DATE: 02 December 2019

TO: R22-series Owners, Operators, and Maintenance Personnel

SUBJECT: A258-5 Pitch Link Assembly

BACKGROUND: Part number A258-1 pitch link assembly, main rotor, is no longer available and is superseded by part number A258-5. A258-5 link assembly features a separately replaceable lower rod end and does not require lockwire. This service letter provides instructions for installation and adjustment of the new A258-5 assemblies.

A258-5 USAGE AND ADJUSTMENTS: (refer to illustration on page 2)

1. A258-5 pitch link assembly directly replaces A258-1 pitch link assembly, and may be installed singly or in pairs; there is no weight change.

2. When replacing pitch link assembly or pitch link parts, keep overall length within plus/minus 0.005 inch of removed link prior to disassembly.

3. After pitch link installation or adjustment, verify both rod end threaded shanks block passage of 0.020 inch diameter lockwire at witness holes in barrel assembly. Rod ends must also be centered, or positioned, to allow as much link rotation as possible without binding.

4. Apply torque stripes for maximum preflight visibility after torquing nuts.

5. Due to a self-locking thread insert, lockwire is not required on the A258-5 pitch link assembly.

6. Similar to A258-1 pitch link assembly, blade tracking fine adjustment is accomplished by rotating barrel with rod ends remaining connected to pitch horn and swashplate.

7. Apply light coat of A257-2 or A257-22 oil to threads when replacing rod ends.

Approximate Cost:

Parts: $680 for one complete A258-5 link assembly.

(OVER)
Medium Length Adjustment
*Upper Rod End Only*
- One-half turn of upper rod end changes blade track 0.25 inch
- One-half turn of upper rod end changes blade angle 0.24°

Fine Adjustment
*Barrel Assembly Only*
- One-half turn of barrel changes blade track 0.125 inch
- One-half turn of barrel changes blade angle 0.12°

Coarse Length Adjustment
*Lower Rod End Only*
- One-half turn of lower rod end changes blade angle 0.36°

- **B163-1 Rod End** (Upper, attaches to pitch horn)
- **B330-16 Nut**
- **AN316-5R Jam nut**
- **Torque stripe (typical)**
- **Witness Hole**
  After any adjustment, verify rod end threaded shank blocks passage of 0.020-inch dia lockwire.

- **A258-6 Barrel assembly**
  (includes self-locking thread insert; lockwire is not required)
- **21FKF-616 Jam nut**
- **(Torque 100 in.-lb)**
- **Torque stripe (typical)**
- **D173-5 Rod End** (Lower, attaches to swashplate)