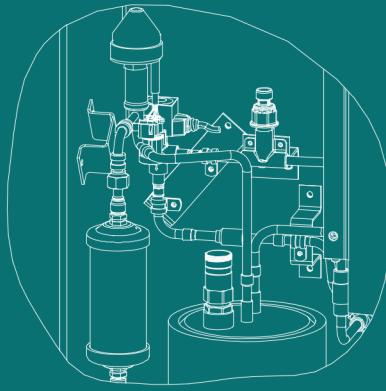
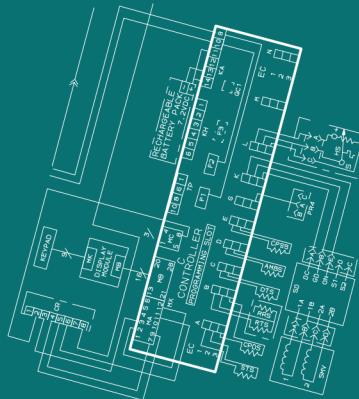




Container Refrigeration



PARTS LIST MANUAL

For
69NT40-601-001 to 099
Container Refrigeration Units

T-349PL Rev E



PARTS LIST MANUAL

For

69NT40-601-001 to 099

Container Refrigeration Units

TABLE OF CONTENTS

PARAGRAPH NUMBER	PAGE
INTRODUCTION	1
1.1 INTRODUCTION	1
1.2 CONFIGURATION IDENTIFICATION	1
1.3 FEATURE DESCRIPTIONS	1
1.4 OPTION DESCRIPTIONS	2
SERVICE PARTS LIST	3
2.1 ORDERING INSTRUCTIONS	3
2.2 LETTER DESIGNATIONS	3
3 AIR EXCHANGE KIT, UPPER - VPS PANEL	4
4 AIR EXCHANGE KIT, UPPER - BLANK PANEL	6
5 AIR EXCHANGE KIT, LOWER	8
6 BACK PANEL ASSEMBLY	10
7 BULKHEAD ASSEMBLY	11
8 BOX PREP KIT	12
9 CABLE ASSEMBLY	14
10 CABLE KIT	15
11 COMPRESSOR KIT	16
12 COMPRESSOR TUBE KIT	20
13 CONDENSER (GAS COOLER) KIT, COIL AND COVERS	24
14 CONDENSER (GAS COOLER) KIT, FLASH TANK SECTION	26
15 CONDENSER (GAS COOLER) KIT, ESV LINE TUBING	29
16 CONDENSER (GAS COOLER) KIT, HPXV LINE TUBING	30
17 CONDENSER (GAS COOLER) FAN KIT	31
18 CONTROLLER KIT	32
19 HEATER KIT	37
20 DOOR ASSEMBLY	38
21 DRAIN KIT	40
22 EVAPORATOR FAN ASSEMBLY	42
23 EVAPORATOR KIT	44
24 INTERROGATOR KIT	46
25 HUMIDITY KIT	47
26 PANEL KIT	48
27 CONTROL BOX - REMOTE MONITORING UNIT (RMU)	49
28 USDA	50
29 WIRING KIT	52
30 HARNESS - LOW VOLTAGE	56
31 HARNESS - HIGH VOLTAGE	58
32 LABELS	62
INDEX	1

SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The Carrier Transicold model 69NT40-601 series units are of lightweight aluminum frame construction, designed to fit in the front of a container and serve as the container's front wall. They are one piece, self-contained, all electric units, which include cooling and heating systems to provide precise temperature control.

The units are supplied with a complete charge of refrigerant R-744 (CO₂) and compressor lubricating oil, units are ready for operation upon installation.

The base unit operates on nominal 380/460 volt, 3-phase, 50/60 hertz (Hz) power. Power for the control system is provided by a transformer which steps the supply power down to 18 and 24 volts, single phase.

The controller is a Carrier Transicold Micro-Link 3 microprocessor (unique unit pn 12-55010). The controller will operate automatically to select cooling, holding or heating as required to maintain the desired set point temperature. The controller has a keypad and display for viewing or changing operating parameters. The display is also equipped with lights to indicate various modes of operation.

1.2 CONFIGURATION IDENTIFICATION

Unit information is provided on an identification plate located to the right of the compressor, on the back wall of the Variable Frequency Drive (VFD) section. The identification plate provides the unit model number, the unit serial number and the unit parts identification number (PID). The model number (69NT40-601-001) identifies the overall unit configuration, while the PID number provides information on specific optional equipment, factory provisioned to allow for field installation of optional equipment, and differences in detailed parts.

1.3 FEATURE DESCRIPTIONS

Control Box

Units are equipped with an aluminum control box that may be fitted with a lockable door.

Temperature Readout - Refrigerant Temperature

The unit is fitted with a compressor discharge temperature sensor (CPDS), an evaporator temperature sensor (ETS), and a gas cooler temperature sensor (GCTS).

Temperature Readout - Air Temperature

The unit is fitted with an ambient temperature sensor (AMBS), a return temperature sensor (RTS), a return record sensor (RRS), a supply temperature sensor (STS), a supply record sensor (SRS), and a defrost temperature sensor (DTS).

Pressure Readout

The unit is fitted with a suction pressure transducer (SPT), a flash tank pressure transducer (FPT), and a discharge pressure transducer (DPT). Transducer readings may be viewed on the controller display.

Compressor

The unit is fitted with a reciprocating compressor equipped with suction, discharge and mid-stage connections.

Gas Cooler / Intercooler

The unit is fitted with a Gas Cooler / Intercooler.

Evaporator

Evaporator section is equipped with an electronic expansion valve (EEV).

Evaporator Fan Operation

Units are equipped with three-phase evaporator fan motors.

Flash Tank

The unit is fitted with a flash tank.

Variable Frequency Drive (VFD)

The unit is fitted with a variable frequency drive.

Plate Set

Each unit is equipped with a tethered set of wiring schematics and wiring diagram plates. The plate sets are ordered using a seven-digit base part number and a two-digit dash number.

1.4 OPTION DESCRIPTIONS

Various options may be factory or field equipped to the base unit. These options are listed and described in the following sub-paragraphs.

Battery

The refrigeration controller may be fitted with standard replaceable batteries or a rechargeable battery pack. Rechargeable battery packs may be fitted in the standard location or in a secure location.

Dehumidification

The unit may be fitted with a humidity sensor. This sensor allows setting of a humidity set point in the controller. In dehumidification mode, the controller will operate to reduce internal container moisture level.

USDA

The unit may be supplied with fittings for additional temperature probes, which allow recording of USDA Cold Treatment data by the integral DataCORDER function of the Micro-Link refrigeration controller.

Interrogator

Units that use the DataCORDER function are fitted with interrogator receptacles for connection of equipment to download the recorded data. Two receptacles may be fitted; one is accessible from the front of the container and the other is mounted inside the container (with the USDA receptacles).

Remote Monitoring

The unit may be fitted with a remote monitoring receptacle. This item allows connection of remote indicators for COOL, DEFROST and IN RANGE. Unless otherwise indicated, the receptacle is mounted at the control box location.

Communications Interface Module

The unit may be fitted with a communications interface module. The communications interface module is a slave module, which allows communication with a master central monitoring station. The module will respond to communication and return information over the main power line. Refer to the ship master system technical manual for further information.

Handles

The unit may be equipped with handles to facilitate access to stacked containers. These fixed handles are located on either side of the unit.

Thermometer Port

The unit may be fitted with ports in the front of the frame for insertion of a thermometer to measure supply and/or return air temperature. If fitted, the port(s) will require a cap and chain.

Back Panels

Aluminum back panels may have access doors and/or hinge mounting.

460 Volt Cable

Various power cable and plug designs are available for the main 460 volt supply. The plug options tailor the cables to each customer's requirements.

Cable Restraint

Various designs are available for storage of the power cables. These options are variations of the compressor section cable guard.

Upper Air (Fresh Air Makeup)

The unit may be fitted with an upper fresh air makeup assembly. The fresh air makeup assembly is available with a vent positioning sensor (VPS) and may also be fitted with screens.

Labels

Safety Instruction and Function Code listing labels differ depending on the options installed.

SECTION 2

SERVICE PARTS LIST

2.1 ORDERING INSTRUCTIONS

All orders and inquiries for parts must include: Parts Identification Number (**PID**), Model Number, Unit Serial Number, Part Number, Description of part as shown on list and Quantity required.

For orders, go to: www.transcentral.carrier.com

For inquiries, email: carrieraftermarketparts@carrier.utc.com

2.2 LETTER DESIGNATIONS

The following letter designations are used to classify parts throughout this list:

A/R= As Required

N/A= Not Available

NS = Not shown in illustration

NSS = Not sold separately – Order next higher assembly or kit

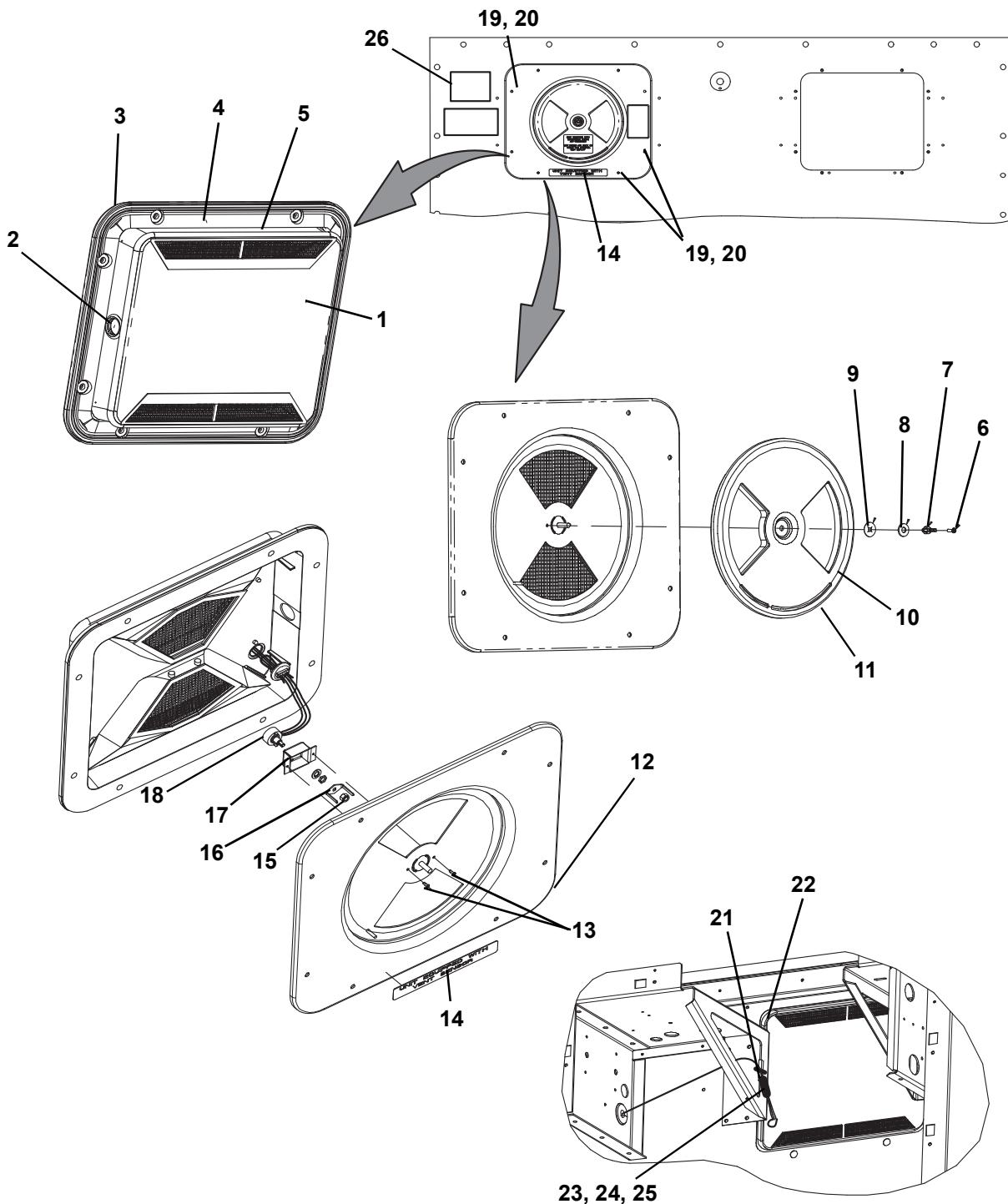
PID = Parts Identification Number – essential to identify unit configuration.

