

URGENT

*TB 1-1520-237-20-252

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MAINTENANCE MANDATORY TECHNICAL, RCS CSGLD-1860 (R1), ALL H-60 SERIES AIRCRAFT, COLLECTIVE AND YAW BOOST SERVO ASSEMBLIES SWAGE PIN COLLARS

Headquarters, Department of the Army, Washington, D. C.
09 May 2002

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

1. Priority Classification. URGENT

NOTE

IAW AR 95-1, paragraph 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 Swage Pins/Collars on Boost Servo assemblies, IAW TB 1-1520-237-20-252 within the next 10 flight hours, but NLT 2 May 2002." Clear the Red Horizontal Dash // - // entry when the procedures IAW paragraphs 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical, but NLT 2 May 2002. 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 Level Maintenance. Same as paragraph 1.a..

(2) Aircraft at Contractor Facility - Sikorsky will inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination.

* This TB supersedes USAAMCOM Aviation Safety Action Message (ASAM), 181430Z APR 02, UH-60-02-ASAM-06.

c. Aircraft in Transit.

(1) Surface/Air Shipment - Within 10 hours/14 days of arrival.

(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 material activity commanders will ensure the material condition tags of all items in all condition codes listed in paragraph 6 are annotated to read: " UH-60-02-ASAM-06 (TB 1-1520-237-20-252), Swage Pin Collar, not complied with."

(1) Wholesale Stock - Report receipt of this TB IAW paragraph 14.b.(1) NLT 2 May 2002. Upon receipt of this message, depot and material activity commanders will ensure all items in condition codes //A//, //B//, //C//, //D//, and //E//, listed in paragraph 6 are placed in condition code //J// and tagged with a suspended Tag/Label - Material, DD Form 1575/DD Form 1575-1. Do not remove original condition tags. Report compliance with this message IAW paragraph 14.b.(2) NLT 2 May 2002.

(2) Retail Stock - Upon receipt of this TB, commanders and facility managers maintaining retail stock listed in paragraph 6 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 material IAW paragraph 10. Report compliance with this TB IAW paragraph 14.c.(2) NLT 2 May 2002.

f. Components/Parts in Work (Depot Level and Others). Depot and other maintenance activity commanders will ensure items listed in paragraph 6 are not issued until they are in compliance with this TB.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 within the next 10 flight hours but NLT 2 May 2002 and report IAW paragraph 14.a.(2) NLT 6 May 2002.

3. Reporting Compliance Suspense Date. Report compliance IAW paragraph 14.a.(1) NLT 2 May 2002.

4. Summary of Problem.

a. The Navy has discovered improperly installed Swage Pin Collars on H-60 Collective and Yaw Boost Servos. CCAD also found a Yaw Boost Servo with this non-conforming installation with zero time since new. This improper installation will cause the collars to be loose which may lead to possible loss of the Swage Pin. This problem is identical to that addressed by TB 1-1520-237-20-205.

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

c. The purpose of this TB is to inspect all Swage Pins and Collars on Collective and Yaw Boost Servo assemblies for proper installation.

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

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NSN
SERVO ASSY, COLLECTIVE	274600-1045	1650-01-140-0967
SERVO ASSY, YAW	274600-1047	1650-01-143-1227

7. Parts to be Inspected. N/A.

NOMENCLATURE	PART NUMBER	NSN
COLLAR, GROOVED PIN	NAS1080C06	5320-00-551-8000
COLLAR, GROOVED PIN	NAS1080C08	5320-00-551-8001
PIN-RIVET, GROOVED	NAS1446-08	5320-00-559-2910
PIN-RIVET, GROOVED	NAS1446-28	5320-01-043-0065

NOMENCLATURE	PART NUMBER	NSN
PIN-RIVET, GROOVED	NAS1446-29	5320-00-534-0831
PIN-RIVET, GROOVED	NAS1448-14	5320-00-551-0177
PIN-RIVET, GROOVED	NAS1448-20	5320-00-551-0174
PIN-RIVET, GROOVED	NAS1448-22	5320-00-558-3231
PIN-RIVET, GROOVED	NAS1448-31	5320-00-273-1675

8. Inspection Procedures.

- a. Prepare aircraft for safe ground maintenance.
- b. Gain access to Collective Boost and Yaw Boost Servo assemblies.

NOTE

The following steps are to be performed on both the Collective Boost and Yaw Boost Servos.

- c. Conduct a visual inspection of the Servo assemblies for loose Collar and/or Swage Pin (Four on Yaw Boost assembly and six on Collective Boost assembly).
- d. Apply finger pressure to each fastener (Pin/Collar) to check for rotation or axial motion. (Refer to TM 1-1520-237-23-6, paragraph 11-3-7.1 or TM 1-1520-250-23-5, paragraph 11.13.1.2).

NOTE

The Swage Pins and Collars that connect the input valve lever to the valve linkage may rotate in the mount as an assembly. However, no Collar is allowed to rotate on any Swage Pin.

- e. If any Collar is missing or rotates on Pin, or if any Pin and Collar assembly rotates in mount (Except as noted above), or if any Collar has axial motion as described in TM 1-1520-237-23-6, paragraph 11-3-7.1 or TM 1-1520-250-23-5, paragraph 11.9.1.2, proceed as follows:

- (1) Make the following entry on the DA Form 2408-13-1. Enter a Red //X// status symbol with the following statement: "Swage Pins on (Collective and/or Yaw Boost Servo) assembly unserviceable IAW TB 1-1520-237-20-252."

- (2) Perform correction procedures IAW paragraph 9.

- (3) Clear entry from paragraph 1.a. and report IAW paragraph 14.

- f. If no discrepancies are found, inspection is complete. Clear entry from paragraph 1.a. and report IAW paragraph 14.

