Tire 11x4.00-5", 8ply Weight: 5.9 Lbs	06-01101	.
Zenair CH601	Nose wheel kit as described above, with Michelin Aviator Tire 5.00-5" 10ply Tubeless Weight: 9 Lbs	06-01102	.

### GROVE 4" NOSE WHEEL



Direct replacement for Brock and Gerdes 4" nose wheel. Use with 2.80-4 8" diameter tire on VE, LE, Cozy, etc. or with 4.10-4 10" diameter tire on Cozy Mark IV

- Genuine Timkin
- Felt Seals
- CNC precision Machined to exact tolerances
- Weight 1.87 lbs.
- Corrosion resistant finish
- Static Load Rating 900 pounds
- Model 49-3A ..P/N 06-00842 ..

**TIRE:** Uses 2.80/2.50; 4 ply tire .....PN 06-08000 ..  
or Uses 4.10x3.50x4 ply tire .....PN 06-00709 ..

### GROVE 400X4 NOSE WHEEL



The perfect nose wheel for light sport aircraft such as the KR and Soneri. • Static Load Rating 900lbs • Genuine Timkin Bearings • Uses 3/4" Axle • Felt Seals • Weight 1.98 lbs Model 49-1A .....P/N 06-00843 ..

**TIRE:** Uses 400 x 8 ply tire .....PN 06-00844 ..

or

Uses 4.10 x 3.50 x 4 ply tire ...PN 06-08102 ..

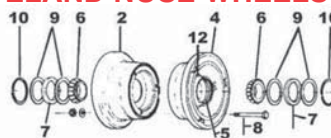
### GO-CART WHEELS



Cast aluminum wheels with 4" hub, for homebuilts and sailplanes. Used on Tri-Q conversion as nosewheel. 3-1/4" wide. Complete with 5/8" dia. ball bearings. Wt. 1-1/2 Lbs.

P/N 06-16540 ..... Ea.

### CLEVELAND NOSE WHEELS 500X5



#	OL PART NO.	PART NUMBER	DESCRIPTION	Q t P r A				PRICE EACH
				40-77	40-77A	40-85	40-87A	
2	162-28	162-02800	Outer Wheel	1	1	-	1	.
	162-36	162-03600	Outer Wheel	-	-	-	1	.
	08231	214-00300	Cup Bearing	1	1	1	1	.
12	217-1	217-00100	Grommet	1	1	1	1	.
4	161-31	161-03100	Inner Wheel Half Assy.	1	1	-	1	.
	161-38	161-03800	Inner Wheel Half Assy.	-	-	-	1	.
5	08231	214-00300	Inner Cup Bearing	1	1	1	1	.
8	103-1050	AN4-22A	Bolt	3	3	3	3	.
*	095-10400	AN960-416	Washer	6	6	6	6	.
	094-10300	AN365-428A	Nut	3	3	3	3	.
9	153-1	153-00100	Ring-Grease Seal	-	-	-	4	.
	153-8	153-00800	Ring-Grease Seal	4	4	-	-	.
	21-104	153-00200	Ring-Grease Seal	-	-	4	-	.
10	155-2	155-00200	Ring-Snap	2	2	2	2	.
7	154-1	154-00100	Felt-Grease Seal	-	-	-	2	.
	154-6	154-00600	Felt-Grease Seal	2	2	-	-	.
6	08125	214-00400	Cone-Bearing	2	2	2	2	.

500 X 5 NOSE WHEEL with 1-1/4" dia. bearings. Model No. 40-77A, used on some models of Cessna 150, is typical of nose wheels used on general aviation aircraft. FAA-approved.

P/N 40-77A.....

600 X 6 NOSE WHEEL with 1-1/2" dia. bearings. Model No. 40-76A (not illustrated) is used on some models of Cessna 172 and 182. FAA approved. P/N 40-76A .....

### HEGAR NOSE WHEELS

**6" SPUN ALUMINUM NOSE WHEEL** - The 6" Spun Aluminum nose wheel with 5/8 bearings. Comes centered when using the MX o-ring standard wheel hub but can also be purchased with the MX offset hub (no o-ring with offset hub. Requires the use of a tube. Comes complete with nuts, bolts, washers, valve stem, o-rings if required and the MX hub. May also be used as main wheels. P/N 06-01274 .....

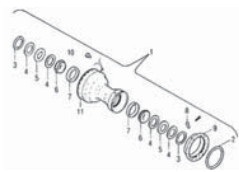
**6" BILLET ALUMINUM NOSE WHEEL** - 1-1/4" OR 3/4" Precision ball bearing. matches with the 6.375" Hegar Billet aluminum brake kit. P/N 06-01275 .....

**5" BILLET ALUMINUM NOSE WHEEL** - 1-1/4" OR 3/4" Precision ball bearing. matches with the 5" Hegar Billet aluminum brake kit. 6B X 5 with 6-3/8" Brake assembly P/N 06-01276 .....

# WHEELS & BRAKES

## CLEVELAND WHEEL & BRAKE CONVERSION KITS

### REPLACE 800 x 4 WHEELS ON PIPER AIRCRAFT



A bolt-on 600 x 6 wheel and brake conversion kit for Piper models: J3, J5C, PA11, PA12, PA14, PA15, PA16, PA17, PA18 & PA20 PA18-150 & PA18A-150 with Form 337. The 199-71-STC kit comes complete with STC paperwork

so form 337 is not required. Accommodates tire sizes 600 x 6, 700 x 6, 800 x 6. No landing gear modifications required. Minor modification of hydraulic line required. Uses double puck brakes. Fits 1-1/4" diameter axle size only. Fits Piper J4/J5 but STC does not cover these aircraft.

#### Magnesium Model for general use

P/N 199-71 .....	
P/N 199-71-STC (w/full STC paperwork) .....	
Aluminum Model for "AG" Service .....	
P/N 199-71A .....	

Part No.	r pt o	Qt
040-09804	Wheel Assy.	2
030-06602	Brake Assy.	2
067-02900	Spacer	2
067-03200	Spacer	2
040-07602	Nose Wheel Assy.	1
067-03100	Spacer	2
157-01000	Dust Shield	2
102-00600	Screws	6
095-15100	Washers	6
207-00300	Hydraulic Line	2
50-29	Installation Drawing NLG	1
50-30	Installation Drawing MLG	1
	Supplemental type cert.	1

### #199-52 NAVION CONVERSION KIT

Complete kit for co version to Cleveland 700 x 8 main gear and 600 x 6 nose wheel on Navion Models - A, B, C, D, E, F, G & H.

P/N 199-52 .....

### #199-52A NAVION CONVERSION KIT

Kit for conversion of maingear only.

P/N 199-52A .....

## REQUEST QUOTATION ON UNLISTED MODELS

### PIPER AZTEC BRAKE



r pt o	Part No.	Qt
Brake Assembly	30-96	2
Brake Disc	164-57	2
Nameplate	166-74	2
Installation Instructions	E.S.B. 7000-4	1

### CESSNA - WHEEL & BRAKE

P/N 199-46 .....  
 P/N 199-46C (Chrome) .....  
 (6.00x6) FOR CESSNA MODELS: 120, 140, (SN 8004 thru 13399), 140A (SN 13400 and up), 170, 170A, 170B, 172, 172A thru 172E, 175, 175A, 175B, 175C, P172D, 180, 180A thru 180E, 182, 182A thru 182G.

Description	Part Number	Qty.
Wheel Assy.	040-09701	2
Brake Assy.	030-06301	2
Bushing	145-02200	8
Bushing	145-01000	4
W & B Assembly Dwg.	20-134	1
Installation Instructions	50-24	1
Installation Instructions	50-25	1
Installation Instructions	50-26	1
Supplemental Type Certificate		1

### GLOBE SWIFT

P/N 199-48 .....  
 P/N 199-48C (Chrome) .....  
 Wheel and Brake Conversion Kit (6 00 X 6) for Globe Swift Models GC-IA, GC-IB.  
**NOTE: It will be necessary to change master cylinders and obtain the necessary axle hardware for conversion, Ref. dwg. 50-28. These parts can be obtained through Beech aircraft.**

r pt o	Part Nu r	Qt
Brake Assembly	030-07902	2
Wheel Assembly	040-11303	2
Spacer	067-02400	2
W & B Assembly Dwg.	20-130	1
Installation Drawing	50-23	1
Supplemental Type Certificate		1

### BEECH - WHEEL & BRAKE

P/N 199-49 .....  
 P/N 199-49C (Chrome) .....  
 (6.00x6) FOR BEECH AIRCRAFT MODELS: 35, A35 thru G35, 35R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36.

r pt o	Part Nu r	Qt
Brake Assembly	030-05400	2
Wheel Assembly	040-08300	2
Spacer	067-02600	2
W & B Assembly Dwg.	20-69	1
Installation Drawing	50-28	1
Supplemental Type Certificate		1

### BEECH - WHEEL & BRAKE

P/N 199-50 .....  
 (7.00x8) FOR BEECH AIRCRAFT MODELS: 35, A35 thru G35, 35R, H35, J35, K35, M35, N35, P35, S35, D55, D55A, E55, E55A 95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55A, 95-B55B, 95-C55, 95-C55A.

Description	Part Number	Qty.
Brake Assembly	030-06600	2
Wheel Assembly	040-09800	2
Spacer	067-02500	2
Spacer	067-02700	2
W & B Assembly Dwg.	20-135	1
Installation Drawing	50-27	1
Supplemental Type Certificate		1

**NOTE: It will be necessary to change master cylinders and obtain the necessary axle hardware for conversion, Ref. dwg. 50-27. These parts can be obtained through Beech aircraft.**

### CESSNA - WHEEL & BRAKE

P/N 199-60 .....  
 P/N 199-60C (Chrome) .....  
 (6.00x6) FOR CESSNA MODELS: 180, 180A, B, C, D, E, F, H, J, 185, 185A, B, A185E, A185F, 206E, 206F, TU206E, TU206F, 210, 210A, B, C, 210K, L, T210K, T210L.

r pt o	Part Nu r	Qt
Wheel Assembly	040-07502	2
Brake Assembly	030-05200	2
Installation Drawing (210 series)	50-34	1
Installation Drawing (180,185,206 Series)	50-35	1
Supplemental Type Certificate (210 series)		1
Supplemental Type Certificate (180,185,206 Series)	20-64	1

**NOTE: Kit to be used only on aircraft with 6.00 x 6 tires.**

### CESSNA - WHEEL & BRAKE

P/N 199-62 .....  
 P/N 199-62C (Chrome) .....  
 (8.00x6) FOR CESSNA MODELS: 180, 180A, B, C, D, E, F, H & J, 185, 185A, B, A185E, A185E, A185F, 206E, F, TU206E, TU206F.

r pt o	Part Nu r	Qt
Wheel Assembly	040-07504	2
Brake Assembly	030-05213	2
Installation Drawing	50-36	1
Supplemental Type Certificate		1

