

PCV MSG# 1 TIME 1914 258/84 IMMEDIATE
3200NW 940TH 453FTS NAVY AERO COMN DPC DPM CONSEC LGT ACF ACD OSI NCAX CAP DOOC
DOJ AUDITOR 4CAF ADC JA DOTH DOOS SSF SS
DAPD ACE DET T/A FTW/CC ABG/CC MA XPR LGS SE WEA PA W/DO XPMT LGC FCS SG OT

0CT02EXW RULNEA0223 2581800-UUUU-RUMWDTA.
ZNR UUUUU

141725Z SEP 84 ZEX
FM ARMG OAC APC MD //HGB-AVH-L//

TO AIG 7401

RULGXA/TAC VI CHRISTIANSTED ST CROIX VI
ACCT DA-BHCSVD

141430Z SEP 84

FM CDRVSCON STL MO //ANSV-M//

TO AIG 8881

RUEHRO/US EMBASSY ROME ITALY //ODC/ PASS TO HQ MFO//

RUCLRFA/US EVM PROT AGY PO BOX 15027 LAS VEGAS NV

RUCLRFA/US EVM PROT AGY REGION II 20 FEDERAL PLAZA NY NY

RUEOLNA/NATIONAL OCEANIC AND ATMOSPHERIC ADM ROCKVILLE MD

//A00A/A02 COL L. A. WEAVER//

RUCLBVH/NASA KENNEDY SPACE CENTER CAPE CANAVERAL FL

//SI-SAT-23//

RUEHIN/AIT TAIPEI

PUEHC/AIT WASH DC

RUEHSH/COMUSMILGP SAN SALVADOR EL SALVADOR //SCES-AF//

RUESBC/COMUSMILGP BOGOTA COLUMBIA //SCCD-AFDCH//

RUCDCDA/CDRNICOM REDSTONE ARS AL //DRSMI-ST//

RUEVHAD/US CUSTOMS SERVICE DEPT OF TREASURY WASH DC

A JAAA/CDR US REDCON MCDILL AFB FL //RCCS-AVH//

INFO AIG 9004

AIG 7515

RUCLEUA/CDRUSAAYMC FT RUCKER AL //ATZQ-DI//

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RUMAD/CUSDAO TEL AVIV ISRAEL

RUEHC/SECSTATE WASH DC //NEA/MFO//

RUEOPHA/DISC PHILADELPHIA PA //OEBB-JU//

RUEHBT/CHUSMAG BANGKOK THAILAND

RUFLAFA/CJUSMAG-MADRID MADRID SPAIN //ARMY/NAVY SEC//

RAYAAC/HQSCENG MELBOURNE AUSTRALIA //SOAIR ENG//

RAYMPP/DEFAIR CANBERRA AUSTRALIA //OPHEL-AF//

RUCLRFA/USDA FOREST SERVICE PO BOX 2417 WASH DC 20013

//COOPERATIVE FIRE PROTECTION//

RUCLEUA/CDRUSAAYMC FT RUCKER AL //ATZQ-DI-AQ/

FOR NOAA HELICOPTER GROUP//

ACCT DA-BHCSVD

BT

~~UNCLAS~~

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NOTE - THIS IS A SAFETY OF FLIGHT, MAINTENANCE MANDATORY DAILY
INSPECTION MESSAGE, RELEASED IN ACCORDANCE WITH AR 95-18, DATED 1 MAY
84 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. ACTION ADDRESSEES WILL IMMEDIATELY VERIFY THIS

Army

①

UH-1-8409
m/r p/2
clerks

30F-9

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RETRANSMISSION TO COMMANDER, AVSCOM, ATTH - ANSAY-MPSD.

SUBJECT - SAFETY OF FLIGHT MAINTENANCE MANDATORY DAILY INSPECTION ON ALL SERIES UH-1 HELICOPTERS (EXCEPT C/M MODELS) (UH-1-84-09) CONCERNING CLEVIS OF PITCH CHANGE LINK.

1. PURPOSE - TO INITIATE ADDITIONAL DAILY INSPECTION OF THE PITCH LINK CLEVIS, P/N 204-011-136-1, NSN 5340-00-839-3984.
2. SUMMARY - THE ORIGINAL CLEVIS FAILURE WAS CAUSED BY A CRACK IN THE BOTTOM OF THE DRILLED HOLE WHERE THE SECTIONAL AREA CHANGES (AREA OF TOP TWO THREADS). A SUBSEQUENT REPORT HAS BEEN RECEIVED STATING THAT CRACKS HAVE ALSO BEEN FOUND BETWEEN CLEVIS BOTTOM SURFACE AND THE SIDE FORK. METALURGICAL EXAMINATION OF THESE CRACKS DETERMINED THAT IT ORIGINATED BECAUSE OF THE ROUGH MACHINE SURFACE FINISH. THERE WAS NO EVIDENCE OF ANY GROWTH BY FATIGUE. FINAL SOLUTION TO THIS PROBLEM IS 100 PERCENT REPLACEMENT OF THIS CLEVIS WITH A REDESIGNED CLEVIS P/N 1516-UH-1-100-1. EXPEDITED PROCUREMENTS HAVE BEEN MADE WITH INITIAL PARTS AVAILABILITY IN MID SEPTEMBER WITH SUFFICIENT QUANTITIES TO REPLACE ALL INSTALLED CLEVISES BY APPROXIMATELY 1 FEB 85.
3. PRIORITY CLASSIFICATION - UPON RECEIPT OF THIS MESSAGE, AFFECTED HELICOPTERS WILL BE INSPECTED AT THE NEXT DAILY INSPECTION AND

