

ICA_010614, Rev. IR

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR**

**HARTZELL HC-C3YR-1RF/F7282 PROPELLER and HARTZELL 835-47(), 835-52(),
103629() SPINNERS
ON PIPER
PA-28R-180, PA-28R-200, PA-28R-201, and PA-28RT-201 AIRCRAFT**

STC SA4528NM

LOG OF REVISIONS

Revision	Revised Pages	Description of Revision	Date
IR	All	Initial Release	

NOTE: All changes are indicated by a black vertical line along the left margin.

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APPLICABLE MODELS

This STC'ed propeller and spinner conversion applies to Piper PA-28R-180, PA-28R-200, PA-28R-201, and PA-28RT-201 aircraft, all serial numbers.

Section 1 - GENERAL DESCRIPTION

The subject STC approves replacement of the original propeller and spinner models listed in Type Certificate Data Sheet 2A13 for Piper PA-28R-180, PA-28R-200, PA-28R-201, and PA-28RT-201 aircraft with a Hartzell HC-C3YR-1RF/F7282 propeller and Hartzell 835-47(), 835-52(), or 103629() spinner . A detailed description of propeller construction and function may be found in Hartzell Manual 115N that is supplied with each STC kit. A detailed description of spinner construction and maintenance may be found in Hartzell Manual 127 for aluminum spinner assemblies or Manual 148 for composite spinner assemblies.

The information contained in these Instructions for Continued Airworthiness (ICA) supplements or supersedes the information provided in the Piper Arrow Service manual only in those areas listed. When applicable, specific paragraph numbers from the Piper Service manual are referenced.

Chapter 4 – AIRWORTHINESS LIMITATIONS

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sections. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no life-limited components used in the STC installation.

Chapter 5 – TIME LIMITS / MAINTENANCE CHECKS

All required maintenance, inspections, time intervals and procedures are provided in Hartzell Manual 115N (Hartzell Propeller Owner's Manual) provided with each propeller. Recommended Time-Between-Overhaul (TBO) limits for the STC propeller may be found in Hartzell Service Letter 61 (HC-SL-61-61Y is available at www.hartzellprop.com).

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Chapter 61 – PROPELLERS

Propeller:

The propeller model used for this STC on the applicable aircraft models listed above is HC-C3YR-1RF/F7282.

The STC propeller should be installed in accordance with STC Installation Instructions INST_010614. All required maintenance, inspections, time intervals and procedures are provided in Hartzell Manual 115N (Hartzell Propeller Owner's Manual) provided with each propeller. Recommended Time-Between-Overhaul (TBO) limits for the STC propeller are provided in Hartzell Service Letter HC-SL-61-61Y. Propeller overhaul must be accomplished by an approved Propeller Repair Station.

Spinner:

This STC utilizes either an aluminum spinner assembly model 835-47() or 835-52() or a hybrid aluminum-composite spinner, model number 103629().

The hybrid spinner uses an aluminum aft adapter ring that attaches to the engine ring gear and a lightweight, composite spinner dome. The composite spinner dome is supported by a slip-fit, composite forward bulkhead that engages the propeller cylinder.

A single row of screws attaches all of the dome types to the adapter ring, while a row of bolts attaches the adapter ring to the engine ring gear for all of the spinner assemblies.

Refer to Hartzell Manual 127 for the maintenance requirements and procedures of the aluminum spinner assemblies or Manual 148 for maintenance requirements and procedures of the hybrid composite spinner.

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