



# SERVICE BULLETIN

DATE: 10 MAY 1999  
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**MANDATORY**

\* Supersedes SB900-058R1 dated 06 July 1998. Revision 2 corrected life limit typing error and added SB900-058R2 as an Alternative Method of Compliance for FAA AD 99-05-08.

## LIFE LIMIT ON ANTI-TORQUE FAN ASSEMBLY, TENSION-TORSION STRAPS AND PITCH PLATE ASSEMBLY AND SERIALIZATION OF PITCH PLATE ASSEMBLIES

### 1. PLANNING INFORMATION:

#### A. Aircraft Affected:

All McDonnell Douglas Helicopter Systems (MDHS) MD900 Series Helicopters, serial numbers 900-00002 thru 900-00057.

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

Tension-Torsion Strap Assembly, Fan Blade - NOTAR® (P/N 500N5311-5 and/or 900R3442009-101) and Pitch Plate Assembly, NOTAR® (P/N 900R2443000-105).

#### C. Time of Compliance:

The requirements of this Bulletin shall be accomplished at the next 600 hour fan bearing regrease, the next time the fan straps and/or pitch plate assembly are accessed for any type of maintenance, no later than 31 January 1999, or as specified in FAA AD 99-05-08.

#### D. Reason:

The life limit of the 900R2443000-105 Pitch Plate Assembly is reduced from 10,000 hours to 3,527 hours.

The anti-torque fan blade tension-torsion strap assemblies and pitch plate assemblies have been added to the limited-life parts list. This requires a serial number to be added to the pitch plate assembly. The tension-torsion straps currently are identified with a serial number. However, a component record card must be created for tension-torsion strap assemblies affected by this Bulletin and kept in the helicopter log book. Failure to comply with the requirements of this Bulletin may result in parts remaining in service after their life-limit expires which could cause fatigue failure of the subject parts.

#### **NOTE**

Refer to Rotorcraft Maintenance Manual (CSP-900RMM-2, Section 04-00-00) Reissue 1, Revision 2 or later for the current life-limited time of the affected parts.

#### E. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to the reduction of the life limit reduction for the pitch plate assembly, applying serial numbers to specific components in those helicopters listed above, and recording those serial numbers in the helicopter log book.

#### F. FAA Approval:

The technical design aspects of this Service Bulletin are FAA Approved. This Service Bulletin is approved and serves as an Alternative Method of Compliance to FAA AD 99-05-08 para (b)(1).

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**G. Manpower:**

0.5 man-hours when accomplished in conjunction with the fan bearing regrease operation.

**H. Interchangeability:**

None

**I. Material/Part Availability:**

Contact MDHS Warranty and Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Lacquer, Clear (Aluminum Clad Alloy Surfaces)	MIL-L-6066	A/R	MDHS or Commercial

**J. Warranty Policy:**

N/A

**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, Section 04-00-00).

**2. ACCOMPLISHMENT INSTRUCTIONS:**



500N5311-5 tension-torsion straps previously installed on MD900 helicopters are life-limited to the MD900 life-limit when installed on MD500N series helicopters (refer to CSP-900RMM-2, Section 04-00-00, Reissue 1, Revision 2 or later for life-limit).

- (1). Apply the serial numbers listed below to the pitch plate assemblies as follows:
  - (a). Apply serial numbers adjacent to the part numbers, using permanent ink or paint.
  - (b). When dry, apply a clear coat over the serial number.
- (2). Record Compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book and create item Component Record cards for serialized pitch plate assemblies and tension-torsion straps.

**POINTS OF CONTACT:**

For further assistance, contact your local MDHS Field Service Representative (refer to the "At Your Service" 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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Serial/Part Numbers To Be Applied	
Aircraft Ser. No.	Pitch Plate Assembly 900R2443000-105
0002	009999-0001
0008	009999-0002
0010	009999-0003
0011	009999-0004
0012	009999-0005
0013	009999-0006
0014	009999-0007
0015	009999-0008
0016	009999-0009
0017	009999-0010
0018	009999-0011
0019	009999-0012
0020	009999-0013
0021	009999-0014
0022	009999-0015
0023	009999-0016
0024	009999-0017
0025	009999-0018
0026	009999-0019
0027	009999-0020
0028	009999-0021
0029	009999-0022
0030	009999-0023
0031	009999-0024
0032	009999-0025
0033	009999-0026
0034	009999-0027
0035	009999-0028
0036	009999-0029

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Serial/Part Numbers To Be Applied (Cont.)	
Aircraft Ser. No.	Pitch Plate Assembly 900R2443000-105
0037	009999-0030
0038	009999-0031
0039	009999-0032
0040	009999-0033
0041	009999-0034
0042	009999-0035
0043	009999-0036
0044	009999-0037
0045	009999-0038
0046	009999-0039
0047	009999-0040
0048	009999-0041
0049	009999-0042
0050	009999-0043
0051	009999-0044
0052	009999-0045
0053	009999-0046
0054	009999-0047
0055	009999-0048
0056	009999-0049
0057	009999-0050

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