



SERVICE BULLETIN

DATE: 03 DECEMBER 2008

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* Supersedes SB900-110 dated 17 October 2008. Revised to add replacement of VSCS tube adapters.

OPERATIONAL RESTRICTIONS AND REPLACEMENT OF VSCS TUBE ADAPTERS

1. PLANNING INFORMATION

A. Aircraft Affected:

All MD900 helicopters serial number 900-00008 thru 900-00133.

All 500N7218-1 VSCS tube adapters in spares inventory that were ever installed on an MD900 helicopter.

B. Assembly/Components Affected By This Notice:

500N7218-1 VSCS tube adapter.

C. Reason:

Replace the two 500N7218-1 VSCS tube adapters with the improved 900C2010303-101 tube adapters to prevent an uncommanded yaw of the helicopter. Operate at a decreased speed until new adapters are installed.

An NPRM superceding AD is anticipated as termination action for E-AD 2008-22-53.

D. Description:

Procedures in this bulletin give owners and operators instructions to operate the helicopter at 100 KIAS or V_{NE} whichever is less, VFR only, auto pilot off, VSCS on, and as specified in the applicable Rotorcraft Flight Manual Airspeed Limitations Section until the VSCS tube adapters are replaced.

Refer to the latest revision of CSP-900RMM-2 Rotorcraft Maintenance Manual, Section 04-00-00 Airworthiness Limitations for life limit of the 900C2010303-101 VSCS tube adapter.

E. FAA Approval:

The technical design aspects of this bulletin are FAA Approved.

F. Time of Compliance:

Part A. must be completed before the next flight.

Part B. must be completed as soon as 900C2010303-101 VSCS tube adapters are available.

G. Manpower:

0.2 man-hour for part A.

5.5 man-hours for part B.

H. Interchangeability:

None

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I. Points of Contact:

For further assistance, contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 346-6387. DATAFAX: (480) 346-6813.

J. Material/Part Availability:

Speak to the MDHI Warranty Repair Department to order the VSCS tube adapters.

PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Adapter, Tube, VSCS	900C2010303-101	2	MDHI

K. Warranty Policy:

The MDHI Warranty and Repair Department will supply VSCS tube adapters at no cost to the operator. MDHI will also give, to authorized Service Centers, up to 0.2 hour of labor warranty (spares credit) for part A. and five and one half hours of labor warranty (spares credit) for part B. of this bulletin.

L. Disposition of Parts Removed and Spares Inventory:

Scrap removed adapters and all adapters in spares inventory that were ever installed on an MD900.

M. Tooling:

N/A

N. Weight and Balance:

N/A

O. Electrical Load Data:

N/A

P. Other Publications Affected:

CSP-900RMM-2 Rotorcraft Maintenance Manual and CSP-900IPL-4 Illustrated Parts List.

2. ACCOMPLISHMENT INSTRUCTIONS

A. Make and Install Placard:

- (1). Make a placard **AIR SPEED LIMIT 100 KIAS or V_{NE} , WHICHEVER IS LESS. VFR FLIGHT ONLY, AUTO PILOT OFF.**
- (2). Install placard on instrument panel in view of pilot.

NOTE:

- If there is an anti-torque system malfunction, de-energize the VSCS on final approach to a run on landing. Refer to Rotorcraft Flight Manual Emergency Procedures for Anti-torque Failure Complete Loss of Thrust and Fixed Thruster Setting.
- Do an inspection before and after each flight to make sure vertical stabilizers are in the correct position and control linkages are attached. To check control linkages, apply light pressure with your hand to the trailing edge of left and right vertical stabilizer in the inboard and outboard direction. No free movement permitted.

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- (3). Make a record in the Compliance Record section of the Rotorcraft Log Book that Part A of this service bulletin has been completed.
- (4). Complete Bulletin Completed Record form Part A Completed (attached) and FAX or e-mail to MDHI Field Service Department.
- (5). Operate helicopter as specified in the applicable Rotorcraft Flight Manual Airspeed Limitation Section for helicopter operation.

B. VSCS Tube Adapter Replacement:

- (1). Replace left and right 500N7218-1 VSCS tube adapters with improved 900C2010303-101 VSCS tube adapters, scrap removed adapters (Ref. CSP-900RMM-2, Section 67-20-00).
- (2). Remove **AIRSPPEED LIMIT 100 KIAS or V_{NE}, WHICHEVER IS LESS. VFR FLIGHT ONLY, AUTO PILOT OFF.** placard from instrument panel.
- (3). If auto pilot (AP/SAS) is de-energized, do the steps that follow:
 - (a). On the essential bus circuit breaker panel, remove the cable ties and push in the circuit breakers that follow:
 - 1). **AP/SAS CMPTR** (CB28)
 - 2). **AP/SAS DISC** (CB29)
 - 3). **AP/SAS ACCEL** (CB30).
 - (b). Remove **AP/SAS DEACTIVATED** placard
 - (c). In the Rotorcraft Flight Manual, remove pen and ink changes or copy of AD 2008-22-53 that revised the limitations to **V_{NE} LIMITED TO 100 KIAS OR LESS, VFR FLIGHT ONLY, AUTO PILOT OFF.**
 - (d). Do a system operational test of the auto pilot system. Refer to latest revision of 0006-00757-0000 KFCS 900 Maintenance Manual, Section 12, Page 621, Paragraph B System Operational Test.
- (4). If FAA AMOC 120L-08-32 dated 3 November 2008 and MDHI letter 08-ME-138B dated 31 October 2008 was completed, do the steps that follow:
 - (a). Remove **USE OF AUTOPILOT PROHIBITED** placard.
 - (b). Remove screws, spacers, and cover from mode select panel.
 - (c). Discard spacers and cover.
 - (d). Install removed screws in panel. Torque screws.
- (5). Make a record in the Compliance Record section of the Rotorcraft Log Book that Part B of this service bulletin has been completed.
- (6). Complete Bulletin Completed Record form Part B Completed (attached) and FAX or e-mail to MDHI Field Service Department.

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Bulletin Completed Record

Service Bulletin SB900-110R1, Operational Restrictions and Replacement of VSCS Tube Adapters.

FAX this form to MDHI (480) 346-6813 or
E-mail to ServiceEngineering@mdhelicopters.com

MD Helicopters, Inc.
Field Service Department
4555 E. McDowell Road
Mesa, AZ 85215-9734

800-388-3378 phone (U.S. and Canada)
480-346-6387 phone (International)
480-346-6813 Fax

Dear Sir:

This is to tell you that this service bulletin has been completed as shown below:

Owner/Operator: _____

Aircraft Serial No: _____

Address: _____

Phone: _____

E-mail address: _____

PART A Completed

Helicopter Total Time: _____

Date: _____

Location: _____

This bulletin is complete: _____

(Signature)

(Print Name)

(Title)

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PART B Completed

Helicopter Total Time: _____

Date: _____

Location: _____

Serial numbers of 900C2010303-101 tube adapters installed: _____

This bulletin is complete: _____
(Signature)

(Print Name)

(Title)

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