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 1200 CU FT, FSN 4110-926-4159 1800J CU FT, FSN 4110-926-1937 600J CU FT, FSN 4110-926-9544 1800 CU FT, FSN 4110-057-0321 3000 CU FT, FSN 4110-264-6226 4000 CU FT, FSN 4110-269-5071

600 CU FT, FSN 4110-618-8710

1200 CU FT, FSN 4110-618-8712

1600 CU FT, FSN 4110-618-8714

TYPE II, CLASS I AND II

400 CU FT, FSN 4110-618-8709 800 CU FT, FSN 4110-618-8711 1400 CU FT, FSN 4110-618-8713

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 refrigerator.

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.

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 4110-00-269-5096600J cu ft NSN 4110-00-926-95441200 cu ft NSN 4110-926-41591800 cu ft NSN 4110-00-057-43211800J cu ft NSN 4110-00-168-19373000 cu ft NSN 4110-00-264-6226TK600J cu ft NSN 4110-00-571-50274000 cu ft NSN 4110-00-269-5071TK1200J cu ft NSN 411040-574-5744TKR600A cu ft NSN 4110-01-119-3960TK4000J cu ft NSN 411040-574-5789TKR1200A cu ft NSN 4110-01-120-5735TKR4000A cu ft NSN 4110-119-3962TKR1800A 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

3. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

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. 10

TM 5-4110-204-13 C 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 4110-00-269-5096600J cu ft NSN 4110-00-926-9544AA-1200 cu ft NSN 4110-01-113-65771800 cu ft NSN 4110-00-057-03211600J cu ft NSN 4110-00-166-19373000 cu ft NSN 4110-00-264-6226TK600J cu ft NSN 4110-00-571-50274000 cu ft NSN 4110-00-269-5071TK1200J cu ft NSN 4110-00-574-5744TK4000J cu ft NSN 4110-00-574-5789

TYPE II, CLASS I AND 11

400 (cu f	ft	NSN	4119-00-618-8709	600	cu	ft	NSN	4110-00-618-8710
800	cu i	ft	NSN	4110-00-618-8711	1200	сu	ft	NSN	4110-00-618-8712
1400	cu	ft	NSN	4110-00-618-8713	1600	сu	ft	NSN	4110-00-618-8714

TM 5-4110-204-13, 14 December 1966, is changed as follows: Title is changed to read as shown above.

By Order of the Secretary of the Army:

E.C.MEYER General, United States Army Chief of Staff

Official:

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

DISTRIBUTION:

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

Change No. 9

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, 29 March 1976

Change

No. 8

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

TYPE II, 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 4I10-00-6I8-87I2 1600 cu ft NSN 4110-00-618-8714

CURRENT AS OF 24 OCTOBER 1975

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

The title is changed as shown above.

Pages D-5 through D-18. Wherever manufacturer's code (5E499) appears, change to read, "53853". 1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Revised illustrations are indicated by a vertical bar adjacent to the identification number.

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

2. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

Official:

FRED C. WEYAND General, United States Army Chief of Stqff

PAUL T. SMITH Major General, United States Army The Adjutant General

Distribution:

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

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC 14 July 1975

Change

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 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 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 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

Current as of 28 April 1975

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

The title is changed as shown above.

1. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. Revised illustrations are indicated by a vertical bar adjacent to the identification number. When an entire table is changed or added, the vertical bar will be adjacent to the table title only.

Remove pages Insert pages 1-1 through 1-4 1-1 through 1-4 2-1 and 2-2 2-1 and 2-2 2-5 and 2-6 2-5 and 2-6 4-3 and 4-4 4-3 and 4-4 D-3 through D-8 D-3 through D-8 D-13 through D-18 D-13 through D-18 None Copies DA Form 2028-2

2. File this change sheet in front of the publication for reference purposes.

TM 5-4110-204-13

By Order of the Secretary of the Army:

Official:

CREIGHTON W. ABRAMS General, United States Army Chief of Staff

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

Distribution:

To be distributed in accordance with DA Form 12-25C (qty rqr block No. 1017), Operator Requirements for Refrigeration Equipment.

TM 5-4110-204-13 C 6

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

CHANGE No. 6

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:

Official:

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

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

Distribution:

To be distributed in accordance with DA Form 12-25C, (qty rqr block No. 1017) Operator maintenance requirements for Refrigeration Equipment.

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

CHANGE

No. 5

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

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

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

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

1. The title is changed to read as shown above.

2. Remove old pages and insert new pages as indicated below. New or changed material is indicated by a vertical bar in the margin of the page. When an entire chapter or appendix is revised the bar will be adjacent to the title only.

Remove Pages	Insert Pagea
i	i
None	14.01
2-1 and 2-2	2-1 and 22
3-9 and 3-10	3-9 and 3-10
Figure 4-1	Figure 4-1
4-3	4-3
A-1	A-1
D-5 through D-12	D-5 through D-12
D-15 through D-22	D-15 through D-22

2. File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

Official:

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

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

Distribution:

To be distributed in accordance with DA Form 1225C, (qty rqr block No. 1017). Operator Maintenance Requirements for Refrigeration Equipment.

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

TECHNICAL MANUAL

No. 5-4110-204-13

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

	REFRIGERATOR, PREFABRICATED; PANEL 1 REFRIGERATING EQUIPMENT; MILITARY SPEC MIL-R-10932	'YPE; W/O CIFICATIONS	
	TYPE 1. CLASS I AND II		
600 C	LI ET ESNI /110-260-5006 600.1 CU	FT FSN 4110-92	6-9544
4000 C	UTT FON 4440 026 4450 1900 CU	ET EGN 4110 05	0 3347 7 0224
1200 C	U FI, FSN 4110-920-4159 1000 CO	FI, FSN 4110-057	-0321
I 1800J C	U FT, FSN 4110-168-1937 3000 CU	FT, FSN 4110-26	44226
	4000 CU	FT, FSN 4110-269)-5071
	TYPE II. CLASS I AND II	,	
400 C	LIET EGNI 4140 649 9700 600 700 600 CIL	ET ESN /110_615	2_9710
400 C	U F1, F3N 4110-010-0709 000 C0	[1, 10] 4110-010	
800 C	U FT, FSN 4110-618-8711 1200 CU	FT, FSN 4110-618	3-8/12
1400 C	U FT, FSN 4110-618-8713 1600 CU	FT, FSN 4110-618	3-8714
		Paragraph	Page
CHAPTER 1.	INTRODUCTION	1 1 and 1 2	11
Section I.		1-1 dilu 1-2	1-1
		1-5 tillough 1-5	
Section I	Service upon receipt of equipment	2-1 through 2-5	2-1
	Movement to a new worksite	2-6 and 2-7	2-6
	Controls and instruments.	2-8 and 2-9	2-6
lv.	Operation of equipment	2-10 through 2-13	2-6
CHAPTER 3.	OPERATOR AND ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section I.	Operator and organizational maintenance tools and equipment	3-1 through 3-3	3-1
IL	Lubrication and preventive maintenance services	3-4 through 3-7	2125
			3-5.34
IV.			3-6
V.			3-7.3-10
			- ,
Section I	General	4-1 and 4-2	41
H.	Description and tabulated data	4-3 and 4-4	4-1
CHAPTER 5.	GENERAL MAINTENANCE INSTRUCTIONS		
Section I.	Special tools and equipment	5-1 through 5-3	5-1
II.	Direct support maintenance instructions	5-4 and 5-5	5-1
APPENDIX A.	REFERENCES		A-1
В.	ITEMS TROOP INSTALLED OR AUTHORIZED		В-1 С 4
<u>c</u> .			0-1 D-1
D.	REPAIR PARIS		I-1
INDEX		• • • • • • • • • • • • • • • • • • • •	

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 Juiy 1963 including all changes

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 $38\text{-}750_{\scriptscriptstyle 0}$

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 Specification 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,



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. fl. 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





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



1 - 6

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



REFRIGERATOR TO BE ERECTED.

MEC 4110-204-13/1-

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, 1200cu. 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., 1200cu. ft., 1400-cu. ft., and 1600-cu. ft., Type II, Class I refnigerators. The only unit differences are the various sizes as stated above and the design modifications incorporated in the 600cu. 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 stapleIs, 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 gaskets.

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).



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 operation 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 re-frigerator 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.



C. PILOT LIGHT

MEC 4110-204-13 2-5



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.

	PREVENTIVE MAINTENANCE SERVICES			
	DAILY			
TM 5-	-4110-204-13 PANEL TYPE REFRIGERA PREFABRIC	ATOR, ATED		
ITEM	P.	AR REF		
I	<u>REFRIGERATOR</u> . Inspect panels for serviceability and secure mounting.			
2	DOOR HANDLES, LATCHES, AND HINGES. Inspect for cracks, breaks, excessive wear, loose or missing hardware.	3-22		
3	PILOT LIGHT LAMP. Check for proper operation and damage.	2-9		
4	4 <u>CONVEYOR DOOR</u> . Inspect for cracks, breaks, deterioration of weather stripping and all other damage. Clean with an approved cleaning solvent 3-23 and allow to dry thoroughly.			
5	FLOOR DRAIN. Inspect for cracks, breaks, and damaged threads. Clean with an approved cleaning solvent.	રૂ-32		
6	RACKS. Inspect for visual signs of wear and damage. Clean with an approved cleaning solvent and dry thoroughly.			

