

URGENT

TB 1-1520-251-20-07

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

REMOVAL OF FLIGHT RESTRICTIONS FOR ALL AH-64D SERIES AIRCRAFT

Headquarters, Department of the Army, Washington, D. C.
18 September 2002

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THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.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 "-" entry shall state "Inspect the aircraft electrical system IAW TB1-1520-251-20-07 prior to next flight". The red horizontal dash "-" may be cleared when the inspection of paragraph 8 and 9 is completed. The affected aircraft shall be inspected prior to next flight but no later than (NLT) 29 May 2002. Failure to comply with the requirements of this TB within the time frame will cause the status symbol to be upgraded to a red "x".

b. Aircraft in Maintenance.

(1) Aircraft in AVUM, AVIM or Depot Level maintenance- Aircraft will not be issued until compliance with this TB has been completed.

(2) Aircraft at Contractor Facility- Those aircraft that have a DD 250 and are at Boeing will be inspected prior to ferry to final destination.

c. Aircraft in Transit.

(1) Surface/Air Shipment. Same as paragraph 1a.

(2) Ferry Status. Same as paragraph 1a

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

e. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others). N/A.

f. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others). N/A

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 NLT 29 May 2002 and report IAW paragraph 14a(2) NLT 3 June 2002.

This TB supersedes USAAMCOM Safety of Flight Message 151830Z May 02 and TB 1-1520-251-20-01.

3. TAMMS Reporting Compliance Suspense Date. Report compliance IAW paragraph 14a(1) NLT 22 May 2002.

4. Summary of the Problem.

a. History- SOF AH-64-02-05 was issued to remove flight restrictions imposed by SOF AH-64-00-08 (TB 1-1520-251-20-01). The purpose of the SOF was to inspect for the installation of suspect High Power Switching Modules (HPSM), and for the installation of MWO 1-1520-251-55-07. Further investigation revealed additional HPSM's that must be considered suspect. With the addition of these suspect HPSM's, it is possible some aircraft released from the flight restrictions imposed IAW AH-64-00-08 may still be at risk.

NOTE

After receipt of this TB and until 31 Jan 03, commanders will notify the POC in paragraph 16b after control exchange of a GCU to ensure proper tracking of MWO 1-1520-251-55-06 application.

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

c. The purpose of this TB is to:

- (1) Revise the serial number listing of suspect HPSM's in paragraph 8a.
- (2) Identify and replace suspect HPSM's.

5. End Items to be inspected. All Army AH-64D aircraft.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
HPSM #1	7-511B11087-1 (IP 386SUE1)	6110-01-425-7230
HPSM #2	7-511B11088-1 (IP 387SUE1)	6110-01-425-7231

7. Parts to be Inspected.N/A.

8. Inspection Procedures.

a. Determine if the inspection required IAW AH-64-02-05 has been completed. If the inspection has been completed, inspect for additional HPSM's listed below prior to next flight. If the inspection required IAW AH-64-02-05 has not been completed, conduct the inspection concurrently with this message prior to the next flight. Read the HPSM #1 and #2 data plates located behind the pilots seat to determine if one of the suspect serial numbers listed below is installed. If one is installed, prior to removal contact the LOG POC in paragraph 16b for replacement instructions.

(1) suspect HPSM #1 serial numbers-

HPSM #1 S/N 0069	HPSM #1 S/N 0071	HPSM #1 S/N 0106
HPSM #1 S/N 0115	HPSM #1 S/N 0123	HPSM #1 S/N 0151
HPSM #1 S/N 0162	HPSM #1 S/N 0167	HPSM #1 S/N 0178
HPSM #1 S/N 0188	HPSM #1 S/N 0190	HPSM #1 S/N 0199
HPSM #1 S/N 0209	HPSM #1 S/N 0239	

Original HPSM #1 S/N's from AH-64-02-05-

NOTE

The following HPSM #1 serial numbers originally Identified as being suspect IAW AH-64-02-05 have been removed from this list- 0118, 0163, 0172, 0316 and 0346.

