



# SERVICE BULLETIN

DATE: 23 FEBRUARY 1999

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**MANDATORY**

## ENGINE FUEL FILTER PRESSURE SWITCH REPLACEMENT

### 1. PLANNING INFORMATION

#### A. Aircraft Affected:

All MD Helicopters, Inc. (MDHI) 369D, 369E and 500N Series Helicopters equipped with 369D28144-1 fuel filter pressure switches.

**NOTE:** Only aircraft equipped with C20R/2 SP engines having the 369D28144-1 fuel filter pressure switch installed.

#### B. Assembly/Components Affected By This Notice:

Switch, Engine Fuel Filter Pressure Switch (P/N 369D28144-1, serial number 001 thru 261).

#### C. Reason: Replacement of the fuel filter pressure switch.

Failure to perform the requirements of this Bulletin, or performing the necessary procedures if an impending bypass condition has occurred, may result in a fuel filter by-pass condition without any warning indication which could result in loss of engine power. This condition may result in a precautionary/emergency landing situation.

Additionally, failure to perform the requirements of this Bulletin may result in the requirement to clean the entire engine fuel system due to suspected contamination from a potential bypass filter condition. The C20R/2 SP engine filter bowl has a mechanical impending bypass indicator along with the airframe installed fuel filter pressure switch to indicate fuel filter condition. If the engine filter bowl mechanical impending bypass indicator has been triggered, then the fuel system is suspect for contamination from possible filter bypass.

#### D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to replacing the fuel filter pressure switches, serial numbers 001 thru 261.

#### E. Time of Compliance:

The requirements of this Bulletin shall be accomplished at the next 100 hour inspection or no later than 31 July 1999.

#### F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

#### G. Manpower:

1.0 man-hours.

#### H. Interchangeability:

None

#### I. Material/Part Availability:

Contact MDHI Warranty and Repair Dept.

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**J. Warranty Policy:**

MDHI will provide replacement switches at no cost to the operator.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Switch, Engine Fuel Filter Pressure Switch	369D28144-3	1	MDHI

**K. Disposition of Parts Removed**

Return to MDHI

**L. Tooling:**

N/A

**M. Electrical Load Data:**

N/A

**N. Other Publications Affected:**

N/A

**O. Points of Contact**

For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 891-6342. DATAFAX: (480) 891-6782.

## 2. ACCOMPLISHMENT INSTRUCTIONS



Pressure switch is easily damaged. A slight shearing force applied to half of the pressure switch can cause leakage and/or operational failure. Always grip both halves of the pressure switch hex flats with wrench when loosening or torquing attaching hardware.

Pressure switches are not field repairable.

- (1). Per instructions contained in the Handbook of Maintenance Instructions (CSP-HMI-2, Section 28-00-00) replace 369D28144-1 fuel filter pressure switches with acceptable switches (serial number 262 and subsequent). **NOTE:** Serial number is ink stamped on switch. If unable to determine the serial number, replace the switch with one that is known outside of the affected serial number range.



**Air in the fuel system will cause a power reduction or flameout. Perform a fuel system vacuum leak check and system air bleed after opening fuel system to atmosphere and prior to releasing the helicopter for flight.**

- (2). Bleed fuel system per instructions contained in the Handbook of Maintenance Instructions (CSP-HMI-2, Section 28-00-00)
- (3). Record serial number of installed fuel filter pressure switch and compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

**MANDATORY**