MEC 4110-204-13/3-1



	PREVENTIVE MAINTEN	ANCE SERVICES
	QUARTERI	.Υ
TM 5-4110-204-13 PANEL TYPE REFRIGE PREFABE		REFRIGERATOR, PREFABRICATED
ITEM		PAR REF
1	REFRIGERATOR. Inspect panels for serviceal necessary.	ble condition and replace if
2	DOOR HANDLES, LATCHES AND HINGES. excessive wear, loose or missing hardware. door handle. Oil hinges with OE periodical	Inspect for cracks, breaks, Replace as necessary. Polish 3-22 ly.
3	POWER RECEPTACLE. Inspect receptacle an Replace as necessary. Clean all parts with an thoroughly.	d cover for cracks and breaks. approved solvent and dry 3–17
4	PILOT LIGHT LAMP. Inspect for proper oper as necessary. Clean cover and lens with an a thoroughly.	ation and damage. Replace pproved solvent and dry 3–18
5	CONVEYOR DOOR. Inspect door for cracks and a defective seal. Replace as necessary.	, breaks, weather stripping 3–23
6	FLOOR DRAIN. Inspect for serviceability, s Replace as necessary.	secure mounting, and leaks. 3-32

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

Figure 3-20. Quarterly preventive maintenance services

ITEM					PAR REF
7	RACKS.	Inspect visually	for serviceability.	Replace as necessary.	
				· · · · · · · · · · · · · · · · · · ·	
.					

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



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 The possible remedy recommended is trouble. described opposite the probable cause.





A. COVER



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 Replace switch (para.
	3-19).
Loose wiring connections	Tighten 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 strainér.
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

Probable cause	Possible remedy
Door striker plate not properly adjusted	Adjust striker latch (para. 3-22)
Door gasket worn or missing	Replace gasket (para. 3-28) .
Door defective	Replace door (para. 3-21).
Outside or inside skin damaged	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.

Change 2 3-7



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.

NOT E: 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.

(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.



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

3-11





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



Figure 3-14. Drain strainer, removal and installation

3-13

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

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

For a complete description of the prefabricated refrigerator see paragraph 1-3.

4-4. Tabulated Data

a. General. This paragraph contains the time standards and list of components necessary for construction of the various size refrigerators. Refer to paragraph 1-4 for general tabulated data.

b. The Standards. Table 4-1 lists the number of man-hours required u rider normal conditions for various operations in the maintenance and repair of the prefabricated refrigerators. The man-hours listed are not intended to be rigid standards. Under adverse conditions, the operation will take considerable longer; but under ideal conditions with highly skilled mechanics, most of the operations can be accomplished in considerably less time.

Table 4-1. Time Standards

Removal and Replacement	Hours
22 BODY CHASSIS OR HULL, AND ACCESSORY	
ITEMS	
2210 Data Plates	
Plates, data	0.2
Plates, instruction	0.2
80 STORAGE EQUIPMENT	
8000 Refrigerator warehouse	
Warehouse assembly	
Type I, Class I;	

600 cu ft Unit 1200 cu ft Unit 1800 cu ft Unit 3000 cu ft Unit 4000 cu ft Unit	8.0 16.0 24.0 40.0 51.4
Type II, Class 1: 400 cu ft Unit 600 cu ft Unit 800 cu ft Unit 1200 cu ft Unit 1400 cu ft Unit 1600 cu ft Unit	5.3 8.0 10.6 16.0 18.6 21.2
Floor rack assembly (each) Panel assembly (each) Roller Gasket (Includes removal and installation of strip)	0.7 2.1 0.2 1.5
Curtain, conveyor door (Includes removal and installation of strips)	0.6
Partition assembly Clamp and striker assembly Barrel bolt assemblies Door panels Door latch and hinge assemblies Lock, door latch Light assembly, pilot Lamp (Includes removal and installation of cover)	2.5 3.4 0.8 3.2 1.1 0.1 0.9 0.2
Switch assembly Receptacle Light assembly, refrigerator	0.3 0.4 0.6

Lamp	0.9	Canopy 2.9
(Includes removal and installation of guard and cover).		of panels). Ramp 0.06
Cover (Includes removal and installation of guard).	002	<i>c.</i> Refrigerator Component Data. Tables 4-2 and 4–3 list the type and number of panels
Gasket (Includes removal and installation of guard, cover and fittings).	0.4	tion of all sizes of the Type I and Type II, Class I refrigerators. Refer to figures 4-1 and 4-2 for nomenclature identifier callouts listed
Power receptacle assembly (Includes removal and installation of guard, cover gasket and wiring).	0.4	in the tables.
Cover and gasket (Includes removal and installation of guard).	0.2	door are optional. When not required, the conveyor panel with door is re- placed by a stantard wall panel. The
Guard, power receptacle (Includes removal and installation of chain).	0.2	1800J Model Refrigerator is similar to the Type I, Class I refrigerator. For the 1800J unit, the romp, con-
Thermometer	0.2	veyor panel, and J Panel are optional;
Strainer assembly (Includes removal and installation of plug).	1.8	and when the conveyor panel is re- quired, it replaces other standard wall panels.

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

			Quantity	Needed		
Panel or component nomenclature		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	$\frac{1}{2}$	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)	-	-	l 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	19	30	
Floor rack, 24 1/4 in. wide		4	3	12	4	
Floor rack, 41 3/4 in. wide		2	6	10	26	

Table 4-2.1.	Refrigerator	Component Data
		-

Panel or component		Number of panels and components used type I, class I refrigerators								
nomenclature	nomenclature			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	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	2	3	4				
Thermometer		1	1	2	3	4				
Shelving unit		4	9	12	21	30				
Floor rack, 24¼ in. wide		2	2	2	2	2				
Floor rack, 41-3/4 in. wide		1	3	5	9	· <u>-</u> 13				
Tape 4''-OD B/PPP-T-60		1 roll	1 roll	2 rolls	3 rolls	4 rolls				

-			^	D (• • •
lable .	4-2.1	Refrigerator	Component	Data -	- Continued

Panel or component			N	umber of panels for type II,	or components class I units	used	
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							
with door	(C)	1	1	1	3	3	3
Evaporator panel	(D)	2	2	4	5	5	6
Floor or ceiling panel, end_left	(K L)	9	9	2	2	2	2
Floor or ceiling panel,		-	-		-	_	-
end, right	(KR)	2	2	2	2	2	2
Floor or ceiling panel							
center	(M)	2	4	6	10	12	14
Partition panel	(H1) (H3)			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	Туре	II,	Class	Ι
-------	------	--------------	-----------	------	------	-----	-------	---

Panel or component		Quantity Needed									
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 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	(M)	2	4	6	10	12	14				
Partition panel	(H1) (H3)			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

TM 5-4110-203-15 TM 5-4110-209-15 TM 5-4110-210-14 TM 5-4110-212-15 TM 5-4110-218-15 TM 5-4110-221-14 TM 5-4110-226-14 TM 5-4110-227-14 TM 5-4110-228-14 Refrigeration Unit, Panel Type, 9,000 BTU Refrigeration Unit, Panel Type, 5,000 BTU Refrigeration Unit, Panel Type, 5,000 BTU Refrigeration Unit, Panel Type, 10,000 BTU Refrigeration Unit, Panel Type, 10,000 BTU Refrigeration Unit, Panel Type, 5,000 BTU Refrigeration Unit, Panel Type, 10,000 BTU Refrigeration Unit, Panel Type, 10,000 BTU Refrigeration Unit, Panel Type, 10,000 BTU

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

1

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.

(1)	(2)	(3) Description		(6) Unit	(5) Qtyl auth
SMR code	Federal stock number	Ref. No. & Mfr code	Usable on code	of meas	
РО РО РО РО РО	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

Section III. ITEMS TROOP INSTALLED OR AUTHORIZED LIST

APPENDIX C

MAINTENANCE ALLOCATION CHART

Section I. INTRODUCTION

C-1. General

a. Section I provides a general explanation of all maintenance and repair functions authorized at various maintenance levels.

b. Section II designates overall responsibility for the performance of maintenance operations on the identified end item or component. The implementation of the maintenance tasks upon the end item or component will be consisten with the assigned maintenance operations.

c. Section 111 lists the special tools and test equipment required for each maintenance operation as referenced from Section II.

d. Section IV contains supplemental instructions, explanatory notes and/or illustrations required for a particular maintenance function.

C-2. Explanation of Columns in Section II

a. Functional Group Number. The functional group is a numerical group set up on a functional basis. The applicable functional grouping indexes (obtained from TB 750-93-1 Functional Grouping Codes) are listed on the MAC in the appropriate numerical sequence. These indexes are normally set up in accordance with their function and proximity to each other.

b. Component Assembly Nomenclature. This column contains a brief description of the components of each functional group.

c. Maintenance Operations and Maintenance Levels. This column lists the various maintenance operations (A through J) and indicates the lowest maintenance level authorized to perform these operations. The symbol designations for the various maintenance levels are as follows: O/C—Operator or crew O—Organizational F—Direct Support H—General Support D—Depot

The maintenance operations are defined as follows :

- A—SERVICE: Operations required periodically to keep the item in proper operating condition, i.e., to clean, preserve, drain, paint, and replenish fuel, lubricants, hydraulic, and deicing fluids, or compressed air supplies.
- B—ADJUST: Regulate periodically to prevent malfunction. Adjustments will be made commensurate with adjustment procedures and associated equipment specifications.
- C—ALINE: Adjust two or more components of an electrical or mechanical system so that their functions are properly synchronize'or adjusted.
- D—CALIBRATE: Determine, check, or rectify the graduation of an instrument, weapon, or weapons system or components of a weapons system.
- E—INSPECT: Verify serviceability and detect incipient electrical or mechanical failure by close visual examination.

F-TEST: Verify serviceability and detect in-

C-1

cipient electrical or mechanical failure by measuring the mechanical or electrical characteristics of the item and comparing those characteristics with, authorized standards. Tests will be made commensurate with test procedures and with calibrated tools and/or test equipment referenced in the MAC.

