Composite Aircraft Propellers

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ADDENDUM TO STANDARD 3B0R5 REV-A5 INSTALLATION INSTRUCTIONS.

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Purpose: This addendum provides additional information and supplemental sections required by ASTM standards. Refer to the standard 3B0R5 rev A5 installation and operation instructions for all other procedures.

OVERALL DESCRIPTION OF THE PROPELLER AND ITS FEATURES:

Your Sensenich composite propeller was manufactured using aerospace quality materials and processes. Propeller balance was verified before shipment from the factory.

The blades were manufactured hollow, utilizing the latest carbon fiber and glass prepreg materials in a high temperature internal pressure molding process. This yields a low inertia propeller with superior performance and durability.

The high gloss finish provides UV and environmental protection. Rain and sand protection is provided by metal erosion shields on the blade leading edges. The erosion shields are co-cured with the blade prepreg, providing a smoother finish and a superior bond.

Sensenich's Pitch Gage/ Hub system allows its users to set a broad range of pitches, using the system's preset gages when making adjustments. The various gages provide 6 different settings of pitch change affording maximum performance within an efficient aerodynamic envelope. The blade pins contact the pitch setting gage providing a very precise blade angle and therefore eliminating the need for a blade angle measurement device.

Required Tools:

Torque wrench

For Metric bolts:
6mm allen socket
13mm open end wrench
13mm socket

Note: Certain aircraft manufacturers limit total pitch range to comply with aircraft design regulations.

PROPELLER REMOVAL

1. *Be certain that the aircraft magneto switch is "OFF" and that all magnetos are grounded any time the propeller is handled.*

2. Remove spinner dome from propeller assembly.

3. Loosen mount bolts and lock nuts. Remove bolts, lock washers, and propeller assembly from engine flange.

NOTE: The Nord-Lock washers may click loudly when loosened; this is normal. New Nord-Lock washers are assembled with rubber adhesive, which will fall apart after first use. This is normal and the washers are still usable.

NORDLOCK NOTE

Each Nord_lock washer works in pairs with the "ramped" sides facing each other. No other washers may be used in combination with Nord lock washers.

PROPELLER LIFE /OVERHAUL

LIFE LIMITATIONS: None
MAJOR PERIODIC INSPECTION: 2000 HRS
NOTE: There is no specified overhaul time. The propeller parts are removed from service when they can no longer meet the Continued Airworthiness Requirements.

PITCH NOTES AND LIMITATIONS

The faster the airplane, the higher the pitch setting that will be required to keep the engine from over-speeding at Wide Open Throttle (WOT). While the propeller may be structurally operated at any pitch setting from 0 through 5, the take-off RPM at WOT must meet the aircraft manufacturer's recommended limits to ensure safe flight.

NOTE: Certain aircraft manufacturers limit the available propeller pitch range to comply with aircraft design regulations.

CLEARANCE IN SPINNER DOME CUTOUTS

NOTE: Ensure there is adequate clearance between the spinner dome cutouts and the propeller blades and hub. Inadequate clearance may result in the spinner dome wearing into the blade or hub. The amount of clearance depends on engine type and spinner construction, but a minimum of 1/8" clearance is recommended.