

URGENT

TB 1-1520-238-20-68

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

INSPECTION OF HOSE ASSEMBLY, HYDRAULIC PRIMARY SYSTEM FOR CHAFING, P/N 7-311830102-5, ON HOSE CLAMP P/N HS4501SS09NB

Headquarters, Department of the Army, Washington, D. C.
13 November 1995

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NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL SUBJECT AH-64A AIRCRAFT HAVE BEEN INSPECTED, UNLESS SOONER RESCINDED OR SUPERSEDED.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 charged to a *red horizontal dash//*. The *red horizontal 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 message within the time frame will cause the status symbol to be upgraded to a *red //*.

b. Aircraft in Depot Maintenance. Aircraft will not be issued until compliance with this TB has been completed.

c. Aircraft Undergoing Maintenance. Aircraft will not be issued until compliance with this TB has been completed.

d. Aircraft in Transit.

(1) Surface/Air Shipment. Within 10 hours or 14 days of arrival.

(2) Ferry Status

(a) Inspect at final destination.

(b) Those Aircraft that have DD250 and are at McDonnell Douglas Helicopter Systems will be inspected prior to ferry to final destination.

- e. Maintenance Trainers (Category A, B). Same as paragraph 1.a above.
- f. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others). N/A
- g. Aircraft Undergoing Test: Aircraft serial numbers 84-24273, 83-23814, 83-23818, are not affected by this message.
 - (1) Retail Stock. N/A
 - (2) Wholesale Stock N/A

2. Task/inspection Suspense Date. within 10 hours/14 days.

3. Reporting Compliance Suspense Date. No later than 26 October 1995 per paragraph 14.a of this TB.

4. Summary of the Problem.

- a. A recent failure has been attributed to the chafing of hose clamp P/N HS4501SS09NB on hose P/N 7-311830102-5, (Primary Hydraulic Pressure Line). The hose was chafed completely through and hydraulic pressure was lost during approach to landing. The hose clamp was too large since it had been sized for the previous hose which had a braided sleeve.
- b. For manpower/downtime and funding impact, see paragraph 12.
- c. The purpose of this TB is to replace the hose clamp P/N HS4501SS09NB with hose clamp P/N M85052/1-7 and to inspect the primary pressure line P/N 7-311830102-5 for chaffng and damaged braid.

5. End Items to be inspected. All AH-64 Aircraft.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Hose Clamp	HS4501SS09NB	5340-01-296 6545
Hydraulic Hose	7-311830102-5	4720-01-300-2989

7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Hose Clamp	HS4501SS09NB	5340-01-296 6545
Hydraulic Hose	7-311830102-5	4720-01-300-2989

8. Inspection Procedures.

- a. Aircraft to be inspected must be in compliance with MWO 55-1520-238-50-7 and have P/N 7-311830102-5 installed. Aircraft not in compliance with MWO 55-1520-238-50-7 and have hose P/N 7-311830101-7 should contact the logical point of contact. Aircraft not in compliance with MWO 55-1520-238-50-7 are not affected by this message. Aircraft at Ft. Rucker S/N 84-24273, 83-23814, 83-23818 are equipped with prototype hydraulic hose and are not affected by this message.
- b. Inspect hydraulic hose, 7-311830102-5, for damage and chafing, none allowed. If hose is discrepant, proceed to paragraph 9. If hose is in satisfactory condition, install new hose clamp, P/N M85052/1 -7, NSN 5340-01-129-5593. Remove hose clamp PIN HS4501SS09NB per reference 13a. paragraph 7.5, step 7.5.3a (1) and discard clamp.

9. Correction Procedures. Replace hydraulic hose, P/N 7-311830102-5, per reference 13a., paragraph 7.5. Do not reuse hose clamp, P/N M85052/1-7.

10. Supply/Parts and Disposition.

- a. Parts Required. Items cited in paragraph 6 and 7 may be required to replace defective items.
- b. Requisitioning Instructions. Requisition replacement parts through normal supply channels using normal supply procedures. All requisitions shall use project code "XBK" per this TB.

NOTE

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

- c. Bulk and Consumable Materials.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Hose Clamp	M85052/1-7	5340-01-129-5593

- d. Disposition. Dispose of removed parts/components in accordance with normal supply procedures. A QDR is required.
- e. Disposition of Hazardous Material. N/A.

11. Special Tools, Jigs and Fixtures Required. NVA.

12. Application.

- a. Category of Maintenance. AVUM. Aircraft downtime will be charged to AVUM Maintenance.
- b. Time Required.
 - (1) Total of 2 man-hours using 1 person.
 - (2) Total of 2 hours downtime for one end item.
- c. Estimated Cost Impact of Stock Fund Items to the field.

NOMENCLATURE	PART NUMBER/ NATIONAL STOCK NUMBER	QUANTITY	COST EACH	TOTAL \$
Hose Clamp	M85052/1-7	1	\$.95	\$.95
Hydraulic Hose	7-311830102-5	1	\$ 174.82	\$ 174.82
Maximum total cost per aircraft = \$ 175.77				

- 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 1-1520-238-23P 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 1-1520-238-23, Aviation Unit and Intermediate Maintenance Manual, Army Model AH-64A Helicopter, dated 16 May 94.
- b. TM 1-1520-238-23P, Repair Parts and Special Tools List, dated 28 April 1995.

14. Recording and Reporting.

a. Reporting compliance suspense date (Aircraft). Upon entering requirements of this TB on DA Form 2408-13-1 on all subject MDHS aircraft, forward a priority message, datafax or E-Mail to Commander, ATCOM, ATTN: AMSAT-R-X (SOF Compliance Officer), per AR 95-3. Datafax number is DSN 693-2064 or commercial (314) 263-2064. E-Mail address is "AMSATRXS@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. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 June 1992:

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

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Mr. Dan Rice, AMSAT-R-EIA, DSN 693-9870/1679 or commercial (314)263-9870/1679.

b. Logistical point of contact for this TB is Mr. Jim Mason, SFAE-AV-AAH-LF, DSN 693-1947 or commercial (314)263-1947.

c. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAT-I-MDM, DSN 693-1821 or commercial (314)263-1821.

d. Safety point of contact for this TB is Mr. Jim Wilkins. AMSAT-R-X, DSN 693-2258 or commercial (314)263-2258.

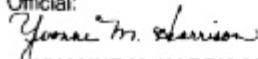
e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact Mr. Ron Van Rees or CW5 Jay Nance, AMSAT-I-IAF, DSN 693-3826/3659 or commercial (314)263-3826/3659.

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.

By Order at the Secretary of the Army:

Official:



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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
arts	Liters	0.473
gallons	Liters	0.946
Ounces	Liters	3.785
Pounds	Grams	28.349
Short Tons	Kilograms	0.454
Pound-Feet	Metric Tons	0.907
Pounds per Square Inch	Newton-Meters	1.356
Miles per Gallon	Kilopascals	6.895
Miles per Hour	Kilometers per Liter	0.425
	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
gallons	Gallons	0.264
ounces	Ounces	0.035
pounds	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621



PIN: 074450-000