- G-REPLACE: Substitute serviceable components, assemblies and subassemblies for unserviceable counterparts or remove and install the same item when required for the performance of other maintenance operations.
- H—REPAIR: Restore to a serviceable condition by replacing unserviceable parts or by any other action required using available tools, equipment and skills—to include welding, grinding, riveting, straightening, adjusting and facing.
- I-OVERHAUL : Restore an item to a completely serviceable condition (as prescribed by serviceability standards developed and published by the commodity commands) by employing techniques of "Inspect and Repair Only as Necessary" (IROAN). Maximum use of diagnostic and test equipment is combined with minimum disassembly during overhaul. "Overhaul" may be assigned to any level of maintenance except organizational, provided the time, equipment. tools. repair authorization. and parts technical skills are available at that level. Normally,

overhaul as applied to end items, is limited to depot maintenance level.

J—REBUILD: Restore to a condition comparable to new by disassembling to determine the condition of each component part and preassembling using serviceable, rebuilt, or new assemblies, subassemblies, and parts.

d. Reference Note. This column, subdivided into columns K and L, is provided for referencing the Special Tool and Test Equipment Requirements (Sec. III) and Remarks (Sec. IV) that may be associated with maintenance operations (Sec. II).

C-3. Explanation of Columns in Section III

a. Reference Code. This column consists of a number and a letter separated by a dash. The number references the T and TE requirements column on the MAC. The letter represents the specific maintenance operation. the item is to be used with. The letter is representative of columns A through J on the MAC.

b. Maintenance Level. This column shows the lowest level of maintenance authorized to use the special tool or test equipment.

c. Nomenclature. This column lists the name or identification of the tool or test equipment.

d. Tool Number. This column lists the manufacturer's code and part number, or Federal stock number, of tools and test equipment.

C-4. Explanation of Columns in Section IV

a. Reference Code. This column consists of two letters separated by a dash, both of which are references to Section II. The first letter references column L and the second letter references a maintenance operation, column A through J.

b. Remarks. This column lists information pertinent to the maintenance operation being performed, as indicated on the MAC Section II.

				Maintenance levels Maintenance operations						N R	ote ef			
iona ber		ł	A	В	C	D	E	F	G	н	1	J	<u></u>	L
Func gro Nun	Component assembly nomenclature	Essentiality	Service	Adjust	Aline	Calibrate	Inspect	Test	Replace	Repair	Overhaul	Rebuild	T&TE Rqmt	Remarks
22	BODY CHASSIS OR HULL, AND ACCES- SORY ITEMS													
2210	Data Plates:						:							
	Plates, Data								F					
80	STORAGE EQUIPMENT COMPONENTS	2												
8000	Refrigerator:													
	Refrigerator	 	o/c		 		0/C-		F	0				
	Rack assembly, floor	ļ							0					А
	Panel assemblies, prefabricated								0	0				
	Roller; gasket; conveyor door								0					
	Partition assembly								0	0				
	Clamp and strike assemblies; barrel bolt								0					
	Door panels; door latch and hinge assemblies		0/C_						0					В
	Lock, door latch								0					
	Light assemblies								0					
	Bulb (lamp)								0/C					
	Switch assembly, light								0					
	Cover; gasket; guard; light								0					
	Receptacles, power								0					
	Cover; gasket; guard; power receptacle				 				0					
	Thermometer								o/c					
	Strainer assembly, drain		0/C_						0					
	Canopy; ramp								0					

Setion II. MAINTENANCE ALLOCATION CHART

Section III. SPECIAL TOOL AND SPECIAL TEST EQUIPMENT REQUIREMENTS

Reference	Maintenance	Nomenclature	Tool
code	level		number
	No special tools or t	est equipment required	

Section IV. REMARKS

Reference code	Remarks
A—A	Service of floor rack assembly, includes removing, scrubbing with a soap and water solution, rinse and replace.
BA	Service of door latch and hinge assemblies includes lubricating, polishing with suit- able 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.

 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

- o 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)

ne	t						National Pipe Thread
the	¢						thickness)
V							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	(2)		15-Da Maint, A	(2) 19 Org. Allowance	
stock number	Description	(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100
	LIGHT, PILOT (53853) 447-6063-001-534-MDSI	22	55	110	231
	SWITCH (74545) 1251	2	3	7	14
	GASKET: vertical (53853) 5804	4	6	12	26
	GASKET: vertical (53853) 5805	8	20	40	84
	GASKET: bottom (53853) 5806	8	20	40	84
	GASKET: top (53853) 5803	8	20	40	84

Mot windfer Pedmit/National member Decentions Ref number & Infrode Decentions (see (see (see (see (see (see (see (s	(1)	(2)		(3)		(4)	(5)	1:	5-Day Or Mainter	(6) rganizati nance al	io nal w	(7) Illus- tration		
Section 3 - Repair Parts List for Organizational Level Part Group 80 - Storage Equipment Components 8000 - Refrigerator Warehouse Image: Components Components 8000 - Refrigerator Warehouse Image: Components Refrigerator Warehouse <th>SM R code</th> <th>Federal/National stock number</th> <th>Ref number & mfr code</th> <th>Description</th> <th>Usable - on code</th> <th>Unit of meas</th> <th>Qty inc in unit</th> <th>(a) 1-5</th> <th>(b) 6-20</th> <th>(c) 21-50</th> <th>(d) 51-100</th> <th>(a) Fig. No.</th> <th>(b) Item No.</th>	SM R 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 Door, Walk-in 53853 90105 ea. *<			Section 3 — Repair Organization Part I Group 80 — Storag Compo 8000 — Refrigerato	Parts List for al Level e Equipment onents or Warehouse					0.20	21-50	51-100			
MO Gasket, Door, Fab From ft. I<	X20		Door, Walk-in	53853 90105	i	ea.	*	*	*	*	+	D3	1	
MO Rubber Spong 74951 PHD-502N-1 (18'4" required for each gasket) SEE GRP 950 1 N PO Hinge, Door 32761 1245 ea. N N N N D3 7 PO Latch Assembly 32761 K-56 ea. N N N N D3 2 PO Latch Assembly 32761 K-56 ea. N N N N D3 2 PO Screw, Hinge, Mtg. 87308 CO04 ea. N N N N D3 3 Y20 Panel A, Corner 53853 90021 ea. N SEE GRP 950<1	MO		Gasket, Door, Fab	From		ft.						D3	4	
PO Hinge, Door 32761 1245 ea. • • • • • 03 7 PO Latch Assembly 32761 K-56 ea. • • • • 03 2 PO Screw, Hinge, Mtg. 87308 CO04 ea. • • • • 03 3 PO Screw, Latch, Mtg. 87308 CO04 ea. • • • • 03 3 X20 Panel A, Corner 53853 90021 ea. • • • • 01 9 PO Camlock 53853 90021 ea. • • • • 01 12 MO Gasket, Panel - ft. it.	MO		Rubber Sponge (18'4'' required for	74951 PHD-5 each gasket)	602N-1			SEE	GRI	950	1			
PO Latch Assembly 32761 K-56 ea. * * * * * D3 2 PO Screw, Hinge, Mtg. 87308 C004 ea. * * * * * D3 3 PO Screw, Latch, Mtg. 87308 C004 ea. * * * * * D3 3 X20 Panel A, Corner 53853 900113 ea. * * * * * * D1 9 PO Camlock 53853 90021 ea. * SEE GRP 950<1	PO		Hinge, Door	32761 1245		ea.	*	*	*	*	*	D3	7	
PO Screw, Hinge, Mtg. 87308 CO04 ea. * * * * D3 8 PO Screw, Latch, Mtg. 87308 CO04 ea. * * * * * * D3 3 X20 Panel A, Corner 53853 90013 ea. * * * * * M0 01 9 PO Camlock 53853 90021 ea. * SEE GRP 950<1	РО		Latch Assembly	32761 K-56		ea.	*	*	*	*	*	D3	2	
PO Screw, Latch, Mtg. 87308 C004 ea. * * * * * D3 3 X20 Panel A, Corner 53853 90113 ea. * * * * D1 9 PO Camlock 53853 90021 ea. * SEE GRP 950 1 D4 12 MO Gasket, Panel Fab From ft. ft. SEE GRP 950 1 D4 12 MO Gasket, Panel Fab From ft. ft. SEE GRP 950 1 D4 12 MO Rubber Sponge 74951 NX502B-1 (13' required for each gasket) r. ft. sEE GRP 950 1 U 13 Y20 Panel B, Wall 53853 90021 ea. <t< td=""><td>PO</td><td></td><td>Screw, Hinge, Mtg.</td><td>87308 C004</td><td></td><td>ea.</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>D3</td><td>8</td></t<>	PO		Screw, Hinge, Mtg.	87308 C004		ea.	*	*	*	*	*	D3	8	
X20 Panel A, Corner 53853 90113 ea. * * * * N	PO		Screw, Latch, Mtg.	87308 C004		ea.	*	*	*	*	*	D3	3	
PO Camlock 53853 90021 ea. * SEE GRP 950 1 D4 12 MO Gasket, Panel Fab From ft. ft. i	X20		Panel A, Corner	53853 90113		ea.	*	*	*	*	*	D1	9	
MO Gasket, Panel Fab From ft. I.	PO		Camlock	53853 90021		ea.	*	SEE	GRF	950	1	D4	12	
MO Rubber Sponge 74951 NX502B-1 (13' required for each gasket) s s s s g	MO		Gasket, Panel Fab From			ft.						i		
PO Screw, Camlock Mtg 87308 C003 ea. * * * * * D4 13 X20 Panel B, Wall 53853 90114 ea. * * * * * D1 10 PO Camlock 53853 90021 ea. * SEE GR 95 1 D4 12 MO Gasket Panel Fab From ft. * * * * b4 12 MO Gasket Panel Fab From r ft. * set GR 95 1 D4 12 PO Screw, Camlock r ft. * set GR 95 1 D4 6 MO Rubber Sponge reach gasket) r ft. * set Set GR 95 1 r <td>MO</td> <td></td> <td>Rubber Sponge (13' required for ea</td> <td>74951 NX502 ch gasket)</td> <td>2B-1</td> <td></td> <td></td> <td>SEE</td> <td>GRF</td> <td>950</td> <td>)1</td> <td></td> <td></td>	MO		Rubber Sponge (13' required for ea	74951 NX502 ch gasket)	2B-1			SEE	GRF	950)1			
X20 Panel B, Wall 53853 90114 ea. * * * * 10 PO Camlock 53853 90021 ea. * SEE GRP 950 1 D4 12 MO Gasket Panel Fab From ft. * * * * b4 12 MO Gasket Panel Fab From ft. * * * b4 6 MO Rubber Sponge 74951 NX502B-1 i i see GRP 950 1 b4 6 PO Screw, Camlock Mtg 87308 coo3 ea. * * * * b4 13 X20 Panel C, Door 53853 90024 ea. * * * * b1 6 X20 Canopy, Door 53853 90024 ea. * * * * b1 6 PO Camlock 53853 90021 ea. * * * * b1 6 X20 <td< td=""><td>PO</td><td></td><td>Screw, Camlock Mt</td><td>g 87308 C003</td><td></td><td>ea.</td><td>*</td><td>*</td><td>*</td><td>*</td><td>*</td><td>D4</td><td>13</td></td<>	PO		Screw, Camlock Mt	g 87308 C003		ea.	*	*	*	*	*	D4	13	
PO Camlock 53853 90021 ea. * SEE GRP 950 1 D4 12 MO Gasket Panel Fab From ft. * * * * * * * * * D4 12 MO Gasket Panel Fab From * ft. * * * * D4 6 MO Rubber Sponge (13'2'' required for each gasket) r r * * * * D4 12 PO Screw, Camlock Mtg 37308 C003 ea. * * * * * * D4 13 X20 Panel C, Door 53853 90106 ea. * * * * D1 8 X20 Canopy, Door 53853 90024 ea. * * * * D1 6 PO Camlock 53853 90021 ea. * * * * D4 12	X20		Panel B, Wall	53853 90114		ea.	*	*	*	*	*	D1	10	
MOGasket Panel Fab Fromft.*D46MORubber Sponge (13'2'' required for each gasket)D46POScrew, Camlock Mty 87308 C003ea.*****.D413X20Panel C, Door53853 90106ea.*****D18X20Canopy, Door53853 90024ea.****D16POCamlock53853 90021ea.****D412	PO		Camlock	53853 90021		ea.	*	SEE	GRF	950	1	D4	12	
MO Rubber Sponge 74951 NX502B-1 (13'2'' required for each gasket) Image: Second s	MO		Gasket Panel Fab From			ft.	*					D4	6	
PO Screw, Camlock Mty 87308 C003 ea. * * * * D4 13 X20 Panel C, Door 53853 90106 ea. * * * * * D1 8 X20 Canopy, Door 53853 90024 ea. * * * * D1 6 PO Camlock 53853 90021 ea. * * * * D4 12	MO		Rubber Sponge (13'2" required for	74951 NX502 each gasket)	2B-1			SEE	GRF	950	1			
X20 Panel C, Door 53853 90106 ea. * * * * D1 8 X20 Canopy, Door 53853 90024 ea. * * * * D1 8 PO Camlock 53853 90021 ea. * * * * D1 8	PO		Screw, Camlock Mt	g.87308 C003		ea.	*	*	*	*	*	D4	13	
X20 Canopy, Door 53853 90024 ea. * * * * D1 6 PO Camlock 53853 90021 ea. * * * * D4 12	X20		Panel C, Door	53853 90106		ea.	*	*	*	*	*	D1	8	
PO Camlock 53853 90021 ea. * * * * * D4 12	X20		Canopy, Door	53853 90024		ea.	*	*	*	*	*	D1	6	
	PO		Camlock	53853 90021		ea.	*	*	*	*	*	D4	12	