**NOTE: Kit to be used only on aircraft with 6.00 x 6 tires.**

### CESSNA - WHEEL & BRAKE

P/N 199-84 .....  
 P/N 199-84C (Chrome) .....  
**CESSNA APPROVED RETROFIT FOR THE FOLLOWING AIRCRAFT:**  
 150, F150, A150, FA150, 152, A152, F152, FA152, 177, 177RG, F177RG, 182, A182, F182

r pt o	Part Nu r	Qt
Wheel Assembly	030-07500(1)	2
Brake Assembly	040-11300(2)	2
Installation Drawing	50-36	1

**NOTE CESSNA CROSS REFERENCE NUMBERS**

(1) C-163030-113(LH) C-163030-114(RH) (2) C-163001-0104

### CESSNA - WHEEL & BRAKE

P/N 199-84A .....  
 P/N 199-84AC (chrome) .....  
**CESSNA APPROVED RETROFIT FOR THE FOLLOWING AIRCRAFT:**  
 F172, R172, FR172

r pt o	Part Nu r	Qt
Wheel Assembly	030-07501(1)	2
Brake Assembly	040-11300(2)	2
Installation Drawing	50-37	1

**NOTE CESSNA CROSS REFERENCE NUMBERS**

(1) C-163030-011(LH) C-163030-112(RH) (2) C-163001-0104

### WE CARRY ALL CLEVELAND CONVERSION KITS

Cessna P210N .....	P/N 199-60A .....
Cessna 310, 320 .....	P/N 199-64 .....
Cessna 421, 340, 401, 402, 414 .....	P/N 199-76 .....
Ercoupe .....	P/N 199-69 .....
Beech Duke .....	P/N 199-73 .....
Beech Musketeer .....	P/N 199-124 .....
Stinson .....	P/N 199-87 .....
Raytheon .....	P/N 199-123 .....
Raytheon .....	P/N 199-124C .....
Raytheon .....	P/N 199-90 .....

**PLEASE REQUEST QUOTE ON ANY UNLISTED KITS.**

LG



# BRAKES MASTER BRAKE CYLINDERS



## BERINGER BRAKE PADS

Friction material: sintered metal. High coefficient of friction, very long life time, no fading till very high temperatures: 1100° F  
Includes: 2 brake pads (for 1 brake caliper), bolts and procedure

OEM Brake pads for Beringer 2 pistons caliper . P/N 06-01103 .....  
OEM Brake pads for Beringer 3 pistons caliper . P/N 06-01104 .....  
Parking Brake Valve Mineral-Based Fluid ..... P/N 06-01108.....



## BERINGER STAINLESS STEEL BRAKE ISCS

Stainless steel, with precision heat treatment and grinding. Floating mount, in order to absorb dilata-tions and deformations when heated.

For 3 piston Brake caliper (thickness: 0.22") ..... P/N 06-01117 .....  
For 2 piston Brake caliper (thickness: 0.165") ..... P/N 06-01118 .....  
For 2 piston Brake caliper (thickness: 0.126") ..... P/N 06-01119 .....

## BERINGER BRAKE LINES FOR RV'S



Brake hose is stainless steel braided with PTFE inner tube and stainless steel fittings. It provides consistent brake pedal pressure without spongy feeling. The flexibility allows landing gear leg movements and avoids leakage that appears with hardline tube. These brake lines connect brake

calipers to fuselage connectors. Each brake line is pressure tested and delivered with certificate. Includes: set of 2 brake lines, certificate

Set of 2 Brake lines for RV6, 7, 9 ..... P/N 06-01122 .....  
Set of 2 Brake lines for RV6A, 7A, 9A ..... P/N 06-01123 .....

## BERINGER WHEEL O-RINGS



Repair kits are available for the following BERINGER® parts: Hand master cylinder, Rudder pedal master cylinder, 2 and 3 piston brake caliper.

Includes all wear parts: pistons, seals, screws, grease, repair procedure.

Part No.	Pr
Repair kit for rudder pedal master cylinder HBA01: all piston seals, specific grease, ball bearings, copper seals, instructions	06-01114 .
Repair kit for 2 piston caliper : piston seals, pistons, specific grease, copper washer	06-01115 .
Repair kit for 3 piston caliper : piston seals, pistons, specific grease, copper washer	06-01116 .

## CLEVELAND MASTER BRAKE CYLINDERS



**MODEL 10-35** - This model has a built-in reservoir and is used in production aircraft. Cast aluminum construction. 5/8" bore, 1.2" stroke, 0.36 cu. in. displacement. Outlet 1/8"

NPT. Pin center length 8". Designed to mount on rudder pedal. Formerly Gerdes Model A-049. .... P/N 10-35 .....  
Model 10-35 O-Ring Kit ..... P/N 199-513 .....



**MODEL 10-20** - Spring-loaded piston type assembly

without reservoir. Simple design assures long troublefree service. Pin center length 7-1/2". Bore 9/16". Stroke 1.25". Weight: 10 oz. Used on Pitts Special, Acro-Sport and other homebuilts. P/N 10-20 .....  
Model 10-20 & 10-19 O-ring kit ..... P/N 06-10600 .....



**MODEL 10-19** - Used on Pitts and other homebuilts. Similar to Model 10-20 except with ports

aligned differently ..... P/N 10-19 .....  
Model 10-20 & 10-19 O-ring kit ..... P/N 06-10600 .....



### MODEL 10-5

Same type construction as Model 10-20. Model 10-5 has parking brake feature, Model 10-5B does not. 1/8" NPT ports, on opposite sides of cylinder, have AN823-4D

fittings for use with 1/4" brake line. Pin center length 8". Wt. 9.5 oz. Bore 0.562". Stroke 1.25". Used on Piper PA25 & homebuilts.  
Master Cylinder Number 10-5 ..... P/N 10-5 .....  
Master Cylinder Number 10-5B ..... P/N 10-5B .....  
Model 10-5B O-Ring kit (199-503) ..... P/N 06-00708 .....  
Model 10-5 O-Ring kit (199-502) ..... P/N 06-10700 .....

## MATCO MASTER BRAKE CYLINDERS

### MC-5 VERTICAL



The MC-5 master cylinder is a vertically mounted cylinder with a built in reservoir. The MC-5 is used indi-vidually or in a dual brake application in which it acts as a remote reservoir for the MC-4 or MC-4A master cylinder under the copilot pedals

### MC-4 EXTERNAL RESERVOIR



which are connected in a series. The MC-5 master cylinder measures 8.00" from end to end and 7.500" from mounting hole to mounting hole. Overall width of the MC-5 at its widest point is a trim 1.78" and the mounting clevis features a .250 mounting slot. This master cylinder can be used in place of the Cleveland Part No. 10-35.

The MC-4 series can be mounted vertically or horizontally and uses a remote reservoir. The MC-4 is used for heel brakes as well as dual applications in which it replaces the shuttle valve in the braking system when placed under the copilot pedals and connected in a series.

The MC-4 master cylinder measures 8.250 inches from end to end and 7.8 from mounting hole to mounting hole. The MC-4A master cylinder is 8.125" from end to end and 7.375" from mounting hole to mounting hole. Overall width of both master cylinders is 1.371 inches and the mounting clevis has a .250 mounting slot. The MC-4 & MC-5 have a 5/8" bore and piston and 1-1/2" of stroke or travel to provide additional fluid. The MC-4A also has a 5/8" bore and piston with a stroke of 1 inch. This master cylinder can be used in place of the Cleveland part number 10-20. Use MIL-H-5606 red hydraulic fluid.

**VERTICAL STYLE** - Cylinder for vertical mounting, with steel housing and reservoir.

MC-5 ..... P/N 06-11000 .....

MC-5A (0.50" shorter than the MC-5) ..... P/N 06-00375 .....

**UNIVERSAL** - Vertical or horizontal mounting with exterior reservoir.

MC-4A P/N 06-11100 .....

MC-4 P/N 06-11150 .....

\*Replacement O-Rings for Master cylinders

P/N 06-11200 ..... / a



### MC-7 MASTER CYLINDER

The black anodized MC-6 is designed to attach to a 1" diameter control stick and function similar to a motorcycle brake. Designed for ultralight aircraft, it is completely self-adjustable as the lining wears and draws additional fluid from the cylinder. The 6:1 mechanical leverage

allows the average pilot to generate 1,500 psi in the system.

MC-7 P/N 06-00014 .....



## HEGAR MASTER CYLINDERS

**5" SINGLE LEVER MASTER CYLINDER** - 5" single lever, foot operated. Designed for single braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.

P/N 06-01277 .....

**5" DUAL LEVER MASTER CYLINDER** - 5" dual lever, foot operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.

P/N 06-01278 .....

**7" SINGLE LEVER MASTER CYLINDER** - 7" single lever, hand operated. Designed for single braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.

P/N 06-01279 .....

**7" SINGLE LEVER MASTER CYLINDER** - 7" dual lever, hand operated. Designed for differential braking. Comes in your choice of 1/2", 5/8" and 3/4" bore sizes.

P/N 06-01280 .....

## CESSNA RUDDER PEDAL EXTENSIONS



P/N 06-00838



P/N 06-00839



P/N 06-00641

The Saircorp/Flight Boss Ltd S-RPE Series Rudder Pedal Extensions fit most high wing Cessna aircraft from 1953 to 2008. Refer to Application Chart or AML for proper selection. They're constructed from high quality cast aluminum, have a durable Powder Coat finish and use Stainless steel fasteners. They are strong, durable and built to last. Installation and removal is quick and easy, the extensions lock in place over your existing rudder pedals giving you that extra needed reach. Your existing rudder pedals do not need to be removed or altered for installation or removal of the extensions. No more struggling or submarining to get that extra needed rudder deflection. Even "robust" and taller pilots can benefit from the S-RPE Series Rudder Pedal Extensions, allowing you to set back and get the yoke out of your chest. Easily installed, used right seat, left seat or both. See our website for a complete Application Chart or AML for proper selection.

EXT S-RPE-C - fits most 1960's to 1980's ..... P/N 06-00838 .....

EXT S-RPE-CN - fits most 1980's to 2000 and up P/N 06-00839 .....

EXT S-RPE-CO - fits most 1950's to 1960's .. P/N 06-00841 .....

# BRAKE RESERVOIRS - RUDDER PEDALS

## CLEVELAND BRAKE LINE BLEEDER 87-5



A unique tool which simplifies the brake bleeding job. This brake line bleeder can be used to service all brake assemblies utilizing the bleeder screw assembly pictured above. P/N 06-01202 .....

## ACS BRAKE BLEEDER ASSEMBLY



Universal brake bleeder fitting. Fits all standard brake systems. 1/8" male NPT Seat is brass. Bleeder screw is stainless steel. P/N 11225..... Ea.

## HYDRAULIC BRAKE BLEEDER TANK



Our Brake Bleeder Tank features a hand operated pressurizing pump for field use. It fills and bleeds in one operation. The high-impact plastic reservoir great for petroleum and water-based hydraulic fluid. NOT for use with Skydrol. You get everything needed including a universal adapter which will fit onto all brake receptacles.

