

URGENT

*TB 1-1520-240-20-99

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

ONE TIME INSPECTION OF ANVIS/HUD POWER SUPPLY FOR ALL CH-47D AND MH-A7D AIRCRAFT

Headquarters, Department of the Army, Washington, D. C.
10 October 1997

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

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. **Priority Classification. Urgent**

a. Aircraft in Use. Upon receipt of this Technical Bulletin (TB) the condition status symbol of the cited aircraft will be changed to a **red horizontal dash "-"**. The **red horizontal dash "-"** may be cleared when the inspection of paragraph 8 below is completed. The affected aircraft shall be inspected as soon as practical but no later than the task/inspection suspense date. Failure to comply with the requirement of this message within the timeframe will cause the status symbol to be upgraded to a red "X".

b. Aircraft in Depot Maintenance. Aircraft will not be issued until compliance with this TB has been completed.

c. Aircraft Undergoing Maintenance. Aircraft will not be issued until compliance with this TB has been completed.

d. Aircraft in Transit.

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

(2) Ferry Status. Inspect at final destination.

(3) Those aircraft that have a DD 250 form and are at Boeing will be inspected prior to ferry to final destination.

e. Maintenance Trainers (Category A, B, and Others). N/A.

f. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others) including war reserves. Upon receipt of this TB, the material condition tags of all items in all condition codes listed in para-

*This TB supersedes USAAMCOM (PROV) Message 291548Z SEP 97 CH-47-97-ASAM-10.

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graphs 6 and 7 shall be annotated to read "CH-47-97-ASAM-10, One Time Inspection of ANVIS/HUD Power Supply, must be complied with prior to installation."

(1) Wholesale Stock. Report receipt of this TB in accordance with paragraph 14C(1). Upon receipt of TB, all serviceable items (condition codes "A", "B", "C", "D", and "E" listed in paragraphs 6 and 7 located in wholesale depot storage shall be 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 TB in accordance with paragraph 14D(1).

(2) Retail Stock. Upon receipt of this TB, Commanders and others maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the inspection required by paragraph 8 and the correction procedures of paragraph 9 on discrepant materiel. Disposition of discrepant materiel will be in accordance with paragraph 10. Report compliance with this message in accordance with paragraph 14D(2).

g. Components/ Parts in Work (Depot Level and Others). Items listed in paragraphs 6 and 7 in work will not be issued until compliance with this TB is complete.

2. Task/Inspection Suspense Date. Within next 10 flight hours/ 14 days.

3. Reporting Compliance Suspense Date. No later than 20 Oct 97 per paragraph 14.a of this TB.

4. Summary of the Problem.

a. The AN/AVS-7 heads up display provides operational symbology to pilots during aviator's night vision imaging system (ANVIS) operations by overlaying the symbology on the image provided by the ANVIS. It was recently discovered that a component part power supply was changed by the vendor without approval, causing the AN/AVS-7 to be susceptible to some power line transients. The AN/AVS-7 system will reset when certain power spikes are received, causing the display to blank for a ten to fifteen second interval while completing the power up sequence. Upon completion of the power up sequence the system will return to its normal start up condition of full dim on the display and display page 1N.

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

c. The purpose of this TB is to:

(1) Require a one-time inspection of all AN/AVS-7 systems to verify installation of the correct power supply component.

(2) Restrict flight operations with the AN/AVS-7 if an incorrect power supply component is installed.

5. End Items to be inspected. All CH-47D and MH-47D aircraft with the AN/AVS-7 installed.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
AN/AVS-7 SIGNAL DATA CONVERTER	CV-4229(V)1/AVS-7(V)	5895-01361-8986

7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
CIRCUIT CARD ASSEMBLY (CCA) A5, POWER SUPPLY MODULE	125118-001	5950-01-370-4022

8. Inspection Procedures. Reference TM 11-5855-300-23&P for detailed instructions.

a. Remove the signal data converter from the aircraft in accordance with reference 13, section 2-17.

b. Remove circuit card assembly A5, power supply module, from the signal data converter in accordance with reference 13, section 2-19.

CAUTION

The parts may be damaged by electrostatic discharge (ESD). Ensure proper ESD precautionary procedures are followed.

c. Locate the manufacturer's date code on the identification plate of the power supply module.

(1) If the date code is less than 9601, the power supply module is good and the unit may be returned to service.

(2) If the date code is greater than or equal to 9601, the power supply module is bad and must be corrected in accordance with the procedures in paragraph 9 below.

d. Once the power supply module date code is verified, reinstall circuit card assembly A5, power supply module, into the signal data converter in accordance with reference 13.

