

24 MAR 79 11 02z

*C/W 29 MAR 79*

RPTUZYUW RULN9A00009 0000444-UUUU--RUKMDTA;  
ZNR UUUUU  
R 240440Z MAR 79  
FM MGR ARNG DAC EDGWOOD MD//NSG-AVN-L//  
TO AIG 7401  
P 232240Z MAR 79  
FM CDRUSATSARQ00 STL MD //DRSTB-MEU//  
TO AIG 8000  
AIG 9000  
INFO RUQLEUA/QDR USAAVNO FT RUCKER AL //ATZG-QI//  
BT

*ARMY*

*UH-1-79-4  
swashplate  
trunnion  
failure*

UNCLAS SECTION 1 OF 11  
NOTE CLN THIS IS A SAFETY OF FLIGHT MESSAGE AND 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.

SUBJ CLN SAFETY OF FLIGHT ONE TIME INSPECTION OF UH-1B/D/H AND EH-1H  
SERIES HELICOPTER SWASHPLATE OUTER RING, TB 92-1520-249-20-1  
(UH-1-79-4)

SUMMARY OF PROBLEM CLN A RECENT FATAL ACCIDENT OCCURRED DUE TO SEPA-  
RATION OF THE TRUNNION ASSEMBLY FROM THE SWASHPLATE OUTER RING, PRE-  
LIMINARY ANALYSIS INDICATES THAT THE FAILURE WAS DUE TO AN UNUSUAL  
OVERSIZE FIT BETWEEN THE TRUNNION AND THE OUTER RING HOUSING BORE  
WHICH RESULTED FROM A PREVIOUS REWORK OR WHICH MAY HAVE BEEN CAUSED

PAGE 2 RUCIFRA7045 UNCLAS

BY EXCESSIVE SPREADING OF THE HOUSING EARS AT SOME TIME DURING THE  
SWASHPLATE MAINTENANCE HISTORY.

2. PRIORITY CLASSIFICATION CLN (URGENT WITH LIMITATIONS) CLN

A. UPON RECEIPT OF THIS MESSAGE, THE STATUS OF AIRCRAFT WILL BE  
CHANGED TO A CIRCLED RED "X", FAILURE TO ACCOMPLISH THE INSPECTION  
WITHIN THE HOURS/DAYS STIPULATED WILL CAUSE CONDITION STATUS SYMBOL  
TO BE CHANGED TO A RED "X", EQUIPMENT IN USE WILL BE INSPECTED AS  
SOON AS POSSIBLE, BUT NOT LATER THAN 10 FLYING HOURS OR 10 DAYS,  
WHICHEVER OCCURS FIRST, AFTER RECEIPT OF THIS MESSAGE,  
NOTE! SEE PARAGRAPH 7 AR 95-10 FOR NONCOMPLIANCE AUTHORITY OF UNIT  
AND MAJOR COMMANDS.

B. EQUIPMENT IN FIELD OR DEPOT STOCK CLN SERVICEABLE SWASHPLATE  
ASSEMBLIES SHALL BE INSPECTED PRIOR TO ISSUE.

3. END ITEM TO BE INSPECTED: ALL UH-1B/D/H AND EH-1H SERIES  
HELICOPTERS.

4. ASSEMBLIES OR COMPONENTS TO BE INSPECTED: SWASHPLATE AND SUPPORT  
ASSEMBLIES, P/N 204-011-400-11, NSN 1615-00-200-1002, AND ALL SUBSTI-

1. ES.

5. PARTS TO BE INSPECTED: OUTER RING ASSEMBLY, P/N 204-011-400-1,  
NSN 1615-00-474-9151.

*34*

PAGE 3 RUCIFRA7849 UNCLAS

1. APPLICATION CLN

A. CATEGORY OF MAINTENANCE,

(1) OPERATIONAL AIRCRAFT CLN AVIATION UNIT MAINTENANCE (AVUM),

(2) AIRCRAFT UNDERGOING MAINTENANCE CLN ORGANIZATION PERFORMING MAINTENANCE,

(3) AIRCRAFT IN TRANSIT CLN

(A) IN SURFACE SHIPMENT CLN MAINTENANCE ACTIVITY AT FINAL DESTINATION.

(B) IN FERRY STATUS CLN TO BE INSPECTED AT FIRST ENROUTE AVUM ACTIVITY.

B. APPLIED BY CLN/AIRCRAFT MECHANIC NOS 67N AND UM-1 TECH INSPECTOR OR 67N30.

C. TIME REQUIRED CLN

(1) APPROXIMATELY ONE MAN-HOUR AND A CREW OF TWO WILL BE REQUIRED TO PERFORM THIS INSPECTION.

(2) DOWNTIME FOR THE END ITEM IS 0.5 HOUR.

D. SUPPLY KITS AND PARTS CLN

A. KITS CLN NOT APPLICABLE.

B. THE FOLLOWING ITEMS MAY BE REQUIRED CLN

MAX QTY

PAGE 4 RUCIFRA7849 UNCLAS

DESCRIPTION

PART NUMBER

NSN

QTY PER ACFT

SHASHPLATE &

SUPPORT ASSY

204-011-400-11

1010-00-000-1002

AS REQUIRED

1

BOLT

NAS 1305-300

5306-00-002-6022

AS REQUIRED

2

DECEASED WASHER

MS 2000205

5310-00-009-7078

AS REQUIRED

2

WASHER

AN 960-516L

5310-00-107-0030

AS REQUIRED

WASHER

AN 960PD516

5310-00-107-0099

AS REQUIRED

WASHER

AN 960-516

5310-00-107-0020

AS REQUIRED

WASHER

AN 310-5

5310-00-107-1000

AS REQUIRED

WASHER

MS 24665-155

5315-00-204-1000

2

WASHER

MS 21042L4

5310-00-007-1475

AS REQUIRED

WASHER

AN 960PD416

5310-00-107-2054

AS REQUIRED

C. PARTS DISPOSITION CLN UNSERVICEABLE SHASHPLATE AND SUPPORT

ASSEMBLIES SHALL BE RETURNED TO DEPUT FOR OVERHAUL.