**Not :** On Cleveland brake assemblies using a 79-3 bleeder screw the additional adapter 06-11414 is required.  
225DX Economy Bleeder Tank.....P/N 06-11413-1 .....

Option Adapter for Brake Bleeder.....P/N 06-11414 .....

## HOMEBUILDERS BRAKE BLEEDER



This easy to use system allows you to quickly and easily bleed and flush your brakes without the aid of another person. By using a reverse flow system, combined with slow fluid flow, one person can fill an empty brake system in less than 15 minutes without having air in the brakes. Works on most high wing aircraft and does not require compressed air. This system is so easy that once you start the process you can walk away; come back in 15 minutes later and the job is done. Not FAA approved. P/N 06-00120 .....

## ACS MODEL A-315 RESERVOIR



Machined from 6061-T6 billet and anodized for improved corrosion resistance. Available with choice of filler port location for firewall or floor mounting. Capacity 5 oz. Size: 2-1/4" dia. x 2-1/2" long. Wt: 7oz. Specify style.  
P/N A-315 (firewall mounting).....  
P/N A-315-1 (floor mounting).....

## ACS MODEL A-600 RESERVOIR



Machined from 6061T6 billet. Cap is threaded into body and sealed with a Viton o-ring for easy filling and cleaning. Cap and body have 1/8" female threads. 1-3/8" dia. x 2-3/8" high. Capacity 1.8 oz. Can be threaded directly into master cylinder port. Two units required on most installations (one per master cylinder). Supplied with vented plug in cap and 1/8" NPT male fitting in body. P/N 06-00391 .....

## MATCO BRAKE FLUID RESERVOIR



This brake fluid reservoir from Matco features a clear plastic bowl for easy inspection of reservoir fluid. Furnished with pre-drilled aluminum flange for easy mounting. Small and compact, this reservoir mounts almost anywhere. Temperature limit is 250°F Reservoir only...P/N 06-11225 .....

Reservoir Kit (includes reservoir, tubing, & fittings for installation) .....P/N 06-11230 .....

## MATCO REMOTE BRAKE FLUID RESERVOIRS



**MODEL 067-050** - Attaches directly to your master cylinder. Normal installation requires two (one for each master cylinder.) Supplied with 1/8" NPT fitting 1.98" high; 1.38" diameter Holds 1.10 fluid ounces. Weighs 1.5 ounces. P/N 06-00818 .....

**MODEL 067-054** - Designed to attach to firewall or other remote location. Adequate capacity to serve both master cylinders. Outlet has 1/8" female NPT thread at bottom of reservoir. 2.75" high; 1.75" diameter. Holds 2.42 fluid ounces. Weighs 3.6 ounces. P/N 06-00819 .....



## BERINGER FLUID RESERVOIR



Lightweight translucent plastic reservoir with aluminum anodized cover and brake fluid level indication. No leakage of fluid with flexible gasket. Use only DOT4 brake fluid in this reservoir. Working capacity: 0.3 cu in, total capacity: 0.67 cu in. Includes: 1 reservoir, EPDM hose 1.5 ft, stainless steel clamp. P/N 06-01105 .....



**DOT4 BRAKE FLUID** - High performance DOT4 brake fluid with dry boiling point of 440°F minimum, meets FMVSS 116/DOT4 specifications. Yellow colored and it is not compatible with brake system designed for mineral-based fluids. 1 Pint P/N 06-01106 .....

## UNIVERSAL AIRCRAFT HEEL PLATES



These Universal Heel Plates can be installed in any aircraft without fasteners or hardware. Velcro secures them to the floor or carpeting. The Heel Plates are available in 22 gauge stainless steel, with a clear finish. The stainless plates are available in brush finish only. Any of the heel plates can be customized by 1/2" high vinyl letters for aircraft name and tail numbers. Plates are 8" wide x 12" long with Velcro strips supplied, but not mounted. Sold in sets of two plates.

Stainless steel brush finish heel plates .....05-00839 .....

**SPECIAL ORDER COLORS AVAILABLE**

## ACS RUBBER PEDALS



Professionally made black powder coated aluminum pedals as used in production aircraft. Approved by Rutan Aircraft Factory for use on the Defiant. 5"W x 6"L. Wt. 3/4 lb. ea. P/N 06-00392 .....

**Discount Less 10% on 6 Pr., 15% on 12 Pr., 20% on 20 Pr.**

## ACS RUDDER PEDAL/ TOE BRAKE ASS'Y



For use with any standard master brake cylinders. 2-piece design. Completely finished, assembled, ready for installation. Wt. 2 lbs. each. P/N 11350 .....

**Discount Less 10% on 6 Pr., 15% on 12 Pr., 20% on 20 Pr.**

## AZUSA STEEL PEDAL SET



This rugged pedal set (left & right) features built-in stops, (4) 1/4" pre-drilled holes to allow adjustable rod connections and a 5/16"-18 x 1-3/4" long mounting volt. Wt 7oz. ea. length 6.5" P/N 06-00107 .....

## STARFLIGHT RUBBER PEDAL SET



These rudder pedals have been designed and optimized for the Lancair Legacy -- though they are easily integrated into other aircraft. They are overhead mounted, pilot adjustable and provide very precise, smooth rudder and brake control. Overhead mounting. Easily adjust for leg length by turning a small crank just behind the instrument panel. Brake master cylinders not included.\* Weight: 8 lbs \* Width: 14.4 in \* Height: 10 in \* Depth: 18 in \* Rudder cables not included. P/N 05-04405 .....

Standard..... P/N 05-04406 .....

## DELUXE HOMEBUILDERS' RUDDER PEDAL KITS



Designed for single or two place tandem seating experimental aircraft. The pedals are aluminum castings and the hinge bracket and pedal pivot pin are constructed from 4130 steel tubing. The pedals have an attachment point (1/4" hole) at the top to link the toe brake from the rear cockpit to the front cockpit only 2 master cylinders required). To mount the pedals the builder will need 2 steel bushings 3/4" long to weld through the fuselage and a tube to put through the bushings and the bottom tube of the hinge bracket. Will work well in almost any homebuilt aircraft. P/N 06-17015 .....

Single Place Kit..... P/N 06-17015 .....

Two Place Tandem Kit..... P/N 06-17025 .....

## RUDDER PEDALS FOR EXPERIMENTAL AIRCRAFT



Designed for the Loehle 5151 Mustang/P-40 these rudder pedals can easily be adapted to many light sport planes and ultralights. Made from spaceage polycarbonate, a material that is used when strength, light weight and durability are a necessity. Sample rudder pedals were shot with a .22 long rifle at a range of 10 yds, bullets failed to penetrate the 1/8" inch thick polycarbonate. Builder will have to fabricate simple back plates from either 1/8" thick birch plywood or 1/8" thick aluminum. An easy to understand detailed drawing is furnished with each set of rudder pedals. Specifications: Wt: 5.2 oz., Width: 4-1/8", Height: 9" ..... P/N 06-00001 .....

## AEROSHELL BRAKE FLUID



Petroleum-base hydraulic fluid for use with brake and hydraulic systems with synthetic rubber seals. Meets specification MIL-H-5606G. Colored red. P/N 09-27110 .....

Pint..... P/N 09-27110 .....

Qt..... P/N 09-27000 .....

Gal..... P/N 09-27100 .....

## PHILLIPS XC HYDRAULIC FLUID 5606A



ConocoPhillips Company's X/C Aviation Hydraulic Fluid 5606A is a mineral-based, aviation hydraulic fluid with low temperature properties that's capable of performing under severe operating conditions and wide temperature ranges. It's perfect for both mechanics and plane owners alike. Quart..... P/N 09-00774 .....

Case..... P/N 09-00773 .....

LG



# AXLES - BRAKE VALVES

## TAPER SHIMS

For wheel alignment. Ideal setting is zero toe-in and zero camber at normal operating weight. Shims may be rotated to any one of four positions to obtain desired result.



Ax S	Sh Part No.	Approx. correction value		Pr Ea h
		Ca r	Toe-In	
500x5	0441157-1	1/2°	0.06"	.
	0441157-3	1°	0.12"	.
600x6	0441157-2	2°	0.006"	.
	0441139-5	1/2°	0.12"	.
	0441139-6	1°	0.20-0.25"	.
	0541111-2	2-1/2°	0.10-0.25"	.

## DIAL-A-DEGREE SHIM

For builders using a 600x6/500x5/GAC/Azusa bolt-on axle. The solution to most minor alignment issues (0 to 3° adjustment). This simple solution uses a pair of specially tapered discs that are mated and rotated in any combination needed to orient each axle to its correct alignment. Each 3" dia. disc is machined and laser-cut from aircraft grade 6061 T6 aluminum. A pair of discs is used on each side. FAA-PMA approved (BDS-101) Set of 4 discs. P/N 06-00415

## CLEVELAND PARKING BRAKE VALVE

Aluminum valve as used in production aircraft with Model A-110 master cylinders for dual brake installations. Complete w/AN flare fittings. P/N 60-5

## MATCO PARKING BRAKE VALVE

This versatile parking brake valve is ideal for installation in a wide variety of homebuilt aircraft applications. The arm actuates the valve in approximately a 45 degree arc allowing for ease of installation. In-line installation can be used in conjunction with either a single or dual parking brake system setup. Its uniquely simple design allows for easy maintenance and replacement of parts. The parking brake valve body is made from 6061 anodized aluminum for lasting durability. P/N 06-17200

## MATCO SINGLE SIDED PARKING BRAKE VALVE

Light weight, and easy in-line installation. The overall dimensions of this product are a slim 2.3" X 0.75" X 0.75". P/N 06-01267

## SCOTT PARKING BRAKE VALVE

A fine quality valve for applications in parking brake systems, helicopter rotor braking systems, pneumatic pressure controls and other hydraulic uses. Molded rubber valve seat designed for use with MIL-H-5606BB petroleum base hydraulic fluid. Maximum working pressure. Mounting holes extend through entire body. 1/8" NPT ports. P/N 4500-A1

## MANUAL PARKING BRAKE VALVE

Miniature inline hydraulic manually operated ball valve. Fits in the bottom of the Master cylinder. Just pull the brake handle and hold the pressure and turn the lever on the ball valve. Let go of the handle and the ball valve holds the pressure until you release the lever back. 1/8"NPT Female x 1/8"NPT Male Chrome Plated Brass Valve 1.7" overall length. P/N 06-00971

## GROVE INLINE PARKING BRAKE VALVE

Innovative design allows control lever to be attached in any of four positions as well as on either side of valve body. Internal poppet valves insure easy, secure operation. Body is drilled for mounting with two 3/16" bolts. Valve body dimensions: 1.5"x2.0"x0.75". Control arm has 45° of travel. Max operating pressure: 1,200 psi. For use with MIL-H-5606 Hydraulic Fluid. Weight: 0.32 lbs. Side or top inlet ports: 1/8"NPT \* Outlet ports: 1/8" Female NPT or -4 Flare. P/N 06-01261

Part No.	Inlet	Outlet	Pr
06-01260	Top	1/8" NPT	.
06-01261	Side	1/8" NPT	.
06-01262	Top	-4 Flare	.
06-01263	Side	-4 Flare	.

