



# SERVICE BULLETIN

DATE: 3 JANUARY 1997

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\* Supersedes Service Bulletin SB900-021, dated 25 April 1996.

## ENDPLATE SPAR TUBE (VERTICAL STABILIZER) GREASING PROCEDURE

### 1. PLANNING INFORMATION:

#### A. Aircraft Affected:

All McDonnell Douglas Helicopter Systems (MDHS) MD900 helicopters, serial number 900-00010 thru 900-00051.

#### B. Assembly/Components Affected by this Notice:

Empennage Build-Up Assembly (P/N 90001340102).

#### C. Reason:

To prevent possible binding of the empennage controls during operation of the helicopter which may result in reduced yaw stability.

#### D. Description:

PART A of this Bulletin provides owners and operators with a procedure to add lubricant to the horizontal endplate spar tube journal bearings.

PART B of this Bulletin provides owners and operators with a procedure to replace the LH and RH 900F2341712-101 VSCS bellcrank assemblies with 900FP341722 VSCS bellcrank assemblies. Replacement of these bellcranks removes the requirement to add lubricant to the horizontal endplate spar tube journal bearings.

#### E. FAA Approval:

The technical design aspects of this Service Bulletin are FAA Approved.

#### F. Manpower:

PART A or PART B; four and one half (4.5) man-hours.

#### G. Time of Compliance:

PART A requirements of this Bulletin shall be accomplished within the next 50 hours of helicopter operation or sooner for those operators who are presently experiencing roughness in vertical stabilization control system (VSCS) performance. Repeat PART A whenever VSCS stabilizer roughness or binding operation is experienced.

PART B requirements of this Bulletin shall be accomplished at the next 100-hour inspection or no later than 30 June 1997.

#### H. Interchangeability:

None.

#### I. Material/Part Availability:

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Lubricant (Grease)	MIL-G-23827	A/R	Commercial
Isopropyl Alcohol		A/R	Commercial

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REPLACEMENT PARTS/SUPPLIES (Cont.)			
Nomenclature	Part No.	Qty.	Source
Bellcrank Assemblies	900FP341722	2	MDHS
Sealing Compound	MIL-S-8802 type 1, Class B 1/2	A/R	Commercial
Release Agent	REN RP 79-2	A/R	Commercial

**J. Warranty Policy:**

MDHS will provide all parts required to accomplish this aircraft modification at no charge to the operator. Contact the MDHS Warranty and Repair Department.

**K. Tooling:**

N/A

**L. Weight and Balance:**

N/A

**M. Electrical Load Data:**

N/A

**N. Other Publications Affected:**

Rotorcraft Maintenance Manual (CSP-900RMM-2 and -3), Wiring Manual (CSP-900WIR-8), and Illustrated Parts List (CSP-900IPL-4).

**2. ACCOMPLISHMENT INSTRUCTIONS:**

**A. PART A - GREASING PROCEDURE**

(Ref. Figure 1)

- (1). Remove spar tubes per instructions contained in the Rotorcraft Maintenance Manual (CSP-900RMM-2; Spar Tube Assembly Removal).

**WARNING: Isopropyl Alcohol**



- (2). If required, remove any scratches using 600 grit paper on the spar to bushing surfaces. Clean any debris using a clean cloth and isopropyl alcohol.
- (3). Liberally apply lubricant (MIL-G-23827) to inner surface and flange surface of journal bearings as shown in Figure 1.
- (4). Reinstall spar tubes per Rotorcraft Maintenance Manual (CSP-900RMM-2; Spar Tube Assembly Installation).

**B. PART B - BELLCRANK REPLACEMENT**

- (1). Remove spar tubes per instructions contained in the Rotorcraft Maintenance Manual (CSP-900RMM-2; Spar Tube Assembly Removal).

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**MANDATORY MANDATORY MANDATORY****WARNING****Isopropyl Alcohol**

- (2). Remove grease from the horizontal endplate spar tube journal bearings using a clean cloth and isopropyl alcohol. Do not re-apply grease at re-assembly.
- (3). If required, remove any scratches using 600 grit paper on the spar to bushing surfaces. Clean any debris using a clean cloth and isopropyl alcohol.

**WARNING****Fluorocarbon Release Agent**

- (4). Coat spar tube at bellcrank attach point with releasing agent and allow to dry.

