

**URGENT**

**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

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**ONE TIME INSPECTION OF AH-1 SERIES AIRCRAFT  
WITH SCISSORS LEVER ASSEMBLY, P/N  
209-010-405-7 MANUFACTURED BY IMPERIAL  
TOOLING AND MACHINE COMPANY INSTALLED**

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**Headquarters, Department of the Army, Washington, D. C.  
21 January 1999**

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

**NOTE**

**THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.**

**1. Priority Classification.** Urgent.

**NOTE**

**See AR 95-1, paragraph 6-6.a., for noncompliance authority of major commanders.**

**a. Aircraft in Use.** Upon receipt of this TB/message, the condition status symbol of the cited aircraft will be changed to a **circled red //X//**. The **circled red //X//** entry shall state "Aircraft restricted to flight operations and inspection procedures IAW Safety of Flight message AH-1-99-03." The **circled red //X//** may be cleared when the inspection specified in paragraph 8 and the corrective action, if required, specified in paragraph 9 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/message within the time frame will cause the status symbol to be upgraded to a **red //X//**. While the aircraft is on a **circled red //X//** it may be reported as fully mission capable (FMC).

**b. Aircraft in Depot Maintenance.** Same as para 1.a. Aircraft will not be issued until compliance with this TB/message has been completed.

**c. Aircraft Undergoing Maintenance.** Same as para 1.a. Aircraft will not be issued until compliance with this TB/message has been completed.

**d. Aircraft in Transit.**

(1) **Surface/Air Shipment.** Same as para 1.a.

(2) **Ferry Status.** Same as para 1.a.

**\*This TB supersedes USAAMCOM Safety of Flight Message 141510Z December 1998, AH-1-99-03.**

e. **Maintenance Trainers:** N/A.

f. Report receipt of this TB/message IAW para 14.c.(1). Upon receipt of this TB/message all serviceable items (condition codes //A//, //B//, //C//, //D//, and //E//) listed in paras 6 and 7 located in wholesale depot storage shall be placed in condition code //J// and tagged with a suspended tag/label - materiel, DD Form 1575/DD Form 1575-1 annotated to read "SOF AH-1-99-03, TB 1-1520-236-20-15 Imperial Tooling Scissors Assemblies, not complied with." Do not remove original condition tags. Report compliance with this TB/message IAW para 14.d.(1).

g. **Component/Parts in Work (Depot Level and Other).** Items listed in paras 6 and 7 in work will not be issued until compliance with this TB/message is completed.

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

3. **Reporting Compliance Suspense Date.** No later than 8 January 1999, IAW para 14.a. of this TB/message.

4. **Summary of the Problem.**

a. **Background.** During testing of parts in stock, two scissors lever assemblies were found to contain cracks that were determined to have developed during manufacturing. The nature of the cracks and the environment that the part operates in could lead to a catastrophic failure. The suspect parts were manufactured by Imperial Tooling and Machine Co. (CAGE Code 30333).

b. **For Manpower/Downtime and Funding Impacts, See Paragraph 12.**

c. **The Purpose of this TB/message** is to require a one-time inspection and removal of suspect scissors lever assemblies manufactured by Imperial Tooling and Machine Co., CAGE Code 30333, installed on aircraft and from all stock.

5. **End Items to be Inspected.** All AH-1 series aircraft.

6. **Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Scissors and Sleeve Assembly	209-010-401-11	1615-00-168-5863

7. **Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Scissors Lever Assembly	209-010-405-7	1615-00-442-2513

8. **Inspection Procedures.**

**NOTE**

**The seal number is on a data plate affixed to the scissors lever assembly. Imperial Tooling (CAGE Code 30333) serial numbers involved range from IT0001 to IT0750.**

a. **Parts Installed on Aircraft.**

(1) Visually inspect all scissors lever assemblies P/N 209-010-405-7, NSN 1615-00-442-2513 for serial numbers beginning with "IT". Both scissors lever assemblies in each scissors and sleeve assembly must be inspected.

(2) Verify aircraft records reflect the serial number found on the scissors lever assembly.

(3) If the serial number begins with "IT", verify that the manufacturer is Imperial Tooling, CAGE Code 30333. If the scissors lever assembly is verified as being from Imperial Tooling, proceed to paragraph 9.

(4) If the scissors lever assembly is not an Imperial Tooling part with a serial number beginning with "IT", the inspection is complete and the **circled red //X//** is to be cleared. Compliance with this message AH-1-99-03, TB 1-1520-236-20-15 will be noted on the DA Form 2408-5-1 for the scissors lever assembly.

