



SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-003

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DATE: June 6, 1996

1. SUBJECT: Possible Interference Involving Main Rotor Pitch Change Bellcrank (Cyclic Walking Beam), P/N 28-14207-101

2. MODEL: TH-28 and 480 Helicopters

3. EFFECTIVITY: All TH-28 and 480 helicopters with the following serial number Main Rotor Pitch Change Bellcranks:

01-001-95EC through 01-030-95EC

02-001-96EC through 02-022-96EC

03-001-96EC through 03-030-96EC

4. BACKGROUND:

Enstrom has found a possible interference problem involving the Main Rotor Pitch Change Bellcranks (Cyclic Walking Beams), P/N 28-14207-101. The interference occurs between the Pitch Change Bellcrank and the end fitting in the Main Rotor Control Rod, P/N 4140532-1. The interference may be encountered when the collective is in the full down position and the cyclic stick is moved through a full throw stick swirl when the pilot checks the controls for freedom of movement during a preflight inspection. This interference is virtually impossible to encounter during flight.

5. COMPLIANCE:

Within the next 5 hours time in service, visually inspect the ears of the Main Rotor Pitch Change Bellcranks, P/N 28-14207-101, for damage caused by contacting the end fitting in the Main Rotor Control Rods (See Figure 1). Inspect for damage by either moving the collective to the mid-range position and using a mirror to inspect for the damage or disconnect the Pitch Change Bellcranks from the Main Rotor Control Rods and the Bellcrank Bracket. Follow the procedures for collective friction use and removing the Pitch Change Bellcranks as found in the TH-28/480 Maintenance Manual.

If no damage is found, proceed to paragraph 5.1. If damage is found, remove the damaged Pitch Change Bellcrank(s) from the aircraft. Using a half-round "Swiss" file or other suitable device, remove the damage from the Pitch Change Bellcrank(s). After the damage is removed, polish the area with crocus cloth to a 32 finish or better and apply a protective coating of epoxy primer (Desoto #593 X 300 or equivalent). Modify the Main Rotor Control Rods following the procedure in paragraph 5.1.

5.1. MODIFICATION

Remove the Pitch Change Bellcranks from the helicopter following the procedures in TH-28/480 Maintenance Manual.

Using a $\frac{1}{8}$ (.125) inch round file or other suitable device, radius the edge of the end fitting in the Main Rotor Control Rod, P/N 4140532-1 (See Figure 2). After radiusing the edge of the end fitting, polish the area using crocus cloth to a 32 finish or better and apply a protective coating of epoxy primer (Desoto #593 X 300 or equivalent).

Reinstall the Pitch Change Bellcranks following the procedures in TH-28/480 Maintenance Manual.

6. SPECIAL TOOLS:
None Required.
7. MAN-HOURS: 1.5 Hours
8. WARRANTY:
Warranty coverage per Enstrom Warranty Policy.
9. WEIGHT CHANGE:
None
10. LOG BOOK ENTRY:
Enter compliance with this SDB in the airframe log book and in the "Maintenance Notes" section of the component cards for the Pitch Change Bellcranks.
11. REPETITIVE INSPECTIONS:
As defined in Section 3 of the TH-28/480 Maintenance Manual.

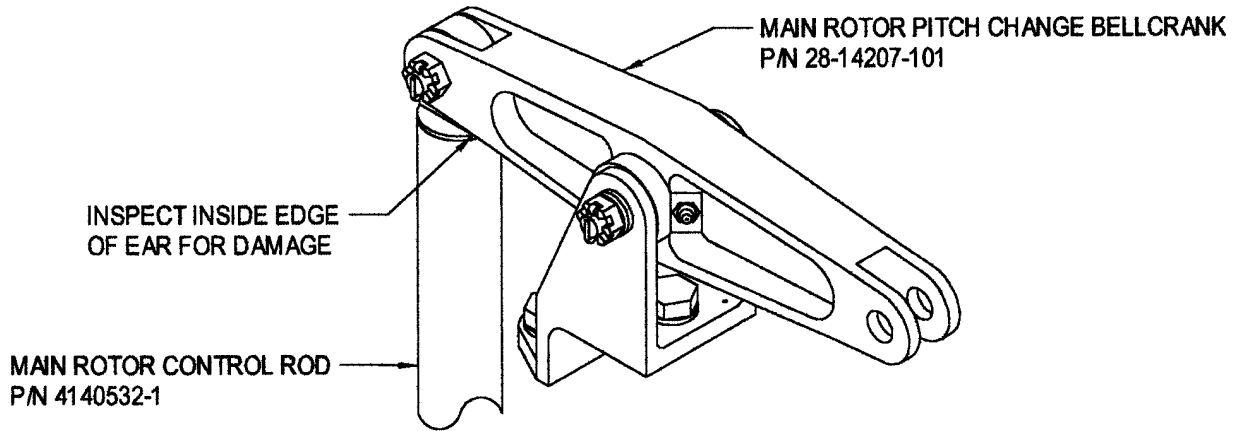


FIGURE 1

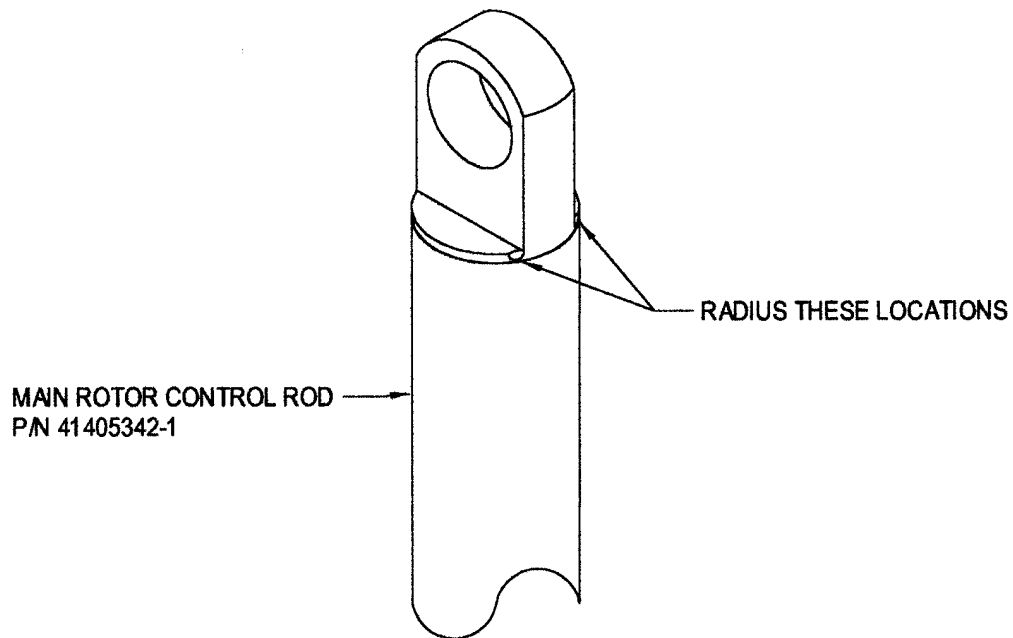


FIGURE 2