

URGENT

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**ONE TIME INSPECTION OF SWASHPLATE ANTI-
DRIVE LINK ASSEMBLIES, P/N 209-010-410-5, FOR
ALL AH-1 SERIES AIRCRAFT**

**Headquarters, Department of the Army, Washington, D. C.
27 November 1998**

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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THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.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 Technical Bulletin (TB), 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 in accordance with AH-1-99-ASAM-02/TB 1-1520-236-20-14." The **circled red //X//** may be cleared when the inspection specified in paragraph 8 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 AH-1-99-ASAM-02 and this TB within the time frame will cause the status symbol to be upgraded to a **red //X//**. The aircraft may be reported as fully mission capable (FMC) while it is on a **circled red //X//**.

b. Aircraft in Depot Maintenance. Same as paragraph 1.a. above. Aircraft will not be issued until compliance with this TB has been completed.

c. Aircraft Undergoing Maintenance. Same as paragraph 1.a. above. Aircraft will not be released until compliance with this TB has been completed.

d. Aircraft in Transit.

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

***This TB supersedes USAAMCOM Safety of Flight Message 051442Z November 98, AH-1-99-02.**

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

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

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

(1) Immediately upon receipt of this TB all items listed in paragraph 6 shall be placed in condition code **//J//** and retagged with a materiel condition tag/label, suspended (brown tag) DD Form 1575 or label DD Form 1575-1. The Remarks block must reference inspection required per AH-1-99-ASAM-02 (TB 1-1520-236-20-14). Upon completion of the required inspection, items will be retagged either serviceable (yellow tag) DD Form 1574 or unserviceable (condemned)(red tag) DD Form 1577, dependent on the results. In addition, field units receiving the subject link must inspect (yellow tag) DD Form 1574 to determine that TB 1-1520-236-20-14 has been complied with prior to installation on aircraft. Items listed in paragraph 6 will not be issued until compliance with this message is complete.

(2) Inspect prior to installation on aircraft.

g. **Components/Parts in Work. (Depot Level and Others)** Same as paragraph 1.f.

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

3. **Reporting Compliance Suspense Date.** No later than 1 Dec 98 IAW paragraph 14.a. of this TB.

4. **Summary of the Problem.**

a. **Background.** During a fatigue test program, a swashplate anti-drive link assembly was found to contain cracks and other defects caused by the manufacturing process. The nature of the cracks and the environment that the part operates in could lead to a life reduction. The suspect parts were manufactured by McGinty Machine (CAGE Code 24543).

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

c. **The purpose of this TB is to:** Require a one-time mandatory inspection and removal of suspect swashplate anti-drive link assemblies manufactured by McGinty Machine (CAGE Code 24543) installed on aircraft and from all stock.

5. **End Item to be inspected.** All AH-1 series aircraft.

6. **Assembly Components to be inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Swashplate Anti-drive Link Assembly	209-010-410-5	1615-00-771-1432

7. **Parts to be inspected:** N/A.

8. **Inspection Procedures.**

NOTE

The serial number for the swashplate anti-drive link assembly is on a data plate affixed to the link. McGinty (CAGE Code 24543) serial numbers involved range from M0001 to M0350.

a. Visually inspect all swashplate anti-drive link assemblies, P/N 209-010-410-5, NSN 1615-00-771-1432 for serial numbers beginning with "M".

b. If the serial number begins with "M", verify that the contractor and government entity is that of McGinty Machine (CAGE Code 24543). If the part is verified to be a McGinty part, proceed to paragraph 9.

c. If the swashplate anti-drive link assembly does not have a serial number beginning with "M" and is verified to not be a McGinty Machine link, the inspection is complete and the circled red //X// may be cleared. Parts in stock will be retagged with DD Form 1574 or DD Form 1574-1, serviceable (yellow tag) annotated "compliance with TB 1-1520-236-20-14/SOF AH-1-99-02 is completed."

d. If the swashplate anti-drive link assembly cannot be positively identified as not manufactured by McGinty Machine (CAGE Code 24543), contact the technical point of contact listed at paragraph 16.a. for additional markings and identification information.

9. Correction Procedures.

a. For swashplate anti-drive link assemblies installed on aircraft, replace the suspect link per TM 55-1520-236-23 with a serviceable part from supply. Tag McGinty links as unserviceable (condemned) with DD Form 1577 (red). Disposition unserviceable parts as specified in paragraph 9.b.

b. Parts in stock at all levels: Tag McGinty links as unserviceable (condemned) with DD Form 1577 (red). Ship suspect swashplate anti-drive link assemblies to:

DODAC W31POW, Transportation Officer, Bldg 8022

Mark for: RTTC, Building 4500

ATTENTION: STERT-TE-E-CS (FSP)

Redstone Arsenal, AL 35898-5222.