## GOOSENECK HOSE COUPLING

Used on high pressure strut pump hose. High pressure connection with a swivel nut and female 1/8" NPT port on other end. P/N 06-11700  
Replacement Seal.....P/N SK2043-5

## STRUT VALVE

AN6287-1 strut valve for operating pressures up to 3000 PSI. Consists of a 3-piece stainless steel body, high-pressure valve core and MS20813-1B cap. P/N 06-00395

## HIGH PRESSURE VALVE CORES

#2300HV (Long Type, Length 1-3/16") Operating pressure range 70-2000 PSI from -10° to 165°F. Conforms to AN809-1. P/N 06-00397  
#9914A (Short Type, Length 7/8") Same operating range as #2300HV, but doesn't conform to AN809-1. P/N 06-00396

## 2525 VALVE CAP (MS20813-1B)

A heat-resisting cap designed to withstand high pressure conditions. Has special rubber sealing washer. P/N 2525

## HOMEBUILDERS SPECIAL MAIN GEAR AXLES - BOLT-ON TYPE



**500X5 AXLE** - Machined from 2024T3 aluminum. Gold anodized per specification MIL-A-8625C, Type II for improved corrosion resistance. Length 5-3/4". Mounting bolt pattern is four equally spaced 1/4" dia. holes on 1-15/16" dia. bolt circle. Thread size: 1-1/4 x 16. P/N 11701

**500X5 AXLE** - For 199-152 heavy duty discs (as used in Cozy). Same as #11701 axles above except 6" long and without undercut between bearings. P/N 11701-2

**SPACERS FOR 500 X 5 AXLE** - 2 required per axle when used with Cleveland wheels. Not required on 600x6 size. P/N 11716

**EXTRA WIDE SPACER FOR 500X5 AXLE** - 7/16" wide as used on 199-152 heavy duty discs. 1 required per axle with P/N 11716 (Use Axle # 11701-2) P/N 11716-2

**600X6 AXLE** - Similar to 500 x 5 size but 1-1/2" dia. x 6-1/4" long. Two 5/16" dia. and two 3/8" dia. mounting holes on 2-1/4" dia. bolt circle. Thread size: 1-1/2 x 16. P/N 11702

## AXLES - WELD-ON TYPE

**500 X 5 AXLE** - For use on welded type gear. Fabricated from 1-1/4" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/4 x 12 for round axle nut. 12" long. P/N 11703-1

**600 X 6 AXLE** - For use on welded type gear. Fabricated from 1-1/2" O.D. x .120 wall 4130N steel tubing. Precision ground for proper bearing fit. One end threaded 1-1/2 x 16 for round axle nut. 12" long. P/N 11704-1

## STEEL CESSNA AXLES

For use on flat spring landing gear, Cessna models 170, 172, 180, 182, 185 and 206. It is highly recommended to replace aluminum axles with these much stronger steel axles when operating on rough conditions, with larger wheels or on skis. FAA-PMA approved. P/N 05-00481

**COZY LANDING GEAR STUD** - a custom fabricated 4140 steel heat treated shaft with rolled 1/2-20 threads on both ends Used a gear attachment on Cozy Mark IV. 10.75"L. 2 required. P/N 01-00254

## PIPER COMANCHE LANDING GEAR BUNGEE COR INSTALLATION/REMOVAL TOOL

This tool allows for safe, simple, & quick bungee replacements on all Piper Comanches. Requires no dangerous levers, jacks, or vices, & does not subject the bungee cord to damage. Detailed instructions included. Bungee Cord Installation/Removal Tool..... P/N 12-00912  
Open End Ratchet for use w/Bungee Tool ..... P/N 12-00913

## AXLE NUTS

Castle type nuts manufactured to MIL Specification MS21025 using 4140 steel. Mild steel nuts are not acceptable for use on certificated aircraft. 1-1/4" dia. nuts for 500 x 5 axles, 1-1/2" dia. nuts for 600 x 6 axles.

	Nut T p	Thr a	Ax T p	Part No.	Pr
Matco	Castle	5/8-18	Matco	06-11815	.
---	Castle	1-1/4-16	Cessna	06-11800	.
---	Castle	1-1/2-16	Cessna	06-11900	.
ACS	Round	1-1/4-12	Piper	11725	.
ACS	Round	1-1/2-16	Piper	11726	.
Grove	Round	1-1/4-12	Piper	06-00937	.

**HOMEBUILDERS AXLE NUTS** - These 1-1/4" - 16 Castle axle nuts are similar in size & design to pn 06-11800 and are for homebuilts only. Used on Cozy and many other designs. PN 01-00814

## AIRCRAFT TIRE VALVE CORE

#6035 (38-830)(Short Type) Operating pressure range 0-400 PSI from -65° to 350°F. P/N 6035

## GROVE AXLES

For 500X5 Wheels w/Wheel Pant Stub - • Diameter: 1.25" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 1-15/16" bolt circle; 1/4" dia. holes. Requires (2) P/N5710 spacers per axle. P/N 06-00601  
For 600X6 Wheels w/Wheel Pant Stub - • Diameter: 1.5" • Material: Solid 2024-T3 aluminum w/anodized finish • Hole Pattern: 2.25" bolt circle; (2) 2-15/16" dia. bolt holes & (2) 2-3/8" dia. bolt holes. P/N 06-00602

## RUBBER AL RETURN SPRINGS

P/N 01-27300

LG



# SHOCK CORDS - RINGS



## MILL FRESH SHOCK RINGS

An endless elastic ring composed of multiple strands of natural rubber, wound into a circular skein. Braided cover is high grade yarn. Manufactured to meet specification MIL-C-5651B, Type II. Shock cord is used in landing gear to

reduce shock transmitted to fuselage while landing and taxiing and on other shock mounting applications. Color coded to insure fresh stock.

R No.	R (In.)	S (In.)	T (Lb.)	A r r a t	#	Part No.	Pr Ea.
9044	9/16x4-1/2	400		Hatz Bi-Plane	4	9044	.
9090	9/16x9	425		Taylorcraft B	4	9090	.
9010HD	9/16x10	475		Taylorcraft BC	4	06-00829	.
9010HDX	9/16" X 10"			Taylorcraft F-19/F-21	4	06-01132	.
1080	5/8x8	750		Stolp Starduster Rans S4/5	4	1080	.
1080HD	5/8x8	900		PA-16, PA-18	4	06-00823	.
				PA-20, PA-22, PA-25	4		.
1174	11/16x7-1/2	730		Piper J-2, Early J-3, J-5	4	06-00756	.
1192	11/16x9-1/4	750		Taylorcraft D	4	1192	.
11104	11/16x10-1/2	750		Taylorcraft L-2	4	11104	.
1280	3/4x8	750		Stolp Starduster Too	4	1280	.
1280-HD	3/4x8	950		Piper J-3 (S/N8277 up)	4	06-00826	.
				PA-11, PA-12, PA-14	4		.
				PA-18 (thru S/N18-3013) Rans	4		.
				S10 Acrosport, Pitts S-2	4		.
8097	1-1/2 x 9-7/8	400		PA-24, PA-30	2	8097	.
1286	3/4x8-3/4	750		Aeronca (S/N330 up)	4	1286	.
1286HD	3/4x8-3/4	950		Skybolt	6	06-00827	.
				PA-20 (before 1952)	2		.
1380	13/16x8	1160		Pitts (S-1, S-1C, S-1S)	4	1380	.
				Husky Acrosport 2, Rans S9	4		.

\*1st dimension is cross section; 2nd dimension is inside dia. of ring.  
HD - Heavy Duty, higher test rings. \*\*\*6 Rings for J-5.  
HDX - Extra Heavy Duty.

CW (Cold Weather) shock rings available on Special Order basis. Prices are approx. twice that of standard shock rings. Add "CW" to standard part number when ordering.

## SHOCK CORD

Made of fine natural rubber thread encased in a jacket of 2-ply woven cotton cord. Rubber strands are pre-stretched for an ultimate elongation of 120 to 140%. Treated to resist wear and oxidation. Meets specification MIL-C-5651B.

### TYPE 1

a. (In.)	Part No.	Pr /Ft. L Tha 100 Ft.	100 Ft.	a. (In.)	Part No.	Pr /Ft. L Tha 100 Ft.	100 Ft.
1/8	06-12100	.	.	1/2	06-12500	.	.
1/4	06-12200	.	.	5/8	06-12600	.	.
5/16	06-12300	.	.			.	.
3/8	06-12400	.	.			.	.

## SHOCK CORD FASTENERS

These cone spring hooks and locking rings are used as terminal fasteners. Insert cord through small end of cone. Apply and crimp locking ring about 1/2" from end of cord, pull cord back until locking ring contacts inside of fastener. Cut ends of cord may be sealed by dipping in rubber cement. Set includes

Sho	Cor	S	Fa t	r P/N	Pr	/S t
1/4"				06-12800	.	.
3/8"				06-12900	.	.
1/2"				06-13000	.	.



## SHOCK CORD INSTALLATION TOOL

This handy new tool installs standard shock rings on most aircraft without the great effort required in the past. This tool is designed for use with the shock cords shown above. Our price is the best anywhere. P/N 06-16600

Lower damage risk with the right tool • Complete control of bungee shock cords coming off • Complete control of bungee shock cords going on • E-Z instructions with detailed drawings • Safe landings depend on new cords every few years. P/N 06-00419

## BOGERT COMANCHE BUNGEE TOOL



Lower damage risk with the right tool • Complete control of bungee shock cords coming off • Complete control of bungee shock cords going on • E-Z instructions with detailed drawings • Safe landings depend on new cords every few years. P/N 06-00419

## BOGERT COMANCHE GEAR

### RETRACTION TOOLS



**Straight** - Fits: PA-24, SN 24-1 through 24-4782 & 24-4784 through 24-4803 P/N 12-02095  
**Angled** - Fits: All PA-30's, PA24, Serial number 24-4783, 24-4804 & up P/N 12-02094

### BUNGEE-MASTER



At last... a tool that takes the hassle out of shock cord installation. Bungee-Master is quick, easy, and safe. A one man operation. It is small and compact, and features all metal construction with black anodized finish. Shock cords are stretched evenly with Bungee-Master using easy bench top operation. Requires only a shop vise. Will install shock cords on J-3 Cub, PA-18 Super Cub, PA-20 Pacer, PA-22 Tri-Pacer, PA-22 Colt, and the PA-25 Pawnee P/N 06-03910

## SHOCK ABSORBER COIL RINGS



High pressure springs fabricated from alloy steel for top performance and long spring life. The Claude Gray shock absorber design has been service-proven on the EAA Biplane, Miniplane, Pitts and others. Over 1,000 pair in use. Length 6", 2" O.D., 1" I.D.. Wt. 4-1/2 lbs. per pair. Spring deflection 0.7" per 1,000 lb. force. Set of two springs. P/N 06-13200

Discount 10% on 6, 15% on 12

## GRANVILLE'S STRUT SEAL



Landing gear strut packing seals shrink due to fluctuating weather conditions and age. This specially engineered hydraulic chemical additive leaves a protective coating on the strut shaft and allows the seal to expand to its normal size. It will stop strut leaks and is an excellent lubricant and corrosion preventative. Application is fast and easy - any owner or pilot can do the job in minutes. FAA approved.

