CDRH ATCOM 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//
CDRCBDCOM ABERDEEN PROVING GROUND MD//AMSCB-OP/OPA//
CDRUSAGAPG ABERDEEN PROVING GROUND MD//STEAP-PP-V//
RAYTHEON RANGE SYSTEMS ENGINEERING KWAJALEIN MH//PAT2//
CDR WHITE SANDS MISSILE RANGE NM//STEW-NRS-AA-MQA//
CDRDPG DUGWAY UT//STEDP-AVM//
USDCO LANDSOUTHEAST IZMIR TU//AV//
DPRO BELL HELICOPTER FORT WORTH TX//DCMDS-RBOB/RBP//
CDRDCO12THAVNBW DAVIDSON ARMY AIRFIELD FT BELVOIR VA
//ANAV-CBD//
WALLOPS FLIGHT FACILITY NASA WALLOPS ISLAND VA//
CODE 831.2 AIRCRAFT QA//
AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-I-IAF,
AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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

NORBERT R. KNEIPP, X2178

UNCLASSIFIED 171600ZDEC96
UNCLASSIFIED

03 12 171600Z DEC 96 PP PP UUUU AA ZYUW

NO

DSA NEW DELHI IN
AMEMBASSY ANTANANARIVO MA
AMEMBASSY PORT LOUIS
SAO KUALA LUMPUR MY
AMEMBASSY KATHMANDU NP//{{POL-MIL//}}
AMEMBASSY VICTORIA

UNCLASSIFIED

SUBJECT - AVIATION SAFETY ACTION MESSAGE, MAINTENANCE

MANDATORY, RCS CSGLD-1860(R1), UH-1H/V AND AH-1 AIRCRAFT,
THIS MESSAGE REVISES AND SUPERSEDES ASAM UH-1-96-ASAM-01(TB
1-1520-210-20-30), MANDATORY REPLACEMENT OF MAIN DRIVESHAFT
CLAMP BOLT(UH-1-97-ASAM-01(TB 1-1520-210-20-34)(AH-1-97-

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

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(1) SURFACE/AIR SHIPMENT - PRIOR TO FIRST FLIGHT.

(2) FERRY STATUS - SAME AS PARA 1A.

E. MAINTENANCE TRAINERS (CATEGORY A, B) - N/A.

F. COMPONENT/PARTS IN STOCK INCLUDING WAR RESERVES AT ALL LEVELS (DEPOT AND OTHERS) - INSPECT PRIOR TO ISSUE.

2. TASK/INSPECTION SUSPENSE DATE - WITHIN 50 FLIGHT HOURS OR 60 CALENDAR DAYS, WHICHEVER OCCURS FIRST.

3. REPORTING COMPLIANCE SUSPENSE DATE - NO LATER THAN 10 JAN 1997 PER PARA 14A OF THIS MESSAGE.

4. SUMMARY OF PROBLEM -

A. ASAM UH-1-96-ASAM-01(TB 1-1520-210-20-30) REQUIRED REPLACEMENT OF ALL UH-1 MAIN DRIVESHAFT CLAMP BOLTS AND ESTABLISHED A MANDATORY PHASE INSPECTION REPLACEMENT FOR THOSE BOLTS. AT THE TIME OF THE ORIGINAL ASAM, THE FAILED BOLT WAS THOUGHT TO BE EXTREMELY OLD AND THAT IT HAD SIMPLY FAILED DUE TO FATIGUE. SUBSEQUENT ANALYSIS INDICATES THAT THE FAILURE WAS DUE TO FATIGUE BUT NOT NECESSARILY BECAUSE OF THE AGE OF THE BOLT. THE FATIGUE CRACK IS THOUGHT TO HAVE ORIGINATED IN A MACHINING MARK ON THE BOLT HEAD-TO-SHANK RADIUS. THIS MACHINING MARK EXCEEDS THE ALLOWABLE AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-I-IAF, AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)