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THEREAFTER UNTIL NEW TYPE REPLACEMENT CLEVISES ARE INSTALLED. CONDITION STATUS OF AIRCRAFT WILL BE UNCHANGED.

INSPECTION PROCEDURE -

A. USING A 10 OR GREATER POWER MAGNIFYING GLASS, INSPECT CLEVIS SIDE FORKS FOR CRACKS. PARTICULAR INTEREST AREA IS INSIDE, FLAT AND OUTSIDE OF FORK LEG RADIUS BOTH LEGS. (NOTE - ROUGH MACHINE MARKS ON INSIDE FORK LEG RADIUS ARE NOT CAUSE FOR REJECTION.)

B. IF ANY SUSPECT CRACKS ARE NOTED ON CLEVIS, AIRCRAFT WILL BE PUT ON RED //X// AND THE FOLLOWING MAGNETIC PARTICLE INSPECTION WILL BE PERFORMED.

C. MAGNETIC PARTICLE INSPECTION -

(1) EQUIPMENT -

- (A) LENS, MAGNIFIER 1 INCH FOCUS 10X, NSN 6650-00-878-8909, ONE EACH.
- (B) INDICATOR, FIELD, 6635-00-391-0058.
- (C) MAGNETIC INSPECTION UNIT, STATIONARY - WET METHOD AC CURRENT. P/N H620, NSN 6635-00-159-2431 OR EQUAL.
- (D) BLACK LIGHT, COMPONENT OF MAGNETIC PARTICLE UNIT

LISTED ABOVE.

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BASE - OR SEMITRAILER MOUNTED - C-3 FLAW
DETECTION, GENERAL SUPPORT SHOP SETS.
MSN 4920-00-321-9411 LIN T1A084 AND MSN
4920-00-621-2041 LIN T2246A RESPECTIVELY.

(2) TYPE OF MEDIA - WET FLUORESCENT -

(A) MAGNAFLUX/MAGNAFLO CARRIER, P/N 1-2120-40 FSCM 37676
OR EQUAL.

(B) MAGNAFLUX/MAGNAFLO CONCENTRATE INSPECTION POWDER,
FLUORESCENT, P/N 10A FSCM 37676 OR EQUAL.

(C) MAGNAFLUX/MAGNAFLO PREPARED FLUORESCENT BATH,
PRESSURIZED SPRAY CAN, P/N 14AM FSCM 37676 OR EQUAL, MAY BE USED IN
LIEU OF CARRIER AND CONCENTRATE LISTED ABOVE.

(3) TYPE OF CURRENT - AS PREFERRED.

(4) OPERATING TECHNIQUE/TYPE - WET CONTINUOUS, FLUORESCENT.

(5) THE FOLLOWING THREE INSPECTION PROCEDURES ARE REQUIRED
ON EACH AFFECTED CLEVIS -

INSPECTION PROCEDURE NO. 1 -

A. PART PREPARATION -

(1) DISASSEMBLY - REMOVE CLEVIS IAW APPLICABLE MAINTENANCE

MANUAL.

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(2) CLEANING - REMOVE PAINT, PRIMER AND SOIL PARTICLES IAW
TM 43-0104 AND APPLICABLE AIRCRAFT MAINTENANCE MANUALS.

B. PART INSPECTION -

(1) PLACE CLEVIS ON CENTRAL CONDUCTOR (COPPER OR ALUMINUM
ROD THROUGH BOLT HOLES) AS SHOWN IN TM 43-0103, DATED 15 MARCH 1984
WITH CHANGES THROUGH 4, DATED 30 SEP 81, CHAPTER 2, PAGE 2-131,
FIGURE 9-21.

(2) PLACE ENDS OF CENTRAL CONDUCTOR BETWEEN HEAD AND TAIL
STOCKS AS SHOWN IN FIGURE 9-21 AND LOCK IN PLACE.

(3) MAGNETIZE CLEVIS USING 1000-1500 AMPS AC CURRENT, WET
CONTINUOUS METHOD.

(4) REMOVE CENTRAL CONDUCTOR FROM CLEVIS AND INSPECT BOLT
HOLE AREA WITH BLACK LIGHT AND 5X OR GREATER MAGNIFIER IN SUBDUED
WHITE LIGHT PER CHAPTER 2 OF TM 43-0103.

