

# URGENT

\*TB 1-1520-240-20-120

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### CH-47D, MH-47D AND MH-47E AIRCRAFT, ONE TIME INSPECTION OF PITCH HOUSINGS, P/N 145R2075-13/-14/-15/-16

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Headquarters, Department of the Army, Washington, D. C.  
12 May 2000

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**DISTRIBUTION STATEMENT A:** Approved for public release; distribution is unlimited.

#### NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

#### 1. Priority Classification. Urgent

#### NOTE

IAW AR 95-1, Para 6-6a, MACOM Commanders may authorize temporary exception from SOF message requirements. Exception 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 TB the condition status symbol of the cited aircraft will be changed to a dash //-. The dash //- entry shall state "inspect IAW CH-47- 00-05 prior to next flight, but NLT 15 may 2000." The dash //- may be cleared when the inspection of para 8 is completed. The affected aircraft shall be inspected as soon as practical but no later than 15 may 2000. Failure to comply with the requirements of this message within the time frame specified will cause the status symbol of the affected aircraft to be upgraded to a red //x//.

b. Aircraft in Depot Maintenance. Aircraft will not be issued until compliance with this SOF has been completed.

c. Aircraft Undergoing Maintenance. Same as paragraph 1a.

d. Aircraft in Transit.

(1) Surface/Air Shipment. Prior to first flight.

(2) Ferry Status. Inspect at final destination.

(a) Same as paragraph 1a.

(b) Those aircraft that have a DD 250 and are at Boeing Helicopters will be inspected prior to ferry to final destination.

e. Maintenance Trainers (Category A and B). Comply within.

\*This TB supersedes USAAMCOM Message 11610Z MAY 00 CH-47-00-05.

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f. Component/Parts in Stock at All Levels (Depot and Others) including War Reserves. Upon receipt of this Technical Bulletin the material condition tags of all items in all condition codes listed in paragraph 6 and 7 shall be annotated to read "CH-47-00-05, one time inspection of pitch housings not complied with."

(1) Wholesale Stock. Parts will be inspected at time of installation at an authorized overhaul facility.

(2) Retail Stock. Upon receipt of this TB commanders and others maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the inspection required by paragraph 8 and the correction procedures of paragraph 9 on discrepant materiel. Disposition of discrepant materiel will be IAW paragraph 10. Report compliance with this TB IAW paragraph 14a.

g. Components/Parts in Work (Depot Level and Others). Items listed in paragraph 6 and 7 in work will not be issued until compliance with this Technical Bulletin.

**2. Task/Inspection Suspense Date.** Prior to next flight but NLT Reporting Compliance Suspense Date.

**3. Reporting Compliance Suspense Date.** Report compliance IAW para 14a NLT 22 may 2000.

**4. Summary of the Problem.**

a. Quality deficiency reports reported new pitch housings were received from supply that had surface gouges and nicks. Investigation revealed that the defects were beyond serviceability limits and that the defects were present when received from the manufacturer, Tura Machine Company. Since Tura's processing and inspection procedures are suspect all subject parts obtained from them require inspection.

b. For manpower/downtime and funding impacts see paragraph 12.

c. The purpose of this Technical Bulletin is to direct an inspection of all pitch housings which were obtained from Tura Machine Company and to remove from service any with a defect that exceeds safe limits.

**5. End Items to be inspected.** All CH-47D, MH-47D, and MH-47E Aircraft.

**6. Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER
Head, Rotary Wing, Fwd	145R2003-ALL
Head, Rotary Wing, Aft	145R2004-ALL

**7. Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Pitch Housing, Fwd	145R2075-13	3040-01--307-8963
Pitch Housing, Fwd	145R2075-15	3040-01--410-7183
Pitch Housing, Aft	145R2075-14	3040-01--307-8964
Pitch Housing, Aft	145R2075-16	3040-01--401-7298

**8. Inspection Procedures.**

a. Prepare aircraft for safe ground maintenance.

b. Inspect each rotary wing head assembly and pitch housing for pitch housing markings identifiable to serial number with the prefix //TM// (Tango-Mike). Verify the serial number for the pitch housing with the entry on the DA Form 2408-16, for the rotary wing head. If any pitch housing has this prefix perform the following visual inspection prior to next flight:

**NOTE**

It is not necessary to remove the pitch housing or rotor blades. If present the defects will be on outer surfaces, not the bores or inside surface.

