# TM 5-4110-204-13

#### DEPARTMENT OF THE ARMY TECHNICAL MANUAL

# OPERATOR'S, ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS LIST)

REFRIGERATOR PREFABRICATED; PANEL TYPE; W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932

#### TYPE 1, CLASS I AND II

600 CU FT, FSN 4110-269-5096 600J CU FT, FSN 4110-926-9544 1200 CU FT, FSN 4110-926-4159 1800 CU FT, FSN 4110-057-0321 3000 CU FT, FSN 4110-264-6226 4000 CU FT, FSN 4110-269-5071

#### TYPE II, CLASS I AND II

400 CU FT, FSN 4110-618-8709600 CU FT, FSN 4110-618-8710800 CU FT, FSN 4110-618-87111200 CU FT, FSN 4110-618-87121400 CU FT, FSN 4110-618-87131600 CU FT, FSN 4110-618-8714

This copy is a reprint which includes current pages from Changes I through 10.

HEADQUARTERS, DEPARTMENT OF THE ARMY

14 DECEMBER 1966

#### **SAFETY PRECAUTIONS**

Keep hands free from the striker hatch plate and latch when going in or out of the  $\mbox{ refrigerator}_{\circ}$ 

Disconnect the electrical power before making any repairs to the electrical components.

Be sure inside walk-in door latch is in proper operating condition to prevent personnel from becoming locked inside the refrigerator.

CHANGE NO. 11

### HEADQUARTERS, DEPARTMENT OF THE ARMY WASHINGTON, DC, 31 JULY 2005

#### **TECHNICAL MANUAL**

OPERATOR'S, ORGANIZATIONAL AND DIRECT SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS LIST): REFRIGERATOR, PREFABRICATED; PANEL TYPE W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932; 600 CU FT (NSN 4110-00-269-5096), 1200 CU FT (4110-00-926-4159); 1800J CU FT (4110-00-168-1937); TK600J CU FT (4110-00-5027); TK 1200J CU FT (4110-00-574-5744); TK4000J CU FT (4110-00-574-5789); TKR4000A CU FT (4110-01-119-3962); 600J CU FT (4110-00-926-9544); 1800 CU FT (4110-00-057-0321); 3000 CU FT (4110-00-264-6226); 4000 CU FT (4110-00-269-5071); TKR600A CU FT (4110-01-119-3960); TKR1200A CU FT (4110-01-120-5735) AND TKR1800A CU FT (4110-01-119-3961) (REPRINTED W/ BASIC INCL C1-

(THIS ITEM IS INCLUDED ON EM 0174)

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TM 5-4110-204-13, 14 Dec 1966, is updated as follows:

- 1. File this sheet in front of the manual for reference.
- 2. This change implements the Army Maintenance Transformation and changes the Maintenance Allocation Chart (MAC) to support Field and Sustainment Maintenance.
- 3. New or updated text is indicated by a vertical bar in the outer margin of the page.
- 4. Added illustrations are indicated by a vertical bar adjacent to the figure number. Changed illustrations are indicated by a miniature pointing hand adjacent to the updated area and a vertical bar adjacent to the figure number.
- 5. Remove old pages and insert new pages as indicated below:

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A/(B Blank) (before page i)

C-1 through C-4 C-1 through C-8

**Electronic 2028 Instructions (Before DA-2028s)** 

DA-2028(Test) Sample DA-2028 Sample (Front/Back)

DA-2028 (Test)/Envelope DA-2028 Front/Back DA-2028 Front/Back

#### ARMY TM 5-4110-204-13

#### Change 11

By Order of the Secretary of the Army:

PETER J. SCHOOMAKER General, United States Army Chief of Staff

Official:

SANDRA R. RILEY

Administrative Assistant to the

Secretary of the Army

06100

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Change No. 10

## HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 7 October 1983

Operator's, Organizational, and Direct Support
Maintenance Manual
(Including Repair Parts List)

## REFRIGERATOR, PREFABRICATED; PANEL TYPE, W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932

600 cu ft NSN 4110-00-269-5096 600J cu ft NSN 4110-00-926-9544
1200 cu ft NSN 4110-926-4159 1800 cu ft NSN 4110-00-057-4321
1800J cu ft NSN 4110-00-168-1937 3000 cu ft NSN 4110-00-264-6226
TK600J cu ft NSN 4110-00-571-5027 4000 cu ft NSN 4110-00-269-5071
TK1200J cu ft NSN 411040-574-5744 TKR600A cu ft NSN 4110-01-119-3960
TK4000J cu ft NSN 4110-119-3962 TKR1200A cu ft NSN 4110-01-119-3961

TM 5-4110-204-13, 14 December 1966, is changed as follows:

- 1. Title is changed as shown above.
- 2. Remove and insert pages as indicated below.

Remove pages Insert pages
D-1 thru D-30 D-1 thru D-30

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  - 4. Retain this sheet in front of manual for reference purposes.

By Order of the Secretary of the Army:

JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

Official:

ROBERT M. JOYCE

Major General, United States Army
The Adjutant General

#### **DISTRIBUTION:**

To be distributed in accordance with DA Form 12-25C, Operator Maintenance requirements for Refrigeration Equipment.

Change No. 9

## HEADQUAKTERS DEPARTMENT OF THE ARMY

WASHINGTON, D.C. ,26 February 1982

Operator's, Organizational, and Direct Support
Maintenance Manual
(Including Repair Parts List)

REFRIGERATOR, PREFABRICATED; PANEL TYPE, W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932

TYPE I, CLASS I and II

600 cu ft NSN 4110-00-269-5096	600J cu ft NSN 4110-00-926-9544	4
AA-1200 cu ft NSN 4110-01-113-6577	1800 cu ft NSN 4110-00-057-0321	1
1600J cu ft NSN 4110-00-166-1937	3000 cu ft NSN 4110-00-264-6226	6
TK600J cu ft NSN 4110-00-571-5027	4000 cu ft NSN 4110-00-269-5071	1
TK1200J cu ft NSN 4110-00-574-5744		
TK4000J cu ft NSN 4110-00-574-5789		

#### TYPE II, CLASS I AND 11

<i>400</i> cu ft NSN 4119-00-618-8709	600 cu ft NSN 4110-00-618-8710
800 cu ft NSN 4110-00-618-8711	1200 cu ft NSN 4110-00-618-8712
1400 cu ft NSN 4110-00-618-8713	1600 cu ft NSN 4110-00-618-8714

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E.C.MEYER

General, United States Army

Chief of Staff

Official:

ROBERT M. JOYCE Brigadier General, United States Army The Adjutant General

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Change

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, 29 March 1976

## Operator's, Organizational, and Direct Support Maintenance Manual (Including Repair Parts List)

REFRIGERATOR, PREFABRICATED; PANEL TYPE, W/O
REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS
M-R-10932
TYPE 1, CLASS I AND II

600 cu ft NSN 4110-00-269-5096	600J cu ft NSN 4110-00-926-9544
1200 cu ft NSN 4110-00-926-4159	1800 cu ft NSN 4110-00-057-0321
1800J cu ft NSN 4110-00-168-1937	3000 cu ft NSN 4110-00-264-6226
TK600J cu ft NSN 4110-00-571-5027	4000 cu ft NSN 4110-00-269-5071
TK1200J cu ft NSN 4110-00-574-5744	
TK4000J cu ft NSN 4110-00-574-5789	

#### TYPE II, CLASS I AND II

400 cu ft NSN 4110-00-618-8709	600 cu ft NSN 4110-00-618-8710
800 cu ft NSN 4110-00-618-8711	1200 cu ft NSN 4l10-00-6l8-87l2
1400 cu ft NSN 4110-00-618-8713	1600 cu ft NSN 4110-00-618-8714

#### **CURRENT AS OF 24 OCTOBER 1975**

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Pages D-5 through D-18. Wherever manufacturer's code (5E499) appears, change to read, "53853".

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Remove pages Insert pagea
1-1 and 1-2
1-1 and 1-2

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Major General, United States Army
The Adjutant General

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CHANGE No. 7

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC 14 July 1975

#### Operator's, Organizational, and Direct Support

**Maintenance Manual** 

(Including Repair Parts List)

REFRIGERATOR, PREFABRICATED; PANEL TYPE, W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932

#### TYPE 1, CLASS 1 and 11

600 cu ft., NSN 4110-00-269-5096 600J cu ft, NSN 4110-00-926-9544 1200 cu ft, NSN 4110-00-926-4159 1800J cu ft., NSN 4110-00-168-1937 3000 cu ft, NSN 4110-00-264-6226 4000 cu ft, NSN 4110-00-269-5071

#### **TYPE 11, CLASS 1 AND 11**

400 cu ft, NSN 4110-00-618-8709 600 cu ft, NSN 4110-00-618-8710 1200 cu ft, NSN 4110-00-618-8712 1400 cu ft, NSN 4110-00-618-8713 1600 cu ft, NSN 4110-00-618-8714

#### Current as of 28 April 1975

TM 5-4110-204-13, 14 December 1966, is changed as follows:

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 2-1 and 2-2

 2-5 and 2-6
 2-5 and 2-6

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 4-3 and 4-4

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 D-3 through D-8

 D-13 through D-18
 D-13 through D-18

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#### TM 5-4110-204-13

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TM 5-4110-204-13 C 6

CHANGE No. 6

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 14 March 1975

### Operator's, Organizational, and Direct Support Maintenance Manual

REFRIGERATOR, PREFABRICATED, PANEL TYPE, W/O
REFRIGERATING EQUIPMENT, MILITARY SPECIFICATIONS MIL-R-10932
TYPE 1, CLASS I AND II

600 CU. FT. NSN 4110-00-269-5096, 1200 CU. FT. NSN 4110-00-926-4159 1800J CU. FT. NSN 4110-00-168-1937, 600J CU. FT. NSN 4110-00-926-9544 1800 CU. FT. NSN 4110-00-057-0321,4000 CU. FT. NSN 4110-00-269-5071 3000 CU. FT. NSN 4110-00-264-6226

TYPE 1, CLASS I AND II

400 CU. FT. NSN 4110-00-618-8709, 800 CU. FT. NSN 4110-00-618-8711 1400 CU. FT. NSN 4110-00-618-8713, 600 CU. FT. NSN 4110-00-618-8710 1200 CU. FT. NSN 4110-00-618-8712, 1600 CU. FT. NSN 4110-00-618-8714

TM 5-4110-204-13, 14 December 1966, is changed as follows:

The title is changed as shown above.

Page 2 of cover. Add the following warning to the list of safety precautions.

#### WARNING

The burning of polyurethane foams is dangerous. Due to the chemical composition of a polyurethane foam, toxic fumes are released when it is burned or heated. If it is burned or heated indoors, such as during a welding operation in its proximity, precautions should be taken to adequately ventilate the area. An exhaust system equivalent to that of a paint spray booth should be used. Air supplied respirators, approved by the National Institute for Occupational Safety and Health or the US Bureau of Mines, should be used for all welding in confined spaces and when ventilation is inadequate. Individuals who have chronic or recurrent respiratory conditions, including allergies and asthma, should not be employed in this type of environment.

#### By Order of the Secretary of the Army:

FRED C. WEYAND General, *United States Army* Chief of Staff

#### Official:

VERNE L. BOWERS Major General, United States Army The Adjutant General

#### Distribution:

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CHANGE No. 5

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 9 May 1974

Operator's Organizational, and
Direct Support Maintenance Manual
(Including Repair Parts List)
REFRIGERATOR PREFABRICATED; PANEL TYPE; W/O
REFRIGERATING EQUIPMENT; MILITARY SPECIFICATION
MIL-R-10932

TYPE 1, CLASS 1 AND II

600 CU FT, FSN 4110-00-260-096 1200 CU FT, FSN 4110-926-4159 1600J CU FT, FSN 4110-00-168-1937 600J CU FT, FSN 4110-926-9544 1600 CU FT, FSN 4110-057-0321 4000 CU FT, FSN 4110-269-5071 3000 CU FT, FSN 4110-264-6226

TYPE II, CLASS I and II

400 CU FT, FSN 4110-616-6709 600 CU FT, FSN 4110-616-6711 1400 CU FT, FSN 4110416-6713 600 CU FT, FSN 4110-616-6710 1200 CU FT, FSN 4110-618-6712 1600 CU FT, FSN 4110416-6714

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Insert Pagea
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#### **LIST OF EFFECTIVE PAGES**

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Dates of issue for original and changed pages are:

Original 0	14 December 1966	Change 6	14 March 1975
Change 1	8 September 1970	Change 7	14 July 1975
Change 2	11 October 1972	Change 8	29 March 1976
Change 3	15 March 1973	Change 9	26 February 1982
Change 4	28 September 1973	Change 10	7 October 1983
Change 5	9 May 1974	Change 11	31 July 2005

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TECHNICAL MANUAL No. 5-4110-204-13

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 14 December 1966

#### Operator's Organizational, and Direct Support Maintenance Manual (Including Repair Parts List)

# REFRIGERATOR, PREFABRICATED; PANEL TYPE; W/O REFRIGERATING EQUIPMENT; MILITARY SPECIFICATIONS MIL-R-10932

#### TYPE 1, CLASS I AND II

600 CU FT, FSN 4110-269-5096	600J CU FT, FSN 4110-926-9544
1200 CU FT, FSN 4110-926-4159	1800 CU FT, FSN 4110-057-0321
I 1800J CU FT, FSN 4110-168-1937	3000 CU FT, FSN 4110-2644226
	4000 CU FT, FSN 4110-269-5071

#### TYPE II, CLASS I AND II

400 CU FT, FSN 4110-618-8709	600 CU FT, FSN 4110-618-8710
800 CU FT, FSN 4110-618-8711	1200 CU FT, FSN 4110-618-8712
1400 CU FT, FSN 4110-618-8713	1600 CU FT, FSN 4110-618-8714

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This manual supersedesITM 5-4110-204-15, 9 June 1963 including all changes; TM 10-4110-203-25P, 8 March 1980; and TM 5-4110-204-25P July 1963 including all changes

## CHAPTER 1 INTRODUCTION

#### Section I. GENERAL

#### 1-1. Scope

- a. These instructions are published for use by personnel to whom the panel type refrigerator is issued. They provide information on the operation and maintenance of the equipment. Also included are descriptions of main units and their function in relationship to other components.
- b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of Items Troop Installed or Authorized for use with the equipment. Appendix C contains the maintenance allocation chart. The organizational maintenance repair parts and special tools are listed in appendix D.
- c. Numbers in parentheses on illustrations indicate quantity. Numbers preceding nomenclature callouts on illustrations indicate the preferred maintenance sequence.
- d. You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 2028-2 (Recommended Changes to Equipment Technical Manuals) located in the back of the manual and mail the form direct to Commander, US Army Troop Support Command, ATTN: AMSTS-MPP, 4300 Goodfellow Blvd., St. Louis, MO 63120. A reply will be furnished direct to you.
- e. To enable timely and effective evaluation, it is important that complete and comprehensive data be submitted on DA Form 2028, including the reason for submission if that fact is not self-evident.

#### 1-2. Record and Report Forms

For record and report forms applicable to operator, crew and organizational maintenance, refer to TM  $38\text{-}750_{\circ}$ 

#### Section il. DESCRIPTION AND DATA

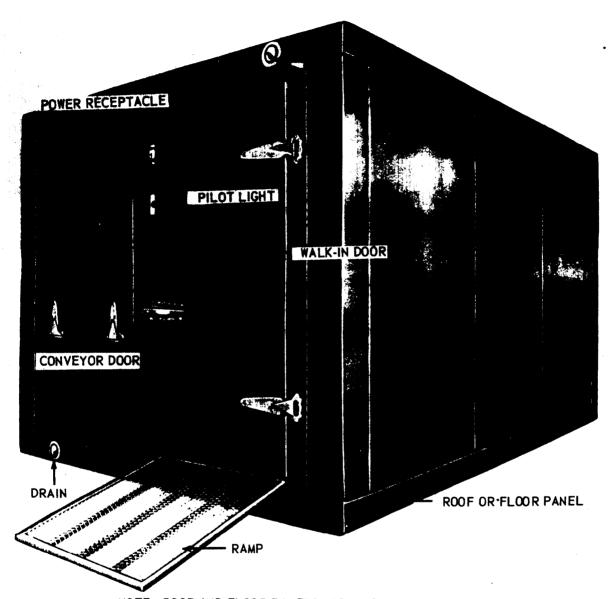
#### 1-3. Description

a. General. The prefabricated walk-in refrigerators (fig. 1-1 through 1-4) are assembled from interchangeable panels. There are two types of units: these are Type I and Type II. The Type I refrigerators are 600, 1200, 1800,3000 and 4000 cubic feet units, while the Type II refrigerators are 400, 600, 800, 1200, 1400, and 1600 cubic feet units. The Type I and Type 11 refrigerators are of the same construction and differ only in width. The Type I units are three panel or 12 ft. 95/8 in. wide, while the Type II units are two panel or 8ft.1123/32 in. wide. All panels with the exception of the roof and floor panels are interchangeable between the two type refrigerators. All prefabricated refrigerators are constructed in accordance with Military Specifica-

tion MIL-R-10932. The 600 cubic feet Type I unit and 400 and 600 cubic feet Type II units are single units while the units larger than 600 cubic feet are divided into compartments.

The Class 1 panels are constructed of a wooden frame with fiber glass insulation and are covered with sheet aluminim on both sides. The Class 2 panels are the same as Class 1 with exception that the exterior skin is steel and the interior skin is zinc coated, and not painted. The 1800J model refrigerators (Urethane) are constructed similar to the Type I Class 1 refrigerators with the addition of polyurethane foam in place of insulation.

b. Type I, 600 Cubic Feet Unit. The Type I, 600 cubic feet unit consists of one walk-in door panel with door, one conveyor panel with door,



NOTE: ROOF AND FLOOR PANELS ARE INTERCHANGEABLE

Figure 1-1. Single compartment refrigerator, right-front, three quarter view, 600 cu. ft. capacity.

one evaporator panel, seven wall panels, four corner panels, three roof and three floor panels. The roof and floor panels are interchangeable throughout each type-size, and wall panels are interchangeable throughout all types and sizes. This refrigerator is equipped with three hardwood floor racks, four shelving units, a thermometer, outside power receptacle, inside light, an outside indicating light and two floor drains.

#### **NOTE**

The conveyor panel with door is optional equipment. When not required, this panel is replaced with an additional standard wall.

- c. Type I, 1200 Cubic Feet Unit. The Type I, 1200 cubic feet unit is a single compartment refrigerator consisting of one walk-in door with ramp and canopy, one conveyor door, two evaporator panels, five roof panels, five floor panels and four corner panels. This unit is equipped with five hardwood floor racks, nine shelving units, a thermometer, outside power receptacle, inside light, outside indicating light and two floor drains.
- d. Type I, 1800 Cubic Feet Unit. The Type I, 1800 cubic feet unit is a two compartment refrigerator consisting of two walk-in doors, with ramps, and canopies, two conveyor doors, two evaporator panels,

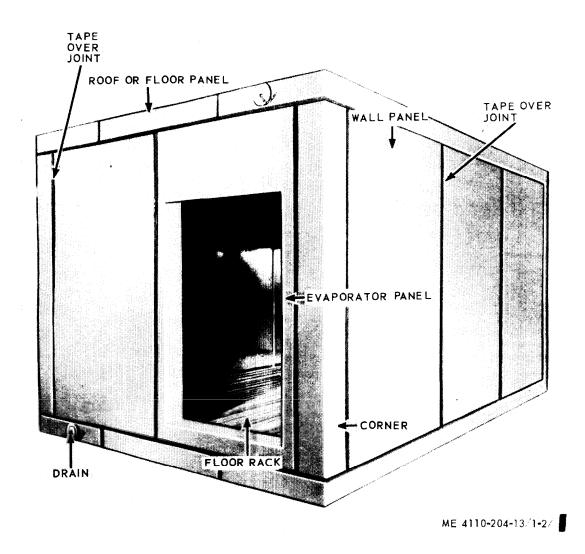


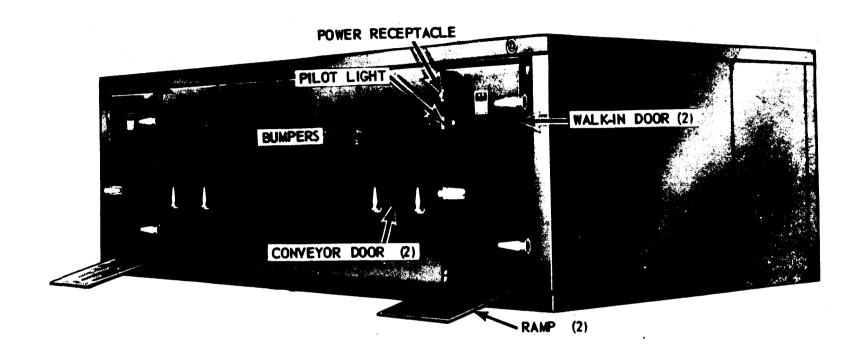
Figure 1-2. Single compartment refrigerator, left-rear, three-quarter view, 600 cu. ft. capacity.

