

URGENT

***TB 1-1520-237-20-190**

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

**MAIN ROTOR SHAFT EXTENSION ASSEMBLY
P/N 70351-08186-043
(ALL H-60 AIRCRAFT)**

**Headquarters, Department of the Army, Washington, D. C.
31 January 1997**

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

NOTE

**THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED
OR SUPERSEDED.**

1. Priority Classification.

a. Aircraft in Use. Upon receipt of this Technical Bulletin (TB), the condition status symbol of cited aircraft will be changed to a red horizontal dash "-". The red horizontal dash "-" may be cleared when the inspection of paragraph 8 below is completed. The affected aircraft shall be inspected as soon as practical but no later than the task/inspection suspense date. Failure to comply with the requirements of this TB within the applicable time frame will cause the status symbol to be upgraded to a red "X".

b. Aircraft in Depot Maintenance. Same as paragraph 1 a.

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

d. Aircraft in Transit. Same as paragraph 1 a.

e. Maintenance Trainers (Category A and B). Same as paragraph 1 a.

f. Component/Parts in Stock Including War Reserves at All Levels (Depot and Others).

(1) All items listed in paragraphs 8 below having 2100 hours or more total time shall be placed in condition code "D" and retagged with a DD Form 1575/1575-1 (brown color) and held pending test results. The authority block must reference this TB (TB 1-1520-237-20-190) (TB 1-1520-250-20-15). All other items listed in para 8 with less than 2100 hours shall be placed in condition code "D" and tagged with DD Form 1576/1576-1 (color blue). The authority block shall have the following annotation made interim life of 2100 hours assigned and reference this TB (TB 1-1520-237-20-190) (TB 1-1520-250-20-15).

(2) Wholesale Stock. N/A.

*This TB supersedes USAATCOM Aviation Safety Action Message 221453Z JAN 97, UH-60-97-ASAM-09.

2. Task/Inspection Suspense Date. Within 10 hours/14 days.

3. Reporting Compliance Suspense Date. No later than 12 February 1997 per paragraph 14a of this TB.

4. Summary of the Problem.

a. The Main Rotor Shaft Extensions manufactured by the Purdy Corporation. (Cage Code 15152) and by Fenn Manufacturing company (Cage Code 82001) are undergoing testing. Until testing has been completed an interim finite life of 2100 hours has been assigned. The Main Rotor Shaft Extension must be removed from the aircraft upon reaching 2100 hours of time in service.

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

c. The purpose of this TB is to remove all 70351-08186-043 (Cage Code 15152) and (Cage Code 82001) assemblies that have reached or exceeded 2100 hours IAW para 9.

5. End Item to be Inspected. All H-60 series aircraft.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
M/R SHAFT EXTENSION ASSEMBLY	70351-08186-043	1615-01-074-5151

7. Parts to be Inspected. N/A.

8. Inspection Procedures. Verify visually that the Main Rotor Shaft Extension Assembly P/N 70351-08186-043 has either manufacturers cage code numbers 15152 or 82001. For cage code 15152, there are three separate serial number ranges. The serial number ranges are as Follows: 32710-4 through 32710-17,0926-20 through 0926-38 and 0343-1481 through 0343-1505. For cage code 82001 the serial number range is 28600-450 through 28600-568.

NOTE

Suspect serial numbers do not have a letter prefix. If either specified shaft extension is not installed, the inspection is complete.

9. Correction Procedures. i either specified Main Rotor Shaft Extension Assembly is found, annotate the aircraft time change DA Form 2408-16 to reflect the new finite life of 2100 hours. Remove all Main Rotor Shaft Extensions, P/N 70351-08186-043, manufactured by the Purdy Corporation, cage code 15152, or Fenn manufacturing cage code 82001, that have reached 2100 hours of service life.

10. Supply/Parts and Disposition.

a. Parts Required. Items cited in para 6 may be required to replaced defective items.

b. Requisitioning Instructions. Requisition replacement parts through normal supply channels using normal supply procedures. All requisitions shall use project code "XC" per this TB.