(1) Wipe the pitch housing with an oil dampened cloth. While wiping, look for nicks or gouges below the paint. The location of the defects can be random.

(2) Determine the depth of any defect. Remove paint as necessary to confirm presence of a defect or to measure depth.

(3) If any defect exceeds 0.005 (five one-thousandths) of an inch the part requires further evaluation. If no defect exceeds 0.005 inches in depth the part is serviceable.

(4) To perform further evaluation use inspection criteria of depot maintenance work requirement DMWR 55-1615-296. These criteria utilize artwork and will be furnished separately (contact logistical point of contact paragraph 16b for detailed inspection criteria if required). Record all defects, reference letter, and depth. If any defect exceeds the DMWR criteria it is unserviceable.

**9. Correction Procedures.**

a. Replace suspect head with serviceable head or have suspect pitch housing assembly, replaced by authorized Depot/SRA facility. If no replacement rotor head is available units should request authorization from the technical point of contact (paragraph 16a below) to perform ground run-ups. The request should include the pitch housing serial number, the depth of the defect and the area as described in DMWR 55-1615-296, and the hours the housing has been in service. The technical point of contact is authorized to approve ground run-ups on a case by case basis.

b. Submit a report to the logistical poc listed at para 16b if the rotor head or pitch housing is unserviceable and replaced.

**10. Supply/Parts and Disposition.****NOTE**

HQDA--ODCSOPS will prioritize units and repair parts distribution in coordination with ODCSLOG and the Cargo PMO Logistics Manager/ Customer Service Office SFAE-AV--CH-L.

a. Parts Required. Items cited in paragraph 6 may be required to replace defective items.

b. Requisitioning Instructions. Requisition replacement parts using normal supply procedures. All requisitions shall use project code (CC 57-59) "XC9" (X-RAY-CHARLIE-NINE).

**NOTE**

Project code 'XC9' X-RAY--CHARLIE-NINE is required to track and establish a data base of stock fund expenditures incurred by the field as a result of Safety of Flight actions.

c. Bulk and Consumable Materials. N/A.

d. Disposition. Hold any discrepant part/component pending disposition instructions from logistical point of contact in paragraph 16.

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.

b. Estimated Time Required for inspection only.

(1) Total of 7 man-hours using 3 persons.

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(2) Total of 3 hours downtime for one end item.

c. Estimated cost impact to the field.

<b>NOMENCLATURE</b>	<b>PART NUMBER/NSN</b>	<b>QTY</b>	<b>COST EA./TOTAL</b>
Head, Rotary Wing	145R2003-10/1615-01-391-4398	1	\$175,082.00/\$175,082.00
Head, Rotary Wing	145R2004-20/1615-01-391-4399	1	\$175,082.00/\$175,082.00
Housing, Mechanical	145R2075-13/3040-01-307-8963	3	\$7,259.00/\$21,777.00
Housing, Mechanical	145R2075-14/3040-01-307-8964	3	\$7,259.00/\$21,777.00
<b>MAXIMUM COST PER AIRCRAFT - \$350,164.00</b>			

d. TB/MWOs 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. DMWR 55-1615-296.

b. DA PAM 738-751.

c. TB 1-1500-341-01.

**14. Recording and Reporting Requirements.**

a. Reporting Compliance Suspense Date (Aircraft). Upon entering requirements of this Technical Bulletin on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority message, datafax or e-mail to Commander, AMCOM, ATTN: AMSAM-SF--A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, in accordance with AR 95-1. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-mail address is "safeadm@redstone.army.mil". The report will cite SOF CH-47-00-05, date of entry in DA Form 2408-13-1, the aircraft mission design series and serial numbers of aircraft in numerical order.

b. Task/inspection reporting suspense date (aircraft). Upon completion of inspection, units will forward by e-mail or datafax to: logistics point of contract listed in paragraph 16b. The report will cite SOF CH-47-00-05, date of inspection, aircraft serial number, aircraft and component hours, and results of the inspection. Inspection and reports will be completed no later than 30 days after task/inspection suspense date.

c. Reporting Message Receipt (SPARES). N/A

d. Task/Inspection Reporting suspense Date (SPARES). N/A

e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 Mar 99:

**NOTE**

ULLS--A users will use applicable "E" forms.

