



SERVICE BULLETIN

DATE: 20 AUGUST 1984
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*Supersedes Service Information Notice HN-189. dated 29 July 1983.

INSPECTION AND OVERHAUL OF FUEL SHUTOFF VALVE (PN 369A8104-3 OR 369A8104-5)

1. PLANNING INFORMATION

A. Models Affected:

All 500 Model 369H, 369HE, 369HM, and 369HS Series helicopters

B. Preface:

The activation groove in the fuel shutoff valve ball can become worn from heavy/drag in the valve. Information given in Part I of this Notice requires one-time inspection of the shutoff valve for proper operation, and placarding of the fuel shutoff control to leave the shutoff valve open except in emerge until Part II of this Notice is accomplished.

Part II lists procedures for overhaul of fuel shutoff valves (PN 369A8104-3 or -5). Compliance with Part II of this Notice removes the restrictions for using the fuel shutoff control imposed by Part I of this Notice.

C. Time of Compliance:

Part I of this Notice shall be accomplished within the next 25 hours of helicopter operation, from the date of this Notice.

Part II of this Notice shall be accomplished if the fuel shutoff valve does not open and close properly during the inspection required by Part I of this Notice, or within 6 months from the date of this Notice.

D. Reference:

Basic HMI (CSP-H-2), Reissued 15 September 1981.

Hughes Service Information Notice HN-185, dated 15 March 1983.

E. Weight and Balance Data:

Weight and balance not affected.

F. FAA Approval:

The resultant alteration to affected models as described by procedures given in Parts I and II of this Notice have been shown to comply with Federal Aviation Regulations and is FAA Approved.

2. PART I – FUEL SHUTOFF VALVE (PN 369A8104-5) INSPECTION

A. Tools and Equipment:

TOOLS AND EQUIPMENT	
Nomenclature	Source
Mirror	Commercial
Flashlight	Commercial

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B. PROCEDURE

- (1). Ensure all electrical power is off, battery is disconnected, and helicopter is electrically grounded.
- (2). Remove left fuel cell access door (Section 2, Basic HMI).

WARNING Follow all fuel handling safety precautions. Fuel vapors are highly flammable and can result in fire or explosion if exposed to sparks or open flame.

- (3). Disconnect powerplant fuel supply tube from fuel shutoff valve (Section 12, Basic HMI).
- (4). Ensure fuel shutoff valve control is pushed in. using mirror and flashlight, check ball in fuel shutoff valve to see that valve is fully open.
- (5). Pull fuel shutoff control on instrument panel full out. Use mirror to check that valve is completely closed.
- (6). Push fuel shutoff control in; check valve using mirror to see that valve is open and unobstructed.

WARNING If fuel shutoff valve does not open and close fully during the above checks, the valve must be overhauled per Part II of this Notice, or replaced prior to further flight.

- (7). Reattach powerplant fuel supply tube to fuel shutoff valve (Section 12, Basic HMI).
- (8). Reinstall left fuel cell access door (Section 2, Basic HMI).
- (9). Purge air from low pressure fuel filter housing (Hughes Notice HN-185).
- (10). Fabricate placard which reads, USE FUEL SHUTOFF VALVE IN EMERGENCY ONLY; attach placard to instrument panel where it can be easily seen by the pilot.
- (11). Record compliance with Part I of this Notice in Compliance Record of helicopter Log Book.

3. PART II – OVERHAUL OF FUEL SHUTOFF VALVE (PN 369A8104-5)

A. Parts/Supplies:

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Overhaul kit, Fuel shutoff valve	1595-1000 or 1688-1000	1	HHI

B. Tools and Equipment:

TOOLS AND EQUIPMENT	
Nomenclature	Source
Electric Pencil or equivalent	Commercial

C. PROCEDURE

- (1). Ensure all electrical power is off.

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WARNING When defueling helicopter, follow all fuel handling safety precautions. Ensure all electrical power is off; disconnect battery; and electrically ground helicopter. Open flames and sparks can cause fire or explosions.

- (2). Defuel helicopter if necessary (Section 2, Basic HMI).
- (3). Remove fuel shutoff valve from helicopter (Section 12, Basic HMI).
- (4). Overhaul fuel shutoff valve according to instructions in Fuel Shutoff Valve Overhaul Kit. Use PN 1688-1000 overhaul kit for 369A8104-3 valve or PN 1595-1000 overhaul kit for 369A8104-5 valve.
- (5). Using an electrical pencil or equivalent, add the letter "M" at the end of the Hughes Part No. on the valve body.
- (6). Reinstall overhauled valve in helicopter (Section 12, Basic HMI).

CAUTION Purge air from fuel system prior to next flight. Failure to purge air from fuel system can result in engine flame out. (Refer to Hughes Service Information Notice HN-185.)

- (7). Refuel helicopter (Section 2, Basic HMI).
- (8). Check fuel shutoff valve for leaks; check rigging and operation of fuel shutoff control. (Refer to Section 12, Basic HMI.)
- (9). Record compliance with Part II of this Notice in Compliance Record of helicopter Log Book.