

ENSTROM HELICOPTER CORPORATION

2209 22ND STREET, P.O. BOX 490, MENOMINEE, MICHIGAN 49858-0490 USA

SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-009 Page 1 of 3

DATE: October 3, 1997

1. SUBJECT: Fuel Shutoff Valve Modification

2. MODEL: TH-28 and 480 Helicopters

3. EFFECTIVITY: TH-28: Serial Number 3006, 480: Serial Numbers 5001 through

5008

4. BACKGROUND:

Enstrom has received field reports of difficult operation of the fuel shut off valve in model 480 helicopters as noted under effectivity.

Enstrom changed the design of the control arm and the mounting bracket to connect the control cable to the pivot at the centerline of the arm instead of at the pivot located on the top of the control arm. This change was incorporated in 480, S/N 5009.

NOTE

Enstrom recommends complying with Service Information Letter T-006, Improved Fuel Shutoff Valve Operation, during compliance with this Service Directive Bulletin.

5. COMPLIANCE:

At or before the next 100 hour/annual inspection, replace the existing fuel shutoff valve arm and mounting bracket used on the fuel shut off valve assembly with the new arm, P/N 4122015-17; swivel, P/N 4122015-19; and bracket assembly, P/N 4122049-3.

5.1. MODIFICATION:

- 1. Remove the fuel shutoff valve assembly from the helicopter in accordance with (I/A/W) the TH-28/480 Maintenance Manual, paragraph 10-26.
- 2. Remove the lockwire and hardware from the mounting bracket and remove the valve assembly from the mounting bracket. Discard the o-ring located between the valve and the tee.
- 3. Install a new o-ring, P/N MS28775-113, between the valve and the tee. Install the new mounting bracket, P/N 4122049-3, onto the valve assembly. Torque the hardware to 15-20 in-lbs and lockwire (.025).
- 4. Remove the screw securing the arm to the valve assembly and remove the arm.
- 5. Install the new arm, P/N 4122015-17, onto the valve assembly and install the screw. Visually check that the arm is correctly oriented by looking into the valve assembly through the outlet port. The valve must be closed when the arm is positioned as shown in Figure 1. Install the swivel, P/N 4122015-19, and the screw and jamnut from the old arm into the new arm.

NOTE

The swivel, screw, and jamnut can be installed after the valve assembly is reinstalled in the helicopter.

- 6. Install the fuel shutoff valve I/A/W the TH-28/480 Maintenance Manual, para. 10-30.
- 7. Service the fuel cells and check for leaks.
- 8. Bleed the fuel system I/A/W the Allison 250-C20 Series Operation and Maintenance Manual.

5.3. PARTS:

<u>Description</u>	Part Number	Quantity
Arm	4122015-17	1 Ea.
Swivel	4122015-19	1 Ea.
Bracket Assembly	4122049-3	1 Ea
O-Ring	MS28775-113	1 Ea.

6. SPECIAL TOOLS: None

7. MAN-HOURS: 2 hours

8. WARRANTY:

Enstrom will provide replacement parts (see para. 5.3) at no charge and 2 man-hours of labor at warranty rates contingent on the return of the removed parts. Reference this Service Directive Bulletin and the aircraft serial number when ordering parts.

9. WEIGHT CHANGE: None

10. LOG BOOK ENTRY: Enter compliance with this Service Directive Bulletin.

11. REPETITIVE INSPECTIONS: None

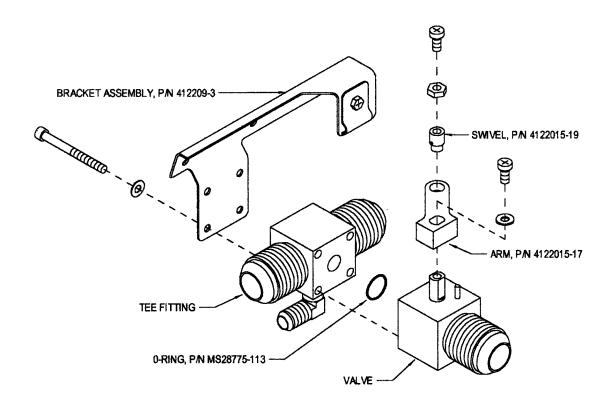


FIGURE 1