NOTE: THIS IS A SAFETY-OF-FLIGHT MAINTENANCE MANDATORY MESSAGE PUBLISHED IN ACCORDANCE WITH AR 95-18 DATED 1 MAY 1980 AND IN ACCORDANCE WITH FORTHCOMING CHANGE TO AR 95-18 APPROVED BY DEPARTMENT OF THE ARMY WHICH ESTABLISHES THE MAINTENANCE MANDATORY MESSAGE THAT MAY REQUIRE REPORTING AND IS DIRECTIVE IN NATURE. THIS MESSAGE HAS NOT, REPEAT 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 THIS MESSAGE. ACTION ADDRESSEES WILL IMMEDIATELY VERIFY THIS RETRANSMISSION TO COMMANDER, TSARCOM, ATTN: DRSTS-MPSD.


B. TB 55-1500-307-24, AIRCRAFT COMPONENTS REQUIRING MAINTENANCE MANAGEMENT AND HISTORICAL DATA, 17 MAR 82.
INSTALLED ON AH-1 (ALL MODELS) AND UH-1 (C AND M MODELS ONLY) AND OTHER COMPONENTS OF THE HYDRAULIC ACTUATOR ASSEMBLY ON ALL AH-1 CRAFT (AH-1-83-07) (UH-1-83-11)

THIS IS A SAFETY-OF-FLIGHT TECHNICAL MESSAGE RELEASED IN ACCORDANCE WITH AR 95-18 DATED 1 MAY 1980. 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 THIS MESSAGE. ACTION ADDRESSEES WILL IMMEDIATELY VERIFY THIS RETRANSMISSION TO COMMANDER, TSARCOM, ATTN DRSTS-MP50.


B. TB 55-1500-307-24, AIRCRAFT COMPONENTS REQUIRING MAINTENANCE MANAGEMENT AND HISTORICAL DATA, 17 MAR 82.

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1. SUMMARY

A. CYLINDER ACTUATOR

This part of message addresses an area of concern relative to the finite life schedule of a component of the servo cylinder. If instructions contained within this message are adhered to there will be minimal impact on readiness.

1. The prime manufacturer on the AH-1, UH-1 (C/M) aircraft has established a finite life on the servo housing of 3300 hours. As a result, a time since new (TSN) and finite life must be recorded on all servo housings. The servo housing is part of the cylinder actuator (3 per aircraft) used on all AH-1 and UH-1 (C and M model) aircraft.

2. The servo housing has a forging code number from which a manufacturing date can be derived and flight hours assigned based on time since manufacture. The flight hours or time since new (TSN) will be based on AH-1 Fleet high time aircraft.

B. BEARING HOUSING, EXTENSION TUBES AND ROD END BEARINGS

This part of message addresses an area of concern relative to the finite life schedule on components of the hydraulic actuator.

#2222
PAGE D2 RUCIFRA UNCLAS
RUEVDAE/US ENV PROT ACY REGION II 26 FEDERAL PLAZA NY NY
RUCILRFA/NATIONAL OCEANIC AND ATMOSPHERIC ADMIN PO BOX D20197
MIAMI FL 33122 //NOAA.OA2 LCDR WM HARRIGAN/
RUCILRFA/TSM ATK HEL FT RUCKER AL //ATZQ-TSM-A/
RUCILRFA/CUSMG MAAG MADRID SPAIN //ARMY/NAVY SEC/
RUEVDAE/GOD DEF MISS 850 3D AVE NOL NY 10022
RUCILRFA/CDFP USAAMC FT RUCKER AL //ATZQ-D1/
RUEVDAE/USDA FOREST SERVICE PO BOX 2417 WASH DC 20013
//COOPERATIVE FIRE PROTECTION/
RUCILRFA/CDF JACKSONVILLE FL
RUCILRFA/CDF HOMESTEAD AFB FL
ACCT DA-BHCSD
ST
UNCLAS
SECTION D2 OR D3
ASSEMBLY, IF INSTRUCTIONS CONTAINED WITHIN THIS MESSAGE ARE ADHERED TO THERE WILL BE NO IMMEDIATE IMPACT ON READINESS.

