UNCLASSIFIED

SECTION 1 OF 2

NOTE: THIS IS A SAFETY-OF-FLIGHT MESSAGE AND HAS NOT, REPEAT,
HAS NOT, BEEN TRANSMITTED TO UNITS SUBORDINATE TO ADDRESSES.
ADDRESSES SHOULD IMMEDIATELY RETRANSMIT THIS MESSAGE TO ALL
SUBORDINATE UNITS, ACTIVITIES OR ELEMENTS AFFECTED OR CONCERNED.
RETRANSMITTAL SHALL REFERENCE THIS MESSAGE.

SUBJECT: SAFETY-OF-FLIGHT MESSAGE (ONE TIME INSPECTION) FOR:
UH-1H/SD/SV/SH, AH-1G/GY/SV S(MD) AND TH-110 HELICOPTERS.

DEFECTIVE TAIL ROTOR SERVO CYLINDER ASSEMBLY
(UH-1H-77-15 / AH-1G-77-17)

1. SUMMARY OF PROBLEM DETERMINATION HAS BEEN MADE THAT A
NUMBER OF TAIL ROTOR SERVO CYLINDER ASSEMBLIES WERE MANUFACTURED
TO TOO CLOSE A TOLERANCE BETWEEN THE SHAFT AND BODY.

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THIS CONDITION MAKES THE ASSEMBLY VULNERABLE TO BINDING WHICH
INHIBITS DIRECTIONAL CONTROL OF THE HELICOPTER. IN 9 DOCUMENTED
PREVIOUSLY KNOWN INSTANCES, THE PILOT HAS BEEN ABLE TO BREAK THE
BINDING/JAMMING BY EXERTING FORCE ON PEDALS. THE ASSEMBLIES HAVE
BEEN IDENTIFIED BY SERIAL NUMBER. THE PURPOSE OF THIS MESSAGE IS
TO LOCATE THE DEFECTIVE PARTS, REMOVE THEM FROM SERVICE, AND HAVE
THEM SHIPPED TO A FACILITY WHERE REPAIRS CAN BE MADE.

2. PRIORITY CLASSIFICATION

A. EQUIPMENT IN USE CLN URGENT, WITH LIMITATIONS; EQUIPMENT
IN USE WILL BE INSPECTED AS SOON AS POSSIBLE BUT NOT LATER THAN
FIVE (5) FLIGHT HOURS OR FIVE (5) DAYS, WHICHEVER OCCURS FIRST;
UPON RECEIPT OF THIS MESSAGE, THE AIRCRAFT STATUS WILL BE CHANGED
TO A RED DASH. FAILURE TO ACCOMPLISH THIS INSPECTION WITHIN THE
HOURS/DAYS SPECIFIED WILL CAUSE AIRCRAFT CONDITION STATUS SYMBOL
TO BE CHANGED TO RED "X".

B. EQUIPMENT IN FIELD AND DEPOT STOCK CLN URGENT; WITH
LIMITATIONS, SERVICABLE AND UNSERVICEABLE TAIL ROTOR SERVO
CYLINDER ASSEMBLIES IN FIELD AND DEPOT STOCKS WILL BE DECLARED
INOPERABLE AND WILL NOT BE ISSUED PRIOR TO INSPECTION/APPLICATION.
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3. END ITEM TO BE INSPECTED CLN A11 UH-1B/C/D/H/M, AH-1G/2/5/8 (MOD)
   AND TH-10 HELICOPTERS

4. COMPONENTS TO BE INSPECTED CLN NA

5. PARTS TO BE INSPECTED CLN TAIL ROTOR SERVO CYLINDER ASSEMBLIES

   AIRCRAFT APPLICATION   NSN         PART NO;
   UH-1B/C/D/H/M         1659-00-912-4122    244-076-253-0
   UH-1C/D/H/M           1659-00-944-8179    1663-23
   UH-1D/H/M             1659-00-914-2258    244-076-253-11
   UH-1H/M               1659-00-944-8169    1663-23
   AH-1G/2/5/8 (MOD) AND TH-10 1659-00-914-2258    244-076-253-11
   AH-1G/2/5/8 (MOD) AND TH-10 1659-00-944-8169    1663-23
   AH-1G/2/5/8 (MOD) AND TH-10 NONE         244-076-253-15
   AH-1G/2/5/8 (MOD) AND TH-10 NONE         1663-23

6. APPLICATION CLN
   A. CATEGORY OF MAINTENANCE
      (1) OPERATIONAL AIRCRAFT CLN UNIT MAINTENANCE
      (2) AIRCRAFT UNDERGOING MAINTENANCE CLN ORGANIZATION PERFORMING
      MAINTENANCE
      (3) AIRCRAFT IN TRANSIT CLN
      (4) IN SURFACE SHIPMENT CLN MAINTENANCE ACTIVITY AT FINAL

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DESTINATION
(1) IN FERRY STATUS CLN TO BE INSPECTED AT NEXT DESTINATION

B. APPLIED BY CLN AIRCRAFT MECHANIC 67B, OR QUALIFIED AIRCRAFT
   CREW MEMBER

C. TIME REQUIRED CLN
   (1) APPROXIMATELY 2-1/2 MAN-HOURS AND A MINIMUM CREW OF ONE
   MAN ARE REQUIRED TO ACCOMPLISH THIS INSPECTION;
   (2) DOWNTIME FOR THIS END ITEM IS 2-1/2 HOURS;