PL = Purchase Locally

SST = Stainless Steel – 300 Series unless otherwise specified.

SV = Suffix SV – added to part number designates service replacement part.

3 AIR EXCHANGE KIT, UPPER - VPS PANEL (SHEET 1 OF 2)



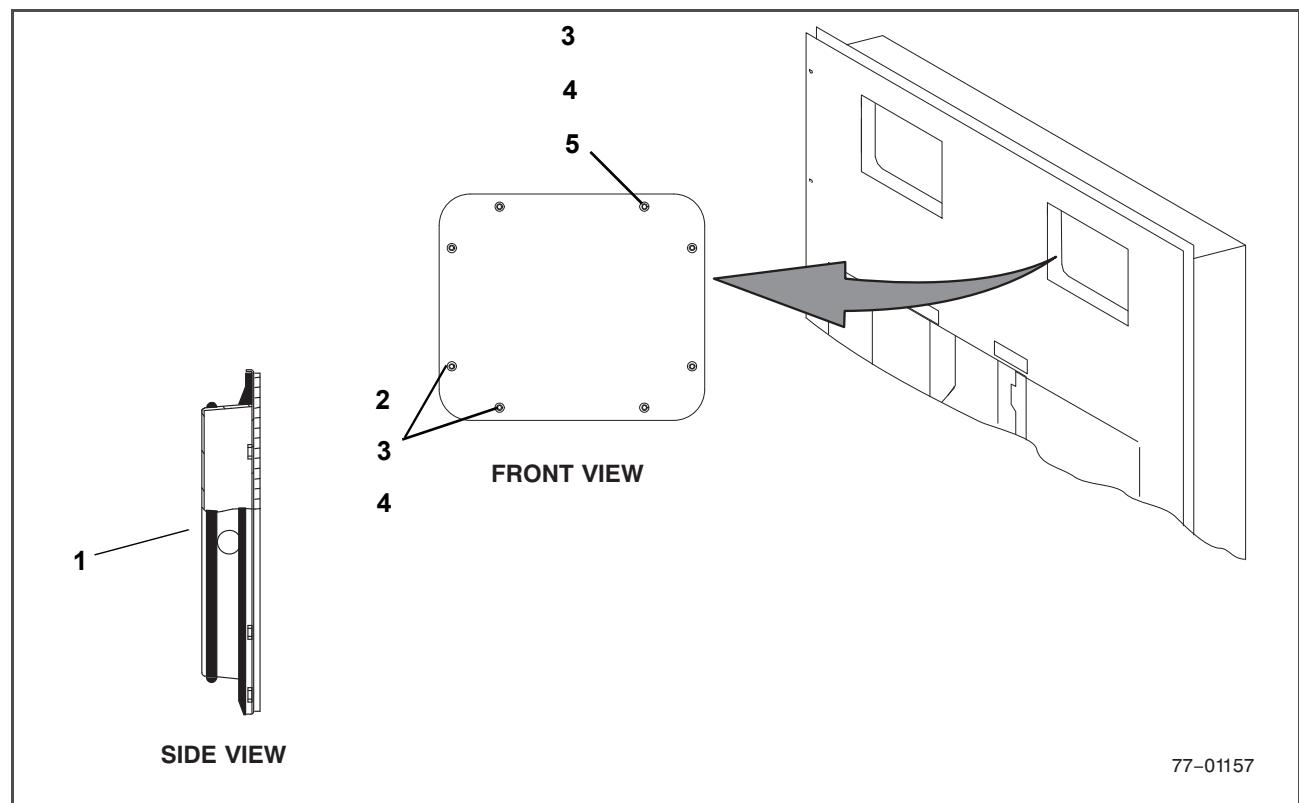
77-66668

3 AIR EXCHANGE KIT, UPPER - VPS PANEL (SHEET 2 OF 2)

Item	Part Number	Description	Qty
1	79-66626-00	Panel Assembly, Access, White – Includes:	1
2	66U1-5562-2	Plug Button, 1.25 Inch Diameter Hole	1
3	68-12940-05	Cover, Top, Evaporator Access Panel, White	1
4	42-00296-01	Gasket, Evaporator Access Panel	1
5	42-00327-00	Gasket, 0.26 X 0.50 Half-Round	1
6	34-06185-01	Screw, Pan Head, #8-32 X 0.50 with Nylock	AR
7	66U1-5362-2	Nut, Wing, 5/16-18, SST	AR
8	66U1-5321-13	Washer, Plain 5/16 W Type A, SST	AR
9	34-06053-19	Washer, Mylar 1.00 OD X 0.312 ID	AR
10	42-00407-00	Gasket, 0.50 Fresh Air Disc	1
11	68-12933-07	Disc, 12.35 Inch Diameter, White	1
12	58-04376-05	Panel	1
13	34-00928-20	Rivet, Blind	AR
14	62-10930-00	Label VPS	1
15	34-66622-05	Nut, Self Lock, 69Nt	AR
16	68-14903-00	Plate	1
17	68-14815-00	Bracket, Sensor	1
18	76-66615-00	Sensor Kit Upper VPS Includes:	1
	79-66647-00	Sensor	1
	34-00928-02	Rivet, Blind	AR
19	34-06053-13	Washer, Mylar, 1/4 ID X 0.80 OD	AR
20	34-06212-12	Washer, Flat, 1/4, SST	AR
21	66CH1-1172-2	Trim, Flexible 2.00 Inches Long	2
22	58-00969-00	Wire Tie 2.80 Inch Diameter, Double Loop	AR
23	22-01613-10	Plug, 4-Pin	1
24	22-01613-13	Contact, Socket #16	3
25	22-01613-11	Lock, 4-Pin – Secondary	1
26	62-10356-00	Label "No Medfly" (location on panel may change)	1

77-66668-37

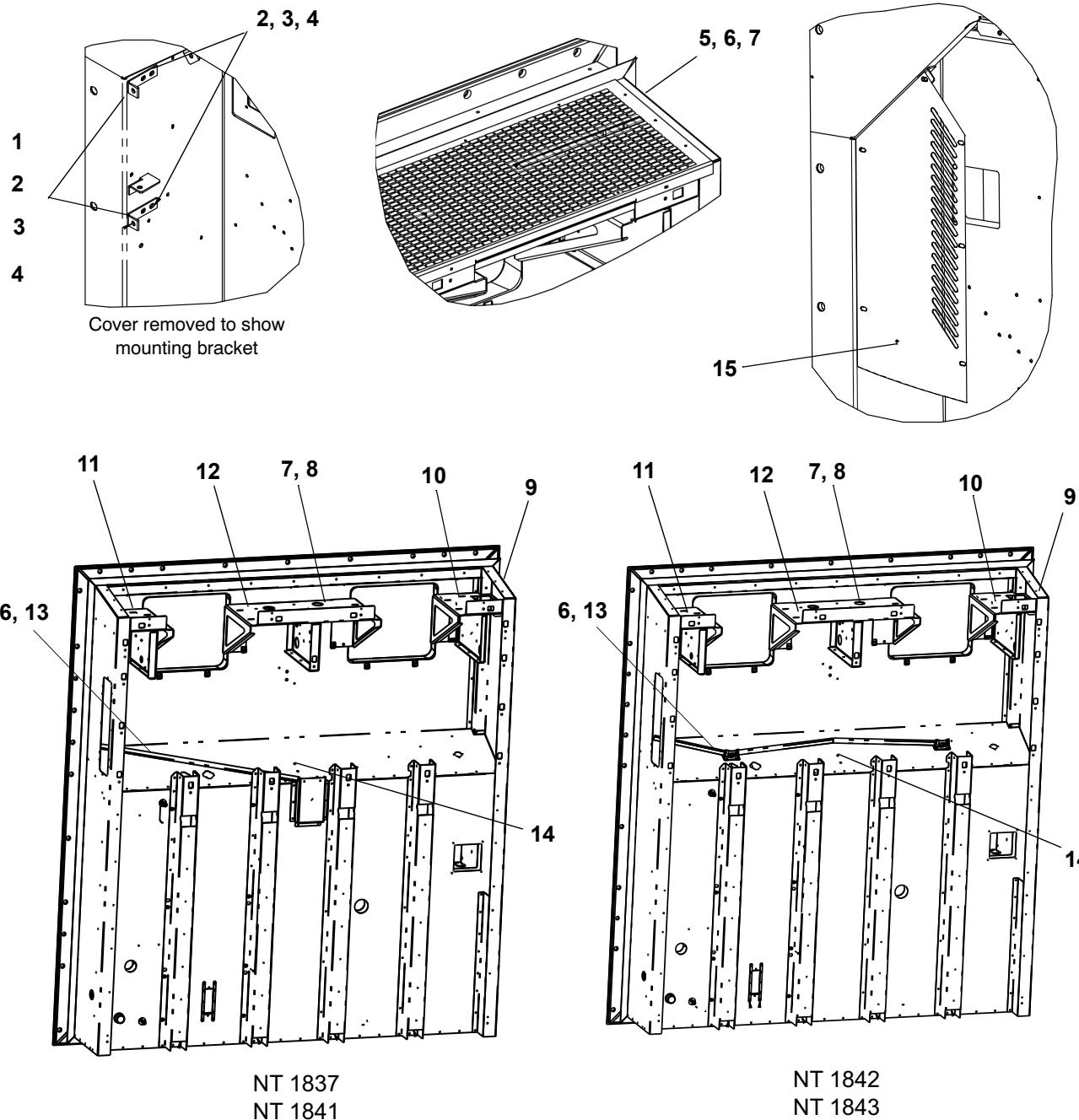
4 AIR EXCHANGE KIT, UPPER - BLANK PANEL



Item	Part Number	Description	Qty
1	79-01697-06SV	Panel Assembly, Access, Evaporator, White - Includes:	1
	58-04378-01	Panel, Access	1
	42-00327-00	Gasket, 0.26 X 0.50 Half-Round	1
	42-00296-01	Gasket, Evaporator Access Panel	1
	68-11989-00	Cover, Top, Evaporator Access Panel, White	AR
	66U1-5562-2	Plug Button	1
2	34-06154-00	Screw, Hex Head, 1/4-20 X 1.00 Inch Long - TIR	AR
3	34-06053-13	Washer, Mylar	AR
4	34-06212-12	Washer, Plain, 1/4	AR
5	34-00655-08	Screw, Hex Head, 1/4-20 X 1.00 Inch Long	AR

