



SERVICE BULLETIN

DATE: 04 DECEMBER 2000
PAGE 1 OF 6

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

* Supersedes SB900-076, dated 30 August 2000. Revision 1 adds a reference to the Rotorcraft Maintenance Manual for allowable tolerances and repair of the main rotor static mast. Aircraft which have complied with SB900-076 meet the intent of this revision.

INSPECTION AND REWORK OF MAIN ROTOR SUPPORT STATIC MAST

1. PLANNING INFORMATION:

A. Aircraft Affected:

MD-900 helicopters, serial number 900-00008 thru 900-00059.

B. Assembly/Components Affected By This Bulletin:

Mast Support Base Assembly 900F1401010-103, Main Rotor Support Static Mast 900F2401021-101.

C. Reason:

Some MD-900 helicopters have an unpainted main rotor support static mast.

Failure to comply with instructions in this bulletin could result in corrosion forming on the main rotor support static mast, requiring replacement of the mast.

D. Description:

Procedures in this Bulletin provide owners and operators with information to inspect the main rotor support static mast for evidence of paint and, if necessary, rework the main rotor support static mast to remove corrosion and apply paint.

E. Time of Compliance:

The requirements of this bulletin shall be accomplished as follows:

- Inspection within the next 25 flight hours after receipt of this service bulletin.
- Reinspect at 100 hour intervals until mast is reworked.
- Rework mast no later than 31 December 2000.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

G. Manpower:

Accomplishment of this bulletin will require approximately 5 man-hours.

H. Interchangeability:

None

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

DATE: 04 DECEMBER 2000

PAGE 2 OF 6

SERVICE BULLETIN

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

I. Material/Part Availability:

Contact MDHI Parts Sales Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Pad, Scouring, Cellulose/Nylon	Scotch Brite-63	AR	3M Company 3M Center St. Paul, MN 55144-1000 (612) 733-1110
Solvent: Alcohol, Isopropyl or Acetone or Cleaner	O-A-51	AR	Commercial
	Desoclean 45	AR	Commercial
		AR	DeSoto Aerospace Coatings, Inc. 1608 Fourth Street Berkeley, CA 94710
Primer, Epoxy	MIL-P-85582, T1, C2 or MIL-P-23377, T1, Class C (MRM012202)	AR	Deft Inc. 17451 Von Karman Ave Irvine, CA 92714 (714) 474-0400
Finish Enamel, White #17925	HMS15-1100	AR	MDHI
Cadmium plate (brush-on)	QQ-P-416 Type II, Class 2	AR	Commercial
Sealing Compound	HMS16-1097, Type I MIL-S-8802	AR	Coast Proseal Compton, CA

J. Warranty Policy:

Contact MDHI warranty administrator if parts are found to be unserviceable.

K. Tooling:

N/A

L. Weight and Balance:

N/A

M. Electrical Load Data:

N/A

N. Other Publications Affected:

N/A

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

SERVICE BULLETIN

DATE: 04 DECEMBER 2000

PAGE 3 OF 6

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

2. ACCOMPLISHMENT INSTRUCTIONS:

A. Inspection Instructions

- (1). Check main rotor support static mast for white paint below main rotor hub.
- (2). If main rotor support static mast is not painted white below main rotor hub, accomplish rework instructions below. If main rotor support static mast is painted white below main rotor hub, no rework is required.

B. Rework Instructions

(Ref. Figure 1)

- (1). Prepare mast support base assembly for rework.
 - (a). **Preferred Method:** Remove mast support base assembly (Ref. CSP-900RMM-2, Section 63-30-00, Static Mast Removal).
 - (b). **Alternate Method:** Access mast support base assembly as follows:
 - 1). Remove main rotor hub assembly (Ref. CSP-900RMM-2, Section 62-20-00, Main Rotor Hub Assembly Removal).
 - 2). Remove swashplate assembly (Ref. CSP-900RMM-2, Section 62-30-00, Swashplate Assembly Removal).
 - 3). Remove mixer links (Ref. CSP-900RMM-2, Section 62-30-00).
 - 4). Ensure that all areas of helicopter not being reworked are protected from contact with chemicals and paint over spray.
- (2). Inspect main rotor support static mast for corrosion.
- (3). If no corrosion is found, paint main rotor support static mast per step (6) below.
- (4). If corrosion that penetrates to base material (red or dark brown in color) is found, refer to the Rotorcraft Maintenance Manual for allowable tolerances and repair instructions (Ref. CSP-900RMM-2, Section 63-30-00, Main Rotor Static Mast Repair).
- (5). If corrosion is repaired per the Rotorcraft Maintenance Manual or if corrosion that does not penetrate to base material (white in color) is found, rework main rotor support static mast as follows:

