

URGENT

*TB 1-1520-237-20-240

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SAFETY OF FLIGHT, TECHNICAL RCS CSGLD-1860 (R1), ALL H-60 SERIES AIRCRAFT, INSPECTION FOR IMPROPER OR UN-INSTALLED HARDWARE ON THE OIL COOLER FAN SHAFT ASSEMBLY FORWARD MOUNT

Headquarters, Department of the Army, Washington, D. C.
3 DECEMBER 2001

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

1. **Priority Classification. URGENT**

NOTE

IAW AR 95-1, para 6-6a, MACOM Commanders may authorize temporary exception from message requirements. Exception may only occur when combat operations or matter of life or death in civil disasters or other emergencies are so urgent that they override the consequences of continued aircraft operation.

a. Aircraft in Use. Upon receipt of this TB make the following entry on the DA Form 2408-13-1. Enter a Red Horizontal Dash // - // status symbol with the following statement: "Inspect Oil Cooler Fan Shaft Assembly Forward Mount Flange, IAW TB 1-1520-237-20-240 prior to next flight, but NLT than 30 November, 2001." Clear the Red Horizontal Dash // - // entry when the procedures IAW para 8 are completed. The affected aircraft shall be inspected as soon as practical, but NLT 30 November, 2001. Commanders who are unable to comply with the requirements of this TB within the time frame specified will upgrade the affected aircraft status symbol to a Red // X //.

b. Aircraft in maintenance.

(1) Aircraft in AVUM, AVIM or Depot. Commanders and facility managers will not issue aircraft until they are in compliance with this TB.

(2) Aircraft at Contractor Facility. Inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination.

* This TB supersedes USAAMCOM Safety Of Flight Message (SOF), 162045Z NOV 01, UH-60-02-01.

- c. Aircraft in Transit.
 - (1) Surface/Air Shipment - Same as paragraph 1.a..
 - (2) Ferry Status - Same as paragraph 1.a..
- d. Maintenance Trainers (Category A, and B). Same as paragraph 1.a..
- e. Component/Parts in Stock at All Levels (Depot Level and Others), including War Reserves. N/A.
- f. Components/Parts in Work (Depot Level and Others). N/A.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 prior to next flight but NLT 30 November 2001 and report IAW para 14.a.(2) NLT 4 December 2001.

3. TAMMS Reporting Compliance Suspense Date. Report compliance IAW paragraph 14.a.(1), NLT 27 November 2001.

4. Summary of Problem.

a. History - The Oil Cooler Fan Shaft is an integral part of the helicopter tail rotor drive system. Recently a report was received from the field indicating that during a 100 hour inspection it was noted the mounting hardware for the oil cooler fan shaft (part number 70361-03009-047) was both improperly installed and improper hardware was used. Six bolts are required and only three were installed, with none having a self-locking nut.

b. Manpower/downtime and funding impacts - See paragraph 12.

c. The purpose of this TB is to:

(1) Identify all H-60 aircraft that have not completed the 500 hour periodic inspection.

(2) Inspect aircraft with less than 500 hours for both improper, and un-installed oil cooler fan shaft assembly forward mount hardware.

5. End Items to be Inspected. All H-60 series aircraft.

6. Assembly Components to be Inspected. -

NOMENCLATURE	PART NUMBER	NSN
Fan Shaft Assembly	70361-03009-047	1615-01-158-9517

7. Parts to be Inspected. -

NOMENCLATURE	PART NUMBER	NSN
Screw, Machine	SS5111-05-008	5305-01-363-8413
Nut, Self-locking	69193S-524	5310-01-125-1217

8. Inspection Procedures.

a. Inspect the aircraft DA Form 2408-13 to determine the aircraft total time.

b. If total time is greater than 500 hours and a PMS 2 has been completed, no further inspection is required and the red horizontal dash // - // entry will be cleared.

c. If aircraft records indicate less than 500 hours and a PMS 2 has not been performed, inspect the oil cooler fan shaft assembly forward mount hardware as follows:

(1) Gain access to the rear of the oil cooler fan duct..