(1) OLD COMPONENTS PRIOR TO THE MODERNIZATION OF THE COBRA FIT THERE WAS NO FINITE LIFE LISTED BY THE PRIME MANUFACTURER ON T. BEARING HOUSING (PART OF THE SERVO CYLINDER ASSEMBLY), ADJACENT EXTENSION TUBES AND APPLICABLE ROD END BEARINGS (3 OF EACH PER
AIRCRAFT) AS A RESULT, OLD BEARING HOUSINGS, EXTENSION TUBES AND ROD END BEARINGS EITHER HAD TO BE REPLACED OR ALLOWED TO CONTINUE IN OPERATION AND REPLACED ON AN ATTRACTION BASIS. IT WAS DECIDED AT THAT TIME TO CONTINUE OPERATION OF THE OLD PARTS BASED ON FAILURE HISTORY.

(2) NOW THAT OLD BEARING HOUSINGS, EXTENSION TUBES AND APPLICABLE ROD END BEARINGS ARE AT A LOW STOCKAGE LEVEL IN THE INVENTORY, THE ESTABLISHMENT OF A FINITE LIFE ON THESE COMPONENTS IS CONSIDERED PRUDENT AND ESSENTIAL TO SUPPORT THE PRIME MANUFACTURERS ACTIONS DURING THE AH-1 MODERNIZATION PROGRAM.

THE FOLLOWING TABLE SUMMARIZES THE FINITE LIFE SCHEDULE REVISION DISCUSSED IN THIS MESSAGE. IT PROVIDES A QUICK OVERVIEW OF HOW PARTS WERE TREATED BEFORE THIS MESSAGE (FROM COLUMN) AND THE CHANGES REQUIRED BY THIS MESSAGE (TO COLUMN).  

<table>
<thead>
<tr>
<th>ITEM</th>
<th>A/C P/N</th>
<th>FROM</th>
<th>TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYLINDER ACTUATOR</td>
<td>UH-1 AND AH-1</td>
<td>41000310-001</td>
<td>ON-CONDITION</td>
</tr>
<tr>
<td>EXTENSION TUBE(1)</td>
<td>AH-1</td>
<td>209-074-124-1</td>
<td>ON-CONDITION</td>
</tr>
<tr>
<td></td>
<td></td>
<td>209-074-124-3</td>
<td>ON-CONDITION</td>
</tr>
<tr>
<td></td>
<td></td>
<td>209-074-124-5</td>
<td>ON-CONDITION</td>
</tr>
<tr>
<td>EXTENSION TUBE</td>
<td>AH-1</td>
<td>209-001-35A-13</td>
<td>3300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>209-001-35A-17</td>
<td>3300</td>
</tr>
</tbody>
</table>

(1) THESE PARTS MAY HAVE BEEN PREVIOUSLY TRACKED AND RECORDS KEPT LOCALLY.

(2) THE -1 AND -3 PARTS MAY HAVE BEEN PREVIOUSLY TRACKED AND RECORDS KEPT LOCALLY SUPPORTING A FINITE LIFE OF 3300 HOURS.

2. THE PURPOSE OF THIS MESSAGE IS TO
A. INSPECT THE CYLINDER ACTUATORS HOUSING FOR THE FORGING CODE NUMBER, ENTER THE TABLE IN PARAGRAPH 4A(9) WITH THE FORGING CODE NUMBER AND READ OUT THE ASSIGNED TIME SINCE NEW (TSH) AND RECORD TSN.

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AND FINITE LIFE ON DA FORM 2408-14 (AIRCRAFT COMPONENT HISTORICAL RECORD FORM). REPLACE ANY ACTUATORS THAT SHOW TIME SINCE NEW IS GREATER THAN THE ASSIGNED FINITE LIFE.

