URGENT

TB 1–1520–240–20–147

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

MANDATORY INSPECTION FOR IMPROPERLY MANUFACTURED/ASSEMBLED FUEL CONTROL RELAY BOXES ON ALL CH-47D, CH-47F AND MH-47D AIRCRAFT

Headquarters, Department of the Army, Washington, D. C.
17 June 2002

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

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

NOTE

In accordance with AR 95-1, paragraph 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.

1. Priority Classification. Urgent
   a. Aircraft in Use. Upon receipt of this Technical Bulletin (TB) make the following entry on the DA Form 2408-13-1. Enter a red horizontal dash ////--// status symbol with the following statement: “Inspect fuel control relay box in accordance with CH-47-02-ASAM-03 (TB 1-1520-240-20-147) within the next 10 flight hours, but no later than 26 June 2002.” Clear the red horizontal dash ////--// entry when the procedures in accordance with paragraph 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical but no later than 26 June 2002. Commanders who are unable to comply with the requirements of this Technical Bulletin 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 1a.
      (2) Aircraft at Contractor Facility - Boeing will inspect DD 250 aircraft prior to those aircraft departing for ferry to final destination.
   c. Aircraft in Transit.
      (1) Surface/Air Shipment - same as paragraph 1a.

This TB supersedes USAAMCOM Message, 121715Z Jun 02
(2) Ferry status - same as paragraph 1a.

d. Maintenance Trainers (Category A and B). Same as paragraph 1a.

e. Component/Parts in Stock at all levels (depot and others) including War Reserves - upon receipt of this message, depot and materiel activity commanders will ensure the materiel condition tags of all items in all condition codes listed in paragraph 6 are annotated to read: “CH-47-02-ASAM-03 (TB 1-1520-240-20-147) inspect fuel control relay box not complied with.”

(1) Wholesale Stock – N/A.

(2) Retail Stock – 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 in accordance with paragraphs 8 and 9 on suspect materiel. Dispose of discrepant materiel in accordance with paragraph 10. Report compliance with this message in accordance with paragraph 14c (2) no later than 25 June 2002

f. Components/Parts in Work (depot level and others) - depot and other maintenance activity commanders will ensure items listed in paragraph 7 are not issued until they are in compliance with this message.

2. Task/Inspection Suspense Date. Complete the inspection in accordance with paragraph 8 within 10 flight hours but no later than 26 June 2002 and report in accordance with paragraph 14A (2) no later than 2 July 2002.

3. TAMMS Reporting Compliance Suspense Date. Report compliance in accordance with paragraph 14a (1) no later than 2 July 2002.

4. Summary of the Problem.

a. This ASAM results from a Category I deficiency report. A CH-47D experienced an inoperative right hand side main aft fuel boost pump during flight caused by improper manufacture/assembly of the wiring harness in the fuel control relay box. The wiring did not have terminal lugs installed, wire identification was improperly marked, and wire ends were directly wrapped and attached to the relay screws. In this particular relay box, six (6) wires were completely broken and one (1) wire was partially broken.

b. For manpower/downtime and funding impacts, see paragraph 12.

c. The purpose of this Technical Bulletin is to:

(1) Inspect for improperly manufactured fuel control relay box.

(2) Repair or replace as required defective fuel control relay box.

5. End Items to be inspected. CH-47D/CH-47F/MH-47D aircraft. (MH-47E aircraft do not use this box)

6. Assembly Components to be Inspected.

<table>
<thead>
<tr>
<th>NOMENCLATURE</th>
<th>PART NUMBER</th>
<th>NATIONAL STOCK NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay assembly</td>
<td>145E2195-1</td>
<td>5945-01-298-7845</td>
</tr>
</tbody>
</table>

7. Parts to be Inspected.

<table>
<thead>
<tr>
<th>NOMENCLATURE</th>
<th>PART NUMBER</th>
<th>NATIONAL STOCK NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal, lug</td>
<td>BACT12AC2</td>
<td>5940-00-204-8966</td>
</tr>
</tbody>
</table>

8. Inspection Procedures. Open the fuel control relay box cover, TM 55-1520-240-23-8 task 10-116.1, and inspect wiring and connections for proper assembly and installation of the wiring harness and terminal lugs.

a. If the wiring harnesses are properly marked and terminal lugs and connections are properly marked and connected, the inspection is complete and the red horizontal dash //−// entry may be cleared.
b. If the wiring harness has not been properly assembled and installed, clear the red dash //–// entry required by paragraph 1A and enter the following red diagonal \/\\ “Fuel control relay wiring harness improperly installed”

c. Make the following circle red //X// entry on the 2408-13-1 “A/C restricted to flights below 6000’ MSL IAW CH-47-02-ASAM-03 (TB 1-1520-240-20-147)”. Perform correction procedures in accordance with paragraph 9.

9. Correction Procedures.

a. If a replacement box is available, remove and replace the fuel pump relay box in accordance with TM 55-1520-240-23-8, task 116.1 and task 116.2.

b. If a replacement box is not available, call the technical point of contact for wiring harness repair instructions.

c. Once discrepant boxes have been replaced or wiring harness repaired, the red diagonal \/\\ and circle red //X// entries will be cleared.

10. Supply/Parts and Disposition.

a. Parts Required. Items cited in paragraph 12c 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) “X1U” (X-RAY–ONE–UNIFORM).

NOTE
Project code “X1U” is required to track and establish a database of stock fund expenditures incurred by the field as a result of message actions.

c. Bulk and Consumable Materials. Terminal, lug BACT12AC2 5950-00-204-8966

d. Disposition. Dispose of any discrepant part/component through the normal supply system.

e. Disposition of Hazardous Material. N/A.

