

***TM 1-1520-240-MTF**

**MAINTENANCE TEST
FLIGHT MANUAL**

**ARMY MODEL
CH-47D HELICOPTER**

*This manual supersedes TM 55-1520-240-MTF, dated 8 September 1982, including all changes.

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**HEADQUARTERS
DEPARTMENT OF THE ARMY**

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WARNING

A maintenance test flight is an exceptionally demanding operation and requires a thorough flight readiness inspection (PREFLIGHT). The flight readiness inspection is prescribed in TM 1-1520-240-10 operators manual and must be completed prior to each maintenance test flight. Emergency procedures are found in the applicable -10 or checklist (CL) and are not duplicated in this publication. Prior to each maintenance test flight, the pilot will contact maintenance/quality control personnel to determine the maintenance that has been performed. This manual should be used only by qualified maintenance test flight pilots as required in AR 95-1 and TM 1-1500-328-23.

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) located in the back of the applicable operator's manual, (ensure the publication number and title reflect this MTF) direct to: Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5000. A reply will be furnished to you. You may also send in your comments electronically to our e-mail address: 2028@redstone.army.mil or by fax 256-842-6546/DSN 788-6546. Instructions for sending an electronic 2028 may be found at the back of the Aircraft Operator's manual.

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SECTION I INTRODUCTION

1. **Purpose.** The purpose of this manual is to provide complete instructions for performing a maintenance test flight of CH-47D aircraft. For the specific conditions which require a general or limited maintenance test flight, refer to TM 1-1500-328-23 and TM 55-1520-240-23.

2. **Definitions.**

a. **Maintenance Test Flight.** A functional test flight for which the primary purpose is to determine whether the airframe, powerplant, accessories, and other equipment are functioning in accordance with predetermined requirements while subjected to the intended environment.

b. **Warnings, Cautions, and Notes.** Warnings, Cautions, and Notes are used to emphasize important and critical instructions and are used for the following conditions:

WARNING

An operating procedure, practice, ect., which if not correctly followed, will result in personnel injury or loss of life.

CAUTION

An operating procedure, practice, ect., which if not strictly observed, will result in damage or destruction of equipment.

NOTE

An operating procedure, condition, ect., which is essential to highlight.

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3. General Information.

a. This manual covers only maintenance test flight of CH-47D aircraft and in no way supercedes any information contained in TM 1-1520-240-10 or applicable -CL, but is to be used in conjunction with the -10 and -CL. For the purpose of maintenance test flights only, this manual satisfies all the requirements of the -CL from Interior Check through Engine Shutdown.

b. Crew requirements will be as specified in TM 1-1500-328-23 and TM 1-1520-240-10.

c. The duration of the general or limited test flight will be in accordance with the requirements of TM 1-1500-328-23.

4. Special Instructions.

a. **Cargo and Passengers.** Cargo and passengers are prohibited on maintenance test flights.

b. **Forms and Records.** Forms and records will be checked prior to the maintenance test flight to determine what maintenance has been performed and the type of maintenance test flight required (i.e., general or limited).

c. **Configuration.** The configuration of the aircraft should be determined prior to each maintenance test flight in order to determine performance parameters.

d. **Post Test Flight Inspection.** A thorough visual inspection will be performed to the extent necessary to assure that deficiencies or shortcomings that may have developed as a result of the maintenance test flight are detected.

e. **References.** When a maintenance test flight is required to assure proper operation of a specific system(s), refer to the applicable maintenance manual for the limits of that system.