B. INSPECT THE APPLICABLE RECORDS FOR EACH BEARING HOUSING (3 PER AIRCRAFT), EXTENSION TUBE (3 PER AIRCRAFT) AND ROD END BEARINGS (3 PER AIRCRAFT) FOR RECORD OF TIME SINCE NEW (TSH) AND IF NO RECORD EXISTS, ESTABLISH A MAXIMUM OPERATING TIME ALLOWED FOR OLD BEARING HOUSINGS, OLD EXTENSION TUBES, AND RELATED OLD ROD END BEARINGS THAT HERETOFORE HAD NO FINITE LIFE REQUIREMENT.

C. IDENTIFY CERTAIN ROD END BEARINGS SUCH AS THE P/N 209-001-361-1 ROD END BEARING THAT HAS BEEN REVISED FROM A FINITE LIFE ITEM TO A CONDITION CHANGE ITEM. THE FINITE LIFE ASSIGNED TO SERVICEABLE BEARINGS SUCH AS THE 209-074-428-1, -3, AND -5 IS CHANGED.
BY THIS MESSAGE FROM 3300 HOURS TO 1650 HOURS AS RECOMMENDED BY THE
PRIME MANUFACTURER.
3. PRIORITY CLASSIFICATION
   A. AIRCRAFT IN USE UPON RECEIPT OF THIS MESSAGE THE CONDITION
      STATUS OF THE SUBJECT AIRCRAFT WILL BE CHANGED TO A CIRCLE RED //X//.
      AIRCRAFT WILL BE INSPECTED WITHIN 15 WORKING DAYS OF RECEIPT OF THIS
      MESSAGE AND NO LATER THAN 15 JULY 1983. THE AIRCRAFT CAN BE CARRIED

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AS FULLY MISSION CAPABLE (FMC) UNDER AR 95-33 UNTIL THE
SAFETY-OF-FLIGHT ACTION HAS BEEN ACCOMPLISHED OR TIME LIMITATION
STATED ABOVE HAS BEEN EXCEEDED. PROVISIONS OF PMC REPORTING IN
ACCORDANCE WITH AR 95-33 ARE WAIVED RELATIVE TO THIS SAFETY-OF-FLIGHT
MESSAGE.
   B. AIRCRAFT IN DEPOT STOCK ROUTINE SERVICEABLE AIRCRAFT IN
      DEPOT STOCKS WILL BE INSPECTED AS SOON AS PRACTICAL. AIRCRAFT WILL
      NOT BE ISSUED UNTIL INSPECTED.
   C. AIRCRAFT UNDERGOING MAINTENANCE MAINTENANCE ACTIVITIES WILL
      PERFORM THE REQUIRED INSPECTION AND RECORDING.
BT
#2223
RCV MSG #  TIME RADAY  IMMEDIATE
09702  0514  175/63
3200NM 450TH 453FTS NAVY AERO COMM DPC DPM CONSEC LGT ACF ACD 051 WES AERIAL FLYysi CAP DOOC

19-5 ACE DET T/A FTW/CC ABG/CC NA XPR LGS SE WEA PA V/ID OXPM TGC FCS SG OT

SEE Sect I

ARMY

PAGE 02 RUCIFRA UNCLAS
RUEVDA/US ENV PROT AGY REGION II 26 FEDERAL PLAZA NY NY
RUCIFRA/NATIONAL OCEANIC AND ATMOSPHERIC ADMIN P.O. BOX 820197
MIAMI FL 33102 //NOAA-002 LCDR WM HARRIGAN//
RUCIFRA/5BH HEL FT RUCKER AL //ATZ-5BH-A//
RUCIFRA/CDU/MA/MADRID SPAIN //ARMY/NAVY SEC//
RUEVDA/CG/DEF MISS 850 3D AVE NYL NY 10022
RUCIFRA/CDU/NAVY FT RUCKER AL //ATZ-9-D//
RUEVDA/USDA FOREST SERVICE P.O. BOX 2417 WASH DC 20013
//COOPERATIVE FIRE PROTECTION//
RUCIFRA/CDU/JACKSONVILLE FL
RUCIFRA/CDU/HOMESTEAD AFB FL
ACCT DA-BCSVDO
BT
UNCLAS

