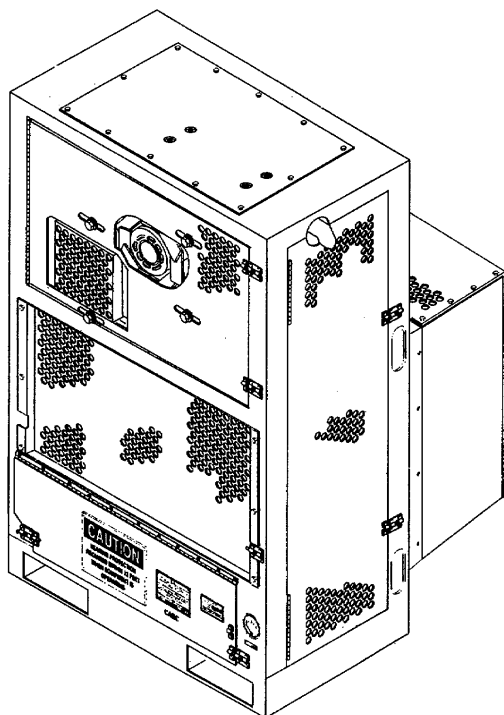


TECHNICAL MANUAL

OPERATOR'S, UNIT, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUALREFRIGERATION UNIT, MECHANICAL,
5K BTU, DIESEL
MODEL F5000RD

(4110-01-389-9181)

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HEADQUARTERS, DEPARTMENT OF THE ARMY

10 October 1996

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 10 October 1996

**OPERATOR'S, UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL
FOR
REFRIGERATION UNIT, MECHANICAL,
5K BTU, DIESEL
MODEL F5000RD
4110-01-389-9181**

Reporting of Errors

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 these 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 Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <daf2028@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately proceeding the hard copy 2028.

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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using this equipment.

This manual contains instructions for operation and maintenance of the Refrigeration Unit.

The front cover index of this manual lists the areas of the manual used most often and guides you to those sections. Follow the black mark on the cover index edge through the pages to the edge mark on the section you want. The subjects on the front cover index are also boxed in the table of contents. A detailed alphabetical index is located at the back of the manual.

Chapter 1- Introduces you to the equipment and gives you information such as weight and dimensions used and general theory of operation including principles of operation.

Chapter 2- Provides the operator with information necessary to identify and service the equipment. Operating instructions for usual and unusual conditions.

Chapter 3- Provides operator lubrication tasks, and troubleshooting procedures for identifying common equipment malfunctions. Provides maintenance procedures for performing operator maintenance tasks.

Chapter 4- Provides unit maintenance personnel with procedures for lubrication and service upon receipt of equipment and instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Chapter 5- Provides direct support maintenance personnel with instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Chapter 6- Provides general support maintenance personnel with instructions for performing repairs on equipment as authorized by the maintenance allocation chart.

Appendix A -Provides a list of frequently used forms and publications referenced or used in this manual.

Appendix B -The maintenance allocation chart identifies repairable components and the maintenance level authorized to perform the repairs.

Appendix C- List of components of end item and basic issue items to help you inventory the equipment.

Appendix D- Lists additional items that are authorized for the support of the refrigeration unit.

Appendix E- Lists expendable and durable items needed to operate and maintain the refrigeration unit.

Appendix F- Provides you with instructions for making items authorized to be manufactured or fabricated at unit, direct support or general support maintenance.

Appendix G- Lists all mandatory replacement parts.

Alphabetical Index Lists subject matter contained in manual in alphabetical order with the paragraph number.

