



**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.)

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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



**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.