9. Correction Procedures. If any Collar is missing or rotates on Pin, or if any Pin and Collar assembly rotates in mount (Except as noted above), or if any collar has axial motion as described in TM 1-1520-237-23-6, paragraph 11-3-7.1 or TM 1-1520-250-23-5, paragraph 11.9.1.2, replace Boost Servo assembly IAW TM 1-1520-237-23-6 or TM 1-1520-250-23-5.

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) "X1R" (X-RAY-ONE-ROMEO).

NOTE

Project code "X1R" is required to track and establish a data base of stock fund expenditures incurred by the field as result of TB actions.

- c. Bulk and Consumable Materials - N/A.
- d. Disposition - Hold any discrepant part/component pending disposition instructions from logistical point of contact in paragraph 16.

e. Disposition of Hazardous Material - IAW environmental protection agency directives as implemented by your servicing environmental coordinator (AR 200-1).

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

12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM maintenance. Report aircraft Non-Mission Capable Maintenance (NMCM) while undergoing inspection and correction IAW this Technical Bulletin. Report aircraft Non-Mission Capable Supply (NMCS) while waiting for parts IAW this Technical Bulletin.

b. Estimated Time Required.

(1) Time to Complete Inspection - Total of 1 man-hour using one person.

(2) Time For Repair/Replacement -

(a) Total of 8 man-hours using 2 persons.

(b) Total of 4 hours downtime for one end item.

c. Estimated cost impact to the field.

NOMENCLATURE	PART NUMBER/NSN	QTY	COST EA.	TOTAL
SERVO, COLLECTIVE	274600-1045 1650-01-140-0967	1	\$11,157.83	\$11,157.83
SERVO, YAW	274600-1047 1650-01-143-1227	1	\$17,241.74	\$17,241.74

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. Depot Maintenance Work Requirement, DMWR 1-1650-382 for Collective Boost Servo assembly and Yaw Boost Servo assembly shall be changed to reflect this Technical Bulletin. A copy of this TB shall be inserted in the appropriate publication as authority to implement the change until the printed change is received.

13. References.

a. DA PAM 738-751, 15 Mar 99.

b. TM 1-1520-237-23-6, 29 May 98.

c. TM 1-1520-250-23-5, 28 Jun 00.

14. Recording and Reporting Requirements.

NOTE

If reporting requirements have already been accomplished IAW UH-60-02-ASAM-05, then the following reporting requirements in this TB have already been met, and are not required again.

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 Cdr, AMCOM, ATTN: AMSAM-SF-A (ASAM Compliance Officer), Redstone Arsenal, AL 35898-5000, IAW AR 95-1, NLT date specified in paragraph 3.. Datafax number is DSN 897-2111 or (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. Upon completion of inspection, commanders will forward a priority message, to the Logistical point of contact listed in paragraph 16.b. NLT 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.

NOTE

A standard report for this inspection can be viewed at "www.redstone.army.mil/sof/suppl/u60a0206.xls" or "www.uhpo.redstone.army.mil".

b. Wholesale Spare Parts/Assemblies.

(1) Reporting TB receipt. Depot and material activity commanders will report receipt of this TB by mail or datafax to the Wholesale Material (spares) point of contact listed in paragraph 16.c. NLT date specified in paragraph 1.e.(1). Provide local point of contact.

(2) Task/Inspection Reporting Suspense. Depot and material activity commanders will provide a DD Form 1225 to the Wholesale Material (spares) point of contact listed in paragraph 16.c. NLT specified date in paragraph 1.e.(1). Provide an estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraph 6 to a work area, unpack the material, repack the material after inspection by AMCOM inspectors, and to return the material to storage, as appropriate. Report, by original serviceable condition code, the quantity of material placed in condition code //J//. Report by email or datafax and provide local point of contact.

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

(1) Reporting TB receipt. N/A.

(2) Task/Inspection Reporting Suspense. Commanders and facility managers will report inspection results to the Logistical point of contact in paragraph 16.b. NLT 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 1575/DD Form 1575-1, Suspended Tag/Label - Material (color brown). Annotate remarks block with "Suspended IAW TB 1-1520-237-20-252".

(5) DD Form 1577-2/DD Form 1575-3, Unserviceable (repairable) Tag/Label - Material (color green). Annotate remarks block with "Unserviceable IAW TB 1-1520-237-20-252".

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact is Mr. Ralph Vemmer, AMSAM-RD-AE-I-D-U, DSN 897-2350 ext 9717, comm 256-705-9717, Alternate 256-705-9719, Datafax 256-705-9896. Email is "ralph.vemmer@rdec.redstone.army.mil".

b. Logistical point of contact is Mr. Joe Hoover, SFAE-AV-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 point of contact (Spares) is Ms. Pat Landefeld, AMSAM-MMC-VS-UA, DSN 897-1194 or (256) 313-1194, Datafax is DSN 746-5491. Email is "patricia.landefeld@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 or (256) 876-4904. Email is "ann.waldeck@redstone.army.mil".

e. Safety points of contact are:

(1) Primary – Mr. Randall Rushing (SAIC), AMSAM-SF-A, DSN 897-2092 or (256) 313-2092, Fax is DSN 897-2111 or (256) 313-2111. Email is "randall.rushing@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".

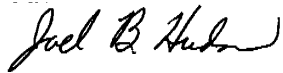
f. Foreign Military Sales recipients requiring clarification of action advised by this TB should contact Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6856 or (256) 313-6856. Datafax is DSN 897-6630 or (256) 313-6630. Email "ronnie.sammons@redstone.army.mil".

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. A reply will be furnished directly to you. You may also submit your recommended changes by email directly to 2028@redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual."

By Order of the Secretary of the Army:

Official:



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

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

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 314047, requirements for TB 1-1520-237-20-252.

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.