

URGENT

TB 1-2835-205-20-2

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

SANDY ENVIRONMENT AND/OR COMBAT OPERATIONS FOR GAS TURBINE ENGINE (AUXILIARY POWER UNIT-APU) MODEL T-62T-2B

Headquarters, Department of the Army, Washington, D. C.
15 April 2003

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

NOTE

This publication is effective until rescinded or superseded.

1. **Purpose.** This technical bulletin is to be used as guidance while operating Army Auxiliary Power Units (APUs) in a sandy environment and/or during combat operations.

2. **Priority Classification.** This technical bulletin is classified as URGENT.

Equipment in Use (Including Equipment in Supply or Maintenance Activities Below Depot Level and Equipment in Administrative Storage). Equipment in use will be inspected as soon as practicable.

3. **End Items to be Inspected.**

Nomenclature	Part Number	NSN
T-62T-2B Engine	160150-100	2835-01-092-2037

4. **Modules (Components, Assemblies, and Subassemblies) to be Inspected.** Not applicable.

5. **Parts to be Inspected.** Refer to paragraph 9.

6. **Application.**

a. Level of Maintenance. AVUM/AVIM.

b. Applied by. AVUM/AVIM.

c. Tune Required. Not applicable.

d. Additional Information. These instructions are for use only in a sandy environment and/or during combat operations.

7. Supply Kits, Parts, and Disposition.

- a. Parts Required to Accomplished Technical Bulletin.

Nomenclature	Part Number	NSN
Barrier Filter	PSF31 BH6X28	2945-01-328-9679
Hook	MIL-F-21840	8315-01-066-5854
Pile	MIL-F-21840/ V1000-20	8315-00-960-2504 8315-00-935-0505

- b. Parts Disposition. Not applicable.
 c. Expendable Supplies. Not applicable.

8. Special Tools, Jigs and Fixtures Required. Not applicable.

9. Inspection Procedures.

NOTE

The T-62T-2B APU may be operated with the emergency barrier filter P/N PSF31BH6X28. The barrier wrap filter shall be used to minimize engine sand ingestion in a sandy environment and/or during combat operations.

WARNING

Operating the APU with a clogged inlet filter can result in insufficient pressure across the APU labyrinth seal. This will cause the seal to leak resulting in oil starvation of the APU bearings and subsequent catastrophic failure of the unit.

- a. Inspect the APU inlet screen for serviceability in accordance with TM 55-2835-205-23, Task 2-2.

NOTE

Pressure gradient across the barrier filter will cause an improperly installed (loose) screen to collapse into the air inlet housing.

NOTE

Housing supports should be located at the 4, 8, and 12 o'clock positions.

- b. Wrap the barrier filter (white side out) around the inlet screen. The barrier filter is longer than the T-62T-2B inlet screen because it was designed for the Black Hawk APU Model T-62T-40- 1. Overlap the ends (approximately 1 to 2 inches). Attach the velcro directly to the material. DO NOT PULL TIGHT. Stretching the filter will reduce its effectiveness. Place the overlap section of the filter directly over one of the housing supports. This shall give additional support to the screen because of the lack of air flow where the velcro connects. Work filter under the fuel lines.

CAUTION

Extreme care must be taken during removal of the barrier wrap filter to prevent trapped particles from falling into the APU inlet.

c. The barrier wrap filter shall be removed and replaced not to exceed 5 aircraft hours.

d. A daily visual inspection of the APU barrier filter installation is required to ensure that clogging does not occur. Clogging shall be corrected by filter removal and replacement prior to further flight operations.

10. Special Tools, Jigs, Test Measurement and Diagnostic Equipment (TMDE). Not applicable.

11. Quality Assurance Requirements. As applicable.

12. Recording and Reporting of Work Accomplished.

a. Record and Reports Forms. The following forms are applicable and are to be completed in accordance with DA Pamphlet 738-751, 15 March 1999.