#### TM 5-4110-204-13

seven roof panels, seven floor panels, four corner panels, and three partition panels. The 1800 cubic foot refrigerator is equipped with six hardwood floor racks, nine shelving units, two thermometers, two outside power receptacles, two inside lights, two outside indicating lights and four floor drains. The 1800J Model refrigerator (Urethane) is supplied with 14 hardwood floor racks and has no shelving units.

- e. Type 1,8000 Cubic Feet Unit. The Type I, 3000 cubic feet unit is a three-compartment refrigerator consisting of three walk-in doors with ramps and canopies, three conveyor doors, three evaporator panels, eleven roof panels, eleven floor panels, four corner panels, and six partition panels. The 3000 cubic feet refrigerator contains eleven hardwood floor racks, twenty-one shelving units, three thermometers, three outside power receptacles, three inside lights and four floor drains
- f. Type I, 4000 Cubic Feet Unit. The Type I, 4000 cubic feet unit is a four-compartment refrigerator consisting of four walk-in doors with ramps and canopies, four conveyor doors, four evaporator panels, fifteen roof panels, twenty-two wall panels and nine partition panels The 4,000 cubic feet refrigerator is equipped with fifteen hardwood floor racks, thirty shelving units, four thermometers, four outside power receptacles, three inside lights and four floor drains.
- g. Type II, 400 Cubic Feet Unit. The Type II, 400 cubic feet unit is a single-compartment refrigerator consisting of one walk-in door panel with door, one ramp and canopy, two evaporator panels, five standard wall panels, three floor panels, three ceiling

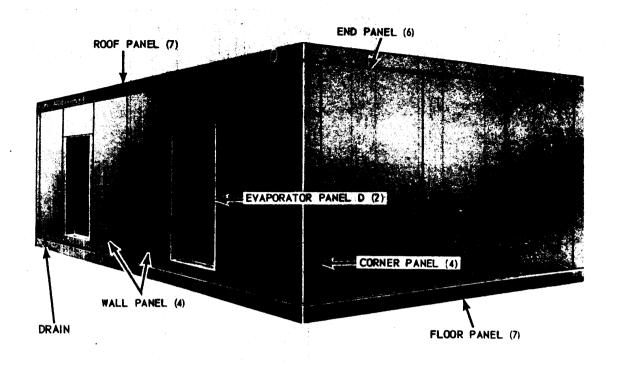
- panels and four corner panels. The 400 cubic feet refrigerator is equipped with three hardwood floor racks, three shelving units, a thermometer, an outside power receptacle, an inside light, an indicating light, and a floor drain.
- h. Type II, 600 Cubic Feet Unit. The Type H, 600 cubic feet unit is a single-compartment refrigerator consisting of one walk-in door panel with door, one ramp and canopy, two unit cooler panels, seven standard wall panels, four floor panels, four ceiling panels, and four comer panels. The 600 cubic feet refrigerator is equipped with four hardwood floor racks, four shelving units, a thermometer, outside power receptacle, inside light, an indicating light, and two floor drains.
- i. Type II, 800 Cubic Feet Unit. The Type II, 800 cubic feet unit is a two-compartment refrigerator consisting of two walk-indoor panels with doors, two ramps, two canopies, four unit cooler panels, six standard wall panels, five ceiling panels, five floor panels, four corner panels and two partition panels. This 600 cubic feet refrigerator is equipped with five hardwood floor racks, ten shelving units, two thermometers, two outside power recep-



NOTE: ROOF AND FLOOR PANELS ARE INTERCHANGEABLE.

ME 4110-204-13/1-3 C2

Figure 1-3. Double compartment refrigerator, right front, three-quarter view.



NOTE: ROOF AND FLOOR PANELS ARE INTERCHANGEABLE.

MEC 4110-204-13/1-4

Figure 1-4. Double compartment refrigerator, left-rear, three-quarter view

tacles, two inside lights, two indicating lights and two floor drains.

j. Type II, 1200 Cubic Feet Unit. The Type II, 1200 cubic feet unit is a three compartment refrigerator consisting of three walk-in door panels with doors, three ramps, three canopies, six unit cooler panels, eight standard wall panels, seven ceiling panels, seven floor panels, four corner panels and six partition panels. This 1200 cubic feet refrigerator is equipped with seven hardwood floor racks, nine shelving units, three thermometers, three outside power receptacles, three inside lights, three indicating lights and two floor drains.

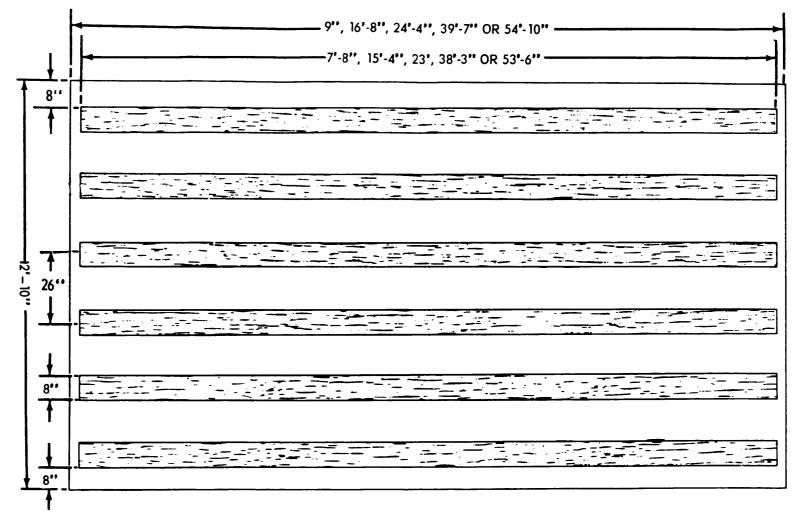
k. Type II, 1400 Cubic Feet Unit. The Type 11, 1400 cubic feet unit is a three compartment refrigerator consisting of three walk-in door panels with doors, three ramps, three canopies, six unit cooler panels, ten standard wall panels, eight ceiling panels, eight floor panels, four corner panels and for partition panels. This 1400

cubic feet refrigerator is equipped with eight hardwood floor racks, ten shelving units, three thermometers, three outside power receptacles, three inside lights, three indicating lights and two floor drains.

1. Type II, 1600 Cubic Feet Unit. The Type II, 1600 cubic feet unit is a three compartment refrigerator consisting of three walk-in door panels with doors, three ramps, three canopies, six unit cooler panels, eleven standard wall panels, nine ceiling panels, nine floor panels, four corner panels and four partition panels. This 1600 cubic feet refrigerator is equipped with nine hardwood floor racks, 12 shelving units, three thermometers, three outside power receptacles, three inside lights, three indicating lights and two floor drains.

#### 1-4. Identification and Tabulated Data

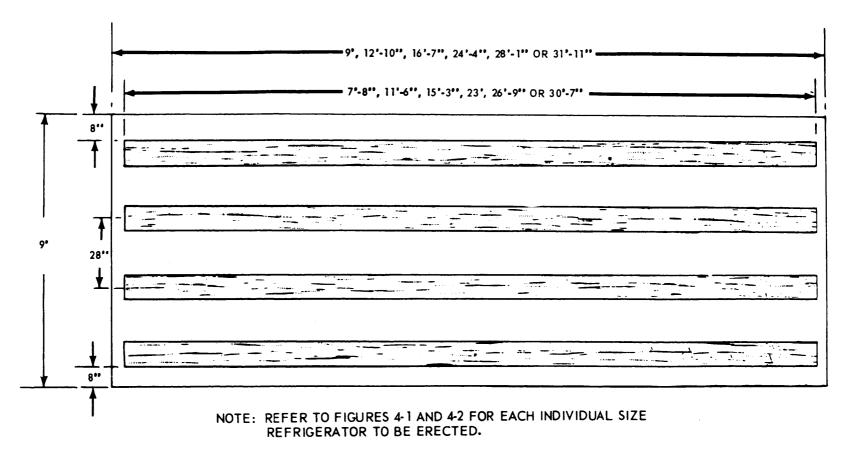
a. Identification. An identification plate is mounted on the door of each walk-in door panel. There are from one to four door panels



NOTE: REFER TO FIGURES 4-1 AND 4-2 FOR EACH INDIVIDUAL SIZE REFRIGERATOR TO BE ERECTED.

MFC 4110-204-13/1-5

Figure 1-5. Base Plan, Type I refrigerators



MEC 4110-204-13/14

Figure 1-6. Base plan, Type II refrigerators

provided with refrigerators, depending on the size. Each identification plate specifies the nomenclature, manufacturer, class, model number and serial number.

- b. Tabulated Data.
  - (1) General, Due to the fact that this manual covers all sizes of the Type I and Type H refrigerators and that the prefabricated panels from which the units are assembled are manufactured
- by numerous manufacturers, (all panels are interchangeable between various manufacturers since they are all made from the same government drawings), the operator, crew or organizational maintenance personnel will refer to the identification plate on the door of the unit for information desired.
- (2) Base plan. Refer to figure 1-5 for

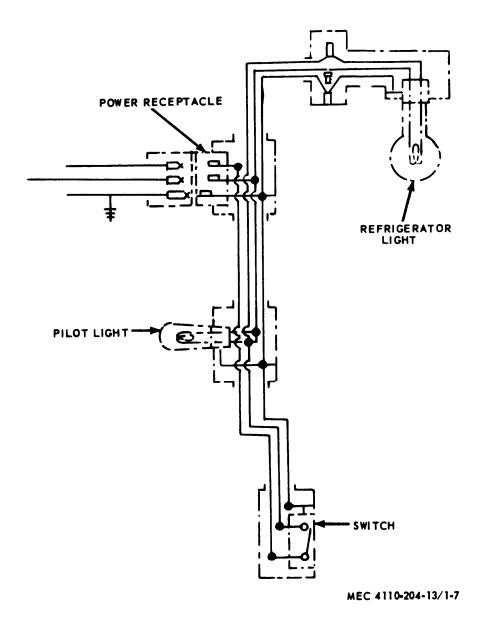


Figure 1-7. Practical wiring diagram

the base of the Type I refrigerator, and to figure 1-6 for the base plan far the Type II units.

#### NOTE

The cribbing used are 8 in. x 8 in. timbers for both the Type I and Type II refrigerators. The width of the base plans remain the same but the length will vary with refrigerator size as shown.

(3) Wiring *diagrams*. Refer to figure 1-7 for a practical wining diagram.

#### 1-5. Differences in Models

This manual covers the 600-cubic foot, 1200-cu. ft., 1800-cu. ft., 3000-cu. ft., and 4000-cu. ft., Type I, Class I and II refrigerator and the 400-cu. ft., 600-cu. ft., 800-cu. ft., 1200-c u. ft., 1400-cu. ft., and 1600-cu. ft., Type II, Class I refrigerators. The only unit differences are the various sizes as stated above and the design modifications incorporated in the 600-c u. ft., Type I units (FSN 4110-269-5096). In this type unit and the 1800J model (FSN 4110-287-3161), all panel gaskets we attached to the panels with staplels, thereby eliminating the gasket 'retainers and retainer screws used in all other models covered 'by this manual.

### CHAPTER 2 INSTALLATION AND OPERATING INSTRUCTIONS

#### Section I. SERVICE UPON RECEIPT OF EQUIPMENT

#### 2-1. Unloading the Equipment

- a. The crated panels and components of the prefabricated refrigerators may be shipped either by tractor-trailer or rail. The operator and organizational maintenance personnel will remove all tiedown cables, strapping, blocking, and the like, which secure the crated or skid-mounted components to the bed of the carrier. Refer to figure 2-1 and remove all tie-downs and blocking.
- b. Use a suitable lifting device of sufficient capacity, and remove the crated or skid-mounted components from the bed of the carrier.

#### 2-2. Unpacking the Refrigerator

Remove banding, crating, and blocking, being extremely careful not to damage the panels. If skid mounted, cut the strapping and remove cushioning and spacers. Unpack separately packed components from the container. Remove tape from drains, switches, and power receptacles.

#### 2-3. Inspecting and Servicing Equipment

- a. Inspecting.
- (1) Make a complete visual inspection of all component parts of the prefabricated refrigerator for loss of parts or damage which may have occurred during shipment.
- (2) Tighten all loose mounting hardware and replace damaged or missing parts. Inspect for a clogged drain strainer. Make certain all latches are in proper working condition.
- (3) Before placing any panel in position, make certain all panel hooks rotate freely and are rotated fully counterclockwise. Remove all foreign material from panel fastener recesses and make sure hooks are not damaged or bent. Lubricate as necessary.

- b. Servicing.
- (1) Perform the quarterly preventive maintenance services (para 3-7).
  - (2) Lubricate all latches and hinges (para 3-4).
- (3) Wipe all moisture from doors and door gassets.

#### 2-4. Installation and Setting-Up Instructions

- a. The refrigerator must be setup on a flat, level surface or platform capable of withstanding 250 pounds per square foot. It is desirable to pick a shaded area to increase the efficiency of the refrigerator.
- b. The refrigerator maybe setup inside or outside a shed or building.
- c. Set up the refrigerator in the numerical sequence as illustrated in figure 2-2 commencing with a corner panel A. Assembly may commence in both directions, ending with a corner panel A. It may be necessary to remove a corner panel to facilitate installation of the last wall panel B.
- d. Fasten the refrigerator panels together as instructed in figure 2-3.

### 2-5. Installation of Separately Packed Components

- a. Install the ramp in its proper location shown in figure 2-2.
- b. Install the floor racks in their proper position in the refrigerator.
- c. Refer to figure 2-4 and install the light as instructed.
- d. Refer to figure 2-4 and install the thermometer as instructed.
- e. Install tape over panel joints in figure 1-2. Tape should be installed on roof joints first and then the wall and floor.

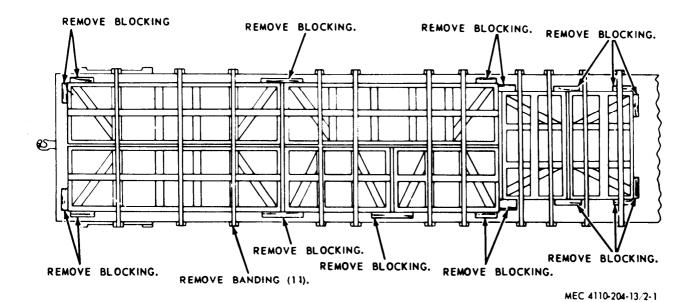


Figure 2-1. Blocking and tie-downs.

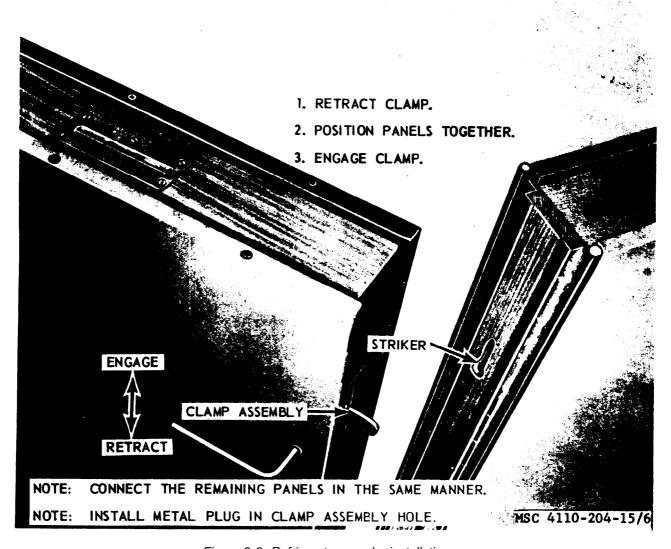
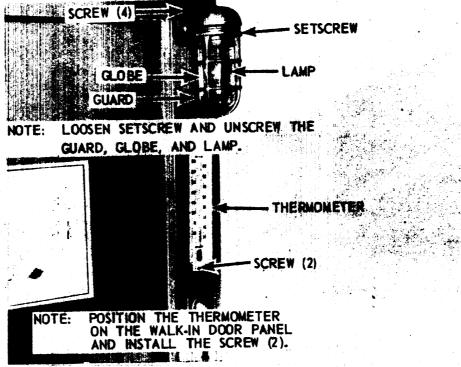
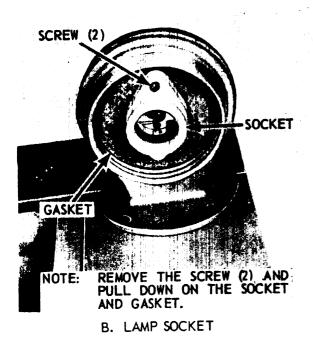


Figure 2-3. Refrigerator panels, installation

NOTE: STRAIGHTEN THE ELECTRICAL LEADS, POSITION THE WAREHOUSE LIGHT ASSEMBLY ON THE WALK IN DOOR PANEL, AND INSTALL THE SCREW (4).



A. LIGHT ASSEMBLY AND THERMOMETER





C. LIGHT HEAD

MEC 4110-204-13/2-4

Figure 2-4. Light assembly and thermometer installation

#### Section II. MOVEMENT TO A NEW WORKSITE

#### 2-6. Dismantling for Movement

a. Disconnect the external power supply cable.

#### NOTE

Remove tape from all joints before disassembly of panels.

- b. Refer to figure 2-4 and remove the light assembly in the reverse order of installation.
- c. Refer to figure 2-4 and remove the thermometer in the reverse order of installation.
- d. Refer to figure 2-3 and disconnect the refrigerator panels in the reverse order as shown.
- e. Refer to figure 2-2 and disassemble the refrigerator in the reverse order of assembly.
- f. Crate the components in the original shipping

crates, if available. For short distance, or if original shipping crates are not available, place the components in easily handled loads on skids. Place cushioning material and wooden spacers between surfaces that are easily damaged. Secure the skids with metal banding. Cushion the thermometers with cellulose wadding or other cushioning material. Pack the cushioned items with basic issue items in a suitable fiberboard container.

g. Refer to paragraph 2-1 and load and secure the refrigerator crates to the bed of the carrier.

#### 2-7. Reinstallation After Movement

Refer to paragraph 2-1 and reinstall the prefabricated refrigerator as instructed.

#### Section III. CONTROLS AND INSTRUMENTS

#### 2-8. General

This section describes, locates, illustrates, and furnishes the operator, crew, or organizational maintenance personnel sufficient information about the various controls and instruments for proper opera-

tion of the prefabricated refrigerator.

#### 2-9. Controls and Instruments

The purpose of the controls and instruments and the normal and maximum reading of the instruments are illustrated in figure 2-5.

#### Section IV. OPERATION OF EQUIPMENT

#### 2-10. General

The instructions in this section are published for the information and guidance of the personnel responsible for the operation of the prefabricated refrigerator warehouse.