D. AIRCRAFT IN TRANSIT
   (1) SURFACE AIR SHIPMENT INSPECT AT FINAL DESTINATION.
   (2) FERRY STATUS INSPECT AT FINAL DESTINATION.
   E. AIRCRAFT IN DEPOT MAINTENANCE THE DEPOT WILL BE RESPONSIBLE
      FOR THE INSPECTION AND RECORDING.
   F. AIRCRAFT IN CONTRACT MAINTENANCE THE CONTRACTOR WILL BE

PAGE 03 RUCIFRA UNCLAS
A Code number or a code number of 12-XXX or less (12, 11, 10 etc.) must be placed in a red /X/ condition until the servo cylinder assembly can be replaced. These servo housing will have exceeded the maximum allowable time since new.

Any aircraft that has a servo housing with a forging code number of 13-XXX or 14-XXX will have a TSN of 3150 hours assigned. The assembly must be replaced at the next phase. These servo will not be exchanged onto another aircraft nor flown beyond the phase.

The aircraft component hour time since new (TSN) assignment will be based solely on the servo housing forging code number. The table below matches the forging code numbers with the TSN required for the DA Forms 2408-16 and 2410.

<table>
<thead>
<tr>
<th>Forging Code Number</th>
<th>TSN</th>
<th>Forging Code Number</th>
<th>TSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO FORGING CODE</td>
<td>3300</td>
<td>26-XXX</td>
<td>1524</td>
</tr>
</tbody>
</table>

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CODE NUMBER OR A CODE NUMBER OF 12-XXX OR LESS (12, 11, 10 ETC.) MUST BE PLACED IN A RED /X/ CONDITION UNTIL THE SERVO CYLINDER ASSEMBLY CAN BE REPLACED. THESE SERVO HOUSING WILL HAVE EXCEEDED THE MAXIMUM ALLOWABLE TIME SINCE NEW.

(8) ANY AIRCRAFT THAT HAS A SERVO HOUSING WITH A FORGING CODE NUMBER OF 13-XXX OR 14-XXX WILL HAVE A TSN OF 3150 HOURS ASSIGNED. THE ASSEMBLY MUST BE REPLACED AT THE NEXT PHASE. THESE SERVOS WILL NOT BE EXCHANGED ONTO ANOTHER AIRCRAFT NOR FLOWN BEYOND THE PHASE.

(9) THE AIRCRAFT COMPONENT HOUR TIME SINCE NEW (TSN) ASSIGNMENT WILL BE BASED SOLELY ON THE SERVO HOUSING FORGING CODE NUMBER. THE TABLE BELOW MATCHES THE FORGING CODE NUMBERS WITH THE TSN REQUIRED FOR THE DA FORMS 240A-16 AND 2410.

<table>
<thead>
<tr>
<th>FORGING CODE NUMBER</th>
<th>TSN</th>
<th>FORGING CODE NUMBER</th>
<th>TSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>1524</td>
<td>26-XXX</td>
<td>1524</td>
</tr>
<tr>
<td>NO FORGING CODE</td>
<td>3300</td>
<td>NO FORGING CODE</td>
<td>3300</td>
</tr>
</tbody>
</table>

#2224
ON THE AIRCRAFTS CURRENT DA FORM 2408-14 (TIME CHANGE
FORM) ADD THE CYLINDER ACTUATOR WITH THE TSN PER THE TABLE ABOVE.
NOTE: THERE WILL BE THREE PER AIRCRAFT.