77-01157-47

5 AIR EXCHANGE KIT, LOWER (SHEET 1 OF 2)

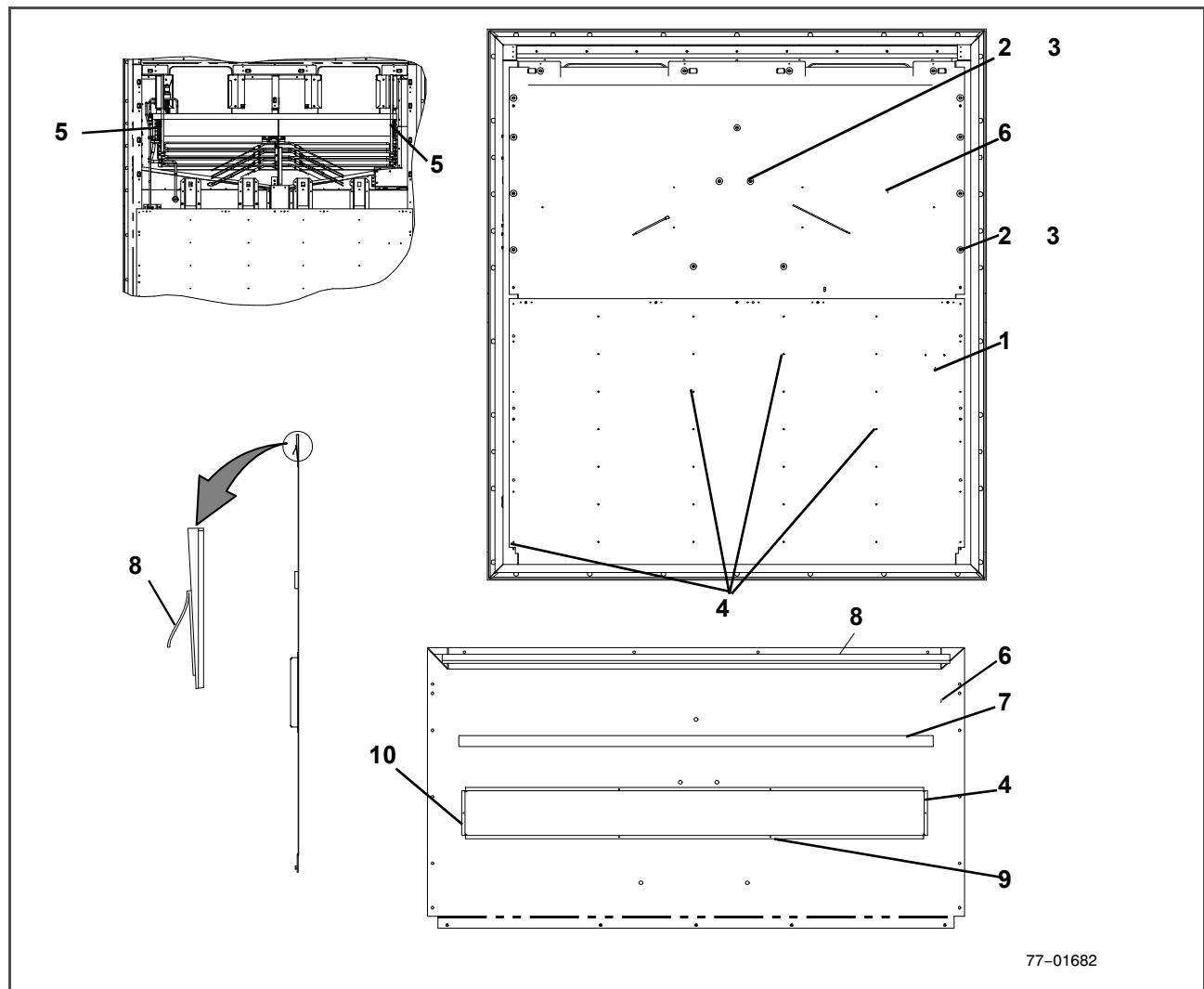


77-01675

5 AIR EXCHANGE KIT, LOWER (SHEET 2 OF 2)

Item	Part Number	Description	Qty
1	68-17118-00	Bracket	2
2	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
3	66U1-5321-3	Washer, Plain 1/4	AR
4	34-06053-00	Washer	AR
5	68-17637-00	Grille	1
6	34-00928-07	Rivet, Blind	AR
7	34-00928-09	Rivet, Blind	AR
8	68-12815-00	Bracket	1
9	68-16063-00	Channel	1
10	68-13984-00	Fan Deck Assembly	1
11	68-13983-04	Fan Deck Assembly	1
12	68-17419-01	Fan Deck Assembly	1
13	68-17073-00	Gutter	1
14	68-17071-00	Panel	1
15	68-16210-00	Panel	1
			77-01675-01

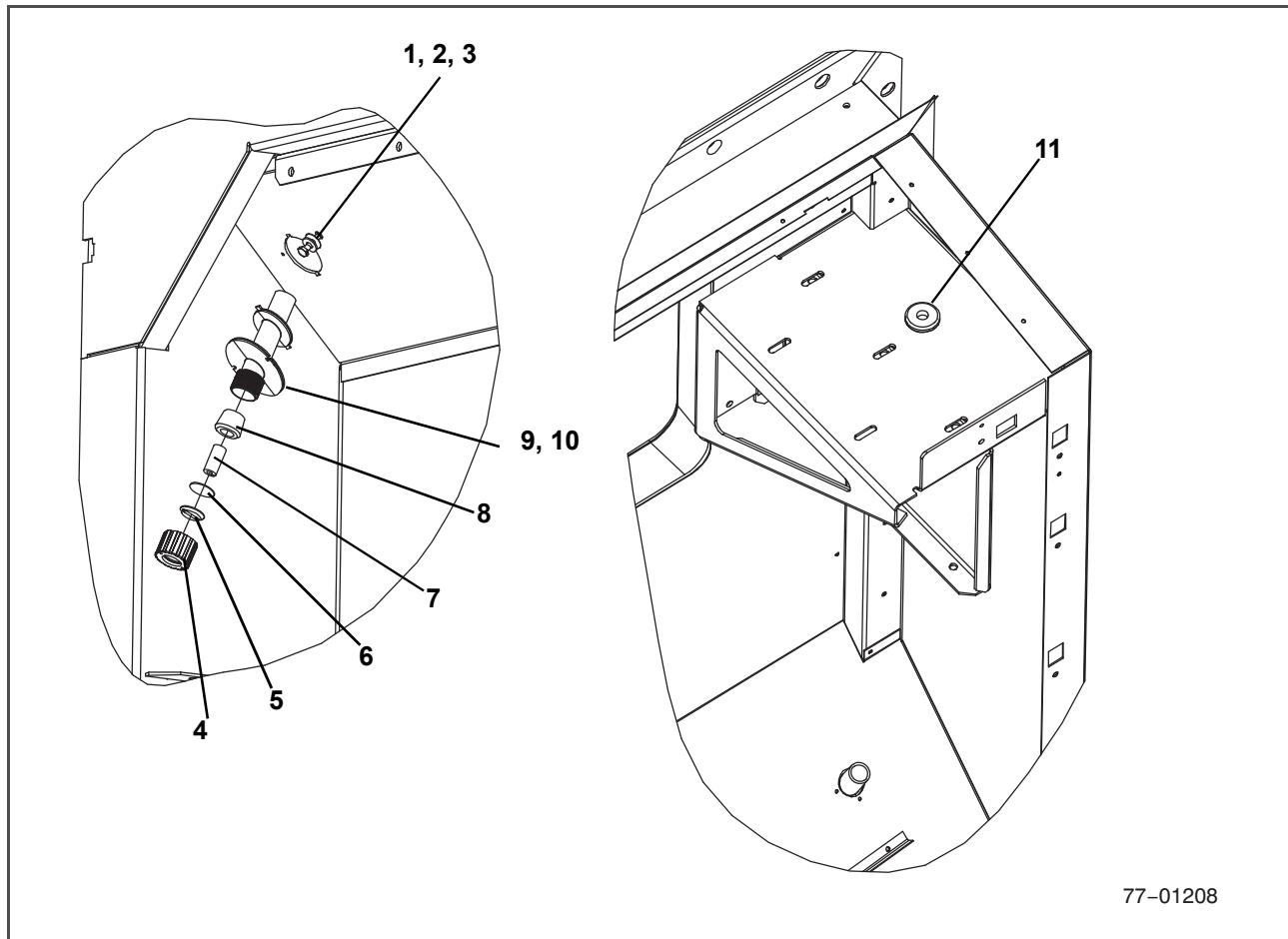
6 BACK PANEL ASSEMBLY



Item	Part Number	Description	Qty
1	68-17642-00	Panel, Back	1
2	69NT35-2692	Washer, Fender	22
3	66U1-2403	Screw, Machine #10-24 X 0.500	AR
4	34-00928-20	Rivet, Blind	AR
5	66U1-2593-4	Gasket	2
6	68-17163-00	Panel Assembly, Back	1
7	42-00174-34	Gasket	1
8	42-00334-00	Gasket	1
9	42-00174-110	Gasket	1
10	42-00174-111	Gasket	1

77-01682-00

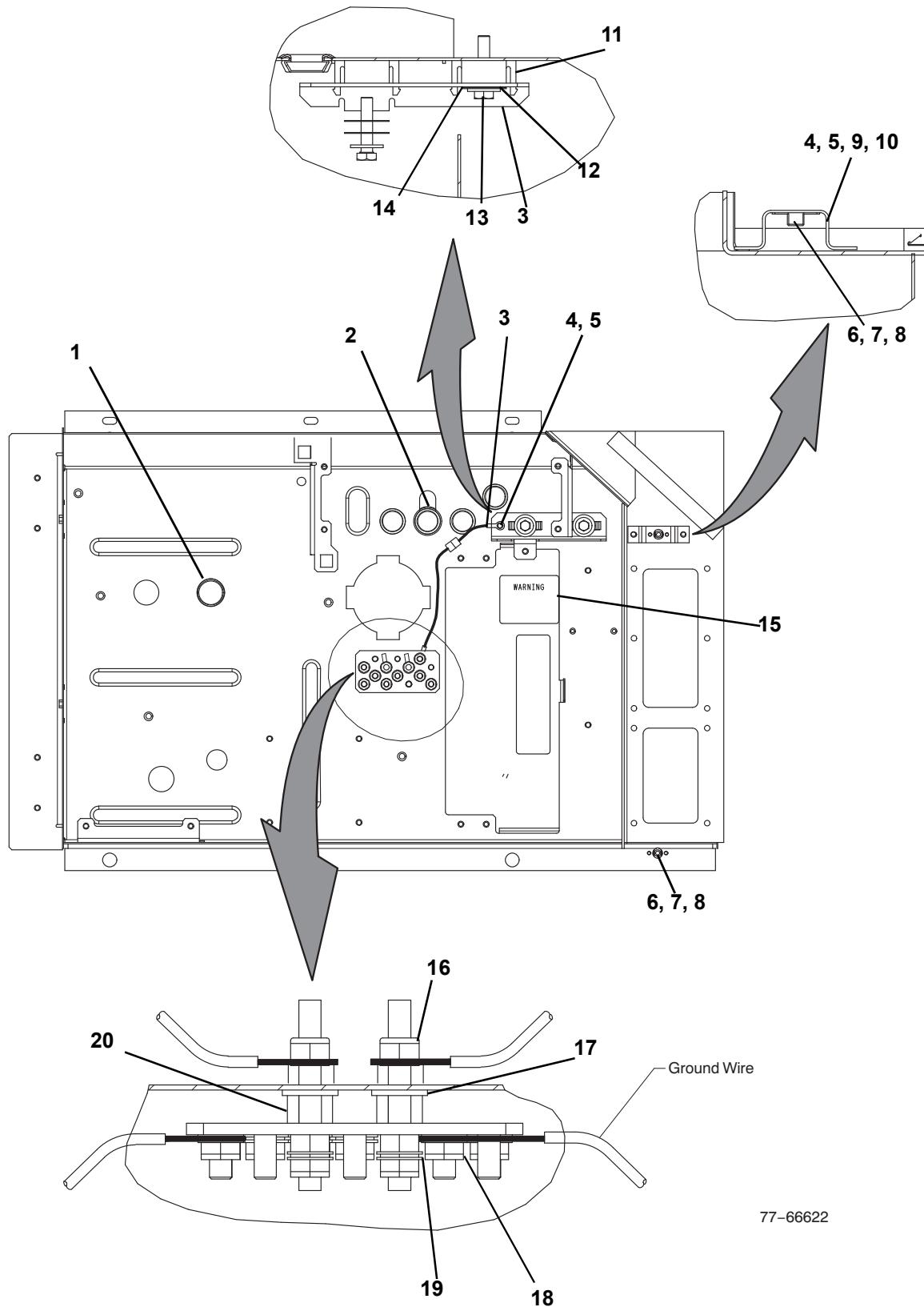
7 BULKHEAD ASSEMBLY



Item	Part Number	Description	Qty
1	34-06154-03	Screw, Cap Hex Head	AR
2	34-06053-00	Washer	AR
3	66U1-5321-7	Washer, Plain	AR
4	22-01733-01	Nut	AR
5	22-01602-03	Ring	1
6	69NT-35-8258	Disc	1
7	58-04302-01	Grommet	AR
8	22-01602-02	Bushing	1
9	58-04290-01	Fitting	1
10	34-00928-20	Rivet, Blind	AR
11	66U1-5562-12	Plug, Button	5

