



Piper PA30, PA39 Twin Comanche With (L)IO-320 Series (Turbo and Non-Turbo) engine



Basic Kit: Standard Rotating (PA30)

Part Number: E2L00095STP

2 2-Bladed Propellers: HC-E2YL-2BSF/F7663-6Q

2 Polished Spinners: D-5749-P

1 STC Document Set: SA557GL

Basic Kit: Counter Rotating (PA39, or a PA30 with the engine conversion)

Part Number: E2L00095STP*1 / E2L00061STP

2 2-Bladed Propellers: HC-E2YL-2B(L)SF/F(J)7663-6Q

2 Polished Spinners: D-5749-(L)P

1 STC Document Set: SA557GL

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge

Telephone: (937) 778-5726 Option 2 / (800) 942-7767 Option 2
Internet: www.hartzellprop.com

Fax: (937) 778-4215
Email: topprop@hartzellprop.com

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PIPER TWIN COMANCHE

Applicable Models: PA-30, PA-39
*** Note:** Please specify when ordering this kit whether the same or counter-rotating propellers are needed.

Specifications: 70 inch diameter 2-bladed, aluminum hub propeller
2400 hour / 6 year TBO
2 pounds heavier per aircraft
70 inch minimum diameter

Replaces: Hartzell HC-E2YL - 72 inch 2-bladed aluminum hub prop
Diameter reduction allowable to 70 inches
2000 hour / 5 year TBO

Advantages: Current design / new production
Lower noise
Greater ground clearance
More durable spinner assembly



Piper PA32(R)(T)-300 Lance, Cherokee Six With IO-540 series engine



Basic Kit:

Part Number: C3R01150STP

1 3-Bladed Propeller: HC-C3YR-1RF/F7663R*3

1 Composite Spinner: 103629(F1) White OR 103629(F2) Silver

1 STC Document Set: SA1791GL

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PIPER LANCE

Applicable Models: PA-32-300, PA-32R-300, PA-32RT-300

Note: Upon ordering, please advise if the aircraft has a cowling modification. (May require a different spinner)

Specifications: 78 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
71.6 pounds (propeller and spinner)
Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-C2YK-1BF/F8475D-4 - 80 inch dia. 2-bladed prop
Diameter reduction allowable to 78.5 inches
2000 hour / 5 year TBO
55.8 pounds (propeller and spinner)
repetitive eddy current inspection per AD2001-23-08

Hartzell HC-C2YK-1BF/F8475R - 84 inch diameter 2-bladed prop
Diameter reduction allowable to 82.3 inches
2000 hour / 5 year TBO
repetitive eddy current inspection per AD2001-23-08

Advantages: Better take-off and climb performance
Dramatically lower noise
Improved appearance
Improved ground clearance, less blade tip erosion
Elimination of AD hub inspection



Piper PA34-200T Seneca II With (L)TSIO-360-E, -EB engine



Basic Kit w/o Electric De-ice:

Part Number: C3F00510STP / C3F00610STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7663-2R
2 Polished Spinners: C-4558-3P
1 STC Document Set: SA1118SO

Kit with Electric De-ice: (Specify when replacing 2 bladed propellers)

Part Number: C3F00511STP / C3F00611STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7663-2R
2 Polished Spinners: C-4558-3P
1 Airframe De-ice Kit: 102600-3
1 STC Document Set: SA1118SO

Kit with Electric De-ice: (Specify when replacing 3 bladed propellers)

Part Number: C3F00511STP / C3F00611STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7663-2R
2 Polished Spinners: C-4558-3P
1 Airframe De-ice Kit: 102600-4
1 STC Document Set: SA1118SO

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge



PIPER SENECA II

Applicable Models: PA-34-200T

Specifications: 76 inch diameter 3-bladed aluminum hub propeller
 2400 hour / 6 year TBO
 +32 pounds over 2-bladed Hartzells (propeller and spinner)
 -5.2 pounds from 3-bladed McCauleys (propeller and spinner)
 Diameter reduction allowable to 75 inches

Replaces: Hartzell BHC-C2YF-2C(L)UF/F(J)C8459-8R - 76 in dia. 2-bld prop
 Diameter reduction allowable to 75 inches
 2000 hour / 5 year TBO
 Placard - "Avoid cont. ops. btwn 2000-2200 rpm above 32".
 Placard - "Avoid grd ops. cross/tail wind > 10 kts 1700-2100 rpm"

