

URGENT

TB 1-1520-238-20-138

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

TAIL ROTOR BLADE ABRASION STRIP INSPECTION CRITERIA FOR ALL AH-64 SERIES HELICOPTERS

Headquarters, Department of the Army, Washington, D. C.
7 April 2004

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

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. **Priority Classification.** Urgent
2. **Task/Inspection Suspense Date.** IAW PMS
3. **TAMMS Reporting Compliance Suspense Date.** N/A
4. **Summary of the Problem.**
 - a. This change incorporates installation, removal and abrasion strip inspection criteria for Tail Rotor Blades that have the installed on the leading edge of the blade.
 - b. The purpose of this TB is to:
 - (1) Provide visual inspection procedures for all AH-64 aircraft Tail Rotor Blades with CTI abrasion strips.
5. **End Items to be inspected.** All AH-64 Series aircraft.
6. **Assembly Components to be Inspected.** N/A.
7. **Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Blade, Rotary Rudder	7-311422050-7AS	1615-01-469-7145
Blade, Rotary Rudder	7-311422050-7S	1615-01-469-7143

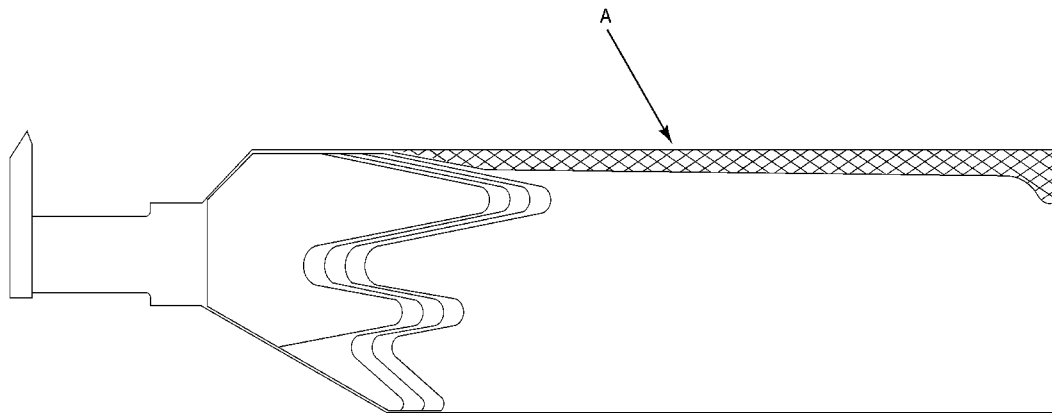
8. Inspection Procedures.

- a. Safe helicopter IAW TM 1-1520-238-23 and 1-1520 Longbow/Apache IETM.

NOTE

*Inspect nickel supplemental abrasion strip using tapping hammer or equivalent. Satisfactory bonding sounds high and hard, voids/debonds sound heavy without resonance.

- b. TAIL ROTOR – SUPPLEMENTAL ABRASION STRIP INSPECTION CRITERIA.



MS023162

NO	REF LET	CHARACTERISTIC	INSP METHOD	REQUISITE
1	A	Scratches, nicks, and gouges	Visual	Acceptable without perforation of Nickel. Refer to baseline blade inspection criteria in unshielded areas.
2	A	Erosion damage	Visual	Acceptable without perforation of Nickel. Refer to baseline blade inspection criteria in unshielded areas.
3	A	Dents	Visual	Smooth rounded dents are acceptable to maximum dimension shown in TM 1-1520-238-23 and TM 1-1520 Longbow/Apache. Refer to baseline blade inspection criteria in unshielded areas.
4	A	Voids/Debonds	Coin Tap Test*	Small voids/debonds (one inch square maximum) that do not extend to the trailing edge of the strip are acceptable.
5	A	Edge Voids/Debonds	Coin Tap Test* and Visual	No defects allowed.

9. Correction Procedures.

- a. Replace blade if Tail Rotor Blade does not meet the inspection limits within this TB and IAW baseline blade inspection criteria in unshielded areas.
- b. Removal and installation of Tail Rotor Blades with CTI abrasion strips procedures are the same as TM 1-1520-238-23 series manuals and TM 1-1520-Longbow/Apache.

10. Supply/Parts and Disposition.

- a. Disposition. Submit a CAT I QDR for blades failing the inspection per this TB. Hold any discrepant part/component pending disposition instructions from technical POC in paragraph 16a.
- b. Disposition of Hazardous Material. IAW Environmental Protection Agency 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.
- b. Publications which require change as a result of this inspection. TM 1-1520-238-23, and TM 1-1520-Longbow/Apache IETM 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. DA PAM 738-751, 15 Mar 99.
- 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 Jan 2004 or subsequent.
- c. TM 1-1520-238-23, Aviation Unit and Intermediate Maintenance Manual for AH-64A Apache Attack Helicopter, 16 May 94.

14. Recording and Reporting Requirements.

- a. Aircraft-N/A.
- 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

Use an "800" inspection number for this inspection until it is incorporated into the technical manuals.

- (1) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (2) DA Form 2408-16 Aircraft Component Historical Record (If blade is removed/ replaced)
- (3) DA Form 2408-18, Equipment Inspection List.
- (4) DA Form 2410, Component Removal and Repair/ overhaul record (If blade is removed or replaced).

15. Weight and Balance. Tail Rotor Blades with CTI abrasion strips installed are a one-for-one replacement with non-strip blades and are balanced the same as non-strip blades.

16. Points of Contact.

a. Technical points of contact for this TB is:

(1) Primary – Mr. Tim Powell, AMSRD-AMR-AE-D, (256) 705-9849 or DSN 897-2350 ext. 9849, fax (256) 705-9918, E-mail is Timothy.Powell@redstone.army.mil.

(2) Alternate– Greg Jinks

b. Logistical point of contact for this TB is:

(1) Primary– Mr. Wayne Fusselman, SFAE-AV-AAH-LF, DSN 897-4043 or commercial (256) 313-4043. Wayne.Fusselman@Redstone.Army.Mil.

(2) Alternate– Mr. Robert O’Neil, SFAE-AV-AAH-LI, DSN 897-4041 or commercial (256) 313-4041. Robert.Oneil@Redstone.Army.Mil.

c. Wholesale material point of contact (spares) is Kathy Elfrink, AMSAM-MMC-AV-AA, DSN 897-1350 or commercial (256) 313-1350, datafax is DSN 897-1556 or commercial (256) 313-1556, E-Mail is Kathy.Elfrink@redstone.army.mil.

d. 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.

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

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:



Handwritten signature of Joel B. Hudson in black ink.

JOEL B. HUDSON

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Secretary of the Army*

0409801

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Chief of Staff*

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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.