

URGENT

*TB 1-1520-237-20-239

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MAINTENANCE MANDATORY, RCS CSGLD-1860 (R1), H-60 SERIES AIRCRAFT, INITIAL AND RECURRING INSPECTION OF THE TAIL ROTOR FAIRING ASSEMBLY

Headquarters, Department of the Army, Washington, D. C.
30 NOVEMBER 2001

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

1. **Priority Classification. URGENT**

NOTE

IAW AR 95-1, para 6-6a/6-14a, 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 Fairing Assembly, P/N 70104-11104-044, IAW TB 1-1520-237-20-239 within 10 Flight Hours, but no later than 29 November, 2001." Clear the Red Horizontal Dash // - // entry when the procedures IAW para 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical, but NLT 29 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 facility.

(1) Aircraft in AVUM, AVIM or Depot. Same as paragraph 1.a..

(2) Aircraft at Contractor Facility. Inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination. Replace all injection molded fairings with fiberglass lay-up fairings prior to departure.

* This TB supersedes USAAMCOM Aviation Safety Action Message (ASAM), 142200Z NOV 01, UH-60-02-ASAM-01.

c. Aircraft in Transit.

- (1) Surface/Air Shipment -Prior to first flight.
- (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.

Upon receipt of this TB, Depot and Materiel Activity Commanders will ensure the materiel condition tags of all items in all condition codes listed in paragraphs 6 and 7 are annotated to read: "UH-60-02-ASAM-01 (TB 1-1520-237-20-239), Inspection of Fairing Assembly Not Complied With."

(1) Wholesale Stock - Upon receipt of this TB, Depot and Materiel Activity Commanders will ensure all items in condition codes // A //, // B //, // C //, // D //, and // E //, listed in paragraph 7, are placed in condition code // J //, and tagged with a Suspended Tag/Label - Materiel, DD Form 1575/DD Form 1575-1. Do not remove original condition tags.

(2) Retail Stock - Upon receipt of this TB, Commanders and Facility Managers maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the procedures required IAW paragraphs 8 and 9, on suspect materiel. Dispose of discrepant materiel IAW paragraph 10.

f. Components/Parts in Work (Depot Level and Others).

Depot and other maintenance activity commanders will ensure items listed in paragraphs 6 and 7, are not issued until they are in compliance with this TB.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraphs 8 within the next 10 flight hours but NLT 29 November 2001 and report IAW para 14.a.(2) NLT 3 December 2001.

3. Reporting Compliance Suspense Date. N/A.

4. Summary of Problem.

a. History - Tail rotor fairings installed on recent production aircraft have cracked in service. Cracked fairings have also been found on installed and uninstalled spares. The manufacturing process was changed from a fiberglass lay-up to an injection molding process. Investigation revealed that due to the change in the manufacturing process, the stresses introduced during installation of the nut plates may be causing the cracking.

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

c. The purpose of this TB is to:

- (1) Conduct an initial inspection to identify and replace suspect parts.
- (2) Implement a recurring inspection of suspect parts.

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

6. Assembly Components to be Inspected. -

NOMENCLATURE	PART NUMBER	NSN
Blade, Rotary Wing	70104-31000-043	1615-01-113-8188
	70104-31000-044	1615-01-088-3230
	70101-11200-043	1615-01-430-2782

7. Parts to be Inspected. -

NOMENCLATURE	PART NUMBER	NSN
Fairing Assembly	70104-11104-044	1615-01-114-6181
Fairing	70104-11104-103	1560-01-298-6251

8. Inspection Procedures.

a. Inspect the fairing assembly to determine the configuration of the part. There are two configurations of the tail rotor fairing (part number 70104-11104-044), fiberglass lay-up and injection molded. The fiberglass lay-up fairing has smooth sides while the injection molded fairing has two raised sections on each side.

NOTE

Supplemental information for this TB can be viewed at: (use lower case letters only) www.redstone.army.mil/sof/suppl/uh60a0201.pdf or www.uhpo.redstone.army.mil

b. If the fiberglass lay-up fairing is installed on all four tail rotor blades, the inspection is complete and the red horizontal dash // - // entry will be cleared.

c. If an injection molded fairing is installed, inspect the fairing assembly for cracks. The typical crack occurs in the area where the electrical connector mounting bracket attaches.

(1) If cracks are found, proceed to paragraph 9.a..

(2) If no cracks are found, proceed to paragraph 9.b..

9. Correction Procedures. .

a. If a cracked injection molded tail rotor fairing assembly is found -

(1) Clear the red horizontal dash // - // entry required IAW paragraph 1.a. of this TB.

(2) Enter a new red // X // status symbol on the DA Form 2408-13-1 with the following statement: "Tail Rotor Blade (enter the tail rotor blade serial number here) Fairing Assembly Cracked." Replacement of the fairing will be required prior to the next flight IAW TM 1-1520-237-23-3, paragraph 5-5-17.1, or TM 1-1520-250-23-3, paragraph 5.25.1.

NOTE

The injection molded fairing can be used as a replacement part until a fiberglass part can be acquired.

b. If an injection molded fairing is installed and no cracks are found -

(1) Clear the red horizontal dash // - // entry required IAW paragraph 1.a. of this TB.

(2) Enter a new red // X // status symbol on the DA Form 2408-13-1 with the following statement: "Replacement of the Fairing Assembly (enter the tail rotor blade serial number here), required IAW UH-60-02-ASAM-01 (TB 1-1520-237-20-239)." A separate entry is required for each tail rotor blade which has the injection molded fairing installed.