McCauley C502 / C503 - 76 inch diameter 3-bladed props
 Diameter reduction allowable to 76 inches
 2000 hour / 6 year TBO

Advantages:

- vs. 2-bladed Hartzell
 - Better take-off and climb performance
 - Improved appearance
 - Removes placards
- vs. 3-bladed McCauley
 - Less expensive
 - Longer TBO



Piper PA34-220T Seneca III With (L)TSIO-360-KB engine



Basic Kit w/o Electric De-ice:

Part Number: C3F00550STP / C3F00650STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7453
2 Polished Spinners: C-4558-3P
1 STC Document Set: SA649GL

Kit with Electric De-ice: (Specify when replacing 2 bladed propellers)

Part Number: C3F00551STP / C3F00651STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7453
2 Polished Spinners: C-4558-3P
1 Airframe De-ice Kit: 102600-3
1 STC Document Set: SA649GL

Kit with Electric De-ice: (Specify when replacing 3 bladed propellers)

Part Number: C3F00551STP / C3F00651STP
2 3-Bladed Propellers: PHC-C3YF-2(L)KUF/F(J)C7453
2 Polished Spinners: C-4558-3P
1 Airframe De-ice Kit: 102600-4
1 STC Document Set: SA649GL

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
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Installation and Dynamic Balancing available at an additional charge



PIPER SENECA III

Applicable Models: PA-34-220T. Also approved on PA-34-200T equipped with (L)TSIO-360-KB engines.

Specifications: 76 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
+50 pounds over 2-bladed Hartzells (propeller and spinner)
+19.5 pounds over 3-bladed McCauleys (propeller and spinner)
Diameter reduction allowable to 75 inches

Replaces: Hartzell BHC-C2YF-2C(L)UF/F(J)C8459-8R-76 in dia. 2-bld prop
Diameter reduction allowable to 75 inches
2000 hour / 5 year TBO
Placard - "Avoid cont. ops. btwn 2000-2200 rpm above 32".
Placard - "Avoid ground ops. cross/tail wind > 10 kts 1700-2100 rpm"

McCauley C508 / C509 - 76 inch diameter 3-bladed props
Diameter reduction allowable to 76 inches
2000 hour / 6 year TBO

Advantages:

- vs. 2-bladed Hartzell
 - Better take-off and climb performance
 - Improved appearance
 - Removes placards
- vs. 3-bladed McCauley
 - Less expensive
 - Longer TBO



Piper PA28R-180, 200, 201 Arrow With IO-360-C1C(6), -B1E, -C1C engine



Basic Kit: (180 HP engine)

Part Number: C3R00021STP*2

1 3-Bladed Propeller: HC-C3YR-1RF/F7282

1 Composite Spinner: 103629(F1) White OR 103629(F2) Silver

1 STC Document Set: SA4528NM

Basic Kit: (200 HP engine)

Part Number: C3R00022STP*1

1 3-Bladed Propeller: HC-C3YR-1RF/F7282

1 Composite Spinner: 103629(F1) White OR 103629(F2) Silver

1 STC Document Set: SA4528NM

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PIPER ARROW

Applicable Models: PA-28R-180 (180 hp)
PA-28R-200, PA-28R-201, PA-28RT-201 (200 hp)

Specifications: 74 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
71 pounds (propeller and spinner)
Diameter reduction allowable to 73 inches
Placard - "Avoid cont. ops. below 15" btwn. 1950 and 2350 rpm"

Replaces: Hartzell HC-C2YK-1BF/F7666A-2 - 74 inch dia. 2-bladed prop
Diameter reduction allowable to 72.5 inches
2000 hour / 5 year TBO
57 pounds (propeller and spinner)
Placard - "Avoid cont. ops. between 2100 and 2350 rpm."

McCauley C213 - 74 inch diameter 2-bladed prop
Diameter reduction allowable to 73 inches
2000 hour / 6 year TBO
54.3 pounds (propeller and spinner)
Placard - "Avoid cont. ops. below 15" btwn 1500 and 1950 rpm."