(1)	(2)	(3)	(4)	(5)			6)			7)
SMR	Federal 'National	Description	Unit	Qty		lainte	ganizati "CC.	onal	<u></u>	tion
code	stock number	Usable- on Ref. number & mfr.code code	of mea	inc in unit	(a) 15	(b) 6-20	(C) 21-5((d)	(a) Fig.	(b) Item
MO		Gasket, Panel Fab From	ft.		15	0 20		100	110.	
MO		Rubber Sponge 32761 NX502B-1 (13" required for each gasket)			SE	GF	95	1		
ΡO	935-01-438-9943	Cap, Receptacle 74545 4884	ea.	•	•	•	÷	¥	D4	22
ΡO	935-00-222-0072	Boot, Receptacle 74545 7440	ea	2					D4	21
ΡO		Receptacle, Female 74545 7484 Plug	ea.	*	*	•	•	÷	D4	21
ΡO		Receptacle, Male 74545 7486	ea.	2					D4	18
ΡO		Pilot Light 53853 477-6063- Assembly MDSI	ea.	•	*	*	•	*	D4	27
ΡO		Cover, Pilot Light 53853 25-1-SGS-	ea.	•	•	•	٠	•	D4	27
ΡO		Vapor Proof Light 87518 VBB100PC Assembly	ea.	÷	*	•	•	•	D4	4
ΡO		Screw Camlock Mtg.87308 COO3	ea.	•	•	•	•	*	D 4	13
ΡO		Screw,Cover Mtg. 87308 COO6	ea.	*	•	•	*	*	D 4	20
ΡO		Screw, Light Mtg. 87308 COO5	ea.	•	•	*	•	•	D 4	5
ΡO		Screw, Pilot Light 87308 COO6	ea.	*	•	•	•	•	1 D 4	23
ΡO		Screw, Receptacle 87308 COO7	ea.	•	•	*	*	*	D 4	19
ΡO		Screw, Strike Mtg. 87308 COO4	ea.	•	*	•	•	•	D 4	2 5
ΡO		Switch 74545 1251	ea.	•	2	3	7	14	I34	16
ΡO		Switch Cover 74545 1750	ea.	1	•	*	•	•	D 4	16
ΡO		Screw, Switch Mtg. 87308 COO6	ea.	*	•	•	•	Ξ	D 4	17
ΡO		Thermometer 64467 7269	ea.	×	NH	×	•	Ħ	1D 4	14
ΡO		Screw, Thermom- 87308 COO5 eter Mtg.	ea.	*	•	Ξ	•	*	D4	15
x20		Panel D,Evaporator 53853 90115	ea.	•	NH	*	•	¥	D1	1
ΡO		Hex Wrench 37761 1145	ea.	ił.	÷	# H	•	•	D1	19
ΡO		Camlock 53853 90021	ea.	H.	SEI	GR			D4	12

Change 10 D-5

(1)	(2)		(3)				(5)	15	() Day Orj Mainten	(7) Illus- tration			
SMR code	Federal/National stock number	I Ref number & mfr code	Description	U: c	sable - on ode	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		Clip, Panel Wrench	75915	105002		ea.	*	*	*	*	*	D1	18
MO		Gasket, Panel Fab From										D4	6
MO		Rubber Sponge (13' required for ea	74951 Ich gaske	NX502B et)	-1	ft.		SEE	GRI	950	01		
РО		Screw, Camlock Mtg.	87308	C003		ea.	. *	*	*	*	*	D4	13
РО		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	quired fo	or									
X20		Thermal Strip: Vertical, Masonite Fab From	53853	90111		ea.	*						
CO		Building Board, Hard Pressed, Vegetable Fiber (5½" x 55½ " requ Thermal Strip)	ired for (each									
X20		Panel H-1: Partition	53853	90133		ea.	*	*	*	*	*	D1	12
PO		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
РО		Gasket, Bottom	53853	5806		ft.	*	SE	GR	99	01	D1	11
мо		Gasket, Top	53853	5803		ft.	*	SE	GR	99	01	D1	4
МО		Gasket, Vertical	53853	5805		ft.	*	SE	GR	99	01	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	P 99	ø 1	D1	11
	ł	I				I	I	l	I	I	I	I	I

(1)	(2)		(3) Description				15	(-Day Or Mainter	6) ganizati nance alv	onal v	(Ill tra	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.
МО		Gasket, Top	53853	5803	ft.	*	SEE	GR	99	0 1	D1	4
MO		Gasket, Vertical	53853	5804	ft.	*	SEE	GR	90	þ 1	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	91	D1	11
МО		Gasket, Top	53853	5803	ft.	*	SE	GR	990	01	D1	4
MO		Gasket, Vertical	53853	5805	ft.	*	SEL	GR	990	01	D1	5
PO		Screw, Barrel Bolt Mtg.	87308	C001	ea.	*	*	*	*	*	D1	16
MO		Gasket, Vertical	53853	5804	ft.	*	SE	GR	990	01	D1	13
		Group 95 – Gener Standardized Parts	al Use									
		9501 BULK MATI	ERIAL									
РО		Rubber Sponge	74951	NX502B-1	ft.		*	*	*	*		
PO		Tape, P.S.	53853	6818	rl.	4						
		Group 99 — Parts I 9901 — Parts Pecu than one applicatio	Peculiar liar with r on	more								
мо		Gasket, Vertical	53853	5805	ft.		8	20	40	84		
РО		Gasket, Bottom	53853	5806	ft.		8	20	40	84		
MO		Gasket, Top	53853	5803	ft.		8	20	40	84		
РО		Camlock	53853	90021	ea.		*	*	*	*		
:												