(1) DA Form 2408-5-1, Equipment Modification Record (Fwd/Aft Rotor Heads).

(2) DA Form 2408-13, Aircraft Status Information Record.

(3) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(4) DA Form 2408-14, Uncorrected Fault Record.

(5) DA Form 2408-15, Historical Record for Aircraft.

(6) DA Form 2408-16, Aircraft Component Historical Record.

(7) DA Form 2410, Component Removal and Repair/Overhaul Record. (Only if FWD/AFT rotor head or pitch housings are removed/replaced).

(8) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label – Materiel (color yellow). Annotate remarks block with “Not complied with IAW CH-47-00-05”.

(9) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label -- Materiel (color red). Annotate remarks with “Condemned IAW CH-47-00-05 and mutilated IAW TM 1-1500-328-23”.

(10) DD Form 1577-2/DD Form 1577-3, Unserviceable (repairable) Tag/Label -- Materiel (color green). Annotate remarks block with “Unserviceable IAW CH-47-00-05”.

**15. Weight and Balance.** N/A.

**16. Points of Contact.**

a. Technical point of contact for this Technical Bulletin is Mr. Larry T. Wieschhaus, AMSAM-RD-AE-I-P-C, DSN 897--3341 or commercial (256) 313-3341, datafax is DSN 897-4348. E-mail is “larry.wieschhaus@redstone.army.mil”.

b. Logistical point of contact for this Technical Bulletin is Mr. Bill Olson, SFAE-AV-CH-L, DSN 897-3379 or commercial (256) 313-3379, datafax is DSN 897-4348. E-mail is “olsonw@peoavn.redstone.army.mil”.

c. Forms and records point of contact for this Technical Bulletin is Ms. Ann Waldeck, AMSAM-MMC-RE-FF, DSN 746-5564 or commercial (256) 876-5564, datafax is DSN 746-4904. E-mail is “waldeck-ab@redstone.army.mil”.

d. Safety point of contact for this Technical Bulletin is:

(1) Mr. Frank Rosebery (SAIC), AMSAM-SF-A, DSN 788-8631 or (256) 842-8631, datafax is (256)313-2111. E-mail is frank.rosebery@redstone.army.mil

(2) Mr. Howard Chilton, AMSAM-SF-A, DSN 897-2068 or commercial (256) 313-2068, datafax is DSN 897-2111 of commercial (256) 313-2111. E-mail is “howard.chilton@redstone.army.mil”.

e. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this Technical Bulletin should contact: CW5 Joseph L. Wittstrom, Security Assistance Management, AMSAM-SA, DSN 897-0410 or commercial (256) 313-0410. E-mail is “willstromjl@redstone.army.mil” or Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0408 or commercial (256) 313-0408, datafax is DSN 897-0411 or commercial (256) 313-0411. E-mail is “sammonsrw@redstone.army.mil”. Huntsville, AL is GMT minus 5 hrs.

f. After hours contact the AMCOM Command Operations Center (COC) DSN 897-2066/7 or commercial (256) 313-2066/7.

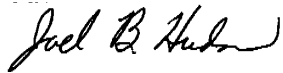
**17. Reporting of Errors and Recommending Improvements.** You can improve this Technical Bulletin. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, AL 35898-5230. You may also submit your recommended changes by E-Mail directly to “ls-lp-@redstone.army.mil”. A reply will be furnished directly to you.

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By Order of the Secretary of the Army:

Official:

ERIC K. SHINSEKI  
*General, United States Army*  
*Chief of Staff*



JOEL B. HUDSON  
*Administrative Assistant to the*  
*Secretary of the Army*  
0013003

**DISTRIBUTION:**

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The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: <ls-lp--@redstone.army.mil>

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840--229-23
9. **Pub Title:** TM
10. **Publication Date:** 04--JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123--1234
17. **Problem: 1**
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

