



American Champion 8GCBC Scout & Denali Scout  
Model with O-360-C1A, -C1E, -C1G  
(180 hp), or IO-390-A1B6 (210 hp) engines. All gross  
weights. NO RPM Restrictions



## 2 Blade ASCII Propeller STC Kit: (Includes: Propeller, Spinner, and STC Documents)

### Basic Kit:

<b>Part number:</b>	<u>C2R40875STP (180 hp) or C2R40900STP (210 hp)</u>
<b>1 2-Bladed Propeller</b>	HC-C2YR-1N/N8301-3 (180 hp) or BHC-C2YR-1N/N8301-3 (210 hp) "Trailblazer"
<b>1 Polished Spinner</b>	D-4798P
<b>1 STC Document Set</b>	SA09855AC

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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](http://www.hartzellprop.com)

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

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## American Champion Aircraft (Champion Aircraft, Bellanca)

**Applicable Models:** 8GCBC

**Specifications:** 80 inch diameter 2-bladed, aluminum hub, ASC II Carbon Composite Blades  
2400 hour / 6 year TBO  
41.0 pounds (propeller only)

**Replaces:** Hartzell HC-C2YK-1BF/F7666A 2-blade aluminum hub and blades  
Diameter: Max. 76", Min 72"  
2400 hour / 6 year TBO  
57.0 Pounds (w/metal spinner)  
Placard:" Avoid 2000-2300 Continuous Operation".

Hartzell HC-C3YR-1RF/F7282-2-blade aluminum hub, ASCII Composite Blades  
Diameter: Max. 72", Min 70"  
2400 hour / 6 year TBO  
67.5 Pounds  
Placard:" Avoid 1950 - 2350 Continuous Operation Below 15 Inches M.P.".

MTV-15-B/190-18a 75 inch diameter 3-blade, wood propeller  
74.5 inch minimum diameter  
2400 Hours / 6 years  
54.0 Pounds

MTV-9-B/203-58 80.25 inch diameter 2-blade, wood propeller  
79.75 inch minimum diameter  
2400 Hours / 6 years  
45.0 Pounds

**Advantages:** No RPM Restrictions. .  
Improved climb performance 3% - 6% over two blade laminated wood propeller.  
Approved at all gross weights.  
Smoother idle,  
Light weight.  
High durability and lowest life cycle cost, Unlimited life blades.  
Best warranty in the industry& worldwide support.

**Notes:**



**Aviat Husky A-1 thru A-1C-180 and A-1C-200  
with O-360-C1G, -A1P (180 hp), or IO-360-A1D6  
(200 hp) engines. All gross weights.  
NO RPM Limitations**



**2 Blade ASCII Propeller STC Kit:**  
(Includes: Propeller, Spinner, and STC Documents)

**Basic Kit:**

<b>Part number:</b>	<u>C2R40500STP (180 hp) or C2R40600STP (200 hp)</u>
<b>1 2-Bladed Propeller</b>	HC-C2YR-1N/NG8301-3 "Trailblazer"
<b>1 Polished Spinner</b>	C-3568-P, or
<b>1 Composite Spinner</b>	105656F1 (Matterhorn White), or
<b>1 Composite Spinner</b>	105656F2 (Metallic Silver)
<b>1 STC Document Set</b>	SA11177SC

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**Aviat Husky**

**Applicable Models:** A-1, A-1A, A-1B, A-1C-180, A-1C-200

**Specifications:** 80 inch diameter 2-bladed, aluminum hub, ASC II Composite Blades  
2400 hour / 6 year TBO  
41.0 pounds (propeller only)

**Replaces:** Hartzell HC-C2YK-1BF/F7666A 2-blade aluminum hub and blades  
Diameter: Max. 76", Min 72"  
2400 hour / 6 year TBO  
57.0 Pounds (w/metal spinner)

Hartzell HC-C2YR-1N/F7605 2-blade aluminum hub, ASCII Composite Blades  
Diameter: Max. 76", Min 72"  
2400 hour / 6 year TBO  
43.0 Pounds

Hartzell HC-C2YK-1BF/F8477-4 2-blade aluminum hub and blades  
Diameter: Max. 80", Min 78"  
2400 hour / 6 year TBO  
71.5 Pounds (with spinner and damper)  
De-rated to 2600 RPM (175 HP for noise)

MTV-15-B/205-58 80.7 inch diameter 2-blade, wood propeller  
.8 inch diameter reduction allowed  
2400 Hours/6 years  
47.5 Pounds  
De-rated to 2600 RPM (175 HP for noise)

