

URGENT

*TB 1-1520-237-20-241

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MAINTENANCE MANDATORY, RCS CSGLD-1860 (R1), H-60 SERIES AIRCRAFT, ONE TIME INSPECTION OF THE FLIGHT CONTROL SYSTEM, PITCH TRIM ASSEMBLY

Headquarters, Department of the Army, Washington, D. C.
02 JANUARY 2002

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 Aircraft Pitch Trim Assembly, IAW TB 1-1520-237-20-241 before next flight, but no later than 13 December, 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 13 December, 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 Level Maintenance. Commanders and Facility Managers will not issue aircraft until they are in compliance with this message.

(2) Aircraft at Contractor Facility - N/A.

* This TB supersedes USAAMCOM Aviation Safety Action Message (ASAM), 102100Z DEC 01, UH-60-02-03.

c. Aircraft in Transit.

- (1) Surface/Air Shipment – Prior to first flight after arrival at destination.
- (2) Ferry Status – Same as paragraph 1.a..

d. Maintenance Trainers (Category A and B). Comply NLT 13 December 2001.

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-60-02-03 (TB 1-1520-237-20-241), Inspection of Flight Control System, Pitch Trim Assembly, Not Complied With."

(1) Wholesale Stock – Report receipt of this message IAW paragraph 14.b.(1) NLT 13 December 2001. 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 paragraphs 6 and 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. Report compliance with this message IAW paragraph 14.b.(2) NLT 17 December 2001.

(2) Retail Stock – Report receipt of this message IAW paragraph 14C(1) NLT 13 December 2001. Upon receipt of this message, 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 material. Dispose of discrepant materiel IAW paragraph 10. Report compliance with this message IAW paragraph 14.c.(2) NLT 17 December 2001.

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 before the next flight but NLT 13 December 2001 and report IAW para 14.a.(2) NLT 17 December 2001.

3. TAMMS Reporting Compliance Suspense Date. Report compliance IAW paragraph 14.a.(1) NLT 13 December 2001

4. Summary of Problem.

a. History – An H-60 Pitch Trim Boost Servo has been found on a production aircraft with a protruding actuator rod clevis pin. The pin had not been swaged as required allowing the pin to partially back out of the connection. Loss of this pin would result in complete loss of aircraft control.

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

c. The purpose of this TB is to perform a one time visual inspection to locate and remove from service Pitch Trim Assemblies with incorrectly installed actuator assembly rod clevis pin and washer.

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

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NSN
Trim Assembly, Pitch	70410-02760-046	1680-01-101-4097
Actuator, Trim Tab	70410-02760-047	1680-01-137-3533
Cylinder, Assembly	70410-02561-105	1650-01-106-1957
Cylinder, Assembly	70410-02561-112	1650-01-375-3160

7. Parts to be Inspected. -

NOMENCLATURE	PART NUMBER	NSN
Cylinder, Assembly	A10807-2	1650-01-098-4352
Cylinder, Assembly	A10807-3	1550-01-375-3161

8. Inspection Procedures. Perform a one time inspection of the Actuator Rod Clevis Pin as follows:

- a. Unlatch and open main rotor pylon sliding cover to gain access to pitch trim servo assembly.

NOTE

The Actuator Rod Clevis Pin head should be seated securely against the Pitch Trim cylinder assembly clevis bearing, however, there may be a gap not to exceed 0.126 inch between the head of the Clevis Pin and the Pitch Trim Cylinder Assy Clevis Bearing. The reverse side of the pin should exhibit evidence of swaging. The pin may rotate by hand and orientation of the pin can be in either direction, provided sufficient clearance between the pin head and any structure is maintained.

NOTE

If Hydraulic power can be applied, move the cyclic to the full aft position to allow better access to the area to be inspected.

- b. Using a mirror and flashlight, visually inspect the Pitch Trim cylinder assembly clevis and clevis pin for proper installation.
- c. If installation is correct, proceed to paragraph 9.a..
- d. If the washer is absent, or the pin is not swaged on the opposite side, proceed to paragraph 9.b..