(1)	(2)		(3)				15	(-Day Or Mainter	6) ganizati nance alv	o nal v	(IL tra	7) lus- tion
SMR code	Federal/National stock number	ERef number & mfr code	Description	Usabl on code	e- 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 3 — Repair Organi	Parts Lizzational	st for Level	ea.							
		Part	П									
		Type I Assemblies			ea.							
		Group 80 – Storag Compo	e Equipr onents	nent	ea.							
		8000 – Refrigerato	r Wareh	ouse								
X20		Floor Racks, Large	53853	90023	ea.	*	*	*	*	*	D7	2
X20		Floor, Racks, Small	53853	90022	ea.	*	*	*	*	*	D7	1
X20		Panel, CL, Left Ceiling	53853	90118	ea.	*	*	*	*	*	D1	2
X20		Panel FL, Left Floor	53853	90117	ea.	*	*	*	*	*	D1	2
РО		Camlock	53853	90021	ea.	*	*	*	*	*	D4	12
РО		Drain, Inside	53853	90131	ea	*	*	*	*	*	D2	5
PO		Drain, Outside	53853	90130	ea.	*	*	*	*	*	D2	10
МО		Gasket, Panel, Fab From				*					D4	6
MO		Rubber, Sponge 50'8" required for	74951 each gas	NX502B-1 _{ket}	ft.	SE	E GR	P 95	01			
РО		Screw, Camlock Mtg.	87308	C003	ea	*	*	*	*	*	D4	13
PO		Screw, Drain Mtg.	87308	C005	ea	*	*	*	*	*	D2	9
PO		Screw, Strainer Mtg.	87308	C005	ea	*	*	*	*	*	D2	4
PO		Strainer, Inside	53853	90132	ea	•	*	*	*	*	D2	3
X20		Panel, CR, Right Ceiling	53853	90120	ea	*	*	*	*	*	D1	2
X20		Panel, FR, Right	53853	90119	ea	*	*	*	*	*	D1	2

(1)	(2)		(3)					(6) 15-Day Organizational Maintenance alw				7) lus- tion
SMR code	Federal/National stock number	Ref number & mfr code	Description	Usabl on code	e- 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
MO		Gasket, Panel Fab From									D4	6
MO		Rubber, Sponge 50'8'' required for	74951 each gasl	NX502B-1 ket	ft.		SEE	GRI	950°	01		
РО		Screw, Camlock Mtg.	87308	C003	ea.	*	*	*	*	*	D4	13
X20		Panel A, Corner	53853	90113	ea.						D1	9
MO		Gasket, Panel, Fab From									D4	6
мо		Rubber, Sponge 13' required for ea	74951 ch gasket	NX502B-1	ea.		SEE	GRI	950 °)1		
РО		Camlock	53853	90021	ea.	*					D4	12
X20		Panel B, Wall	53853	9 0114	ea.	*					D1	10
MO		Gasket, Panel Fab From				Re	F				D4	6
MO		Rubber Sponge 13'2'' required for	74951 each gasl	NX502B-1 ket	ft.		SEE	GR	950)1		
РО		Camlock	53853	90021	ea.		SEE	GR	990)1	D4	12
X20		Panel C, Door	53853	90106	ea.	*					D1	8
MO		Gasket, Panel Fab From				Re	f				D4	6
MO		Rubber Sponge 13' required for eac	74951 ch gasket	NX502B-1	ft.		SEE	GRP	950	1		
РО		Camlock	53853	90021	ea.	*					D4	12
РО		Cover, Pilot Light	53853	25-1-SGS-	ea.						D4	24
РО		Pilot Light	53853	477-6063- MDSI	ea.						D4	27

(1)	(2)		(3)			(5)	15	() -Day Or Mainten	(7) Illus- tration			
SMR code	Federal/National stock number	E Ref number & mfr code	D e scription	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		Receptacle, Power	74545	7486	ea.						D4	
PO	1	Plug, Power	74545	7484	ea.						D4	27
PO		Boot, Receptacle	74545	7440	ea.						D4	
PO		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.				i		D3	4
мо		Rubber Sponge 18'4'' required for e	each gasl	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, Evaporato	r 53853	90115	ea.						D1	1
MO		Gasket, Panel Fab From									D4	6
MO		Rubber Sponge 13" required for ea	7 49 51 ch gaske	NX502B-1 t	ft.		SEE	GRF	950	1		
PO		Camlock	53853	90021	ea.		SEE	GRF	990	1	D4	12
PO		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	74951 each gas	NX502B-1 ket	ft.		SEE	GRF	950	1		

(1)	(2)		(3)			(5)	15	(-Day Or Mainter	6) ganizatio ance alv	u nal v	(7) Illus- tration		
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		Camlock	53853	90021	ea.		SEE	GRI	990	91	D4	12	
PO		Drain, Inside	53853	90131	ea.						D2	5	
РО		Drain, Outside	53853	90130	ea.						D2	10	
PO		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 gas	NX502B-1 ket	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	al Use ardized P	arts	ea.								
		9501 – Bulk Mater	rial		ea.			l					
PO		Rubber, Sponge	74951	NX502B-1	ft.		*	*	*	*			
		Group 99 — Parts F	Peculiar										
		9901 – Parts Pecu than one a	liar with pplicatior	more า	ea.								
PO		Camlock	53853	90021	ea.								

(1)	(2)	(3) Description			(4)	(5)	(6) 15-Day Organizational Maintenance alw			o nal	(7) Illus- tration	
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 3 – Repair Organ	Parts List izational Le	for evel	ea.							
		Comp	onents	nt	ea.							
		8000 - Refrigerato	or Warehous	se								
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, Fab From										
MO		Rubber Sponge 50'8'' required for	74951 N each gasket	X502B-1 t	ft.		SEE	GRI	950)1		
РО		Camlock	53853 90	0021	ea.		SEE	GRI	990	1		
PO		Drain, Inside	53853 90	0131	ea.		*	*	*	*		
PO		Drain, Outside	53853 90	0130	ea.		*	*	*	*		
PO		Drain, Strainer	53853 90	0132	ea.		*	*	*	*		
X20		Floor Panel, FR	53853 90	0119	ea.		*	*	*	*	D1	2
X20		Floor Panel, FC	53853 90	0112	ea.		*	*	*	*	D1	3
MO		Gasket, Fab From										
MO		Rubber Sponge 50'8" required for	74951 Nž each gasket	X502B-1	ft.		SEE	GRF	950)1		
РО		Camlock	53853 90	0021	ea.		SEE	GR	990	1		
		Group 95 – Genera Standa	al Use ardized Part	ts	ea.							
		9501 – Bulk Mater	ial									
PO		Rubber Sponge	74951 N	X502B-1	ft.		*	*	*	*		
	I	I			i 1		1		ļ			1

(1)	(2)	(3)		(4)	(4) (5) Unit Oty	15	(6) 15-Day Organizational Maintenance alw			(7) Hlus- tration		
SMR code	Federal 'National stock number	Descrip Ref number & mfr code	tion	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.
		Group 99 – Parts Peculi	iar									
		9901 — Parts Peculiar w than one applic	ith more ation		ea.							
РО		Camlock 538	353 90021		ea.		*	*	*	*		
									ĺ			

(1)	(2)		(3)			(5)	15-	() Day Or <u>(</u> Mainten	5) ganizatio ance alw	ənal '	(7) Illus- tration	
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 Direct	Parts List for Support Level		ea.							
		Part I										
		Group 11 – Body (and Ad	Chassis or Hull ccessory Items	,	ea.							
X20		Door, Walk-in	53853 9010)5	ea.		*	*	*	*	D3	1
MO		Gasket, Door Fab From									D3	4
MO		Rubber Sponge 18'4'' required for	74951 PHD each gasket	502N-1	ft.		SEE	GR	950°)1		
X20		Hinge, Door	32761 1245	5	ea.		*	*	*	*	D3	7
РО		Latch Assembly	32761 K-56		ea.		*	*	*	*	D3	2
РО		Screw, Hinge Mtg.	87308 C004	ł	ea.		×	*	*	*	D3	8
РО		Screw, Latch Mtg.	87308 C004	l	ea.		*	*	*	*	D3	3
X20		Panel A, Corner	53853 9011	3	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 eac	74951 NX5 ch gasket	02B-1	ft.		SEE	GRF	950)1		
PO		Screw, Camlock Mtg.	87308 C003	3			*	*	*	*	D4	13
X20		Panel B, Wall	53853 9011	4	ea.		*	*	*	*	D1	10
РО		Camlock	53853 9002	21	ea.		SEE	GRF	990	1	D4	12
MO		Gasket Panel, Fab From									D4	6
MO		Rubber Sponge 13'2" required for	74951 NX5 each gasket	02B-1	ft.		SEE	GRF	950	1		
PO		Screw, Camlock Mtg.	87308 C003	3	ea.		*	*	*	*	D4	13
X20		Panel C, Door	53853 9010	06	ea.		*	*	*	*	D1	8
										ļ		