Advantages: Better take-off and climb performance
Longer TBO than McCauley's
Lower noise
Improved appearance
Less restrictive placards



Piper PA23, PA23-160 Apache With O-320 engine



Basic Kit:

- Part Number: C2L00106STP
- 2 2-Bladed Propellers: HC-C2YL-2CUF/FC7663-4
- 2 Polished Spinners: 836-29P
- 1 STC Document Set: SA00721CH

Aircraft Serial and registration numbers required when ordering
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Installation and Dynamic Balancing available at an additional charge

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**PIPER APACHE**

Applicable Models: PA-23, PA-23-160

Specifications: 72 inch diameter 2-bladed, aluminum hub propeller
2400 hour / 6 year TBO
63.5 pounds (prop & spinner)
70 inch minimum diameter

Replaces: Hartzell HC-82XL, HC-82VL - 72 inch 2-bladed steel hub prop
66 pounds (prop & spinner)
Diameter reduction allowable to 70 inches
500 hour inspection per AD95-11-08
Blade retention system inspection per AD 97-18-02
2000 hour / 5 year TBO

Advantages: Lighter weight (5 pounds per aircraft)
Current design / new production
Eliminates AD97-18-02 inspection requirements



Piper PA23-250 with serial number 27-2505 and later
with IO-540-C4B5 or TIO-540-C1A engines.



Basic Kit:

Part Number: E2R00123STP

2 2-Bladed Propeller: HC-E2YR-2BTF/FC7693F+1

2 Composite Painted Spinner (Matterhorn White): 103409F1

1 STC Document Set: SA02874CH-D

De-iced Kit:

Part Number: E2R00122 STP (28v) or E2R00124 (14v)

2 2-Bladed Propeller: HC-E2YR-2BTF/FC7693FB+1 (28v) or
HC-E2YR-2BTF/FC7693FB+1[*1 (14v)

2 Composite Painted Spinner (Matterhorn White): 103409F1

1 STC Document Set: SA02874CH-D

Aircraft Serial and registration numbers required when ordering
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PIPER AZTEC

Applicable Models: PA-23-250 Aztec C, D, E, & F with Lycoming IO-540-C4B5 or TIO-540-C1A engines. Serial number 27-2505 through 27-8154029.

Specifications: 77-inch diameter 2-bladed light weight aluminum hub propeller with counter-weighted aluminum "Scimitar" blades / Composite Spinner Assy.
 2400 hour / 6 year TBO
 62.0 pounds
 Diameter reduction allowable to 75.5"

Replaces: 77" Hartzell aluminum non counter-weighted aluminum 2 blade props
 2000 hour / 5 year TBO
 58.0 pounds
 Diameter reduction allowable to 76"

Advantages: Improved cruise speed (2 - 3 knots)
 High reliability counter-weight to feather / oil pressure to low pitch change system
 Swept-tip Scimitar blades for reduced noise
 "Blended Airfoil" technology for maximum all around performance
 Improved appearance
 Maintains propeller de-ice protection
 Longer TBO than original 2-blade

Notes:

Composite "Matterhorn White" poly-urethane painted spinner domes.
 No governor or control changes required.
 Minimal de-ice installation time.



Piper PA24 (180HP) Comanche With O-360 engine



Basic Kit:

Part Number: C2R00027STP

1 2-Bladed Propeller: HC-C2YR-1BF/F7666A-4

1 Composite Spinner: 103585(F1) – white **OR** 103585(F2) – silver

1 STC Document Set: SA00631CH

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.

Prices do not include Ohio State Sales Tax

Installation and Dynamic Balancing available at an additional charge

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PIPER 180 COMANCHE

Applicable Models: PA-24-180

Specifications: 72 inch diameter 2-bladed, aluminum hub propeller
No diameter reduction allowed
2400 hour / 6 year TBO
58 pounds (propeller and spinner)
Placard - "Avoid continuous ops. between 2000 and 2250 RPM."

