



# SERVICE BULLETIN

DATE: 04 MAY 1996

PAGE 1 OF 3

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**

## SWASHPLATE BEARING, ONE-TIME INSPECTION

### 1. PLANNING INFORMATION:

#### **A. Aircraft Affected:**

McDonnell Douglas Helicopter Systems (MDHS) MD900 helicopters, serial number 00010 thru 00036.

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

Angular Contact-M/R Swashplate Ball Bearing (P/N 900C3010100-101) contained in the Swashplate Assembly (P/N 900C1010004-115 & -117).

#### **C. Reason:**

Due to possible occurrence of an adverse combination of detail part dimensional tolerances, a potential for internal interference within the main rotor swashplate exists. This condition, if it occurred, could result in high vibration and possible delayed or degraded response to cyclic control inputs.

#### **D. Description:**

Procedures in this Bulletin provide owners and operators with a requirement for a one-time concentricity and dimensional inspection of the main rotor swashplate bearing assembly performed at their facility by MDHS personnel.

#### **E. Manpower:**

Personnel to perform the inspection of the swashplate bearing will be provided by MDHS with assistance of local maintenance personnel.

#### **F. Time of Compliance:**

The requirements of this Bulletin shall be accomplished before the main rotor swashplate has been in operation 250 hours. Aircraft equipped with swashplate assemblies that have greater than 250 hours of operation shall accomplish this Bulletin within the next ten (10) flight hours.

#### **G. Interchangeability:**

None

#### **H. Material/Part Availability:**

Contact MDHS Field Service Dept.  
Anti-seize compound: Loctite Anti-seize thread compound 767 (MIL-A-907-E)

#### **I. Warranty Policy:**

MDHS Commercial Warranty and Repair Department will provide acceptable replacement parts at no cost to the operator. The replacement parts will be covered by the MDHS new part warranty. MDHS will also credit those affected operators with six (6) hours of labor warranty (spares credit) for removal and reinstallation of main rotor and swashplate assemblies. Return affected parts to Commercial Warranty and Repair within five days of removal.

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**



DATE: 04 MAY 1996  
PAGE 2 OF 3

# SERVICE BULLETIN

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///

## **J. Tooling:**

Any special tooling will be provided by MDHS.

## **K. Weight and Balance:**

N/A

## **L. Electrical Load Data:**

N/A

## **M. Other Publications Affected:**

N/A.

## **2. ACCOMPLISHMENT INSTRUCTIONS:**

- (1). Contact MDHS Field Service Department (Mesa) to schedule inspection by MDHS personnel of the main rotor swashplate assembly.
- (2). Remove main rotor swashplate assembly from the helicopter (Ref. CSP-900RMM-2, Section 62-30-00).
- (3). MDHS personnel to disassemble swashplate (Ref. CSP-900RMM-2, Section 62-30-00) as needed to inspect per MRC inspection criteria and re-identify acceptable bearing assembly.
- (4). Reassemble swashplate (Ref. CSP-900RMM-2, Section 62-30-00) using anti-seize compound 767 in place of primer.

**NOTE:** Anti-seize compound is to be applied between the non-rotating swashplate and the bearing. If the angular ball bearing has been removed, anti-seize must also be applied between the bearing and the rotating swashplate.

- (5). Install main rotor swashplate onto helicopter (Ref. CSP-900RMM-2, Section 62-30-00).

## **3. IDENTIFICATION:**

Identify all acceptable bearings with an "X" located on one end of the outer race prior to MDHS bearing part number 900C3010100-101 (Sample: "X"900C3010100-101). If the angular ball bearing has been removed then an "X" must be applied to both ends of the bearing. "X" to be applied using a Dremel or equivalent tool.

**NOTE:** Tool must be equipped with a fine carbide tip. Identify swashplate assembly with a blue dot 0.125 inch min. dia. Blue dot to be permanently marked and located adjacent to main rotor swashplate part number (900C1010004).

## **4. DISPOSITION OF PARTS REMOVED:**

Return to MDHS.

## **5. COMPLIANCE RECORD:**

Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///



# SERVICE BULLETIN

DATE: 04 MAY 1996

PAGE 3 OF 3

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**

## 6. 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.

**/// MANDATORY ////////////////////////////////////// MANDATORY ////////////////////////////////////// MANDATORY ///**