TECHNICAL MANUAL

OPERATOR'S MANUAL FOR ARMY C-12R AIRCRAFT

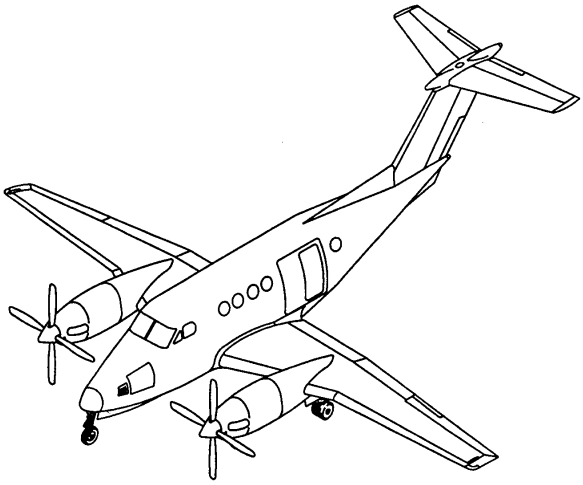
NSN 1510-01-425-1355

ARMY C-12T3 AIRCRAFT

NSN 1510-01-470-0220

ARMY C-12F3 AIRCRAFT

NSN 1510-01-235-5840



Distribution statement A: Approved for public release, distribution is unlimited.

***This manual supersedes TM 1-1510-225-10 dated 10 June 1998, including all changes.**

HEADQUARTERS DEPARTMENT OF THE ARMY

4 SEPTEMBER 2001

- WARNING DATA
- TABLE OF CONTENTS
- INTRODUCTION
- DESCRIPTION AND OPERATION
- AVIONICS
- MISSION EQUIPMENT
- OPERATING LIMITS AND RESTRICTIONS
- WEIGHT/BALANCE AND LOADING
- PERFORMANCE DATA
- NORMAL PROCEDURES
- EMERGENCY PROCEDURES
- REFERENCES
- ABBREVIATIONS AND TERMS
- ALPHABETICAL INDEX

TECHNICAL MANUAL

NO. 1-1510-225-10

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 4 September 2001

OPERATOR'S MANUAL FOR ARMY C-12R, C-12T3, AND C-12F3 AIRCRAFT

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) or DA Form 2028-2 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. A reply will be furnished to you. You may also send your comments electronically to our e-mail address, ma-np@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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TABLE OF CONTENTS

		Page
CHAPTER 1	INTRODUCTION	1-1
CHAPTER 2	AIRCRAFT AND SYSTEMS DESCRIPTION AND OPERATION	2-1
Section I.	Aircraft	2-1
Section II.	Emergency Equipment	2-31
Section III.	Engines And Related Systems	2-31
Section IV.	Fuel System	2-62
Section V.	Flight Controls	2-70
Section VI.	Propellers	2-75
Section VII.	Utility Systems	2-78
Section VIII.	Heating, Ventilation, Cooling, And Environmental Control System	2-88
Section IX.	Electrical Power Supply And Distribution System	2-93
Section X.	Lighting	2-109
Section XI.	Flight Instruments	2-111
Section XII.	Servicing, Parking, And Mooring	2-123
CHAPTER 3	AVIONICS (COMMON) R T3 F3	3-1
Section I.	General	3-1
Section II.	Communications	3-1
Section III.	Navigation	3-8
Section IV.	Radar and Transponder	3-8
CHAPTER 3A	AVIONICS R	3A-1
Section I.	General	3A-1
Section II.	Communications	3A-1
Section III.	Navigation	3A-16

TABLE OF CONTENTS
(Continued)