Replaces: McCauley C14 - 74 inch diameter 2-bladed prop
Diameter reduction allowable to 72 inches
1200 hours / 5 year TBO
63 pounds (prop & spinner)

Hartzell HC-92ZK - 72 inch 2-bladed steel hub prop
66 pounds (prop & spinner)
Diameter reduction allowable to 70.5 inches
500 hour inspection per AD95-11-08
2000 hour / 5 year TBO

Advantages:

- Lighter weight
- Longer TBO
- Current design
- Lowest cost Comanche 180 propeller



Piper PA24-260, 260B Comanche With O-540, IO-540 engine



Basic Kit:

Part Number: C3R00023STP

1 3-Bladed Propeller: HC-C3YR-1RF/F7590

1 Composite Spinner: 103629(F1) White **OR** 103629(F2) Silver

1 STC Document Set: SA288CH

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge

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PIPER 260 COMANCHE

Applicable Models: PA-24-260

Note: Upon ordering, please advise if the aircraft has a cowling modification. (May require a different spinner)

Specifications: 77 inch diameter 3-bladed, **scimitar**, aluminum hub propeller (includes a fixed flap on the trailing edge of each blade that can be used with LoPresti Speed Merchants cowling)
2400 hour / 6 year TBO
74 pounds (propeller and spinner)
Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-C2YK- 77 inch 2-bladed aluminum hub prop
Diameter reduction allowable to 75 inches
2000 hour / 5 year TBO
57 pounds (propeller & spinner)

Advantages:
Better performance
Lower noise
Improved appearance
Longer TBO
Compatible with LoPresti Speed Merchants cowl STC



Piper PA24-260C Comanche With IO-540 engine



Basic Kit:

- Part Number: E3R00019STP
- 1 3-Bladed Propeller: HC-E3YR-1RF/F7590
- 1 Polished Spinner: C-4582-P
- 1 STC Document Set: SA288CH

Aircraft Serial and registration numbers required when ordering
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PIPER 260 COMANCHE

Applicable Models: PA24-260C

Note: Upon ordering, please advise if the aircraft has a cowling modification. (May require a different spinner)

Specifications: 77 inch diameter 3-bladed, **scimitar**, aluminum hub propeller
2400 hour / 6 year TBO
83.3 pounds (propeller and spinner)
Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-E2YK- 77 inch 2-bladed aluminum hub prop
Diameter reduction allowable to 75 inches
2000 hour / 5 year TBO
63 pounds (propeller & spinner)

Advantages:
Better performance
Lower noise
Improved appearance
Longer TBO



Piper PA24 (180HP) Comanche Scimitar With O-360 engine



Basic Kit:

Part Number: C2R10704STP

1 2-Bladed Propeller: HC-C2YR-1BFP/F7497

1 Composite Spinner: 103585(F1) – white **OR** 103585(F2) – silver

1 STC Document Set: SA00631CH

Aircraft Serial and registration numbers required when ordering
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PIPER COMANCHE 180

Applicable Models: PA-24

Specifications: 74 inch diameter 2-bladed, aluminum hub "Scimitar" propeller
 Diameter reduction allowed to 72.5 inches
 2400 hour / 6 year TBO
 62 pounds (propeller and spinner)

Replaces: Hartzell 72 inch diameter 2-bladed, aluminum hub propeller
 No diameter reduction allowed
 2400 hour / 6 year TBO
 58 pounds (propeller and spinner)
 Placard - "Avoid continuous ops. between 2000 and 2250 RPM."

McCauley C14 - 74 inch diameter 2-bladed prop
 Diameter reduction allowable to 72 inches
 1200 hours / 5 year TBO
 63 pounds (prop & spinner)
 Placard - "Avoid continuous operations while descending between 2250 and 2550 RPM."

Hartzell HC-92ZK-8D/8447A-12A - 72 inch 2-bladed steel hub prop
 66 pounds (prop & spinner)
 Diameter reduction allowable to 70.5 inches
 500 hour inspection per AD95-11-08
 2000 hour / 5 year TBO

Advantages: Improved cruise performance (1-4 knots)
 Eliminates RPM limitations and placards
 Longer TBO
 Current design



Piper PA28-235 Cherokee/Pathfinder With O-540-B4B5 engine



Basic Kit:

- Part Number: C3R00047STP
- 1 3-Bladed Propeller: HC-C3YR-1RF/F7693F
- 1 Polished Spinner: C-3535-1P
- 1 STC Document Set: SA01190LA

Aircraft Serial and registration numbers required when ordering
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TOP PROP PERFORMANCE CONVERSIONS



PIPER CHEROKEE 235 (CHEROKEE / PATHFINDER)

Applicable Models: PA-28-235

Specifications: 78 inch diameter 3-bladed, scimitar, aluminum hub propeller
2400 hour / 6 year TBO
77.5 pounds (propeller and spinner)
Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-C2YK-1BF/F8468A-4 - 80 inch dia. 2-bladed prop
NO diameter reduction allowed
2000 hour / 5 year TBO
59 pounds (propeller and spinner)

