

# URGENT

\*TB 1-1520-237-20-204

---

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

---

### MANDATORY MAINTENANCE ONE TIME INSPECTION OF ANVIS/HUD POWER SUPPLY, MH-60K, UH-60A/L AIRCRAFT

---

Headquarters, Department of the Army, Washington, D.C.

11 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THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.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 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 requirements of this Technical Bulletin within the time frame specified 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 paragraph 9 of this TB.

c. Aircraft Undergoing Maintenance. Same as paragraph 1.a.

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 or Sikorsky will be inspected prior to ferry to final destination.

---

\*This TB supersedes USAAMCOM Aviation Safety Action Message 291548Z SEPT 97, UH-60-97-ASAM-19

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

f. Component/Parts in Stock Including War Reserves at all Levels (depot and Others). Upon receipt of this TB, the material condition tags of all items in all condition codes listed in paragraphs 6 and 7 shall be annotated to read "(TB 1-1520-237-20-204, short/abbreviated title)" not complied with.

(1) Wholesale Stock. Report receipt of this TB IAW paragraph 14.c. (1). Upon receipt of this 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 IAW paragraph 14.d. (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 IAW paragraph 10. Report compliance with this TB IAW paragraph 14.d. (2)

g. Component/Parts in work (Depot Level And Others). Items listed in paragraphs 6 and 7 in work will not be issued until compliance with this Technical Bulletin is complete.

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

**3. Reporting Compliance Suspense Date.** No later than 20 October 1997 IAW paragraph 14.a of this TB.

**4. Summary of 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 require a one-time inspection of all AN/AVS-7 systems to verify installation of the correct power supply component and restrict flight operations with the AN/AVS-7 if an incorrect power supply component is installed.

**5. End Items to be inspected.** All MH-60K and UH-60A/L aircraft, with the AN/AVS-7 installed.

**6. Assembly Components to be inspected.**

<u>Nomenclature</u>	<u>Part No.</u>	<u>NSN</u>
AN/AVS-7 Signal Data Converter	CV-4229(V)1/AVS-7(V)	5895-01-361-8986

**7. Parts to be inspected.** Circuit Card Assembly (CCA) A5.

<b>Nomenclature</b>	<b>Part No.</b>	<b>NSN</b>	<b>QTY</b>
Power Supply Module	125118-001	5950-01-370-4022	

**8. Inspection Procedures.**

- a. Remove the signal data converter from the aircraft IAW TM 11-5855-300-23&P.
- b. Remove circuit card assembly A5; power supply module, from the signal data converter IAW TM 11-5855-300-23&P.

**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 is less than 9601, the power supply module is good and the unit may be returned to service.
  - (2) If the date is greater than or equal to 9601, the power supply module is bad and must be corrected per the procedures in paragraph 9 below.
- d. Once the power supply module date is verified, reinstall the CCA into the signal data converter IAW TM 11-5855-300-23&P. Reinstall the signal data converter into the aircraft IAW TM 11-5855-300-23&P.

**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 than 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.** 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 512-929-2084 for return authorization. Package the card IAW 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 within two working days of receipt of the bad card.

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

**12. Application.**

- a. Category of Maintenance. AVUM, aircraft downtime will be charged to AVUM maintenance.
- b. Estimated Time Required for Inspection.
  - (1) Total of 0.25 man-hours using one person.

**TB 1-1520-237-20-204**

(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.

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 Technical Bulletin on DA Form 2408-13-1 for all subject Mission Design Series (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 Technical Bulletin 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).

(1) 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 16.c. 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 was shipped to Tracor. Inspection and reports will be completed no later than 14 days after task/inspection suspense date. If no bad circuit cards are found, no report is necessary.

(2) UH-60 users shall report results of this inspection to the utility helicopters project managers office, Mr. Joe Hoover, DSN 645-7898 or (205) 955-7898. Datafax is DSN 645-6702. E-mail is hoover-ij@redstone.army.mil. Negative reports are required.

c. Reporting Compliance Suspense Date (Spares).

(1) Material in Wholesale Depot Storage - Report receipt of this TB by E-mail or datafax to the Logistical Point of Contact (POC) listed in paragraph 16.c.

(2) Materiel in Retail Storage - Report receipt of this TB by E-mail or datafax to the Logistical Point of Contact listed in paragraph 16.c.

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

(1) Materiel in wholesale Depot Storage - Report compliance with this TB by e-mail or datafax to the Logistical POC listed in paragraph 16.c.

(2) Materiel in Retail Storage - Report compliance with this TB by e-mail or datafax to the Logistical POC listed in paragraph 16.c.

e. The following forms are applicable and are to be completed in accordance with DA Pam 738-751, 15 Jun 92.

(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 points of contact for the AN/AVS-7 system are Ms Cheryl Crow, AMSAT-R-ESC, DSN 693-9935 or commercial 314-263-9935. Datafax (314) 263-1622, E-mail is [crow@avrdec.army.mil](mailto:crow@avrdec.army.mil). Mr. Binh Dinh, AMSAM-AR-ES-C, DSN 788-7033 OR (205) 842-7033, e-mail is [dinhb@avrdec.army.mil](mailto:dinhb@avrdec.army.mil).

b. Safety Point of contact for this TB is Mr. Robert Brock, ASAM-SF-A, DSN 788-8632 or commercial 205-842-8632, E-mail is [brock-rd@redstone.army.mil](mailto: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 is [msalvers@logsa.army.mil](mailto:msalvers@logsa.army.mil) or [salverso@nvl.army.mil](mailto:salverso@nvl.army.mil).

d. Forms and Records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-RE-F, DSN 876-5564 or (205) 876-5564, Datafax is DSN 876-4904. E-mail is [Waldeck-ab@redstone.army.mil](mailto:Waldeck-ab@redstone.army.mil).

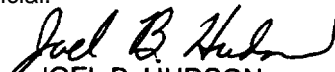
e. Foreign Military Sales (FMS), Recipients requiring clarification of action advised by this TB should contact Mr. Ronnie Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or commercial 205-313-0869. Datafax is DSN 897-0916. (Huntsville, AL is GMT minus 6 HRS)

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

**17. Reporting of Errors and Recommending Improvements.** You can help improve this TB. If you find any mistakes or if you know of a way to improve these procedures, Please let us know. You may submit your recommended changes by E-mail directly to [ls-lp@redstone.army.mil](mailto:ls-lp@redstone.army.mil). A reply will be furnished directly to you. 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  
03856

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

**DISTRIBUTION:**

To be distributed in accordance with Initial Distribution Number (IDN) 313715, requirements for TB 1-1520-237-20-204.

### ELECTRONIC DA FORM 2028 INSTRUCTIONS

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: "Whoever <whoever@avma27.army.mil>

To: ls-lp@redstone.army.mil

Subject: DA Form 2028

1. **From:** Joe Smith
2. Unit: home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** AL
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.