IN ACCORDANCE WITH TM 38-750 WRITE NEW DA FORM 2410S
ON THE CYLINDER ACTUATOR (THREE PER AIRCRAFT) REGARDLESS OF THE TSN.
IN THE //REMARKS// SECTION OF THIS FORM, ENTER THE FORGING CODE
NUMBER FOR EACH CYLINDER ACTUATOR.

ANY SERVO HOUSINGS THAT ARE IN THE SUPPLY SYSTEM OR AT

PAGE 04 RUCIFRA7111 UNCLAS
DEPOT THAT REQUIRE REWORK, OVERHAUL, OR REPAIR WITH MORE THAN 2850
HOURS TIME SINCE NEW WILL NOT BE REPAIRED OR ISSUED. DA FORM 2410S
WILL BE REQUIRED FOR ALL CYLINDER ACTUATORS REGARDLESS OF ITS STATUS.

B. BEARING HOUSINGS, EXTENSION TUBES AND ROD END BEARINGS.

1. EXTENSION TUBES

A) INSPECT YOUR AIRCRAFTS DA FORM 2408-14 (TIME CHANGE
FORM) FOR THE LINE ENTRIES RELATIVE TO THE SERVO EXTENSION TUBES.
EACH AIRCRAFT HAS THREE DIFFERENT EXTENSION TUBES; ONE FOR THE
COLLECTIVE, ONE FOR THE LATERAL, AND ONE FOR THE FORE AND AFT. IF
YOUR AIRCRAFT RECORD DOES NOT HAVE THREE ENTRIES, THE MISSING DATA
MUST BE ESTABLISHED, I.E., PART NUMBER, HSN, TSN, FINITE LIFE, AND
SERIAL NUMBER.

B) ASSIGN A SERIAL NUMBER TO EACH EXTENSION TUBE THAT DOES
NOT HAVE ONE IN ACCORDANCE WITH TM 38-1500-325-25 (3 APR 81). THE
SERIAL NUMBER WILL BE ETCHED ONTO A SERIAL NUMBER TAG WITH A VIBRA
ETCHER AND WILL BE BONDED TO THE TUBE. THE TSN WILL BE 2850 HOURS
FOR ANY TUBE NOT PREVIOUSLY TRACKED. THE PART NUMBERS AND HSNs WILL
BE EITHER

209-074-124-1 4710-00-063-8431 OR
209-074-124-3 4710-00-063-8432 OR

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209-074-124-5 1650-00-877-6372
DEPENDING ON ITS LOCATION IN THE AIRCRAFT.

C) IN ACCORDANCE WITH TM 38-750, ENTER ONTO THE DA FORM
2408-14 (TIME CHANGE FORM) THE MISSING ENTRIES AND ALSO ENTER
INFORMATION ON NEW DA FORM 2410.

D) IN ACCORDANCE WITH TM 38-750, CONVERT YOUR ROD END
RINGs LOCAL HISTORY TO A DA FORM 2410.

2. ROD END BEARINGS

A) INSPECT YOUR AIRCRAFTS DA FORM 2408-14 (TIME CHANGE
FORM) FOR THE LINE ENTRIES RELATIVE TO THE SERVO ROD END BEARINGS.
EACH AIRCRAFT SHOULD HAVE THREE ENTRIES; ONE EACH FOR THE COLLECTIVE,
LATERAL, AND FORE AND AFT SERVO SYSTEM. IF YOUR AIRCRAFT RECORD DOES
NOT HAVE THREE ENTRIES, THE MISSING DATA MUST BE ESTABLISHED. I.E.,
P/H, HSN, TSN, FINITE LIFE, AND S/N.

