



# SERVICE BULLETIN

DATE: 19 MARCH 2002

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\* Supersedes Service Bulletin SB900-079, dated 30 March 2001. Revised to extend the Time of Compliance for replacement.

## MECHANICAL ENGINE CONTROLS – ONE TIME INSPECTION AND REPLACEMENT OF PILOT AND COPILOT COLLECTIVE STICKS

### 1. PLANNING INFORMATION

#### A. Aircraft Affected:

MD900 helicopters, serial number 900-00008 and 900-00010 thru 900-00087.

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

Pilot Collective Stick Assembly (P/N 900C3010008-105, -107, -109), Copilot Collective Stick Assembly (P/N 900C3010007-107, -109, -111).

#### C. Reason:

There is the possibility that an idler gear, located in the mechanical engine control twist grip portion of the pilot and copilot collective sticks, may not have an interference fit and may become loose.

Failure to comply with this Bulletin could result in loss of manual control of engine speed during an Electronic Engine Control (EEC) failure.

#### D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to inspection of the mechanical engine controls and replacement of pilot and copilot collective control sticks.

#### E. Time of Compliance

Service Bulletin SB900-063 must be complied with prior to accomplishing this Bulletin. The inspection requirements of this Bulletin shall be accomplished within the next 25 hours of helicopter operation or 30 days, whichever occurs first, after receipt of this Bulletin. Replacement of the pilot and copilot collective sticks shall be accomplished no later than 20 November 2002.

#### F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

#### G. Manpower:

Inspection: 0.2 man hours.  
Replace Pilot and Copilot Collective Stick Assemblies: 10.0 man hours.

#### H. Interchangeability:

None.

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## I. Material/Part Availability:

Contact MDHI Warranty/Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Collective Stick Assy, Pilot	900C3010008-111	1	MDHI
Collective Stick Assy, Copilot	900C3010007-113	1	MDHI

## J. Warranty Policy:

MDHI Warranty and Repair Department will provide acceptable replacement collective stick assemblies at no cost to the operator. The replacement parts will be covered by the MDHI new part warranty. MDHI will also credit those affected operators with 10 hours of labor warranty (spares credit) for replacement of the pilot and copilot collective stick assemblies. Operators must return affected pilot and copilot collective stick assemblies with a completed Service and Operations Report (SOR) form to MDHI Warranty and Repair Department within five days of removal in order to receive credit for replacement and labor allowance credit.

## 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).

## 2. ACCOMPLISHMENT INSTRUCTIONS

**NOTE:** The following inspection procedure applies to both pilot and copilot collective stick assemblies.

### A. Inspection Procedure

- (1). Apply external power (Ref. (Ref. CSP-900RMM-2, Section 96-00-00).
- (2). Perform IIDS panel operational test (Ref. CSP-900RMM-3, Section 95-30-00).
- (3). Verify collective twist grips are in the **NORMAL** position.

### **WARNING**

**Do not move the rotary switch on the ENGINE CONTROL panel from the OFF position as this could initiate an engine start.**

- (4). On IIDS primary panel, observe that there are no EEC faults illuminated on the alphanumeric display that would indicate that the EEC is off-line and not in command of its engine control functions.

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- (5). Rotate pilot's #1 engine twist grip out of **NORMAL** position to confirm that the detent module will disengage the EEC to the manual controls. Observe that **EEC MAN** caution light illuminates on IIDS primary display.
- (6). Depress **EEC RESET** until **EEC MAN** blinks on IIDS panel. Rotate the pilot's collective twist grip back to **NORMAL** position and verify that detent engages and **EEC MAN** light extinguishes.
- (7). Repeat steps (5) and (6) for pilot's #2 engine collective twist grip.
- (8). Repeat steps (5) through (7) for copilot's collective twist grips.
- (9). If inspection of either collective stick is not successfully completed, remove and replace both collective stick assemblies before next flight (Ref. CSP-900RMM-2, Section 67-10-00, Collective Control Stick Assembly, Pilot or Collective Control Stick Assembly, Copilot).
- (10). If inspection of both collective sticks is successfully completed, remove and replace both collective stick assemblies within the time limit specified in paragraph 1.E., Time of Compliance. (Ref. CSP-900RMM-2, Section 67-10-00, Collective Control Stick Assembly, Pilot or Collective Control Stick Assembly, Copilot.)

### **3. DISPOSITION OF PARTS REMOVED**

Return with completed SOR to MDHI Warranty and Repair Department for disposition.

### **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 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) 346-6387. DATAFAX: (480) 346-6813.

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