



SERVICE BULLETIN

DATE: 29 JANUARY 1996

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MANDATORY

ANTI-TORQUE DIRECTIONAL CONTROL ACTUATOR REPLACEMENT

1. PLANNING INFORMATION:

A. Aircraft Affected:

McDonnell Douglas Helicopter Systems (MDHS) MD900 Helicopters, serial number 900-00010 thru 900-00024.

B. Assembly/Components Affected by this Notice:

900C3820041-103 Directional Control Actuator not marked with a blue dot on the underside of the actuator.

C. Reason:

It is suspected that a number of Directional Control Actuators may have an internal tolerance condition that causes degradation of an internal seal.

D. Description:

The Directional Control Actuator has a drilled internal passage that under a worst case tolerance condition causes an underlap condition in a sealing area that would ultimately result in abnormal internal leakage. Excessive internal leakage will cause reduction in hydraulic boost when applying right pedal. Left pedal operation is not affected by this condition. Therefore, MDHS is requiring operators to replace 900C3820041-103 Directional Control Actuators with a 900C3820041-105, or with specially inspected 900C3820041-103 actuators that are marked with a blue dot (see Figure 1).

E. FAA Approval:

The technical design aspects of this Service Bulletin have been shown to comply with Federal Regulations and are FAA Approved.

F. Manpower:

One person, four to eight hours (depending on experience).

G. Time of Compliance:

Operators shall comply with the requirements of this Service Bulletin within 100 flight hours of operation after receipt of an acceptable actuator or no later than 29 June 1996, whichever occurs first. Affected operators should contact MDHS immediately upon receipt of this Service Bulletin.

H. Material/Part Availability:

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Directional Control Actuator	900C3820041-105 or 900C3820041-103 with "blue dot" inspection identification	1	MDHS

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I. Warranty Policy:

MDHS will supply 900C3820041-105 Directional Control Actuators, or specially inspected 900C3820041-103 actuators identified with a blue dot, free of charge to operators of all affected aircraft. Contact MDHS Warranty and Repair Department for replacement actuators.

J. Tooling:

N/A.

K. Weight and Balance:

N/A.

L. Electrical Load Data:

N/A.

2. ACCOMPLISHMENT INSTRUCTIONS:

NOTE: Either Step 2.A or 2.B is acceptable to comply with the requirements of this Service Bulletin.

- (1). Per instructions in the Rotorcraft Maintenance Manual, replace the 900C3820041-103 actuator with a 900C3820041-105 actuator;

or,

Replace the 900C3820041-103 actuator with a unit that has been internally inspected at the manufacturer for sufficient seal overlap. **NOTE:** Inspected units are identified with a blue dot marking in the area shown in Figure 1.

3. DISPOSITION OF PARTS REMOVED:

- (1). All parts removed from service shall be returned to MDHS Warranty and Repair Department.

4. COMPLIANCE RECORD:

- (1). Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

5. POINTS OF CONTACT:

For further assistance, contact your local MDHS Field Service Representative (refer to the latest revision of the Business Development and Customer Support handbook for address and telephone numbers) or contact the Field Service Department at MDHS, Mesa Arizona. Telephone: 1-800-388-3378 or (602) 891-6342. DATAFAX: (602)891-6782. Warranty and Repair Department at MDHS: 602-891-8565 or datafax 602-891-8566.

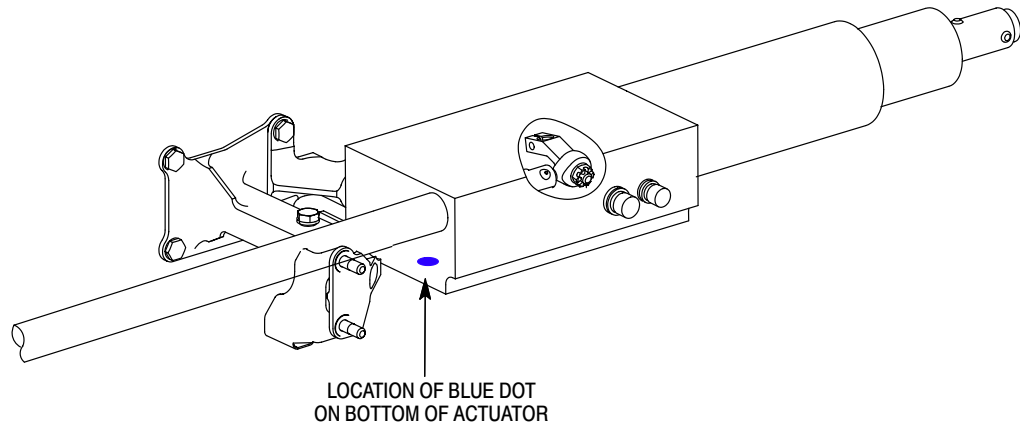
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Figure 1. Anti-Torque Directional Control Actuator Replacement.

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