#### 2-11. Operation Under Usual Conditions

- **a.** After the refrigerator is assembled and the refrigeration unit has been connected, the refrigerator is ready for operation. Refer to the appropriate technical manual covering the cooling unit used and opcrate the unit as instructed.
- b. Observe the thermometer regularly (fig. 2-5) to be sure the desired temperature is maintained.

#### NOTE

Be sure that the walk-in doors are closed securely when not in use to prevent heat from entering the refrigerator.

## 2-12. Operation Under Rainy or Humid Conditions

If the unit is installed outside, protect the hinges and latches by coating them with a waterproof substance, such as grease or heavy oil to prevent rust or corrosion. Use canvas or other water proof material to protect the unit as much as possible in order to reduce the rusting and corrosion action.

#### 2-13. Operation in Salt-water Areas

- a. Wash the unit frequently with clean, fresh water.
- b. Coat exposed metal surfaces with rust proofing material. Remove rust or corrosion immediately and apply paint and/or oil as applicable.

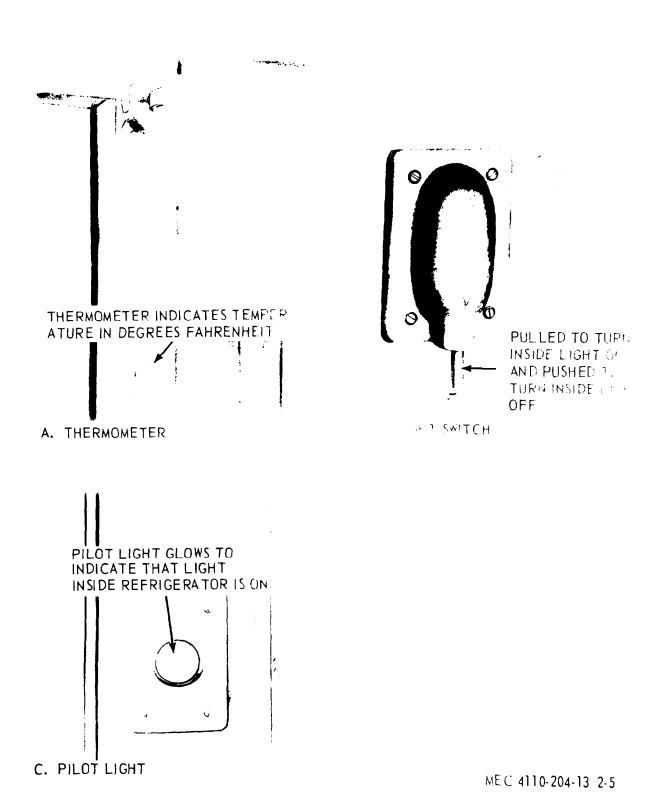


Figure 2-5. Controls and instruments.

#### **CHAPTER 3**

#### OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS

#### Section I. OPERATOR AND ORGANIZATIONAL MAINTENANCE TOOLS AND EQUIPMENT

#### 3-1. Special Took and Equipment

No special tools or equipment are required by the operator or organizational maintenance personnel for the maintenance of the prefabricated refrigerator warehouse.

#### 3-2. Basic Issue Tools and Equipment

Tools and repair parts issued with or auth-

orized for the prefabricated refrigerator are listed in the basic issue items list, Appendix B of this manual.

## 3-3. Organizational Maintenance Repair Parts

Organizational maintenance repair parts are listed and illustrated in Appendix D.

#### Section II. LUBRICATION AND PREVENTIVE MAINTENANCE SERVICES

#### 3-4. Lubrication

The prefabricated refrigerator requires lubrication of the door hinges and latch only. Clean the hinges and latch with an approved cleaning solvent and apply a lightweight oil sparingly as required.

## 3-5. Preventive Maintenance Services, General

To insure that the prefabricated refrigerator is ready for operation at all times, it must be inspected systematically, so that defects may be discovered and corrected before they result in serious damage or failure. The necessary preventive maintenance services to be performed are listed consecutively and are described in paragraphs 3-6 and 3-7. The item numbers indicate the sequence of minimum inspection requirements. Defects discovered during operation of the unit shall be noted for future correction, to be made as soon as operation has ceased. Stop operation immediately if a deficiency is noted during operation which would damage the equipment if operation were continued. All deficiencies and shortcomings will be recorded together with the corrective action taken on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) at the earliest possible opportunity.

#### 3-6. Daily Preventive Maintenance Services

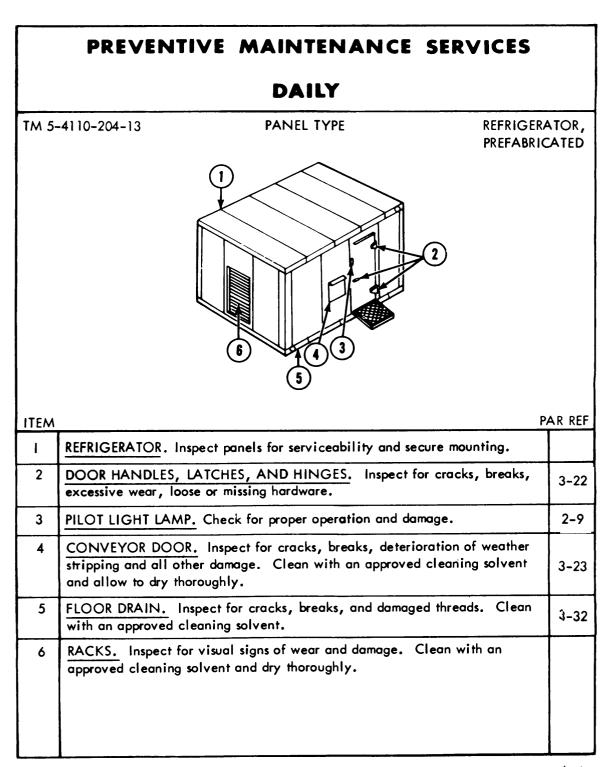
This paragraph contains an illustrated tabulated listing of preventive maintenance services which must be performed by the operator or crew. The item numbers are listed consecutively and indicate the sequence of minimum requirements. Refer to figure 3–1 for the daily preventive maintenance services.

## 3-7. Quarterly Preventive Maintenance Services

- a. This paragraph contains an illustrated tabulated listing of preventive maintenance services which must be performed by organizational maintenance personnel at quarterly intervals. A quarterly interval is equal to 3 calendar months or 250 hours of operation, whichever occurs first.
- b. The item numbers are listed consecutively and indicate the sequence of minimum requirements. Refer to figure 3–2 for the quarterly preventive maintenance services.

#### 3-8. General

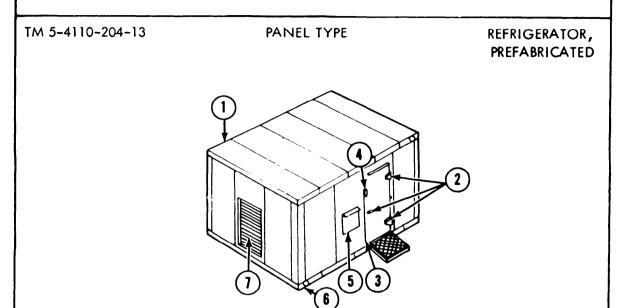
The instructions in this section are published for the information and guidance of the operator to maintain the prefabricated refrigerator.



MEC 4110-204-13/3-1

Figure 3–1. Daily preventive maintenance Services

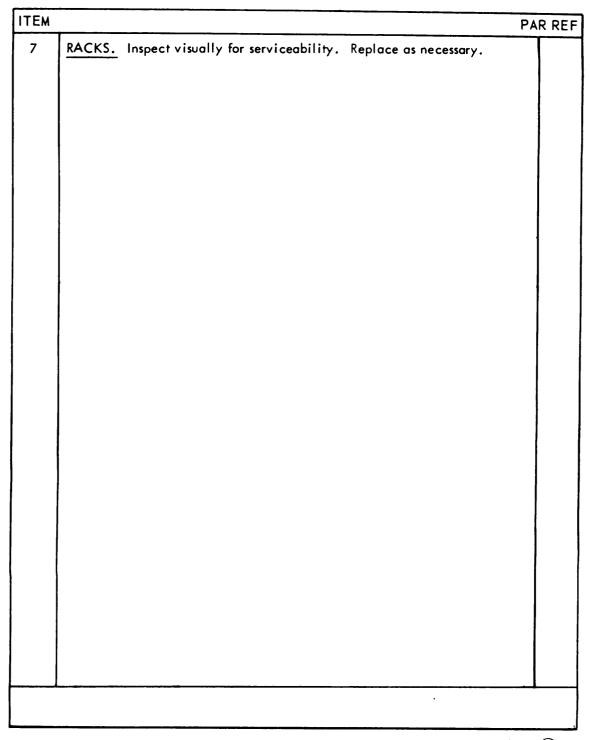
# PREVENTIVE MAINTENANCE SERVICES QUARTERLY



ITEM		AR REF
1	REFRIGERATOR. Inspect panels for serviceable condition and replace if necessary.	
2	DOOR HANDLES, LATCHES AND HINGES. Inspect for cracks, breaks, excessive wear, loose or missing hardware. Replace as necessary. Polish door handle. Oil hinges with OE periodically.	3-22
3	POWER RECEPTACLE. Inspect receptacle and cover for cracks and breaks. Replace as necessary. Clean all parts with an approved solvent and dry thoroughly.	3-17
4	PILOT LIGHT LAMP. Inspect for proper operation and damage. Replace as necessary. Clean cover and lens with an approved solvent and dry thoroughly.	3-18
5	CONVEYOR DOOR. Inspect door for cracks, breaks, weather stripping and a defective seal. Replace as necessary.	3-23
6	FLOOR DRAIN. Inspect for serviceability, secure mounting, and leaks.  Replace as necessary.	3-32

MEC 4110-204-13/3-2 (1)

Figure 3-20. Quarterly preventive maintenance services



MEC 4110-204-13/3-2 ②

Figure 3-2 —Continued

#### Section III. OPERATORS MAINTENANCE

#### 3-9. Refrigerator Light Lamp

- a. Removal. Refer to figure 3-3 and remove the refrigerator light lamp.
- b. Installation. Refer to figure 3-3 and install the refrigerator light lamp.

#### 3-10. Pilot Light Lamp

- a. Removal. Refer to figure 3-4 and remove the pilot light lamp.
- b. Installation. Refer to figure 34 and install the pilot light lamp.

#### 3-11. General

This section provides information useful in diagnosing and correcting unsatisfactory operation or failure of the refrigerator and its components. Each trouble symptom stated is followed by a list of probable causes of the trouble. The possible remedy recommended is described opposite the probable cause.

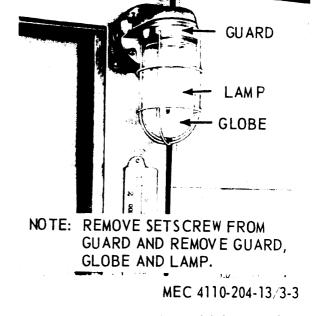
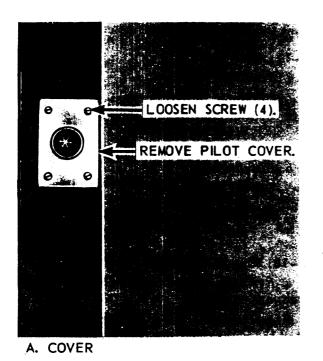
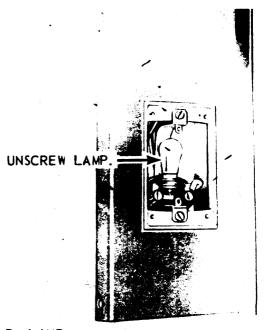


Figure 3-3. Refrigerator light lamp, removal and installation





B. LAMP

MEC 4110-204-13/3-4

Figure 3-4. Pilot light lamp, removal and installation

#### Section IV. TROUBLESHOOTING

#### 3-12. Lights Inoperative

Probable cause Defective switch	Possible remedy
Defective switch	Replace switch (pára.
	3-19).
Loose wiring connections	
	and repair wiring.
Defective receptacle	_Replace receptacle ( para.,
•	3-18) .
External power supply _	_Connect power supply.

#### 3-13. Drains Inoperative

Probable cause	Possible remedy
Clogged drain	Clean drain strainer.
Cap on drain outlet	Remove cap from outlet.
Drain pipe clogged	Remove strainer and clean drain pipe (para. 3-32).

## 3-14. Refrigerator Does Not Retain Proper Cooling Temperature

perature
Possible remedy
Adjust striker latch (para. 3-22) .
Replace gasket ( para. 3-28) .
Replace door ( para. 3-21 ).
Repair or replace panel (para. 3-30).

#### Section V. ELECTRICAL COMPONENTS

#### 3-15. General

The electrical components of refrigerator are the inside light, pilot light, light switch, and plug receptacle with the necessary wiring to complete the circuit.

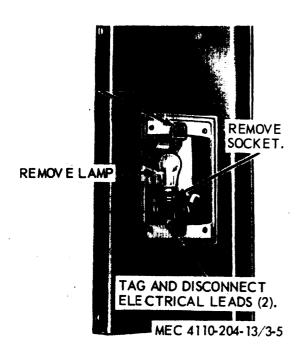


Figure 3-5. Pilot light, removal and installation

#### 3-16. Refrigerator Light Assembly

- a. Removal. Refer to figure 2-4 and remove the refrigerator light assembly.
- b. Installation. Refer to figure 2-4 and install the refrigerator light assembly.

#### 3-17. Pilot Light

- a. Removal.
  - (1) Refer to paragraph 3-10 and remove the pilot light cover.
  - (2) Refer to figure 3-5 and remove the pilot light socket.
- b. Installation.
  - (1) Refer to figure 3-5 and install the pilot light socket.
  - (2) Refer to paragraph 3-10 and install the pilot light cover.

#### 3-18. Plug Receptacle

- a. Removal. Refer to figure 3-6 and remove the plug receptacle.
- b. Installation. Refer to figure 3-6 and install the plug receptacle.

#### 3-19. Light Switch

- a. Removal. Refer to figure 3–7 and remove the light switch.
- b. Installation. Refer to figure 3–7 and install the light switch.

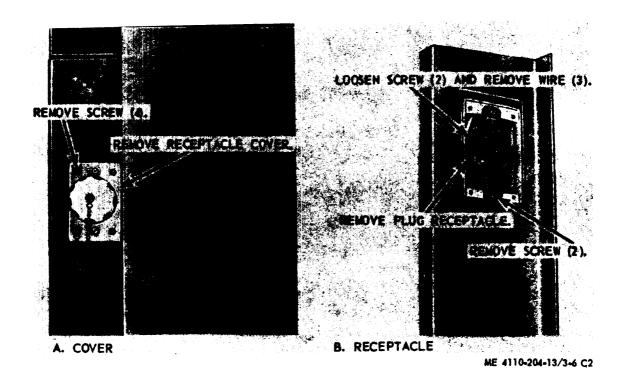


Figure 3-6. Plug receptacle, removal and installation.

#### Section VI. REFRIGERATOR COMPONENTS

#### 3-20. General

This section provides organizational maintenance personnel with Instruction neccesary for maintenance of the refrigerator components which consists of walk-in door panels, conveyor door panels, wall panels, corner panels, floor and roof panels, hardwood floor racks, and the necessary hardware to complete the refrigerator.

#### 3-21. Walk-In Door

- a. RemovaL Refer to figure 3-18, and remove the walk-in door.
- b. Installation. Refer to figure 3-8 and insall the walk-in door.

#### 3-22. Walk-In Door Handles and Latch

a. Removal. Refer to figure 3-9, and remove the walk-in door handles and latch.

- b. Installation. Refer to figure 3-9, and install the walk-in door handles and latch.
- c. Adjustment. Refer to figure 3-9, and adjust the stirker latch to provide an airtight fit when the door is closed.

#### 3~23. Conveyor Door

- a. Removal. Refer to figure 3-8, and remove the conveyor door.
- b. Installation. Refer to figure 3-8, and install the conveyor door.

#### 3-24. Conveyor Door Latch and Handle.

The 1800J model refriigerator conveyor door latch is identical to the walk-in door latch.

- a. Removal.
- (1) Refer to figure 3-10, and remove the convey door handle.
- (2) Refer to figure 3-11, and remove the conveyor door latch.

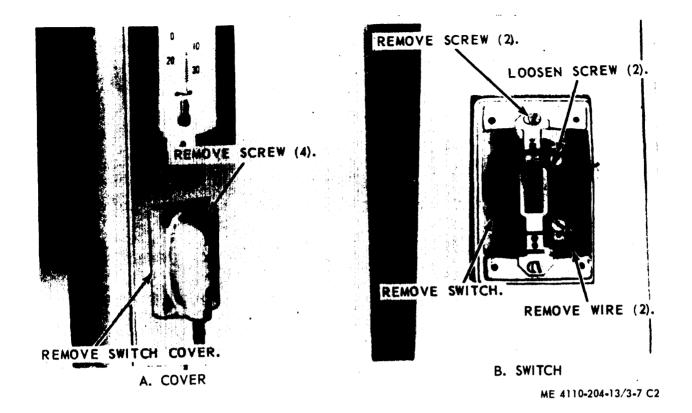


Figure 3-7. Light witch, removal and installation,

- b. Installation,
- (1) Refer to figure 3-11, and install the conveyor door latch.
- (2) Refer to figure 3-10, and install the conveyor door handle.

#### 3-25. Conveyor Door Roller

The 1800J model refrigeratar does not have a conveyor door roller.

- a. Removal. Refer to figure 3-10, and remove the conveyor door roller.
- b. Installation. Refer to figure 3-10, and install the conveyor door rollers.

#### 3-26. Conveyor Door Curtain

- a. Removal. Refer to figure 3-10, and remove the conveyor door curtain,
- b. Installation. Refer to figure 3-10, and install the conveyor door curtain.

#### 3-27. Conveyor Door Canopy

The 1800J model refrigerator does not have a door canopy.

- a. Removal. Refer to figure 3–12, and reremove the conveyor door canopy.
- b. Installation. Refer to figure 3–12, and install the conveyor door canopy.

#### **NOTE**

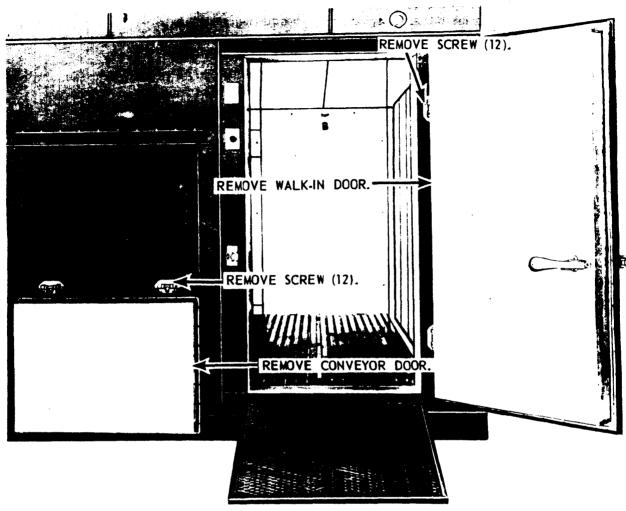
On the 600-cu. ft., Type I units (FSN 4110-269-5096) and the 1800J unit (FSN 4110-287-3161), all panel gaskets are attached with staples in place of retainers and retainer screws. To remove gaskets, pry out staples with a common screwdriver. Attach new gaskets with staples (0.63 x 1/2 x 5/8 in.) spaced 2 1/2 inches apart.

#### 3-28. Refrigerator Panel and Door Gaskets

- a. Removal. Refer to figure 3–13, and re move the panel and door gaskets.
- b. Installation. Refer to figure 3-13, and install the panel or door gaskets.

