

ROUTINE

*TB 1-2840-231-20-3

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

ONE TIME INSPECTION OF T63-A-700 ENGINE FOR
INSTALLATION OF TWO ACCUMULATORS
AND ONE DOUBLECHECK VALVE ON ALL
OH-58A/C SERIES AIRCRAFT

Headquarters, Department of the Army, Washington, D.C.
1 October 1995

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NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL SOONER RESCINDED OR SUPERSEDED.

1. **Priority Classification. ROUTINE**

- 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 dash**. The **red 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 requirements of this TB within the time frame 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 the TB has been completed.
- c. Aircraft Undergoing Maintenance. Aircraft will not be released until compliance with this TB has been completed.
- d. Aircraft in Transit.
 - (1) Surface/Air Shipment. Prior to first flight.
 - (2) Ferry Status. Inspect at final destination.
- e. Maintenance Trainers (Category A, B, and Others). Same as paragraph 1.a.
- f. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others). Upon installation of engine, ensure two accumulators and one double check valve are installed to prevent damage to mast and transmission.

*This TB supersedes TB 1-2840-231-20-3, dated 20 October 1994.

NOTE

Technical Manuals will be changed to add a "Caution" to ensure that two accumulators and one double check valve are installed on all OH-58A/C engines. A copy of this TB shall be inserted in the appropriate TM as authority to implement the change until the printed change is received.

2. **Task/Inspection Suspense Date.** Inspect and repair within 10 hours/14 days.
3. **Reporting Compliance Suspense Date.** N/A.
4. **Summary of the Problem.**
 - a. A "TWO PER REV" was detected on several OH-58 aircraft that had engine changes. It was discovered that the double check valve and second accumulator were not installed. Operation in this configuration could damage the mast and transmission. The proper configuration has two accumulators and one double check valve installed on OH-58A/C engines.
 - b. For manpower/downtime and funding impacts, see paragraph 12.
 - c. The purpose of this TB is to require a one time inspection to ensure that two accumulators and one double check valve are installed on all OH-58A/C engines.
5. **End Items to be Inspected.** All OH-58A/C aircraft.
6. **Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Engine, Gas Turbine	6874201	2840-00-179-5536

7. **Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Accumulator	6875224	2995-00-349-9255
Check Valve	6876557	4820-01-047-2796

8. **Inspection Procedures.**
 - a. Gain access to the engine compartment.
 - b. Refer to TM 55-2840-231-23P, figure 8. Inspect the rear, lower, left side of the engine for installation of two accumulators and one double check valve.
 - c. If all parts are installed, the inspection is complete.
 - d. If any parts are not installed, perform correction procedures in paragraph 9.

NOTE

PY accumulator may or may not be installed. No action is required on the PY accumulator.

9. **Correction Procedures.**

- a. If any of the two accumulators and one double check valve are not installed, install missing parts in accordance with TM 55-2840-231-23, paragraph 6-26 for the T63-A-700 engine.

NOTE

New engines are shipped with only one accumulator.

- b. If the aircraft has been operating with missing parts, an inspection of the mast and transmission is required in accordance with TM 55-1520-228-23, page 1-40, paragraph L,(1), (2)(a)(b), (3), (4) and (5) prior to further operation.

10. Supply/Parts and Disposition.

- a. Parts Required. Items cited in paragraph 7 may be required to replace missing items.
- b. Requisitioning Instructions. Requisition replacement parts through normal supply channels using normal supply procedures. All requisitions shall use project code "XAN" per this TB.

NOTE

Project code 'XAN' is required to track and establish a data base of stock fund expenditures incurred by the field as a result of AMSAM/SOF actions.

- 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. Time Required.
 - (1) Total of .25 man-hours using 1 person.
 - (2) Total of .25 hours downtime for one end item.
- c. Estimated Cost Impact of Stock Fund Items to the Field.

NOMENCLATURE	PART NO.	QUANTITY	COST EACH
Accumulator	6875224	1	\$38.39
Check Valve	6876557	1	\$175.00

- 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. TM 55-2840-231-23 and TM 55-1520-228-PM shall be changed to reflect this TB. A copy of this TB shall be inserted in the appropriate TM as authority to implement the change until the printed change is received.

13. References.

- a. TM 55-2840-231-23, Aviation Unit and Intermediate Maintenance Instructions, Engine Aircraft, Gas Turbine, Model T63-A-700, dated 27 February 1981, Change 11, dated 12 June 1989.
- b. TM 55-1520-228-23, Aviation Unit and Intermediate Maintenance Manual, Army Model OH-58A and OH-58C Helicopter, dated 22 February 1989, Change 5, dated 20 July 1992.

14. Recording and Reporting Requirements.

- a. 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, ATCOM, ATTN: AMSAT-C-XS (SOF Compliance Officer), per AR 95-3. Datafax number is DSN 693-2064 or commercial (314) 263-2064. E-Mail address is "AM-SATCXS@ST-LOUIS-EMH4.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). N/A.
- c. Reporting Compliance Suspense Date (Spares). N/A.
- d. Task/inspection Reporting Suspense Date (Spares). N/A.
- e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751,15 June 1992:

- (1) DA Form 2408-5-1, Equipment Modification Record (Engine).
- (2) DA Form 2408-13, Aircraft Status Information Record.
- (3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (4) DA Form 2408-15, Historical Record for Aircraft.

15. Weight and Balance. N/A.

16. Points of Contact.

- a. Technical point of contact for this TB is Mr. George Cioffi, AMSAT-R-EIO, DSN 693-1672 or commercial (314)263-1672.
- b. Logistical point of contact for this TB is Mr. Eric Molton, AMSAT-I-SADE, DSN 693-5954 or commercial (314)263-5954.
- c. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAT-I-MDM, DSN 693-1758 or commercial (314)263-1758.
- d. Safety Point of contact for this TB is Mr. Brad Meyer. AMSAT-C-XS, DSN 693-2258 or commercial (314)263-2258.
- e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact Mr. Ron Van Rees or MW4 Jay Nance, AMSAT-I-IOA, DSN 693-3659 or commercial (314)263-3659.
- f. After hours contact ATCOM Command Operations Center (COC) DSN 693-2066/7 or commercial (314)263-2066/7.

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. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you. You may also submit your recommended changes by E-mail directly to <daf2028@st-louis-emh7.army.mil>. A reply will be furnished directly to you.

The following format shall be used for electronic 2028s. 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.

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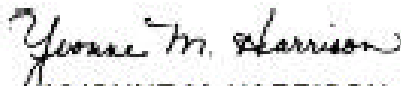
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- 17. **Problem:** 1
- 18. **Page:** 2
- 19. **Paragraph:** 3
- 20. **Line:** 4
- 21. **NSN:** 5
- 22. **Reference:** 6
- 23. **Figure:** 7
- 24. **Table:** 8
- 25. **Item:** 9
- 26. **Total:** 123
- 27. **Text:**

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01181

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