converting Hyd fluid clause
Gen 75-25

16 JUN 76 19 39

ARMY

R AUZEXH RULNNAC2721 1651700-UUUU--RUWMDTA;
ZNR UUUUU
R 161615Z JUN 76 ZEX
FM MQR ARNG-QAC EDGEWOOD MD//QAC-AVN-L//
TO AIG 7401
INFO RUEFHQA/CNGB WASHDC//NGB-ARL-A//
BT
UNCLAS
NOTE THIS MESSAGE HAS NOT, REPEAT, NOT BEEN TRANSMITTED TO UNITS
SUBORDINATE TO ADDRESSEES, ADDRESSEES ARE RESPONSIBLE
FOR DISSEMINATION OF MESSAGE TO ALL SUBORDINATE UNITS,
ACTIVITIES, ELEMENTS, OR FOREIGN USERS AFFECTED OR CONCERNED;
RETRANSMITTAL SHALL REFERENCE THIS MESSAGE.
SUBJ CLN TB55-1520-334-25 APPENDIX C, CONVERTING THE UH-1B,D,H
HELICOPTER HYDRAULIC SYSTEMS FROM MIL-H-5606 TO MIL-H-83282
HYDRAULIC FLUID (GEN-75-25)
A, REF AVSCOM MSG 2918422 JUL 75, GEN-75-24, AMSAV-FEG, SUBJECT
AS ABOVE;
1, REF A VOIDED THE INSTRUCTIONS CONTAINED IN APPENDIX C OF
TB-55-1520-334-25, THIS MSG ALSO PROMISED AN ALTERNATE PROCEDURE;
2, THE FOLLOWING INSUTRUCTIONS ARE THE ONLY PROCEDURES TO BE
FOLLOWED WHEN CONVERTING THE UH-1B/D/H HYDRAULIC SYSTEMS CLN

PAGE 2 RULNNAC2721 UNCLAS
C-1, GROUND SERVICING EQUIPMENT REQUIRED;
A, HYDRAULIC GROUND SERVICE UNIT, P/N NSN-1 OR D-5;
C-2, ITEMS TO BE MANUFACTURED,
A, DRAIN LINE FROM GROUND TEST COUPLING (RETURN) ON AIRCRAFT
C-3, REMOVAL OF COMPONENTS,
A, DISCONNECT ALL LINES TO THE HYDRAULIC PUMP AND ALLOW
LINES TO DRAIN, PLUG ALL LINES AFTER DRAINING, DISCONNECT AND
REMOVE THE HYDRAULIC PUMP FROM THE AIRCRAFT,
B, REMOVE THE FILTER ELEMENT FROM THE HYDRAULIC MODULE AND ALLOW
MODULE TO DRAIN, CLEAN AND REINSTALL THE FILTER BOWL WITHOUT THE
FILTER ELEMENT,
C-4, COMPONENT FLUSHING
A, TO FLUSH HYDRAULIC FLUID FROM THE HYDRAULIC PUMP, TURN THE
SPLINED SHAFT BY HAND WHILE PUMP IS INVERTED UNTIL FLUID NO LONGER
DRAINS FROM THE PRESSURE AND RETURN PORTS IN THE PUMP, FILL PUMP
THROUGH RETURN PORT WITH MIL-H-83282 AND REPEAT THE ABOVE PROCEDURE,
B, DISCONNECT ALL HYDRAULIC LINES TO THE MAIN ROTOR SERVOS
(THE SERVO CYLINDERS), DRAIN ALL LINES, DISCONNECT THE CONTROL
RODS FROM EACH CONTROL CYLINDER AT THE SWASHPLATE, ACTUATE THE
PISTON ON EACH CYLINDER FOUR FULL STROKES TO DISCHARGE RESIDUAL
FLUID FROM THE CYLINDER,