WARNING

Chemicals used for cleaning are explosive, flammable and highly poisonous. Wear protective clothing and guards when working with cleaning materials. Always ensure maximum ventilation when using solvents and cleaning solutions. Accidental breathing of vapors can cause dizziness and nausea. If cleaning solution contacts skin, rinse immediately with water. If cleaning solution contacts eyes, flush with water and seek medical aid.

- (a). Clean main rotor support static mast with solvent.
 - (b). Remove corrosion using scouring pad, being careful not to remove plating.
 - (c). If original cad plating was removed during corrosion removal, touch up cad plating using brush-on method per manufacturer's instructions.
- (6). Paint main rotor support static mast.

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

DATE: 04 DECEMBER 2000
PAGE 4 OF 6

SERVICE BULLETIN

MANDATORY

- (a). Remove fillet seal from interface of mast and mast base.

WARNING

Chemicals used for cleaning are explosive, flammable and highly poisonous. Wear protective clothing and guards when working with cleaning materials. Always ensure maximum ventilation when using solvents and cleaning solutions. Accidental breathing of vapors can cause dizziness and nausea. If cleaning solution contacts skin, rinse immediately with water. If cleaning solution contacts eyes, flush with water and seek medical aid.

- (b). Clean areas to be painted using clean white cotton wiping cloths dampened with solvent.
- (c). After cleaning, wipe surface with additional clean white cotton wiping cloths before solvent evaporates. Repeat until wiping cloths are clean after wiping.
- (d). Allow main rotor support static mast to air dry for 15 minutes minimum before applying primer.
- (e). Mask off repair area, including data plate.

WARNING

Epoxy primer and finish enamel are flammable and toxic to eyes, skin and respiratory tract. Skin and eye protection are required. Avoid repeated or prolonged contact. Good general ventilation is normally adequate.

- (f). Apply primer per manufacturer's instructions to areas indicated on main rotor support static mast to dry film thickness of 0.0006 to 0.0010 inch (0.015 to 0.025 mm). Air dry for one hour minimum before applying finish enamel.
- (g). Apply finish enamel to primed areas per manufacturer's instructions to dry film thickness of 0.0017 to 0.0025 inch (0.043 to 0.063 mm). Air dry for eight hours minimum.
- (h). Fillet seal interface of mast and mast base with sealing compound per manufacturer's instructions.
- (7). Install mast support base assembly or components according to preparation method used.
- (a). **Preferred Method:** Install mast support base assembly (Ref. CSP-900RMM-2, Section 63-30-00, Static Mast Installation).
- (b). **Alternate Method:** Install components as follows:
- 1). Mixer links (Ref. CSP-900RMM-2, Section 62-30-00).
 - 2). Swashplate assembly (Ref. CSP-900RMM-2, Section 62-30-00, Swashplate Assembly Installation).
 - 3). Main rotor hub assembly (Ref. CSP-900RMM-2, Section 62-20-00, Main Rotor Hub Assembly Installation).

3. DISPOSITION OF PARTS REMOVED:

Return to MDHI.