9. Correction Procedures.

- a. If installation of clevis pin is correct –
 - (1) Ensure control area is free of foreign objects and all tools are accounted for.
 - (2) Close Main Rotor Pylon sliding cover and secure.
 - (3) The inspection is complete and the red horizontal dash entry will be cleared.
- b. If the gap between the head of the pin and the clevis bearing exceeds 0.126 inch, the washer is not installed, or the pin is not swaged, clear the original red horizontal dash // – // fault and enter a red // X // with the following statement, "Replace the Pitch Trim Assembly IAW UH-60-2-03 (TB 1-1520-237-20-241) prior to the next flight." Replace the Pitch Trim assembly IAW TM 1-1520-237-23-6, paragraph 11-4-49.1, TM 1-1520-250-23-5, paragraph 11.11.1.

10. Supply/Parts and Disposition.

- a. Parts required – Items cited in paragraphs 6 and 7. may be required to replace defective items.
- b. Requisitioning instructions – Requisitioning replacement parts using normal supply procedures. All requisitions shall us project code (CC 57-59) "X0S" (X-RAY ZERO SIERRA).

NOTE

Project code "X0S 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. All turn-in documents must include project code (CC 57-59) "X0S" (X-RAY ZERO SIERRA).
- e. Disposition of Hazardous Material. N/A.

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

12. Application.

- a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM maintenance.
- b. Estimated Time Required.
 - (1) Time to Complete Inspection –
 - (a) Total of 1 man-hours using 1 person.
 - (b) Total of 1 hour downtime for one end item.
 - (2) Time For Repair/Replacement –
 - (a) Total of 6 man-hours using 3 persons.
 - (b) Total of 3 hours aircraft downtime.
- c. Estimated cost impact to the field.

NOMENCLATURE	PART NO./NSN	QTY.	COST EA.	TOTAL
Cylinder Assembly	A10807-3 1650-01-375-3161	1	\$15213.00	\$15213.00

Total Cost per Aircraft = \$15213.00

- 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 1-1520-237-23-6, 29 May 1998.
- c. TM 1-1520-250-23-5, 28 Jul 2000.
- d. TM 1-1520-237-23P-4, FIG 58, 27 NOV 2000.

14. Recording and Reporting Requirements.

- 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 UH-60-02-03 (TB 1-1520-237-20-241), 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.

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-60-02-03 (TB 1-1520-237-20-241), date of the inspection, aircraft serial number and 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 2408-13, Aircraft Status Information Record.

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

(3) DA Form 2408-15, Historical Record for Aircraft.

(4) DD Form 1574/DDForm 1574-1, Serviceable Tag/Label – Materiel (color yellow). Annotate remarks block with "Inspected Serviceable IAW UH-60-02-03 (TB 1-1520-237-20-241)."

(5) DD Form 1575/DDForm 1575-1, Suspended Tag/Label - Materiel (color brown). Annotate remarks block with "Inspected Serviceable IAW UH-60-02-03 (TB 1-1520-237-20-41)."

(6) DD Form 1577-2/DD Form 1577-3, Unserviceable (Repairable) Tag/Label – Materiel (color green). Annotate remarks block with "Unserviceable IAW UH-60-02-03 (TB 1-1520-237-20-241)".

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact is Mr. Roger Clark, AMSAM-RD-AE-I-D-U, DSN 897-2530 Ext 9714, Commercial (256) 705-9714, alternate (256) 705-9717. Datafax is 897-6053 or Commercial (256) 705-9896, email is "roger.clark@rdec.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 Mr. Dan Delao, AMSAM-MMC-VS-UB, DSN 897-1303 or (256) 313-1303, datafax is DSN 788-7471. Email is "dan.delao@redstone.army.mil".

d. Forms and records point of contact is Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or (256) 897-5564, 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 1-1520-237-20-241

By Order of the Secretary of the Army:

Official:

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



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0135101

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 314018, requirements for TB 1-1520-237-20-241.

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.