



SERVICE BULLETIN

DATE: 3 MAY 2004

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FORWARD AND CENTER THRUSTER CONTROL CABLE ASSEMBLIES CONNECTOR ONE TIME INSPECTION

1. PLANNING INFORMATION

A. Aircraft Affected:

Model 500N helicopters, serial number LN001 thru LN099
Model 600N helicopters, serial number RN003 thru RN068.

B. Assembly/Components Affected By This Bulletin:

Cable Assembly, Forward, 500N and 600N (P/N 500N7201-55)
Cable Assembly, Center, 500N (P/N 500N7201-57)
Cable Assembly, Center, 600N (P/N 500N7201-59)

C. Reason:

A fractured inner female connector on a forward thruster control cable assembly, due to stress corrosion cracking, has been reported.

Failure to comply with this Service Bulletin may result in a fixed thruster and loss of normal anti-torque directional control of the helicopter.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to a one time inspection of the connectors on the forward and center thruster control cable assemblies.

E. FAA Approval:

The design engineering aspects of this bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

F. Manpower:

1.0 man-hour.

G. Time of Compliance:

Shall be accomplished within the next 10 flight hours or 30 days after the issue date of this Bulletin, whichever occurs first.

H. Interchangeability:

N/A

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I. Material/Part Availability:

Contact MDHI Parts Sales Dept.

PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Cable Assembly, Forward (500N and 600N)	500N7201-55	1	MDHI
Cable Assembly, Center (500N)	500N7201-57	1	MDHI
Cable Assembly, Center (600N)	500N7201-59	1	MDHI

J. Warranty:

Standard warranty applies.

K. Tooling:

N/A

L. Weight and Balance Data:

Weight and balance not affected.

M. Electrical Load Data:

N/A

N. Other Publications Affected:

Basic Handbook of Maintenance Instructions (CSP-HMI-2).

2. ACCOMPLISHMENT INSTRUCTIONS

A. Cable Inner Connector Inspection

(Ref. Figure 1)

- (1). Remove tailboom fairing.
- (2). Turn cable outside collar counter-clockwise and back to expose the inner cable.
- (3). Apply sufficient right pedal to expose inner cables.
- (4). Without bending cable, slide male connector out of female connector.
- (5). Inspect cable inner connectors.

NOTE: Connectors may be lightly cleaned with Scotchbrite to remove surface corrosion prior to inspection.

- (a). Move inner cables as required to fully expose inner connectors.
- (b). Using a bright light and 10x magnifying glass, inspect male and female connectors for corrosion pitting and cracking.

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- (c). If corrosion pitting or cracking is found, replace forward and/or center cable assemblies (Ref. CSP-HMI-2, Section 67-20-30, Forward Cable Assembly Replacement and/or Center Cable Assembly Replacement).
- (6). Reconnect forward and center control cable couplings.

WARNING

Failure to properly connect thruster cables could result in uncoupling during flight and loss of anti-torque authority.

- (a). Apply sufficient right pedal to expose inner cables.
 - (b). Without bending cable, insert inner male connector into inner female connector and ensure they are properly engaged together.
 - (c). Slide outside cable collar over forward cable to engage locking device and turn clockwise until fully locked.
- (7). Reinstall tailboom fairing.

3. IDENTIFICATION:

N/A

4. DISPOSITION OF PARTS REMOVED:

Return to MDHI.

