FROM: CDRAMCOM REDSTONE ARSENAL AL//AMSAM-SF-A/
TO: AIG 8881
      AIG 9004
      AIG 7515
      AIG 7471
      AIG 12124
INFO:

NOTE

SUBJECT - AVIATION SAFETY ACTION MESSAGE, MAINTENANCE MANDATORY,
RCS CSGLD-1860(R1), AH-1, OH-58, AND UH-1. ONE TIME INSPECTION OF
MAGNETIC BRAKE. AH-1-01-ASAM-01 (TB 1-1520-243-20-28), OH-58-01-
ASAM-03 (TB 1-1520-228-20-85/TB 1-1520-248-20-57), AND UH-1-01-
ASAM-03 (TB 1-1520-243-20-28).

THIS MESSAGE IS ISSUED IAW AR 95-1, 1 SEP 97, CHAPTER 6. 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 THE MESSAGE. ACTION ADDRESSEES WILL
IMMEDIATELY VERIFY THIS TRANSMISSION TO CSR, AMCOM, ATTN: AMSAM-SF-A
(SOF COMPLIANCE OFFICER).

1. PRIORITY CLASSIFICATION -

NOTE

IAW AR 95-1, PARAGRAPH 6-14A, MACOM COMMANDERS MAY AUTHORIZE
TEMPORARY EXCEPTION FROM MESSAGE REQUIREMENTS. EXCEPTON MAY ONLY
OCCUR WHEN COMBAT OPERATIONS OR MATTER OF LIFE OR DEATH IN CIVIL
DISASTERS OR OTHER EMERGENCIES ARE SO URGENT THAT THEY OVERRIDE THE
CONSEQUENCES OF CONTINUED AIRCRAFT OPERATION.

A. AIRCRAFT IN USE - UPON RECEIPT OF THIS MESSAGE, MAKE THE
FOLLOWING ENTRY ON THE DA FORM 2408-13-1. ENTER A RED HORIZONTAL
DASH //-/ STATUS SYMBOL WITH THE FOLLOWING STATEMENT [AS
APPROPRIATE]: "INSPECT MAGNETIC BRAKE (P/H 204-001-376-003) IAW
AH-1-01-ASAM-01 (TB 1-1520-243-20-28), OH-58-01-ASAM-03 (TB 1-
1520-228-20-85/TB 1-1520-248-20-57), OR UH-1-01-ASAM-03 (TB 1-
1520-243-20-28) NLT 31 JULY 2001." CLEAR THE RED HORIZONTAL DASH
//-/ ENTRY WHEN THE PROCEDURES IAW PARA 8 AND 9 ARE COMPLETED. THE
AFFECTED AIRCRAFT SHALL BE INSPECTED AS SOON AS PRACTICAL BUT NOT
LATERN THAN 31 JULY 2001. COMMANDERS WHO ARE UNABLE TO COMPLY WITH
THE REQUIREMENTS OF THIS MESSAGE WITHIN THE TIME FRAME SPECIFIED WILL
UPGRADE THE AFFECTED AIRCRAFT STATUS SYMBOL TO A RED //X//.

B. AIRCRAFT IN MAINTENANCE -

   (1) AIRCRAFT IN AVM, AVIM OR DEPOT LEVEL MAINTENANCE - SAME
       AS PARA 1A.

   (2) AIRCRAFT AT CONTRACTOR FACILITY - BELL HELICOPTER
       TEXTRON, U.S. HELICOPTERS INC., ETC., WILL INSPECT 250 AIRCRAFT
       PRIOR TO THOSE AIRCRAFT DEPARTING FOR FERRY TO FINAL DESTINATION.

C. AIRCRAFT IN TRANSIT - SAME AS PARA 1A.

D. MAINTENANCE TRAINERS (CAT. A AND B) - SAME AS PARA 1A.

E. COMPONENT/PARTS IN STOCK AT ALL LEVELS (DEPOT AND OTHERS)
   INCLUDING WAR RESERVES - UPON RECEIPT OF THIS MESSAGE, DEPOT AND


1. WHOLESALE STOCK - N/A.
2. (2) RETAIL STOCK - UPON RECEIPT OF THIS MESSAGE, COMMANDERS AND FACILITY MANAGERS MAINTAINING RETAIL STOCK AT INSTALLATION LEVEL AND BELOW SHALL CONTACT THE SUPPORTED AVIATION UNIT TO PERFORM THE PROCEDURES REQUIRED IAW PARAGRAPHS 8 AND 9 ON SUSPECT MATERIEL. DISPOSE OF DISCREPANT MATERIEL IAW PARAGRAPH 10.