(2) Remove oil cooler duct access cover.

(3) With a light source, inspect oil cooler fan shaft assembly forward mount flange attaching hardware for the proper installation of 6 bolts, with the proper self-locking nuts IAW TM 1-1520-237-23-4, paragraph 6-4-49.2.3..

- d. If the proper hardware is installed, the inspection procedure is complete. Re-install oil cooler access cover and clear the red horizontal dash // - // entry.
- e. If during the inspection process it is determined that improper hardware is installed:
 - (1) Clear the red horizontal dash // - // entry.
 - (2) Make the following red // X // entry: "Improper Hardware Installed In The Oil Cooler Fan Shaft Assembly Forward Mount." Correct IAW paragraph 9 of this TB.

9. Correction Procedures.

If the inspection process in paragraph 8. reveals incorrect or un-installed hardware in the oil cooler fan shaft assembly forward mount:

- a. Gain access to the oil cooler fan exit flange and oil cooler shaft by removing oil cooler radiator in accordance with TM 1-1520-237-23-4, paragraph 6-4-46.1.1..
- b. Remove existing hardware and inspect/repair oil cooler exit flange and oil cooler shaft in accordance with TM 1-1520-237-23-4, para 6-4-49.2.2..
- c. Install the correct hardware in the oil cooler fan exit flange to the oil cooler shaft in accordance with TM 1-1520-237-23-4, paragraph 6-4-49.2.3..
- d. When proper hardware has been installed, clear the red // X // entry.

10. Supply/Parts and Disposition.

- a. Parts required. Items cited in paragraph 6. may be required to replace defective items.
- b. Requisitioning instructions. Requisition replacement parts using normal supply procedures. All requisitions shall use project code (CC 57-59) "X0R" (X-Ray Zero Romeo).

NOTE

Project code "X0R" is required to track and establish a data base of stock fund expenditures incurred by the field as a result of message actions.

- c. Bulk and Consumable Materials. N/A.
 - d. Disposition. Dispose of removed parts/components using normal supply procedures.
 - e. Disposition of Hazardous Material. N/A.
- 11. Special Tools, and Fixtures Required..** As required.

12. Application.

- a. Category of Maintenance.
 - (1) AVUM . Aircraft downtime will be charged to AVUM maintenance. Report aircraft non-mission capable maintenance (NMCM) while undergoing inspection and correction IAW this TB.
- b. Estimated Time Required.
 - (1) Time to Complete Inspection -
 - (a) Total of 1 man-hour using 1 person.
 - (b) Total of 1 hour downtime for one end item.
 - (2) Time For Replacement -
 - (a) Total of 6 man-hours using 3 persons.
 - (b) Total of 2 hours downtime for one end item.
- c. Estimated cost impact to the field.

NOMENCLATURE	PART NO./NSN	QTY.	COST EA.	TOTAL
Screw, Machine	SS5111-05-008 5305-01-363-8413	6	\$3.66	\$21.96
Nut, Self-locking	69193S-524 5310-01-125-1217	6	\$8.61	\$51.66

Total Cost per Aircraft = \$73.92

- d. TB/MWOs to be applied prior to or concurrently with this inspection. N/A
- e. Publications which require change as a result of this inspection. - N/A.

13. References.

- a. DA PAM 738-751, 15 March 1999.
- b. TM 1-1520-237-23-4, 29 May 00.
- c. TM 1-1520-237-23P, 27 Nov 00.

14. Recording and Reporting Requirements.

NOTE

If the reporting requirements below in paragraphs 14.a.(1),(2), 14.b.(1),(2), and 14.c.(1), (2) have already been accomplished IAW UH-60-02-01, there are no further reporting requirements below.

a. Aircraft:

(1) TAMMS Reporting Compliance Suspense.