Fig 9

C, DISCONNECT ALL HYDRAULIC LINES TO THE TAIL ROTOR SERVO
AT THE SERVO CYLINDER, DRAIN ALL LINES, DISCONNECT THE TAIL
ROTOR SERVO CYLINDER AT THE CONTROL TUBE AND ACTIVATE THE PISTON
FOUR FULL STROKES TO DISCHARGE RESIDUAL FLUID FROM THE CYLINDER,
D, DISCONNECT LINES TO GROUND TEST COUPLINGS, (BOTH SIDES OF
THE FIREWALL) DRAIN LINES AND RECONNECT LINES TO THE COUPLINGS,
C-5, COMPONENT REPLACEMENT,
A1, INSTALL HYDRAULIC PUMP, FILL PUMP WITH MIL-H-83282 HYDRAULIC
FLUID THROUGH THE CASE DRAIN PORT AND RECONNECT ALL HYDRAULIC LINE
TO THE PUMP,
B1, INSTALL PRESSURE AND RETURN LINES TO THE MAIN ROTOR SERVO
CYLINDERS AND RECONNECT CONTROL RODS TO THE SWASH PLATES,
CAUTION
DO NOT INTERCONNECT HYDRAULIC HOSES FROM ONE CYLINDER TO THE OTHER
C,1 INSTALL PRESSURE AND RETURN LINES TO THE TAIL ROTOR SERVO,
CYLINDER AND RECONNECT THE CONTROL ROD TO THE PISTON,
NOTE
DO NOT REINSTALL FILTER ELEMENT AT THIS TIME,
C-6, FILLING, BLEEDING AND FUNCTIONAL TESTING,
REFER TO APPENDIX D OR E FOR SPECIFIC INSTRUCTIONS CONCERNING

NVERSION OF GROUND SERVICING UNITS,
A, DISCONNECT THE RETURN HOSE TO THE RESERVOIR AT THE GROUND
TEST COUPLING AND ALLOW TO DRAIN,
B, CONNECT THE DRAIN LINE TO GROUND TEST COUPLING (RETURN) AND
PLACE UNATTACHED END INTO A TWO GALLON OPEN CONTAINER OR A CONTAINER
MARKED TO INDICATE A TWO (2) GALLON LEVEL,
C, ATTACH PRESSURE HOSE FROM HYDRAULIC GROUND SERVICING UNIT
TO THE GROUND TEST COUPLING (PRESSURE) ON THE AIRCRAFT,
D, BRING HYDRAULIC PRESSURE TO 1000 PSI AND METER HYDRAULIC
FLUID INTO THE HYDRAULIC SYSTEM WHILE ACTUATING THE CYCLIC COLLECTIVE
AND ANTI-TORQUE CONTROLS,
NOTE
USE TWO MEN, IF NECESSARY, TO ACTUATE ALL CONTROLS SIMULTANEOUSLY,
E, OBSERVE FLOW OF HYDRAULIC FLUID FROM THE DRAIN LINE INTO
THE TWO GALLON CONTAINER UNTIL CONTAINER IS FULL,
F, RELIEVE PRESSURE AT GROUND TEST UNIT, REMOVE PRESSURE LINE
FROM AIRCRAFT AND SECURE HYDRAULIC SERVICE UNIT, CAP GROUND
TEST COUPLING (PRESSURE) ON AIRCRAFT,
G, REMOVE DRAIN LINE FROM GROUND TEST COUPLING (RETURN) AND
CONNECT THE RETURN LINE FROM THE RESERVOIR TO THE GROUND TEST

COUPLING,
H, INSTALL A CLEAN FILTER ELEMENT, TORQUE AND SAFETY WIRE
FILTER BOWL,
I, FILL RESERVOIR TO OVERFLOW USING MIL-H-83282 HYDRAULIC FLUID,
J, BLEED AND OPERATIONALLY CHECK THE HYDRAULIC SYSTEM I/A/W

TM55-1620-21D-20, CHAPTER 6, PAGE 6-8 PARA I., J AND K,
K, FLY AIRCRAFT FOR ONE HOUR, DRAIN RESERVOIR AND ALL HYDRAULIC LINES TO THE HYDRAULIC PUMP, HYDRAULIC RESERVOIR, MAIN ROTOR SERVO CYLINDERS AND ANTI-TORQUE CYLINDER, REPEAT STEPS I AND J.
1, ACCOMPLISH FINAL FILLING AND BLEEDING DURING ENGINE RUN AT FLIGHT IDLE.
3, THIS NEW PROCEDURE WILL BE PUBLISHED AS A CHANGE TO TB55-1500-334-25 ASAP.
BT
#2721.

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