

**TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
ARMY CH-47D
HELICOPTER
(EIC: RCD)**

***This manual supersedes TM 55-1520-240-10, 30 April 1992,
including all changes.**

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**HEADQUARTERS, DEPARTMENT OF
THE ARMY
31 January 2003**

WARNING DATA

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TECHNICAL MANUAL

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 31 JANUARY 2003

**OPERATOR'S MANUAL
FOR
ARMY MODEL CH-47D HELICOPTER**

REPORTING 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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) located in the back of this manual directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5230. You may also submit your recommended changes by E-Mail directly to 2028@redstone.army.mil or by fax (256) 842-6546/DSN 788-6546. A reply will be furnished directly to you. Instruction for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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CHAPTER 1

INTRODUCTION

SECTION I. INTRODUCTION

1-1-1. General.

These instructions are for use by the operator. They apply to CH-47D helicopters.

1-1-2. WARNINGS, CAUTIONS, AND NOTES DEFINED.

Warnings, cautions, and notes are used to emphasize important and critical instructions and are used for the following conditions.

WARNING

An operating procedure, practice, etc., which if not correctly followed, could result in personal injury or loss of life.

CAUTION

An operating procedure, practice, etc., which, if not strictly observed, could result in damage to or destruction of equipment.

NOTE

An operating procedure, condition, etc., which it is essential to highlight.

1-1-3. Helicopter Description.

This manual contains the complete operating instructions and procedures for the CH-47D helicopters. It is powered by two T55 L-712 or T55-GA-714A engines. The primary mission of the helicopter is troop and cargo transport. The observance of limitations, performance, and weight and balance data provided is mandatory. Your flying experience is recognized, therefore, basic flight principles are not included. It is required that THIS MANUAL BE CARRIED IN THE HELICOPTER AT ALL TIMES.

1-1-4. Introductory Material.

The following paragraphs describe certain sections of this manual, referenced forms, manuals, and Army Regulations. Also included is the procedure to follow to report errors or to recommend changes.

1-1-5. Appendix A, Reference.

Appendix A is a listing of official publications cited within the manual applicable to and available to flight crews.

1-1-6. Appendix B, Abbreviation.

Appendix B is a list of the abbreviations used in this manual.

1-1-7. Appendix C, Conditional Inspections.

Appendix C is a listing of conditions which require a DA Form 2408-13-1 entry.

1-1-8. Index.

The index lists in alphabetical order, every titled paragraph, figure, and table contained in this manual.

1-1-9. Army Aviation Safety Program.

Reports necessary to comply with the Army Aviation Safety program are prescribed in AR 385-40.

1-1-10. Destruction of Army Material to Prevent Enemy Use.

For information concerning destruction of Army material to prevent enemy use, refer to TM 750-244-1-5.

1-1-11. Forms and Records.

Army aviators flight record and aircraft maintenance records which are to be used by crewmembers are prescribed in DA PAM 738-751 and TM 55-1500-342-23.

1-1-12. Change Symbol Explanation.

Changes, except as noted below, to the text and tables, including new material on added pages, are indicated by a vertical line. The vertical line is in the outer margin and extends close to the entire area of the material affected with the following exception: pages with emergency markings, which consist of black diagonal lines around three edges, may have the vertical line or change symbol placed along the inner margins. Symbols show current changes only. A miniature pointing hand symbol is used to denote a change to an illustration. However, a vertical line in the outer margin, rather than miniature pointing hands, is used when there have been extensive changes made to an illustration. Change symbols are not used to indicate changes in the following:

- a. Introductory material.
- b. Indexes and tabular data where the change cannot be identified.
- c. Blank space resulting from the deletion of text, an illustration, or table.
- d. Correction of minor inaccuracies, such as spelling, punctuation, relocation of material, etc., unless such correction changes the meaning of instructive information and procedures.

1-1-13. Aircraft Designation System.

1-1-14. The designation system prescribed by AR 70-50 is used in aircraft designation as follows:
Example CH-47D

- C - Mission symbol (cargo)
- H - Basic mission and type symbol (Helicopter)
- 47 - Design number
- D - Series symbol

1-1-15. Series and Effectivity Codes.

Designator symbols listed below are used to show limited effectivity of airframe information material in conjunction with text content, paragraph titles, and illustrations. Designators may be used to indicate proper effectivity, unless the material applies to all models and configuration within the manual. Designator symbols precede procedural steps Designator symbols listed below are used to show limited effectivity of airframe information material in

conjunction with text content, paragraph titles, and illustrations. Designators may be used to indicate proper effectivity, unless the material applies to all models and configuration within the manual. Designator symbols precede procedural steps in Chapters 5, 8 and 9. If the material applies to all series and configurations, no designator symbol will be used.

DESIGNATOR SYMBOL	APPLICATION
712	CH-47D aircraft equipped With T55-L-712 engines.
714A	CH-47D aircraft equipped with T55-GA-714A engines

1-1-16. Use of “Shall, Should, and May”.

Within this technical manual, the word “shall” is used to indicate a mandatory requirement. The word “should” is used to indicate a nonmandatory but preferred method of accomplishment. The word “may” is used to indicate an acceptable method of accomplishment.