

TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
ARMY RC-12 P AIRCRAFT
NSN 1510-01-370-0805
AND
ARMY RC-12Q AIRCRAFT
NSN 1510-01-417-0137

WARNING DATA

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Distribution Statement A: Approved for public release;
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HEADQUARTERS
DEPARTMENT OF THE ARMY
31 December 1998

*This manual supersedes TM 1-1510-224-10, dated 16 May 1997, including all changes.

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help Improve this manual. If you find any mistakes or If you know of any way to Improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located In the back of this manual direct to: Commander, U.S. Army Aviation and Missile Command ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, AL 35898-5230. A reply will be furnished to you. You may also send In your comments electronically to our e-mail address; ls-lp@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 this manual Immediately preceding the hard copy 2028.

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CHAPTER 1 INTRODUCTION

1-1. GENERAL

These instructions are for use by the operator(s). They apply to the RC-12P and RC-12Q aircraft.

1-2. WARNINGS, CAUTIONS, AND NOTES.

Warnings, cautions, and notes are used to emphasize important and critical instructions. Explanatory examples are as follows:

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, condition, or statement, which if not strictly observed, could result in damage to or destruction of equipment, loss of mission effectiveness, or long term health hazards to personnel.

NOTE

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

1-3. DESCRIPTION.

This manual contains the best operating instructions and procedures for the RC-12P and RC-12Q aircraft under most circumstances. The observance of limitations, performance, and weight/balance data provided is mandatory. The observance of procedures is mandatory except when modification is required because of multiple emergencies, adverse weather, terrain, etc. Basic flight principles are not included. THIS MANUAL SHALL BE CARRIED IN THE AIRCRAFT DURING ALL FLIGHTS.

The RC-12P and RC-12Q are pressurized, low wing, all metal aircraft and are powered by two turboprop engines. The RC-12Q aircraft is distinguished by the large SATCOM radome located on top of the fuselage.

a. *RC-12P P* Basic Mission Statement. The basic mission of the aircraft is radio reconnaissance.

b. *RC-12Q Q* Basic Mission Statement. The basic mission of the aircraft is Direct Air to Satellite Relay

(DASR) communications.

1-4. APPENDIX A, REFERENCES.

Appendix A is a listing of official publications, cited within this manual, which are applicable to and available for flight crews.

1-5. APPENDIX B, ABBREVIATIONS AND TERMS.

Appendix B is a listing of abbreviations and terms used throughout this manual.

1-6. INDEX.

The index lists, in alphabetical order, titled paragraphs, figures, and tables contained in this manual.

1-7. ARMY AVIATION SAFETY PROGRAM.

Reports necessary to comply with the safety program are prescribed in AR 385-40.

1-8. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

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

1-9. FORMS AND RECORDS.

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

1-10. EXPLANATION OF CHANGE SYMBOLS.

Except as noted in this paragraph, changes to text and tables, including new material on added pages, are indicated by a vertical line in the outer margin extending close to the entire area of the material affected.

NOTE

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.

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 utilized when there have been extensive changes made to an illustration. Symbols show current changes only. Change symbols are not utilized 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 a table.

d. Correction of minor inaccuracies, such as spelling, punctuation, relocation of material, etc., unless correction changes the meaning of instructive information and procedures.

1-11. SERIES AND EFFECTIVITY CODES.

Designator symbols such as **P** (RC-12P) and **Q** (RC-12Q) are used in conjunction with-text contents, text headings and illustration titles to show limited effectivity of the material. If applicable, a designator symbol may follow a text heading or illustration title to indicate proper effectivity, unless the material applies to all series and configurations within the manual. If the material applies to all series and configurations, no designator symbols will be used. Note, however, that Chapter 7 **P** applies only to the RC-12P, while Chapter 7A **Q** applies only to the RC-12Q. Designator symbols will not be used in these chapters other than within the chapter title. Designator symbols will precede procedural steps in Chapters 8 and 9, if applicable.

1-12 AIRCRAFT DESIGNATION SYSTEM.

The designation system prescribed by AR 70-50 is used in aircraft designations as follows:

EXAMPLE RC-12P

R - Modified mission symbol (Reconnaissance)

C - Basic mission and type symbol (Cargo)

12 - Design number

P - Series symbol

1-13. USE OF WORDS 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.

1-14. PLACARD ITEMS.

Where applicable, placarded items (switches, controls, etc.) are shown, throughout this manual, in boldface capital letters.