F. COMPONENTS/PARTS IN WORK (DEPOT LEVEL AND OTHERS) - DEPOT AND OTHER MAINTENANCE ACTIVITY COMMANDERS WILL ENSURE ITEMS LISTED IN PARAGRAPH 6 ARE NOT ISSUED UNTIL THEY ARE IN COMPLIANCE WITH THIS MESSAGE.

3. REPORTING COMPLIANCE SUSPENSE DATE - REPORT COMPLIANCE IAW PARA 14A(1) NLB 27 JUN 01.

4. SUMMARY OF PROBLEM -
A. BELL HELICOPTER TEXTRON HAS RECENTLY RECEIVED A REPORT THAT MAGNETIC BRAKE (P/N 204-001-376-003) SCREWS (P/N MS51959-3) HAD BACKED OUT WHICH LIMITED THE TRAVEL OF THE ARM ASSEMBLY AND CAUSED INCREASED RESISTANCE IN THE FLIGHT CONTROLS. IF THIS OCCURRED, THE RESISTANCE OF THE EFFECTED FLIGHT CONTROL COULD CAUSE THE PILOT TO OVER CONTROL THE AIRCRAFT IN CERTAIN FLIGHT CONDITIONS. INVESTIGATION REVEALED THE STOP SCREWS HAD BEEN INSTALLED WITHOUT THE PROPER ADHESIVE. THESE MAGNETIC BRAKES WERE MANUFACTURED BY MEMCO-TRIDHM, INC. UNDER THEIR P/N MP498-3. MAGNETIC BRAKES MANUFACTURED BY OTHER MANUFACTURERS ARE NOT AFFECTED BY THIS MESSAGE.
B. MANPOWER/DOWNTIME AND FUNDING IMPACTS - SEE PARA 12.
C. THE PURPOSE OF THIS MESSAGE IS TO -
(1) INSPECT ALL MAGNETIC BRAKES, P/N 204-001-376-003, TO DETERMINE THE MANUFACTURER.
(2) VERIFY THE INSTALLATION OF THE MAGNETIC BRAKE STOP SCREWS AND REPAIR IF REQUIRED.
5. END ITEMS TO BE INSPECTED - ALL AR-1, OH-58 AND UN-1 SERIES AIRCRAFT.

6. ASSEMBLY COMPONENTS TO BE INSPECTED -
   NOMENCLATURE
   PART NO. NSN
   BRAKE, MAGNETIC 204-001-376-003 ALL
   NSN SCREW MS51959-3 5305-00-727-8833

7. PARTS TO BE INSPECTED -
   NOMENCLATURE
   PART NO. NSN
   SCREW MS51959-3 5305-00-727-8833

8. INSPECTION PROCEDURES -
   A. GAIN ACCESS TO ALL MAGNETIC BRAKES IAW PROCEDURES CONTAINED IN THE APPROPRIATE TECHNICAL MANUAL.
   B. DETERMINE THE MANUFACTURER'S PART NUMBER LOCATED ON THE MAGNETIC BRAKE DATA PLATE.
   C. IF THE MANUFACTURER'S PART NUMBER IS MP498-3, PROCEED TO PARAGRAPH 9A.
   D. IF THE MANUFACTURER'S PART NUMBER IS NOT MP498-3, THE INSPECTION IS COMPLETE AND THE RED HORIZONTAL DASH //---/ ENTRY MAY BE CLEARED.

9. CONNECTION PROCEDURES -
   A. IF THE MANUFACTURER'S PART NUMBER IS MP498-3, REMOVE SUSPECT MAGNETIC BRAKES IAW PROCEDURES CONTAINED IN THE APPROPRIATE TECHNICAL MANUAL.
   B. APPLY 10 INCH POUNDS OF TORQUE COUNTERCLOCKWISE TO THE TWO


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MS51959-3 SCREWS LOCATED ON THE MAGNETIC BRAKE HOUSING NEXT TO THE MAGNETIC BRAKE ARM.