(5) If the scissors lever assembly manufacturer cannot be determined, contact the technical POC listed at para 16.a. for additional markings and identification information.

#### **b. Parts in Stock.**

(1) Scissors lever assemblies P/N 209-010-405-7, NSN 1615-00-442-2513.

(a) Visually inspect all scissors lever assemblies, P/N 209-010-405-7, NSN 1615-00-442-2513 for serial numbers beginning with "IT".

(b) Verify the tag or label reflects the serial number found on the scissors lever assembly.

(c) If the serial number begins with "IT", verify that the manufacturer is Imperial Tooling, CAGE Code 30333. If the scissors lever assembly is verified as being from Imperial Tooling, proceed to para 9.

(d) If the scissors lever assembly does not have a serial number beginning with "IT", the inspection is complete. Parts will be retagged serviceable (yellow tag) DD Form 1574. Compliance with this SOF AH-1-99-03 and TB 1-1520-236-20-15 will be noted.

(2) Scissors and sleeve assemblies P/N 209-010-401-11, NSN 1615-00-168-5863.

(a) Visually inspect all serviceable or unserviceable scissors and sleeve assemblies. Inspect both installed scissors lever assemblies, P/N 209-010-405-7, NSN 1615-00-442-2513 for serial numbers beginning with "IT".

(b) If the serial number begins with "IT", verify that the manufacture is Imperial Tooling (CAGE Code 30333). If either scissors lever assembly is verified as being from Imperial Tooling, proceed to para 9.

(c) If neither scissors lever assembly has a serial number beginning with "IT", the inspection is complete. Scissors and sleeve assemblies will be retagged serviceable (yellow tag) DD Form 1574, or unserviceable, repairable (green tag) DD Form 1577-2, depending on the condition of the scissors and sleeve assembly prior to inspection. Compliance with SOF AH-1-99-03, TB 1-1520-236-20-15 will be noted on a DA Form 2408-5-1 for each scissors lever assembly.

#### **9. Correction Procedures.**

**a.** For suspect scissors lever assemblies installed on aircraft, change the condition of the affected aircraft to **red //X//** until suspect scissors lever assemblies are replaced by serviceable scissors lever assemblies from supply or until the suspect scissors lever assembly has been inspected and passed requirements stated in para 9.c. below. The scissors lever assembly must be removed by an AVIM or Depot level maintainer. Prepare a DA Form 2410, copy 1 to show the removal, and retain copy 2 and 3 with the scissors lever assembly for further use.

#### **b. Parts in Stock at all Levels:**

(1) Suspect scissors lever assemblies in stock will be subjected to the inspection specified in para 9.c. below and disposed of in accordance with (IAW) para 9.d. below.

(2) Suspect scissors lever assemblies installed in serviceable or unserviceable scissors and sleeve assemblies in stock will be removed by an AVIM level maintainer and subjected to the inspection specified in para 9.c. below and disposed of IAW par 9.d. below. Prepare a DA Form 2410, copy 1 to show the removal and retain copy 2 and 3 with the part for further use.

**c. Nondestructive inspection (NDI) procedure:**

**NOTE**

**This procedure must be performed by an AVIM level maintainer certified for NDI to MIL-STD-410E OR NAS410, or MOS qualified 68DN2.**

(1) Prepare the scissors lever assembly for inspection by cleaning with a non-aqueous cleaning solution. It is not necessary to remove the bushings or the bearing, however, the bearing must be protected from cleaning solvents. If the part has been painted, all paint must be removed prior to inspection per TM 55-1500-345-23, Painting and Marking of Army Aircraft, Chapter 2. The anodized coating should not be removed.

(2) Conduct a fluorescent penetrant inspection (FPI) using Type 1, Method C (fluorescent, solvent removable) of the entire part with a level 3 sensitivity per Chapter 6 of TM 55-1500-335-23, Nondestructive Inspection Methods. Use of either 10X magnification or Eddy Current Inspection is authorized for evaluation of FPI indications. If the part is determined to have passed FPI, proceed to para 9.c.(3). If the part is determined to have failed FPI, the part has failed the inspection and will be disposed of as specified in para 9.d.

(3) Conduct an Eddy Current Inspection (ECI) on all parts passing FPI. Eddy Current Inspection will be per TM 1-1520-255-23, Nondestructive Inspection Procedures for AH-1 Helicopter Series, para 2.27. If the part is determined to have passed ECI, it has passed inspection and is considered good. If the part is determined to have failed ECI, the part has failed the inspection and will be disposed of IAW para 9.d.

**d. Disposition of parts after NDI:**

(1) Scissors lever assemblies that have failed either FPI or ECI - see para 10.d.