SPECIAL TOOLS AND TEST EQUIPMENT: NOT APPLICABLE.

INSPECTION PROCEDURE CLN

NOTE CLN ALL FIGURE AND INDEX NUMBERS REFER TO IM 55-1020-210-23P-2.

A. MAKE HELICOPTER SAFE FOR GROUND MAINTENANCE.

B. DISCONNECT ONE DRIVE LINK FROM SHASHPLATE OUTER RING TRUNNION REMOVING OUTER PIN, NUT, WASHERS AND BOLT (FIGURE 161, ITEMS 15,

PAGE 5 RUCIFRA7849 UNCLAS

17, 17A, 17B, 17C, AND 18) AND ROTATE DRIVE LINK UP AWAY FROM

UNION.

C. REMOVE TWO NUTS AND WASHERS (FIGURE 177, ITEMS 2 AND 3).

LOCK BOLTS (FIGURE 177, ITEM 1) IN PLACE.  
NOTE: FOR PURPOSES OF CONSISTENCY, IT IS RECOMMENDED THAT STEP 9D  
BE PERFORMED BY THE SAME TECH INSPECTOR FOR ALL ASSIGNED AIRCRAFT.  
D. GRASP TRUNNION AND ATTEMPT TO MOVE IT VERTICALLY AND HORIZON-  
TALLY TO DETERMINE IF ANY PLAY EXISTS.

CAUTION

DO NOT USE ANY DEVICE OTHER THAN THE WORK AID DESCRIBED TO SPREAD  
THE HOUSING BARS DURING TRUNNION REMOVAL/INSTALLATION. DO NOT  
TIGHTEN WORK AID BOLT MORE THAN THREE FLATS (1/2 TURN) PAST A FINGER  
TIGHT CONDITION.

E. IF ANY PLAY IS EVIDENT, REMOVE TRUNNION IN ACCORDANCE WITH TM  
55-1520-219-20 OR TM 55-1520-218-20 AS APPLICABLE AND MEASURE HOUSING  
BORE. MAXIMUM BORE INSIDE DIAMETER IS 1.2518 INCHES. IF THIS DIMEN-  
SION IS EXCEEDED, SWASHPLATE AND SUPPORT ASSEMBLY SHALL BE REMOVED  
FROM THE AIRCRAFT AND DISPOSED OF IN ACCORDANCE WITH PARAGRAPH 7. IF  
HOUSING BORE IS WITHIN THE ABOVE TOLERANCE REPLACE TRUNNION AND RE-  
INSPECT FOR PLAY PER PARA D ABOVE. IF PLAY STILL EXISTS SWASHPLATE

PAGE 6 RUCIFRA7045 UNCLAS

AND SUPPORT ASSEMBLY SHALL BE REMOVED FROM THE AIRCRAFT AND DISPOSED  
OF IN ACCORDANCE WITH PARA 7.

F. IF NO PLAY IS DETECTABLE, SECURE TRUNNION TO OUTER RING AND  
DRIVE LINK TO TRUNNION USING PREVIOUSLY REMOVED HARDWARE IN ACCORD-  
ANCE WITH TM 55-1520-219-20 OR TM 55-1520-218-20 AS APPLICABLE.

G. REPEAT STEPS 9B THROUGH 9F FOR OPPOSITE TRUNNION.

10. WEIGHT AND BALANCE: NOT APPLICABLE.

11. RECORDING AND REPORTING INSTRUCTIONS CLN

A. RECORD AND REPORT ACCOMPLISHMENT OF THIS INSPECTION IN ACCORD-  
ANCE WITH THE PROCEDURES PRESCRIBED IN TM 38-750. THE FOLLOWING FORMS  
ARE APPLICABLE CLN DA FORM 2408-13, AIRCRAFT INSPECTION AND MAINTENANCE  
RECORD; DA FORM 2407, MAINTENANCE REQUEST; DA FORM 2408-5 (COMPON-  
ENT) EQUIPMENT MODIFICATION RECORD.

B. GROUNDING AND SAFETY OF FLIGHT MESSAGE FOLLOW-UP REPORT RCS-AMC  
213. ACTION ADDRESSEES UPON COMPLETION OF THE REQUIREMENT SET FORTH  
IN THIS MESSAGE OR NOT LATER THAN FIVE DAYS AFTER DATE OF ACCOM-  
PLISHMENT, WILL FORWARD A MESSAGE REPORT OF ACTIONS ACCOMPLISHED TO:  
COMMANDER, USATSARCOM, ATTN CLN DRSTS-MEM(1) PER AR 95-18. THE REPORT  
WILL CITE THE TB, THE AIRCRAFT MISSION DESIGN AND SERIES, AND SERIAL  
NUMBER OF THE AIRCRAFT. IF ALL REQUIRED ACTIONS ARE NOT COMPLETED,

BT

#0009

19