**Advantages:** Allows engine to run at full power continuously (2700 RPM)  
Improved take-off and climb performance  
Decreased take-off distance  
Approved at all gross weights  
FAR 36 compliant - Measured 81.7 dB(a) on A-1C-180/200,  
Measured 78.1 dB(a) on A-1, A-1A & A-1B  
Smoother idle  
Light weight  
High durability and lowest life cycle cost

**Notes:** Composite Spinner is approx. 2.0 lb. lighter than the aluminum version.



**CIRRUS DESIGN SR22 & SR22T  
with IO-550-N, and TSIO-550-K engines  
All gross weights.**



**3 Blade ASCII Propeller Kit:  
(Includes: Propeller, Spinner, and optional anti-ice boots)**

Basic Kit:

**Part number:** J3F90000AFM  
**Part number (booted):** J3F90500AFM  
**1 3-Bladed Propeller:** PHC-J3Y1F-1N/N7605C(B)  
**1 Polished Spinner:** A-2295-11P

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**Aircraft Serial and registration numbers required when ordering  
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### Cirrus Design

**Applicable Models:** SR22 & SR22T

**Specifications:** 78 inch diameter 3-bladed, aluminum hub, ASC II Composite Blades  
2400 hour / 6 year TBO  
57.25 prop/boots

**Replaces:** Hartzell PHC-J3YF-1RF/F7694(B) -3-blade aluminum hub and blades Diameter: Max. 78", Min 76"  
2400 hour / 6 year TBO  
74.5 Pounds

McCauley D3AC443/78CYA-0 3-blade aluminum hub,  
Diameter: Max. 78", Min 76"  
2400 hour / 6 year TBO  
69.7 Pounds

Hartzell PHC-J3YF-1RF/F7693DF(B) 3-blade aluminum hub and blades  
Diameter: Max. 78", Min 76"  
2400 hour / 6 year TBO  
75.5 Pounds

MTV-9-D/198-52 78 inch diameter 3-blade, wood propeller  
Diameter: 78"  
2400 Hours/6 years  
53.0 Pounds

### Advantages:

Approved at all gross weights  
FAR 36 compliant  
Smoother idle  
Light weight  
High durability and lowest life cycle cost  
Approved in all countries were the SR22 has been certified.

**Notes:** This kit is Type Certificated on these aircraft per FAA Type Certificate Data Sheet A00009CH.



Rockwell (Gulfstream) (Commander) 112, 112A,  
112B, 112TC, 112TCA  
With IO-360-C1D6, TO-360-C1A6D engine (Lycoming)



**Basic Kit: for TC, TCA (Turbo)**

- Part Number: E3R00016STP
- 1 3-Bladed Propeller: HC-E3YR-1RF/F7392
- 1 Polished Spinner: C-3535-1P
- 1 STC Document Set: SA00499SE

**Basic Kit: Non-Turbo Models**

- Part Number: E3R00017STP
- 1 3-Bladed Propeller: HC-E3YR-1RF/F7392
- 1 Polished Spinner: C-3535-1P
- 1 STC Document Set: SA00499SE

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## ROCKWELL (COMMANDER, GULFSTREAM AEROSPACE)

**Applicable Models:** 112, 112A, 112B, 112TC, 112TCA

\* Note: The 112A designation does not appear on the STC documents. The FAA designates both the "112" and "112A" models as the "112" model aircraft within two serial number ranges. The "112A" designation was a marketing designation created by Rockwell which is not recognized by the FAA.

\*\* Note: For aircraft which are equipped with an RCM Normalizing, Inc. "Hot Shot" turbo/intercooler system, you *do not* have the right to sell the STC kit. This kit is installed under STC SA5202NM, which is owned by RCM Normalizing, Inc. The only legal way to install the propeller on aircraft equipped with the turbo system is through RCM, and the customer must be referred to RCM. Contact information is:

RCM Normalizing, Inc  
 Attention: Mr. Carl Lee  
 6395 Parkhill Road  
 Santa Margarita, CA 93453  
 Phone: 805.215.2982  
 E-mail: [carl@rcmnormalizing.com](mailto:carl@rcmnormalizing.com)  
 Website: [www.rcmnormalizing.com](http://www.rcmnormalizing.com)

**Specifications:** 75 inch diameter 3-bladed, scimitar, aluminum hub propeller  
 2400 hour / 6 year TBO  
 80.5 pounds (propeller and spinner)  
 Diameter reduction allowable to 73 inches  
 Placard: "Avoid continuous operation below 15" manifold pressure between 2050 and 2450 RPM."