4. COMPLIANCE RECORD:

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

MANDATORY



SERVICE BULLETIN

DATE: 04 DECEMBER 2000

PAGE 5 OF 6

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

5. POINTS OF CONTACT:

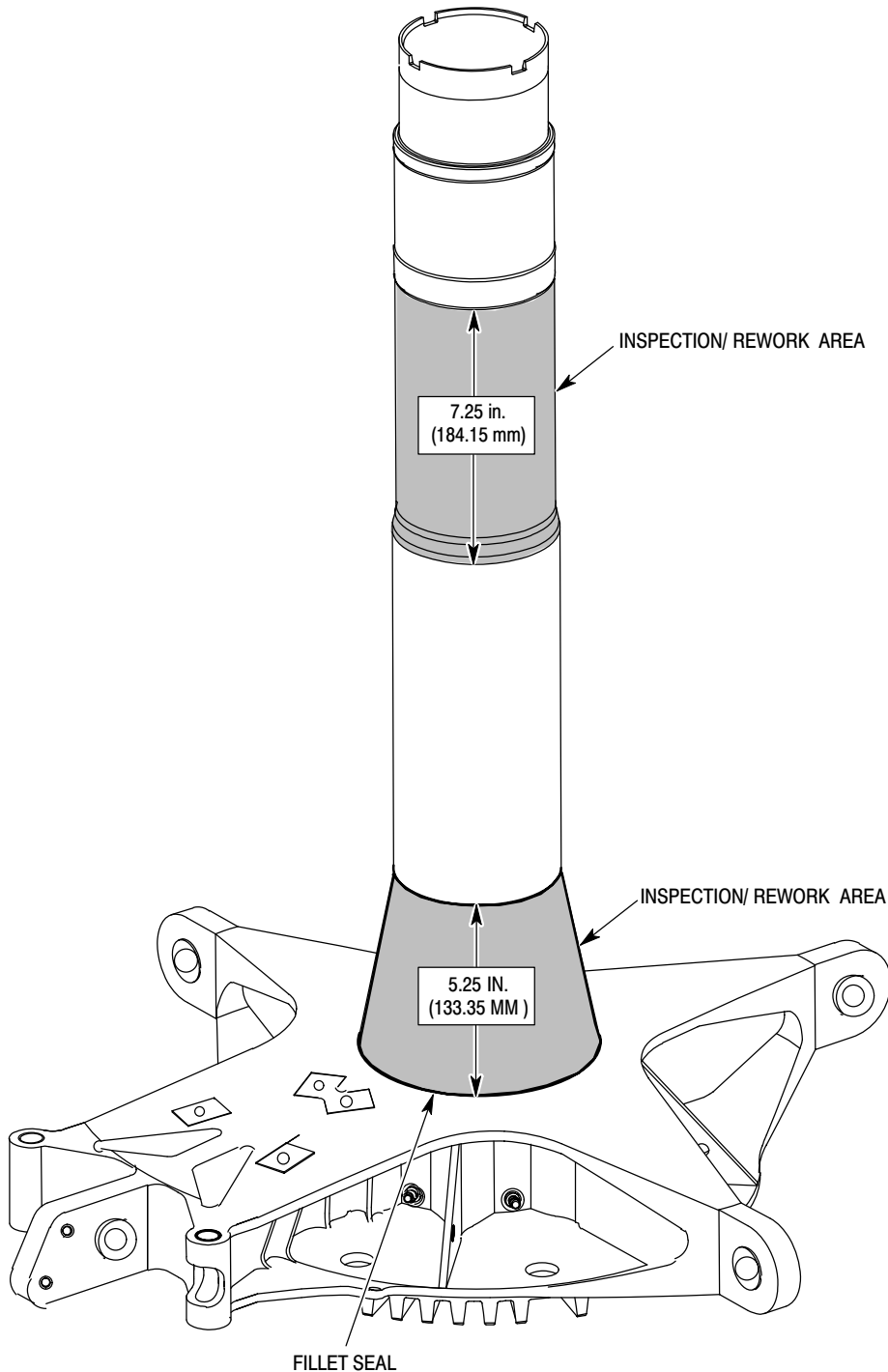
For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 346-6387. DATAFAX: (480) 346-6813.

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

DATE: 04 DECEMBER 2000
PAGE 6 OF 6

SERVICE BULLETIN

MANDATORY MANDATORY MANDATORY



9B63-160

Figure 1. Main Rotor Support Static Mast

Copyright 1999 by MD Helicopters Inc. This document may be reproduced and distributed provided no fee is charged, the text is not modified, and this copyright notice is included.

MANDATORY MANDATORY MANDATORY