77-01208-05

8 BOX PREP KIT (SHEET 1 OF 2)



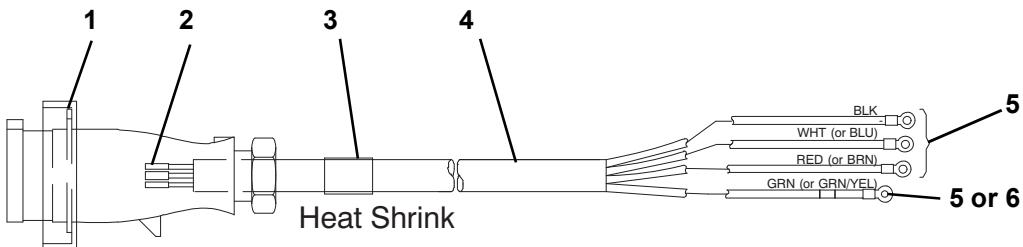
77-66622

8 BOX PREP KIT (SHEET 2 OF 2)

Item	Part Number	Description	Qty
1	66U1-5562-7	Plug, Button 1.125 Diameter Hole	1
2	58-00701-03	Plug, Button .906 Diameter Hole	3
3	68-15270-00	Bracket .090 Thick Aluminum	1
4	66U1-5371-7	Screw, Mach Hex Head #10-24 X .500	AR
5	66U1-5321-8	Washer, Plain #10 Type A	AR
6	34-01142-01	Receptacle #12 Saddle Type	2
7	34-00928-01	Rivet, Blind .125 Diameter .063 – .125	AR
8	58-04026-32	Protector 0.75 X 1.06 Mylar	2
9	69NT35-6272-3	Bracket .063 Thick Aluminum	1
10	34-06053-05	Washer .205 ID X .600 OD new #	AR
11	58-00967-00	Spacer Locking (Sub Panel)	2
12	66U1-5321-7	Washer, Plain 1/4 W Type A	AR
13	34-00655-10	Screw, Cap Hex Head 1/4-20 X 1.25	AR
14	34-06053-03	Washer .250 ID X 1.000 OD	AR
15	62-10911-00	Label, Warning MI3 Only!	1
16	34-00667-11	Nut, Self Lock	AR
17	66U1-5321-3	Washer, Plain	AR
18	AU-27JR-171	Washer, Lock 1/4 Ext Tooth	AR
19	AT-39JA-171	Nut, Hex	AR
20	66U1-9592-13	Standoff 1/4-20 X 0.375 Long	2

77-66622-16

9 CABLE ASSEMBLY



Connector End

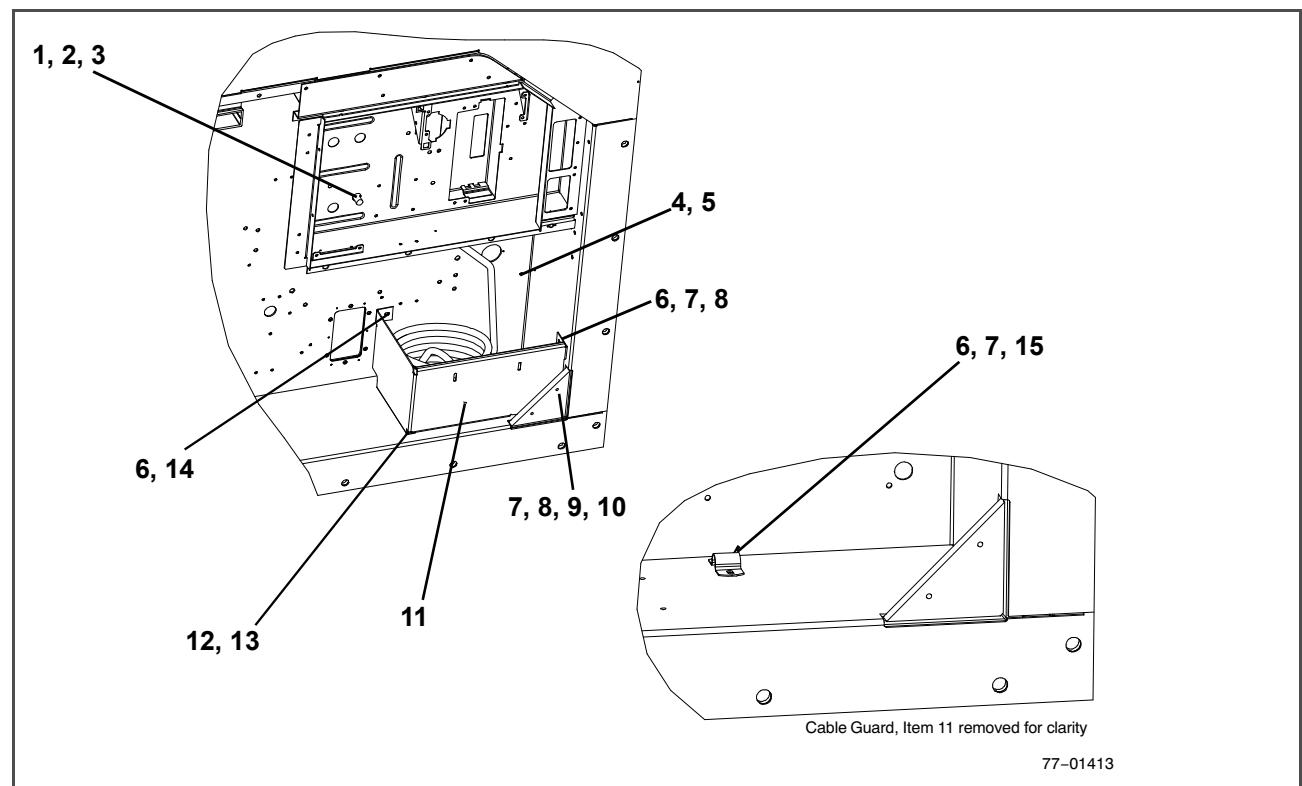
Terminal End

22-01879

Item	Part Number	Description	Qty
1	22-02378-00	Plug 4 Pole, 440V	1
2	22-02324-01	Bushing	4
3	66U1-2583	Tube, Heat Shrink	1
4	22-66651-10	Cable, Transicord Flexline	1
5	22-00119-03	Terminal	3
6	22-00119-04	Terminal, Ring	1

22-01879-31

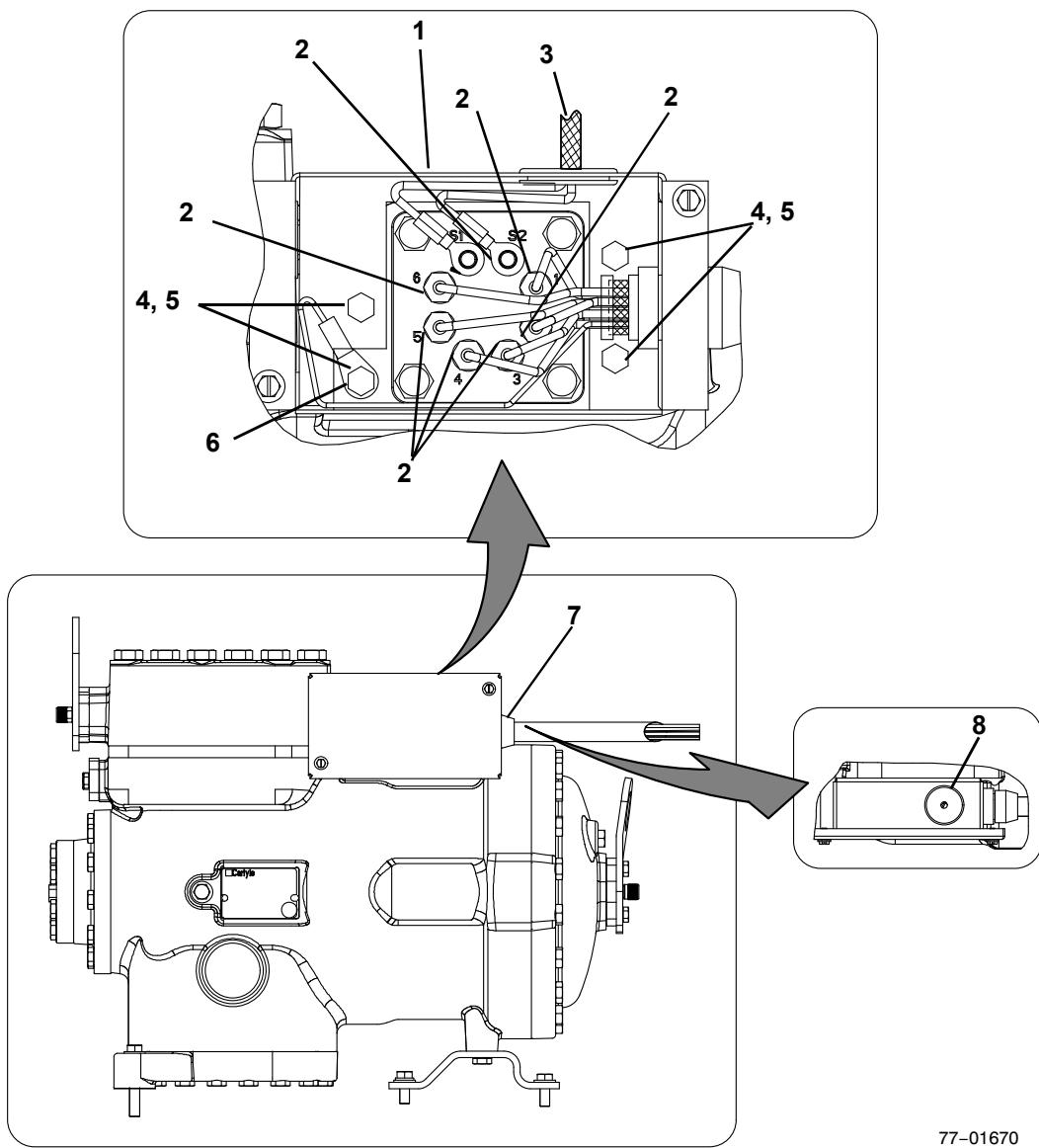
10 CABLE KIT



Item	Part Number	Description	Qty
1	66U1-7352-3	Connector Straight, Watertight	1
2	34-06136-01	Nut, Lock 3/4" Npt	AR
3	66U1-1251-2	O-Ring 3/4 Hub Sealing	AR
4	58-04316-00	Base, Mounting	2
5	66U1-3882	Wire Tie	AR
6	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
7	34-06053-00	Washer	3
8	66U1-5361-11	Screw, Cap Hex Head 1/4-20 X 1.50	AR
9	34-00667-11	Nut, Self Lock	AR
10	68-16214-00	Guard	1
11	66U1-5371-6	Screw, Mach Hex Head 10-24 X 0.750	AR
12	66U1-5321-8	Washer, Plain 10 Type A	AR
13	34-06053-05	Washer	AR
14	68-14456-01	Cable Clamp Cable Cutter	1
15	58-04026-07	Protector	1