7. SUPPLY KITS/PARTS AND DISPOSITION;
   A. THE FOLLOWING PARTS MAY BE REQUIRED CLN
       SERVO CYLINDER ASSEMBLY
       NSN 1659-00-912-4122         P/N 244-076-253-9
       NSN 1659-00-914-2258         P/N 244-076-253-11

8. SERVO CYLINDER ASSEMBLIES REMOVED FROM SERVICE OR SUPPLY
   IN ACCORDANCE WITH THIS MESSAGE SHALL BE IMMEDIATELY FORWARDED TO
   TRANSPORTATION OFFICER, RED RIVER ARMY DEPOT, TÊXARKANA, TX 75501,
   AND MARK FOR ACCOUNT 5-3723, CONDITION D; ITEMS SHALL BE TAGGED
   UNSERVICEABLE AND MARKED FOR EXHIBIT PER SOP TB 55-1500-200-20-17.
   TIME ACCRUED ON THE DEFECTIVE ITEM SHALL BE NOTED IF AVAILABLE;
   B. SPECIAL TOOLS, JIGS AND FIXTURES REQUIRED CLN NA

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9. INSPECTION PROCEDURE CLN
I. INSPECT ALL INSTALLED AND IN-STOCK TAIL ROTOR SERVO CYLINDERS
   A. SERIAL NUMBERS, PART NUMBERS AND MANUFACTURER'S CODE;
   B. SERVO CYLINDERS WHICH ARE CONSIDERED DEFECTIVE AND ARE TO
   BE REMOVED FROM SERVICE ARE THOSE WHICH WERE MANUFACTURED BY FORTNER
   ACCESSORY SERVICE CORPORATION, MANUFACTURER'S CODE 53563, AND ARE
   INCLUDED IN THE INDICATED LIST OF SERIAL NUMBERS;
   BHT PART NO. 204-076-053-5
   FORTNER PART NO. 1660-17
   S/N 005 THROUGH 036
   BHT PART NO. 204-076-053-11
   FORTNER PART NO. 1660-23
   S/N 005 THROUGH 023
   BHT PART NO. 204-076-053-15
   FORTNER PART NO. 1660-25
   S/N 001 THROUGH 054

II. INSTALLED SERVOS AND SERVOS WHICH ARE NO LONGER IN THEIR
ORIGINAL PACKAGE CAN BE IDENTIFIED BY INSPECTION OF THE DATA PLATE
ON THE CYLINDER BARREL; THOSE SERVOS INCLUDED IN THE ABOVE LIST
OF SERIAL NUMBERS ARE TO BE REMOVED FROM SERVICE/SUPPLY IN
ST #2904

T 299 11 78
PRIORITY

A. ANY PACKAGED SERVO IN STOCK WHICH CANNOT BE POSITIVELY IDENTIFIED BY MARKINGS ON THE PACKAGE SHALL BE OPENED FOR INSPECTION AND IF NOT ON THE LIST OF DEFECTIVE SERVOS THE PACKAGE WILL BE RESEALED AND CLEARLY MARKED AS HAVING BEEN INSPECTED ACCORDING TO THIS TB. IF THE SERVO IS FOUND TO BE INCLUDED ON THE LIST, IT SHALL BE REMOVED FROM THE SUPPLY.

B. IN ACCORDANCE WITH PARAGRAPH 7B ABOVE;

C. RECORD AND REPORT ACCOMPLISHMENT OF THIS INSPECTION IN THE FOLLOWING FORMS ARE APPLICABLE - DA FORM 2467, MAINTENANCE REQUEST;
DA FORM 2468-13, AIRCRAFT INSPECTION AND MAINTENANCE RECORD;
DA FORM 2468-15, AIRCRAFT HISTORICAL RECORD;
D. GROUNDING AND SAFETY OF FLIGHT MESSAGE FOLLOW-UP REPORT.

E. ACKNOWLEDGE RECEIPT OF THIS MESSAGE OR NOT LATER THAN FIVE DAYS AFTER DATE OF THIS MESSAGE, WILL FORWARD A MSG REPORT OF ACTIONS ACCOMPLISHED TO COMMANDER, TSARCOM, ATTN CLN DRSTS-MEU (2), PER AR 95-18. THE REPORT WILL CITE THE TB, THE AIRCRAFT MISSION DESIGN AND SERIES, AND SERIAL NUMBERS OF ALL LISTED SERVO CYLINDERS WHICH ARE FOUND INSTALLED OR IN SUPPLY AND WHICH ARE BEING RETURNED IN ACCORDANCE WITH PARAGRAPH 7B ABOVE. IF ALL REQUIRED ACTIONS ARE NOT COMPLETED, THE REPORT WILL ALSO CONTAIN THE DATE BY WHICH IT IS ESTIMATED THEY WILL BE COMPLETED. ROUTING SYMBOL AS CONTAINED IN AR 95-18.

I. IF ADDITIONAL INFORMATION OR CLARIFICATION OF THIS MESSAGE IS