**WARNING****Sealing Compound**

- (5). Coat inside of Bellcrank half of assembly with sealing compound. Do not allow compound to come in contact with spar tube flange bearings.
- (6). Reinstall spar tubes, using the new 900FP341722 bellcranks, per Rotorcraft Maintenance Manual (CSP-900RMM-2; Spar Tube Assembly Installation).

**3. DISPOSITION OF PARTS REMOVED:**

Return removed parts to Commercial Warranty and Repair within five days of removal.

**4. COMPLIANCE RECORD:**

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.

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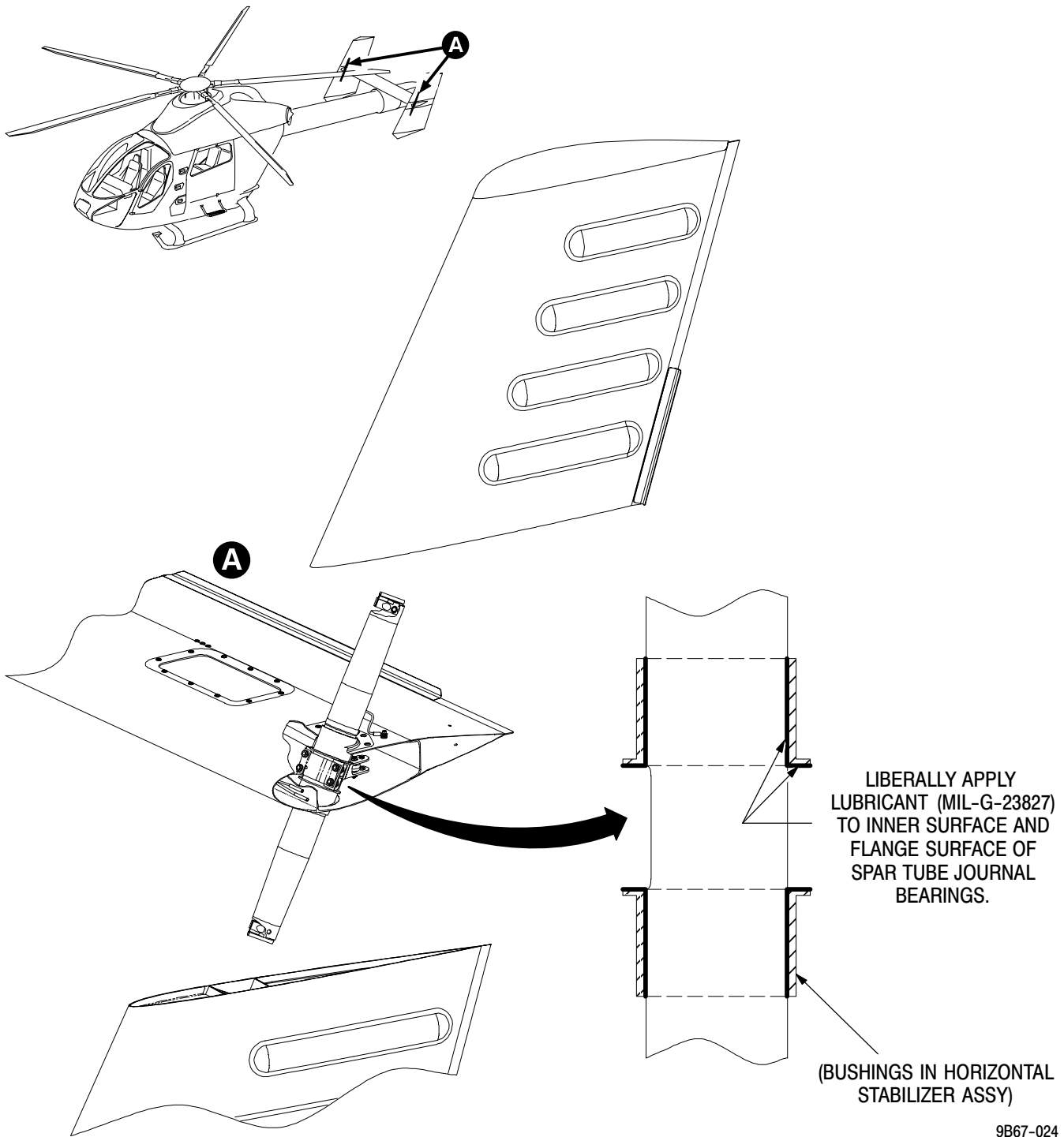


Figure 1. Vertical Fin Greasing Procedure

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