5. COMPLIANCE RECORD:

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

6. POINTS OF CONTACT

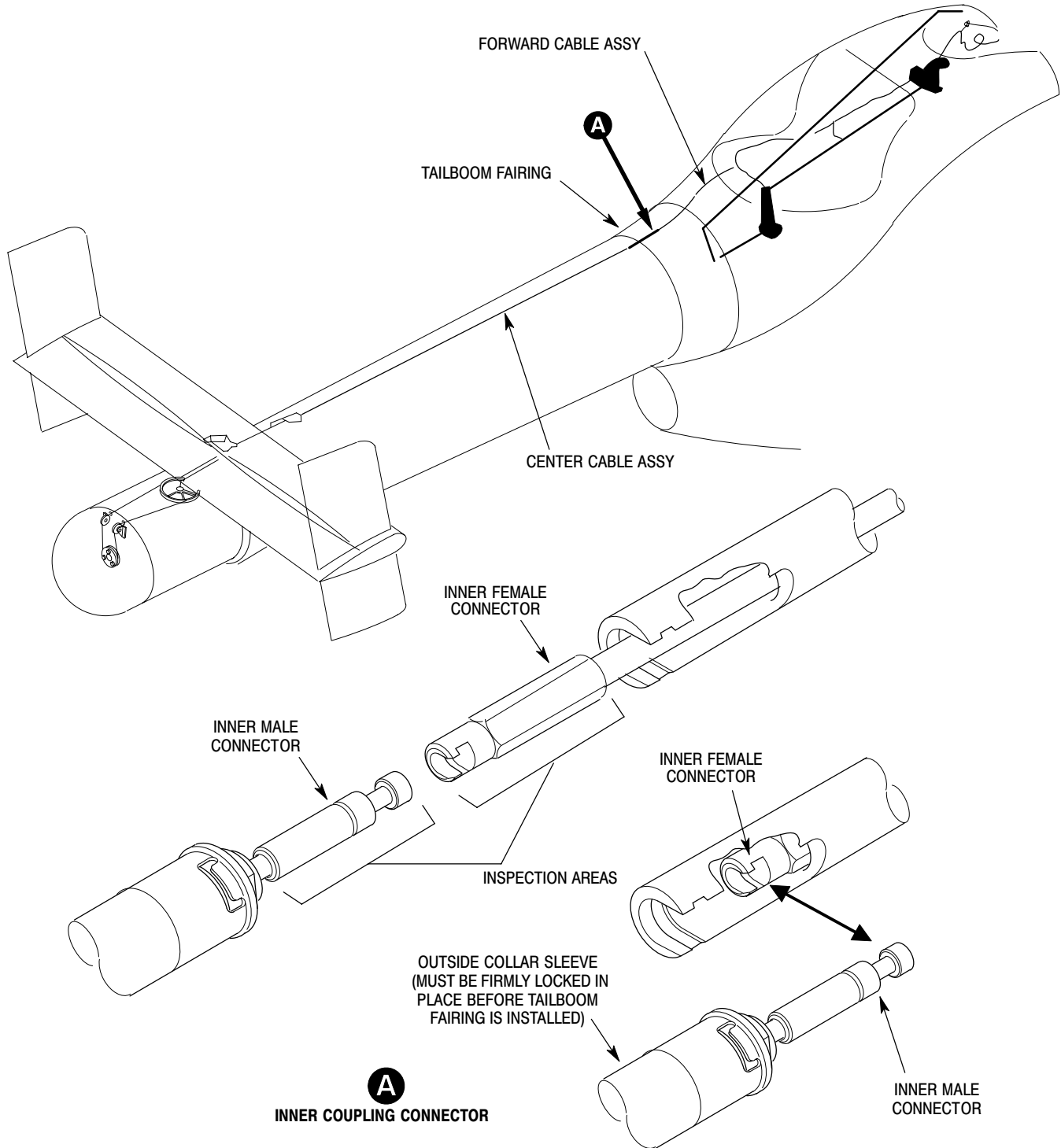
For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 346-6387. DATAFAX: (480) 346-6813.

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Figure 1. Forward and Center Thruster Cable Assembly Connector Inspection

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FORWARD AND CENTER THRUSTER CONTROL CABLE ASSEMBLIES CONNECTOR ONE TIME INSPECTION

BULLETIN INCORPORATION FORM

Please fill in the information below, as applicable, and return to MDHI Field Service Dept. This form may be faxed to MDHI Field Service Department at **(480) 346-6813**.

FROM:		DATE:	
Operator or Company Name:			
Name of Contact Person:			
Address:			
City, State, Country			
Telephone #:			
Fax #:			

HELICOPTER INFORMATION:	
Helicopter Serial Number:	
Helicopter Registration Number:	
Date of Compliance with this Bulletin:	

Inspection Results:					
Forward Cable:	Corrosion Pitting	Yes	No	Cracking	Yes No
Center Cable:	Corrosion Pitting	Yes	No	Cracking	Yes No

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