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

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

(3) DA Form 2480-13-1, Aircraft Inspection and Maintenance Record.

(4) DA Form 2408-13-2, Related Maintenance Actions Record.

(5) DA Form 2408-18, Equipment Inspection List.

b. Marking Equipment. Not applicable.

c. Identification. Not applicable.

13. Points of Contact.

For immediate engineering assistance in complying with this Technical Bulletin, contact Joseph A Gibson, AMCOM T-62T APU Project Engineer, AMSAM-RD-AE-P, DSN 897-2350 - 5303 or Commercial (256) 319-5303. For immediate assistance for recording and reporting information with this Technical Bulletin, contact AMSAM-RD-AE-I-P-C, DSN 693-1955 or Commercial (256) 705-9866.

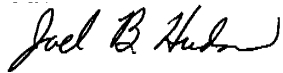
14. Reporting of Errors and Recommending Improvements.

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or 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 35898-5000. 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 TB immediately preceding the hard copy 2028. For the World Wide Web use: <https://amcom2028.redstone.army.mil>.

15. Engineering Change Proposal (ECP) Number. Not Applicable

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army

0309304

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

These are the instructions for sending an electronic 2028

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@wherever.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:** TB
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 PUBLICATIONS AND BLANK FORMS <small>For use of this form, see AR 25-30; the proponent agency is ODISC4.</small>						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM)	DATE 8/30/02
TO: (Forward to proponent of publication or form)(Include ZIP Code) Commander, U.S. Army Aviation and Missile Command ATTN: AMSAM-MMC-MA-NP Redstone Arsenal, AL 35898						FROM: (Activity and location)(Include ZIP Code) MSG, Jane Q. Doe 1234 Any Street Nowhere Town, AL 34565	
PART 1 – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 9-1005-433-24						DATE 16 Sep 2002	TITLE Organizational, Direct Support, And General Support Maintenance Manual for Machine Gun, .50 Caliber M3P and M3P Machine Gun Electrical Test Set Used On Avenger Air Defense Weapon System
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON	
1	WP0005 PG 3		2			Test or Corrective Action column should identify a different WP number.	
EXAMPLE							
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE MSG, Jane Q. Doe, SFC						TELEPHONE EXCHANGE/ AUTOVON, PLUS EXTENSION 788-1234	SIGNATURE

TO: (Forward direct to addressee listed in publication) Commander, U.S. Army Aviation and Missile Command ATTN: AMSAM-MMC-MA-NP Redstone Arsenal, AL 35898	FROM: (Activity and location) (Include ZIP Code) MSG, Jane Q. Doe 1234 Any Street Nowhere Town, AL 34565	DATE 8/30/02
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER			DATE	TITLE				
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks, corrections, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

EXAMPLE

TYPED NAME, GRADE OR TITLE MSG, Jane Q. Doe, SFC	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 788-1234	SIGNATURE
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS <small>For use of this form, see AR 25-30; the proponent agency is ODISC4.</small>						Use Part II (<i>reverse</i>) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM)	DATE
TO: (<i>Forward to proponent of publication or form</i>)(<i>Include ZIP Code</i>) Commander, U.S. Army Aviation and Missile Command ATTN: AMSAM-MMC-MA-NP Redstone Arsenal, AL 35898						FROM: (<i>Activity and location</i>)(<i>Include ZIP Code</i>)	
PART 1 – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TB 1-2835-205-20-2						DATE 15 April 2003	TITLE Gas Turbine Engine Model T-62T-2B
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON	
<i>* Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE						TELEPHONE EXCHANGE/ AUTOVON, PLUS EXTENSION	SIGNATURE

TO: (Forward direct to addressee listed in publication) Commander, U.S. Army Aviation and Missile Command ATTN: AMSAM-MMC-MA-NP Redstone Arsenal, AL 35898	FROM: (Activity and location) (Include ZIP Code)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

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