



SERVICE BULLETIN

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* Supersedes service bulletins SB500N-040 and SB600N-047, dated 15 August 2008. Revised to change aircraft affected and delete steps to pull the YSAS circuit breaker and install cable ties. Added Part A and Part B to bulletin completed form.

DE-ENERGIZE YSAS SYSTEM AND REPLACE YSAS ADAPTER

1. PLANNING INFORMATION

A. Aircraft Affected:

MD500N helicopters serial number LN-001 thru LN-107 and MD600N helicopters serial number RN-003 thru RN-076 with YSAS system installed.

All YSAS adapters in spares inventory without a manufacture date stamp.

B. Assembly/Components Affected By This Bulletin:

500N7218-1 YSAS adapter.

C. Reason:

Some YSAS adapters were made with a decreased strength material. It is possible for the YSAS adapter to become unserviceable which will result in reduced directional control of the helicopter.

D. Description:

Procedures in this bulletin give owners and operators instructions to de-energize the YSAS system, operate the helicopter as specified in the applicable Flight Manual for operation with a YSAS that does not operate, and replace the YSAS adapter.

E. FAA Approval:

The technical design aspects of this bulletin are FAA Approved.

In addition, the Manager of the FAA Los Angeles Aircraft Certification Office approves the actions defined in Section 2. Accomplishment Instructions, paragraph A.(1) of this service bulletin as an alternative method of compliance to the requirements of paragraph (a)(1) of FAA AD 2008-18-51 for all MD500N and MD600N helicopters in the applicability of the subject AD. All provisions of AD 2008-18-51 that are not specifically referenced in the above statement remain fully applicable and must be complied with.

The FAA is considering rulemaking action to mandate this revised Service Bulletin.

NOTE: Section 2., Accomplishment Instructions, paragraphs A.(1) of Service Bulletin SB500N-040 and SB600N-047, Dated August 15, 2008 which pulled the circuit breaker for the YSAS have been deleted in this revision of the Service Bulletin.

F. Time of Compliance:

Part A. must be completed before the next flight.

Part B. must be completed as soon as a YSAS adapter is available.

G. Manpower:

0.2 man-hour for part A.

5.5 man-hours for part B.

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H. Interchangeability:

None

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 YSAS adapter.

PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Adapter, YSAS	500N7218-1	1	MDHI

K. Warranty Policy:

The MDHI Warranty and Repair Department will supply a YSAS adapter 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:

Scrap.

M. Tooling:

N/A

N. Weight and Balance:

N/A

O. Electrical Load Data:

N/A

P. Other Publications Affected:

CSP-HMI-2 Handbook of Maintenance Instructions.

2. ACCOMPLISHMENT INSTRUCTIONS

A. MD500N Helicopters and All MD600N Helicopters With YSAS Installed:

- (1). De-energize the YSAS system, set **YSAS** switch to **OFF** (Ref. CSP-520N-1, Section 4, Figure 4-2 and CSP-600RFM-1, Section 7, Figure 7-7).
- (2). Make a placard **YSAS SYSTEM DE-ENERGIZED. AIRSPEED LIMIT 100 KIAS or V_{NE}, WHICHEVER IS LESS.**
- (3). Install placard on instrument panel in view of pilot.
- (4). Make a record in the Compliance Record section of the Rotorcraft Log Book that Part A of this service bulletin has been completed.

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B. YSAS Adapter Replacement:

- (1). Remove YSAS actuator (Ref. CSP-HMI-2, Section 67-20-30).
- (2). Measure distance between inboard end of YSAS control rod and inboard end of adapter, record dimension.
- (3). Remove lockwire from YSAS control rod and adapter. Discard lockwire.



The threads on the adapter are left handed.

- (4). Loosen jam nut and remove adapter.
- (5). Install jam nut on new adapter marked with a date of manufacture 8-15-08 or later.
- (6). Install new adapter into YSAS control rod and adjust to length recorded in step (2). Torque jam nut and safety with lockwire.
- (7). Install YSAS actuator (Ref. CSP-HMI-2, Section 67-20-30).
- (8). Do the YSAS actuator rigging check (Ref. CSP-HMI-2, Section 67-20-30, Stability Augmentation System Rigging Instructions).
- (9). Remove placard **YSAS SYSTEM DE-ENERGIZED. AIRSPEED LIMIT 100 KIAS or V_{NE} , WHICHEVER IS LESS**, from instrument panel.
- (10). Make a record in the Compliance Record section of the Rotorcraft Log Book that Part B this service bulletin has been completed.
- (11). Complete Bulletin Completed Record form (attached) and FAX or e-mail to MDHI Field Service Department.

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Bulletin Completed Record

SB500N-040R1 or SB600N-047R1, De-Energize YSAS System and Replace YSAS Adapter.

FAX this form to MDHI (480) 346-6813 or
Email 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: _____

Part A of this bulletin is complete: _____
(Signature)

(Print Name)

(Title)

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PART B Completed

Helicopter Total Time: _____

Date: _____

Location: _____

This bulletin is complete: _____

(Signature)

(Print Name)

(Title)

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