Advantages: Better take-off and climb performance
Lower noise
Improved appearance
Increased ground clearance
Longer TBO
Improved blade repair limits



Piper PA28-236 Dakota With O-540-J3A5D engine



Basic Kit:

Part Number: F3R00030STP
1 3-Bladed Propeller: HC-F3YR-1ARF/F7693F
1 Polished Spinner: C-3570-P
1 STC Document Set: SA01191LA

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TOP
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PIPER 236 DAKOTA

Applicable Models: PA-28-236

Specifications: 78 inch diameter 3-bladed, scimitar, extended, aluminum hub propeller
 2400 hour / 6 year TBO
 79.2 pounds (propeller and spinner)
 Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-F2YR-1BF/F8468-4R - 80 inch dia. 2-bladed prop
 Diameter reduction allowable to 78 inches
 2000 hour / 5 year TBO
 66 pounds (propeller and spinner)

Advantages: Better take-off and climb performance
 Lower noise
 Improved appearance
 Increased ground clearance
 Longer TBO



Piper PA32-260 Cherokee Six 260 With O-540-E4B5 engine



Basic Kit:

Part Number: C3R00031STP

1 3-Bladed Propeller: HC-C3YR-1RF/F7693F

1 Polished Spinner: C-3535-1P

1 STC Document Set: SA1105CH

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PIPER CHEROKEE SIX 260

Applicable Models: PA-32-260

***Note: Upon ordering, please advise if the aircraft has a cowling modification. (May require a different spinner)**

Specifications: 78 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
77.5 pounds (propeller and spinner)
Diameter reduction allowable to 76 inches

Replaces: Hartzell HC-C2YK-1BF/F8477-2 - 82 inch dia. 2-bladed prop
Diameter reduction allowable to 80.5 inches
2000 hour / 5 year TBO
59.1 pounds (propeller and spinner)

Advantages: Better take-off and climb performance
Lower noise
Improved appearance
Increased ground clearance
Longer TBO



Piper PA32RT-300T Turbo Lance II With TSIO-540 Series engine



Basic Kit:

Part Number: E3R00008STP

1 3-Bladed Propeller: HC-E3YR-1RF/F7673DR-0

1 Polished Spinner: C-3575-P

1 STC Document Set: SA3181NM

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TOP
PROP
PERFORMANCE
CONVERSIONS



PIPER TURBO LANCE

Applicable Models: PA-32RT-300T

Note: Upon ordering, please advise if the aircraft has a cowling modification. (May require a different spinner)

Specifications: 78 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
Diameter reduction allowable to 76 inches
84 pounds (propeller & spinner)
Weight change 20.5 pounds

Replaces: Hartzell HC-E2YR-1BF/F8477-4 - 80 inch dia. 2-bladed prop
Diameter reduction allowable to 78.5 inches
2000 hour / 5 year TBO
63.5 pounds (propeller & spinner)
Repetitive eddy current inspection per AD2001-23-08

Advantages: Better take-off and climb performance
Dramatically lower noise
Improved appearance
Improved ground clearance, less blade tip erosion
Elimination of AD hub inspection
Compatible with Turbo Plus inter-cooler kit (STC SA2935NM)



Piper PA44-180 Seminole with O-360-E1A6D and O-360-A1H6 engines.



Basic Kit:

Part Number: C2R00120STP

Part Number: C2R00155STP

1 each 2-Bladed Propeller: HC-C2YR-2CEUFP/FC7497

1 each 2-Bladed Propeller: HC-C2YR-2CLEUFP/FJC7497

2 Aluminum Spinner Assemblies: D-6974-1P

1 STC Document Set: SA03022CH

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge

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PIPER SEMINOLE

Applicable Models: PA-44-180 Seminole with Lycoming O-360-E1A6D and O-360-A1H6 engines. Turbo-charged Seminoles are NOT eligible for this conversion under this STC.