Single-Strut Kit ..... P/N 06-13300  
3-Strut Kit (Single Engine)..... P/N 06-13400  
3-Strut Kit (Medium Twins)..... P/N 06-13500  
Large Twin kit (16 oz)..... P/N 06-00110  
Granville Strut additive (Pt.)..... P/N 06-00111

## STRUT REBUIL KITS FOR CESSNA NOSE STRUTS

For Cessna models 150, 152, 172, 175, 182, R182, 205, 206, 210, T210, P210, 310-310Q, 320, 336, & 337. Includes 5 O-Rings, 2 Back-Up Rings, Scraper Ring, P/N 06-03960

## FOR PIPER NOSE STRUTS

For Piper PA28-140, 150, 151, 160, 161, 180, 181, & 235, PA32-260 & 300. Includes O-Rings, Back-Up Ring, Seal, Wiper & Aluminum Gasket. P/N 06-03965

For Piper PA28R & PA32R series retractable nose struts. Includes Seals, O-Rings & Gasket. P/N 06-03970

## FOR PIPER MAIN STRUTS

For Piper PA28-140, 150, 151, 160, 161, 180, 181 & 235, PA32-260 & 300. Includes O-Rings, Scraper, Seal & Aluminum Gasket. P/N 06-03975

For Piper PA28R & PA32R series retractable main struts, Includes Seals, O-Rings & Gasket. P/N 06-03980

## STRUT SEAL KITS FOR PIPER



Kits contain Mil-Spec & Industry Standard Seals and Components required for various Piper Strut application

Seal kit for nose or main strut for Piper Apache/Aztec ..... 06-00126

Strut seal kit for Piper PA-24 main gear ..... 06-00127

Strut seal kit for Piper PA24 nose gear..... 06-00128

Strut seal kit for Piper PA30 main gear..... 06-00129

Strut seal kit for Piper PA30 nose gear..... 06-00130

Main Strut seal kit for Piper PA28 140, 150, 151, 160, 161, 180, 181, 235, & PA32-260, 300 ..... 06-03975

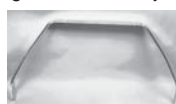
Nose strut seal kit for PA28-140, 150, 151, 160, 161, 180, 181, 235, & PA32-260, 300 ..... 06-03965

Main strut seal kit for PA28R & PA32R-300, 301, 301T, & PA32RT-300, 300T ..... 06-03980

Nose strut seal kit for PA28R & PA32R-300, 301, 301T, & PA32RT-300..... 06-03970

## HOMEBUILT AIRCRAFT LANDING GEAR

These custom landing gear are fabricated from aircraft grade 2024T3 aluminum. After cutting and milling, they are annealed to "O" condition for bending, and then heat-treated to "T6" condition for exceptional strength and durability. Top quality landing gear at exceptional pricing.



NOTE: Request landing gear layout sheet when placing order or quotation Request for custom landing gear to verify correct gear for application.

A r r a t T p	Part No.	Pr
KITFOX - Mod 3&4 TD	06-04025	.
PITTS - S1	06-03915	.
S1-11B SuperStinker	06-04035	.
Baby Lakes	06-04070	.
VP1 - 1100B Free Standing No Cables	06-04040	.
Zenair CH701	06-00058	.

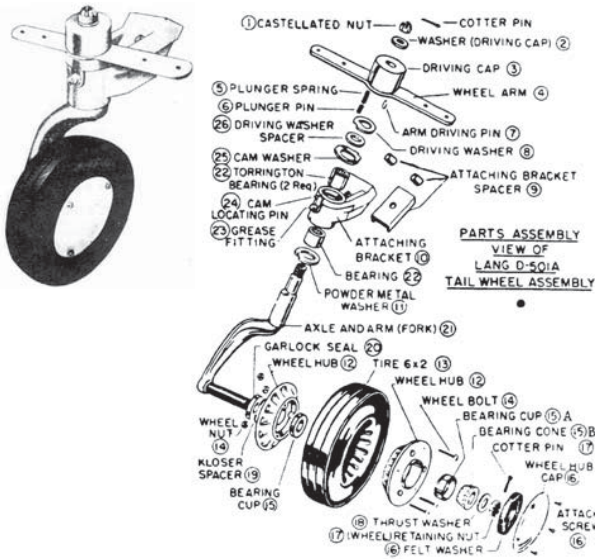
### NOTE

ALL GROVE AIRCRAFT LANDING GEAR IS NON-CANCELLABLE / NON-RETURNABLE.



# TAILWHEELS

## LANG TAILWHEEL PARTS



R No.	La No.	Part No.	Qt	Pr Ea h	R No.	La No.	Part No.	Qt	Pr Ea h
1&2	A-501, A521	06-13601	1	.	16	A-522, A-523 & A-524	--	--	--
3&7	A503, A507	06-13637	1	.			06-13600	1	.
4	A-504	06-13604	1	.	17	A-521	06-13617	1	.
5&6	A-505, A506	06-13656	1	.	18	A-531	06-13618	1	.
8	A-509	06-13608	1	.	19	A-546	06-13619	1	.
9	A-512, A560-1 A560-2	06-13609	1	.	20	A-547	06-13620	1	.
10	C-501	06-13610	1	.	21	C-503	06-13621	1	.
11	A-516	06-13611	1	.	22	A-554	06-13622	2	.
12	A-544, A545	06-13800	2	.	23	A-525	06-13623	1	.
13	A-590	06-15800	1	.	24	A-508	06-13624	1	.
14	A-548, A549	06-13614	3	.	25	A-511	06-13625	1	.
15A	A-518	13287	2	.	26	A-510	06-13626	1	.
15B	A-519	13286	2	.					

HUB ASS'Y (2 #12 Hub Halves, 3 #14Bolts & Nuts)..... P/N 06-13800  
 HUB ASS'Y W/ BEARING CUPS..... P/N 06-13900  
 WHEEL ASS'Y (Hub Ass'y & 2 Bearing Cups & Cones) . P/N 06-14000  
 WHEEL & TIRE ASS'Y (Wheel Ass'y & 6 x 2 Tire) .... P/N 06-14100  
 P/N 06-00398 .....

## THE LANG TAILWHEEL - FAA APPROVED STEERABLE - FULL SWIVEL

**THE ONLY TAILWHEEL TO MEET THE EXACTING REQUIREMENTS OF THE CHRISTEN EAGLES** - The Lang Model D-501-A Tailwheel is full swivel, fully automatic and steerable. It is impossible to throw the Lang tailwheel into full swivel unintentionally regardless of rough field conditions or cross winds. This tailwheel will not lock in any position except steerable, but releases easily when plane is pushed sideways or backwards by hand or when maneuvering plane on ground using brakes. The Lang tailwheel fits both 1-1/4" and 1-1/2" leaf springs. Drop forged, heat-treated 4130 chromoly steel fork of single arm type. The cast aluminum wheel is grease packed for 100 hours service. The 6 x 2.00 solid rubber tire has interior wire reinforcement for added strength. Manufactured by ACS Products Co. under FAA-PMA. All replacement parts available. The Lang tailwheel is FAA-approved for installation on many light aircraft including Aeronca 7AC, Piper J-3 and PA-12, Cessna 140, Luscombe and Taylorcraft. Comparable to Scott Model 2000. Wt. 6 Lbs. **OEM & DISTRIBUTOR PRICING AVAILABLE**

LG

## HOMEBUILDERS SPECIAL TAILWHEELS

### FULL SWIVEL AND STEERABLE 4 INCH DIAMETER FULL SWIVEL/STEERABLE



P/N L-691 Standard 45° spring angle, for 1-1/4" or 1-1/2" flat spring.  
 P/N L-692 Optional 20° spring angle, for 1-1/4" or 1-1/2" flat spring.  
 P/N L-693 10° Angle, for 5/8" round spring.  
 Any Model (Wt. 3 Lbs.) .....  
**\*Note: Requires spacer P/N 06-13609 for use w/ 1.25" spring**

### HEAVY DUTY DOUBLE FORK 6 INCH DIA. FULL SWIVEL / STEERABLE



Locks in steerable mode when aircraft is moved forward. Releases to full swivel when pushed sideways or backwards, or when maneuvering on the ground using brakes. Tire is solid soft rubber, with sealed ball bearings.  
**P/N 6131** - Std. - 45° Angle for 1-1/4 or 1-1/2 flat spring.  
**P/N 6133** - Optional-20° Angle for 1-1/4 or 1-1/2 flat spring.  
**P/N 6135** - 10° Angle for 5/8 round spring.  
 Any Model (wt. 6lbs.).....  
**\*\*Note: Requires spacer P/N 06-13609 for use with 1-1/4" spring.**

### 6 INCH DIAMETER FULL SWIVEL/STEERABLE



P/N L-694 Standard 45° spring angle, for 1-1/4" or 1-1/2" flat spring.  
 P/N L-695 Optional 20° spring angle, for 1-1/4" or 1-1/2" flat spring.  
 P/N L-696 10° Angle, for 5/8" round spring.  
 Any Model (Wt. 5 Lbs.).....  
**\*Note: Requires spacer P/N 06-13609 for use w/ 1.25" spring.**

### REPLACEMENT WHEELS FOR HOMEBUILDER'S SPECIAL TAILWHEELS

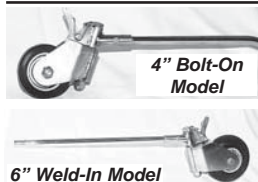


Replacement wheels with tires & bearings for the Homebuilder's special tailwheels shown above.  
 4X1.5X5/8 BB Natural..... P/N 06-03500.....  
 4X1.5X3/8 BB Natural..... P/N 06-00067.....  
 6X2.125X5/8 Balloon\*..... P/N 06-03600.....  
 \*This is a solid Tire

### LONGLIFE SEALED BALL BEARINGS

These high quality bearings are superior to standard bearings furnished with homebuilder tailwheels ..... P/N 06-00060.....