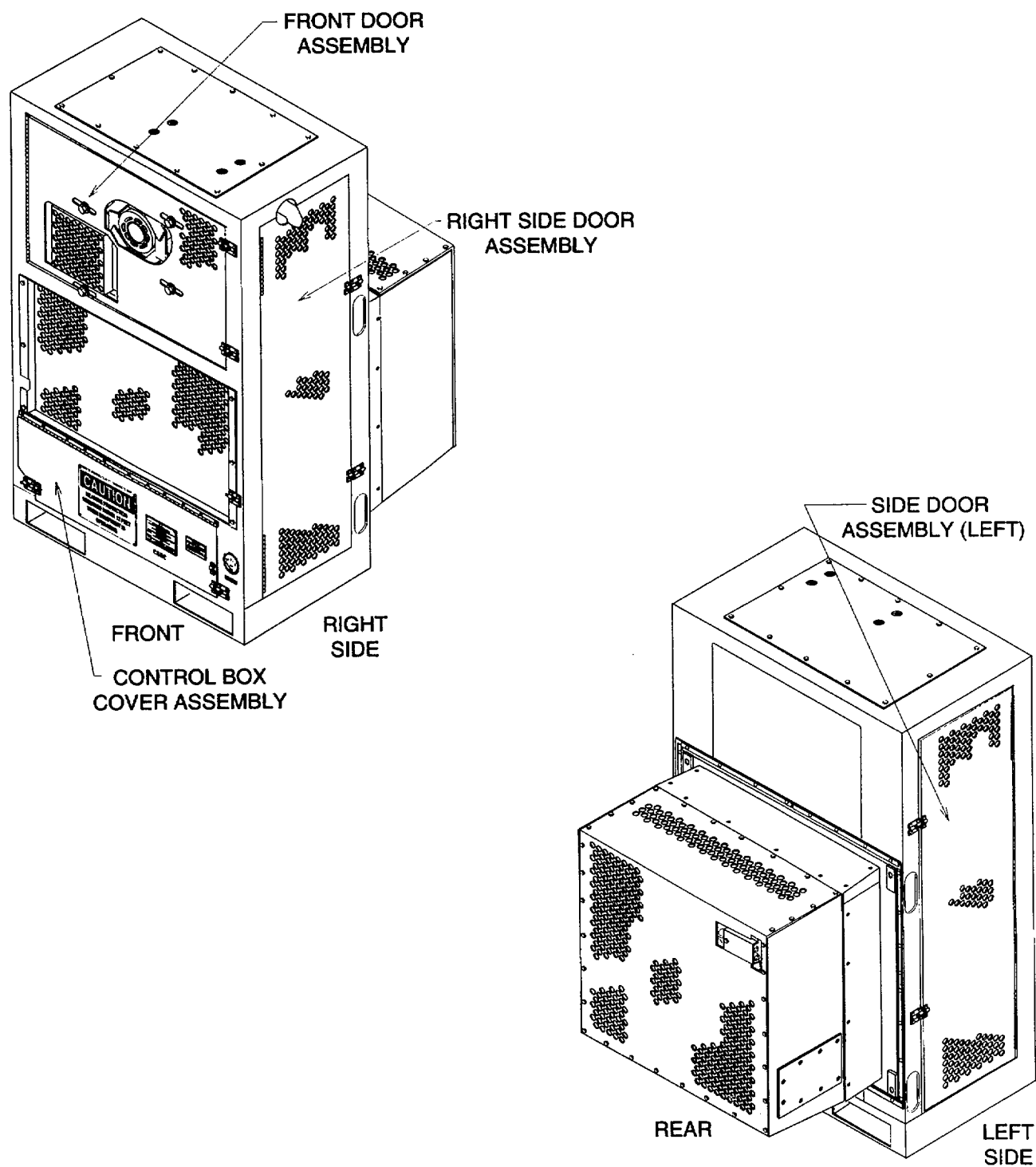


Figure 1-0. Refrigeration Unit

CHAPTER 1

INTRODUCTION

SECTION I GENERAL INFORMATION

1-1. SCOPE.

- a. Type of Manual. Operator's, Unit, Direct Support and General Support Maintenance Manual.
- b. Model Number and Equipment Name. The Model F5000RD, Mechanical, Diesel engine driven, 5,000 Btu per hour Refrigeration Unit.
- c. Purpose of Equipment. The portable, field use refrigeration unit is intended to be used with a 150 cubic foot refrigerator covered by MIL-R-12571 and a 70 cubic foot refrigerator covered by MIL-R-43024.

1-2. MAINTENANCE FORMS. RECORDS AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750, The Army Maintenance Management System.

1-3. DESTRUCTION OF ARMY MATERIAL TO PREVENT ENEMY USE.

Refer to TM 750-244-3 for specific instructions on the destruction of army material to prevent enemy use.

1-4. PREPARATION FOR STORAGE OR SHIPMENT.

Refer to Chapter 4 for specific information under the same heading.

1-5. QUALITY ASSURANCE.

Requirement for specific quality assurance steps are not applicable to this equipment.