NOTE

Project code "XC4" is required to track and establish a data base of stock fund expenditures incurred by the field as a result of ASAM/SOF actions.

c. Bulk and consumable materials. N/A.

d. Disposition. Items identified and removed for having reached the 2100 hour interim lift will be placed in condition code D and tagged with DD Form 1575 or DD Form 1575-1 (color brown) and held by the owning unit pending the results of the engineering testing.

e. Disposition of hazardous material. N/A.

11. Special Tools, Jigs and Fixtures Required. As required.

12. Application.

a. Category of Maintenance. AVUM.

b. Estimated Time Required.

(1) Total of 32 man-hours using 2 persons.

(2) Total of 16 hours downtime for one end item.

c. Estimated cost impact of stock fund items to the field. Field units will receive credit for each Assembly ordered.

NOMENCLATURE	PART NO./NSN	QUANTITY	COST/TOTAL
M/R SHAFT EXTENSION ASSEMBLY	70351-08186-043	1	\$15,496.00

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. NIA.

13. References. TM 1-1520-237-23 and TM 1-1520-250-23.

14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Date (Aircraft). Upon entering requirements of this TB on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority message, datafax or E-mail to Commander, ATCOM, ATTN: AMSAT-R-X (SOF compliance officer), per AR 95-3. Datafax number is DSN 693-2064 or commercial 314/263-2064. E-mail address is "amsatrxs@emh4.stl.army.mil". The report will cite this TB number, 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). Immediately upon completion of the requirements of para 8 units shall submit a report to the logistical POC listed in para 14b. The report must included the serial numbers of all aircraft inspected, the aircraft total time to date, the results of this inspection, and (if an item is identified as being affected by the TB) the serial number and time since new of the affected parts.

c. Reporting Compliance Suspense Data (SPARES). N/A.

d. Task/Inspection Reporting Suspense Data (SPARES). Same as 14.b.

e. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, dated 15 June 92.

(1) DA Form 2408-5-1, Equipment Modification Record (MWR Shaft Extension Assembly).

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

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

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

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

(6) DA Form 2410, Component Removal and Repair/Overhaul Record.

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Mr. Bob Rosansky, AMSAT-R-ECU, DSN 693-0434 or commercial (314)263-0434.

b. Logistical point of contact for this TB is Mr. Joe Hoover, SFAE-AV-BH-L, DSN 693-0484 or commercial (314)263-0484, FAX: DSN 693-1898, E-Mail hooverj@peo2.stl.army.mil.

c. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAT-1-MDM, DSN 490-2318 or commercial (314)260-2318.

d. Material Management (SPARES) point of contact is Ruth Cannon, AMSAT-I-SABA, DSN 693-6056 or commercial 314/263-6056.

e. Safety point of contact for this TB is Mr. Jim Walkins, AMSAT-R-X, DSN 693-2258 or commercial (314)263-2258.

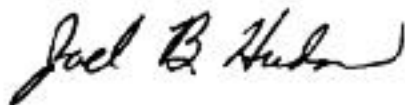
f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact CW5 Jay Nance or Mr. Ron Van Rees, AMSAT-D-S, DSN 693-7844//3316 or commercial (314)263-7844/3216. datafax is 2917.

g. After hours contact ATCOM Command Operations Center (COC) DSN 693-2066/2067 or commercial (314)263-2066/2067.

17. Reporting of Errors and Recommending Improvements. You can help improve this TB. 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 Troop Command, ATTN: AMSAT-1-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you. You may also submit your recommended changes by E-mail directly to mpmt%avma28@st-louis-emh7.army.mil. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual.

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*
03244

DENNIS J. REIMER
*General, United States Army
Chief of Staff*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-31-E, block no. 3647, requirements for TB 1-1520-237-20-190.

These are the instructions for sending an electronic 2028

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: mpmt%avma28@st-louis-emh7.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:** : 1 9-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.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="font-size: small; margin: 0;">THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</p> </div>				<h2 style="margin: 0;">SOMETHING WRONG WITH PUBLICATION</h2>	
FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)					
DATE SENT					
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE		
BE EXACT PIN-POINT WHERE IT IS					
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.	
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE		

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigram = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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