

URGENT**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN**

**ONE TIME FLEETWIDE INSPECTION ON ALL AH-64
AIRCRAFT TO CORRECT INSTALLATION OF THE D-1
FUEL ADAPTER TO ORIGINAL POSITION IF
ROTATED IAW AH-64-96-ASAM-09, CANCELLATION**

**Headquarters, Department of the Army, Washington, D. C.
3 September 1996**

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

NOTE

**THIS PUBLICATION IS EFFECTIVE UNTIL SUBJECT AH-64A AIRCRAFT HAVE BEEN
INSPECTED, UNLESS SOONER RESCINDED OR SUPERSEDED.**

1. Priority Classification. Urgent

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 horizontal dash //-. The red horizontal dash //-. may be cleared when the correction procedures of paragraph 9 below are completed. The affected aircraft shall be inspected as soon as practical but no later than the task/inspection suspense date.

b. Aircraft in Depot Maintenance. Same as paragraph 1.a.

c. Aircraft Undergoing Maintenance. Same as paragraph 1.a.

d. Aircraft in Transit.

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

(2) Ferry Status.

(a) Same as paragraph 1.a.

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

e. Maintenance Trainers (Category A and B). Same as paragraph 1.a above.

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

This TB supersedes USAATCOM Aviation Safety Action Message 141550Z Aug 96 AH-64-96-ASAM-10

2. Task/Inspection Suspense Date.

a. Reposition Fuel Adapter to original position if previously rotated 180 degrees IAW AH-64-96-ASAM-09 no later than the next phase. Repositioning will place the cast TOP on the bottom.

3. Reporting Compliance Suspense Date. No later than 3 September 1996 per paragraph 14.a of this TB. This publication is effective until 3 September 1998 unless sooner rescinded or superseded.

4. Summary of the Problem.

a. The D-2 (Straight) nozzle was used to verify/validate clocking procedures instead of the standard Army D-1 (45 degree bend) nozzle. Also, there is more than one configuration of the D-1 Fuel Nozzle being used. ATCOM LARs have reported that after the fuel adapter was rotated 180 degrees IAW AH-64-96-ASAM-09, the D-1 fuel ON/OFF lever contacted the airframe at the two o'clock position on some aircraft, therefore, dependent upon the configuration of the adapter, not allowing fuel to flow to the aircraft. The original L-shaped configuration of the fuel adapter allowed an unobstructed fit of the fuel ON/OFF lever into the opening where the fuel nozzle attached. The second configuration does not allow the unobstructed fit, thereby restricting fuel flow.

b. For manpower/downtime and funding impacts, see paragraph 12.

c. The purpose of this TB is to cancel AH-64-96-ASAM-09 and return the fuel adapter to its original position if clocked IAW AH-64-96-ASAM-09. This will alleviate problems for these aircraft when refueling at different Army locations. Repositioning will place the cast word TOP on the bottom.

5. End Items to be Inspected. All AH-64 aircraft.

6. Assembly Components to be Inspected. N/A.

7. Parts to be Inspected. N/A

8. Inspection Procedures. N/A

9. Correction Procedures. If the D-1 fuel adapter was rotated 180 degrees IAW AH-64-96-ASAM-09, reinstall the fuel adapter to its original position in the housing IAW reference 13b., task 10.96.6. Repositioning will place the cast word TOP on the bottom.

10. Supply/Parts and Disposition. If fuel adapter is repositioned IAW AH-64-96-ASAM-09, contact your local Logistics Assistance Representative for the required preform packing (MS29513-153) per paragraph 16b.

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

12. Application.

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

b. Estimated Time Required. Total of 2.0 manhours using two persons for reposition.

c. Estimated Cost Impact of Stock Fund Items to the Field. N/A.

d. Publications Which Require Change as a Result of This Inspection. N/A

13. References.

a. TM 1-1520-238-23-1, Aviation Unit and Intermediate Maintenance Manual dated 16 May 1994.

b. TM 1-1520-238-23-6, Aviation Unit and Intermediate Maintenance Manual dated 16 May 1994.

14. Recording and Reporting Requirements.

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@EMH4.STL.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, Aircraft Status Information Record.
 - (2) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.
 - (3) DA Form 2408-13-2, Related Maintenance Actions Record.
 - (4) DA Form 2408-15, Historical Record for Aircraft.
 - (5) DA Form 2408-14, Uncorrected Fault Record.

15. Weight and Balance. N/A.

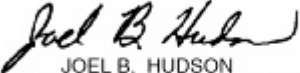
16. Points of Contact.

- a. Technical point of contact for this TB is Mr. Fred Banks, AMSAT-R-EIA, DSN 693-3243 or commercial (314)263-3243.
- 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 490-2318 or commercial (314)260-2318.
- d. Safety point of contact for this TB is Ms. Tammy Nelson, AMSAT-R-X, DSN 693-1601 or commercial (314)263-1601.
- e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact Mr. Ron Van Rees, AMSAT-D-SAF, DSN 693-7844/3659 or commercial (314)263-7844/3659. Datafax is (314)263-2917.
- 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 <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you.

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Acting Administrative Assistant to the
Secretary of the Army*
02162

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

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

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|---|----------------|---------------|------------------|--|-------------------|--|--|
|  <div style="display: inline-block; border: 1px solid black; border-radius: 15px; padding: 5px; margin-left: 20px;"> <p style="font-size: small; margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p> </div> | | | | SOMETHING WRONG WITH PUBLICATION | | | |
| FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS) | | | | DATE SENT | | | |
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| BE EXACT PIN-POINT WHERE IT IS | | | | IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT. | | | |
| PAGE NO. | PARA- GRAPH | FIGURE NO. | TABLE NO. | | | | |
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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

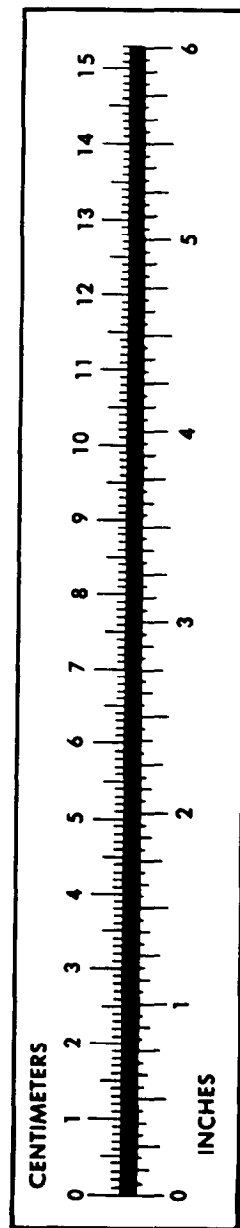
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 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 |
| 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 |



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