

URGENT

*TB 1-1520-228-20-86

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

ONE-TIME INSPECTION OF MAIN TRANSMISSION CHIP DETECTOR FOR ALL OH-58A/C AIRCRAFT

Headquarters, Department of the Army, Washington, D. C.
05 September 2001

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

1. **Priority Classification.** URGENT

NOTE

IAW AR 95-1, paragraph 6-6.a and 6-14.a., MACOM commanders may authorize temporary exception from TB/SOF 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 main transmission chip detector IAW TB 1-1520-228-20-86 (OH-58-01-03) within the next 10 flight hours, but NLT 24 July 2001.". Clear the **Red Horizontal Dash (-)** entry when the procedures IAW paragraph 8. and 9. are completed. The affected aircraft shall be inspected as soon as practical, but no later than 24 July 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.** Same as paragraph 1.a.

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.

*This TB supersedes USAAMCOM Safety of Flight (SOF) Message OH-58-01-03, 101230Z JUL 01.

e. **Component/Parts in Stock at All Levels (Depot 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: "TB 1-1520-228-20-86 (OH-58-01-03), OH-58A/C main transmission chip detector not complied with."

(1) **Wholesale Stock.** Report receipt of this TB IAW paragraph 14.b.(1) NLT 17 July 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 TB IAW paragraph 14.b.(2) NLT 24 July 2001.

(2) **Retail Stock.** Report receipt of this TB IAW paragraph 14.c.(1) NLT 17 July 2001. 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. Report compliance with this TB IAW paragraph 14.c.(2) NLT 24 July 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 paragraph 8. within the next 10 flight hours, but NLT 24 July 2001.

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

4. **Summary of the Problem.**

a. Bell Helicopter has become aware that some chip detectors manufactured by Eaton Tedeco Products (P/N B3188B) could possibly have poor or no continuity between the insert and the chip detector housing. This could result in no chip indication when the chip detector has been bridged by metal particles.

b. **For Manpower/Downtime and Funding Impacts,** see paragraph 12.

c. **The purpose of this TB** is to determine the serviceability of the Tedeco main transmission chip detector (P/N B3188B).

5. **End Items to be inspected.** All OH-58A/C series aircraft.

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

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Transmission, Main	206-040-003-23	1615-01-034-0405

7. **Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Detector, Metallic Particle	B3188B	2995-00-179-4130

8. Inspection Procedures.

a. For chip detectors installed on the aircraft:

- (1) Remove the chip detector probe from the self-closing valve.
- (2) Supply electrical power to the chip detector.
- (3) Hold the tip of the center stud of the chip detector probe firmly against the steel insert of the self-closing valve and check the cockpit chip detector light.
- (4) If the light illuminates the inspection is complete. Reinstall the detector IAW TM 55-1520-228-23 and clear the Red Horizontal Dash (-) entry.
- (5) If the light does not illuminate, proceed to paragraph 9.

b. For chip detectors in supply:

NOTE

To inspect the chip detector off of the aircraft, the following is required: a 28 volt dc power source; a 700 ohm, 2 watt resistor; and an analog ohmmeter.

- (1) With the 700 ohm resistor between the chip detector and the positive lead, connect the positive terminal of the power supply to the chip detector probe body.
- (2) Connect the negative terminal of the power supply to the chip detector valve housing.
- (3) Apply power and use the voltmeter to measure the voltage between the chip detector probe body and valve housing.
- (4) If the voltage is 0.20 volts or less the valve is serviceable. Repack the check valve and annotate the serviceability tag "TB 1-1520-228-20-86 (OH-58-01-03), main transmission chip detector, complied with."
- (5) If the voltage is greater than 0.20 volts, proceed to paragraph 9.

9. Correction Procedure. Replace the chip detector with a serviceable one and clear the Red Horizontal Dash (-) entry. Dispose of discrepant detectors IAW paragraph 10.d.

10. Supply/Parts and Disposition.

a. **Parts Required.** Items cited in paragraph 7. 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) X1F.

NOTE

Project code "X1F" is required to track and establish a database of stock fund expenditures incurred by the field as a result of SOF actions.

c. **Bulk and Consumable Materials.** N/A.

d. **Disposition.** Demilitarize/mutilate IAW TM 1-1500-328-23 any part/component which does not meet inspection criteria.

e. **Distribution of Hazardous Material.** N/A.