#### 3-8 Change 2

### NOTE: OPEN THE DOOR AND USE SUITABLE BLOCKING BEFORE REMOVING DOORS.



NOTE: REMOVE ALL REMAINING WALK-IN DOORS OR CONVEYOR DOORS IN THE SAME MANNER.

ME 4110-204-13, 3-

Figure 3-8. Walk-in and conveyor doors, removal and installation.

#### 3-29. Panel Clamp Assemblies

- a. Removal. Refer to figure 3-13, and remove the panel clamp assemblies.
- b. Installation. Refer to figure 3-13, and install the panel clamp assemblies.

#### 3-30. Refrigerator Panels

a. Removal. Refer to paragraph 2-6, and remove the refrigerator panels.

#### **NOTE**

It is only necessary to remove panels next to the one being replaced. The roof panels may be removed starting at either end. Wall disassembly may start at any corner.

- b. Repair. When the skin of the panels is cracked, torn, or punctured, thereby exposing the insulation, the refrigerator will not cool properly and must be repaired. Repair the panels as instructed below.
  - (1) Minor repairs.
- (a) Seal minor holes and punctures with sealing compound conforming to specification TT-S-230, Gum Grade, (8030-965-2397]
- (b) Minor rips or tears will be repaired by use of repair kit MIL-2-58047(CE) or MIL-R-19907C (2090-372-6064) as follows:
- (c) Roughen metal area around damaged area in order to remove paint and improve adherence properties of patching material on panel.

#### TM 5-4110-204-13

- (d) Apply epoxy mixture and patch material from repair kit as specified.
- (e) Apply tape over the entire patch area and the panel is ready for use.
- (f) For damaged areas up to 144 sq. in., follow above steps for use of repair kit, but apply epoxy to cloth, nylon, or like type material which has been cut to 2 to 3 inches greater in each direction of the hole to be covered.
  - (g) Affix the patch over the damaged area
- (h) Tape the patch in vertical and horizontal directions so that the patch will not move while curing. It will take approximately 2 hours for the patch to adhere properly.
  - (2) Major Repairs.
- (a) Obtain a metal plate large enough to cover the damaged area.
- (b) Apply a watertight sealer between the metal plate and the surface of the panel to be repaired.
- (c) Press plate tightly against the panel, and secure it with sheet metal screws.

#### **NOTE**

If the fiberglass insulation should become saturated with moisture due to leakage of the panel, the panel should be removed and the moisture baked out of it. If the panel is too saturated to dry out, the insulation must be replaced in the panel. The 1800J model refrigerator has polyurethane insulation.

c. *Installation* Refer to paragraph 2-4, and install the refrigerator panels.

#### 3-31. Thermometer

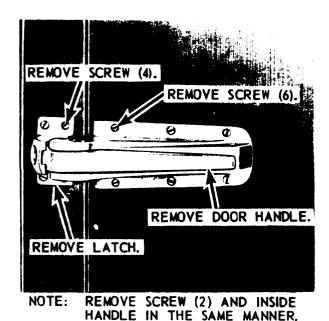
- a. Removal. Refer to paragraph 2-5, and remove the thermometer from the door panel.
- b. Installation Refer to paragraph 2-5 and install the thermometer on the door panel.

#### 3-32. Drain Strainer

- a. Removal. Refer to figure 3-14, and remove the drain strainer.
- b. Intstallation. Refer to figure 3-14, and install the drain strainer.

#### 3-33. Slide Botts

- a. RemovaL Remove the four screws that secure the slide bolts to the partition panels, and remove the slide bolts.
- b. Installtion Position the slide bolts on the partition panels, and secure them with four mounting screws.



A. HANDLES AND STRIKER LATCH

ADJUSTMENT SCREW

LOCKSCREW

STRIKER LATCH

NOTE: LOOSEN THE LOCKSCREW AND TURN ADJUSTMENT SCREW TO ADJUST THE STRIKER LATCH. AFTER ADJUSTMENT, TIGHTEN THE LOCKSCREW.

B. ADJUSTMENT

ME 4110-204-13/3-9 C5

Figure 3-9. Walk-in door ha miles and striker latch removal, installation and adjustment.

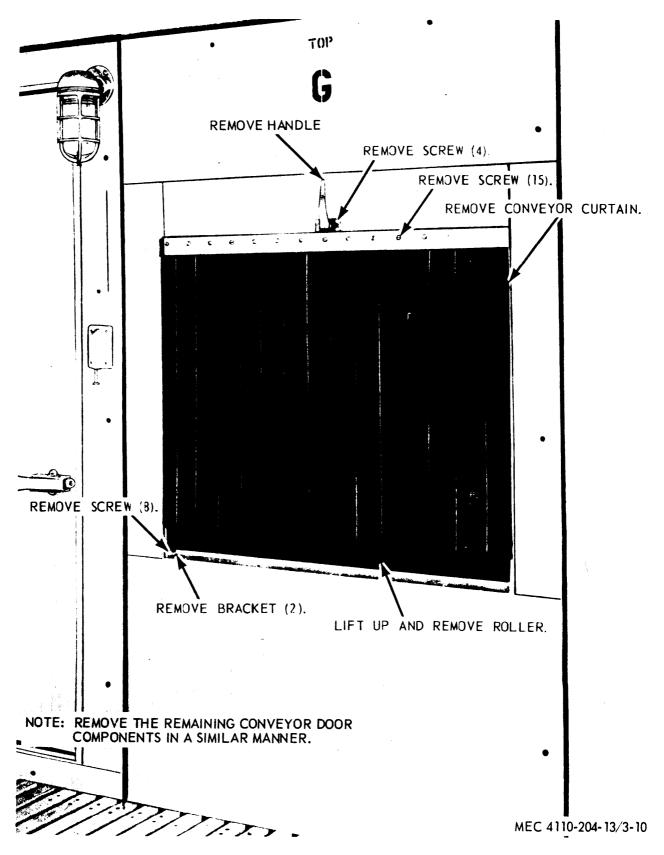


Figure 3-10. Conveyor door handle, rcller and curtain, removal and installation

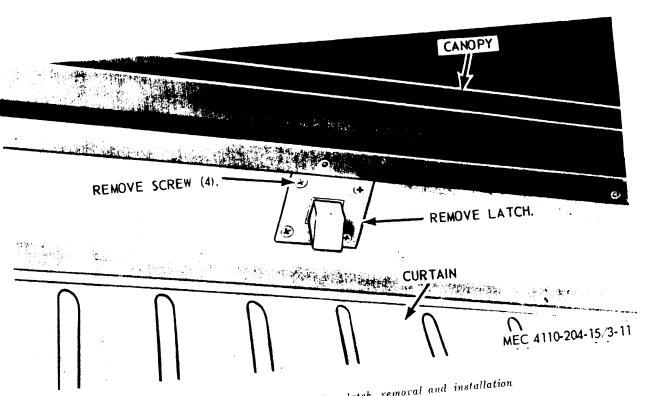


Figure 3-11. Conveyor door latch, removal and installation

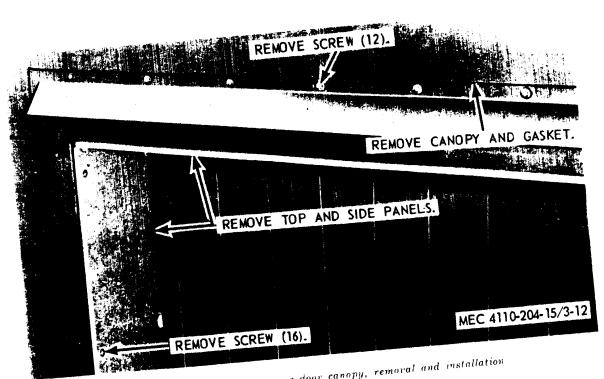


Figure 3-12. Conveyor door canopy, removal and installation

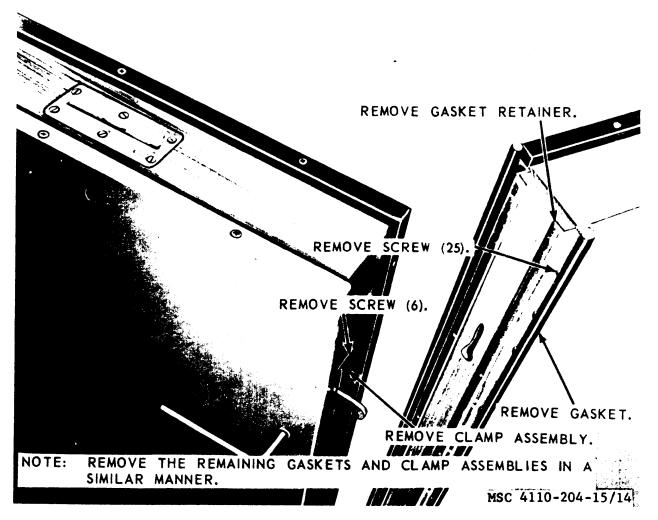


Figure 3–13, Refrigerator panel and door seals, and clamp assemblies, removal and installation

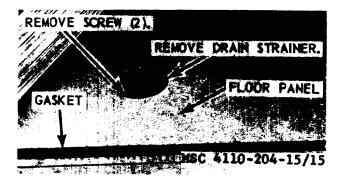


Figure 3-14. Drain strainer, removal and installation

#### CHAPTER 4 DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

#### Section I. GENERAL

#### 4-1. Scope

a. These instructions are published for the use of direct support maintenance personnel mainta.ining the panel type prefabricated refrigerator. They provide information on the maintenance of the equipment, which is beyond the scope of the tools, equipment, personnel, or supplies normally available to using organizations.

b. Report all equipment improvements recommendations as prescribed by TM 38-750.

#### 4-2. Record and Report Forms

of strip) Curtain, conveyor door

of strips)

Partition assembly

(Includes removal and installation

For record and report forms applicable to direct support maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46 which is carried by the operator, shall be kept in a canvas bag mounted on the equipment.

#### Section II. DESCRIPTION AND TABULATED DATA

#### 4-3. Description 600 cu ft Unit 8.0 1200 cu ft Unit 16.0 For a complete description of the prefabricated 1800 cu ft Unit 24.0 refrigerator see paragraph 1-3. 3000 cu ft Unit 40.0 4000 cu ft Unit 51.4 4-4. Tabulated Data Type II, Class 1: 400 cu ft Unit 5.3 a. General. This paragraph contains the time 600 cu ft Unit 8.0 standards and list of components necessary for 800 cu ft Unit 10.6 construction of the various size refrigerators. 1200 cu ft Unit 16.0 Refer to paragraph 1-4 for general tabulated data. 1400 cu ft Unit 18.6 1600 cu ft Unit b. The Standards. Table 4-1 lists the number of 21.2 Floor rack assembly (each) 0.7 man-hours required u rider normal conditions for Panel assembly (each) 2.1 various operations in the maintenance and repair Roller 0.2 of the prefabricated refrigerators. The man-hours Gasket 1.5 listed are not intended to be rigid standards. Under (Includes removal and installation

can be accomplished in considerably less time.

adverse conditions, the operation will take con-

siderable longer; but under ideal conditions with

highly skilled mechanics, most of the operations

Table 4-1. Time Standards		Clamp and striker assembly Barrel bolt assemblies	3.4 0.8
Removal and Replacement	Hours	Door panels	3.2
22 BODY CHASSIS OR HULL, AND ACCESSORY		Door latch and hinge assemblies	1.1
ITEMS		Lock, door latch	0.1
2210 Data Plates		Light assembly, pilot	0.9
Plates, data	0.2	Lamp	0.2
Plates, instruction	0.2	(Includes removal and installation	
80 STORAGE EQUIPMENT		of cover)	
8000 Refrigerator warehouse		Switch assembly	0.3
Warehouse assembly		Receptacle	0.4
Type I, Class I;		Light assembly, refrigerator	0.6

0.6

2.5

#### TM 5-4110-204-13

Lamp	0.9
(Includes removal and installation of guard and cover).	
Cover (Includes removal and installation of guard).	002
Gasket (Includes removal and installation of guard, cover and fittings).	0.4
Power receptacle assembly (Includes removal and installation of guard, cover gasket and wiring).	0.4
Cover and gasket (Includes removal and installation of guard).	0.2
Guard, power receptacle (Includes removal and installation of chain).	0.2
Thermometer	0.2
Strainer assembly (Includes removal and installation of plug).	1.8

Canopy 2.9 (Includes removal and installation of panels).
Ramp 0.06

c. Refrigerator Component Data. Tables 4-2 and 4-3 list the type and number of panels and other components necessary for construction of all sizes of the Type I and Type II, Class I refrigerators. Refer to figures 4-1 and 4-2 for nomenclature identifier calllouts listed in the tables.

#### NOTE

The ramp and conveyor panel with door are optional. When not required, the conveyor panel with door is replaced by a stantard wall panel. The 1800J Model Refrigerator is similar to the Type I, Class I refrigerator. For the 1800J unit, the romp, conveyor panel, and J Panel are optional; and when the conveyor panel is required, it replaces other standard wall panels.

Table 4-2. Refiigerator Component Data - Type I, Class I

Payel on	component nomenclature		Quantity Needed				
T uner or c	omponent nomenciature	600-cu ft.	1200-cu ft.	1800-cu ft.	4000-cu ft.		
Corner panel	(A)	4	4	4	4		
Standard wall panel	(B)	8	11	14	26		
Walk-in door panel w/door	(C)	1	1	2	4		
Evaporator panel	(D)	1	2	2	4		
Floor or ceiling panel, end, left	(EL)	2	2	2	2		
Floor or ceiling panel, end, right	(ER)	2	2	2	2		
Floor or ceiling panel, center	(F)	2	6	10	26		
Conveyor door panel w/door	(G)	1	1	2	4		
Partition panel	(H1) (H2) (H3)			1 each	3 each		
Canopy		1	1	2	4		
Ramp		1	1	2	4		
Light globe		1	1	2	4		
Thermometer		1	1	2	4		
Shelving unit		4	9	12	30		
Floor rack, 24 1/4 in. wide		4	4	4	4		
Floor rack, 41 3/4 in. wide		2	6	10	26		

Table 4-2.1. Refrigerator Component Data

Panel or component nomenclature			Number of panels and components used type I, class I refrigerators				
			1200 cu. ft.	1800 cu. ft.	3000 cu. ft.	4000 cu. ft.	
Corner panel	(A)	4	4	4	4	4	
Standard wall panel	(B)	7	10	12	17	22	
Walk-in door panel w/door	(C)	1	1	2	3	4	
Evaporator panel	(D)	1	1	2	3	4	
Floor or ceiling panel, end, left	(EL)	2	2	2	2	2	
Floor or ceiling panel, end, right	(ER)	2	2	2	2	2	
Floor or ceiling panel, center	(F)	2	6	10	18	28	
Conveyor door panel w/door	(G)	1	1	2	3	1 4	
Partition panel	(H1) (H2) (H3)		_	1 each	2 each	3 each	
Canopy	(	1	1	2	3	4	
Ramp		1	1	2	3	4	
Light globe		1 1	Î	2	3	4	
Thermometer		li	l î	2	3	1 4	
Shelving unit		1 4	9	12	21	30	
Floor rack, 241/4 in. wide		2	2	2	2	2	
Floor rack, 41-3/4 in. wide		l ĩ	3	5	9	13	
Tape 4"-OD B/PPP-T-60		1 roll	1 roll	2 rolls	3 rolls	4 rolls	

Table .4-2.1 Refrigerator Component Data - Continued

Panel or component	Number of panels or components used for type II, class I units						
nomenclature		400 cu. ft.	600 cu. ft.	800 cu. ft.	1200 cu. ft.	1400 cu. ft.	1600 cu. ft.
Corner panel	(A)	4	4	4	4	4	4
Standard wall panel	(B)	5	7	7	8	10	11
Walk-in door panel		1	j				
with door	(C)	1	1	1	3	3	3
Evaporator panel	(D)	2	2	4	5	5	6
Floor or ceiling panel,		1	l	ļ	1		
end, left	(KL)	2	2	2	2	2	2
Floor or ceiling panel,			ļ			ļ	1
end, right	(KR)	2	2	2	2	2	2
Floor or ceiling panel						j	Ì
center	$(\mathbf{M})$	2	4	6	10	12	14
Partition panel	(H1) (H3)	l		1 each	2 each	2 each	2 eacl
Canopy		1	1	1	3	3	3
Ramp		1	1	1	3	3	3
Light globe		1	1	2	3	3	3
Thermometer		1	1	2	3	3	3
Shelving unit		3	4	6	9	10	12
Floor rack 24-1/4 in wide		2	2	2	2	2	2
Floor rack 41-3/4 in. wide		1	2	3	5	6	7
Tape 4" -OD B/PPP-T-60		1 roll	1 roll	1 roll	1 roll	2 rolls	2 rolls

Table 4-3. Refrigerator Component Data Type II, Class I

Panel or component nomenclature		Quantity Needed						
		400-cu. ft.	600-cu. ft.	800-cu. ft.	1200-cu. ft.	1400-cu. ft.	1600-cu. ft.	
Corner panel	(A)	4	4	4	4	4	4	
Standard wall panel	(B)	5	7	7	8	10	11	
Walk-in door panel with door	(C)	1	1	1	3	3	3	
Evaporator panel	(D)	2	2	4	5	5	6	
Floor or ceiling panel, end, left	(KL)	2	2	2	2	2	2	
Floor or ceiling panel, end, right	(KR)	2	2	2	2	2	2	
Floor or ceiling panel, center	( <b>M</b> )	2	4	6	10	12	14	
Partition panel	(H1) (H3)		<b>'</b>	1 each	2 each	2 each	2 each	
Canopy		1	1	1	3	3	3	
Ramp		1	1	1	3	3	3	
Light Globe		1	1	2	3	3	3	
Thermometer		1	1	2	3	3	3	
Shelving unit		3	4	6	9	10	12	
Floor rack 24 1/4 in. wide		2	2	2	2	2	2	
Floor rack 41 3/4 in. wide		1	2	3	5	6	7	

#### **CHAPTER 5**

#### GENERAL MAINTENANCE INSTRUCTIONS

#### Section I. SPECIAL TOOLS AND EQUIPMENT

#### 5-1. Special Tools and Equipment

There are no special tools or equipment necessary to perform direct support maintenance on the panel type prefabricated refrigerators.

### 5-2. Direct Support Maintenance Repair Parts

Direct support maintenance repair parts are

listed and illustrated in Appendix D of this manual.

## 5-3. Specially Designed Tools and Equipment

There are no specially designed tools or equipment necessary to perform direct support maintenance on the panel type prefabricated refrigerator.

#### Section II. DIRECT SUPPORT MAINTENANCE INSTRUCTIONS

#### 5-4. General

Direct support maintenance personnel are responsible for replacement of the prefabricated refrigerators when it becomes necessary that the entire units be replaced. Replacement of the data plates which are located on the walk-in doors is also a responsibility of direct support maintenance.

#### 5-5. Prefabricated Refrigerator

- a. Removal. Refer to paragraphs 3-30 and 2-6 and remove all ceiling panels, walk-in door panels, conveyor door panels, evaporator panels, corner panels and floor panels.
- b. Installation. Refer to paragraphs 3-30 and 2-4 and install all floor panels, corner panels, evaporator panels, conveyor door panels, walk-in door panels and ceiling panels.