Specifications: 74-inch diameter 2-bladed aluminum hub propeller with Aluminum, blended airfoil "Scimitar" blades.
2400 hour / 6 year TBO
68.0 lb., Spinner 3.5 lb.
Diameter reduction allowable to 72.5"

Replaces: 74-inch Hartzell aluminum 2 blade props
2000 hour / 5 year TBO
65.0 lb., Spinner 3.8 lb.
Diameter reduction allowable to 72"

Advantages: Improved cruise speed (2 - 5 knots)
Improved climb performance - plus 80 fpm @ 2500 MSL
Improved margins - S.E. climb – plus 50 fpm
- Balked landing climb – plus 60 fpm
Swept-tip Scimitar blades for reduced noise - .9 dB(a) reduction
"Blended Airfoil" technology for maximum all around performance
Improved appearance
Longer TBO than original 2-blade

Notes:

Due to improved power off glide performance and lower decent rate, the FAA Approved Flight Manual Supplement for this STC includes a statement that the published landing distances over a 50 ft obstacle be increased by 10%.



Piper PA46-310P Malibu With TSIO-520-BE engine



Basic Kit: s/n 46-8408038 and up

Part Number: G3F10002STP

- 1 3-Bladed Propeller: PHC-G3YF-1E/7890K**
- 1 Polished Spinner: C-3535-3P**
- 1 Propeller De-ice kit: 7931-5E2707-1**
- 1 Airframe De-ice kit: 7931-5E2707-2**
- 1 Airframe Electrical kit: E7623-1**
- 1 STC Document Set: SA01616CH**

Basic Kit: s/n 46-8408001 through 46-8408037

Part Number: G3F10002STP*1

- 1 3-Bladed Propeller: PHC-G3YF-1E/7890K**
- 1 Polished Spinner: C-3535-3P**
- 1 Propeller De-ice kit: 7931-5E2707-1**
- 1 Airframe De-ice kit: 7931-5E2707-2**
- 1 Airframe Electrical kit: E7623-2**
- 1 STC Document Set: SA01616CH**

Aircraft Serial and registration numbers required when ordering
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PIPER MALIBU

Applicable Models: PA-46-310P

Specifications: 80-inch diameter 3-bladed aluminum hub propeller with composite blades
2400 hour / 6 year TBO
68 pounds (propeller and spinner)

Replaces: Hartzell BHC-C2YF-1BF/F8052K - 80 inch dia. 2-bladed prop
2000 hour / 5 year TBO
59 pounds (propeller and spinner)

Advantages: Better take-off and climb performance
Lower noise
Improved appearance
Smoother operation
Longer TBO

Notes: 1.) Approximately 35 hours of labor are required to install this STC kit. (Approximately 30 hours are required when installed in conjunction with an annual inspection.)

2.) Wire is not included with the kit. The following wire is required:

<u>Wire</u>	<u>Quantity</u>
M22759/43-14	30 ft.
M22759/43-16	12 ft.
M22759/43-20	10 ft.

Supplier for the wire: A.E. Petsche
(770) 381-9802 phone
(770) 381-9882 fax



**Piper PA46-350P Mirage (s/n 4622001-4622200,
4636001 and later); PA46R-350T Matrix
with TIO-540-AE2A engine**



Basic Kit:

- Part Number:** I3R30300STP
- 1 3-Bladed Propeller:** HC-I3Y1R-1N/N7605+2
- 1 Polished Spinner:** D-6750-1P
- 1 STC Document Set:** SA02677CH-D

De-iced Kit:

- Part Number:** I3R30350STP or I3R30350STP*1
 - 1 3-Bladed Propeller:** HC-I3Y1R-1N/N7605K+2
 - 1 Polished Spinner:** D-6750-1P
 - 1 Propeller De-ice kit:** 102960-1
 - 1 Airframe De-ice kit:** 102960-2
 - 1 Airframe Electrical kit:** E7359-1
 - 1 STC Document Set:** SA02677CH-D
- (*1 kit for airplanes already equipped with a Hartzell 3 blade composite propeller. New airframe kits are not required and not included.)