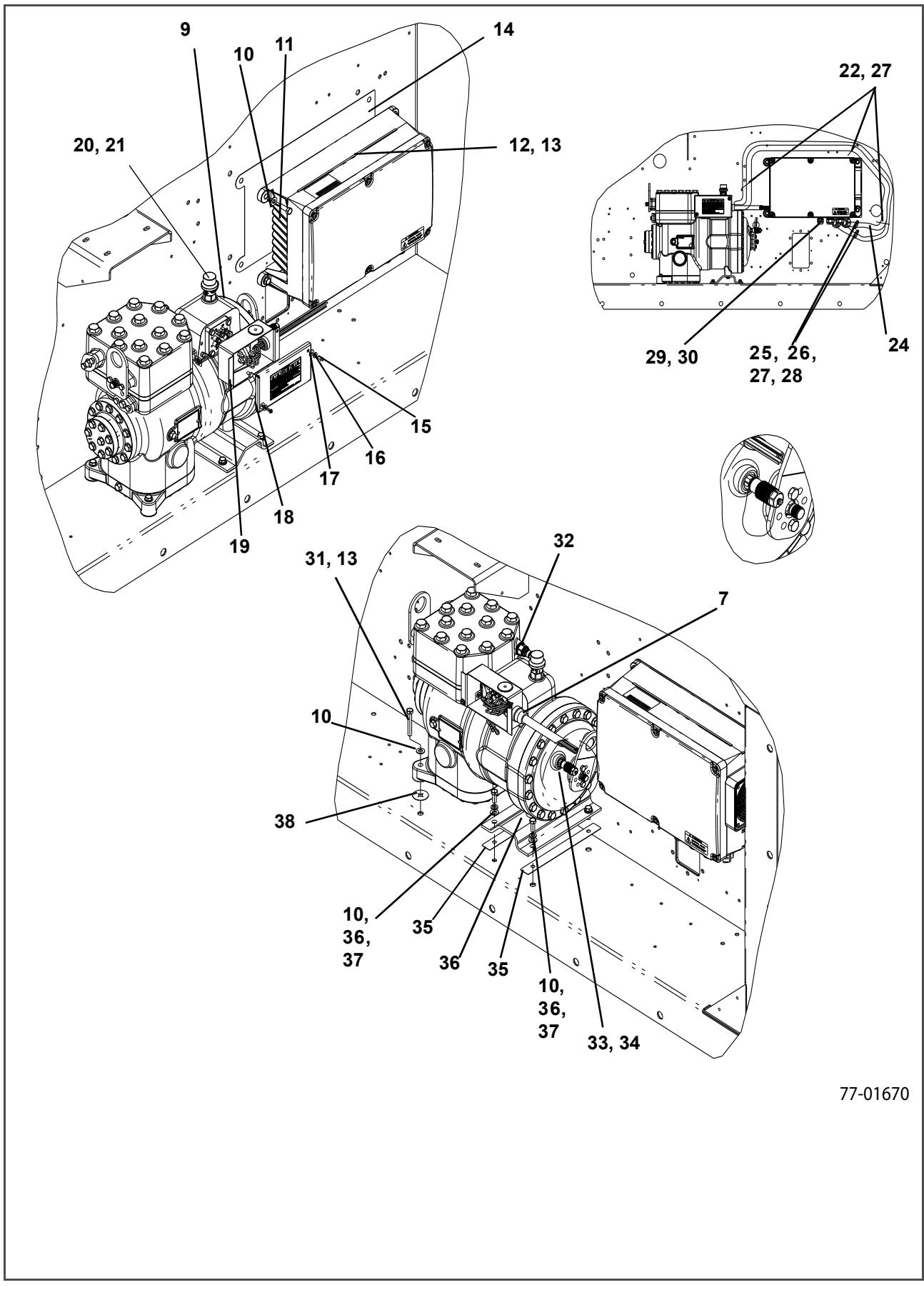
77-01413-01

11 COMPRESSOR KIT (SHEET 1 OF 4)



Item	Part Number	Description	Qty
1	76-00917-00	Terminal Wire Kit	1
2	66U1-3803-17	Tube, Heat Shrink	AR
3	58-04321-34	Tube, Slit	2
4	34-01146-06	Washer, Lock	AR
5	34-01152-10	Screw, Cap Hex Head	AR
6	AU-27JR-171	Washer, Lock 1/4 Ext Tooth	AR
7	22-02302-03	Connector 3/4 Straight	1
8	58-00065-78	Grommet	AR

11 COMPRESSOR KIT (SHEET 2 OF 4)



77-01670

11 COMPRESSOR KIT (SHEET 3 OF 4)

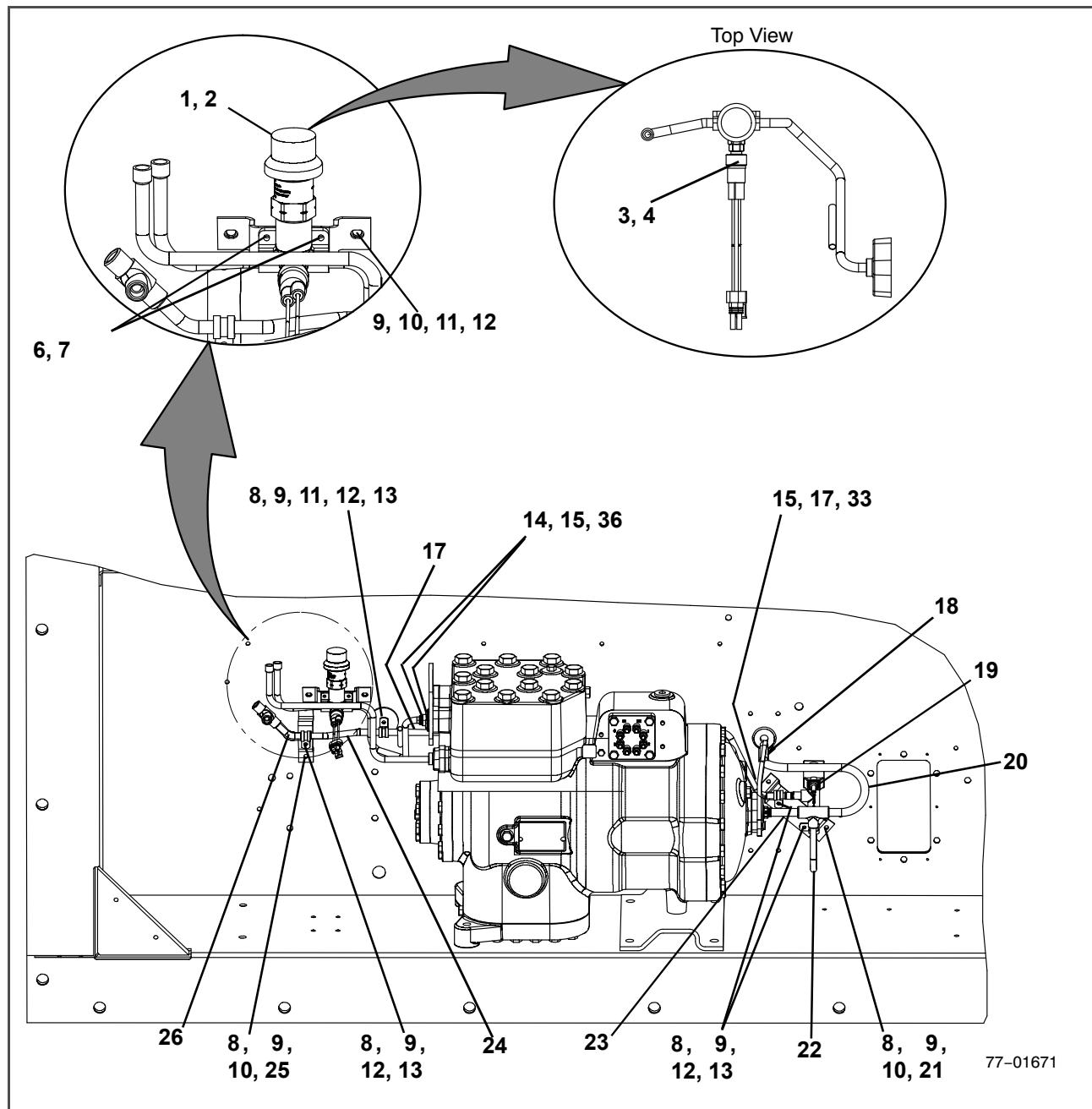
9	79-04023-21	Compressor	1
10	66U1-5321-5	Washer, Plain 3/8	AR
11	66U1-5361-8	Screw, Cap Hex Head 3/8-16 X 1.50	AR
12	10-00482-00	Variable Frequency Drive	1
13	10-00482-20	SV VFD Fan Replacement Kit	1
14	58-04026-103	Protector	1
15	66U1-5371-7	Screw, Machine Hex Head #10-24	AR
16	66U1-5321-8	Washer, Plain #10 Type A	AR
17	34-06053-05	Washer	AR
18	68-17026-00	Cover	1
19	86-04959-00	Box Welded Assembly	1
20	76-00892-00	Relief Valve Service Kit Includes:	1
NSS	14-00407-02	Valve, Relief	1
NSS	42-00805-05	O-Ring	1
NSS	46-00058-00	Lubricant	1
21	76-00892-15	O-Ring Service Kit Includes:	1
NSS	42-00805-05	O-Ring	
NSS	46-00058-00	Lubricant	1
22	58-04316-00	Base, Mounting	4
23	66U1-3882	Wire Tie	AR
24	22-04280-00	Wire Assembly	1
25	34-00373-59	Clamp, Tube	2
26	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
27	66U1-5321-7	Washer, Plain 1/4	AR
28	34-06053-03	Washer	AR
29	22-02319-10	Connector Straight, 3/8 Npt	1
30	22-02319-11	Nut, Lock 3/8 Npt	AR
31	66U1-5361-19	Screw, Cap Hex Head 3/8-16 X 2.50	AR
32	76-00892-06	Transducer Service Kit Includes:	1
NSS	12-00688-00	Transducer	1
NSS	42-00805-02	O-Ring	1
NSS	46-00058-00	Lubricant	1
NSS	42-00805-02	O-Ring	1
NSS	46-00058-00	Lubricant	1

11 COMPRESSOR KIT (SHEET 4 OF 4)

33	76-00892-05	Valve Service Kit Includes:	1
NSS	40-00709-01	Valve, Service	1
NSS	42-00805-02	O-Ring	1
NSS	46-00058-00	Lubricant	1
34	76-00892-12	O-Ring Service Kit Includes:	1
NSS	42-00805-02	O-Ring	1
NSS	46-00058-00	Lubricant	1
35	58-04026-95	Protector	2
36	66U1-5361-7	Screw, Cap Hex Head 3/8-16 X 1.00	AR
37	AU-11JR-241	Washer, Lock 3/8 Spring	AR
38	58-04026-94	Protector	2

77-01670-00

12 COMPRESSOR TUBE KIT (SHEET 1 OF 3)

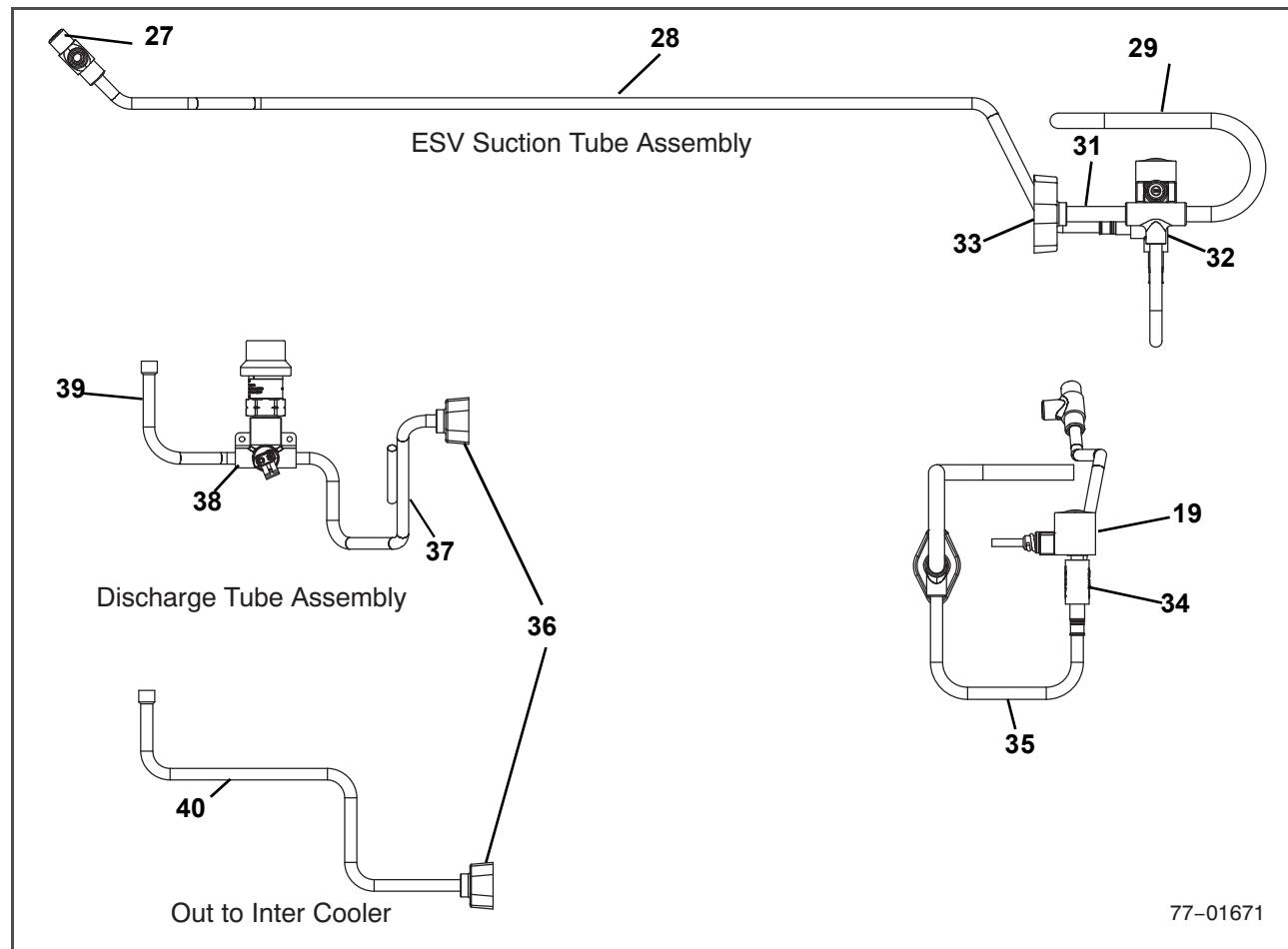


Item	Part Number	Description	Qty
1	76-00892-02	Relief Valve Service Kit Includes:	1
NSS	14-00407-04	Valve, Relief	1
NSS	42-00805-04	O-Ring	1
NSS	46-00058-00	Lubricant	1
2	76-00892-14	O-Ring Service Kit Includes:	1
NSS	42-00805-04	O-Ring	1
NSS	46-00058-00	Lubricant	1