## APPENDIX A REFERENCES

#### A-1. Fire Protection

TB 5-4200-20010 Hand Portable Fire Extinguishers Approved for Army Users

#### A-2. Operating Instructions

it is a positioning into the distriction	
TM 5-4110-203-15	Refrigeration Unit, Panel Type, 9,000 BTU
TM 5-4110-209-15	Refrigeration Unit, Panel Type, 5,000 BTU
TM 5-4110-210-14	Refrigeration Unit, Panel Type, 5,000 BTU
TM 5-4110-212-15	Refrigeration Unit, Panel Type, 10,000 BTU
TM 5-4110-218-15	Refrigeration Unit, Panel Type, 10,000 BTU
TM 5-4110-221-14	Refrigeration Unit, Panel Type, 5,000 BTU
TM 5-4110-226-14	Refrigeration Unit, Panel Type, 10,000 BTU
TM 5-4110-227-14	Refrigeration Unit, Panel Type, 10,000 BTU
TM 5-4110-228-14	Refrigeration Unit, Panel Type, 10,000 BTU

# APPENDIX B BASIC ISSUE **ITEMS LIST AND ITEMS**TROOP INSTALLED OR AUTHORIZED

#### Section I. INTRODUCTION

#### B-I. Scope

This appendix lists items required by the operator for operation of the refrigerator.

#### B-2. General

This list is divided into the following sections

- a. Basic Issue Items List-Section II. Not applicable.
- b. Items Troop Installed or Authorized List-Section III. A list of items in alphabetical sequence, which at the discretion of the unit commander may accompany the refrigerator. These items are NOT SUBJECT TO TURN-IN with the refrigerator when evacuated.

#### B-3. Explanation of Columns

The following provides an explanation of columns in the tabular list of Basic Issue Items List, Sec-

tion II, and Items Troop Installed or Authorized, Section III.

- a. Source, Maintenance and Recoverability Code (SMR). Not applicable.
- b. Federal Stock Number. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.
- c. Description. This column indicates the Federal item name and any additional description of the item required.
- d. Unit of Measure (WM). A two character alphabetic abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.
- e. Quantify Furnished with Equipment (BILL). Not applicable.
- f. Quantify Authorized (Items Troop Installed or Authorized). This column indicates the quantity of the Item authorized to be used with the equipment.

#### Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

(1)	(2)	(3) Description		(4) Unit	(5) Qtyl auth
SMRi code	Federal stock number	Ref. No. & Mfr code	Usable on code	of meas	
PO PO PO PO PO	7520-559-9618 5120-223-7396 5120-517-8099 5120-234-8913 5120-198-5409	CASE, Maintenance and Operation Manuals PLIERS, Slip joint 6" SCREWDRIVER, Flat SCREWDRIVER, Cross WRENCH, Socket-head (15436) H16		EA EA EA EA	1 1 1 1 1

#### **APPENDIX C**

#### Section I. INTRODUCTION

#### The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Field - includes two columns, Unit maintenance and Direct Support maintenance. The Unit maintenance column is divided again into two more subcolumns, C for Operator or Crew and O for Unit maintenance.

Sustainment – includes two subcolumns, General Support (H) and Depot (D)

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC. The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

#### **Maintenance Functions**

Maintenance functions are limited to and defined as follows:

- 1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel.) This includes scheduled inspection and gagings and evaluation of cannon tubes.
- 2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- 3. Service. Operations required periodically to keep an item in proper operating condition, e.g. to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:
  - a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.
  - b. Repack. To return item to packing box after service and other maintenance operations.
  - c. Clean. To rid the item of contamination.

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- d. Touch up. To spot paint scratched or blistered surfaces.
- e. Mark. To restore obliterated identification.
- 4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or position, or by setting the operating characteristics to specified parameters.
- 5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance
- 6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- 7. Remove/install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- 8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.
- 9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
- 10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

#### NOTE

The following definitions are applicable to the "repair" maintenance function:

Services. Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly. The step by step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e. identified as maintenance significant).

Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

- 11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- 12. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

#### **Explanation of Columns in the MAC**

Column (1) Group Number. Column (1) lists Functional Group Code (FGC) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above).

Column (4) Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

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#### Field:

- C Operator or Crew maintenance
- O Unit maintenance
- F Direct Support maintenance

#### Sustainment:

- L Specialized Repair Activity
- H General Support maintenance
- D Depot maintenance

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#### NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE, and support special equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

#### **Explanation of Columns in the Tools and Test Equipment Requirements**

Column (1) – Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) – Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) - Nomenclature. Name or identification of the tool or test equipment.

Column (4) – National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) – Tool Number. The manufacturer's part number.

#### **Explanation of Columns in Remarks**

Column (1) – Remarks Code. The code recorded in column (6) of the MAC.

Column (2) – Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC."

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## Section II. MAINTENANCE ALLOCATION CHART FOR REFRIGERATOR, PREFABRICATED PANEL TYPE W/O REFRIGERATING EQUIPMENT

(1) GROUP	(2) COMPONENT/	(3) MAINTENANCE	(4) MAINTENANCE LEVEL				(5) TOOLS AND	(6) REMARKS	
NUMBER	ASSEMBLY	FUNCTION				SUSTAI	NMENT	-EQUIPMENT -REFERENCE	CODE
			U			GENERAL SUPPORT DEPOT		CODE	
			С	0	F	H	D	1	
22	BODY CHASSIS OR HULL, AND ACCESSORY ITEMS PLATES,DATA	Replace			0.5				
		rtopiado			0.0				
8000	STORAGE EQUIPMENT COMPONENTS REFRIGERATOR REFRIGERATOR	Inspect Service Replace Repair	*1 *1	*1	4.0				
	RACK ASSEMBLY, FLOOR	Replace		*1					А
	PANEL ASSEMBLIES, PRE- FABRICATED	Replace Repair		*1 *1					
	ROLLER; GASKET; CONVEYOR DOOR	Replace		*1					
	PARTITION ASSEMBLY	Replace Repair		*1 *1					
	CLAMP AND STRIKE ASSEMBLIES; BARREL BOLT	Replace		*1					
	DOOR PANELS; DOOR LATCH AND HINGE ASSEMBLIES	Service Replace	*1	*1					В
	LOCK, DOOR LATCH	Replace		*1					
	LIGHT ASSEMBLIES	Replace		*1					
	BULB (LAMP)	Replace	*1						
	SWITCH ASSEMBLY, LIGHT	Replace		*1					

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#### MAINTENANCE ALLOCATION CHART, CONT.

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINTENANCE FUNCTION					(5) TOOLS AND	(6) REMARKS CODE	
NOWIDER	ASSEMBLI	FUNCTION		FIEL	D	SUSTAINMENT		EQUIPMENT REFERENCE	
			UNIT		DIRECT SUPPORT	GENERAL SUPPORT	DEPOT	CODE	
			C	0	F	Н	D		
	COVER; GASKET; GUARD; LIGHT	Replace		*1					
	RECEPTACLES, POWER	Replace		*1					
	COVER; GASKET; GUARD; POWER RECEPTACLE	Replace		*1					
	THERMOMETER	Replace	*1						
	STRAINER ASSEMBLY, DRAIN	Service Replace	*1	*1					
	Canopy: ramp	Replace		*1					

#### NOTE

Original MAC did not show times, only level of authorized repair. \*1 indicates level of repair only, not the time to repair. Existing times for data plate and refrigerator replace functions were determined by equipment specialist.

## Section III. TOOLS AND TEST EQUIPMENT

(1) Tool or Test Equipment Reference Code	(2) Maintenance Level	(3) Nomenclature	(4) National Stock Number	(5) Tool Number
		No special tools or test equipment required		

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## Section IV. REMARKS

(1) REMARKS CODE	(2) REMARKS
А	Service of floor rack assembly. Includes removing, scrubbing with a soap and water solution, rinse and replace
В	Service of door latch and hinge assemblies includes lubricating, polishing with suitable metal cleaner

#### APPENDIX D

#### **REPAIR PARTS LIST**

#### Section I. INTRODUCTION

### D-1. Scope.

This index contains a list of repair parts and equipment required for the performance of organizational and direct support maintenance of the prefabricated refrigerator.

#### D-2. General.

This repair parts and special tools list is divided into three principal sections and a National stock number index.

- a. Section II: Prescribed Load Allowance List (PLA). A consolidated listing of repair parts quantitatively allocated for initial stockage at the organizational level. This is a mandatory minimum stockage allowance.
- b. Section III: Repair Parts List. A list of repair parts authorized for the performance of maintenance at organizational level.
- c. Section IV: Repair Parts List. A list of repair parts authorized for the performance of maintenance at the direct support level.
- d. Allowances are based on 5,000 hours operation per year.
- e. Part I applies to all models. Part II applies to type I models only. Part III applies to type H models only.

#### D-3. Explanation of Columns.

The following provides an explanation of columns in the tabular lists.

- a. Source, Maintenance, and Recoverability Codes.
  - (1) Source code indicates the selection status and source for the listed item. Source Codes used are:

## Code Explanation

P Applied to repair parts which are stocked in or supplied from DSA/GSA or Army supply system, and authorized for use at indicated maintenance categories.

- M Applied to repair parts which are not procured or stocked but are to be manufactured at indicated maintenance categories.
- X2 Applied to repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain them through cannibalization; if not obtainable through cannibalization, such repair parts will be requisitioned with supporting justification through normal supply channels.
- c Applied to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.
  - (2) Maintenance code indicates the lowest category of maintenance authorized to maintain the listed item. The maintenance level codes are:

#### Code Explanation

- Organizational Maintenance
- F Direct Support Maintenance
  - (3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expendable.
- b. National stock number indicates the National stock number for the item.
- c. Description indicates the Federal item name and a brief description of the item. A five-digit manufacturer's or other service code, and part number is included in parentheses for reference. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name.

- d. Unit of issue indicates the unit used as a basis of issue, e.g., ea, pr, ft, yd, etc.
- e. Quantity incorporated in unit pack indicates the actual quantity contained in the unit pack.
- f. Quantity incorporated in unit indicates the quantity of repair parts in an assembly. Where an asterisk appears, refer to Table 4—2 and figures 4–1 and 4—2 for quantities applicable to a particular model.
- g. Fifteen-Day organizational maintenance allowance.
  - (1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn is the quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.
  - (2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period, for the number of equipments supported. Units and organizations authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the appropriate density column to obtain the total quantity of repair parts authorized.
  - (3) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to US Army Troop Support and Aviation Materiel Readiness Command for exception or revision to the allowance list. The range of items authorized will be made by this Command based upon engineering experience, demand data, or TAERS information.
  - h. Thirty-Day DS Maintenance Allowance.
    - (1) The allowance columns are divided into three subcolumns. Indicated in each subcolumn is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required but not for initial stockage are

- identified with an asterisk in the allowance column.
- (2) The quantitative allowances for DS level of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

#### i. Illustration.

- (1) Figure number indicates the figure number of the illustration by which the item is shown.
- (2) Item or symbol number indicates the callout number used to reference the item in the illustration.

#### D-4. Special Information.

Quantity shown in quantity incorporated in unit reflects total for all units. Refer to figures 4—1 and 4–2 for quantity of specific unit.

#### D-5. How to Locate Repair Parts.

- a. When National stock number is unknown.
  - (1) First. Using the index of contents, determine the functional group or subgroup, i.e., engine, engine assembly, transmission, transmission assembly, within which the repair part belongs. This is necessary because separate illustrations are prepared for functional groups or subgroups, and listings are divided into functional groups.
  - (2) Second. Find the repair part illustration in the back of the publication covering the functional group or subgroup to which the repair part belongs.
  - (3) Third. Identify the repair part on the illustration figure and item number of the repair part.
  - (4) Fourth. Using the repair parts listing, find the functional group or subgroup of the repair part and the illustration figure and item number as noted on the illustration.
- b. When National stock number or manufacturer's part number is known.
  - (1) First. Use the index to locate the National stock number or manufactur-

er's part number. This index is arranged in alphanumeric sequence cross-referenced to page number and manufacturer's code.

(2) Second. Refer to the appropriate page in the parts listing. Locate the functional group or subgroup of the repair part and the illustration figure and item number as indicated in the last two columns of the parts listing.

# D-6. Abbreviations

dia	diameter
ea	. each
ft	. foot (feet)
id	. inside diameter
in	. inch(es)
lg	. long (length)
No	. number(s)

net						National Pipe Thread
the						thickness)
٧.						volt(s)
w .						watt(s)
W .						wide (width)

## **D-7. Federal Supply Codes**

53853	Mid-South Industries, Inc.
87308	Capital Bolt & Screw
16245	Senco
32761	Kason
74545	Hubbel
72764	Southern Electric
87518	Standard Keil
64467	Wexler
75915	Southern Radio Supply
74951	Jarrow

## Section II. PRESCRIBED LOAD ALLOWANCE

(1) Federal	Federal stock Description	(2) 15-Day Org. Maint. Allowance							
stock number	Description	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100				
		22	55	110	231				
	SWITCH	2	3	7	14				
	GASKET: vertical	4	6	12	26				
		8	20	40	84				
	GASKET: bottom (53853) 5806	8	20	40	84				
	GASKET: top (53853) 5803	8	20	40	84				

TM 5-4110-204-13

(1)	(2)		on				15	5-Day O	(6) rganizati nance alv		1	(7) Wus- ation
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig.	(b) Item No.
		Section 3 — Repair Organizationa Part I Group 80 — Storag Compo 8000 — Refrigerato	al Level e Equipment onents					020	2.50	317100	110.	140.
X20		Door, Walk-in	53853 90105		ea.	*	*	*	*	*	D3	1
МО		Gasket, Door, Fab	From		ft.						D3	4
МО		Rubber Sponge (18'4" required for	74951 PHD-5 each gasket)	02N-1			SEE	GRF	950	1		
PO		Hinge, Door	32761 1245		ea.	*	*	*	*	*	D3	7
PO		Latch Assembly	32761 K-56		ea.	*	*	*	*	*	D3	2
PO		Screw, Hinge, Mtg.	87308 C004		ea.	*	*	*	*	*	D3	8
PO		Screw, Latch, Mtg.	87308 C004		ea.	*	*	*	*	*	D3	3
X20		Panel A, Corner	53853 90113		ea.	*	*	*	*	*	D1	9
РО		Camlock	53853 90021		ea.	*	SEE	GRF	950	1	D4	12
мо		Gasket, Panel Fab From			ft.							
МО		Rubber Sponge (13' required for ea	74951 NX502 ch gasket)	?B-1			SEE	GRF	950	1		
РО		Screw, Camlock Mt	g 87308 C003		ea.	*	*	*	*	*	D4	13
X20		Panel B, Wall	53853 90114	ļ	ea.	*	*	*	*	*	D1	10
РО		Camlock	53853 90021		ea.	*	SEE	GRF	950	1	D4	12
MO		Gasket Panel Fab From			ft.	*					D4	6
МО		Rubber Sponge (13'2" required for	74951 NX502 each gasket)	B-1			SEE	GR	950	1		
РО		Screw, Camlock Mt	g 87308 C003		ea.	*	*	*	*	*	D4	13
X20		Panel C, Door	53853 90106		ea.	*	*	*	*	*	D1	8
X20		Canopy, Door	53853 90024		ea.	*	*	*	*	*	D1	6
РО		Camlock	53853 90021		ea.	*	*	*		*	D4	12

(1)	(2)	(3)	(4)	(5)			(6)		1	7)
			I I = ix	04:::		Day () <sub>t</sub>	ganizati "CC.	onal		lus- tion
SMR code	Federal National stock number	Description Usable- on	Unit of mean	Qty inc in	(2)	(b)	(c)	(d)	(a) Fig.	(b) Item
		Ref number & mfr code code	-	unit	1-5	6-20	21-50	il loo	No.	No
МО		Gasket, Panel Fab From	ft.							
МО		Rubber Sponge 32761 NX502B-1 (13" required for each gasket)			SE	GF	95	1		
PO	935-01-438-9943	Cap, Receptacle 74545 4884	ea.	•	•	•	Ħ	*	D4	22
PO	935-00-222-0072	Boot, Receptacle 74545 7440	ea	2					D4	21
PΟ		Receptacle, Female 74545 7484 Plug	ea.	*	*	•	•	¥	D4	21
PO		Receptacle, Male 74545 7486	ea.	2					D4	18
PO		Pilot Light 53853 477-6063- Assembly MDSI	ea.	•	*	*	•	*	D4	27
PO		Cover, Pilot Light 53853 25-1-SGS- MDSI	ea.	•	•	•	*	•	D4	27
PO		Vapor Proof Light 87518 VBB100PC Assembly	ea.	*	*	•	•	•	D4	4
PΟ		Screw Camlock Mtg.87308 COO3	ea.	•	•	•	•	¥	D 4	13
PO		Screw,Cover Mtg. 87308 COO6	ea.	*	•	•	*	*	D 4	20
PO		Screw, Light Mtg. 87308 COO5	ea.	•	•	*	•	•	D 4	5
PO		Screw, Pilot Light 87308 COO6	ea.	*	•	•	•	•	<b>1</b> D 4	23
PΟ		Screw, Receptacle 87308 COO7	ea.	•	•	*	*	*	<b>I</b> D 4	19
PO		Screw, Strike Mtg. 87308 COO4	ea.	•	*	•	•	•	D 4	25
PO		Switch 74545 1251	ea.	•	2	3	7	14	134	16
PO		Switch Cover 74545 1750	ea.	1	•	*	•	•	D 4	16
PO		Screw, Switch Mtg. 87308 COO6	ea.	*	•	•	•	B	<b>D</b> 4	17
PΟ		Thermometer 64467 7269	ea.	*	161	*	•	Ħ	ID 4	1 4
PO		Screw, Thermom- 87308 COO5 eter Mtg.	ea.	*	•	B	•	*	D4	15
x20		Panel D,Evaporator 53853 90115	ea.	•	NH	*	•	¥	D1	1
PO		Hex Wrench 37761 1145	ea.	ě	li-	#1	•	•	D1	1 9
PO		Camlock 53853 90021	ea.	16	3E1	SR	ll we my		D4	12

(1)	(2)		(3)		(4)	(5)		Day Or			ID	7) us-
SMR code	Federal/National stock number	D  Ref number & mfr code	escription	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d)	(a) Fig. No.	(b) Item
PO		Clip, Panel Wrench	75915		ea.	*	*	*	*	*	D1	18
МО		Gasket, Panel Fab From									D4	6
МО		Rubber Sponge (13' required for ea		NX502B-1 et)	ft.		SEE	GRI	950	1		
РО		Screw, Camlock Mtg.	87308	C003	ea.	. *	*	*	*	*	D4	13
PO		Screw, Clip Mtg.	87308	C005	ea.	*	*	*	*	*	D1	17
X20		Thermal Strip: Horizontal, Masonite, Fab From	53853	90110	ea.	*						
CO		Building Board, Hard Pressed, Vegetable Fiber (5½" x 38 9/16" re each Thermal Strip		or								
X20		Thermal Strip: Vertical, Masonite Fab From	53853	90111	ea.	*						
СО		Building Board, Hard Pressed, Vegetable Fiber (5½" x 55½ " requi Thermal Strip)	ired for	each								
X20		Panel H-1: Partition	53853	90133	ea.	*	*	*	*	*	D1	12
РО		Bolt, Barrel	53853	4842	ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806	ft.	*	SE	GR	99	<b>0</b> 1	D1	11
МО		Gasket, Top	53853	5803	ft.	*	SE	GRI	99	<b>0</b> 1	D1	4
МО		Gasket, Vertical	53853	5805	ft.	*	SEE	GR	99	01	D1	5
РО		Screw, Barrel Bolt Mtg.	87308	C001	ea.	*	*	*	*	*	D1	16
X20		Panel H-2: Partition	53853	90134	ea.	*	*	*	*	*	D1	14
PO		Bolt, Barrel	53853	4842	ea.	*	*	*	*	*	D1	15
PO		Gasket, Bottom	53853	5806	ft.	*	SEE	GR	99	ф1	D1	11