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge



PIPER MIRAGE / MATRIX

Applicable Models: PA-46-350P Mirage
Serial number 4622001 to 4622200, 4636001 and later
PA-46R-350T Matrix

Specifications: 80-inch diameter 3-bladed light weight aluminum hub propeller with
ASC-II™ Advanced Structural Composite blades
2400 hour / 6 year TBO
64.0 pounds (propeller and spinner)

Replaces: Hartzell HC-I2YR-1BF/F8074K - 80 inch dia. 2-bladed prop
2000 hour / 6 year TBO
63.5 pounds (propeller and spinner)

Hartzell HC-I3YR-1E/7890K 80 inch dia. 3 bladed prop.
2400 hour / 6 year TBO
75.4 pounds (propeller and spinner)

Advantages: Improved cruise speed (2 knots over POH)
Lighter weight than existing 3-blade
Better take-off and climb performance than 2-blade
Lower noise and improved cooling
Improved appearance
Smoother operation than original 2-blade
Longer TBO than original 2-blade

Notes: Model PA46-350P (s/n 462201 – 4622200 & 4630001 – 4636131) when removing a two blade Hartzell HC-I2YR-1BF/F8074K propeller.

1.) Approximately 40 hours of labor are required to install this STC kit with de-ice. (Approximately 30 hours are required when installed in conjunction with an annual inspection.)

2.) Wire is not included with the kit. The following wire is required:

<u>Wire</u>	<u>Quantity</u>
M22759/7-14	30 ft.
M22759/7-16	2 ft.
M22759/7-18	6 ft.
M22759/7-20	10 ft.

Supplier for the wire: Astro Wire & Cable
(800) 543-5810 phone

3.) Auxiliary cabin heat is interlocked with the propeller de-ice system. (Auxiliary cabin heat is inoperative when propeller heat is turned on).

Note 4 applies to all eligible models:

4.) Installation kits assume that Hartzell HC-I2YR-1BF/F8074K or Hartzell HC-I3YR-1E/7890K propeller was installed per the original type certificate data sheet or STC SA1340CH. If any other propeller has been installed, the aircraft must be returned to the original type certified configuration before installing this STC. A 2 – 3 hour installation time should be expected where the Hartzell HC-I3YR-1E/7890K three blade propeller was installed previously.



**Piper PA46-350P Mirage (s/n 4622001-4622200,
4636001 and later); PA46R-350T Matrix
with TIO-540-AE2A engine**



Basic Kit:

- Part Number:** I3R50100STP
- 1 3-Bladed Propeller:** HC-I3Y1R-1N/N7605C+2
- 1 Polished Spinner:** D-6750-1P
- 1 STC Document Set:** SA02677CH-D

De-iced Kit:

- Part Number:** I3R50120STP or I3R50120STP*1
 - 1 3-Bladed Propeller:** HC-I3Y1R-1N/N7605CK+2
 - 1 Polished Spinner:** D-6750-1P
 - 1 Propeller De-ice kit:** 102960-1
 - 1 Airframe De-ice kit:** 102960-2
 - 1 Airframe Electrical kit:** E7359-1
 - 1 STC Document Set:** SA02677CH-D
- (*1 kit for airplanes already equipped with a Hartzell 3 blade composite propeller. New airframe kits are not required and not included.)

Aircraft Serial and registration numbers required when ordering
All Prices FOB Hartzell Propeller Inc.
Prices do not include Ohio State Sales Tax
Installation and Dynamic Balancing available at an additional charge



PIPER MIRAGE / MATRIX

Applicable Models: PA-46-350P Mirage
 Serial number 4622001 to 4622200, 4636001 and later
 PA-46R-350T Matrix

Specifications: 80-inch diameter 3-bladed light weight aluminum hub propeller with
 ASC-II™ Advanced Structural Composite blades
 2400 hour / 6 year TBO
 64.0 pounds (propeller and spinner)

Replaces: Hartzell HC-I2YR-1BF/F8074K - 80 inch dia. 2-bladed prop
 2000 hour / 6 year TBO
 63.5 pounds (propeller and spinner)

Hartzell HC-I3YR-1E/7890K 80 inch dia. 3 bladed prop.
 2400 hour / 6 year TBO
 75.4 pounds (propeller and spinner)

Advantages: Improved cruise speed (2 knots over POH)
 Lighter weight than existing 3-blade
 Better take-off and climb performance than 2-blade
 Lower noise and improved cooling
 Improved appearance
 Smoother operation than original 2-blade
 Longer TBO than original 2-blade

Notes: Model PA46-350P (s/n 462201 – 4622200 & 4630001 – 4636131) when removing a two blade Hartzell HC-I2YR-1BF/F8074K propeller.

1.) Approximately 40 hours of labor are required to install this STC kit with de-ice. (Approximately 30 hours are required when installed in conjunction with an annual inspection.)

