

01 13 211335Z MAR 97 PP PP UUUU AA ZYUW

NO

CDRATCOM ST LOUIS MO//AMSAT-R-X//

AIG 8881

AIG 9004

AIG 9042

AIG 8708

AIG 7515

AIG 7471

AIG 12124

DCM APMO OZARK AL//DCMDE-AOA//

CDRCHDCOM ABERDEEN PROVING GROUND MD//AMSCB-OP/OPA//

CDRUSAGAPG ABERDEEN PROVING GROUND MD//STEAP-PF-V//

RAYTHEON RANGE SYSTEMS ENGINEERING KWAJALEIN MH//PAT2//

CDR WHITE SANDS MISSILE RANGE NM//STEWS-NRS-AA-MQA//

CDRDGP DUGWAY UT//STEDP-AVN//

USDOCO LANDSOUTHEAST IZMIR TU//AV//

DPRO BELL HELICOPTER FORT WORTH TX//DCMDS-RBOB/RBP//

WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA//

CODE 831.2 AIRCRAFT QA//

INFO TSM ATK HEL FT RUCKER AL//ATZQ-TSM-A//

HQAFSPC PETERSON AFB CO//LGM/SEF//

AMCPM-CO, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S,  
AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

JIM WILKINS, AEROSPACE ENGINEER      MINIMIZE CONSIDERED  
AMSAT-R-X, X2258

NORBERT R. KNIEPP, X2178

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*UH-1-97-AS AM-03  
high press. fuel fittings  
replace all with stainless  
fittings*

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03 13 211335Z MAR 97 PP PP UUUU AA ZYUW

NO

AMEMBASSY ANTANANARIVO MA

AMEMBASSY PORT LOUIS

SAO KUALA LUMPUR MY

AMEMBASSY KATHMANDU NP//POL-MIL//

UNCLAS

SUBJECT - AVIATION SAFETY ACTION MESSAGE, MAINTENANCE  
MANDATORY, RCS CSGLD-1860(R1), ALL UH-1 AND AH-1 SERIES,  
MANDATORY REPLACEMENT OF HIGH PRESSURE FUEL FITTING (UH-1-97-  
ASAM-03)(AH-1-97-ASAM-02)(TB 1-2840-229-20-11).

NOTE - THIS IS AN AVIATION SAFETY ACTION MESSAGE ISSUED PER  
AR 95-3, CHAPTER 5 REVISION VIA MESSAGE HQ AVSCOM, AMSAV-  
XSOF, 181900Z SEP 90, SUBJECT: CHANGE TO AR 95-3, CHAPTER  
5, SAFETY OF FLIGHT MESSAGES. THIS MESSAGE HAS NOT BEEN  
TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSEES. ADDRESSEES  
SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO ALL  
SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR  
CONCERNED. THE RETRANSMITTAL SHALL REFERENCE THE MESSAGE.  
ACTION ADDRESSES WILL IMMEDIATELY VERIFY THIS RETRANSMISSION  
TO COMMANDER, ATCOM, ATTN - AMSAT-R-X (SOP COMPLIANCE  
OFFICER).

AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S,  
AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

F. COMPONENT/PARTS IN STOCK INCLUDING WAR RESERVES AT ALL LEVELS (DEPOT AND OTHERS) - UPON RECEIPT OF THIS MESSAGE THE MATERIEL IN CONDITION CODE //A// LISTED IN PARA 6 BELOW SHALL BE PLACED IN CONDITION CODE //D// AND RETAGGED WITH A TEST/MODIFICATION TAG/LABEL-MATERIEL (BLUE COLOR) DD FORM 1576/1576-1. THE AUTHORITY BLOCK MUST REFERENCE INSPECTION REQUIRED PER THIS MESSAGE (TB 1-2840-229-20-11). DO NOT REMOVE SERVICABLE TAGS. ATCOM WILL DISPATCH A MAINTENANCE TEAM TO THE DEPOTS TO INSPECT/REPAIR AND COMPLY WITH TAMMS REQUIREMENTS. THIS COMMAND WILL COORDINATE WITH DEPOT ON MAINTENANCE TEAM.

2. TASK/INSPECTION SUSPENSE DATE - WITHIN 25 HOURS/60 DAYS.

3. REPORTING COMPLIANCE SUSPENSE DATE - NO LATER THAN 11 APR 1997 PER PARA 14A OF THIS MESSAGE.

4. SUMMARY OF PROBLEM -

A. AN INFLIGHT FIRE ON A UH-1 AIRCRAFT HAS BEEN DETERMINED TO HAVE ORIGINATED FROM A CRACKED HIGH PRESSURE FUEL FITTING. BOTH THE UH-1 AND AH-1 HELICOPTERS USE THIS FITTING ON THE T53 ENGINES. THE FITTING IS MADE OF ALUMINUM. AN ANALYSIS HAS SHOWN THAT, IN THIS APPLICATION, AMCPM-CO, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

THE PRESENT ALUMINUM FITTING IS INSUFFICIENT IN STRENGTH.  
TO PREVENT FUTURE FAILURES OF THESE FITTINGS, THEY ARE BEING  
REMOVED FROM SERVICE AND REPLACED BY A STAINLESS STEEL  
FITTING.

B. FOR MANPOWER/DOWNTIME AND FUNDING IMPACTS SEE PARA  
12.

C. THE PURPOSE OF THIS MESSAGE IS TO REQUIRE A ONE  
TIME REPLACEMENT OF THE ALUMINUM HIGH PRESSURE FITTING WITH  
A STAINLESS STEEL FITTING.