(1)	(2)		(3)	,		(4)	(5)	15	(Day Or			III	7) us- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description		sable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
МО		Gasket, Top	53853	5803		ft.	*	SEE	GRI	99	01	D1	4
МО		Gasket, Vertical	53853	5804		ft.	*	SEE	GRI	900	01	D1	13
РО		Screw, Barrel Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16
X20		Panel H-3: Partition	53853	90135		ea.	*	*	*	*	*	D1	12
РО		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806		ft.	*	SE	GR	990	1	D1	11
МО		Gasket, Top	53853	5803		ft.	*	SE	GRI	990	1	D1	4
MO		Gasket, Vertical	53853	5805		ft.	*	SE	GR	990	1	D1	5
РО		Screw, Barrel Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16
МО		Gasket, Vertical	53853	5804		ft.	*	SE	GR	990	)1	D1	13
		Group 95 — Gener Standardized Parts											
		9501 BULK MATI	ERIAL										
РО		Rubber Sponge	74951	NX502B	-1	ft.		*	*	*	*		
РО		Tape, P.S.	53853	6818		rl.	4						
		Group 99 — Parts 9901 — Parts Pecu than one application	liar with r	more									
МО		Gasket, Vertical	53853	5805		ft.		8	20	40	84		
РО		Gasket, Bottom	53853	5806		ft.		8	20	40	84		
МО		Gasket, Top	53853	5803		ft.		8	20	40	84		
РО		Camlock	53853	90021		ea.		*	*	*	*		
							ĺ						

(1)	(2)		(3)		(4)	(5)	15	-Day Or	6) ganizationance alv		п	7) Jus- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig.	(b) Item No.
		Section 3 — Repair	Parts List fo	or	ea.	unn	1-5	0.20	21.30	31-700	.40.	110.
		Part	П									
		Type I Assemblies			ea.							
		Group 80 — Storag		:	ea.							
		8000 - Refrigerato	or Warehouse	:								
X20		Floor Racks, Large	53853 900	)23	ea.	*	*	*	*	*	D7	2
X20		Floor, Racks, Small	53853 900	)22	ea.	*	*	*	*	*	D7	1
X20		Panel, CL, Left Ceiling	53853 901	118	ea.	*	*	*	*	*	D1	2
X20		Panel FL, Left Floor	53853 901	117	ea.	*	*	*	*	*	D1	2
PO		Camlock	53853 900	021	ea.	*	*	*	*	*	D4	12
РО		Drain, Inside	53853 90	131	ea.	*	*	*	*	*	D2	5
РО		Drain, Outside	53853 90	130	ea.	*	*	*	*	*	D2	10
МО		Gasket, Panel, Fab From				*					D4	6
МО		Rubber, Sponge 50'8" required for	74951 NX each gasket	502B-1	ft.	SE	E GR	P 95	01			
РО		Screw, Camlock Mtg.	87308 CO	03	ea.	*	*	*	*	*	D4	13
РО		Screw, Drain Mtg.	87308 CO	05	ea.	*	*	*	*	*	D2	9
РО		Screw, Strainer Mtg.	87308 CO	05	ea.	*	*	*	*	*	D2	4
РО		Strainer, Inside	53853 90	132	ea.	•	*	*	*	*	D2	3
X20		Panel, CR, Right Ceiling	53853 90	120	ea.	*	*	*	*	*	D1	2
X20		Panel, FR, Right	53853 90	119	ea.	*	*	*	*	*	D1	2

(1)	(2)		(3)		(4)	(5)		( Day Or, Mainten			11	7) llus- ition
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) Fig.	(b) Item No.
X20		Panel, FC Center Floor	53853	90122	ea.	*	*	*	*	*	D1	3
X20		Panel, CC Center Ceiling	53853	90121	ea.	*	*	*	*	*	D1	3
РО		Camlock	53853	90021	ea.	*	SEE	GRI	990	1	D4	12
МО		Gasket, Panel Fab From									D4	6
МО		Rubber, Sponge 50'8" required for		NX502B-1 cet	ft.		SEE	GRI	950	1		
РО		Screw, Camlock Mtg.	87308	C003	ea.	*	*	*	*	*	D4	13
X20		Panel A, Corner	53853	90113	ea.						D1	9
МО		Gasket, Panel, Fab From									D4	6
МО		Rubber, Sponge 13' required for ea		NX502B-1	ea.		SEE	GR	950	1		•
РО		Camlock	53853	90021	ea.	*					D4	12
X20		Panel B, Wall	53853	90114	ea.	*					D1	10
МО		Gasket, Panel Fab From				Re					D4	6
МО		Rubber Sponge 13'2" required for		NX502B-1 et	ft.		SEE	GR	950	1		
РО		Camlock	53853	90021	ea.	!	SEE	GR	990	1	D4	12
X20		Panel C, Door	53853 9	90106	ea.	*					D1	8
МО		Gasket, Panel Fab From				Ref	f				D4	6
МО		Rubber Sponge 13' required for ea		NX502B-1	ft.		SEE	GR	950	1		
РО		Camlock	53853	90021	ea.	*					D4	12
РО		Cover, Pilot Light	53853	25-1-SGS- MDSI	ea.						D4	24
PO		Pilot Light	53853	477-6063- MDSI	ea.					3	D4	27

(1)	(2)	(3) Description				(5)		(( Day Org Mainten			(7) Illus- tration		
SMR code	Federal/National stock number	E Ref number & mfr code	Description	Usable- on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.	
РО		Receptacle, Power	74545	7486	ea.						D4		
РО		Plug, Power	74545	7484	ea.						D4	27	
РО		Boot, Receptacle	74545	7440	ea.		i				D4		
РО		Switch	74545	1251	ea.						D4	16	
PO		Light, Vapor Proof	87518	VBB100PC	ea.						D4	4	
X20		Door, Walk-in	53853	90105	ea.						D3	1	
МО		Gasket, Door Fab From	74951	PHD502N-1	ft.						D3	4	
МО		Rubber Sponge 18'4" required for e	each gas	ket			SEE	GRF	950	1			
PO	;	Latch Assembly	32761	K-56	ea.						D3	2	
PO		Hinge: RH	32761	1245	ea.						D3	7	
X20		Canopy	53853	90024	ea.						D6	6	
X20		Panel D, Evaporator	r 53853	90115	ea.						D1	1	
МО		Gasket, Panel Fab From									D4	6	
МО		Rubber Sponge 13" required for each		NX502B-1 t	ft.		SEE	GRF	950	1			
PO		Camlock	53853	90021	ea.		SEE	GRP	990	1	D4	12	
РО		Clip, Wrench	75915	105002	ea.						D1	18	
PO		Wrench, Hexagon	32761	1145	ea.						D1	19	
X20		Panel, FL, Left Floor	53853	90117	ea.	:					D1	2	
X20		Panel, FR, Right Floor	53853	90119	ea.						D1	2	
X20		Panel, FC, Center Floor	53853	90122	ea.						D1	3	
МО		Gasket, Panel									D4	6	
MO		Rubber Sponge 50'8" required for e		NX502B-1 ket	ft.		SEE	GRF	950	1			

(1)	(2)		(3)			(4)	(5)	15		6)	onal		7) lus-
SMR	Federal 'National		Description		I	Unit	Qty			ganizationance alv		tra	tion
code	stock number	Ref number & mfr code	•		Usable - on code	of meas	inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
РО		Camlock	53853	90021		ea.		SEE	GRI	990	1	D4	12
PO		Drain, Inside	53853	90131		ea.						D2	5
РО		Drain, Outside	53853	90130		ea.						D2	10
РО		Strainer, Drain	53853	90132		ea.						D2	3
X20		Panel, CL, Left Ceiling	53853	90118		ea.						D1	2
X20		Panel, CR, Right Ceiling	53853	90120		ea.						D1	2
X20		Panel, CC, Center Ceiling	53853	90121		ea.						D1	3
MO		Gasket, Panel Fab From										D4	6
MO		Sponge Rubber 50'8" required for	74951 each gask		B-1	ft.		SEE	GRI	950	1		
РО		Camlock	53853	90021	!	ea.		SEE	GRI	990	1	D4	12
X20		Floor Rack, Large	53853	90023		ea.						D7	1
X20		Floor Rack, Small	53853	90022		ea.						D7	2
		Group 95 — Gener Stand	ral Use lardized Pa	arts		ea.							
		9501 – Bulk Mate	rial			ea.							
РО		Rubber, Sponge	74951	NX502	B-1	ft.		*	*	*	*		
		Group 99 — Parts I	Peculiar										
		9901 — Parts Pecu than one a				ea.							
РО		Camlock	53853	90021		ea.							
	!												
	l	I			l	· I		1	Į.		ı l		

(1)	(2)		(3)		(4)	(5)		() Day Orı Mainten			n	7) Jus- ition
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable- on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21·50	(d) 51-100	(a) Fig.	(b) Item No.
		Section 3 — Repai Orgar	r Parts List for nizational Level		ea.							
		Part II	I									
		TYPE II - ASS	EMBLIES									
		Group 80 – Stora Comp	ge Equipment conents		ea.							
		8000 - Refrigerat	or Warehouse									
X20		Floor Rack, Large	53853 90023	3	ea.		*	*	*	*	D7	2
X20		Floor Rack, Small	53853 90022	2	ea.		*	*	*	*	D7	1
X20		Floor Panel, FL	53853 90117	,	ea.		*	*	*	*	D1	2
МО		Gasket, Fab From										
МО		Rubber Sponge 50'8" required for	74951 NX50 each gasket	2B-1	ft.		SEE	GRI	950	)1		
PO		Camlock	53853 90021		ea.		SEE	GRI	990	1		
PO		Drain, Inside	53853 90131		ea.		*	*	*	*		
PO		Drain, Outside	53853 90130	)	ea.		*	*	*	*		
PO		Drain, Strainer	53853 90132	<u> </u>	ea.		*	*	*	*		
X20		Floor Panel, FR	53853 90119	)	ea.		*	*	*	*	D1	2
X20		Floor Panel, FC	53853 90112	!	ea.		*	*	*	*	D1	3
МО	1	Gasket, Fab From				:						
МО		Rubber Sponge 50'8" required for	74951 NX50 each gasket	2B-1	ft.		SEE	GRP	950	)1		
РО		Camlock	53853 90021		ea.		SEE	GRE	990	1		
		Group 95 — Gener Stand	ral Use ardized Parts		ea.							
		9501 – Bulk Mate	rial									
РО		Rubber Sponge	74951 NX50	2B-1	ft.		*	*	*	*		

(1)	(2)		(3)		(4)	(5)		-Day Or	(6) ganizatio		n	7) lus- tion
SMR code	Federal 'National stock number	Ref number & mfr code	Description	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) Fig. No.	(b) Item No.
		Group 99 — Parts	Peculiar									
		9901 — Parts Pecu than one	ıliar with mo application	ore	ea.							
РО		Camlock	53853 9	0021	ea.		*	*	*	*		
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TM 5-4110-204-13

(1)	(2)		(3)		(4) Unit	(5)		Day Org Mainten			T1	7) lus- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable - on code	of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
		Section 4 — Repair Direct	Parts List for Support Leve		ea.							
		Part I										
		Group 11 – Body ( and Ad	Chassis or Hul ccessory Items	I, s	ea.							
X20		Door, Walk-in	53853 9010	05	ea.		*	*	*	*	D3	1
МО		Gasket, Door Fab From									D3	4
МО		Rubber Sponge 18'4" required for	74951 PHD each gasket	)502N-1	ft.		SEE	GRI	950	1		
X20		Hinge, Door	32761 124	5	ea.		*	*	*	*	D3	7
PO		Latch Assembly	32761 K-56	6	ea.		*	*	*	*	D3	2
PO		Screw, Hinge Mtg.	87308 C00	4	ea.		*	*	*	*	D3	8
РО		Screw, Latch Mtg.	87308 C00	4	ea.		*	*	*	*	D3	3
X20		Panel A, Corner	53853 901	13	ea.		*	*	*	*	D1	9
РО		Camlock	53853 9002	21	ea.		SEE	GR	990	1	D4	12
МО		Gasket, Panel Fab From									D4	6
MO		Rubber Sponge 13' required for each	74951 NX5 ch gasket	502B-1	ft.		SEE	GRE	950	1		
PO		Screw, Camlock Mtg.	87308 C00	3			*	*	*	*	D4	13
X20		Panel B, Wall	53853 901	14	ea.		*	*	*	*	D1	10
РО		Camlock	53853 9003	21	ea.		SEE	GRF	990	1	D4	12
МО		Gasket Panel, Fab From									D4	6
MO		Rubber Sponge 13'2" required for	74951 NX5 each gasket	502B-1	ft.		SEE	GR	950	1		
РО		Screw, Camlock Mtg.	87308 C00	3	ea.		*	*	*	*	D4	13
X20		Panel C, Door	53853 9010	06	ea.		*	*	*	*	D1	8

(1)	(2)		(3)		(4)	(5)	15	-Day Or	6) ganizati iance alv		11	7) lus- tion
SMR code	Federal/National stock number	D Ref number & mfr code	escription	Usable on code	e- Uni of mea	inc	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) Fig. No.	(b) Item No.
X20		Canopy Door	53853	90024	ea	. *	*	*	*	*	D1	6
РО		Cap, Receptacle	74545	4884	ea	.   *	*	*	*	*	D4	22
PO		Boot, Receptacle	74545	7440	ea	. *	*	*	*	*	D4	21
PO		Receptacle	74545	7484	ea	.   *	*	*	*	*	D4	18
PO		Camlock	53853	90021	ea	.	SEE	GRI	990	1	D4	12
РО		Pilot Light Assembly	53853	477-6063- MDSI	ea	. *	*	*	*	*	D4	24
PO		Cover, Pilot Light	53853	25-1-SGS- MDSI	ea	. *	*	*	*	*	D4	24
РО		Light Assembly	87518	VBB100PC	ea	. *	*	*	*	*	D4	4
РО		Switch	74545	1251	ea	*	*	*	*	*	D4	16
РО		Switch, Cover	74545	1750	ea	. *	*	*	*	*	D4	26
РО		Thermometer	64467	7269	ea	*	*	*	*	*	D4	14
РО		Screw, Light Mtg.	87308	C005	ea	. *	*	*	*	*	D4	5
РО		Screw,Camlock Mtg.	87308	C003	ea	. *	*	*	*	*	D4	13
PO		Screw, Pilot Light	87308	C006	ea	*	*	*	*	*	D4	23
РО		Screw, Receptacle	87308	C007	ea	. *	*	*	*	*	D4	19
РО		Screw, Switch Mtg.	87308	C006	ea	*	*	*	*	*	D4	23
РО		Screw, Thermom- eter Mtg.	87308	C005	ea	*	*	*	*	*	D4	5
X20		Panel D, Evaporator	53853	90115	ea.	*	*	*	*	*	D1	1
PO		Wrench, Hexagon	32761	1145	ea.	*	*	*	*	*	D1	19
PO		Camlock	53853	90021	ea.	*	*	*	*	*	D4	12
PO		Clip, Panel Wrench	75915	105002	ea.	*	*	*	*	*	D1	18
MO		Gasket, Panel Fab From									D4	6
МО		Rubber Sponge 13' required for eac		NX502B-1	ft.		SE	GR	990	)1		
PO		Screw, Camlock	87308	C003	ea.						D4	13

(1)	(2)		(3)			(4)	(5)		Day Or	6) ganizatio ance alv		n	7) Jus- ition
SMR code	Federal/National stock number	Ref number & mfr code	Description		Usable- on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
РО		Screw, Clip Mtg.	87308	C005		ea.						D4	5
X20		Thermal Strip Horizontal Masonite, Fab From	53853	90110		ea.							
СО		Building Board, Hard Pressed, Vegetable Fiber 5" x 38" required f Thermal Strip	or each			ea.							
X20		Thermal Strip, Vertical Masonite Fab From	53853	90111		ea.		·					
со		Building Board Hard Pressed, Vegetable Fiber 5½" x 55½" require Thermal Strip	ed for ea	ach		ea.							
X20		Panel H-1 Partition	53853	90133		ea.	*	*	*	*	*	D1	12
РО		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806		ft.		SEE	GR	990	1	D1	11
МО		Gasket, Top	53853	5803		ft.	*	*	*	*	*	D1	4
мо		Gasket, Vertical	53853	5805		ft.	*	*	*	*	*	D1	5
PO		Screw, Barrel Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16
X20		Panel H-2 Partition	53853	90134		ea.	*	*	*	*	*	D1	14
PO		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
PO		Gasket, Bottom	53853	5806		ft.		SEE	GR	990	1	D1	11
МО		Gasket, Top	53853	5803		ft.	*	*	*	*	*	D1	4
МО		Gasket, Vertical	53853	5804		ft.	*	*	*	*	*	D1	13
РО		   Screw, Barrel   Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16

(1)	(2)		(3)		(4)	(5)		Day Or			n	7) lus- tion
SMR code	Federal National stock number	Ref number & mfr code	Description	Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) Fig.	(b) Item No.
X20		Panel H-3 Partition	53853	90135	ea.	*	#	*	*	*	D1	12
РО		Bolt, Barrel	53853	4842	ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806	ft.		SEE	GR	990	1	D1	11
МО		Gasket, Top	53853	5803	ft.	*	*	*	*	*	D1	4
МО		Gasket, Vertical	53853	5805	ft.	*	*	*	*	*	D1	5
РО		Screw, Barrel Bolt Mtg.	87308	C001	ea.	*	*	*	*	*	D1	16
МО		Gasket, Vertical	53853	5804	ft.		SEE	GRE	990	1	D1	13
		Group 95 — Gene Stand	ral Use ardized P	arts	ea.				I			
		9501 — Bulk Mate	rial		ea.		:					
РО		Rubber Sponge	74951	NX502B-1	ft.				:			
РО		Tape, PS	53853	6818	ea.							
		Group 99 – Parts	Peculiar									
		9901 — Part Pecul than one a			ea.							
МО		Gasket, Vertical	53853	5805	ft.		40	40	84	168		
РО		Gasket, Bottom	53853	5806	ft.		40	40	84	168		
МО		Gasket, Top	53853	5803	ft.		40	40	84	168	İ	
РО		Camlock	53853	90021	ea.		*	*	*	*		
				·								