## RAVEN LOCKING TAILWHEELS



We have 5 versions of Raven locking tailwheel assemblies. They come with polished stainless springs plus any and all brackets and tubing to mount the tailwheel. 4" models are for aircraft like the Pitts S-1 etc. and are good up to 1250 lbs gross weight. The tailwheel assembly is 21" long and weighs 5lbs. 6" models are for aircraft like the Christen Eagle Pitts S-2 etc. and are good up to 1900 lbs gross weight. The tailwheel assembly is 24" long and weighs 7lbs.  
 4" weld in tube model, straight spring with tube to weld into fuse  
 P/N 06-00121 .....  
 4" bolt on model, angled spring with 3/8" hole and bracket for tail post  
 P/N 06-00122 .....  
 6" weld in tube model, straight spring with tube to weld into fuse  
 P/N 06-00123 .....  
 6" bolt on model, angled spring with 3/8" hole and bracket for tail post  
 P/N 06-00124 .....  
 4" direct replacement for RV aircraft with 7/8" ID fuse tube( 23", 7lbs.  
 P/N 06-00125 .....

## BERINGER TAILWHEEL



Tail wheel, fully CNC machined, static load: 330Lbs, for tyre 200x50 • Aluminum anodized Tailwheel • for 200x50 or 200x65 tube type tyre • In 2 parts easily removable, with ball bearings • Alloy: 2017 (AU4G) machined from billet on CNC • For axis 08 mm (0.32") • Weight: 9oz. P/N 06-00957.....

## REPLACEMENT TAILWHEEL FOR VAN'S TAILWHEEL ASSEMBLY



This is a replacement tail wheel for the Van's tail wheel assembly. The hub is made from 6061-t6 aircraft aluminum with a tire molded from 65 durometer SBR rubber. The design includes precision sealed bearings. 5-1/2" Diameter X 1-1/2" Thick  
 P/N 06-01284.....

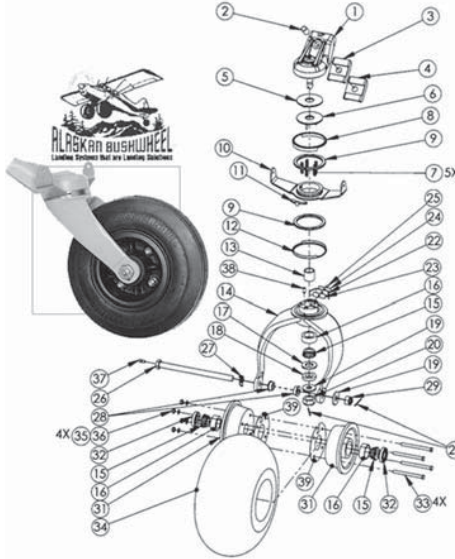


# TAILWHEELS

## ALASKAN BUSHWHEEL INC. 3200 TAILWHEEL ASSEMBLY

The Alaskan Bushwheel Tailwheel Assembly is an FAA-PMA (PMA # PQ1557NM, Supplement 9) replacement part for the Scott 3200 assembly and parts contained therein, includes Heavy Duty Steering Arm. One Year Warranty.

- ABI-3200 Standard Tailwheel Assembly(3214 Standard Arm) ..... P/N 06-00836
- ABI-3224A Standard Tailwheel Assembly(3214T Heavy Duty Arm) ..... P/N 06-00722
- ABI-3200B Tailwheel Tundra Assembly ..... P/N 06-00723
- ABI-800613-00 Pawnee 2-bolt Tailwheel Head ..... P/N 06-00820
- ABI-2600A 4" wheel halves with 2.80x2.50x4 tire & tube mounted and ready to go ..... P/N 06-01190



#	Part No.	Description	Part No.	Price	#	Part No.	Description	Part No.	Price
1	ABI-3216-00	Brackett Assy.	06-00724	.	17	ABI-1863	Grease Retainer	06-00746	.
2	ABI-3241-3S***	Spacer	06-00725	.	18	ABI-2504-1	Spacer	06-00752	.
3	ABI-3243-02****	Leaf Spring Adapter 1-3/4" to 1-1/4"	06-00810	.	19	AN960-816	Washer	AN960-816	.
4	ABI-3243-01****	Leaf Spring Adapter 1-3/4" to 1-1/2"	06-00811	.	20	AN320-8	Shear Nut	AN320-8	.
5	ABI-3207-00	Fiber Thrust Washer	06-00726	.	21	MS24665-283	Cotter Pin	MS24665-283	.
6	ABI-3235-00	Thrust Plate Assy.	06-00727	.	22	ABI-3222-00	Compression Spring	06-00737	.
7	ABI-3233-00	Compression Spring	06-00728	.	23	ABI-3258-00	Spacer	06-00738	.
8	ABI-3256-02	Hvy-Dty Dust Cap, Upper	06-00729	.	24	ABI-3258-01	Spacer	06-00739	.
	ABI-3255-02	Std. Dust Cap, Upper	06-00814	.	25	ABI-3257-00	Pin	06-00740	.
9	ABI-3206-00	Thrust Washer	06-00730	.	26	ABI-872*	Axle	06-00741	.
10	ABI-3214T	Hvy-Dty Standard steering arm assy	06-00731	.	26A	ABI-3236**	Axle	---	---
10A	ABI-3214-00	Standard Standard steering arm assy	06-00812	.	27	ABI-3225-00	Tab Lock Washer	06-00742	.
11	ABI-3219-00	PAWL	06-00732	.	28	ABI-3227-00	Spacer	06-00743	.
12	ABI-3256-1	Hevt-Duty Dust Cap, Lower	06-01264	.	29	33475-008	Castle Nut	AN310-8	.
	ABI-3256-1	Std. Duty Dust Cap, Lower	06-00733	.	30	ABI-S2*	Rim Spacer	06-00744	.
	ABI-3235-01	Std. Duty Dust Cap, upper	06-00813	.	31	ABI-3244-00	Wheel Half	06-00745	.
13	ABI-3205-00	Bushing	06-00734	.	32	ABI-7024	Bearing Race Seal	06-00746	.
14	ABI-F1*	Tailwheel Fork	06-00735	CALL	33	AN4-34A*	Wheel Bolt	AN4-34A	.
14A	ABI-3224**	Tailwheel fork Std.	06-00736	.	33A	AN4-7A**	Wheel Bolt	AN4-7A	.
15	A4050	Cone Bearing	13286	.	34	1154R*	Tire	---	---
16	A4138	Bearing Race	13287	.	34A	280 x 2.50 x 4**	Tire	06-00748	.
					35	33478-202	Self Locking Nut	33478-202	.
					36	1/4" Washer	Flat Washer	AN960-416	.
					37	T7201	Zerk Fitting	06-00753	.
					38	ABI-232-046	Dowel Pin	06-00749	.
					39	ABI-2602**	Gasket	06-00750	.

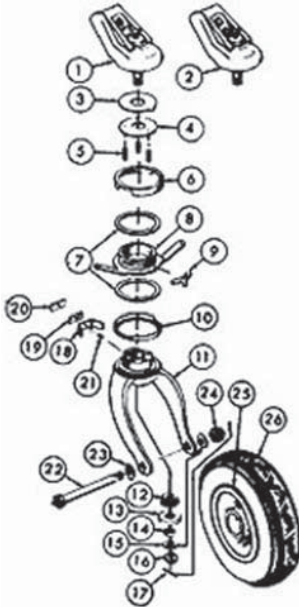
\* Parts not included in ABI-3200/ABI-3224A Assembly

\*\* Parts not included in ABI-3200B Assembly  
Parts in red are not sold individually.

\*\*\* Parts not included in assemblies.

## REPLACEMENT PARTS FOR SCOTT 3200 TAILWHEEL

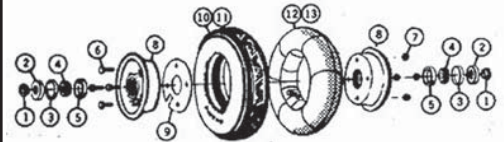
The Scott Model 3200 tailwheel, with 8" pneumatic tire, is designed to give years of trouble-free service. The swivel mechanism is sealed to keep out water, sand and mud. Grease fittings are provided for lubrication. Bracket fits 1-3/4" wide tailwheel leaf spring. Wt. 7-1/2 lbs. Attaching hardware not furnished.



It No.	Part No.	r p t o	No. R	Pr	Ea.
1	3216	Bracket Ass'y	1	.	.
2	800613	Bracket Ass'y*	1	.	.
3	3207	Washer, Thrust	1	.	.
4	3234	Thrust Plate Ass'y	1	.	.
5	3233	Spring, Compression	5	.	.
6	3235-2	Dust Cap	1	.	.
7	3206	Washer, Thrust	2	.	.
8	3214	Arm Assembly	1	.	.
9	3219	Pawl	1	.	.
10	3235-1	Dust Cap	1	.	.
11	3224	Fork Ass'y	1	.	.
12	13286	Cone Bearing	1	.	.
13	1863	Retainer, Grease	1	.	.
14	2504-1	Spacer	1	.	.
15	18107	Washer, AN960-816	2	.	.
16	18450	Nut, Shear, AN320-8	1	.	.
17	18482	Pin, Cotter	2	.	.
18	3222	Spring	1	.	.
19	3258	Spacer	1	.	.
20	3258-1	Spacer	1	.	.
21	3257	Pin	1	.	.
22	3236	Axle Ass'y	1	.	.
23	3225	Washer, Lock	1	.	.
24	18443	Nut, Castle, AN310-8	1	.	.
25	3244	Wheel Ass'y	1	----	----
26	2600	Tire & Wheel Ass'y	1	----	----

## SCOTT MODEL 2600 8-INCH PNEUMATIC TIRE

The Model 2600 8" pneumatic tire and wheel assembly is used on the 3200, 3250, 3400 and 3425 Series tailwheel assemblies. The Model 3245-1 10" pneumatic tire and wheel assembly is used on the 3425 & 3450 Series tailwheel assemblies. Total Wt. 3 lbs. 13 oz.



It No.	Part No.	r p t o	8" Assy P/N 2600	10" Assy P/N 3245-1	Pr Ea h
1	3227	Spacer	2	2	.
2	1863	Retainer, Grease	2	2	.
3	1862	Spacer	2	2	.
4	13286	Bearing Cone (A-4050)	2	2	.
5	13287	Bearing Cup (A-4138)	2	2	.
6	18438	Bolt	4	4	.
7	33478-202	Nut, Self Locking	4	4	.
8	2598	Hub	2	2	---
9	2602	Gasket	1	1	.
10	3228	8" Tire	1		.
11	06-08100	10" Tire		1	.
12	3223	8" Tube	1		.
13	3247	10" Tube		1	.