C. IF NO MOVEMENT IS DETECTED, REINSTALL THE MAGNETIC BRAKE IAW WITH PROCEDURES CONTAINED IN THE APPROPRIATE TECHNICAL MANUAL AND CLEAR THE RED HORIZONTAL DASH /// ENTRY.

(1) REMOVE THE TWO SCREWS AND STOP LIMITS FROM THE MAGNETIC BRAKE.

(2) REMOVE THE OLD SEALANT FROM THE SCREWS AND THE MAGNETIC BRAKE SCREW HOLES.

(3) APPLY LOCTITE (NSN 8030-00-081-2340) TO THE SCREW THREADS AND INSTALL THE TWO SCREWS WITH THE TWO STOP LIMITS HAND TIGHT.

(4) ADJUST THE STOP LIMITS IAW APPROPRIATE MAINTENANCE MANUAL TASK.

(5) TORQUE SCREWS TO 5 TO 10 INCH-POUNDS.

(6) REINSTALL MAGNETIC BRAKE IAW PROCEDURES CONTAINED IN THE APPROPRIATE MAINTENANCE MANUAL AND CLEAR THE RED HORIZONTAL DASH /// ENTRY.

10. SUPPLY/PARTS AND DISPOSITION -
A. PARTS REQUIRED - N/A.
B. REQUISITIONING INSTRUCTIONS - N/A
C. BULK AND CONSUMABLE MATERIALS -
   NOMENCLATURE PART NO. NSN
   SEALING COMPOUND (LOCTITE) 08931 8030-00-081-2340
D. DISPOSITION - N/A.
E. DISPOSITION OF HAZARDOUS MATERIAL - N/A.

11. SPECIAL TOOLS AND FIXTURES REQUIRED - N/A.

12. APPLICATION -
A. CATEGORY OF MAINTENANCE - AVUM. AIRCRAFT DOWNTIME WILL BE CHARGED TO AVUM MAINTENANCE. REPORT AIRCRAFT NON-MISSION CAPABLE MAINTENANCE (NMCM) WHILE UNDERGOING INSPECTION AND CORRECTION IAW THIS MESSAGE.

B. ESTIMATED TIME REQUIRED -
   (1) TIME TO COMPLETE INSPECTION -
      (A) TOTAL OF 0.5 MAN-HOURS USING 1 PERSON.
      (B) TOTAL OF 0.5 HOURS DOWNTIME FOR ONE END ITEM.
   (2) TIME FOR REPAIR/REPLACEMENT -
      (A) TOTAL OF 3.0 MAN-HOURS USING 1 PERSON.
      (B) TOTAL OF 3.0 HOURS DOWNTIME FOR ONE END ITEM.

C. ESTIMATED COST IMPACT TO THE FIELD -
   NOMENCLATURE PART NO./NSN QTY COST EA. TOTAL $
   SEALING COMPOUND 8030-00-081-2340 1 $1.79 $1.79
   TOTAL COST PER AIRCRAFT = $1.79

D. TB/MBOS TO BE APPLIED PRIOR TO OR CONCURRENTLY WITH THIS INSPECTION - N/A.

E. PUBLICATIONS WHICH REQUIRE CHANGE AS A RESULT OF THIS INSPECTION - N/A.

13. REFERENCES -
A. DA PAM 738-751, 15 MAR 99.
B. TM 1-1520-248-23.
C. TM 55-1520-210-23.
D. TM 55-1520-228-23.
F. TM 55-1520-236-23.

14. RECORDING AND REPORTING REQUIREMENTS -
A. AIRCRAFT -
   (1) REPORTING COMPLIANCE SUBSPECE - UPON ENTERING REQUIREMENTS OF THIS MESSAGE ON DA FORM 2408-13-1 FOR ALL EFFECTED AIRCRAFT, COMMANDERS WILL FORWARD A PRIORITY MESSAGE, DATAFAX OR E-MAIL TO CDR, ANCOM, ATTN: ANSM-SC-A (SOF COMPLIANCE OFFICER), REDSTONE ARSENAL, AL 35898-5000, IAW AR 95-1, NLT DATE SPECIFIED

http://www.redstone.army.mil/sof/sofmsg/uh1/0103.asm

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