NOTE

Replacement of the fairing will be accomplished as soon as a fiberglass fairing can be obtained through supply.

(3) For each injection molded fairing installed, install a Tie Wrap (MS3367-6-0, Boot Tie Wrap) to secure the de-ice bracket to the tail rotor horn.

NOTE

Supplemental information for this TB can be viewed at: (use lower case letters only) www.redstone.army.mil/sof/suppl/uh60a0201.pdf or www.uhpo.redstone.army.mil

(4) At each 10 hour/14day PMS, conduct a recurring inspection of the fairing in the area where the electrical connector mounting bracket attaches, for cracks, and the Tie Wrap, for wear and security.

NOTE

ULLS-A units will use a "800" inspection number for the 10 hour/14Day recurring tail rotor blade fairing assembly inspection.

(5) When the injection molded fairing has been replaced, the red horizontal dash / / - / / entry will be cleared.

10. Supply/Parts and Disposition.

- a. Parts required. Items cited in paragraph 7. may be required to replace defective items.
- b. Requisitioning instructions. Contact the LOG POC IAW paragraph 16.b. for requisitioning instructions. The UH-60 PM will coordinate with Sikorsky for replacement of the fairings at no cost to the unit.
- c. Bulk and Consumable Materials:

NOMENCLATURE	PART NUMBER	NSN
Tie Wrap	MS3367-6-0	N/A

d. Disposition. Demilitarize/mutilate IAW TM 1-1500-328-23, any paragraph 7. part/component removed IAW paragraph 9..

e. Disposition of Hazardous Material. N/A.

11. Special Tools, and Fixtures Required.. As required.

12. Application.

a. Category of Maintenance.

(1) AVUM for the initial inspection and installation of the Tie Wrap. Aircraft downtime will be charged to AVUM maintenance.

(2) AVIM for replacement of the fairing assembly. Aircraft downtime will be charged to AVIM.

b. Estimated Time Required.

(1) Time to Complete Inspection - Total of 0.5 man-hours using 1 person.

(2) Time To Install The Tie Wrap -

- (a) Total of 0.5 man-hours using 1 person.
- (b) Total of 0.5 hours downtime for one end item.

(3) Time To Remove And Replace The Fairing -

- (a) Total of 1.5 man-hours using 1 person.
- (b) Total of 1.5 hours downtime for one end item.

Downtime reflected is to remove and reinstall one tail rotor fairing assembly.

c. Estimated cost impact to the field.

NOMENCLATURE	PART NO./NSN	QTY.	COST EA.	TOTAL
Fairing Assembly	70104-11104-044 1615-01-114-6181	4	\$1337.87	\$5351.48

Total Cost per Aircraft = \$5351.48

- 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. - Not required.

13. References.

- a. DA PAM 738-751, 15 March 1999.
- b. TM 1-1520-237-23P-2.
- c. TM 1-1520-250-23P-1.
- d. TM 1-1520-237-23-3.
- e. TM 1-1520-250-23-3.
- f. TM 1-1500-328-23.

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-ASAM-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 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 UH-60-02-ASAM-01 (TB 1-1520-237-20-239), 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 UH-60-02-ASAM-01 (TB 1-1520-237-20-239), date of the inspection, aircraft serial number, aircraft and component hours, and results of the inspection. Inspection and reports will be completed NLT date specified in paragraph 2.

b. Wholesale Spare Parts/Assemblies.

(1) Reporting Message Receipt.

Depot and Materiel Activity Commanders will report receipt of this TB by email, or datafax to the Wholesale Materiel (SPARES) POC listed in paragraph 16.c. NLT the date specified in paragraph 1.e.(1). Provide local point of contact.

(2) Task/Inspection Reporting Suspense Date .

Depot and Wholesale Materiel Activity Commanders will provide a DD Form 1225 to the Wholesale Materiel (SPARES) listed in paragraph 16.c. NLT the date specified in paragraph 1.e.(1). Provide an estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraphs 6. and 7. to a work area, unpack the materiel, repack the materiel after inspection by AMCOM inspectors, and to return the materiel to storage. Report by original serviceable condition code, the quantity of materiel placed in condition code // J //. Report by email, or datafax and provide local point of contact.

c. Retail Spare Parts/Assemblies.

(1) Reporting Message Receipt.

Commanders and facility managers will report receipt of this TB by email, or datafax to the LOG POC listed in paragraph 16.b. NLT the date specified in paragraph 1.e.(2). Provide local point of contact.

(2) Task/Inspection Reporting Suspense Date .

Commanders and facility managers will report inspection results to the LOG POC listed in paragraph 16.b. NLT the date specified in paragraph 1.e.(2). Report the quantity inspected by condition code and the resulting condition code. Report by email, or datafax and provide local point of contact.

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 (Tail Rotor Blade 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 2408-18, Equipment Inspection List.
- (6) DA Form 2410, Component Removal and Repair/Overhaul Record (only if tail rotor blade assembly is removed and/or replaced).
- (7) DD Form 1575/DDForm 1575-1, Suspended Tag/Label - Materiel (color brown). Annotate with "Suspended IAW UH-60-02-ASAM-01 (TB 1-1520-237-20-239)."
- (8) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label - Materiel (color red). Annotate remarks block with "Condemned IAW UH-60-02-ASAM-01 (TB 1-1520-237-20-239) and mutilated IAW TM 1-1520-328-23."

15. Weight and Balance. N/A.

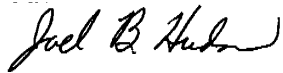
16. Points of Contact.

- 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.

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0133001

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

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 314010, requirements for TB 1-1520-237-20-239.

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.