**Replaces:** Hartzell HC-E2YR-1BF/F7666A - 76 inch dia. 2-bladed prop  
 Diameter reduction allowable to 74 inches  
 2000 hour / 5 year TBO  
  
 Hartzell HC-E2YR-1BF/F8467-7R – 77 inch dia. 2-bladed prop  
 Diameter reduction to 76.5 inches  
 2000 hour / 5 year TBO

**Advantages:** Better take-off and climb performance  
 Lower noise  
 Increased ground clearance  
 Less restrictive placard  
 Improved appearance  
 Compatible with RCM turbo-normalizing kit (STC SA5202NM)





## Diamond DA 40(XL) With IO-360-M1A engine



### Basic Kit:

**Part Number:** C2R10706STP

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

**1 Polished Spinner:** A-2295-P

**1 Oil Cooler Modification Kit:** 102603

*\*\* required on aircraft serial number 40.1029 and earlier*

*\*\* already equipped on serial number 40.1030 and later*

**1 STC Document Set:** SA02476CH-D

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Aircraft Serial and registration numbers required when ordering  
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Prices do not include Ohio State Sales Tax  
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**DIAMOND DA 40(XL)**

**Applicable Models:** DA 40(XL)

**Specifications:** 74 inch diameter 2-bladed, aluminum hub, aluminum blades  
 2 inch diameter reduction allowed  
 2400 hour / 6 year TBO  
 62.8 pounds (propeller and spinner)

**Replaces:** MTV-12-B/180-17 – 71 inch diameter 3-blade, wood propeller  
 2 inch diameter reduction allowed  
 MTV-12-B/183-596 – 72 inch diameter 3-blade, wood propeller

**Advantages:** Allows engine to run at full power continuously (2700 RPM)  
 More durable  
 Fastest  
 Least Expensive

**Notes:** Compatible with Hartzell S-1-6 or Woodward/Ontic C210776 Governor  
 Compatible with Power Flow exhaust and early cowling (STC SA03281AT)  
 Compatible with Power Flow exhaust and later cowling (STC SA02292NY)  
 Compatible with Garmin G1000 Integrated Avionics System (STC SA01254WI)  
 Compatible with original MAM-066 WCC Exhaust System  
 Compatible with 2646 (1200kb) maximum take off weight



## Diamond DA 40(XL) With IO-360-M1A engine



### Basic Kit:

**Part Number:** C2R31051STP

**1 2-Bladed Propeller:** HC-C2YR-1N/N7605

**1 Polished Spinner:** A-2295-P

**1 Oil Cooler Modification Kit:** 102603

*\*\* required on aircraft serial number 40.1029 and earlier*

*\*\* already equipped on serial number 40.1030 and later*

**1 STC Document Set:** SA02476CH-D

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**DIAMOND DA 40(XL)**

**Applicable Models:** DA 40(XL)

**Specifications:** 76 inch diameter 2-bladed, aluminum hub, ASC II Composite Blades  
2400 hour / 6 year TBO  
46.8 pounds (propeller and spinner)

**Replaces:** MTV-12-B/180-17 – 71 inch diameter 3-blade, wood propeller  
2 inch diameter reduction allowed  
MTV-12-B/183-596 – 72 inch diameter 3-blade, wood propeller

**Advantages:** Allows engine to run at full power continuously (2700 RPM)  
Smoother idle  
Lightest  
Most technologically advanced  
High durability and lowest life cycle cost

**Notes:** Compatible with Hartzell S-1-6 or Woodward/Ontic C210776 Governor  
Compatible with Power Flow exhaust and early cowling (STC SA03281AT)  
Compatible with Power Flow exhaust and later cowling (STC SA02292NY)  
Compatible with Garmin G1000 Integrated Avionics System (STC SA01254WI)  
Compatible with original MAM-066 WCC Exhaust System  
Compatible with 2646 (1200kb) maximum take off weight



## Diamond DA 40 With IO-360-M1A engine



### **Basic Kit Includes:**

**Part Number: C2R00028STP**

1 2-Bladed Propeller	HC-C2YR-1BF/F7495S
1 Polished Spinner	A-2295-P
1 STC Document Set	SA01850CH

Note 1. **NOT COMPATIBLE** with Power Flow exhaust system per Power Flow Systems STC SA03281AT.