2.) Wire is not included with the kit. The following wire is required:

<u>Wire</u>	<u>Quantity</u>
M22759/7-14	30 ft.
M22759/7-16	2 ft.
M22759/7-18	6 ft.
M22759/7-20	10 ft.

Supplier for the wire: Astro Wire & Cable
 (800) 543-5810 phone

3.) Auxiliary cabin heat is interlocked with the propeller de-ice system. (Auxiliary cabin heat is inoperative when propeller heat is turned on).

Note 4 applies to all eligible models:

4.) Installation kits assume that Hartzell HC-I2YR-1BF/F8074K or Hartzell HC-I3YR-1E/7890K propeller was installed per the original type certificate data sheet or STC SA1340CH. If any other propeller has been installed, the aircraft must be returned to the original type certified configuration before installing this STC. A 2 – 3 hour installation time should be expected where the Hartzell HC-I3YR-1E/7890K three blade propeller was installed previously.



Piper PA-46-500TP Malibu Meridian with PT6A-42A engine



Kit with Electric De-ice:

Part Number: 5DN00001S

1 5-Bladed ASCII Composite Propeller: 5D3-N338A1/78D01B

1 Polished Spinner: 105951P

1 De-ice kit (airframe): 106337

1 STC Document Set: SA04045CH

1 Gust-Lock Cover: 106515-500

**Aircraft Serial and registration numbers required when ordering
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Installation and Dynamic Balancing available at an additional charge**

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Fax: (937) 778-4215
Email: topprop@hartzellprop.com



Piper PA-46-500TP Malibu Meridian, M500

Applicable Models: Piper PA-46-500TP

Specifications: Hartzell 82.5" inch diameter 5-bladed, all carbon Advanced Structural Composite, Second Generation (ASC-II), swept-tip, scimitar composite blades with all new lighter-weight aluminum "Raptor®" hub propeller.
 4000 hour / 6 year TBO
 128.8 pounds (prop and spinner)

Replaces: Hartzell – 82.5" HC-E4N-3Q/E8501B-3.5 4-bladed aluminum
 4000 hours/6 year TBO
 144.8 pounds
 Diameter: to 82.5" Max., 81.5" min.

MT-Propeller 79.92" 5 blade MTV-27-1-E-C-F-R(P)/CFR203-58d with laminated wood blades
 3000 hours/6 years
 142 lb (prop w/de-ice)

Advantages: Carbon fiber construction allowing for thinner, stiffer airfoil design for better all around performance.
 20% greater take-off acceleration.
 90 fpm better ROC at Vy.
 2-3 knots cruise speed increase.
 Significantly reduced weight.
 Measured take-off and climb noise number of 74.9 dB(a) complies with both FAR Part 36, Appendix G, and ICAO, Annex 16, Chapter 10 by a wide margin. 1.9 dB(a) reduction from standard airplane.
 No change in RPM limitations or placards.
 Strongest material available with field replaceable nickel steel leading edge erosion shield – no lost performance due to reduced diameter
 Best Warranty in the industry along with worldwide support.



Piper PA28R-201T Turbo Arrow III,
Piper PA28RT-201T Turbo Arrow IV
With TSIO-360-F, -FB engine



Basic Kit:

- Part Number:** C3F00111STP
- 1 3-Bladed Propeller:** PHC-C3YF-1RF/F7663-4T
- 1 Polished Spinner:** C-3570-P
- 1 STC Document Set:** SA01024CH

Aircraft Serial and registration numbers required when ordering
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PIPER TURBO ARROW

Applicable Models: PA-28R-201T, PA-28RT-201T

Specifications: 74 inch diameter 3-bladed aluminum hub propeller
2400 hour / 6 year TBO
74 pounds (propeller and spinner)
Diameter reduction allowable to 72 inches

Replaces: Hartzell BHC-C2YF-1()/F8459A-8R - 76 inch dia. 2-bladed prop
Diameter reduction allowable to 75 inches
2000 hour / 5 year TBO
54 pounds (propeller and spinner)
Placard - "Avoid continuous ground operation 1700-2100 RPM in cross/tail winds over 10 kts."
Placard - "Avoid continuous operation 2000-2200 RPM above 32" manifold pressure."

Advantages: Increased ground clearance
Lower noise
Eliminates placard
Improved appearance
Greater diameter repair