11. Special Tools, Jigs and Fixtures Required. N/A.

12. Application.

a. **Category of Maintenance.** AVUM. Downtime will be charged to AVUM maintenance. Report aircraft non-mission capable maintenance (NMCM) while undergoing inspection and correction IAW this TB. Report aircraft non-mission capable supply (NMCS) while waiting for parts IAW this TB.

b. **Estimated Time Required.**

- (1) Time to complete inspection:
 - (a) Total of 0.5 man-hours using 2 persons.
 - (b) Total of 0.5 hours downtime for one end item.
- (2) Time for repair/replacement:
 - (a) Total of 0.5 man-hours using 1 person.
 - (b) Total of 0.5 hours downtime for one end item.

c. **Estimated Cost Impact of Stock Fund Items to the Field.**

NOMENCLATURE	P/N	NSN	QTY.	COST EA.	TOTAL \$
Detector, Metallic Particle	B3188B	2995-00-179-4130	1	\$279.94	\$279.94

Total Cost per Aircraft = \$279.94

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 Mar 99.
- b. TM 55-1520-228-23.
- c. TM 1-1500-328-23.

14. **Recording and Reporting Requirements.**

a. **Aircraft.**

(1) **Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of this TB on DA Form 2408-13-1 for all effected aircraft, commanders will forward a priority message, datafax or e-mail 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. Datafax number is DSN 897-2111 or (256) 313-2111. E-mail address is <safeadm@redstone.army.mil>. The report will cite this TB and 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 (Aircraft).** No special report of the results of this inspection is required.

b. **Wholesale Spare Parts/Assemblies.**

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

(2) **Task/Inspection Reporting Suspense.** Depot and materiel activity commanders will provide a DD Form 1225 to the wholesale materiel POC (spares) listed in paragraph 16.c. NLT 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, as appropriate. Report, by original serviceable condition code, the quantity of materiel placed in condition code J. Report by e-mail or datafax and provide local point of contact.

c. Retail Spare Parts/Assemblies.

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

(2) Task/Inspection Reporting Suspense. Commanders and facility managers will report inspection results to the logistical POC 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 e-mail 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 March 1999:

NOTE

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

(1) DA Form 2408-5-1, Equipment Modification Record (main transmission).

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

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

(4) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label-Materiel (color yellow). Annotate remarks block with "Inspected Serviceable IAW TB 1-1520-228-20-86 (OH-58-01-03).".

(5) DD Form 1575/DD Form 1575-1, Suspended Tag/Label-Materiel (color brown). Annotate remarks block with "Suspended IAW TB 1-1520-228-20-86 (OH-58-01-03).".

(6) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label - Materiel (color red). Annotate remarks block with "Unserviceable IAW TB 1-1520-228-20-86 (OH-58-01-03).".

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Thaddeus Baranowski, AMSAM-RD-AE-I-D-O, DSN 645-9625 or (256) 955-9625. Datafax is (256) 955-9536. E-mail is <thaddeus.baranowski@redstone.army.mil>.

b. Logistical point of contact for this TB is Ms. Sue Lewis, AMSAM-DSA-AS-ASH-L, DSN 645-8249 or (256) 955-8249. Datafax is (256) 955-9536. E-mail is <susan.lewis@redstone.army.mil>.

c. Wholesale materiel points of contact for this TB are:

(1) Spares: Mr. Greg Sprouse, DSCR-XBC, DSN 695-5310 or (804) 279-5310. E-mail is <gsprouse@dscr.dla.mil>.

(2) Transmissions: Mr. Dale Uckele, AMSAM-MMC-AV-SA, DSN 897-1542 or (256) 313-1542. E-mail is <dale.uckele@redstone.army.mil>.

d. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or (256) 876-5564. Datafax is DSN 746-4904. E-mail is <ann.waldeck@redstone.army.mil>.

e. Safety points of contact for this TB are:

(1) Primary: Mr. Harry Trumbull (SAIC), AMSAM-SF-A, DSN 897-2095 or (256) 313-2111. Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <harry.trumbull@redstone.army.mil>.

(2) Alternate: Mr. Ron Price, AMSAM-SF-A, DSN 788-8636 or (256) 842-8636. Datafax is (256) 313-2111. E-mail is <ron.price@redstone.army.mil>.

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

(1) Primary: Mr. Ronnie W. Sammons, Security Assistance Management, AMSAM-SA-CS-NF, DSN 897-6856 or (256) 313-6856. Datafax is DSN 897-6630 or (256) 313-6630. E-mail is <ronnie.sammons@redstone.army.mil>.

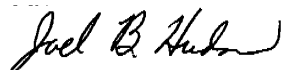
(2) Alternate: Mr. Paul W. Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or (256) 313-6861. Datafax is DSN 897-6630 or (256) 313-6630. E-mail is e-mail <tarrpw@redstone.army.mil>.

g. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067. Huntsville, AL. is GMT minus 6 hrs.

17. Reporting of Errors and Recommending 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, Alabama 35898-5000. A reply will be furnished to you. You may also send in your comments electronically to our E-mail address: <2028@redstone.army.mil> or by datafax: DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a 2028 by E-mail may be found at the back of most TMs.

By Order of the Secretary of the Army:

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