

ICA-10091

**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
FOR GAME COMPOSITES GB1 GAMEBIRD AIRCRAFT
WITH A HARTZELL HC-C3YR-4BN/NC8302H-7.5**

STC SA11836CH

LOG OF REVISIONS

Revision	Revised Pages	Description of Revision	Date
IR	All	Initial Release	12/04/2024

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

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APPLICABLE MODELS

This STC propeller installation applies to all Game Composites GB1 GameBird aircraft equipped with a Lycoming AEIO-580-B1A engine.

INTRODUCTION – GENERAL DESCRIPTION

The subject STC approves replacement of the original propeller and spinner model listed in the airplane Type Certificate Data Sheet A00073CE with a model HC-C3YR-4BN/NC8302H-7.5 propeller and 109725 spinner. A detailed description of propeller construction and function may be found in Hartzell Propeller Owner's Manual 145 that is supplied with each STC kit.

The information contained in these Instructions for Continued Airworthiness (ICA) supplements or supersedes the information provided in the applicable Game Composites GB1 GameBird Maintenance Manual only in those areas listed.

Current ICA and service letters are maintained and distributed via www.hartzellprop.com.

CHAPTER 4 – AIRWORTHINESS LIMITATIONS

NOTE: The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR §43.16 and §91.403 unless an alternative program has been FAA approved.

There are no new (or additional) airworthiness limitations associated with this equipment and/or installation.

CHAPTER 5 – TIME LIMITS, ACCESS, & MAINTENANCE CHECKS

All required maintenance, inspections, time intervals and procedures are provided in Hartzell Propeller Owner's Manual 145 provided with each propeller. Recommended Time-Between-Overhaul (TBO) limits for the STC propeller may be found in Hartzell Service Letter HC-SL-61-61Y (available at www.hartzellprop.com).

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CHAPTER 61 – PROPELLER, GOVERNOR, & SPINNER

Propeller

The propeller model used for this STC on the GB1 GameBird aircraft is HC-C3YR-4BN/NC8302H-7.5. The STC propeller is a 77.5” diameter, three-blade, constant-speed propeller.

The STC propeller should be installed in accordance with STC Installation Instructions INST-10091. All required maintenance, inspections, time intervals, and procedures are provided in Manual 145 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 a carbon composite spinner model number 109725. The spinner assembly includes a carbon composite aft bulkhead and a single-piece spinner dome. The spinner dome is supported by an integral forward bulkhead that engages the propeller cylinder. A single row of screws attaches the dome to the aft bulkhead. Refer to Hartzell Composite Spinner Maintenance Manual 148 for maintenance requirements and procedures of the spinner assembly.

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