TM 5-4110-204-13

eral/National stock number	Section 4 — Repair Direct:  Part I  TYPE I — ASSEM  Group 80 — Storage Compo  8000 — Refrigerato  Floor, Racks, Large Floor, Racks, Small  Panel, CL, Left Ceiling  Panel, FL, Left Floor  Camlock	Support I MBLIES E Equipronents r Wareh	nent ouse 90023 90022 90118	Usable- on code	ea. ea. ea. ea.	Qty inc in unit	(a) 1-5	(b) 6-20 * *	(c) 21-50	(d) 51-100	D7 D7 D1	(b) Item No.
	Part I  TYPE I - ASSEM  Group 80 - Storage Compo  8000 - Refrigerato  Floor, Racks, Large Floor, Racks, Small  Panel, CL, Left Ceiling  Panel, FL, Left Floor  Camlock	Support I MBLIES E Equipronents r Wareh 53853 53853 53853	nent ouse 90023 90022 90118		ea. ea. ea. ea.	*	*	*	*	*	D7	1 2
	TYPE I - ASSEM Group 80 - Storage Compose 8000 - Refrigerato Floor, Racks, Large Floor, Racks, Small Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	MBLIES e Equipronents r Wareh = 53853	ouse 90023 90022 90118 90117		ea. ea. ea.	*	*	*	*	*	D7	1 2
	Group 80 – Storage Composition 8000 – Refrigerato Floor, Racks, Large Floor, Racks, Small Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	Equipronents r Wareh 53853 53853 53853	ouse 90023 90022 90118 90117		ea. ea. ea.	*	*	*	*	*	D7	1 2
	Room Composition 1 Composition 1 Composition 1 Room Racks, Large Floor, Racks, Small Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	r Wareh 53853 53853 53853 53853	ouse 90023 90022 90118 90117		ea. ea. ea.	*	*	*	*	*	D7	1 2
	Floor, Racks, Large Floor, Racks, Small Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	53853 53853 53853 53853	90023 90022 90118 90117		ea. ea.	*	*	*	*	*	D7	1 2
	Floor, Racks, Small Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	53853 53853 53853	90022 90118 90117		ea.	*	*	*	*	*	D7	1 2
	Panel, CL, Left Ceiling Panel, FL, Left Floor Camlock	53853 53853	90118 90117		ea.	*	*	*	*	*	D1	2
	Ceiling Panel, FL, Left Floor Camlock	53853	90117									
	Floor Camlock				ea.	*	*	*			D1	
		53853	00004						_	*	D1	2
			90021		ea.		SEE	GRI	990	1	D4	12
	Drain, Inside	53853	90131		ea.	*	*	*	*	*	D2	5
	Drain, Outside	53853	90130		ea.	*	*	*	*	*	D2	10
	Strainer, Inside Drain	53853	90132		ea.	*	*	*	*	*	D2	3
	Gasket, Panel Fab From										D4	6
	Rubber Sponge 50'8" required for e			B-1	ft.		SEE	GRI	950	1		
	Screw, Camlock Mtg.	87308	C003		ea.	*	*	*	*	*	D4	13
	Screw, Drain Mtg. Mtg.	87308	C005		ea.	*	*	*	*	*	D2	9
	Screw, Strainer Mtg.	. 87308	C005		ea.	*	*	*	*	*	D2	4
	Panel, CR, Right Ceiling	53853	90120		ea.	*	*	*	*	*	D1	
	Panel, FR, Right Floor	53853	90119		ea.	*	*	*	*	*	D1	
		Gasket, Panel Fab From Rubber Sponge 50'8" required for e Screw, Camlock Mtg.  Screw, Drain Mtg. Mtg.  Screw, Strainer Mtg Panel, CR, Right Ceiling Panel, FR, Right	Gasket, Panel Fab From  Rubber Sponge 74951 50'8" required for each gast  Screw, Camlock 87308 Mtg.  Screw, Drain Mtg. 87308 Mtg.  Screw, Strainer Mtg. 87308  Panel, CR, 53853 Right Ceiling  Panel, FR, Right 53853	Gasket, Panel Fab From  Rubber Sponge 74951 NX502 50'8" required for each gasket  Screw, Camlock 87308 C003 Mtg.  Screw, Drain Mtg. 87308 C005 Mtg.  Screw, Strainer Mtg. 87308 C005  Panel, CR, 53853 90120 Right Ceiling  Panel, FR, Right 53853 90119	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 50'8" required for each gasket  Screw, Camlock 87308 C003 Mtg.  Screw, Drain Mtg. 87308 C005 Mtg.  Screw, Strainer Mtg. 87308 C005  Panel, CR, 53853 90120 Right Ceiling  Panel, FR, Right 53853 90119	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. 50'8" required for each gasket  Screw, Camlock 87308 C003 ea. Mtg.  Screw, Drain Mtg. 87308 C005 ea. Mtg.  Screw, Strainer Mtg. 87308 C005 ea. Panel, CR, 53853 90120 ea. Right Ceiling  Panel, FR, Right 53853 90119 ea.	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. 50'8" required for each gasket  Screw, Camlock 87308 C003 ea. *  Mtg.  Screw, Drain Mtg. 87308 C005 ea. *  Mtg.  Screw, Strainer Mtg. 87308 C005 ea. *  Panel, CR, 53853 90120 ea. *  Right Ceiling  Panel, FR, Right 53853 90119 ea. *	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. SEE 50'8" required for each gasket  Screw, Camlock 87308 C003 ea. * * Mtg.  Screw, Drain Mtg. 87308 C005 ea. * *  Mtg. Screw, Strainer Mtg. 87308 C005 ea. * *  Panel, CR, 53853 90120 ea. * *  Panel, FR, Right 53853 90119 ea. * *	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. SEE GRI 50'8" required for each gasket  Screw, Camlock 87308 C003 ea. * * * * * * * * * * * * * * * * * * *	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. SEE GRP 950 50'8" required for each gasket  Screw, Camlock 87308 C003 ea. * * * * * * * * * * * * * * * * * * *	Gasket, Panel Fab From  Rubber Sponge 74951 NX502B-1 ft. SEE GRP 9501  Screw, Camlock 87308 C003 ea. * * * * * * * * * * * * * * * * * * *	Gasket, Panel Fab From       Rubber Sponge 74951 NX502B-1 50'8" required for each gasket       ft.       SEE GRP 9501         Screw, Camlock 87308 C003 Mtg.       ea. * * * * * D4 * D2         Screw, Drain Mtg. 87308 C005 Mtg.       ea. * * * * * D2         Screw, Strainer Mtg. 87308 C005 Panel, CR, Right Ceiling       ea. * * * * * D1         Panel, FR, Right 53853 90119       ea. * * * * * D1

(1)	(2)		(3)			(4)	(5)	15	-Day Or	6) ganizati iance alv		li li	7) Uus- ition
SMR code	Federal 'National stock number	[ Ref number & mfr code	Description		Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
X20		Panel, FC, Center Floor	53853	90122		ea.	*	*	*	*	*	D1	3
X20		Panel, CC, Center Ceiling	53853	90121		ea.	*	*	*	*	*	D1	3
РО		Camlock	53853	90021		ea.		SEE	GRI	990	1	D4	12
МО		Gasket, Panel Fab From											
MO		Rubber Sponge 40'8" required for e		NX502 ket	B-1	ft.		SEE	GRI	950	1		
РО		Screw, Camlock Mtg.	87308	C003		ea.	*	*	*	*	*	D4	13
X20		Panel H-1 Partition	53853	90133		ea.	*	*	*	*	*	D1	12
X20		Panel H-2 Partition	53853	90134		ea.	*	*	*	*	*	D1	14
PO		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806		ft.	*	*	*	*	*	D1	11
МО		Gasket, Top	53853	5803		ft.	*	*	*	*	*	D1	4
МО		Gasket, Vertical	53853	5805		ft.	*	*	*	*	*	D1	5
PO		Screw, Barrel Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16
X20		Panel H-3 Partition	53853	90135		ea.	*	*	*	*	*	D1	12
PO		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
PO		Gasket, Bottom	53853	5806		ft.	*	*	*	*	*	D1	11
МО		Gasket, Top	53853	5803		ft.	*	*	*	*	*	D1	4
МО	-	Gasket, Vertical	53853	5805		ft.	*	*	*	*	*	D1	5
PO		Screw, Barrel Bolt Mtg.	87308	C001		ea.	*	*	*	*	*	D1	16
МО		Gasket, Vertical	53853	5804		ft.	*	*	*	*	*	D1	13
X20		Panel A, Corner	53853	90113	,	ea.		i				D1	9
МО		Gasket, Panel Fab From										D4	6

SMR								-Day Or <sub>i</sub> Mainten				llus- ition
code	Federal/National stock number	[ Ref number & mfr code	Description	Usable- on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
РО		Rubber Sponge 13' required for eac		NX502B-1	ft.		SEE	GRI	950	1		
РО		Camlock	53853	90021	ea.						D4	12
X20		Panel B, Wall	53853	90114	ea.						D1	10
МО		Gasket, Panel Fab From									D4	6
МО		Rubber Sponge 13'2" required for		NX502B-1 ket	ft.		SEE	GRI	950	)1		
PO		Camlock	53853	90021	ea.						D4	12
X20		Panel C, Door	53853	90106	ea.						D1	8
МО		Gasket, Panel Fab From									D4	6
МО		Rubber Sponge 13' required for each		NX502B-1	ft.		SEE	GR	950	1		
PO		Camlock	53853	90021	ea.						D4	12
PO		Cover, Pilot Light	53853	25-1-SGS- MDSI	ea.						D4	24
PO		Receptacle, Power	74545	7486	ea.						D4	
PO		Plug, Power	745 <b>4</b> 5	7484	ea.		3				D4	27
PO		Boot, Receptacle	74545	7440	ea.						D4	
PO		Switch	74545	1251	ea.						D4	16
РО		Vapor Proof Light	87518	VBB100PC	ea.						D4	4
X20		Door, Walk-in	53853	90105	ea.						D3	1
МО		Gasket, Door Fab From					·				D3	4
мо		Rubber Sponge 18'4" required for e		PHD502N-1 ket	ft.		SEE	GRF	950	1		
PO		Latch Assembly	32761	K-56	ea.						D3	2
РО		Hinge	32761	1245	ea.						D3	7
X20		Canopy	53853	90024	ea.						D6	6

(1)	(2)		(3)			(4)	(5)	15	-Day Or	6) ganizatio		[1	7) lus- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description		sable - on ode	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c)	(d) 51-100	(a) Fig. No.	(b) Item No.
X20		Panel D, Evaporato	r 53853	90115		ea.						D1	1
МО		Gasket, Panel Fab From										D4	6
МО		Rubber Sponge 13' required for eac		NX502B-	1	ft.		SEE	GRP	950	1		
РО		Camlock	53853	90021		ea.		SEE	GRP	990	1	D4	12
РО		Clip, Wrench	75915	105002		ea.						D1	18
PO		Wrench, Hexagon	32761	1145		ea.						D1	19
		Group 95 — Genera Standa	al Use ardized P	arts		ea.							
		9501 — Bulk Mater	ial			ea.							
РО		Rubber Sponge	74951	NX502B-1	1	ft.	*	*	*	*	*	i	
		Group 99 — Parts P	eculiar			ea.							
		9901 — Parts Peculi than one ap				ea.							
РО		Camlock	53853	90021		ea.	*	*	*	*	*		
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(1)	(2)		(3)		(4)	(5)	15	-Day Or Mainter			IJ	7) lus- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usable- on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
		Section 4 — Repair for Di	Parts List rect Suppor	rt Level	ea.							
		Part I	11									
		TYPE II – ASSI	EMBLIES									
		Group 80 – Storag	e Equipme	nt	ea.							
		8000 — Refrigerato	r Warehous	se	ea.							
X20		Floor Rack, Large	53853 90	0023	ea.	*	*	*	*	*	D7	2
X20		Floor Rack, Small	53853 90	0022	ea.	*	*	*	*	*	D7	1
X20		Floor Panel, FL	53853 90	0117	ea.	*	*	*	*	*	D1	2
MO		Gasket, Panel Fab From										
MO		Rubber Sponge 50'8" required for	74951 Ni each gasket		ft.		SEE	GRI	950	)1		
PO		Camlock	53853 90	0021	ea.		SE	GRI	990	1		
РО		Drain, Inside	53853 90	0131	ea.	*	*	*	*	*		
РО		Drain, Outside	53853 90	0130	ea.	*	*	*	*	*		
PO		Drain, Strainer	53853 90	0132	ea.	*	*	*	*	*		
X20		Floor Panel, FR	53853 90	)119	ea.	*	*	*	*	*	D1	2
X20		Floor Panel, FC	53853 90	)122	ea.	*	*	*	*	*	D1	3
MO		Gasket, Panel Fab From										
MO		Rubber Sponge 50'8" required for	74951 NX each gasket		ft.		SEE	GR	950	)1		
РО		Camlock	53853 90	0021	ea.		SE	GR	990	)1		
		Group 95 – Genera Standa	ıl Use ırdized Part	s	ea.							
		9501 – Bulk Mater	ial		ea.							
									:	ļ		

(1)	(2)		(3)			(4)	(5)	15	-Day Or	6) ganizatio	onal	IN	7) us- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description		Usable - on code	Unit of meas	Qty inc in unit	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
PO		Rubber Sponge	74951	NX502E	3-1	ft.	*	*	*	*	*		
		Group 99 — Parts	Peculiar			ea.							
		9901 — Parts Pecu				ea.							
РО		Camlock	53853	90021		ea.	*	*	*	*	*		
							ı						

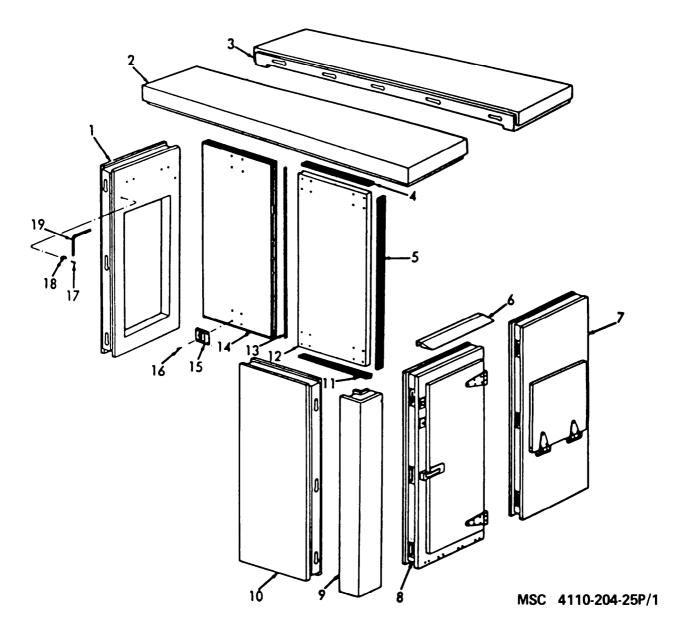


Figure 1. Compartment Panels INDEX TO PARTS, FIGURE 1

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1 2	8000 8000	PANEL D PANEL FL, FR, CR	8 CL, 9 10	8000 8000 8000	PANEL C PANEL A PANEL B	15	8000 8000 8000	PANEL H-3 BOLT SCREW
3 4	8000	PANEL FC, CC		8000	GASKET	17	8000	SCREW
5	8000 8000	GASKET GASKET	12 13	8000 8000	PANEL H-1 GASKET	18	8000 8000	CLIP ALLEN WRENCH
6 7	8000 8000	CANOPY PANELG						-

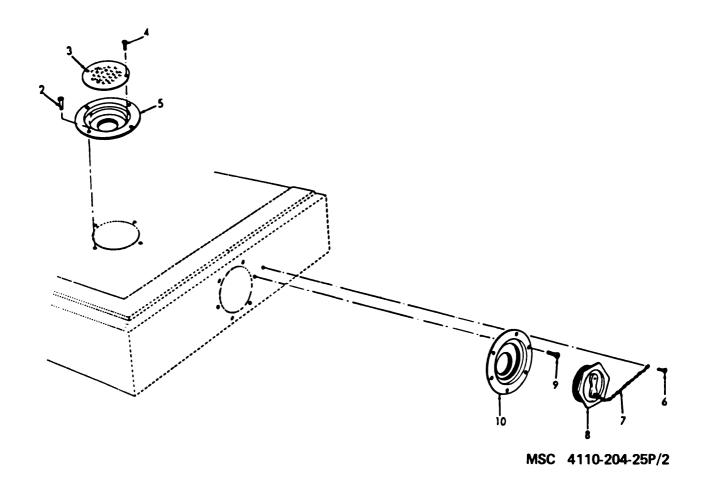


Figure 2. Floor Drain Components

INDEX TO PARTS, FIGURE 2

REF NO.	FUNCT GROUP	ITEM NAM E	REF NO.	FUNCT GROUP	ITEM NAME
			7	8000	CHAIN
2	8000	SCREW	8	8000	PLUG
3	8000	STRAINER	9	8000	SCREW
4	8000	SCREW	10	9000	DRAIN
5	8000	DRAIN	11	8000	GASKET
6	8000	SCREW			

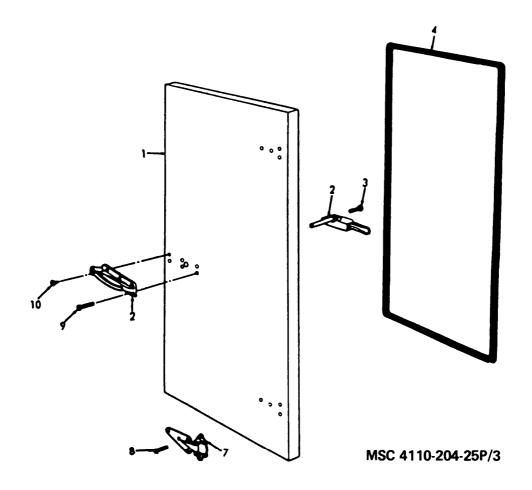


Figure 3. Walk-in Door, Latch, and Hinge

# INDEX TO PARTS, FIGURE 3

REF	FUNCT	ITEM	REF	FUNCT	ITEM
NO.	GROUP	NAME	NO.	GROUP	NAME
1	8000	DOOR			
1					
2	8000	LATCH AY	7	8000	HINGE
3	8000	SCREW	8	8000	SCREW
4	8000	GASKET	9	8000	SCREW
			10	8000	SCREW

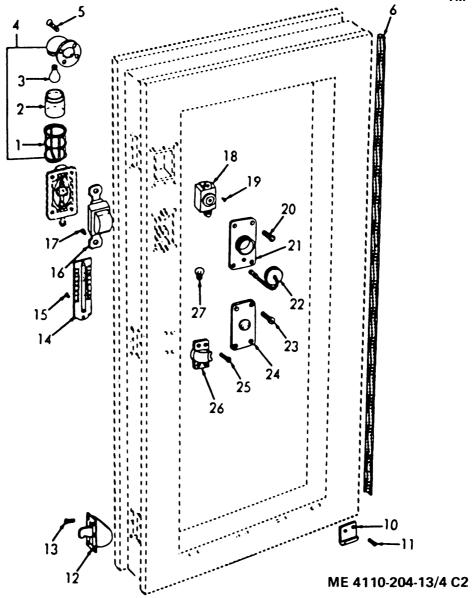


Figure 4. Panel C Components

# INDEX TO PARTS, FIGURE 4

REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAM E
1	8000	GUARD	10	8000	SUPPORT	19	8000	SCREW
2	8000	GLOBE	11	8000	SCREW	20	8000	SCREW
3	8000	LAMP	12	8000	CLAMP AY	21	8000	COVER
4	8000	LIGHT AY	13	8000	SCREW	22	8000	CAP
5	8000	SCREW	14	8000	THERMOMETER	23	8000	SCREW
6	8000	GASKET	15	8000	SCREW	24	8000	COVER
			16	8000	SWITCH	25	8000	SCREW
			17	8000	SCREW	26	8000	STRIKE
			18	8000	RECEPTACLE	27	8000	LIGHT

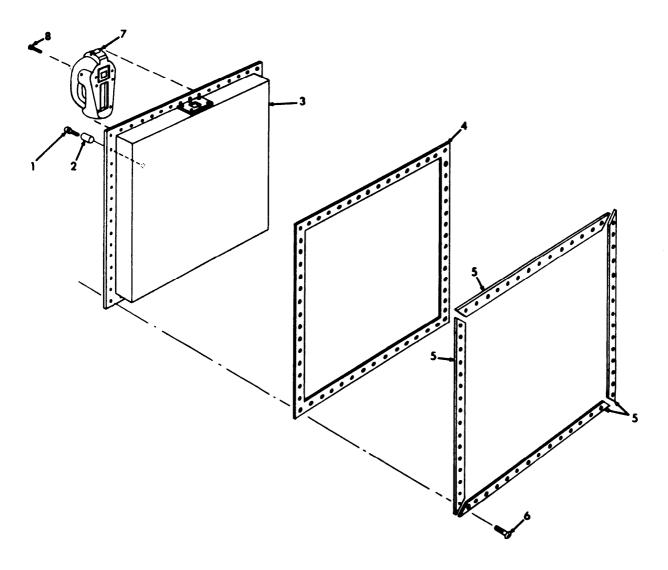


Figure 5. Conveyor Door.