(2) Scissors lever assemblies that have passed both FPI and ECI will have their serial numbers modified by adding an "A" to the serial number (Example: "ITXXXXA"). This must be accomplished by metal stamp or vibroetch on the data plate. Destroy the DA Form 2410, copy 2. Prepare the DA Form 2410, copy 3 to show an "M" loss of the old serial number IAW DA Pam 738-751, page 162. Get a new set DA Form 2410, destroy copy 1 and prepare copy 2 to show an "S" gain of the new serial number IAW DA Pam 738-751, page 164.

(a) Scissors lever assemblies removed from aircraft may be reinstalled. Prepare the DA Form 2410 showing the installation IAW DA Pam 738-751, page 165. The **red //X//** may be cleared. DA Form 2408-16 must be updated to note the modified serial number, and DA Form 2408-5-1 for the scissors lever assembly must be annotated to show compliance with SOF AH-1-99-03, TB 1-1520-236-20-15.

(b) Scissors lever assemblies from stock will be retagged with DD Form 1574 or DD Form 1574-1, serviceable (yellow tag). Note the modified serial number with DA Form 2410S IAW with para 9.d.(2), and show compliance with SOF AH-1-99-03, TB 1-1520-236-20-15 on DA Form 2408-5-1 for the scissors lever assembly. Retain the second set DA Form 2410, copy 3 with the scissors lever assembly until it is installed.

(c) Scissors and sleeve assemblies will be retagged as they were prior to the inspection, after scissors lever assemblies passing inspection are reinstalled. Note the modified serial number with DA Form 2410 IAW para 9.d.(2) and 9.d.(2) (a) to show installation, and compliance with SOF AH-1-99-03, TB 1-1520-236-20-15 on DA Form 2408-5-1 for the scissor lever assembly.

**10. Supply/Parts and Disposition.**

**a. Parts Required.** Items cited in para 6 and 7 may be required to replace defective items.

**b. Requisitioning Instructions.** Requisition replacement parts using normal supply procedures. All requisitions shall use project code (CC 57-59) "XFC".

**NOTE**

**Project code "XFC" is required to track and establish a database of stock fund expenditures incurred by the field as a result of SOF/TB actions.**

**c. Bulk and Consumable Materials.** N/A.

**d. Disposition.** Scissors lever assemblies that have failed either FPI or ECI will be tagged unserviceable, condemned (red tag) DD Form 1577. A DA Form 2410 must accompany any returned scissors assemblies. Ship these parts to: DODAC W31POW, Transportation Officer Building 8022, Mark for: RTTC, Building 4500, ATTENTION: STERT-TE-E-CS (FSP), Redstone Arsenal, AL 35898-5222.

**NOTE**

**List serial numbers of enclosed scissors lever assemblies on shipping container. Please note on tag as to whether part failed FPI or NDI.**

**e. Disposition of Hazardous Material.** IAW Environmental Protection Agency directives as implemented by your servicing environmental coordinator (AR 200-1).

**11. Special Tools and Fixtures Required.** As Required.

**12. Application.**

**a. Category of Maintenance.** AVIM. Aircraft downtime will be charged to AVIM.

**b. Estimated Time Required.**

- (1) Inspection of serial number of scissors assembly:
  - (a) Total of 0.5 manhours using 1 person.
  - (b) Total of 0.5 hours downtime for one end item. 0.5 hour using 1 person.
- (2) Total downtime for removal, inspection and reinstallation of scissors lever assembly:
  - (a) Total of 8 manhours using 1 persons.
  - (b) Total of 8 hours downtime for one end item.

**c. Estimated Cost Impact to the Field.**

Nomenclature	Part Number/NSN	Quantity	Cost Each
Scissors Lever Assembly	P/N 209-010-405-7 NSN 1615-00-442-2513	2	\$509.08

**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.**

- a. TM 55-1520-236-23.
- b. TM 55-1500-335-23.
- c. TM 1-1520-255-23.
- d. TM 55-1500-345-23.

**14. Recording and Reporting Requirements.**

**a. Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of this TB on DA Form 2408-13-1 for all subject mission design series (MDS) aircraft, forward a priority message, datafax or E-mail to CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), IAW AR 95-1. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-Mail address is <safeadm@redstone.army.mil>. The report will cite this TB number, date of entry on DA Form 2408-13-1, the aircraft MDS, and serial numbers of aircraft in numerical order.

**b. Task/Inspection Reporting Suspense Date (Aircraft).** N/A.

**c. Reporting TB Receipt (Spares).**

(1) **Materiel in wholesale depot storage.** Report receipt of this TB/message by e-mail or datafax to the wholesale materiel (spares) point of contact listed in para 16.c. within 3 working days from the date of the message. Provide local point of contact.