Note 2. This STC is for sale for aircraft registered in all EASA countries, and China only. All others, see Hartzell STC SA02476CH-D propeller conversion kits.

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**DIAMOND DA 40**

**Applicable Models:** DA 40

**Specifications:** 74 inch diameter 2-bladed, aluminum hub, shot peened blades  
2 inch diameter reduction allowed  
2400 hour / 6 year TBO  
59 pounds (propeller and spinner)

**Replaces:** MTV-12-B/180-17 – 71 inch diameter 3-blade, wood propeller  
2 inch diameter reduction allowed

**Advantages:**  
2-4 knots increase in cruise speed  
Allows engine to run at full power continuously (2700 RPM)  
Smoother idle  
More durable

**Notes:**  
Special maintenance instructions apply for shot peened blades  
**NOT COMPATIBLE** with Power Flow exhaust system per Power Flow Systems STC SA03281AT.

This STC is for sale for aircraft registered in all EASA countries, and China only. All others, see Hartzell STC SA02476CH-D propeller conversion kits.



**Fairchild SA226-TC Metro II  
(except s/n TC-398 through TC-418)  
With TPE331-3, -10 Series engine**

**Basic Kit:**

**Part Number:** E4N00267STP

**2 4-Bladed Propeller:** HC-E4N-5D/D9690B

**2 Polished Spinner:** D-5319-P

**1 Airframe De-ice kit:** 7931-5E2647-2

**2 STC Document Set:** SE01461NY (engine)  
SA01462NY (airframe)

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## FAIRCHILD METRO II

**Applicable Models:** SA226-TC

**Specifications:** 97 inch diameter 4-bladed, aluminum hub propeller  
Diameter reduction allowable to 95 inches  
4000 hour / 6 year TBO

**Replaces:** Hartzell HC-B3TN-5 / T10282 – 102 inch dia. 3-bladed propeller  
No diameter reduction allowable  
3000 hour / 5 year TBO

**Advantages:**  
Dramatically lower noise  
Increased ground clearance  
Smoother overall operation

**Notes:** Modification requires 40 hours of labor including the modification to the engine and de-ice wiring  
No beta tube change is required, however rework is needed per Service Bulletin TPE331-72-0904





## Trailblazer Homebuilt® Carbon Fiber Composite Technology for select Lycoming (I)O-360 & IO-390 engines for amateur-built applications



### 2 Bladed ASCII Composite Propeller

FAA Designee tested, vibrationally compatible with select 180, 200, 210 hp Lycoming engines. For use with counter-weighted and non-counter-weighted crankshaft engines. Multiple diameter units available. Hartzell's 8301 Trailblazer blade was specifically designed for low speed thrust, take-off, and climb performance.

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## Trailblazer Homebuilt®

### Available Models:

#### Option 1:

83" 2 blade Carbon Fiber standard hub Constant Speed Trailblazer  
C2RXXXXXEXTP  
HC-C2YR-1N/NG8301 propeller

#### Option 2:

80" 2 blade Carbon Fiber standard hub Constant Speed Trailblazer  
C2RXXXXXEXTP  
HC-C2YR-1N/NG8301-3 propeller

#### Option 3:

78" 2 blade Carbon Fiber standard hub Constant Speed Trailblazer  
C2RXXXXXEXTP  
HC-C2YR-1N/NG8301-5 propeller

#### Option 4:

76" 2 blade Carbon Fiber standard hub Constant Speed Trailblazer  
C2RXXXXXEXTP  
HC-C2YR-1N/NG8301-7 propeller

#### Compatible with:

a. (I)O360-()1()  
180 HP @ 2700 RPM  
No crankshaft counterweights  
Compression ratio 8.5:1 or less  
(Not compatible with Option 4)

b. (I)O360-()1()6  
180 or 200 HP @ 2700 RPM  
With crankshaft counterweights  
Compression ratio 8.9:1 or less

c. IO-390-A3()6  
210 HP @ 2700

**Specifications:** 2-bladed, aluminum hub, ASC II Composite Blades  
2400 hour / 6 year TBO  
43.0 pounds (propeller)

**Advantages:** No RPM limitations (yellow arc)  
Smoother idle  
Very light weight  
Most technologically advanced  
High durability and lowest life cycle cost

**Note 1:** Trailblazer Homebuilt® kits do not come with spinner assemblies or spinner mounting kits.

**Note 2:** Models are available for special order only. Contact Mike Trudeau at 937-778-4212 for details.