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NO
SURFACE FINISH REQUIREMENTS FOR THIS PART. IN ADDITION, THE
FAILED BOLT HAD THE MARKINGS SV ON THE HEAD WHICH HAS BEEN
TRACED TO A SUBCONTRACTOR ON A RECENT DLA CONTRACT. OTHER
BOLTS, OF THIS PART NUMBER, EXHIBITING THE SV LOGO HAVE
BEEN EXAMINED AND DO NOT MEET SURFACE FINISH SPECIFICATIONS.
ALL UH-1 AND AH-1 MAIN DRIVESHAFT CLAMP BOLTS WITH THESE
MARKINGS ARE SUSPECT AND NEED TO BE REPLACED. MAIN
DRIVESHAFT CLAMP BOLTS WHICH MEET SPECIFICATION ARE NOT
SUSCEPTIBLE TO FATIGUE, THUS THE PREVIOUSLY ESTABLISHED
REPLACEMENT AT EACH COMPLETE PHASE CYCLE (EVERY 900 HOURS)
FOR THE UH-1 IS NOT REQUIRED.

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

C. THE PURPOSE OF THIS MESSAGE IS REQUIRE REPLACEMENT
OF DRIVESHAFT CLAMP BOLTS EXHIBITING THE MARKINGS "SV" ON
ALL UH-1H/V AND AH-1 AIRCRAFT, PURGE THESE BOLTS FROM SUPPLY
AND ELIMINATE THE PREVIOUSLY IMPLEMENTED REPLACEMENT OF
THESE BOLTS AT EVERY SIXTH PHASE ON THE UH-1H/V AIRCRAFT.

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

AMCPM-C0, AMSAT-D-WAU, AMSAT-R-EIH, AMSAT-R-ECH, AMSAT-I-IAP,
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
6. ASSEMBLY COMPONENTS TO BE INSPECTED - N/A.

7. PARTS TO BE INSPECTED -

<table>
<thead>
<tr>
<th>Nomenclature</th>
<th>Part No.</th>
<th>NSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOLT</td>
<td>204-040-624-1</td>
<td>5306-00-724-3593</td>
</tr>
</tbody>
</table>

8. INSPECTION PROCEDURES -

A. GAIN ACCESS TO MAIN (K-FLEX) DRIVESHAFT CLAMPS.

B. INSPECT HEAD OF DRIVESHAFT BOLTS, P/N 204-040-624-1, FOR THE LETTERS "SV".

C. IF "SV" IS NOT FOUND, THE BOLT MAY REMAIN IN SERVICE.

D. IF "SV" IS FOUND, CONTINUE WITH THE CORRECTIONS OF PARAGRAPH 9.

9. CORRECTION PROCEDURES -


B. INSTALL NEW SERVICEABLE BOLTS, P/N 204-040-624-1, FROM STOCK, IAW MAINTENANCE INSTRUCTIONS.

C. REMOVE FROM STOCK ALL BOLTS, P/N 204-040-624-1, WHICH HAVE THE LETTERS "SV" ON THE HEAD.

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

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NORBERT R. KNEIPF, X2178

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B. ESTIMATED TIME REQUIRED -
   (1) TOTAL OF 1 MANHOURS USING 1 PERSONS.
   (2) TOTAL OF 1 HOURS DOWNTIME FOR ONE END ITEM.
C. ESTIMATED COST IMPACT OF STOCK FUND ITEMS TO THE FIELD -
   NOMENCLATURE PART NO./NSN QUANTITY COST EA. TOTAL $
   BOLT 204-040-624-1 5306-00-724-3593 4 $8.63
   TOTAL COST PER AIRCRAFT = $34.52
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 55-1520-210-PM.
13. REFERENCES -
   A. TM 55-1520-210-23-1.
   B. TM 55-1520-234-23-1.
   C. TM 55-1520-236-23-1.
   D. TM 55-1520-210-PM.
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-I-IAF,
   AMSAT-D-SLNO(RAAF), AMSAT-I-LOS(AOC), AMSAT-D-SLNO(IS)
   JIM WILKINS, AEROSPACE ENGINEER MINIMIZE CONSIDERED
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   NORBERT R. KNEIP, X2178
   UNCLASSIFIED 1716002DEC96