HPSM #1 S/N 0074	HPSM #1 S/N 0085	HPSM #1 S/N 0086
HPSM #1 S/N 0089	HPSM #1 S/N 0090	HPSM #1 S/N 0091
HPSM #1 S/N 0094	HPSM #1 S/N 0098	HPSM #1 S/N 0100
HPSM #1 S/N 0104	HPSM #1 S/N 0107	HPSM #1 S/N 0111
HPSM #1 S/N 0149	HPSM #1 S/N 0180	HPSM #1 S/N 0189
HPSM #1 S/N 0206	HPSM #1 S/N 0214	HPSM #1 S/N 0218
HPSM #1 S/N 0219	HPSM #1 S/N 0241	HPSM #1 S/N 0242
HPSM #1 S/N 0249	HPSM #1 S/N 0257	HPSM #1 S/N 0292
HPSM #1 S/N 0312	HPSM #1 S/N 0325	HPSM #1 S/N 0335

(2) Suspect HPSM #2 Serial Numbers added by this TB-

HPSM #2 S/N 0063	HPSM #2 S/N 0102	HPSM #2 S/N 0113
HPSM #2 S/N 0124	HPSM #2 S/N 0156	HPSM #2 S/N 0171
HPSM #2 S/N 0176	HPSM #2 S/N 0179	HPSM #2 S/N 0180
HPSM #2 S/N 0204	HPSM #2 S/N 0216	HPSM #2 S/N 0232

Original HPSM #2 S/N's from AH-64-02-05-

NOTE

The following HPSM #2 serial numbers originally Identified as being suspect IAW AH-64-02-05 have been removed from this list- 0119.

HPSM #2 S/N 018A	HPSM #2 S/N 0090	HPSM #2 S/N 0092
HPSM #2 S/N 0105	HPSM #2 S/N 0112	HPSM #2 S/N 0138
HPSM #2 S/N 0139	HPSM #2 S/N 0141	HPSM #2 S/N 0177
HPSM #2 S/N 0178	HPSM #2 S/N 0183	HPSM #2 S/N 0241
HPSM #2 S/N 0253		

b. If suspect HPSM's have been replaced, and the inspection IAW AH-64-02-05 indicated MWO 1-1520-251-55-07 has been completed, correct IAW paragraph 9a.

NOTE

The application of MWO 1-1520-251-55-06, software changes for the generator control unit, does not have to be completed prior to removing the flight restrictions imposed by this TB. However, the unit commander is still required to track and report final installation of MWO 1-1520-251-55-06 and MWO 1-1520-251-55-07.

- c. If MWO 1-1520-251-55-07 has not been applied, and/or a replacement HPSM is not available correct IAW paragraph 9b.

9. Correction Procedures.

NOTE

Critical data for analysis will be lost if the following procedures are not met. In the event of any multiple MPD blanking, shutdown the aircraft and do not attempt to trouble shoot and/or energize the aircraft electrical system until after contacting the Tech POC in paragraph 16a.

NOTE

Prior to conducting terrain flight operations, unit commanders will ensure that all personnel complete the training required IAW paragraph 9c.

- a. If MWO 1-1520-251-55-07 has been applied, and suspect HPSM's have been replaced, perform the following:

- (1) Clear the red horizontal dash entry required IAW paragraph 1a of this TB.
- (2) The inspection and correction for this aircraft is complete.

- b. If MWO 1-1520-251-55-07 has not been applied, and/or a suspect HPSM has not been replaced, perform the following:

- (1) Clear the red horizontal dash entry required IAW paragraph 1a of this TB.
- (2) Clear the circle red "x" entry required IAW paragraph 1a and 9b of TB 1-1520-251-20-01 and enter a new circle red "x" status symbol. The circle red "x" entry shall state: "Aircraft restricted IAW TB 1-1520-251-20-07". While the aircraft is on circle red "x" it may be reported fully mission capable (FMC). The following restrictions will continue to apply until the required MWO and replacement HPSM's have been completed.
- (3) When MWO 1-1520-251-55-07 required IAW paragraph 8b has been completed, and suspect HPSM's replaced, the circle red "x" status required IAW paragraph 9b(2) will be cleared.

- c. Risk management procedures and training plans required IAW TB 1-1520-251-20-07 remain in effect.

10. Supply/Parts and Disposition.

- a. Parts Required. Items cited in paragraph 12c may be required to replace defective items.
- b. Requisitioning Instructions. Contact the Log POC paragraph 16b for requisitioning instructions.

NOTE

The HPSM will be issued by direct exchange at the contractor logistics support (CLS) window at no cost to the unit.

- c. Bulk and Consumable Materials. N/A.
- d. Disposition. Contact the Log POC paragraph 16b for requisitioning instructions for disposition instructions
- e. Disposition of Hazardous Material. IAW EPA directives as implemented by your servicing environmental coordinator (AR 200-1).

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

12. Application.

- a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM.
- b. Time Required.
 - (1) Time to complete inspection:
 - (a) Total of 1 man-hours using 2 persons.
 - (b) Total of 1 hour using downtime for one end item.
 - (2) Time for repair/replacement of HPSM:
 - (a) Total of 2 man-hours using 2 persons.
 - (b) Total of 4 hours using downtime for one end item.
- c. Estimated Cost Impact of Stock Fund Items to the Field.N/A
- d. TB/MWOs to be Applied Prior to or Concurrently with this Inspection. MWO 1-1520-251-55-07.
- e. Publications Which Require Change as a Result of This Inspection. N/A.