(1)	(2)	(3)			(4)	(5)	(6) 15-Day Organizational Maintenance alw				(7) Illus- tration	
SMR code	Federal/National stock number	D Ref number & mfr code	escription	Usable- on code	Unit of meas	Qty inc in unit	(a)]-5	(b) 6-20	(c) 21-50	(d) 51-100	(a) Fig. No.	(b) Item No.
X20		Canopy Door	53853	90024	ea.	*	*	*	*	*	D1	6
PO		Cap, Receptacle	74545	4884	ea.	*	*	*	*	*	D4	22
PO		Boot, Receptacle	74545	7440	ea.	*	*	*	*	*	D4	21
PO		Receptacle	74545	7484	ea.	*	*	*	*	*	D4	18
РО		Camlock	53853	90021	ea.		SEE	GRI	990	01	D4	12
PO		Pilot Light Assembly	53853	477-6063- MDSI	ea.	*	*	*	*	*	D4	24
РО		Cover, Pilot Light	53853	25-1-SGS-	ea.	*	*	*	*	*	D4	24
РО		Light Assembly	87518	VBB100PC	ea.	*	*	*	*	*	D4	4
РО		Switch	74545	1251	ea.	*	*	*	*	*	D4	16
PO		Switch, Cover	74545	1750	ea.	*	*	*	*	*	D4	26
РО		Thermometer	64467	7269	ea.	*	*	*	*	*	D4	14
PO		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
PO		Screw, Thermom- eter Mtg.	87308	C005	ea.	*	*	*	*	*	D4	5
X20		Panel D, Evaporator	53853	90115	ea.	*	*	*	*	*	D1	1
РО		Wrench, Hexagon	32761	1145	ea.	*	*	*	*	*	D1	19
РО		Camlock	53853	90021	ea.	*	*	*	*	*	D4	12
PO		Clip, Panel Wrench	75915	105002	ea.	*	*	*	*	*	D1	18
мо		Gasket, Panel Fab From									D4	6
мо		Rubber Sponge 13' required for eacl	74951 h gasket	NX502B-1	ft.		SE	GR	99 99	01		
РО		Screw, Camlock	87308	C003	ea.						D4	13

(1)	(2)		(3) (4 Description Un				(5)	15	(-Day Or; Mainten	6) ganizatio ance alv	onal ((IL tra	7) Jus- ition
SMR code	Federal/National stock number	E Ref number & mfr code	Hescription		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) Iten No
PO		Screw, Clip Mtg.	87308	C005		ea.						D4	5
X20		Thermal Strip Horizontal Masonite, Fab From	53853	90110		ea.							
0		Building Board, Hard Pressed, Vegetable Fiber 5" x 38" required f Thermal Strip	or each			ea.							
(20		Thermal Strip, Vertical Masonite Fab From	53853	90111		ea.							
0		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
0		Bolt, Barrel	53853	4842		ea.	*	*	*	*	*	D1	15
90		Gasket, Bottom	53853	5806		ft.		SEE	GRI	990 °	1	D1	11
ON		Gasket, Top	53853	5803		ft.	*	*	*	*	*	D1	4
NO		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, Barrei	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
PO		Screw, Barrel	87308	C001		ea.	*	*	*	*	*	D1	16

(1)	(2)		(3) Description			(5)	(6) 15-Day Organizational Maintenance alw			onal v	(7) Hlus- tration		
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	(đ) 51-100	(a) Fig. No.	(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	GRF	990	1	D1	11	
MO		Gasket, Top	53853	5803	ft.	*	*	*	*	*	D1	4	
MO		Gasket, Vertical	53853	5805	ft.	*	*	*	*	*	D1	5	
PO		Screw, Barrel Bolt Mtg.	87308	C001	ea.	*	*	*	*	*	D1	16	
MO		Gasket, Vertical	53853	5804	ft.		SEE	GRI	990	91	D1	13	
		Group 95 – Gener Standa	al Use ardized P	arts	ea.								
		9501 – Bulk Mate	rial		ea.								
РО		Rubber Sponge	74951	NX502B-1	ft.								
РО		Tape, PS	53853	6818	ea.								
		Group 99 – Parts	Peculiar										
		9901 – Part Peculi than one a	ar with n pplicatio	nore n	ea.								
мо		Gasket, Vertical	53853	5805	ft.		40	40	84	168			
РО		Gasket, Bottom	53853	5806	ft.		40	40	84	168			
MO		Gasket, Top	53853	5803	ft.		40	40	84	168			
РО		Camlock	53853	90021	ea.		*	*	*	*			
					1								

(1)	(2)	(3) D es cription				(4)	(5)	15	(-Day Or Mainten	6) ganizatio ance alv	o nal v	(7) Illus- tration	
SMR code	Federal/National stock number	E 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 Li Support	ist for t Level		ea.							
		Part I	1										
		TYPE I - ASSEN	ABLIES										
		Group 80 – Storage Compo	e Equipr onents	ment		ea.							
		8000 - Refrigerato	r Wareh	ouse		ea.							
X20		Floor, Racks, Large	53853	90023		ea.	*	*	*	*	*	D7	2
X20		Floor, Racks, Small	53853	90022		ea.	*	*	*	*	*	D7	1
X20		Panel, CL, Left Ceiling	53853	90118		ea.	*	*	*	*	*	D1	2
X20		Panel, FL, Left Floor	53853	90117		ea.	*	*	*	*	*	D1	2
РО		Camlock	53853	90021		ea.		SEE	GRI	990	1	D4	12
РО		Drain, Inside	53 8 53	90131	i	ea.	*	*	*	*	*	D2	5
PO		Drain, Outside	53853	90130		ea.	*	*	*	*	*	D2	10
PO		Strainer, Inside Drain	53853	90132		ea.	*	*	*	*	*	D2	3
MO		Gasket, Panel Fab From										D4	6
MO		Rubber Sponge 50'8'' required for e	74951 each gas	NX502 ket	B-1	ft.		SEE	GRI	950	01		
PO		Screw, Camlock Mtg.	87308	C003		ea.	*	*	*	*	*	D4	13
PO		Screw, Drain Mtg. Mtg.	87308	C005		ea.	*	*	*	*	*	D2	9
PO		Screw, Strainer Mtg	. 87308	C005		ea.	*	*	*	*	*	D2	4
X20		Panel, CR, Right Ceiling	53853	90120		ea.	*	*	*	*	*	D1	
X20		Panel, FR, Right Floor	53853	90119		ea.	*	*	*	*	*	D1	
(1)	(2)		(3)		(4)	(5)	15	(-Day Or Mainter	6) ganizati nance alv	onal v	I tra	(7) Nus- ation	
-------------	--------------------------------------	--	--------------------	------------------------------------	--------------------	--------------------------	------------	-------------------------	-----------------------------	---------------	--------------------	----------------------	
SMR code	Federal 'National stock number	Ref number & mfr code	Description	Usable - on cod e	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	þ 1	D4	12	
MO		Gasket, Panel Fab From											
MO		Rubber Sponge 40'8'' required for e	74951 each gasl	NX502B-1 ket	ft.		SEE	GRI	950	91			
PO		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	
РО		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	
РО		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, Verticał	53853	5805	ft.	*	*	*	*	*	D1	5	
РО		Screw, Barrel Bolt Mtg.	87308	C001	ea.	*	*	*	*	*	D1	16	
мо		Gasket, Vertical	53853	5804	ft.	*	*	*	*	*	D1	13	
X20		Panel A, Corner	53853	90113	ea.						D1	9	
мо		Gasket, Panel Fab From									D4	6	
								1			ļ		

Change 10 D-19

(1)	(2)		(3)		(4)	(5)	(6) 15-Day Organizational Maintenance alw		(7) Illus- tration			
SMR code	Federal/National stock number	I 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 13' required for eac	74951 ch gasket	NX502B-1	ft.		SEE	GRI	950 °)1		
PO		Camlock	53853	90021	ea.						D4	12
X20		Panel B, Wall	53853	90114	ea.						D1	10
мо		Gasket, Panel Fab From									D4	6
MO		Rubber Sponge 13'2'' required for	74951 each gas	NX502B-1 ket	ft.		SEE	GRI	950 °	01		
PO		Camlock	53853	90021	ea.						D4	12
X20		Panel C, Door	53853	90106	ea.						D1	8
MO		Gasket, Panel Fab From									D4	6
MO		Rubber Sponge 13' required for eac	7 4951 ch gasket	NX502B-1	ft.		SEE	GR	950 °	1		
PO		Camlock	53853	90021	ea.						D4	12
РО		Cover, Pilot Light	53853	25-1-SGS- MDSI	ea.						D4	24
PO		Receptacle, Power	74545	7486	ea.						D4	1
PO		Plug, Power	745 4 5	7484	ea.						D4	27
PO		Boot, Receptacle	74545	7440	ea.						D4	
PO		Switch	74545	1251	ea.						D4	16
PO		Vapor Proof Light	87518	VBB100PC	ea.						D4	4
X20		Door, Walk-in	53853	90105	ea.						D3	1
MO		Gasket, Door Fab From									D3	4
MO		Rubber Sponge 18'4" required for e	74951 each gasl	PHD502N-1 ket	ft.		SEE	GRF	950	1		
РО		Latch Assembly	32761	K-56	ea.						D3	2
PO		Hinge	32761	1245	ea.						D3	7
X20		Canopy	53853	90024	ea.						D6	6

(1)	(2)		(3)		(4)	(5)	(6) 1S-Day Organizational Maintenance alw				(7) Illus- tration	
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 D, Evaporato	or 53853	90115	ea.						D1	1
MO		Gasket, Panel Fab From									D4	6
MO		Rubber Sponge 13' required for eac	74951 ch gaske	NX502B-1 t	ft.		SEE	GRP	950	1		
РО		Camlock	53853	90021	ea.		SEE	GRP	990	1	D4	12
РО		Clip, Wrench	75915	105002	ea.						D1	18
РО		Wrench, Hexagon	32761	1145	ea.						D1	19
		Group 95 – Genera Standa	al Use ardized F	Parts	ea.							
		9501 – Bulk Mater	ial		ea.							
РО		Rubber Sponge	749 51	NX502B-1	ft.	*	*	*	*	*		
		Group 99 – Parts P	eculiar		ea.							
		9901 – Parts Peculi than one ap	ar with plication	more า	ea.							
РО		Camlock	53853	90021	ea.	*	*	*	*	*		
1											ļ	