12 COMPRESSOR TUBE KIT (SHEET 2 OF 3)

3	76-00892-08	Pressure Switch Service Kit Includes:	1
NSS	12-00689-00	Switch, Pressure	1
NSS	42-00805-01	O-Ring	1
NSS	46-00058-00	Lubricant	1
4	76-00892-11	O-Ring Service Kit Includes	1
NSS	42-00805-01	O-Ring	1
NSS	46-00058-00	Lubricant	1
5	66U1-5331-4	Washer, Lock #8 Spring	AR
6	66U1-5321-2	Washer, Plain #8 Type A	AR
7	68-16223-00	Bracket	1
8	66U1-5371-6	Screw, Machine Hex Head #10-24 X 0.750	AR
9	66U1-5321-8	Washer, Plain #10 Type A	AR
10	34-06053-05	Washer	AR
11	34-06295-00	Washer, Fender	AR
12	44-00370-02	Clamp, Cushioned	4
13	34-06053-00	Washer	AR
14	42-00726-00	Gasket	2
15	66U1-5361	Screw, Cap Hex Head 5/16-18 X 1.25	AR
16	42-66644-00	Gasket Suction	1
17	42-00425-133	Insulation, Tube	1
18	42-00425-135	Insulation, Tube	1
19	14-00394-20	Coil, ESV	1
20	42-00425-132	Insulation, Tube	1
21	68-16074-00	Bracket	1
22	42-00425-137	Insulation, Tube	1
23	42-00425-134	Insulation, Tube	1
24	42-00425-126	Insulation, Tube Pre-Taped	1
25	68-16607-01	Bracket	1
26	42-00425-127	Insulation, Tube	1

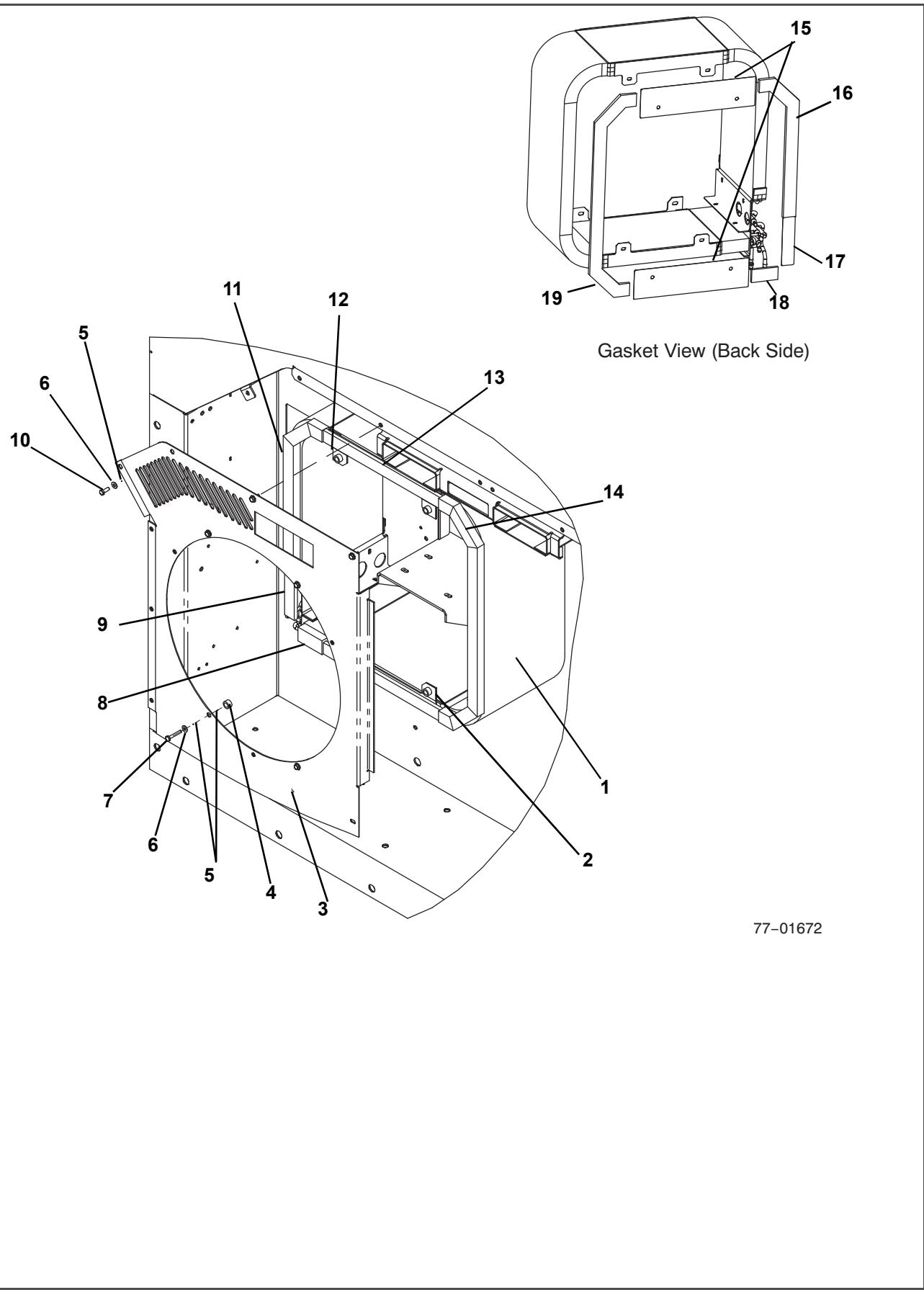
12 COMPRESSOR TUBE KIT (SHEET 3 OF 3)



27	40-00703-01	Tee	1
28	56-08839-00	Tube	1
29	56-08840-00	Tube	1
30	42-00667-12	Insulation, Tube Pre-Taped	1
31	99TS0865CK002500	Tube, Straight	1
32	40-00703-00	Tee	1
33	40-00707-00	Flange, Low Side	1
34	14-00394-01	Unloader Solenoid Valve (USV)	1
35	56-08835-00	Tube	1
36	40-00707-01	Flange, High Side	2
37	56-09119-00	Tube	1
38	40-00718-00	Tee	1
39	56-08881-00	Tube	1
40	56-09166-00	Tube	1

77-01671-00

13 CONDENSER (GAS COOLER) KIT, COIL AND COVERS (SHEET 1 OF 2)

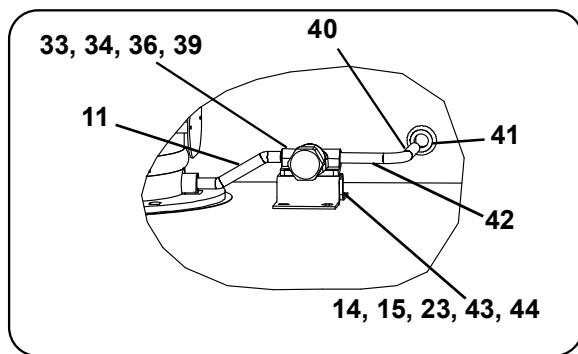
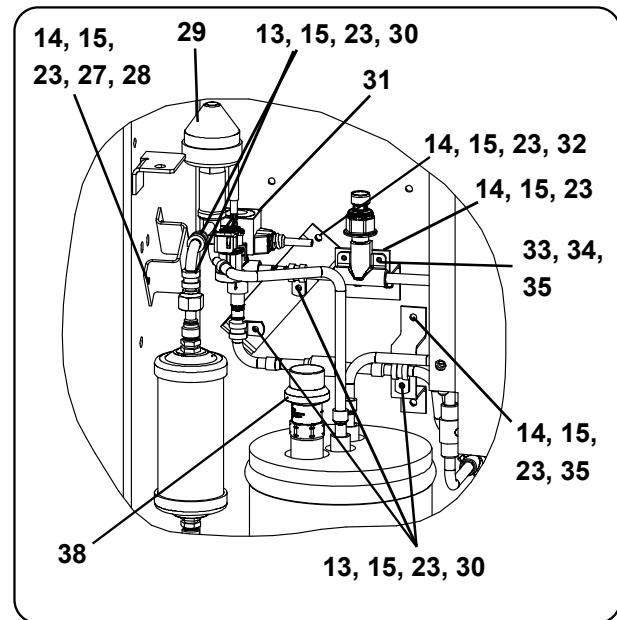
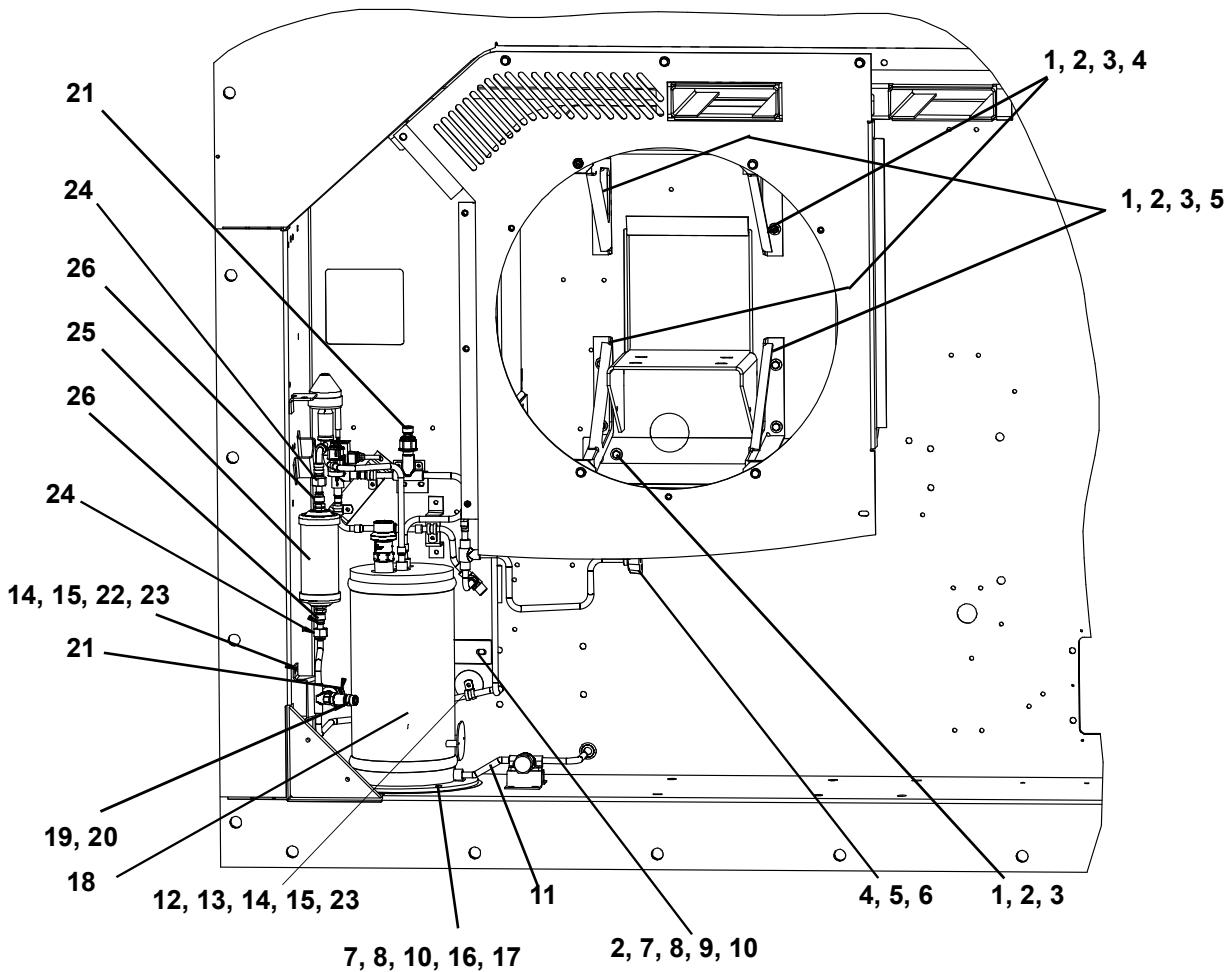


