

# URGENT

\*TB 1-1520-237-20-255

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### SAFETY OF FLIGHT, TECHNICAL, RCS CSGLD-1860 (R1), MAIN MODULE PLANETARY CARRIER ASSEMBLY, UH-60A, EH-60A AND UH-60Q SERIES AIRCRAFT

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

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**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 message, make the following entry on the DA Form 2408-13-1. Enter a red dash // - // status symbol with the following statement: "Inspect Aircraft IAW TB 1-1520-237-20-255, prior to next flight but NLT 7 May 02. 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 no later than 7 May 02. Commanders that 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. Same as paragraph 1.a..

c. Aircraft in Transit. 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 the next flight but NLT 7 May 02 and report IAW paragraph 14.a.(2) NLT 8 May 02.

**3. TAMMS Reporting Compliance Suspense Date.** Report compliance IAW paragraph 14.a.(1) NLT 8 May 02.

\* This TB supersedes USAAMCOM Safety Of Flight (SOF) messages, 012230Z MAY 02 (UH-60-07) and 041815Z MAY 02, (UH-60-02-08).

**4. Summary of Problem -**

a. During investigation of a CAT 1 QDR, a cracked planetary carrier was found in a main transmission module. The gearbox had been returned to CCAD following an in-flight incident of low transmission oil pressure. UH-60-02-07 placed immediate restrictions on UH-60A/EH-60A/UH-60Q aircraft pending investigation. Detailed analysis of the failure mechanism is underway. While the root cause of the failure has not yet been positively determined, analysis indicates that Main Modules with lower TSN are not expected to experience this problem. Restrictions are therefore being removed for aircraft with Main Modules having less than 1500 hours time since new (TSN).

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

c. The purpose of this TB is to -

(1) Supersede Safety Of Flight (SOF) messages, 012230Z MAY 02 (UH-60-02-07) and 041815Z MAY 02, (UH-60-02-08).

(2) Require records check to determine TSN of all UH-60A, EH-60A and UH-60Q Main Modules.

(3) Remove restrictions on aircraft having Main Modules with less than 1500 hours TSN.

**5. End Items to be Inspected.** All UH-60A, EH-60A and UH-60Q series aircraft

**6. Assembly Components to be Inspected.**

NOMENCLATURE	PART NO.	NSN
Transmission Mech Module	70351-08100-053	1615-01-076-1260
Transmission Mech Module	70351-08100-054	1615-01-105-1450
Transmission Mech Module	70351-08100-055	1615-01-129-7330
Transmission Mech Module	70351-08100-056	1615-01-105-8713
Transmission Mech Module	70351-08100-057	1615-01-134-7274
Transmission Mech Module	70351-08100-058	1615-01-128-1749
Transmission Mech Module	70351-08100-059	1615-01-145-3928
Transmission Mech Module	70351-08100-060	1615-01-168-2983
Transmission Mech Module	70351-08100-061	1615-01-284-6419
Transmission Mech Module	70351-08100-069	1615-01-316-2658
Transmission Mech Module	70351-08100-070	1615-01-316-2659
Transmission Mech Module	70351-08100-071	1615-01-375-5846
Transmission Mech Module	70351-08100-072	1615-01-375-5847
Transmission Mech Module	70351-08100-073	1615-01-413-7786
Transmission Mech Module	70351-08100-074	1615-01-415-8387

**7. Parts to be Inspected.** - N/A.

**8. Inspection Procedures.**

a. Ensure initial inspection and reporting requirements of UH-60-02-07 have been completed.

b. If anomalies are found IAW UH-60-02-07 or this TB, contact the Technical POC (Point Of Contact) for further guidance.

c. Conduct records check (DA Form 2408-16, Transmission Mech Module) to determine the current total TSN on the Main Module.

## 9. Correction Procedures.

a. Clear the circled red // X // entry required IAW paragraph 1.a. of UH-60-02-07 and the red dash // -- // IAW paragraph 1.a. of this TB.

### NOTE

One-time flights previously approved IAW UH-60-02-07, regardless of TSN, are still authorized. New requests for one-time flights must be requested through waiver procedures IAW AR 95-1, paragraph 6-6.a..

Ground run-ups are authorized regardless of TSN.

### WARNING

Keep the area around the aircraft clear of non-essential personnel during ground run-up of aircraft with Main Modules with over 1500 hours TSN.

b. If the Main Module TSN equals 1500 hours or greater, enter a circled red // X // status symbol on the DA Form 2408-13-1 with the following statement: "Aircraft restricted to Medevac and combat operations only IAW TB 1-1520-237-20-255". Only mission essential flights (Medevac and combat) approved by commanders, 0-5 or above, are permitted for aircraft with Main Modules with 1500 hours TSN or greater.

c. If the Main Module TSN is less than 1500 hours TSN, make the following red dash // - // entry on the DA Form 2408-13-1: "Comply with requirements of TB 1-1520-237-20-255 at [####] hours". (Calculate [####] as 1500 hours TSN on Main Module).