TM 5-4110-204-13

(1)	(2)		(3)			(5)	15	(6) 15-Day Organizational Maintenance alw		(7) Illus- tration		
SMR code	Federal/National stock number	I 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 Support Lev	vel	ea.							
		Part I	11									
		TYPE II – ASSE	EMBLIES									
		Group 80 – Storag	e Equipment		ea.							
		8000 — Refrigerato	or Warehouse		ea.							
X20		Floor Rack, Large	53853 90023		ea.	*	*	*	*	*	D7	2
X20		Floor Rack, Small	53853 90022		ea.	*	*	*	*	*	D7	1
X20		Floor Panel, FL	53853 90117		ea.	*	*	*	*	*	D1	2
MO		Gasket, Panel Fab From										
MO		Rubber Sponge 50'8'' required for (74951 NX502 each gasket	2B-1	ft.		SEE	GRI	950 P	01		
РО		Camlock	53853 90021		ea.		SEE	GRI	990	1		
РО		Drain, Inside	53853 90131		ea.	*	*	*	*	*		
РО		Drain, Outside	53853 90130		ea.	*	*	*	*	*		
РО		Drain, Strainer	53853 90132		ea.	*	*	*	*	*		
X20		Floor Panel, FR	53853 90119		ea.	*	*	*	*	*	D1	2
X20		Floor Panel, FC	53853 90122		ea.	*	*	*	*	*	D1	3
MO		Gasket, Panel Fab From										
MO		Rubber Sponge 50'8'' required for e	74951 NX502 each gasket	B-1	ft.		SEE	GR	950 °	01		
РО		Camlock	53853 90021		ea.		SEE	GR	990 °	01		
		Group 95 – Genera Standa	l Use rdized Parts		ea.							
		9501 – Bulk Materi	ial		ea.							
					ļ							

(1)	(2)	(3) (4)		(3) (4)		(5)	15	(-Day Or Mainter	6) ganizatio	onal	() []] tra	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.
РО		Rubber Sponge	74951	NX502B-1	ft.	*	*	*	*	*		
		Group 99 – Parts	Peculiar		ea.							
		9901 – Parts Pecu than one a	ıliar with applicatio	more n	ea.							
РО		Camlock	53853	90021	ea.	*	*	*	*	*		
					i I							



Figure 1. Compartment Panels INDEX TO PARTS, FIGURE 1

R E F	FUNCT	ITEM	REF	FUNCT	ITEM	REF	FUNCT	ITEM
NO.	GROUP	NAME	NO.	GROUP	NAME	NO.	GROUP	NAME
1 2	8000 8000	PANEL D PANEL FL, FR. CR	8 CL, 9 10	8000 8000 8000	PANEL C PANEL A PANEL B	14 15 16	8000 8000 8000	PANEL H-3 BOLT SCREW
3	8000	PANEL FC, CC	2 11	8000	GASKET	1 7	8000	SCREW
4	8000	GASKET	12	8000	PANEL H-1	18	8000	CLIP
5 6 7	8000 8000 8000	GASKET CANOPY PANELG	13	8000	GASKET	19	8000	ALLEN WRENCH



```
MSC 4110-204-25P/2
```

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 NO.	FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1	8000	DOOR			
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.	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)

ME 4110-204-13/5 C2



MSC 4110-204-25P/6

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

REF NO.	. FUNCT GROUP	ITEM NAME	REF NO.	FUNCT GROUP	ITEM NAME
1 2 3 4 5 6 7 8 9	8000 8000 8000 8000 8000 8000 8000 800	STRIP CURTAIN SCREW HANDLE GASKET CANOPY SCREW BAR ROLLER AY	10 11 12 13 14 15 16 17 18	8000 8000 8000 8000 8000 8000 8000 800	SCREW SCREW HINGE BRACKET SCREW SCREW LATCH SCREW SCREW
•					



MSC 4110-204-25P/7

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	RAMP

INDEX

Basic issue tools and equipment	Paragraph 3-2	Page 3-1
Controls and instruments: Controls and instruments General Conveyor door Conveyor door curtain	2-9 2-8 3-23 3-26 3-27 3-24 3-25 3-6 1-4, 4-4 1-3	2-6 2-6 3-7 3-8 3-8 3-7 3-8 3-1 1-5, 4-1 1-1
Description and data: Description Differences in models Identification and tabulated data Differences in models Direct support maintenance repair parts Dismantling for movement Drains inoperative Drain strainer	1–3, 4-3 1-5 1-4 1-6 5-2 2-6 3-13 3-32	1-1, 4-1 1-9 1-5 1-9 5-1 2-6 3-6 3-10
Electrical components: General	3–15 3-19 3–17 3–18 3-16	3-6 3-6 3-6 3-6 3-6
General: Controls and instruments Direct support maintenance and instructions Electrical components Operation of equipment Operators maintenance Refrigerator components Troubleshooting	2-8 5-4 3-15 2-10 3 - 8 3-20 3-11	2-6 5-1 3-6 2-6 3-1 3-7 3-5
Identification and tabulated data Inspecting and servicing equipment Installation and setting-up instructions Installation of separately packed components Light inoperative Light switch Lubrication and preventive maintenance services:	1-4 2-3 2-4 2-5 3-12 3-19 3 - 4	3-5 2-1 2-1 2-1 3-6 3-6 3-1
Daily preventive maintenance services	3-6 3-4 3–5 3-7	3-1 3-1 3-1 3-1
Movement to anew worksite: Dismantling for movementReinstallation after movement	2-6 2-7	2-6 2-6

I-1

	Paragraph	Page
Operation in a salt water area	2-18	2-6
General	2-10	2-6
Operation in a saltwater area	2-13	2-6
Operation under rainy or humid conditions	2-12	2-6
Operation under usual conditions	2-12 2-11	2-0
Operation under rainy or humid conditions	2-12	2-6
operation under usual conditions	2.12	26
Operation under usual conditions	_2-11	2-0
Basic issue tools and equipment	3-2	3-1
Organizational maintenance renair narts	3-3	2 1
Special tools and equipment	_ 0-0 _ 3_1	2 1
	_0-1	3-1
General	3-8	3-1
	3-10	3-5
Refrigerator light land	3-9	8-6
Organizational maintenance renair parts	3-3	8-1
	_ 0 0	0-1
Panel clamp assemblies	3-29	3-8
Pilot light	3-17	3-8
Pilot light lamp	_ 3-10	3-8
Plug receptacle	3-18	3-8
Prefabricated refrigerator	5-5	5-1
Preventive maintenance services, general	8-6	3-1
Quarterly preventive maintenance services	_ 8-7	3-1
Record and report form	1-2, 4-2	1-1, 4-1
Convoyor door	2.22	3-7
	3-27	3-8
Conveyor door curtains	3-26	3-8
Conveyor door curtains	3-24	3-7
Conveyor door roller	3-25	3-8
Drain strainer	3-32	3-10
Ganaral	3-20	3-7
Panal clamp assemblies	3-20	3-8
Patriagrator papels and door seals	3-28	3-8
Refrigerator panels	3-30	3-8
Slide holts	3-33	3-10
Thermometer	3-31	3-10 3-10
Walk in door	3-21	3-7
Walk in door handles and latch	3-22	3-7
	5-22	5-7
Refrigerator light assembly	3-16	3-6
Refrigerator light lamp	3-9	3-5
Refrigerator panel and door zeals	3-28	3-8
Refrigerator panels	3-30	3-8
Refrigerator, Prefabricated	5-5	6-1
Reinstallation after movement	2-7	2 - 6
Repair parts, direct support maintenance	5-2	5-1
Rapair parts, organizational maintenance	3-3	3-1
scope	1-4, 4-1	1-5, 4-1
Service upon receipt of equipment:	2-3	2.4
Inspecting and servicing equipment	24	∠-1 2.4
Installation and setting-up instructions	∠-4 2-5	∠-1
installation of separately pack components	2 0	2-1
Unloading the equipment	2-1	2-1
Unpacking the refrigerator	2-2	2-1
Slide bolts	3-33	3-10
Specially designed tools and equipment	5-3	5-1
Special tools and equipment	3-1, 5-1	3-1, 5-1

F	aragraph	Page
Tabulated data	1-4	1-5
Thermometer	3-31	8-10
Troubleshooting:	3-13	3-6
General	3-11	3-5
Light inoperative	3-12	3 - 6
Walk-in and conveyor door not closing properly	3-14	3-6
Unloading the equipment	2 - 1	2-1
Unpacking the refrigerator	2 - 2	2-1





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

				PAN	EL S	CHE	DULE, 1	ΓΥΡΕ Ι									
IDENTIFYING	ACTUAL	PANEL	PAN		ESIG	NATI		D NO. RI	EQUI	RED							
SIZE	CU. FT.		A	В	С	D	EL	ER	F	G*	H-1	<u>++2</u>	н-3	J	TOTAL	FLOOR	RACK
		NU. REQ D														LG	SM
600	625	102	4	8	1	1	2	2	2	1	0	0	0	1	20	2	4
1200	1220	150	4	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	39	10	4
4000	4 194	390	4	22	4	4	2	2	26	4	3	3	3	4	77	26	4
			Ť													[

PANEL DESIG.	NOMENCLATURE	DRG. NO.
A	CORNER PANEL	5-13-2653
В	STD. WALL PANEL	5-13-2654
C I	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

ME 4110-204-13/4-1 C5



				PANE	EL SC	HED	ULE	, TYP	E II					
	Αςτυαι	PANEL				PAN	IEL	DESIG	NATI	ON A	ND N	IO. REQUIRED		
SIZE	CU. FT.	NO. REQ'D	L	A	в	C*	D	KL	KR	м	G*	TOTAL	H-1	H-3
400	405	84	2	4	5	T	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

* 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
â	WALK-IN DOOR PANEL	5-13-1141
L L	WALK-IN DOOR	5-13-1142
• D, M •1,	UNIT COOLER PANEL	5-13-1877
KL	FLOOR OR CEILING PANEL	5-13-1333
KR	FLOOR OR CEILING PANEL	5-13-1394
м	FLOOR OR CEILING PANEL, CENTER	5-13-1335
N	PARTITION	5-13-1149

MEC 4110-204-13/4-2

By Order of the Secretary of the Army:

Official:

KENNETH G. WICKHAM, Major General, United States Army, The Adjutant General.