## SCOTT LEAF SPRING SPACERS AND SPRING KITS

- 3241-3S - Spacer Only ..... P/N 06-00406
- 3243-2 - Spacer Only ..... P/N 06-00407
- 3241-1S - Adapter Kit - Converts 1-3/4" 3216 (1 3/4") bracket to 1-1/2" width. .... P/N 06-00408
- 3239 - Heavy Duty Tension Spring Kit ..... P/N 06-00008
- 3243-01 - Converts 1-3/4" Bracket to 1-1/4" Bracket. Used on 3200 Tailwheel ..... P/N 06-00421

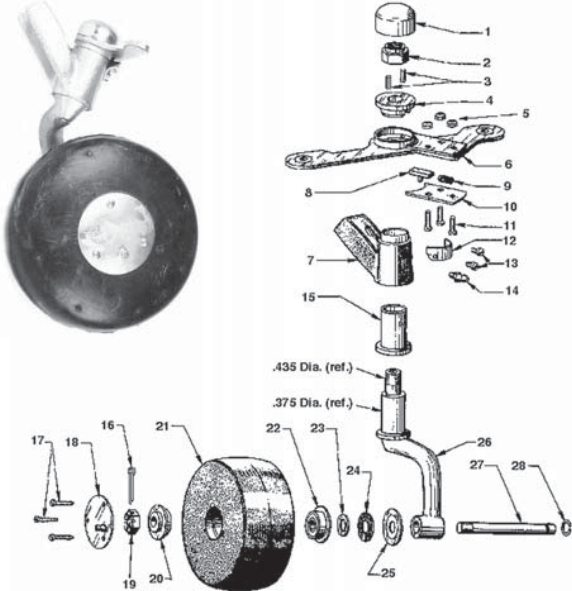


# TAILWHEELS

## MAULE MODEL SFSA SOLID TAILWHEELS

The SFSA tailwheel assembly is of the same type construction as the SFS-P8A unit except for the tire, which is a 6.50 x 2.50 soft rubber solid tire. Spring connector kit not furnished with this model. FAA-approved. Wt. 6 lbs.

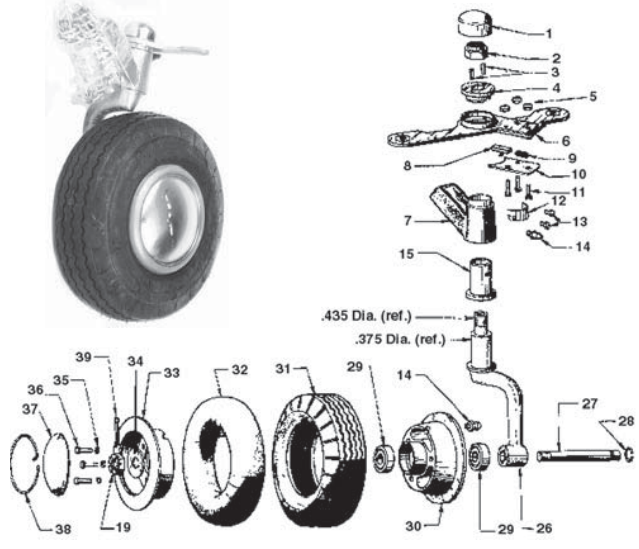
- SFSA-1-4, for 1-1/4" Spring ..... P/N 06-16710.....
- SFSA-1-2, for 1-1/2" Spring ..... P/N 06-16720.....
- Replacement Tire & Bearings ..... P/N TW-23A.....



## MAULE MODEL SFS-P8A PNEUMATIC TAILWHEELS

An inexpensive 8" pneumatic tailwheel assembly which is steerable and full swiveling, with new improved single arm shimmy-free fork. All working parts heat treated. FAA approved. Wt. 7 lbs.

- Maule Tailwheel #SFS-P8A-1-4\* ..... P/N 06-16760.....
  - Maule Tailwheel #SFS-P8A-1-2\*\* ..... P/N 06-16740.....
  - McCreary Tire 2.80/2.50-4 4 Ply ..... P/N 06-08000.....
  - McCreary Tube 280 X 250 X 4 ..... P/N 06-08101.....
- \* - For 1-3/4" Leafspring      \*\* - For 1-1/2" Leafspring



LG

## MAULE P8B TUNDRA TAILWHEEL

A new tailwheel with 8" pneumatic tire designed and engineered to meet the toughest conditions on all types of airports and landing fields.

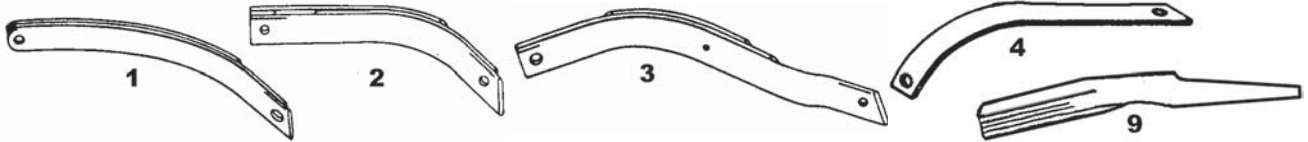
- SFS-P8B-1-4 ..... For 1-1/4" Leaf Spring Width ..... P/N 06-16750.....
- SFS-P8B-1-2 ..... For 1-1/2" Leaf Spring Width ..... P/N 06-16760.....
- SFS-P8B-3-4 ..... For 1-3/4" Leaf Spring Width ..... P/N 06-16770.....

## MAULE TAILWHEEL PARTS LIST

#	Part Name	Old Style SFS-P8 Part Number	New Style SFS-P8A Part Number	Qty	Per Assembly
1	Cover Cap	TW-18 (1-1/4")	TW-63A (1-3/8")	1	.
2	Nut	AN364-720A or AN365-720	AN364-720A or AN365-720	1	.
3	Lock Ring Pin	TW-17	TW-60AB	1/2	.
4	Lock Ring	TW-16	TW-57	1	.
5	Nut	AN364-440A	AN364-440A	3	.
6	Steering Arm Assembly*	TW-15 (TW-13 & TW-16 are included in this Assembly)	TW-15A	1	.
7	Bracket Assy., 1-1/4 In	06-16101	06-16201	1	.
	Bracket Assy., 1-1/2 In	06-16102	06-16202	1	.
8	Lock Pin	TW-13	TW-13	1	.
9	Steering Arm Spring	TW-14	TW-14	1	.
10	Lock Cover Plate	TW-12	TW-12	1	.
11	Screw	MS35206-217	MS35206-217	3	.
12	Cam	TW-10	TW-10	1	.
13	Screw	AN501-A10-4	AN501-A10-4	2	.
		AN520-10-4	AN520-10-4		
14	Zerk Fitting	TW-7-A14	TW-7-A14	1	.
15	Oilite Bearing	TW-7 (3/4" I.D.)	TW-59A (7/8" I.D.)	1	.
<b>Items 16 through 25 are for the solid rubber tire assembly only.</b>					
16	Cotter Pin	AN380-3-3	AN380-3-3	1	.
17	Screw	TW-A18	TW-A18	3	.
18	Hub Cap	TW-27	TW-27	1	.
19	Axle Nut	AN320-8	AN320-8	1	.
20	Bearing	TW-3	TW-3/A15	1	.
21	Tire-solid, no bearings	TW-23	TW-23	1	.
	Tire-solid, with bearings	TW-23A	TW-23A	1	.
22	Bearing (with washer)	TW-A15	TW-A15	1	.
23	Washer	TW-28	TW-28	1	.
24	Felt Seal	TW-26	TW-26	1	.

#	Part Name	Old Style SFS-P8 Part Number	New Style SFS-P8A Part Number	Qty	Per Assembly
25	Retainer Washer Fork (with axle)	TW-64	TW-64	1	.
	Pneumatic	06-00092	TW-58A	1	.
	Solid Rubber	06-00093	TW-61A-1	1	.
27	Axle	TW-5	TW-5	1	.
28	Axle Sircilip Ring	TW-6	TW-6	1	.
29	Bearing	TW-A7	TW-A7	2	.
30	Inboard Wheelhalf, with bearings	TW-30	TW-30	1	.
31	Tire, 8-inch			1	-----
32	Tube			1	-----
33	Outboard Wheelhalf	TW-31	TW-31	1	.
34	Washer	TW-A6	TW-A6	1	.
35	Lock Washer	AN935-516	AN935-516	3	.
36	Bolt	TW-A12	TW-A12	3	.
37	Hub Cap	TW-32	TW-32	1	.
38	Hub Cap Sircilip Ring	TW-33	TW-33	1	.
39	Cotter Pin	AN380-3-3	AN380-3-3	1	.
<b>Items 40 through 44 are used on the "Old" style &amp; Pneumatic tailwheel that have a shimmy dampener.</b>					
40	Adjusting Screw	TW-40		1	.
41	Dampener Spring	TW-41		1	.
42	Friction Block	TW-42		1	.
43	Hex Housing	TW-43		1	.
44	Bracket Assembly, 1-1/4 inch drilled	TW-44-1-4		1	-----
	Bracket Assembly, 1-1/2 inch drilled	TW-44-1-21	-----		-----

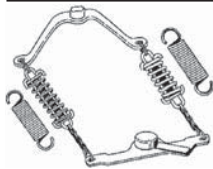
# TAILWHEELS



## STEEL TAILWHEEL LEAF SPRINGS

St No.	Spr W th	Hole Dia. Fu a E	Hole Dia. Ta h E	ta B t Bot C t r	Or a App at o	Wt. L .	No. o Spr	Part No.	Pr
1	1-1/4"	7/16"	3/8"	12"	Piper J3, PA11, PA11, PA12, PA14, PA15, PA17	3-1/8	3	06-14200	.
2	1-1/2"	3/8"	3/8"	10"	T-Craft BC-12D	2-3/4	3	06-14300	.
3	1-1/2"	3/8"	7/16"	15"	Aeronca 7AC, 11AC	3-1/2	3	06-14400	.
4	1-1/2"	3/8"	3/8"	15"	Homebuilts	1-3/4	1	06-14500	.
5	1-1/4"	5/16"	3/8"	11-3/4"	Luscombe	3-1/2	4	06-14600	.
6	1-1/4"		Main Leaf Only	11-3/4"	Luscombe	1-1/2	1	06-14700	.
7*	1-1/2"	5/8"	7/16"	13-1/8"	Cessna 120-140	4	4	06-14800*	.
8	1-1/2"		Main Leaf Only	13-1/8"	Cessna 120-140	1-1/2	1	06-14900	.
9	1-1/2"	5/8"	7/16"	13"	Cessna 170	5	5	06-15000	.
10	1-1/2"		Main Leaf Only	13"	Cessna 170	1-3/4	1	06-15100	.

DISCOUNTS LESS 10% ON 6, 15% ON 10 (ASSORTED) \*P/N 06-14800 has two bends



### MAULE ANTI-SHIMMY CONNECTOR SPRING KITS

A high and low frequency spring is used to upset the natural frequency of the tailwheel. The lighter spring is used on the left side. Compression Type Kit  
P/N 06-15150.....



### TENSION TYPE CONNECTOR SPRING KITS

Kit consists of two tension type springs, two chains and two connector links.  
Lightweight Spring Kit Scott .....P/N 2151 .....Ea .  
Connector Links.....P/N 06-15400 .....Ea .  
Chain .....P/N 06-15500 .....Ft .