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


a. Category of Maintenance – AVUM. Aircraft downtime will be charged to AVUM. Report aircraft non-mission capable maintenance (NMCM) while undergoing inspection and correction in accordance with this message. Report aircraft non-mission capable supply (NMCS) while waiting for parts in accordance with this message.

b. Estimated Time Required.

(1) Time to complete inspection –
   (a) Total of 0.5 man-hours using 1 person
   (b) Total of 0.5 hours downtime for one end item.

(2) Time for repair/replacement –
   (a) Total of 3 man-hours using 3 persons.
   (b) Total of 1 hour downtime for one end item.

c. Estimated Cost Impact to the Field.

<table>
<thead>
<tr>
<th>NOMENCLATURE</th>
<th>PART NUMBER/ NATIONAL STOCK NUMBER</th>
<th>QUANTITY</th>
<th>COST EACH</th>
<th>TOTAL $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay, assembly</td>
<td>145E2195-1 5945-01-298-7845</td>
<td>1</td>
<td>$6428.80</td>
<td>$6428.80</td>
</tr>
<tr>
<td>Terminal, lug</td>
<td>BACT12AC2 5940-00-204-8966</td>
<td>32</td>
<td>$5.50 HD</td>
<td>$1.76</td>
</tr>
</tbody>
</table>

Total cost per aircraft = $6430.56
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 55-1520-240-23

14. Recording and Reporting Requirements.
   a. Aircraft –
      (1) TAMMS Reporting Compliance Suspense – Upon entering requirements of this Technical Bulletin on DA Form 2408-13-1 for all effected aircraft, Commanders will forward a priority message, datafax or e-mail to Commander, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, in accordance with AR 95-1, no later than date specified in paragraph 3. Datafax number is DSN 897–2111 or commercial (256) 313–2111. E-Mail address is “safeadm@redstone.army.mil”. The report will cite this message 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 – Upon completion of inspection, commanders will forward a priority message to the logistical point of contact listed in paragraph 16b. The report will cite this message and TB number, date of inspection, aircraft serial number, aircraft and component hours, and results of the inspection. Inspection and reports will be completed no later than date specified in paragraph 2.
   b. Wholesale Spare Parts/Assemblies – N/A.
   c. Retail Spare Parts/Assemblies –
      (1) Reporting Message Receipt - Commanders and facility managers will report receipt of this message by e-mail or datafax to the logistical point of contact listed in paragraph 16b no later than date specified in paragraph 16.
      (2) Task/Inspection Reporting Suspense – Commanders and Facility Managers will report inspection results to the logistical point of contact in paragraph 16b no later than date specified in paragraph 16e (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 Mar 1999:

      NOTE
      ULLS-A users will use applicable “E” forms.
      (1) DA Form 2408-13, Aircraft Status Information.
      (2) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
      (3) DA Form 2408-15, Historical Record for Aircraft.
      (4) DD Form 1577-2/DD Form 1577-3, Unserviceable (Repairable) Tag/Label – Material (color green). Annotate remarks block with “Unserviceable IAW CH-47-02-ASAM-03 (TB 1-1520-240-20-147).”

15. Weight and Balance. N/A.

16. Points of Contact.
   a. Technical points of contact for this TB are:
      (1) Primary – Larry Wieschhaus, AMSAM-RD-AE-I-P-C, DSN 897-2350 ext. 9866 or commercial (256)705–9866, datafax is (256) 705–9818. E-mail is “larry.wieschhaus@rdec.redstone.army.mil”.
      (2) Alternate – Mr. Larry Smith, AMSAM-RD-AE-I-P-C, DSN 897-2350 ext. 9859 or commercial (256)705–9859, datafax is (256) 705–9818. E-mail is “larwrence.smith@rdec.redstone.army.mil”
b. Logistical point of contact for this TB is Mr. Bill Olson, SFAE-AV-CH-L, DSN 897-3379 or commercial (256) 313-3379, fax is DSN 897-4348 or commercial (256) 313-4348. E-mail is "william.olson@peoavn.redstone.army.mil".

c. Wholesale Materiel point of contact (SPARES) is – Logistics Point of Contact listed at paragraph 14B.

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

e. Safety points of contact are:
   (1) Primary – Mr. Frank Rosebery (SAIC), AMSAM–SF–A, DSN 788–8631 or commercial (256) 842–8631, datafax is DSN 897–2111 or commercial (256) 313–2111. E-mail is “frank.rosebery@redstone.army.mil”.
   (2) Alternate – Mr. Russ Peusch, AMSAM-SF-A, DSN 788-8632 or commercial (256) 842-8632, fax is DSN 897-2111 or commercial (256) 313-2111. E-mail is “russell.peusch@redstone.army.mil”.

f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact Mr. Ronnie W. Sammons, AMSAM-SA-AS-UT, DSN 897-0407 or commercial (256) 313-0407, Datafax is DSN 897-0411 or commercial (256) 313-0411. E-mail is “ronnie.sammons@redstone.army.mil”.

g. After hours contact AMCOM Command Operations Center (AOC) DSN 897-2066/7 or commercial (256) 313-2066/7.

17. Reporting of Errors and Recommending Improvements. You can help improve this manual. If you find mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM–MMC–MA–NP, Redstone Arsenal, AL 35898–5230. 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. For the World Wide Web use: https://amcom2028.redstone.army.mil.
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
0216812

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.