9. Correction Procedures.

a. If the power supply module date code is less than 9601, return the AN/AVS-7 to service and annotate the aircraft log books and component records appropriately.

b. If the power supply module date code was greater then or equal to 9601:

(1) Annotate the aircraft log books, DA Form 2408-13-1, with a circled red "X" in the status block and enter in the fault block "Aircraft restricted from flight operations with the AN/AVS-7 system."

(2) Pull and tie-wrap the aircraft AN/AVS-7 circuit breakers to prevent power up of the AN/AVS-7 system.

10. Supply/Parts and Disposition.

a. Parts Required. Items cited in paragraph 7 may be required to replace unserviceable items.

b. Requisitioning Instructions. If you have a circuit card that meets the criteria of paragraph 8C(2), call TRACOR AEROSPACE, INC., Mr. Keith Holliday at (512) 929-2506, or Mr. J.T. Gill at (512) 929-2084 for a return authorization. Package the card in accordance with local requirements for ESD handling, attach DD Form 1149, requisition and invoice/shipping document with a legible (in the clear) return address and ship the card to the following address: TRACOR AEROSPACE, INC., 6500 TRACOR LANE, ATTN: Roy Gamble, Austin, TX 78725-2070, M/F: Power Supply Rework. A replacement card will be shipped to the address on the DD Form 1149 withing two working days of receipt of the bad card.

c. Bulk and Consumable Materials. N/A.

d. Disposition. N/A

e. Disposition of Hazardous Material. N/A.

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

12. Application.

a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM.

b. Estimated Time Required.

(1) Total of 0.25 man-hours using 1 person.

(2) Total of 0.25 hours downtime for one end item.

c. Estimated Cost Impact to the Field. N/A

d. TB/MWOs to be Applied Prior to or Concurrently with this Inspection. N/A.

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e. Publications Which Require Change as a Result of This Inspection. N/A

13. References. TM 11-5855-300-23&P

14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Date (Aircraft). Upon entering requirements of this TB on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority message, datafax or e-mail to Commander, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), per AR 95-3. Datafax number is DSN 788-8643 or commercial (205)842-8643. E-mail 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.

b. Task/Inspection Reporting Suspense Date (Aircraft). Upon completion of inspection, if the unit has a bad circuit card, forward a priority message, datafax, or e-mail to: Commander, LOGSA, ATTN: AMXLS-AEC (Mark Salverson). Datafax and e-mail addresses are in paragraph 16C. The report will cite this TB number, date of inspection, result of inspection, aircraft serial number, signal data converter serial number, and date circuit card shipped to TRACOR. Inspection and reports shall be completed no later than 14 days after task/inspection suspense date. If no bad circuit cards are found, no report is necessary.

c. Reporting Message Receipt (Spares).

(1) Materiel in Wholesale Depot Storage. Report receipt of this message by e-mail or datafax to the logistical point of contact (POC) listed in paragraph 16C.

(2) Materiel in Retail Storage. Report receipt of this message by e-mail or datafax to the logistical point of contact listed in paragraph 16C.

d. Task/Inspection Reporting Suspense Date (Spares).

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(2) Materiel in Retail Storage. Report receipt of this message by e-mail or datafax to the logistical point of contact listed in paragraph 16C.

e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 June 1992:

(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.

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for the AN/AVS-7 System is Mr. Binh Dinh, AMSAM-AR-ES-C, DSN 788-7033 or commercial (205) 842-7033, E-mail "DINHB@AVRDEC.ARMY.MIL".

b. Safety point of contact for this TB is Mr. Robert Brock, AMSAM-SF-A, DSN 788-8632 or commercial (205) 842-8632, E-mail "BROCK-RD@REDSTONE.ARMY.MIL".

c. Logistical point of contact for the AN/AVS-7 System is Mr. Mark Salverson, SFAE-IEW-NV-LOG, DSN 645-9941 or commercial (205) 955-9941, datafax (205) 955-9916, E-mail "MSALVERS@LOGSA.ARMY.MIL".


d. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-RE-F, DSN 876-5564 or commercial (205) 876-5564. Datafax is DSN 876-4904. E-mail "WALDECK-AB@REDSTONE.ARMY.MIL."

e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or commercial (205) 313-0869. Datafax is DSN 897-0916. Huntsville, AL is GMT minus 6 hours.

f. After hours, contact AMCOM Command Operations Center (COC) DSN 897-2066/7 or commercial (205)313-2066/7

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON

*Administrative Assistant to the
Secretary of the Army*

03851

DENNIS J. REIMER
*General, United States Army
Chief of Staff*

DISTRIBUTION:

To be distributed in accordance with initial distribution number (IDN) 313738, requirements for TB 1-1520-240-20-99.

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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: <mpmt%avma28@st-louis-emh7.army.mib1>

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.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

