



# SERVICE BULLETIN

DATE: 06 SEPTEMBER 1996

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## NOTAR® FAN DIFFUSER RETENTION FASTENER INSPECTION

### 1. PLANNING INFORMATION:

#### A. Aircraft Affected:

All McDonnell Douglas Helicopter Systems (MDHS) MD900 Series Helicopters serial numbers 00002 thru 00041.

#### B. Assembly/Components Affected by this Notice:

Aft Diffuser Assembly, Lower (P/N 900F2443300) and Stud Turnlock Fastener, Quarter Turn (P/N HS4431-20SW).

#### C. Reason:

MDHS has found that there is a potential for FOD to enter the NOTAR® fan. Therefore, MDHS is requesting all operators to inspect the fasteners that attach the lower aft diffuser assembly. If any the fasteners are missing, operators are required to perform a detailed inspection of all the fan components. Failure to perform the requirements of this Bulletin may result in damage to the fan hub and blade components. This condition may result in deterioration of directional control of the helicopter.

#### D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to inspection of the lower aft diffuser assembly attaching hardware and the NOTAR® fan assembly.

#### E. FAA Approval:

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

#### F. Manpower:

0.5 hours.

#### G. Time of Compliance:

The requirements of this Bulletin shall be accomplished within the next 25 hours of helicopter operation.

#### H. Interchangeability:

None

#### I. Material/Part Availability:

Contact MDHS Field Service Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Stud Turnlock Fastener, Quarter Turn	HS4431-20SW	A/R	MDHS
Sealant	MIL-S-8802 B1/2 (RM #012569)	A/R	Commercially Available

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## **J. Warranty Policy:**

Normal aircraft warranty applies.

## **K. Tooling:**

N/A

## **L. Weight and Balance:**

N/A

## **M. Electrical Load Data:**

N/A

## **N. Other Publications Affected:**

N/A

## **2. ACCOMPLISHMENT INSTRUCTIONS:**

- (1). Remove each HS 4431-20SW fastener, one at a time, from the lower NOTAR® fan diffuser and examine the fastener to verify the wing head (Ref. Figure 1) is still present. If the wing head is missing, replace with a new fastener.
- (2). Fasteners not missing the wing head should be carefully examined around the wing head/stud slot joints (Ref. Figure 1) for the presence of brazed silver metal. Brazed metal should be present for joint strength and in sufficient quantity to completely fill the joints between the wing head and the stud slot. If brazed metal is not present or fill appears incomplete, replace with a new fastener.

**NOTE:** Brazed silver metal will appear as light golden or straw color, contrasting with the silver color of stainless steel fastener body.

- (3). If fasteners are found to have their wings missing, a detailed inspection of all the fan components must be performed (Ref. CSP-900RMM-2).
- (4). Apply sealant to lower side of acceptable fasteners as shown in Figure 1 and reinstall fasteners.

## **3. DISPOSITION OF PARTS REMOVED:**

Return to MDHS.

## **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.

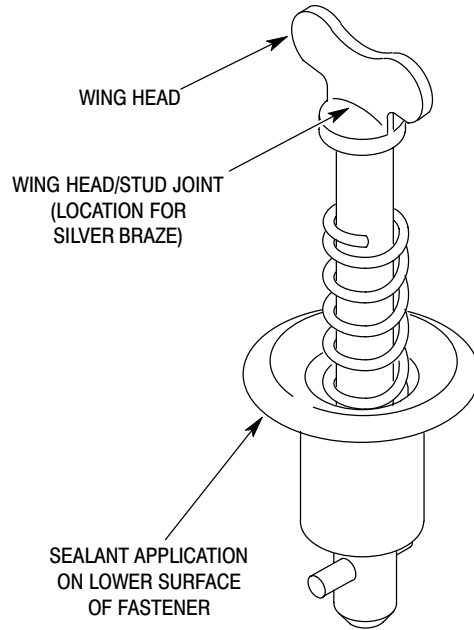
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**Figure 1. Winged Quarter Turn Fastener Inspection.**

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