(B) ASSIGN A S/N TO EACH ROD END BEARING THAT DOES NOT HAVE ONE IN ACCORDANCE WITH TM 55-1500-328-25 (3 APR 81). THE SERIAL NUMBER WILL BE ETCHED ON THE TOP OUTER SURFACE OF THE BEARING HOUSING USING A VIBRA ETCHER. THE TSN WILL BE 1500 HOURS FOR ANY ROD END BEARING NOT PREVIOUSLY TRACKED. THE FINITE LIFE WILL BE 1650 HOURS. THE APPROPRIATE P/H'S AND NSNS WILL BE EITHER

204-076-428-1
204-076-428-3

3120-00-903-4482 OR
3120-00-168-1473

(C) IN ACCORDANCE WITH TM 38-750, ENTER ONTO THE DA FORM 2408-16 (TIME CHANGE FORM) THE MISSING ENTRIES AND ALSO WRITE A NEW DA FORM 2410.

BT
#2225
RCY MSG # TIME RADAY "IMMEDIATE"
09709 052A 175/83
3200HE 490TH 453FTS NAVAIR COMM DPC DPN CONSEC LNG ACF ACD 051 NAVY CAP 000
0-0 ACF DET T/A FTW/CC ABG/CC MA XPR LGS SE WEA PA W/O XPR LGC FCS SG IT

OCTUZEX RULHEAO222L 1750452-WUWU--RWMTTA.
ZNR WUWU
E 3404402 JUN 83 ZEX
EM ArrHC OAC EA AFG MO //HGB-AYH-L//
TO AIG 7401
ACCT DA-BHCSVD
0 2322002 JUN 83
PM CORTSARCOM STL MO //CRS-MEA//
TO AIG 8881
AIG 7515
RUEKCY/CHGo TKYO JAPAN
RUCLRFH/AMERICAN ELECTRONICS LABORATORY PO BOX 491
FARMINGDALE NY 07727
RUCLRFH/US ENV PRG AGY PO BOX 15027 LAS VEGAS NV
RUEVDAE/US ENV PRG AGY REGION II 20 FEDERAL PLAZA NY NY
RUEVHFH/NASA KENNEDY SPACE CENTER CAPE CANAVERAL FL
//SI-SAT-23//
RUEHN/AILTAIPEI TAIWAN
RUEHC/AIL WASH DC
RUEHSH/COMUSHILCO SAN SALVADOR EL SALVADOR //SCES-AF//
RUCOCDA/REOSDE ARS AL //ARSMI-ST//
RUEATRS/US CUSTOMS SERVICE DEPT OF TREASURY
TIME AIG 9004
FL RFRA/KAMAN AEROPLANE CORP OLD WINDSOR RD BLOOMFIELD CT
04002
RUGMAD/USDAO TEL AVIV ISRAEL

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RUEVDAE/US ENV PRG AGY REGION II 20 FEDERAL PLAZA NY NY
RUCLRFH/NATIONAL OCEANIC AND ATMOSPHERIC ADMIN PO BOX 020197
MIAMI FL 33102 //NOAA-042 LCDR WM HARRIGAN//
RUCOLEA/NSM ATK HEL FT RUCKER AL //ATZG-7M-A//
RUFLEA/CJSNG MAG MADRID SPAIN //ARMY/NAVY SEC//
RUCALRFH/GOI DEF MISS BSO 30 3D AVE YMY NY 10022
RUCOLEA/CORVAVMH FT RUCKER AL //ATZG-3T//
RUEVDE/USDA FOREST SERVICE PO BOX 2417 WASH DC 20013
//COOPERATIVE FIRE PROTECTION//
RUCJJK/CDR JACKSONVILLE FL
RUCOLEA/CDR HOMESTEAD AFB FL
ACCT DA-BHCSVD
ST
UNCLAS
SECTION 03 OF 06
(D) INSPECT YOUR AIRCRAFT WITH DA FORM 2408-14 (TIME CHANGE FORM) FOR EXISTING LINE ENTRIES FOR ROD END BEARINGS WITH THE FOLLOWING P/NS
(E) REVISE THE FLIGHT LIFE OF THE 428-3 AND -428-5 ROD END BEARINGS FROM 3300 HOURS TO 1450 HOURS ON THE DA FORM 2408-14 TIME

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