### COMPRESSION TYPE CONNECTOR SPRING KIT

Replace conventional springs with new compression type. Original tension type springs keep rudder post under continuous tension which wears the hinges. Compression type springs keep rudder neutral - no tension on post. Assures more effective steering action.  
Set of 2 stainless steel springs, (2) 1' chains, 4 connector clips: .....P/N 06-15600 .....Ea .  
Springs Only .....P/N 06-15700 .....Ea .  
Connector Clips .....P/N 06-15400 .....Ea .  
Chain .....P/N 06-15500 .....JFt

### RU DDER ARMS



**SCOTT** - Cast aluminum brackets with reinforced chain mounting holes. Originally used on Piper J-3, J-4, J-5, PA-11, PA-18, L-21B. 3/4" dia. post between mounting holes.  
Scott..... P/N 1140.....



**HOMEBUILDERS MODEL** - Same style as Scott model. 3/4" dia. post and 3/4" arm (width)  
P/N 06-15900.....



**RU DDER ARM 1" SHANK** - Originally designed for J-3 through PA-18 series, but adapts nicely to most homebuilts. Code 1  
P/N 06-01045.....



SOLID



PNEUMATIC

### MATCO TAILWHEELS

Matco tailwheels use a fiberglass reinforced nylon wheel with an operating load of 450 lbs. It takes over 5000 lbs to fail the wheel and it will hold up in the most rigorous conditions. Can be used with 1-.25" or 1.5" leaf spring. These tailwheels are fully steerable, full swivel, and are available with a 6" hard rubber solid tire or with 8" Shin pneumatic tire and tube for heavier aircraft. Tailwheel construction is anodized aluminum. Wt: 5 lbs.  
Matco solid rubber tire tailwheel assy

- P/N 06-01615.....
- Replacement Tire (solid rubber) for T-6. ....P/N 06-00004.....
- Matco 6" Pneumatic the tailwheel assy. ....P/N 06-00831.....
- Replacement 6" Pneumatic Tire Tube. ....P/N 06-00832.....
- Matco T8" full swiveling pneumatic tire tailwheel assy. ....P/N 06-01620.....
- Matco T8" Replacement Wheel.....P/N 06-00565.....
- McCreary Replacement 8" Tire 2.80/2.50-4 4PLY  
P/N 06-08000.....
- McCreary Replacement Tube 8" 280 X 250 X 4  
P/N 06-08101.....

### TAILWHEEL TIRES



**6X2 AERO CLASSIC SOLID TIRE** - Used on Scott 2000, Lang D-501A Tailwheels. Replaces Goodyear 6x2 tire. . P/N 06-01044.....

**6X2 GENERAL SOLID TIRE** - A flexible rubber tire with four knobs on center hole. This is Scott P/N 1879 used on Scott Model 2000 tailwheels and some Scott 3-24B tailwheels. Also used on Lang D-501A tailwheel. Replaces Goodyear 6x2 (11 knobs) solid tailwheel tire..... P/N 06-15800.....

**6.50 X 2.50 SOLID TIRE** - Maule P/N 23 for Model SFSA tailwheels.  
Tire Only.....P/N 06-00409.....  
Tire w/ Bearings ..... P/N 06-00410.....

**2.80/2.50 X4 MCCREARY PNEUMATIC TIRE** - Used on Scott Model 2600 8" wheel assembly.  
Tire .....P/N 06-08000.....  
Tube .....P/N 06-08101.....

**2.80/2.50 X4 AZUSA TIRE**  
Tire .....P/N 06-01287.....  
Tube .....P/N 06-01288.....

**10 X 3.50 X 4 MCCREARY PNEUMATIC TIRE** - Used on Scott Model 3450 tailwheel and Scott Model 3245-1 10" wheel assembly.  
Tire .....P/N 06-08100.....  
Tube .....P/N 06-08102.....

**400 X 4 AERO CLASSIC** - used on Grove Model 49-1A; Tire: 11.5" Dia. Looks like scaled down 500x5 tire.  
Tire .....P/N 06-00844.....  
Tube .....P/N 06-08102.....

**400X6 AERO CLASSIC** - The New Light Sport Tire, 400-6 6 Ply with a Deep Aircraft Type Tread.  
Tire .....P/N 06-00944.....  
Tube .....P/N 06-00945.....

LG

# LANDING GEAR

## TRICKAIR AIRCRAFT SKIS

Trick Air has developed simple and reliable light aircraft skis of fiberglass composite construction which are aerodynamic and easy to attach and detach from your plane. So easy, in fact, they attach or detach in less than half an hour!

These skis are made in the USA using the latest environmentally friendly technique in fiberglass called closed molding. This is a new "green" process of manufacturing the product. The 3000, 2250 and 1500 series skis have been static tested to exceed the requirements of TSO-C28 and have been TSO approved. EASY TO INSTALL - First time installation of hardware on the plane takes approximately 8 hours. After this initial Installation, it only takes

15 MINUTES PER SKI to install or remove the skis from the airplane. Skis are available in a white, sandable gray, Cub yellow, and Torch red finish.

SKIS			
S r	Su p o	Part No.	Pr
3000 series	Strut Suspension	05-04373	.
3000-A series	Spring Gear Suspension	05-04374	.
2250 series	Strut Suspension	05-04375	.
2250-A series	Spring Gear Suspension	05-04376	.
1500 series	Strut Suspension	05-04377	.
1500-A series	Spring Gear Suspension	05-04378	.
Tail Ski		05-04379	.
GRAVEL GUARDS			
S r	Su p o	Part No.	Pr
3000 Series	Strut Suspension	05-04380	.
2250 Series	Spring Gear Suspension	05-04381	.
1500 Series	Strut Suspension	05-04382	.

### APPROVALS

The 3000 Series are STC approved for the following:  
 Oleo Strut Maule Models Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-210C, M-5-220C, M-5-235C, M-5-210TC, M-6-235, M-7-235, MX-7-235, M-4-180V, M-5-180C, M-5-200, M-5-210C, M-6-180, M-7-235A, M-7-235B, MX-7-160, MX-7-180, MX-7-180A, MX-7-180B  
**Maule Spring Gear Models:**  
 MX-7-180AC, MX-7-180C, MX-7-160C, M-7-235C, M-8-235

## FULL LOTUS FLOATS



Full Lotus Manufacturing develops and manufactures inflatable floats for fixed wing aircraft and helicopters. They have extensive knowledge in fabric structural engineering and manufacturing, lightweight air retention membrane technology, and rotational molding.

PLEASE VISIT [WWW.AIRCRAFTSPRUCE.COM](http://WWW.AIRCRAFTSPRUCE.COM) FOR A COMPLETE LISTING OF LOTUS FLOATS AND PRICING

## TOW PIN FOR BEECHCRAFT FAA/PMA APPROVE



**Installation Eligibility:**  
**Debonair** 35-A33, 35-B33, 35-33, E33, F33  
**Bonanza:** G33, 35-C33A, E33A, F33A, F33C, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC

**Baron:** 20-21-3 95-55, 95-55, 95-B55, 59-C55, D55, E55, 58, 56TC, A56TC, 58TC, 58P  
 RAPCO Tow Pin..... P/N 05-01625.....

## REAR RU ER PE AL KIT



These were designed especially for RV4's and Rockets but can be used on any aircraft with rudder cables that are installed down the side skins. The pedals are 6" tall and 3-1/2" wide, 1/2" diameter 6061 anodized aluminum bar. The kit includes; pedals, floor mounting brackets, cable clamps and chains. Pedals will fold out of the way when not in use.

P/N 05-04372 .....

## BERINGER WHEEL COVER



Wheel cover made of aluminum red anodized, fully CNC machined and laser engraved. Protect external bearing and axle nut. Fixed on rim with O-ring.

For Beringer 5" wheel.....P/N 06-00956 .....

For Beringer 6" wheel.....P/N 06-01121 .....



## BERINGER SPARE CLIPS

Stainless steel clips between wheel rim and disc. Includes: 10 left and 10 right (set for 1 wheel), procedure. Set of 20.

P/N 06-01111 .....



## BERINGER WHEEL O-RINGS

These O-rings need to be replaced at each tire changing. Includes: 2 large O-rings and 1 small O-ring.

For Beringer 5" wheel ..... P/N 06-01112 .....

For Beringer 6" wheel ..... P/N 06-01113 .....



## TIRE TALC

Eases installation of tubes in tires. Size: 13oz.

DISCOUNT: LESS 15% ON 12  
 P/N 17-250 .....

## BERINGER TIRE CHANGING TOOL



Specific tire change tool for Beringer wheels with conical aluminum spacer to insert tire on wheel half. Plywood flanges maintain tire while positioning second wheel half with the O-ring. Includes: Plywood flanges, bolts with butterfly nut and conical aluminum spacer  
 Tire change tool for BERINGER 5" wheels ..... P/N 06-01109 .....

Tire change tool for BERINGER 6" wheels ..... P/N 06-01110 .....

## NITROGEN TIRE INFLATION SYSTEM 20CU, 40CU NITROGEN ACCESSORY KIT NOT FOR STRUT USE



GENTEC® Nitrogen aircraft tire inflation systems allow for easy, cost effective filling of General Aviation aircraft tires with pure Nitrogen. Due to the complex nature of construction and the severe operating conditions of aircraft tires, Michelin and other leading tire manufacturers recommend the use of Nitrogen as does the FAA. Nitrogen is a totally inert gas that will not support corrosion, oxidation or moisture within aircraft wheels and tires. Nitrogen has a larger gas molecule than air, so low tire pressure due to allowable leakage is minimized. Nitrogen also maintains a lower thermal coefficient, thus minimizing thermal damage and extending tire life versus compressed air. Gentec Nitrogen aircraft tire inflation systems are available in two versions. The GKNAT20-TC is a 20 cubic foot high pressure nitrogen tank (empty) with stand, six foot hose; pressure reducing single stage regulator and tire inflator with resettable dial pressure gauge. The GKNAT40-TC is a 40 cubic foot high pressure nitrogen tank (empty) with stand, six foot hose; pressure reducing single stage regulator and tire inflator with resettable dial pressure gauge. Note: The kit is for someone who may already have a nitrogen cylinder and only needs the accessories.

Visit our website to locate a filling station near you.

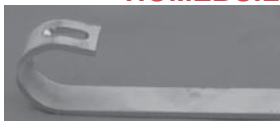
Nitrogen Tire Inflation System 20CU..... P/N 12-01586 .....

Nitrogen Tire Inflation System CU40..... P/N 12-01587 .....

Nitrogen Accessory Kit- (This kit is for someone who may already have a nitrogen cylinder and only needs the accessories)

P/N 12-01588 .....

## HOMEBUILDERS TAIL SKID



The skid is 1" wide and 6" long. It is made out of 3/16" thick 347 Stainless Steel. It will accept up to a 1-3/4" O.D. 3/8" thread tie down ring. This skid will eliminate bending of the tie down ring and damage to the tail. This a must

have for training aircraft. The skid is currently mounted on several experimental and certified aircraft.

P/N 05-04383 .....