5. END ITEMS TO BE INSPECTED - ALL UH-1H/V AND AH-1  
AIRCRAFT.

6. ASSEMBLY COMPONENTS TO BE INSPECTED -

NOMENCLATURE	PART NO.	NSN
T53 ENGINE	1-000-060-22	2840-00-134-4803
	1-000-060-23	2840-00-621-1860
FUEL CONTROL MAIN	106500A1 (TA-7)	2915-01-216-9779
	100770A4 (TA-7)	2915-01-005-9197

7. PARTS TO BE INSPECTED -

NOMENCLATURE	PART NO.	NSN
NIPPLE, TUBE	MS24392D4	4730-00-834-9560

AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S,  
AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

ALTERNATE HARDWARE:

UNION, FLARED TUBE AN815-4D

8. INSPECTION PROCEDURES -

A. THE CURRENT NIPPLE IS USED IN FIVE (5) LOCATIONS ON THE T53 ENGINE; THE AIRBLEED HOSE (1 EACH), IGV ACTUATOR (2 EACH), ACCESSORY DRIVE GEARBOX (1 EACH), FUEL LINES (1 EACH), AND MAIN FUEL CONTROL/OVERSPEED GOVERNOR (4 EACH). (REFERENCE TM 1-2840-260-23P, FIGURE 2, ITEM 11; FIGURE 4, ITEM 11; FIGURE 31, ITEM 8; FIGURE 47, ITEM 25; FIGURE 51, ITEM 6).

B. IMPLEMENT REPLACEMENT PER PARAGRAPH 9.

9. CORRECTION PROCEDURES -

NOTE

THE APPROVED ITEM NAME IS TUBE NIPPLE, TM 55-2840-229-23 USES THE ITEM NAME UNION. BOTH TERMS ARE THE SAME IN INTENT.

NOTE

DO NOT REMOVE FUEL CONTROL TO REPLACE THE NIPPLES. CAP ALL FITTINGS AND HOSES TO PREVENT CONTAMINATION.

A. REMOVE THE CURRENT MS24392D4 NIPPLE (5 LOCATIONS AS AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

REFERENCED IN PARA 8A) IAW TM 55-2840-229-23. REMOVAL AND REPLACEMENT OF THE BLEED BAND HIGH PRESSURE FITTING AT THE FUEL CONTROL WILL BE DIFFICULT. THE CLEARANCE BETWEEN THE HEX OF THE FITTING AND THE SURROUNDING HOUSING IS INSUFFICIENT TO ALLOW A STANDARD SOCKET OR WRENCH TO BE USED. REMOVE THIS FITTING AS FOLLOWS:

- (1) DISCONNECT THE WIRING BUNDLE AFT OF THE FUEL CONTROL AND MOVE IT OUT OF THE WAY.
- (2) REMOVE THE FUEL HOSE (FIGURE 47, ITEM 18).
- (3) MODIFY A THIN WALL 11/16 INCH 3/8 INCH DRIVE 12 POINT SOCKET BY GRINDING OR TURNING THE OUTSIDE DIAMETER, REMOVING JUST ENOUGH MATERIAL TO ALLOW IT TO FIT ONTO THE FITTING AND CLEAR THE SURROUNDING HOUSING. APPROXIMATE FINAL DIMENSIONS WILL BE 0.915 INCH DIAMETER AND FOR A 0.100 INCH LENGTH. OTHER METHODS OF TOOL MODIFICATIONS ARE AUTHORIZED AS LONG AS A MODIFIED TOOL FULLY ENGAGES THE NIPPLE HEX.

(4) AN ALTERNATE METHOD OF REMOVAL OF THE FITTING IS TO USE A PAIR OF LOCKING PLIERS (VICE GRIPS) ON THE THREADS OF THE ALUMINUM FITTING.

AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

B. INSTALL STAINLESS STEEL NIPPLES, MS24392J4, NSN 4730-00-684-6912, AND PREFORMED PACKING, MS83248/1-904, NSN 5330-00-020-0203, AND TORQUE NIPPLE (ALL LOCATIONS) TO 55 TO 65 IN-LBS.

10. SUPPLY/PARTS AND DISPOSITION -

A. PARTS REQUIRED - ITEMS CITED IN PARAGRAPHS 9B WILL BE REQUIRED TO REPLACE DEFECTIVE ITEMS.

B. REQUISITIONING INSTRUCTIONS - NORMAL SUPPLY PROCEDURES.

C. BULK AND CONSUMABLE MATERIALS - ONE 11/16 INCH 3/8 DRIVE 12 POINT SOCKET MODIFIED PER PARA 9.A.(3), AND AS STATED IN MESSAGE.

D. DISPOSITION - DISPOSE OF REMOVED PARTS/COMPONENTS IN ACCORDANCE WITH NORMAL SUPPLY PROCEDURES.

E. DISPOSITION OF HAZARDOUS MATERIAL - N/A.

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 -

AMCFM-CO, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO

(1) TOTAL OF 6 MANHOURS USING 1 PERSON.

(2) TOTAL OF 6 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED COST IMPACT OF STOCK FUND ITEMS TO THE FIELD - N/A.

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 1-2840-260-23P, TM 55-2840-229-23, AND TM 1-2840-113 SHALL BE CHANGED TO REFLECT THIS MESSAGE. A COPY OF THIS MESSAGE SHALL BE INSERTED IN THE APPROPRIATE TM AS AUTHORITY TO IMPLEMENT THE CHANGE UNTIL THE PRINTED CHANGE IS RECEIVED.

13. REFERENCES -

A. TM 1-2840-260-23P.

B. TM 55-2840-229-23.

C. DMWR 1-2840-113.

D. DMWR 55-2915-335.

14. RECORDING AND REPORTING REQUIREMENTS -

A. REPORTING COMPLIANCE SUSPENSE DATE (AIRCRAFT) -

UPON ENTERING REQUIREMENTS OF THIS MESSAGE ON DA FORM 2408-

AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-D-S, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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