

UNCLASSIFIED

MSG DTG 171415Z JUN 09

FROM COMMANDER, AMCOM, REDSTONE ARSENAL, AL //AMSAM-SF-A//

SUBJECT - AVIATION MAINTENANCE ACTION MESSAGE (AMAM),
INFORMATIONAL, ALL OH-58D SERIES AIRCRAFT, TAIL ROTOR
(TR) DRIVESHAFT INSTALLATION AND ALIGNMENT, H-58-09-AMAM-03

NOTE

This message is effective until rescinded or superseded.

NOTE

This message is issued IAW AR 750-6 and has not been officially transmitted to units subordinate to addressees. Commanders of Army Commands (AC), Army National Guard (ARNG), United States Army Reserve (USAR), Army Service Component Commands (ASCC), and Direct Reporting Units (DRU) will immediately retransmit this message to all subordinate units, activities or elements affected or concerned, and immediately confirm this retransmittal by notification to the AMCOM SOF Compliance Officer at "safeadm@conus.army.mil".

NOTE

Commanders or Directors (not lower than the grade of Major General or civilian equivalent) of ACs, ARNG, USAR, ASCCs, and DRUs may authorize temporary exception from message requirements IAW AR 750-6, para 2-9. Exception may only occur when combat operations, matter of life or death in civil disasters, or other emergencies, are so urgent that they override the consequences of continued aircraft operation.

NOTE

A listing of published safety messages, to include TAMMS Reports, Inspection Reports, and any Supplements/Addendums required by this message can be viewed/downloaded at: "<https://asmprd.redstone.army.mil>". This is a secure website which requires an Army Knowledge Online (AKO), "<https://www.us.army.mil>", user ID and password.

1. SUMMARY -

1.1. Background - Recent field reports have been received regarding discrepancies with OH-58D Tailboom (TB) Hanger Bearing Mounts, Coupling Disc Packs, TB Bulkheads, and Oil Cooler Decks. A number of these faults were preceded by a high frequency vibration and are suspected to be related to improperly aligned

TR Driveshaft segments, improperly installed Coupling Disc Packs, and corrosion. Aviation Engineering Directorate (AED) evaluation of current TR Driveshaft installation and alignment procedures has prompted several changes to correct Technical Manual (TM) errors and improve the accuracy of the alignment measurements.

1.2. Message Purpose - Provide immediate changes to TM 1-1520-248-23.

2. **END ITEMS AFFECTED** - All OH-58D series aircraft.

3. **ASSEMBLIES/COMPONENTS/PARTS AFFECTED** - N/A.

4. **INITIAL AIRCRAFT TAMMS (THE ARMY MAINTENANCE MANAGEMENT SYSTEM) ENTRY** - N/A.

5. **COMPLIANCE REPORTING REQUIREMENTS** - N/A.

6. **SPECIAL PROVISIONS TO MESSAGE REQUIREMENTS (AIRCRAFT)** - N/A.

7. **TECHNICAL PROCEDURES/INSTRUCTIONS** -

NOTE

This message includes a required Addendum. If the Addendum is not included with this message, it may be viewed/downloaded at "<https://asmprd.redstone.army.mil>". This is a secure website which requires an Army Knowledge Online (AKO), "<https://www.us.army.mil>", user ID and password.

7.1. Upon receipt of this message, Unit Commanders will brief all appropriate maintenance personnel of the changes to TM 1-1520-248-23 contained in this message and the Addendum to H-58-09-AMAM-03.

7.2. Illustrations and procedures to Task 6-6-4 have been corrected to correctly instruct removal and installation of the Aft Shaft Assembly, PN 406-040-325-105.

7.3. Task 6-6-6 contains corrected procedures, improved illustrations, and additional corrosion control instructions for the removal, cleaning, and installation of the Coupling Disc Packs, PN 406-040-340-101.

WARNING

Failure to follow the following steps can attribute to stress points and uneven loads applied to the Disc Packs, leading to gaps between individual discs and/or premature failure.

7.3.1. Procedural errors have been reported and observed during installation of the Coupling Disc Packs. Strict adherence of all WARNINGS, CAUTIONS, and NOTES is required of maintenance personnel.

7.3.1.1. Installation of Beveled Washers with rounded edges against Coupling Disc Pack and correct torquing of nuts are Critical Safety Items (CSI).