(5) NO CRACKS ALLOWED.

(6) DEMAGNETIZE CLEVIS IAW TM 43-0103, CHAPTER 2, SECTION

VI.

INSPECTION PROCEDURE NO. 2 -

A. PART PREPARATION - SAME AS IN INSPECTION PROCEDURE NO. 1
ABOVE.

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B. PART INSPECTION -

(1) INSTALL SMALL PARTS ADAPTERS ON HEAD STOCK AND TAIL
STOCK OF MAGNETIC PARTICLE INSPECTION UNIT.

(2) PLACE CLEVIS BETWEEN HEAD STOCK AND TAIL STOCK ADAPTERS
WITH SIDES OF CLEVIS CONTACTING ADAPTER FACE PLATES. BOLT HOLES IN
LEGS OF THE CLEVIS WILL BE 90 DEGREES TO CENTER LINE BETWEEN HEAD
AND TAIL STOCKS.

(3) MAGNETIZE CLEVIS, USING 1000-1500 AMPS AC CURRENT, WET
CONTINUOUS METHOD.

(4) INSPECT FOR CRACKS ALONG BASE **INSIDE RADIUS** OF

CLEVIS "LEGS" USING BLACK LIGHT AND 5X MAGNIFIER OR GREATER.

(5) NO CRACKS ALLOWED.

INSPECTION PROCEDURE NO. 3 -

A. PART PREPARATION - SAME AS PROCEDURE NO. 1 ABOVE.

B. PART INSPECTION -

(1) PLACE CLEVIS NEAR (APPROXIMATELY ONE INCH), INSIDE WALL OF COIL WITH SHANK OF CLEVIS PARALLEL WITH COIL AXIS (CENTER LINE). REFERENCE TM 43-0103, CHAPTER 2, PAGE 2-126, FIGURE 9-16.

(2) MAGNETIZE CLEVIS, USING 1000-1500 AMPS (METER READING) AC CURRENT, WET CONTINUOUS METHOD.

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(3) INSPECT SHANK AND THREADED AREA OF CLEVIS FOR CRACKS USING BLACK LIGHT AND 5X MAGNIFIER OR GREATER.

(4) NO CRACKS ALLOWED.

(5) DEMAGNETIZE CLEVIS IAW TM 43-0103, CHAPTER 2, SECTION

VI.

5. IF ANY EVIDENCE OF CRACKS ARE CONFIRMED, CLEVIS SHALL IMMEDIATELY BE REMOVED FROM SERVICE.

NOTE

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CCAD, SDSCC-OMT, ATTN - LEROY PATTON, (AUTOVON 861-4511), CORPUS
CHRISTIANITY, TEXAS 78419, FOR REINSPECTION/ANALYSIS.

7. MARKING INSTRUCTIONS - CLEVISES THAT PASS THE INSPECTION SHALL BE
VIBRO ETCHED WITH A //2I// ON THE FLAT VERTICAL SURFACE OF THE YOKE,
JUST ABOVE THE SHAFT, TO INDICATE ACCEPTANCE. (DO NOT MARK ON THE
VERTICAL FORK OR FLAT HORIZONTAL SURFACES OF THE CLEVIS.)

8. SUPPLY STATUS - REQUISITIONING OF REPLACEMENT CLEVIS WILL BE
ACCOMPLISHED THROUGH NORMAL SUPPLY CHANNELS. A LIMITED NUMBER OF
SPARE CLEVIS ARE CURRENTLY AVAILABLE AND ACTION IS BEING TAKEN TO
ACCELERATE DELIVERIES FROM CURRENT CONTRACTORS. A NEW CLEVIS, P/H
1615UH1-100-1, NSN 5340-01-184-1317, WILL BE OBTAINED TO REPLACE
PRESENT CLEVISES TO ELIMINATE THE CURRENT CLEVIS SHORTCOMING.

9. PARTS (P/H 204-011-136-1) IN STOCK WILL BE INSPECTED PRIOR TO
INSTALLATION.

10. RECORDING AND REPORTING OF INSPECTION - NONE

11. FOREIGN MILITARY SALES/FMS RECIPIENTS REQUIRING CLARIFICATION OF
THIS MESSAGE SHOULD CONTACT AVSCOM, ANSAV-1, CW4 KYLE STEPHENSON,
AUTOVON 693-2813, COMMERCIAL 314-263-2813.

12. AVSCOM TECHNICAL POINT OF CONTACT IS MR. KEN LUBER, ANSAV-EI,
AUTOVON 693-1683, COMMERCIAL 314-263-1683.

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13. AVSCOM SUPPLY POINT OF CONTACT IS MS. RENA WINDLE, ANSAV-SAJPA,
AUTOVON 693-3528, COMMERCIAL 314-263-3528.