77-01672

13 CONDENSER (GAS COOLER) KIT, COIL AND COVERS (SHEET 2 OF 2)

Item	Part Number	Description	Qty
1	81-04129-00	Gas Cooler / Intercooler	1
2	58-04026-90	Protector	2
3	86-04816-00	Grille Assembly Condenser Fan Includes:	1
	68-17087-00	Cover	1
	68-16234-00	Grille	1
4	48-00456-00	Spacer	4
5	34-06053-00	Washer	AR
6	66U1-5321-3	Washer	AR
7	66U1-5361-47	Bolt, Machine Hex Head	AR
8	42-00721-22	Gasket	1
9	42-00721-15	Gasket	1
10	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
11	42-00721-18	Gasket	1
12	58-04026-91	Protector	2
13	42-00721-21	Gasket	2
14	42-00721-20	Gasket	1
15	58-04026-92	Protector	2
16	42-00721-19	Gasket	1
17	58-04026-84	Protector Coil Cover	1
18	42-00721-12	Gasket	1
19	42-00721-11	Gasket	1
			77-01672-00

14 CONDENSER (GAS COOLER) KIT, FLASH TANK SECTION (SHEET 1 OF 3)



77-01672

14 CONDENSER (GAS COOLER) KIT, FLASH TANK SECTION (SHEET 2 OF 3)

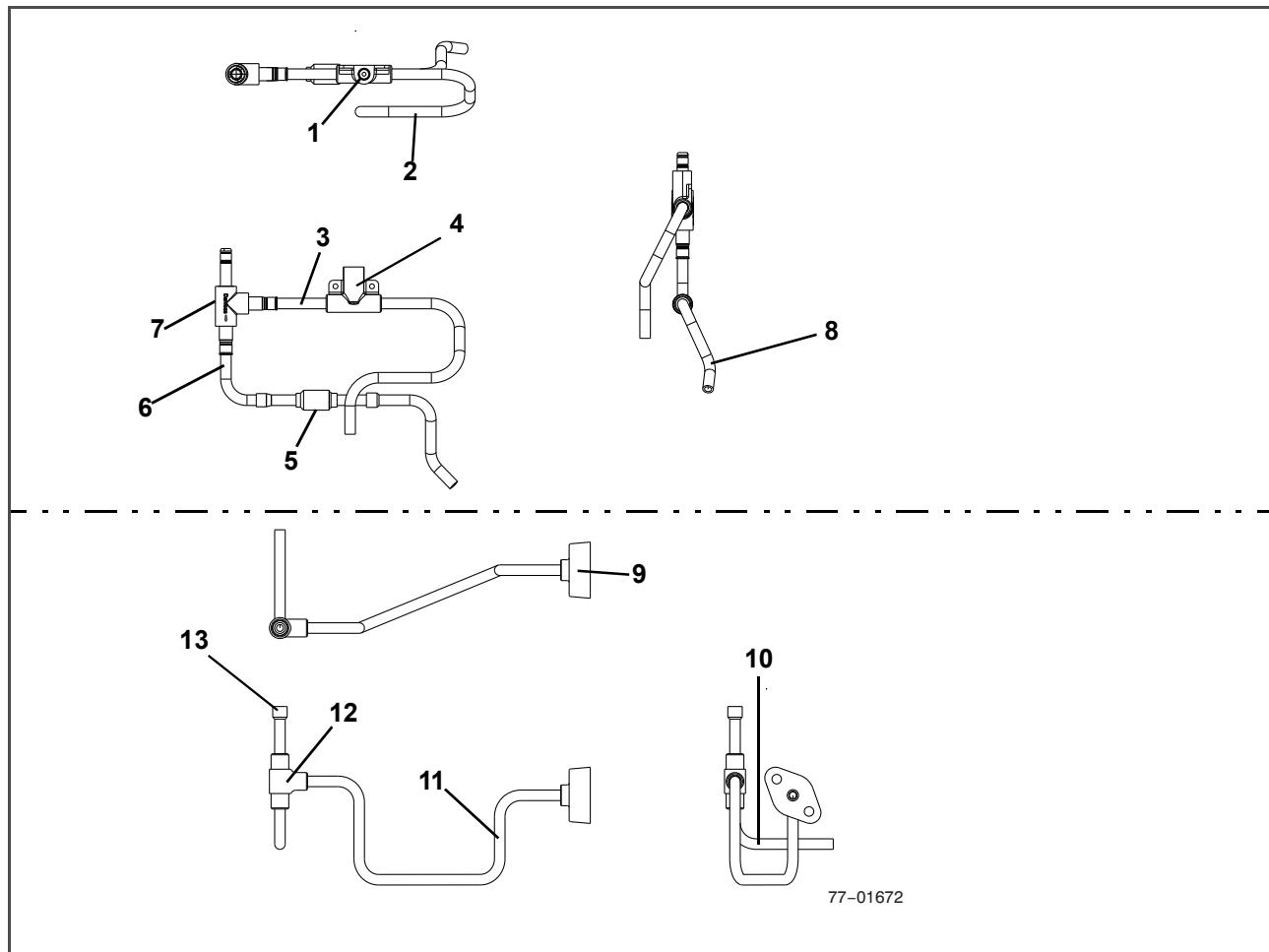
Item	Part Number	Description	Qty
1	34-06053-00	Washer	AR
2	86-04981-00	Bracket, Weld	2
3	86-04981-01	Bracket, Weld	2
4	42-00726-00	Gasket	1
5	66U1-5361	Screw, Cap Hex Head 5/16-18 X 1.25	AR
6	40-00707-01	Flange High Side	1
7	66U1-5361-39	Screw, Cap Hex Head 5/16-18 X 1.00	AR
8	66U1-5321-4	Washer, Plain 5/16 N Type A	AR
9	58-04026-88	Protector	1
10	34-06053-15	Washer	AR
11	42-00425-124	Insulation, Tube	1
12	34-06295-00	Washer, Fender	AR
13	44-00370-02	Clamp, Cushioned	6
14	66U1-5371-7	Screw, Mach Hex Head 10-24 X 0.500	AR
15	34-06053-05	Washer	AR
16	34-06053-02	Washer	AR
17	58-04026-89	Protector Flash Tank Bottom	1
18	65-00205-00	Flash Tank	1
19	76-00892-04	Valve Service Kit Includes:	1
NSS	40-00709-00	Valve, Service	1
NSS	42-00805-00	O-Ring	1
NSS	46-00058-00	Lubricant	1
20	76-00892-10	O-Ring Service Kit Includes:	1
NSS	42-00805-00	O-Ring	1
NSS	46-00058-00	Lubricant	1
21	12-00688-01	Transducer High Pressure	2
22	68-16335-00	Bracket	1
23	66U1-5321-8	Washer, Plain 10 Type A	AR
24	42-00032-13	Insulation	2
25	14-00406-01	Filter Drier	AR
26	14-00406-20	Filter Drier O-Ring	1
27	68-16409-00	Bracket	1
28	14-00396-10	Coil, HPXV	1
29	66U1-5371-6	Screw, Mach Hex Head 10-24 X 0.750 Sstd	AR

14 CONDENSER (GAS COOLER) KIT, FLASH TANK SECTION (SHEET 3 OF 3)

30	14-00394-20	Coil, ESV	1
31	68-16074-01	Bracket	1
32	66U1-5371	Screw, Mach Hex Head 8-32 X 1/2	AR
33	66U1-5321-2	Washer, Plain	AR
34	66U1-5331-4	Washer, Lock	AR
35	68-16607-00	Bracket	1
36	40-00717-00	Tee	1
37	76-00892-13	O-Ring Service Kit Includes:	1
NSS	42-00805-03	O-Ring	1
NSS	46-00058-00	Lubricant	1
38	76-00892-01	Relief Valve Service Kit Includes:	1
NSS	14-00407-03	Valve, Relief	1
NSS	42-00805-03	O-Ring	1
NSS	46-00058-00	Lubricant	1
39	42-00425-136	Insulation, Tube	1
40	66U1-1571-32	Grommet	AR
41	56-08973-00	Tube	1
42	68-17082-00	Bracket	1
43	76-00892-09	Valve Service Kit Includes:	1
NSS	40-00719-00	Plug	1
NSS	42-00805-05	O-Ring	1
NSS	46-00058-00	Lubricant	1
44	76-00892-15	O-Ring Service Kit Includes:	1
NSS	42-00805-05	O-Ring	1
NSS	46-00058-00	Lubricant	1

77-01672-00

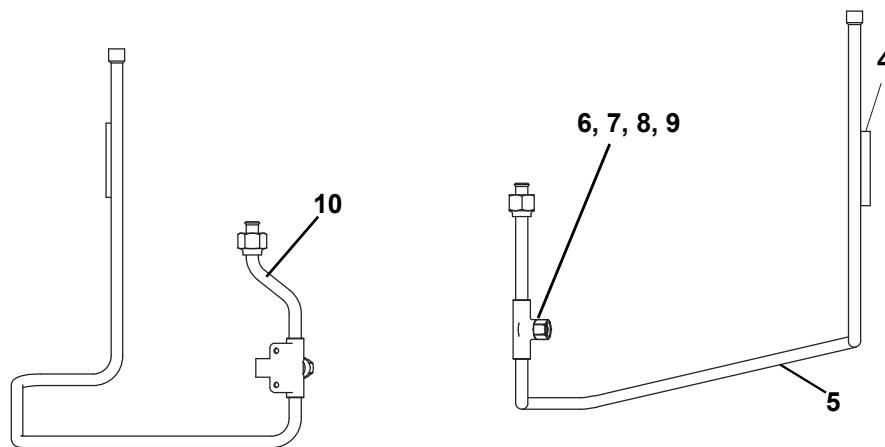
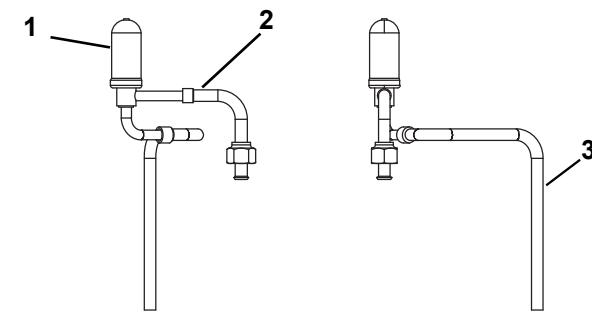
15 CONDENSER (GAS COOLER) KIT, ESV LINE TUBING



