



# SERVICE BULLETIN

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\* Supersedes Service Bulletin SB900-048, dated 25 February 1997.

## GRADIENT SPRING ASSEMBLIES REPLACEMENT

### 1. RETROFIT INFORMATION:

#### A. Aircraft Affected:

All MD900 Series Helicopters, serial numbers 900-00002 thru 900-00051.

#### B. Assembly/Components Affected:

Logitudinal and Lateral Gradient Spring Assemblies, early configuration P/N 900C6010039-105, -107 and 900C6010040-105, -107.

#### C. Time of Compliance:

Operators must comply with the requirements of this Bulletin as fielded spring assemblies reach their life limit or no later than 30 November 1998.

#### D. Reason:

Redesigned improved spring assemblies (P/N 900C3010081-101 and 900C3010082-101) have been certified to replace the existing gradient springs. The improved design spring assemblies have a substantially longer life limit than the early configuration spring assemblies (refer to CSP-900RMM-2, Section 04-00-00, for actual life limits). Failure to comply with the requirements of this Bulletin may cause friction and eventual binding in the cyclic controls.

#### E. Description:

This Bulletin provides operators instructions to replace the early configuration longitudinal and lateral gradient spring assemblies.

#### F. FAA Approval:

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

#### G. Material/Part Availability:

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Gradient Spring Assembly, Longitudinal	900C3010081-101	1	MDHS
Gradient Spring Assembly, Lateral	900C3010082-101	1	MDHS

#### H. Warranty Policy:

N/A

#### I. Tooling:

No special tooling required.

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**J. Weight and Balance:**

N/A

**K. Electrical Load Data:**

N/A

**L. Other Publications Affected:**

The following publications are being modified as a result of this Service Bulletin: Rotorcraft Maintenance Manual (CSP-900RMM-2) and Illustrated Parts List (CSP-900IPL-4).

**2. ACCOMPLISHMENT INSTRUCTIONS:**

- (1). Remove 900C6010039-105 or -107 and 900C6010040-105 or -107 lateral and longitudinal gradient spring assemblies per instructions contained in the Rotorcraft Maintenance Manual (CSP-900RMM-2, Section 67-10-00).
- (2). Install 900C3010082-101 and 900C3010081-101 lateral and longitudinal gradient spring assemblies per instructions contained in the Rotorcraft Maintenance Manual (CSP-900RMM-2, Section 67-10-00).

**3. DISPOSITION OF PARTS REMOVED:**

Return removed parts to MDHS Commercial Warranty and Repair Department 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 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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