Upon entering requirements of this TB on DA Form 2408-13-1 for all affected aircraft, Commanders will forward a priority message, datafax or email to Commander, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, IAW AR 95-1, NLT date specified in paragraph 3. Datafax number is DSN 897-2111 or commercial (256) 313-2111. Email address is "safeadm@redstone.army.mil". The report will cite This TB number, date of entry in DA Form 2408-13-1, the aircraft mission design series and serial numbers of aircraft in numerical order.

(2) Task/Inspection Reporting Suspense Date .

Upon completion of inspection, Commanders will forward a priority message to the Logistical Point of Contact listed in paragraph 16.b.. The report will cite this TB number, date of the inspection, aircraft serial number, aircraft hours, and results of the inspection. Inspection and reports will be completed NLT date specified in paragraph 2.

b. Wholesale Spare Parts/Assemblies. N/A.

c. Retail Spare Parts/Assemblies. N/A.

d. The following forms are applicable and are to be completed in accordance with DA Pam 738-751, 15 Mar 99.

NOTE

ULLS-A users will use applicable "E" forms.

(1) DA Form 2408-5-1, Equipment Modification Record (shaft assembly).

(2) DA Form 2408-13, Aircraft Status Information Record.

(3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(4) DA Form 2408-16, Aircraft Component Historical Record.

(5) DA Form 2410, Component Removal and Repair/Overhaul Record (only if shaft assembly is removed and/or replaced).

(6) DD Form 1574/DDForm 1574-1, Serviceable Tag/Label - Materiel (color yellow). Annotate with "Inspected Serviceable IAW UH-60-02-01 (TB 1-1520-237-20-240)."

(7) DD Form 1577-2/DD Form 1577-3, Unserviceable (Repairable) Tag/Label - Materiel (color green). Annotate remarks block with "Unserviceable IAW UH-60-02-01 (TB 1-1520-237-20-240) .".

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact is Mr. Gary Trotter, AMSAM-RD-AE-I-D-U, DSN 897-8085, Commercial (256) 313-8085. Datafax is 897-6053 or Commercial (256)313-6053, email is "gary.trotter@uh.redstone.army.mil".

b. Logistical point of contact is Mr. Joe Hoover, AMSAM-DSA-UH-L, DSN 645-7898 or (256) 955-7898, datafax is DSN 897-3778 or (256)313-3778. Email is "joe.hoover@uh.redstone.army.mil"

c. Wholesale materiel point of contact (Spares) is Ms. Julia Moore, AMSAM-MMC-VS-UB, DSN 897-1176 or (256) 313-1176, datafax is DSN 897-4769. Email is "julia.moore@redstone.army.mil".

d. Forms and records point of contact is Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or (256) 876-5564, Datafax is DSN 746-4904. Email is "ann.waldeck@redstone.army.mil".

e. Safety points of contact are:

(1) Primary - Mr. Harry Trumbull, (SAIC), AMSAM-SF-A, DSN 897-2095 or commercial (256) 313-2095, Datafax is DSN 897-2111 or (256) 313-2111. Email is "harry.trumbull@redstone.army.mil".

(2) Alternate - Mr. Ron Price, AMSAM-SF-A, DSN 788-8636 or (256) 842-8636, datafax is DSN 897-2111 or (256) 313-2111. Email is "ron.price@redstone.army.mil".

f. Foreign Military Sales recipients requiring clarification of action advised by this TB should contact

(1) Primary: Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6856 or (256) 313-6856. Datafax is DSN 897-6630 or (256) 313-6630. Email "ronnie.sammons@redstone.army.mil".

(2) Alternate: MR. Paul W. Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or (256) 313-6861. Datafax is DSN 897-6630 or (256) 313-6630. Email "tarrpw@redstone.army.mil".

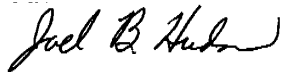
g. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/7 or (256) 313-2066/7.

17. Reporting of Errors and Recommended Improvements. You can improve this TB. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. You may also submit your recommended changes by email directly to 2028@redstone.army.mil. A reply will be furnished directly to you.

TB 1-1520-237-20-240

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0132501

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 314011, requirements for TB 1-1520-237-20-240.

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: 2028@redstone.army.mil

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.