## INDEX TO PARTS FIGURE 5

REF	ITEM	
NO.	NAME	
1	SCREW	
2	BUMPER	
3	DOOR	
4	GAS KET	
5	RETAINER	
6	SCREW	
7	LATCH	(1800J)
8	SCREW	(1800J)

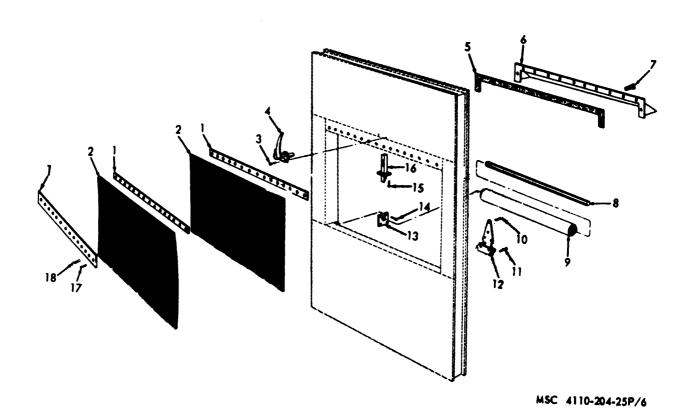


Figure 6. Panel G. INDEX TO PARTS, FIGURE 6

REF. FUNCT	ITEM	REF	FUNCT	ITEM
NO. GROUP	NAME	NO.	GROUP	NAME
8000 8000 3 8000 4 8000 5 8000 6 8000 7 8000 8 8000 9 8000	STRIP CURTAIN SCREW HANDLE GASKET CANOPY SCREW BAR ROLLER AY	10 11 12 13 14 15 16 <b>17</b> 18	8000 8000 8000 8000 8000 8000 8000 800	SCREW SCREW HINGE BRACKET SCREW SCREW LATCH SCREW SCREW

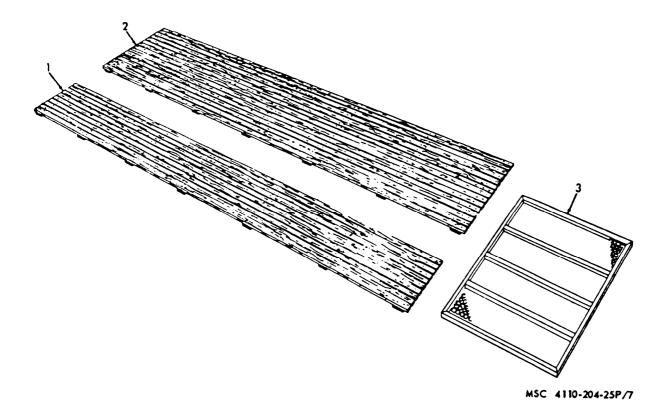


Figure 7. Floor Racks and Ramp.

INDEX TO PARTS, FIGURE 7

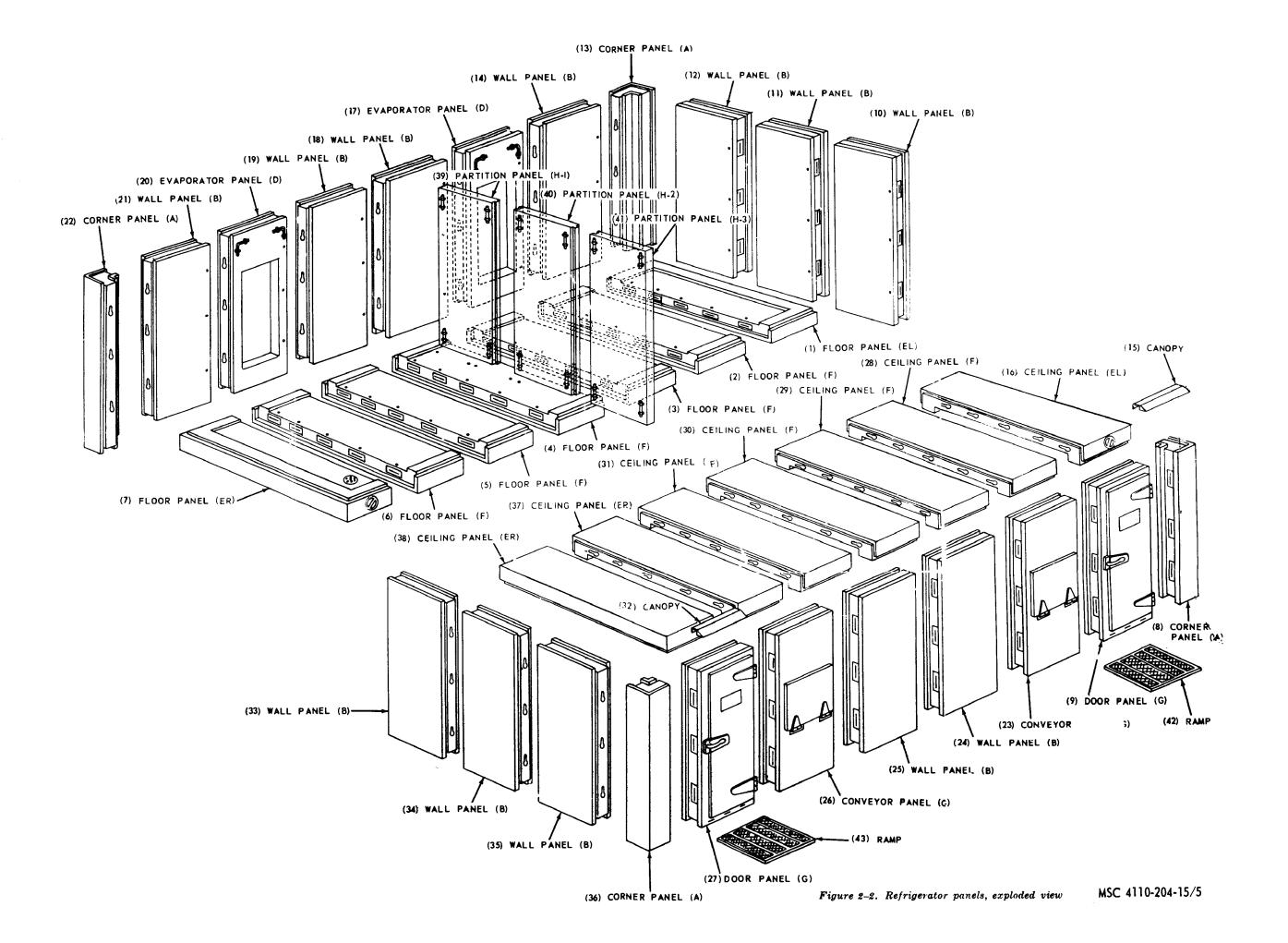
REF NO.	FUNCT GROUP	ITEM NAME	
1	8000	FLOOR RACK	
2	8000	FLOOR RACK	
3	8000	DAMD	

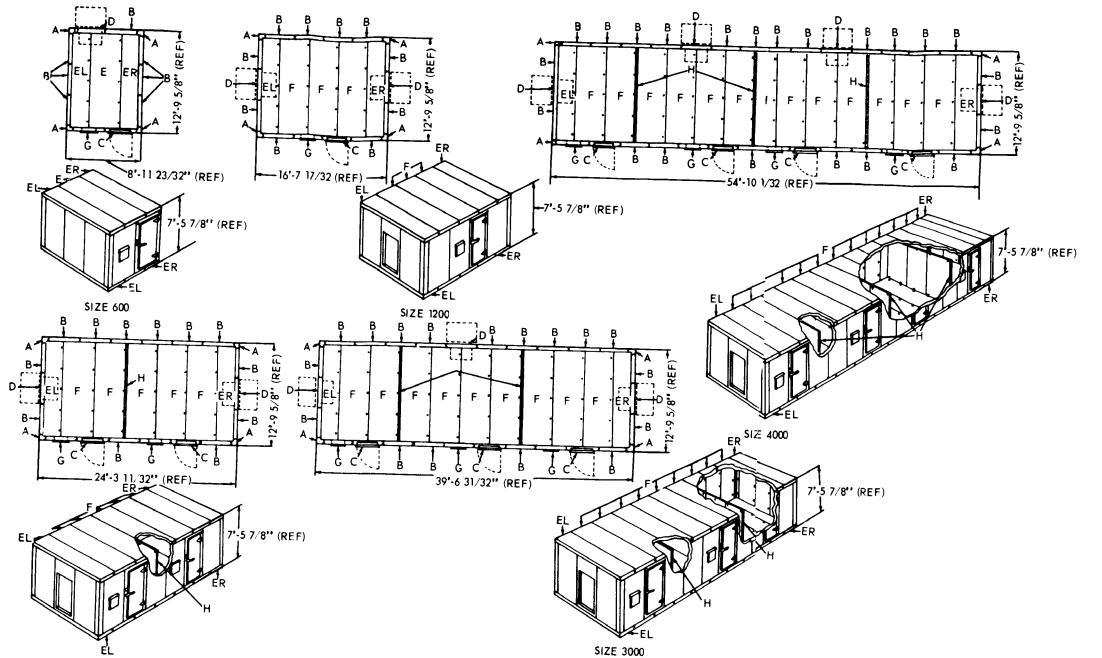
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operation under usual conditions	2-12	2-6
operation under usual conditions		2-0
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General	3-8	3-1
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Thermometer	3-31	3-10
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		3-8
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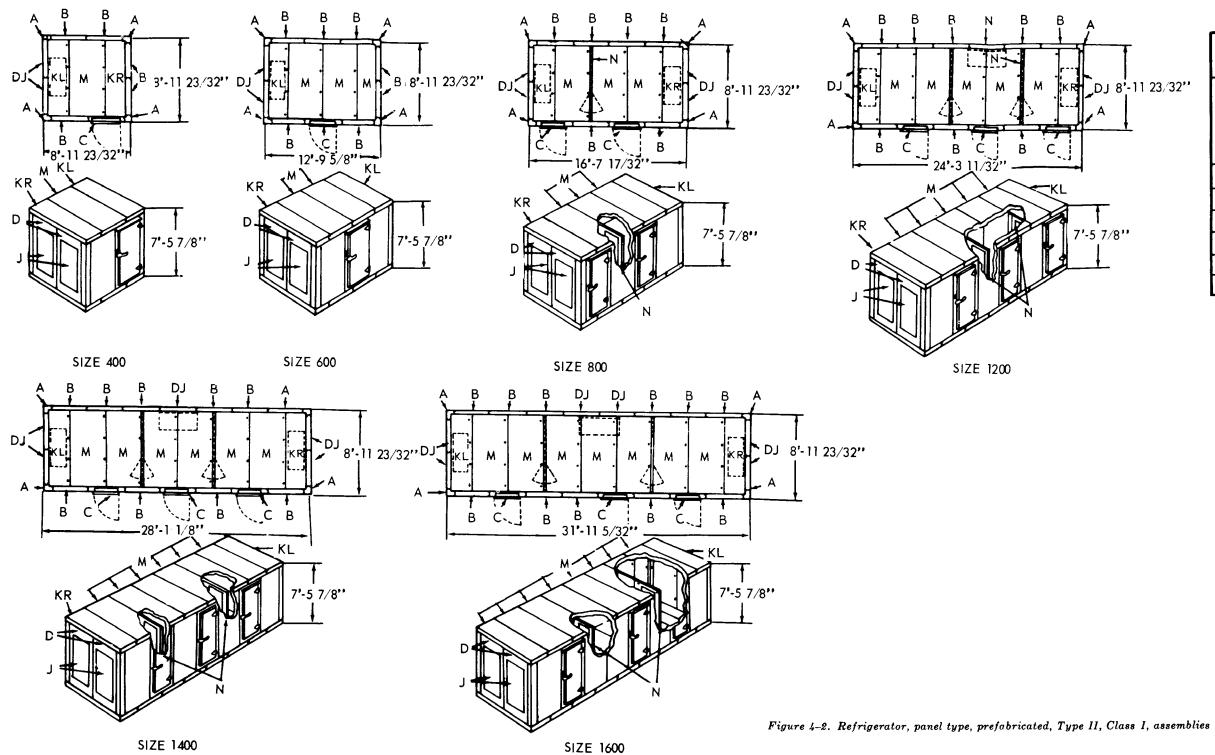
SIZE 1800

		_		PAN	EL S	CHE	DULE,	TYPE I							7		
IDENTIFYING SIZE	ACTUAL CU. FT.		PAN	ANEL DESIGNATION AND NO. REQUIRED  B C D EL FR F G* H=1 H=2 H=3 L TOTAL								TOTAL	FLOOR RACK				
		NO. REQ'D	1	L	┝	D	EL	ER	╁╌	G*	HI	<del>++2</del>	H-3	1	TOTAL	LG	SM
600	625	102	4	8	1	1	2	2	2	1	0	0	0	1	20	2	4
1200	1220	150	1	11	1	1	2	2	6	1	0	0	0	2	28	6	4
1800	1815	195	4	14	2	2	2	2	10	2	1	1	1	2	<b>3</b> 9	10	4
4000	4 194	390	4	22	4	4	2	2	26	4	3	3	3	4	77	26	4
			Ī														

PANEL DESIG.	NOMENCLATURE	DRG. NO.
Α	CORNER PANEL	5-13-2653
В	STD. WALL PANEL	5-13-2654
С	WALK-IN DOOR PANEL	5-13-2655
	WALK-IN DOOR	5-13-2656
D	EVAPORATOR PANEL	5-13-2658
J	EVAPORATOR PANEL PLUG	5-13-1144
EL	FLOOR OR CEILING PANEL	5-13-2658
ER	FLOOR OR CEILING PANEL	5-13-2659
F	FLOOR OR CEILING PANEL, CENTER	5-13-2660
G	CONVEYOR DOOR PANEL	5-13-2670
Н	PARTITION PANEL	5-13-2661

Figure 4-1. Refrigerator, panel type, prefabricated, Type I, Class I, assemblies

ME 4110-204-13/4-1 C5



				PAN	EL SC	HED	ULE	, TYP	E II					
IDENTIFYING	ACTUAL	PANEL FASTENERS				PAN	IEL	DESIG	NA TI	ON A	ND N	o. REQUIRED		
SIZE	CU. FT.	NO. REQ'D	J	А	В	C*	D	KL	KR	М	G*	TOTAL	H-1	H-3
400	405	84	2	4	5	ī	2	2	2	2	1	21	0	0
600	605	106	2	4	7	1	2	2	2	4	1	25	0	0
800	795	128	4	4	7	1	4	2	2	6	1	31	1	1
1200	1175	172	5	4	8	3	5	2	2	10	2	41	2	2
1400	1375	194	5	4	10	3	5	2	2	12	3	47	2	2
160C	1565	216*	6	4	11	3	6	2	2	14	3	51	2	2

<sup>\*</sup> WHEN DESIRED "G" OR "C" PANELS MAY BE OMITTED WITH "B" PANELS SUBSTITUTED

PANEL DESIG.	NOMENCLATURE	DRG. NO.
Α	CORNER PANEL	5-13-1139
В	STD. WALL PANEL	5-13-1140
_	WALK-IN DOOR PANEL	5-13-1141
C	WALK-IN DOOR	5-13-1142
'L' W'd'	UNIT COOLER PANEL	5-13-1877
KL	FLOOR OR CEILING PANEL	5-13-1333
KR	FLOOR OR CEILING PANEL	5-13-1394
M	FLOOR OR CEILING PANEL, CENTER	<b>5-13-1335</b>
N	PARTITION	5-13-1149

MEC 4110-204-13/4-2

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- 3. Address: 4300 Park
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- 7. Date Sent: 19-OCT-93
- 8. Pub no: 55-2840-229-23
- 9. Pub Title: TM
- 10. Publication Date: 04-JUL-85
- 11. Change Number: 7
- 12. Submitter Rank: MSG
- 13. Submitter FName: Joe
- 14. Submitter MName: T
- 15. Submitter LName: Smith
- 16. Submitter Phone: 123-123-1234
- 17. Problem: 1
- 18. Page: 2
- 19. Paragraph: 3
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- 21. NSN: 5
- 22. Reference: 6
- 23. Figure: 7
- 24. Table: 8
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TM 10	-1670-296-	23&P				30 October	2002	Unit Manua Drop Syste		ent for Low Velocity Air	
ITEM NO.	PAGE NO.	PARA- GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).					
	0036 00-2				1	sewing to 22.  Change Zig-Zag	machine o the manı 1; 308 sti	code symb		OZZ not MD	
TYPED	NAME, GRAI	DE OR TITI	E	*Re		ne numbers with		oh or subparagra PLUS	aph. SIGNATURE		
25	, <b>9101</b>				EXTENSION			·==			
Jane	Doe, PFC				508-233	3-4141			Jane Doe ${\it Jan}$	е Дое	

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				*Re		ne numbers with					
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED		MENDED ACTION	
	PART III -	REMARKS	S (Any general rema blank forms. Addit	orks or recommend ional blank sheets	lations, or su may be used	ggestions I if more s	for improvement of pace is needed.)	publications and		
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ITEM NO.	PAGE NO.	PARA- GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.		l (Provide)	RECOMMENDE exact wording of	D CHANGES AND REASON of recommended changes, if	N possible).	
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED		MENDED ACTION	
	PART III -	REMARKS	S (Any general rema blank forms. Addit	orks or recommend ional blank sheets	lations, or su may be used	ggestions I if more s	for improvement of pace is needed.)	publications and		
TYPED N	IAME, GRA	ADE OR TI	TLE	TELEPHONE EX	(CHANGE/A	NOVOTU	, PLUS EXTENSIO	N SIGNATURE		

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#### **'NEAR MEASURE**

Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches

1 Kilometer = 1000 Meters = 0.621 Miles

#### **YEIGHTS**

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces

1 Kilogram = 1000 Grams = 2.2 lb.

Liters....

Liters....

`ers.....

.ms......

ometers per Liter.....

meters per Hour.....

Metric Tons.....

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

#### LIQUID MEASURE

**TO CHANGE** 

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

#### **SQUARE MEASURE**

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet

1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

#### **CUBIC MEASURE**

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

#### **TEMPERATURE**

 $5/9(^{\circ}F - 32) = ^{\circ}C$ 

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$ 

**MULTIPLY BY** 

# APPROXIMATE CONVERSION FACTORS TO

Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
nts	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	
Short Tons	Metric Tons	0.907
		1 050
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	6.895
Pounds per Square Inch Miles per Gallon	Kilopascals	6.895 0.425
	Kilopascals	6.895 0.425
Pounds per Square Inch Miles per Gallon Miles per Hour	Kilopascals Kilometers per Liter Kilometers per Hour	6.895 0.425 1.609
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE	Kilopascals	6.895 0.425 1.609
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters	Kilopascals Kilometers per Liter Kilometers per Hour TO Inches	6.895 0.425 1.609 MULTIPLY BY 0.394
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters	Kilopascals Kilometers per Liter Kilometers per Hour TO Inches Feet	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280 1.094
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles	6.895 0.425 1.609 <b>MULTIPLY BY</b> 0.394 3.280 1.094 0.621
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches	6.895 0.425 1.609 <b>MULTIPLY BY</b> 0.394 3.280 1.094 0.621 0.155
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet. Square Yards	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Square Miles	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 0.386
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet. Square Yards Square Miles Acres	6.895 0.425 1.609 MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196 1.196 0.386 2.471
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet. Square Yards Square Miles Acres Cubic Feet	6.895 0.425 1.609 MULTIPLY BY 0.394 1.094 0.621 0.155 10.764 1.196 0.386 2.471 35.315
Pounds per Square Inch Miles per Gallon Miles per Hour  TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers	Kilopascals Kilometers per Liter Kilometers per Hour  TO Inches Feet Yards Miles Square Inches Square Feet. Square Yards Square Miles Acres	6.895 0.425 1.609 MULTIPLY BY 0.394 280 1.094 0.155 10.764 1.196 0.386 2.471 35.315 1.308

Pints..... 2.113

Gallons ..... 0.264

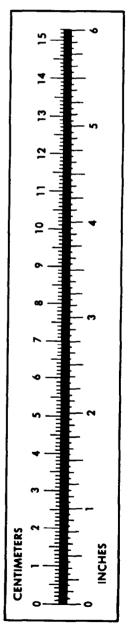
Ounces ...... 0.035

Pounds ..... 2.205

Pounds per Square Inch ..... 0.145

Miles per Gallon ...... 2.354

Miles per Hour...... 0.621



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