(2) **Materiel in retail storage.** NA.

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

(1) **Materiel in wholesale depot storage.** Report compliance with this TB/message to the wholesale materiel (spares) point of contact listed in para 16.c. within 7 working days from the date of the message, on DD Form 1225. Report, by original serviceable condition code, the quantity of materiel placed in condition code //J//. Report by e-mail or datafax and provide local point of contact.

(2) **Materiel in retail storage.** Report compliance with this message to the logistical point of contact in paragraph 16.b. within 14 days of the date of this TB/message. Report the quantity inspected by condition code and the resulting condition code. Report by e-mail or datafax and provide local point of contact.

**e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 June 1992:**

**NOTE**

**For Unit Level Logistics System-Aviation (ULLS-A) users, use applicable electronic "-E" forms.**

- (1) DA Form 2408-5-1, Equipment Modification Record (Scissors Lever Assembly).
- (2) DA Form 2408-13, Aircraft Status Information Record.
- (3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
- (4) DA Form 2408-13-2, Related Maintenance Actions Record.
- (5) DA Form 2408-15, Historical Record for Aircraft.
- (6) DA Form 2408-16, Aircraft Component Historical Record.

(7) DA Form 2410, Component Removal and Repair/Overhaul Record.

(8) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label-Materiel (Color Yellow). Annotate the Remarks block with "Inspected Serviceable IAW SOF AH-1-99-03, TB 1-1520-236-20-15".

(9) DD Form 1575/DD Form 1575-1, Suspended Tag/Label-Materiel (Color Brown). Annotate the Remarks block with "Suspended IAW SOF AH-1-99-03, TB 1-1520-236-20-15".

(10) DD Form 1576/DD Form 1576-1, Test/Modification Tag/Label-Materiel (Color Blue). Annotate Authority Block with "SOF AH-1-99-03, TB 1-1520-236-20-15".

(11) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label-Materiel (Color Red). Annotate the Remarks block with "Condemned IAW SOF AH-1-99-03, TB 1-1520-236-20-15".

(12) DD Form 1577-2/DD Form 1577-3, Unserviceable (Reparable) Tag/Label-Materiel (Color green). Annotate the Remarks block with "Unserviceable IAW SOF AH-1-99-03, TB 1-1520-236-20-15".

**15. Weight and Balance.** N/A.

**16. Points of Contact:**

**a.** Technical points of contact for this TB are Mr. Gerald Johnson, AMSAM-AR-E-I-B-H, DSN 645-9545 or (256) 955-9545, Datafax is DSN 645-9536. E-mail is <johnson-gf@redstone.army.mil> or Ms. Denise Bouchard, AMSAM-AR-E-I-B-H, DSN 645-9740 or (256) 955-9740, Datafax is DSN 645-9536. E-mail is <bouchard-de@redstone.army.mil>.

**b.** Logistical point of contact for this TB is Mr. Ed Grimble, AMSAM-DSA-CO, DSN 645-7968 or commercial (256) 955-7968. Datafax is DSN 645-9536 or (256) 955-9536. E-mail is <grimble-ef@redstone.army.mil>.

**c.** Wholesale material point of contact (spares) is Ms. Theresa Dougherty, AMSAM-MMC-VS-UN, DSN 897-1137 or (256) 313-1137. Datafax is DSN 897-1558. E-mail is <dougherty-ta@redstone.army.mil>.

**d.** Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-RE-FF, DSN 746-5564 or commercial (256) 876-5564. Datafax is DSN 746-4904 or (256) 876-4904. E-mail is <waldeck-ab@redstone.army.mil>.

**e.** Safety point of contact for this TB is Mr. Howard Chilton, AMSAM-SF-A, DSN 897-2068 or commercial (256) 313-2068. Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <chilton-hl@redstone.army.mil>.

**f.** Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact either CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0681 or commercial (256) 313-0681; E-mail is <wittstrom-jl@redstone.army.mil> or Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869; datafax is DSN 897-0411 or (256) 313-0411; E-mail is <sammons-rw@redstone.army.mil>. Huntsville, Alabama is GMT minus 6 hours.

**g.** After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067. Huntsville, Alabama is GMT minus 6 hrs.

**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 Missile Command, ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, Alabama 35898-5230.

A reply will be furnished to you. You may also send in your comments electronically to our E-mail address at <ls-lp@redstone.army.mil> or by datafax at DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a DA Form 2028 by E-mail may be found a the back of most TMs.

By Order of the Secretary of the Army:

Official:

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