

PROPELLER - GENERAL

1. Scope

A. This chapter contains information on the propeller and propeller governors. For specific information on Hartzell or McCauley propellers, refer to the applicable maintenance manual listed in the introduction - List of Vendor Publications.

2. Tools, Equipment and Materials

NOTE: Equivalent substitutes may be used for the following items:

| NAME | NUMBER | MANUFACTURER | USE |
|-------------------------------------|---------------|---|--|
| Polane Black | F63B8 | Sherwin-Williams 101 Prospect Ave. Cleveland, OH | To paint propeller, both face and camber. |
| Catalyst | V66V29 | Sherwin- Williams | To harden paint. |
| Accelerator | V66VB11 | Sherwin-Williams | To shorten paint cure time. |
| Polane Primer Sealer | E65A4 | Sherwin-Williams | To paint propeller, both face and camber. |
| White Plane | Z99WB612 | Sherwin-Williams | To paint propeller tip. |
| Spraylat Copper Lightning Guard | 599SA-A8574-1 | Sherwin-Williams | To paint propeller. |
| Polane primer | E65A4 | Sherwin-Williams | To paint propeller, both face and camber. |
| Primer | D61-A-23 | Sherwin-Williams | To paint propeller. |
| Catalyst | V66V27 | Sherwin-Williams | To harden paint. |
| Wrench Extension (5/8×12 point) | AST-2877 | Hartzell Propeller 350 Washington Ave. Piqua, OH 45356 | To torque propeller retaining bolts. |
| Beta System Compressor | CT-2834 | Hartzell Propeller | To retract beta feedback ring. |
| Beta System Puller (PT6A-140) | CST-2987 | Hartzell Propeller | To retract beta feedback ring. |
| Propeller Dome Nut Wrench | B-842 | Hartzell Propeller | To torque nut on propeller dome. |
| Propeller Blade Angle Protractor | C-2820 | Hartzell Propeller | To measure blade angle. |
| Dial Indicator | | Commercially Available | To check propeller beta feedback ring (collar) axial runout. |
| Measuring Device | 302-104 | Dyer Company P.O. Box 4966 Lancaster, PA | To measure composite blade surface damage. |
| Composite Blade Repair/Paint Kit | A-2328-3 | Hartzell Propeller | To repair composite blade minor surface damage. |
| Torque Wrench | 509006-19 | Cessna Aircraft Co. | To tighten nuts. |
| Torque Wrench Adapter | B-5588 | McCauley Propeller Systems PO Box 7704 Wichita, KS 67277-7704 | To tighten nuts. |

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| Feedback Collar Retainer | D-5945 | McCauley Propeller Systems | To retract propeller feedback collar. |
| Files | | Commercially Available | Propeller damage repair. |
| 120 Grit Sanding Disk (for rotary grinder) | | Commercially Available | Propeller damage repair. |
| 600 Grit Sand paper | | Commercially Available | Propeller damage repair. |
| Crocus Cloth | | Commercially Available | Propeller damage repair. |
| Emery Cloth (coarse grain) | | Commercially Available | Propeller damage repair. |
| Rotary Grinder | | Commercially Available | Propeller damage repair. |
| Alodine | MIL-PRF-83483 | Hinkel Technologies 32100 Stephenson Highway Madison Heights, MI 48071 | Treat exposed metal after propeller repair. |
| Methyl n-Propyl Ketone | | Commercially Available | Cleaning. |
| Lubricant | MIL-G-T-83483 | Commercially Available | To lubricate prop studs, nut threads and spacers. |

3. Definition

- A. This chapter is divided into sections and subsections to assist maintenance personnel in locating specific systems and information. For locating specific information within the chapter, refer to the Table of Contents at the beginning of the chapter.