7.3.1.2. To prevent gaps in Coupling Disc Packs, torque shall be applied to nut with bolt held stationary.

7.3.2. Reports of the presence of corrosion of several Coupling Disc Packs has warranted additional protective steps. Follow steps contained in the Addendum to H-58-09-AMAM-03 for application of Corrosion Preventive Compound (CPC).

7.4. Task 6-6-7 deletes the authorization to replace individual Coupling Disc segments. Coupling Disc Packs exceeding inspection limits will be replaced as an assembly only.

7.5. Task 6-6-19 provides a more comprehensive description of the Tail Rotor Driveshaft alignment procedure.

7.5.1. Previous published procedures for this task failed to clearly demonstrate the progressive upward slope of the Driveshaft as it travels toward the Tail Rotor Gearbox.

7.5.2. Inspection of the coupling angles is limited to the use of a Fire Control Quadrant, NSN 1290-00-891-9999, or the Kelstrom Pro3600 Digital Protractor, NSN 5210-01-418-0671.

These devices are capable to displaying the accuracy required to complete the task.

7.5.3. The coupling angles for the Tail Rotor Fan Shaft are measured as a function of Total Indicated Run-out (TIR).

Maintenance personnel should possess a sufficient understanding of the correct installation and reading of the required dial indicator.

8. PROCEDURES/INSTRUCTIONS FOR ASSEMBLIES/COMPONENTS/PARTS IN WORK OR IN STOCK (AT ALL LEVELS INCLUDING WAR RESERVES) - N/A.

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

10. SUPPLY/PARTS (REQUISITION/DISPOSITION) - N/A.

11. MAINTENANCE APPLICATION -

11.1. Category of maintenance - AVUM.

11.2. Estimated Time Required to Brief and Update TM - Total of 1.0 man-hour using 1 person.

12. PUBLICATION REQUIREMENTS -

12.1. References -

12.1.1. AR 750-6.

12.1.2. DA Pam 738-751.

12.1.3. TM 1-1520-248-23.

12.2. Publication Changes - TM 1-1520-248-23 shall be changed to reflect this message and the Addendum to H-58-09-AMAM-03. A copy of this message will be used as authority to implement the change until the official change is received.

13. POINTS OF CONTACT -

13.1. Technical POCs -

13.1.1. Primary - Mr. Scott Harris (Avion), DSN 897-2405 or (256) 313-2405. Fax: DSN 788-6758 or (256) 842-6758. Email: "michael.harris@amrdec.army.mil".

13.1.2. Alternate - Mr. Gerald Johnson, DSN 897-2233 or (256) 313-2233. Fax: DSN 788-6758 or (256) 842-6758. Email: "gerald.f.johnson@us.army.mil".

13.2. Project/Product Manager's (PM) Office POCs -

13.2.1. Logistics (Primary) - Mr. Fernando Figueroa, DSN 645-8111 or (256) 955-8111. Fax: DSN 645-7125 or (256) 955-7125. Email: "fernando.figueroa@us.army.mil".

13.2.2. Logistics (Alternate) - Mr. Chuck Wright, DSN 645-7077 or (256) 955-7077. Fax: DSN 645-7125 or (256) 955-7125. Email: "charles.d.wright@us.army.mil".

13.3. Forms and Records POCs -

13.3.1. Primary - Ms. Ann Waldeck, DSN 746-5564 or (256) 876-5564. Email: "ann.waldeck@conus.army.mil".

13.3.2. Alternate - Mr. David Derbort, DSN 746-5151 or (256) 876-5151. Email: "david.derbort@conus.army.mil".

13.4. AMCOM Safety POCs -

13.4.1. Primary - Mr. Harry Trumbull (SAIC), DSN 897-2095 or (256) 313-2095. Email: "harry.trumbull@conus.army.mil".

13.4.2. Alternate - Mr. Don Swallom, DSN 788-8641 or (256) 842-8641. Email: "donald.swallom@conus.army.mil".

13.5. Foreign Military Sales POCs -

13.5.1. Primary - Mr. George Ashmore (CAS), DSN 788-1094 or (256) 842-1094. Email: "george.ashmore1@us.army.mil".

13.5.2. Alternate - Mr. Tom Gibson, DSN 788-1077 or (256) 842-1077. Email: "thomas.b.gibson@us.army.mil".

13.6. After hours, contact the AMCOM Operations Center (AOC), DSN 897-2066/7 or (256) 313-2066/7.