NOTE

List serial number(s) of enclosed swashplate anti-drive link assemblies on shipping containers.

10. Supply/Parts and Disposition.

a. **Parts Required.** Items cited in paragraph 6 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) "XEF".

NOTE

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

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

d. **Disposition.** See paragraph 9.b.

e. **Distribution of Hazardous Material.** N/A.

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

12. Application.

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

b. **Estimated Time Required.**

- (1) Read serial number of swashplate anti-drive link: 0.5 hour using 1 person.
- (2) Replacement of swashplate anti-drive link: 1 hour using 1 person.
- (3) Total downtime to replace swashplate anti-drive link: 1.5 hours.

c. **Estimated Cost Impact of Stock Fund Items to the Field.**

NOMENCLATURE	P/N	NSN	QTY.	COST EA.	TOTAL \$
Swashplate Anti-drive Assembly	209-010-410-5	1615-00-771-1432	1	\$313.52	\$313.52

d. **TB/MWOs to be Applied Prior to or Concurrently with this Inspection.** N/A.

e. **Publication Which Require Change as a Result of This Inspection.** N/A.

13. **Reference.** TM 55-1520-236-23.

14. **Recording and Reporting Requirements.**

a. **Reporting Compliance Suspense Date (Aircraft).** IAW AR 95-1, 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 CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer) Redstone Arsenal, AL. 35898-5222. 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/message 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 Message Receipt Date (Spares).** N/A.

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 paragraph 16.c. on DD Form 1225 within 7 working days from the date of the message. Provide the cost of compliance with the message to include an estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraph 6 to a work area, unpack the materiel, repack the materiel after inspection, and to return the materiel to storage, as appropriate. Report, by original serviceable condition code, the quantity of materiel placed in condition code *///*. Report by E-mail or datafax and provide a 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 this 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

ULLS-A users will use applicable "E" forms.

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

(2) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(3) DA Form 2408-15, Historical Record for Aircraft.

(4) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label - Materiel (color yellow). Annotate remarks block with "Inspected Serviceable IAW AH-1-99-02 (TB 1-1520-236-20-14)."

(5) DD Form 1575/DD Form 1575-1, Suspended Tag/Label - Materiel (color brown). Annotate remarks block with "Suspended IAW AH-1-99-02 (TB 1-1520-236-20-14)."

(6) DD Form 1577/DD Form 1577-1, Unserviceable (condemned) Tag/Label - Materiel (color red). Annotate remarks block with "Condemned IAW AH-1-99-02 (TB1-1520-236-20-14)."

(7) DD Form 1577-2/DD Form 1577-3, Unserviceable (reparable) tag/label - Materiel (color green). Annotate remarks block with "Unserviceable IAW AH-1-99-02 (TB1-1520-236-20-14)."

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 commercial (256) 955-9545. Datafax is DSN 645-9536 or (256) 955-9536, E-mail <johnson-gf@redstone.army.mil> or Ms. Denise Bouchard, AMSAM-AR-E-I-B-H, DSN 645-9735 OR (256) 955-9735, Datafax DSN 645-9536, E-mail <bouchard-de@redstone.army.mil>.

b. Logistical point of contact for this TB is Mr. Joseph Dewitt, AMSAM-DSA-CO, DSN 645-9551 or commercial (256) 955-9551. Datafax is DSN 645-9536 or (256) 955-9536. E-mail is <dewitt-jh@redstone.army.mil>.

c. Wholesale Materiel (Spares) point of contact for this TB is Ms. Evette Pigott, AMSAM-MMC-VS-UN, DSN 897-1091 or commercial (256) 313-1091, Datafax is DSN 897-1558 or (256) 313-1558. E-mail is <pi-gottce@exchange1.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 <wal-deck-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 <wittstrom-jl@redstone.army.mil> or Mr. Ronnie W. Sammons, AM-SAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869; datafax DSN 897-0411 or (256) 313-0411, E-mail <sammons-rw@redstone.army.mil> (Huntsville, AL. is GMT minus 6 hrs).

g. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067.

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-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: <ls-lp@redstone.army.mil> or by datafax: DSN 788-6546 or commercial (256) 842-6546. Instructions for format of a DA Form 2028 by E-mail may be found at the back of most TM's.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
04869

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To be distributed in accordance with Initial Distribution Number 313801, requirements for TB 1-1520-236-20-14.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE NO.

PARA-GRAPH

FIGURE NO.

TABLE NO.

IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