13. References.

- a. DA PAM 738-751, 15 Mar 99, Functional Users Manual for the Army Maintenance Management System- Aviations (TAMMS-A).
- b. Interactive Electronic Technical Manual (IETM): TM 1-1520-Longbow/Apache IETM, CD No. 1, Version 3.1.2, Data 19 Nov. 98, CD Date 1 Dec 98 or subsequent.
- c. TM 1-1520-251-10, Apache Longbow Operators Manual. 29 Mar 2002
- d. TM 1-1520-251-MTF. 15 Mar 1998
- e. TM 1-1520-251-CL. 15 Mar 1998
- f. TB 1-1520-251-20-01. 26 Apr 2000
- g. MWO 1-1520-251-55-07. 9 Oct 2001

14. Recording and Reporting Requirements.

- a. Aircraft-
 - (1) TAMMS reporting compliance suspense- 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), Redstone Arsenal, AI 35898-5000 IAW AR 95-1. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-Mail address is "SAFEADMS@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.
 - (2) Task/Inspection reporting suspense date (aircraft)- Upon completion of inspection, commanders will forward a priority message to the Log POC listed in paragraph 16b. The report will cite this message and TB number, date of inspection, aircraft serial number, aircraft hours, HPSM serial numbers, 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. Materiel in Retail Storage- N/A.
- d. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 Mar 99:

NOTE

ULLS-A users will use applicable "E" forms

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

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- (2) DA Form 2408-5-1, Equipment Modification Record (AC Generator).
- (3) DA Form 2408-13, Aircraft Status Information Record.
- (4) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (5) DA Form 2408-15, Historical Record for Aircraft.
- (6) DA Form 2408-16, Aircraft Component Historical Record(Only if generator is removed/replaced).
- (7) DA Form 2410, Component Removal and Repair Overhaul Record (Only if generator is removed/replaced).

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is:

(1) Primary – Mr. Matthew Benzek, AMSAM-RD-AE-I-P-A, DSN 897-2350 ext. 9817 or commercial (256) 705-9918. E-mail is Matthew.Benzek@rdec.redstone.army.mil.

(2) Alternate– Dave Hazen, AMSAM-RD-AE-I-P-A, DSN 897-2350 ext. 9834 or commercial (256) 705-9834. E-mail is Dave.hazen@rdec.redstone.army.mil.

b. Logistical point of contact for this TB is:

(1) Primary – Mr. Steve Hayes, SFAE-AV-AAH-LF, DSN 897-4245 or commercial (256) 313-4245. Datafax is DSN 897-4343 or (256) 313-4343. E-mail is Steve.Hayes@peoavn.redstone.army.mil.

(2) Alternate – Mr. Mike Sharp, SFAE-AV-AAH-LF, DSN 897-4236 or commercial (256) 313-4236. Datafax is DSN 897-4343 or (256) 313-4343. E-mail is Mike.Sharp@peoavn.redstone.army.mil.

c. 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, Datafax is DSN 746-4904 or commercial (256) 876-4904, E-mail is Ann.Waldeck@redstone.army.mil.

d. Safety point of contact for this TB is:

(1) Primary – Mr. Harry Trumball, AMSAM-SF-A, DSN 897-2068 or commercial (256) 313-2068. Datafax is DSN 897-2111 or commercial (256) 313-2111. E-mail is Harry.Trumball@redstone.army.mil.

(2) Alternate – Mr. Joseph Creekmore AMSAM-SF-A, DSN 897-2090 or commercial (256) 313-2090. Datafax is DSN 897-2111 or commercial (256) 313-2111. E-mail is Joseph.Creekmore@redstone.army.mil.

e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact – (Huntsville, AL is GMT minus 6 hours.)

(1) Primary– Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6856 or commercial (256) 313-6856, Datafax is DSN 897-6630 or commercial (256) 313-6630, E-mail is Ronnie.Sammons@redstone.army.mil.

(2) Alternate– Mr. Paul Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or commercial (256) 313-6861, Datafax is DSN 897-6630 or commercial (256) 313-6630, E-mail is Paul.Tarr@redstone.army.mil.

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

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, AL 35898-5230. You may also

submit your recommended changes by E-mail directly to 2028@Redstone.Army.Mil. Instructions for sending an electronic 2028 may be found at the back of this manual. A reply will be furnished directly to you.

By Order of the Secretary of the Army:

Official: _____



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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.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.