		Page
Section IV.	Radar and Transponder	3A-106
CHAPTER 3B	AVIONICS T3	3B-1
Section I.	General	3B-1
Section II.	Communications	3B-2
Section III.	Navigation	3B-5
Section IV.	Radar and Transponder	3B-177
CHAPTER 3C	AVIONICS F3	3C-1
Section I.	General	3C-1
Section II.	Communications	3C-1
Section III.	Navigation	3C-8
Section IV.	Radar and Transponder	3C-48
CHAPTER 3D	AVIONICS, GLOBAL POSITIONING SYSTEM KLN 90B T3 F3	3D-1
CHAPTER 4	MISSION EQUIPMENT (NOT INSTALLED)	4-1
CHAPTER 5	OPERATING LIMITS AND RESTRICTIONS	5-1
Section I.	General	5-1
Section II.	System Limits	5-1
Section III.	Power Limits	5-11
Section IV.	Loading Limits	5-14
Section V.	Airspeed Limits, Maximum And Minimum	5-15
Section VI.	Maneuvering Limits	5-15
Section VII.	Environmental Restrictions	5-16
Section VIII.	Other Limitations	5-18
Section IX.	Required Equipment For Various Conditions Of Flight	5-18
CHAPTER 6	WEIGHT/BALANCE AND LOADING	6-1
Section I.	General	6-1
Section II.	Weight And Balance	6-1
Section III.	Fuel/Oil	6-6
Section IV.	Personnel	6-11
Section V.	Mission Equipment	6-11
Section VI.	Cargo Loading	6-11
Section VII.	Center Of Gravity	6-12
CHAPTER 7	PERFORMANCE DATA	7-1
CHAPTER 8	NORMAL PROCEDURES R	8-1
Section I.	Mission Planning	8-1
Section II.	Operating Procedures And Maneuvers	8-1
Section III.	Instrument Flight	8-21
Section IV.	Flight Characteristics	8-21
Section V.	Adverse Environmental Conditions	8-24
Section VI.	Crew Duties	8-28

TABLE OF CONTENTS
(Continued)

		Page
CHAPTER 8A	NORMAL PROCEDURES T3 F3	8A-1
Section I.	Mission Planning	8A-1
Section II.	Operating Procedures And Maneuvers	8A-1
Section III.	Instrument Flight	8A-21
Section IV.	Flight Characteristics	8A-21
Section V.	Adverse Environmental Conditions	8A-22
Section VI.	Crew Duties	8A-28
CHAPTER 9	EMERGENCY PROCEDURES	9-1
APPENDIX A	REFERENCES	A-1
APPENDIX B	ABBREVIATIONS AND TERMS	B-1
INDEX		Index-1

CHAPTER 1
INTRODUCTION

1-1. GENERAL.

These instructions are for use by the operators. They apply to the C-12R, C-12T3, and C-12F3 model 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 C-12R, C-12T3, and C-12F3 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. Manuals printed from CD must be on standard 8 1/2 x 11 paper.

Users are authorized to remove the chapters that are not applicable to their aircraft model and are not required to carry those chapters on-board.

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 records 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.

a. General. Change symbols show current changes only. Change symbols are not used to indicate changes in the following: introductory material; indexes and tabular data where the change cannot be identified; blank space resulting from the deletion of text, an illustration or a table; or correction of minor inaccuracies, such as spelling, punctuation, relocation of material, etc., unless correction changes the meaning of instructive information and procedures.

b. Text and Table Changes. 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.

c. Illustration Changes 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.

1-11. AIRCRAFT DESIGNATION SYSTEM.

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

b. Example C-12R:

C – Basic mission and type symbol (Cargo)

12 – Design number

R – Series symbol

1-12. AIRCRAFT EFFECTIVITY DESIGNATORS AND SERIALIZATION.

The aircraft effectivity for content within this manual will be designated by the following symbols. These symbols may be used individually or in groups.

R All C-12R aircraft.

T3 Aircraft with serial numbers 84-0143 through 84-0182 or serial numbers 84-0484 through 84-0489 ***modified*** with the cockpit and digital engine instrument upgrade.

F3 Aircraft with serial numbers 84-0143 through 84-0182 or serial numbers 84-0484 through 84-0489 ***not modified*** with the cockpit and digital engine instrument upgrade.

OSA Operation Support Airlift aircraft with serial numbers 84-0143 through 84-0182 issued from the U.S. Air Force.

ANG Aircraft with serial numbers 84-0484 through 84-0489 issued from the Air National Guard.

The effectivity symbols listed are used in conjunction with paragraph titles, text content, performance charts and graphs, tables, figure titles, and specific items on illustrations to show proper effectivity of the material as applicable. If the material applies to all models within the manual, no effectivity designators are used. Where practical, to avoid duplication, descriptive information is written to apply to all models and split series effectivities.

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.

1-15. AVIONICS CHAPTERS.

This manual contains five Avionics chapters entitled as follows:

Chapter 3 Avionics	— Avionics common to all C-12R, C-12T3, and C-12F3 Aircraft
Chapter 3A Avionics	— C-12R Aircraft
Chapter 3B Avionics	— C-12T3 Aircraft
Chapter 3C Avionics	— C-12F3 Aircraft
Chapter 3D Global Positioning System	— C-12R and C-12F3 Aircraft

1-16. NORMAL PROCEDURES.

This manual contains two Normal Procedures chapters entitled as follows.

Chapter 8 Normal Procedures	– C-12R Aircraft
Chapter 8A Normal Procedures	– C-12T3 and C-12F3 Aircraft