### NOTE

Commanders are urged to use aircraft with the lowest time modules installed when possible.

d. Aircraft experiencing transmission oil pressure fluctuations, sudden drop of transmission oil pressure of 10 PSI or more, low transmission oil pressure, or Main Module sump chip light indications, will land as soon as possible. The unit must contact the Technical POC for further guidance. Required information will consist of symptoms experienced, total time since new on the main transmission, indicated oil quantity level and if presence of any debris evidenced on the screens or main oil filter. Retain any debris found for analysis.

## 10. Supply/Parts and Disposition.

### NOTE

HQDA-ADCS-G-3 will prioritize units and repair parts distribution.

a. Parts required - Items cited in paragraph 6 may be required to replace defective items.  
 b. Requisition replacement parts using normal supply procedures. All requisitions shall use project code (CC 57-59) "XE1" (X-Ray-Echo-One ).

### NOTE

Project code "XE1" 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 - As required IAW TM 1-1520-237-23-4, paragraph 6-4-1.1, "Replace Main Transmission".

d. Disposition -Dispose of removed parts/components using normal supply procedures. All turn-in documents must include project code (CC 57-59) "XE1" (X-RAY-ECHO-ONE).

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 message. Report aircraft non-mission capable supply (NMCS) while waiting for parts IAW this TB. Aircraft without anomalies may be reported FMC until further notice.

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 repair/replacement -

(a) Total of 144 man-hours using 4 persons.

(b) Total of 36 hours downtime for one end item.

c. Estimated cost impact to the field - TBD.

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 1-1520-237-23-1, 29 May 1998.

c. TM 1-1520-237-23-4, 29 May 1998.

d. TM 1-1520-237-MTF, 31 March 1997.

e. TM 1-500-328-23, 30 July 1999.

f. TM 1-1520-237-23-9, 29 May 1998.

**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 effected aircraft, commanders will forward a priority message, fax or email to: CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, IAW ar 95-1, NLT date specified in paragraph 3.. Fax 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 on DA Form 2408-13-1, the aircraft mission design series and aircraft serial numbers in numerical order.

#### NOTE

If the task/inspection report IAW UH-60-02-07, paragraph 14.a.(2) has been completed, no additional task/inspection report is required.

A standard report for the task/inspection report can be obtained at (use lower case letters only) "www.redstone.army.mil/sof/suppl/u60s0208.xls" or "www.uhpo.redstone.army.mil".

(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 this TB number, date of inspection, aircraft and component 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. - 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 March 1999.

#### 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 2408-14-1, Uncorrected Fault Record.
- (4) DA Form 2408-15, Historical Record For Aircraft .
- (5) DA Form 2408-16, Aircraft Component Historical Record.

**15. Weight and Balance.** As required.

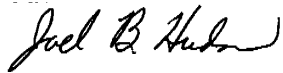
**16. Points of Contact.**

- a. Technical POC's are -
  - (1) Primary - Mr. Scott Abernathy, AMSAM-RD-AE-P-T, DSN 897-2350, ext 5203 or (256) 319-5203. Fax is (256)705-9922, Email is "scott.abernathy@rdec.redstone.army.mil".
  - (2) Alternate # 1 - Mr. Jim Conner, AMSAM-RD-AE-P-S, DSN 897-2350 ext 5219 OR (256) 319-5219. Email is "jim.conner@rdec.redstone.army.mil".
  - (3) Alternate # 2 - Mr. Mark Jeude, (256) 319--5233. Fax is, (256) 705-9922. Email is "mark.jeude@rdec.redstone.army.mil".
- b. Logistical point of contact is Mr. Joe Hoover, SFAE-AV-UH-L, DSN 645-7898 or (256) 955-7898, fax is DSN 897-3778 or (256)313-3778. Email is "joe.hoover@uh.redstone.army.mil"
- c. Wholesale Materiel POC (Spares) - N/A.
- d. Forms and Records point of contact is Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or (256) 897-5564, fax 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, fax 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. fax 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), or DA Form 2028-2 located in the back of this manual, directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM--MMC--MA--NP, Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also provide DA Form 2028 information to AMCOM via e-mail, fax, or the World Wide Web. Our fax number is: DSN 788-6546 or Commercial 256-842-6546. Our e-mail address is: 2028@redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028. For the World Wide Web use: <https://amcom2028.redstone.army.mil>.

By Order of the Secretary of the Army:

Official:



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**DISTRIBUTION:**

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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.