Distribution:

Active Army: USASA (2) ACSI (1) DCSLOG (1) CNGB (1) TSG (1) CofEngrs (3) CC-E (1) Dir of Trans (1) CofSptS (1) USAMB (1) USAARTYBD (2) USAARMBD (2) USAIB (2) USAADBD (2) **USAAESWBD** (2) **USAAVNBD** (2) USCONARC (3) OS Maj Comd (5) except USASETAF (2) USARJ (1) USAMC (1) MDW (1) Armies (2) Corps (2) Div (2) Engr Bde (1) Svc Colleges (2) Br Svc Sch (2) USACDCEC (10) USMA (2)

HAROLD K. JOHNSON, General, United States Army, Chief of Staff.

Gen Dep (10) Engr Dep (10) A Dep (2) except TOAD (3) USA Tml Comd (2) Army Tml (1) Div Engr (2) Dist Engr (2) USAERDL (3) USAMEC (46) Engr Cen (5) USAREUR Engr Proc Cen (2) USAREUR Engr Sup Con Agcy (10) Engr FLDMS (2) Ft Knox FLDMS (10) Fld Comd, DASA (8) AMS (3) **USAREURCOMZ** (2) USAC (1) MAAG (1) **JBUSMC** (1) Units org under fol TOE: (2 copies each UNOINDC) 5-48 5-237 (5) 5-262 (5) 5-267 (1) 5-278 (5) 5-279

NG: State AG (3).

USAR: Same as Active Army except allowance is one copy to each unit.

For explanation of abbreviations used, see AR 320-50.

★ U. S. GOVERNMENT PRINTING OFFICE : 1990 0 - 261-888 (22690)

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL MANUALS SOMETHING WRONG WITH THIS MANUAL? FROM: (YOUR UNIT'S COMPLETE ADDRESS) THEN. . . JOT DOWN THE PFC JOHN DOE DOPE ABOUT IT ON THIS COA, 3ª ENGINEER BN FORM, TEAR IT OUT, FOLD IT AND DROP IT IN THE FT. LEONARD WOOD MO 63108 MAIL! DATE 16 DEC 74 PUBLICATION NUMBER DATE TITLE GENERATOR SET 10 KW TM 5-6115-200-20 AND P IAPR 72 NSN 6115-00-231-7286 BE EXACT. . . PIN-POINT WHERE IT IS IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DOWE ABOUT IT: PAGE TABLE PARA FIGURE NO. NO. GRAPH NO. In line 6 of paragraph 2-1a the 2-1 6 manual states the engine has 6 a cylinders. The engine on my set only has 4 cylinders. Change manual teshow 4 cylinders fout to on figure 4-3 is pointing a bolt. In the key to 4-3, item 16 is called a 81 4-3 shim. Please correct one or the other I ordered a gasket, item 19 on 125 line 20 liquie B-16 by NSN 2910-00-762-3001. got a gasket but it doesn't fit supply says I got what I sidered so the NSN is wrong. Please give me a good NSN YPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER SIGN HERE: JOHN DOE, PFC (268) 317-7111 ohn Nol FORM 2028-2 (TEST) P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR MANUAL "FIND," MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

7.			S	OME	THI	NG	WRONG WITH THIS	MANUAL
			THEN. DOPE / FORM, IT AND MAIL!	JOT DOWN NBOUT IT ON TEAR IT OU DROP IT IN	THE THIS T, FOLD THE	FROM: (YOUR UNIT'S COMPLETE ADDRESS)	
UBLICAT	TION NUMBE	R			DATE		TITLE	
YPED NA	ME, GRADE	ORTITLE	, AND TE	LEPHONE NUM	IBER	SIGN HE	RE:	

FILL IN YOUR

FOLD BACK

- ----

DEPARTMENT OF THE ARMY

_ _ _ _ _ _

Commander U.S. Army Troop Support Command ATTN: AMSTS-MPP 4300 Goodfellow Boulevard St. Louis, Missouri 63120

- --- -

1

TEAR ALONG DOTTED LINE

1

FOLD BACK

REVERSE OF DA FORM 2028-2 (TEST)

THE METRIC SYSTEM AND EQUIVALENTS

'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

VEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces 1 Kilogram = 1000 Grams = 2.2 lb.

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

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

APPROXIMATE CONVERSION FACTORS

TO CHANCE	10	
		MULTIPLT BT
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	
nts	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons.	Metric Tons	0 907
Pound-Feet	Newton-Meters	1 356
Pounds per Square Inch	Kilonascals	6 895
Miles per Gellon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1 609
since per nour	Infometers per fibur	1.005
TO CHANGE	то	MULTIPLY BY
TO CHANGE Centimeters	TO Inches	MULTIPLY BY 0.394
TO CHANGE Centimeters Meters	TO Inches Feet	MULTIPLY BY 0.394 3.280
TO CHANGE Centimeters Meters. Meters.	TO Inches Feet Yards	MULTIPLY BY 0.394 3.280 1.094
TO CHANGE Centimeters Meters. Meters. Kilometers	TO Inches Feet Yards Miles	MULTIPLY BY 0.394 3.280 1.094 0.621
TO CHANGE Centimeters Meters Kilometers Square Centimeters	TO Inches Feet Yards Miles Souare Inches	MULTIPLY BY 0.394 3.280 1.094 0.621 0.155
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters.	IO Inches Feet Yards Miles Square Inches Square Feet	MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Meters.	IO Inches Feet Yards Miles Square Inches Square Feet Souare Yards	MULTIPLY BY 0.394 3.280 1.094 0.621 0.155 10.764 1.196
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Meters. Square Meters. Square Meters. Square Kilometers	IO Inches Feet Yards Miles Square Inches Square Feet Square Yards Sourre Miles	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Square Centimeters Square Meters. Square Meters. Square Meters. Square Meters. Square Meters. Square Hectometers. Square Hectometers.	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcres	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Meters. Square Meters. Square Hectometers Cubic Meters.	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic Feet	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Milometers Square Centimeters Square Meters. Square Kilometers. Square Hectometers Cubic Meters. Cubic Meters.	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic Yards	MULTIPLY BY
TO CHANGE Centimeters Meters Meters Square Centimeters Square Meters Square Meters Square Kilometers Square Hectometers Square Hectometers Cubic Meters Cubic Meters Milliliters	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid Ounces	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Meters. Square Meters. Square Meters. Square Hectometers. Square Hectometers Cubic Meters Cubic Meters Milliliters Liters	TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Fluid Ounces Fluid Ounces Pints	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Meters. Square Meters. Square Meters. Square Hectometers Square Hectometers Cubic Meters Milliliters Liters.	TO Inches Feet Yards Miles Square Inches Square Feet Square Yards Square Miles Acres Cubic Feet Cubic Feet Cubic Yards Fluid Ounces Pints Ouarts	MULTIPLY BY
TO CHANGE Centimeters Meters Meters Kilometers Square Centimeters Square Meters Square Meters Square Meters Square Meters Square Hectometers Cubic Meters Cubic Meters Milliliters Liters Liters	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsCallons	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Hectometers. Cubic Meters. Cubic Meters. Milliliters Liters. Liters. ms	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOunces	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Hectometers. Cubic Meters. Cubic Meters. Milliliters Liters. iters. ms. ograms	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPounde	MULTIPLY BY
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Hectometers Cubic Meters Cubic Meters. Liters. Liters. .ograms. Matric Three	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort Tong	MULTIPLY BY 0.394
TO CHANGE Centimeters Meters. Meters. Kilometers Square Centimeters Square Meters. Square Hectometers Cubic Meters Cubic Meters Liters. Liters. .ograms Metric Tons. Newton-Meters	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort TonsPounds	MULTIPLY BY 0.394
TO CHANGE Centimeters	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort TonsPounds - peetPounds - peet	MULTIPLY BY
TO CHANGE Centimeters Meters Meters Square Centimeters Square Meters Square Meters Square Meters Square Meters Square Kilometers Square Hectometers Cubic Meters Cubic Meters Cubic Meters Liters Liters Liters Malliliters Liters Metric Tons Newton-Meters Kilopascals	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort TonsPounds FeetPounds per Square Inch	MULTIPLY BY
TO CHANGE Centimeters	IOInchesFeetYardsMilesSquare InchesSquare FeetSquare YardsSquare MilesAcresCubic FeetCubic YardsFluid OuncesPintsQuartsGallonsOuncesPoundsShort TonsPounds per Square InchMiles per Gallon	MULTIPLY BY

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

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



PIN: 025378-010