Item	Part Number	Description	Qty
1	40-00702-00	Tee	1
2	56-08993-00	Tube	1
3	99TS0665CK002600	Tube, Straight	1
4	68-16222-00	Bracket	1
5	14-00413-00	Check Valve	1
6	56-08792-00	Tube	1
7	14-00394-01	Economizer Solenoid Valve (ESV)	1
8	14-00394-20	Tube	1
9	56-08841-00	Flange	1
10	40-00707-01	Tube	1
11	56-08822-00	Tube	1
12	56-09118-00	Tee	1
13	40-00703-01	Tube	1
14	56-08853-00	Tube	1

77-01672-00

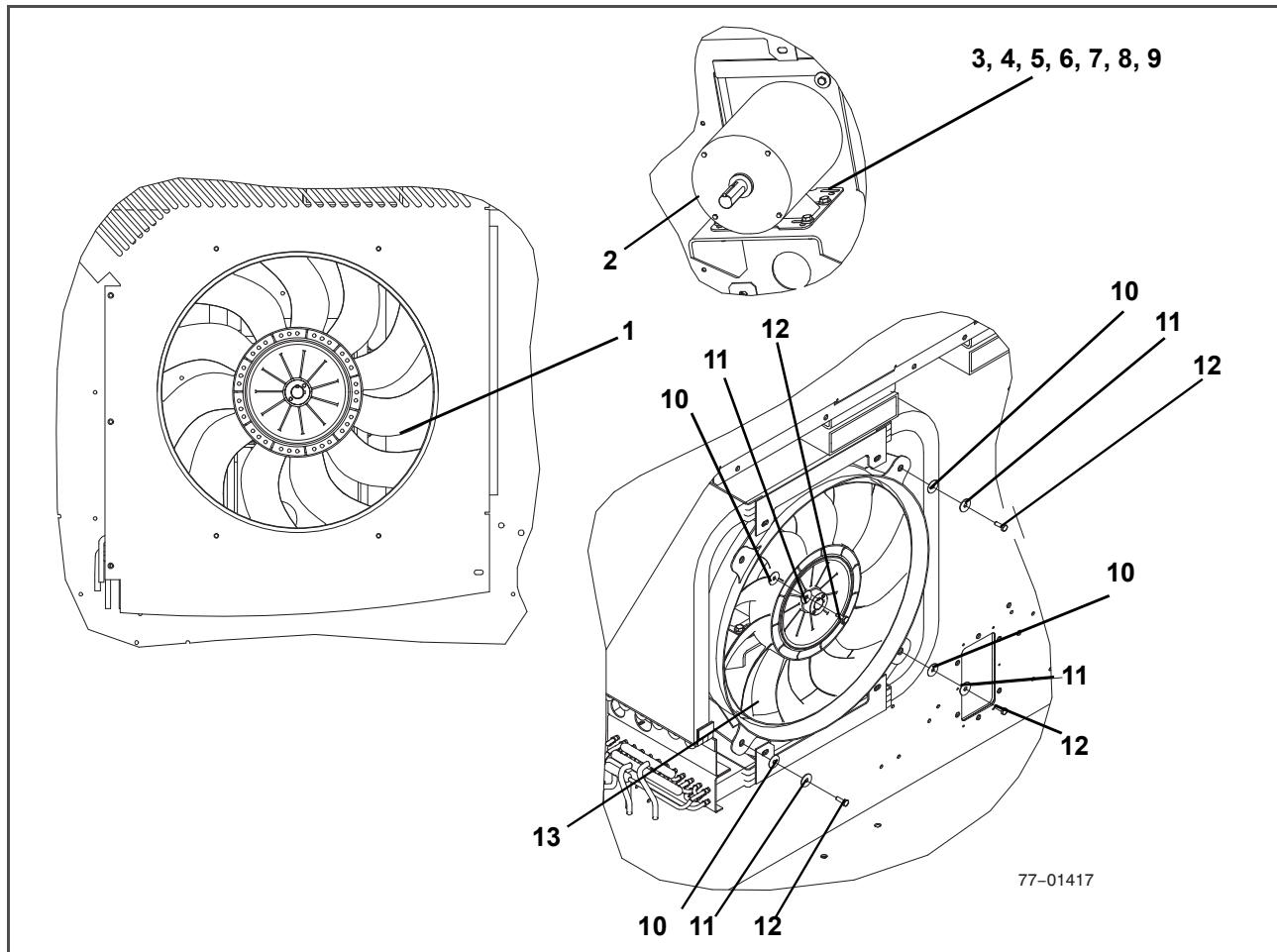
16 CONDENSER (GAS COOLER) KIT, HPXV LINE TUBING



77-01672

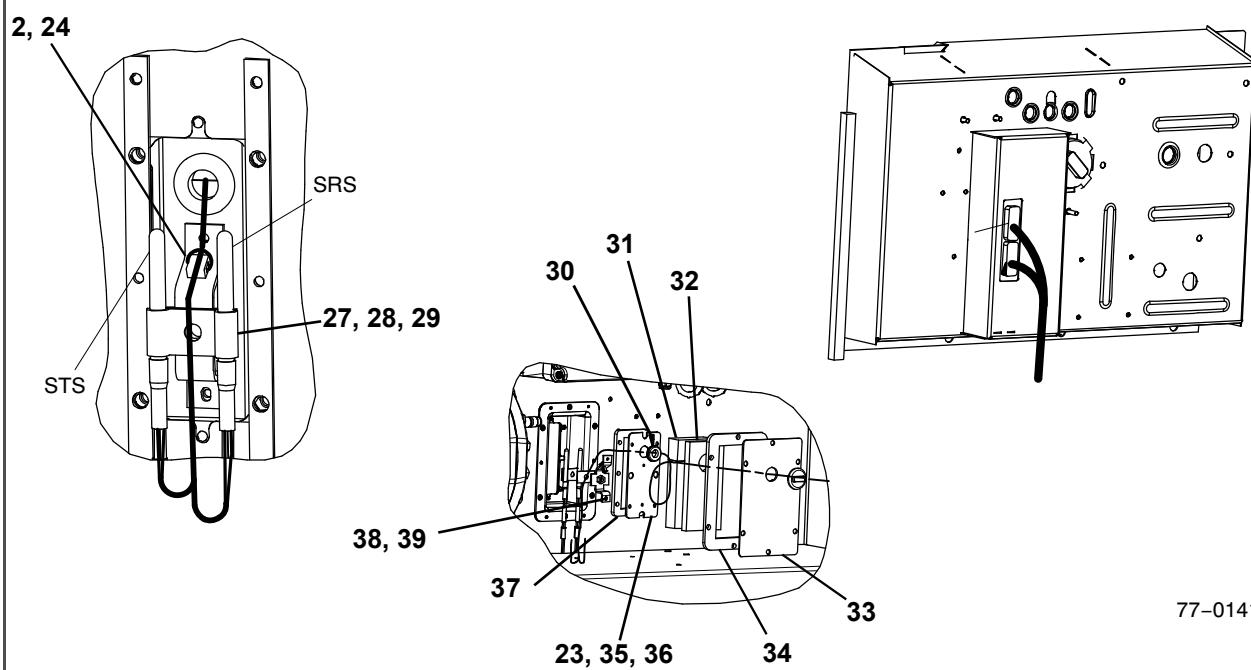
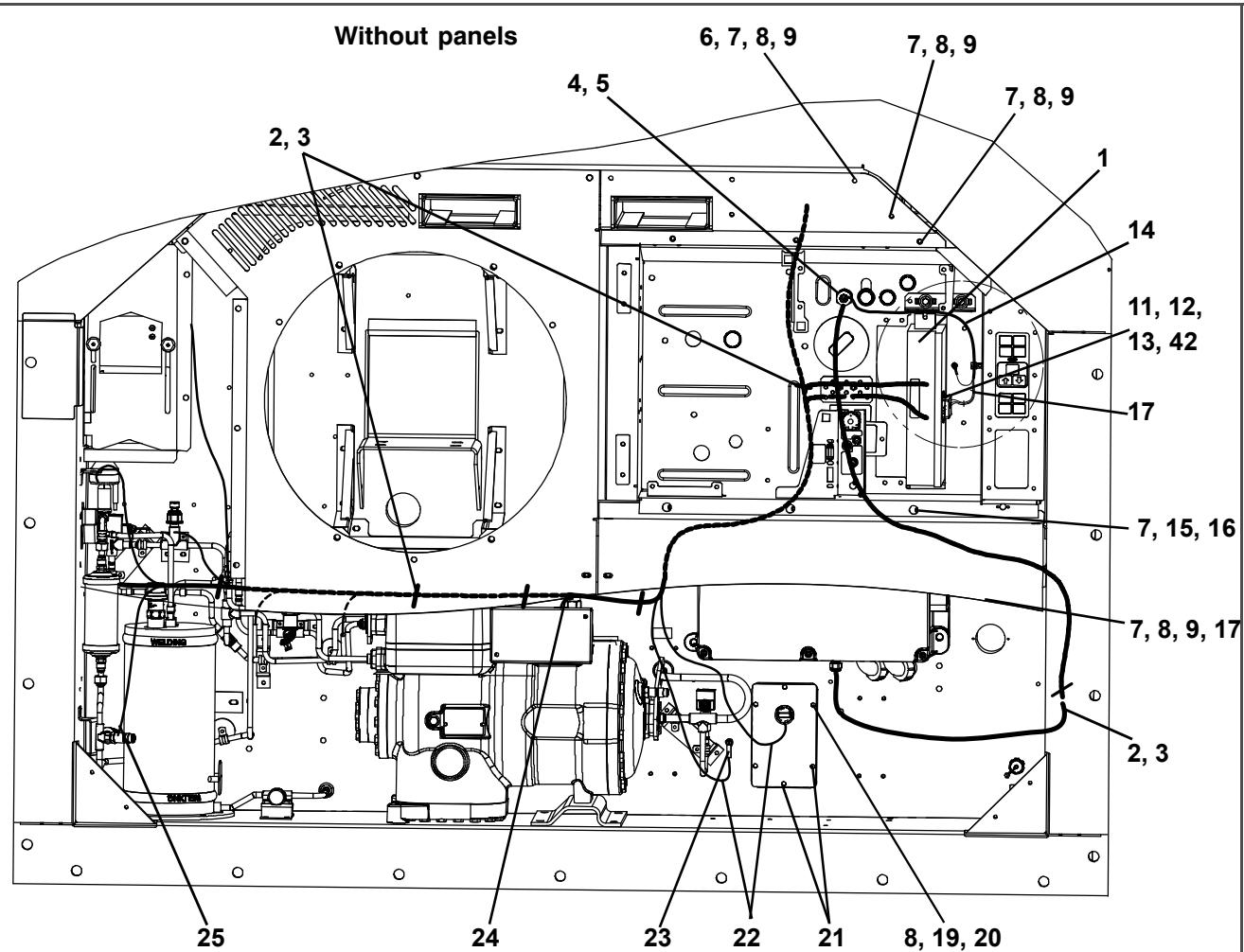
Item	Part Number	Description	Qty
1	14-00396-00	High Pressure Expansion Valve (HPXV)	1
2	56-08837-00	Tube	1
3	56-08992-00	Tube	1
4	56-08645-00	Tube Sensor, CPDS	1
5	56-08851-00	Tube	1
6	40-00701-00	Fitting	1
7	66U1-5371	Screw, Mach Hex Head 8-32 X 1/2	AR
8	66U1-5321-2	Washer, Plain	AR
9	66U1-5331-4	Washer, Lock	AR
10	56-08836-00	Tube	1
			77-01672-00

17 CONDENSER (GAS COOLER) FAN KIT



Item	Part Number	Description	Qty
1	38-00597-00	Fan, Gas Cooler	1
2	54-00640-20	Motor, Gas Cooler	1
3	34-01181-01	Washer, Flat	AR
4	34-00667-12	Nut, Self Lock	AR
5	66U1-5361	Screw, Cap Hex Head 5/16-18 X 1.25	AR
6	34-06053-02	Washer	AR
7	69NT35-3452	Shim	1
8	69NT35-3452-2	Shim	1
9	69NT35-3452-3	Shim	1
10	34-06053-00	Washer	AR
11	69NT35-2692-1	Washer, Fender	AR
12	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
13	86-05006-00	Grill Assembly, Gas Cooler	1

77-01417-00



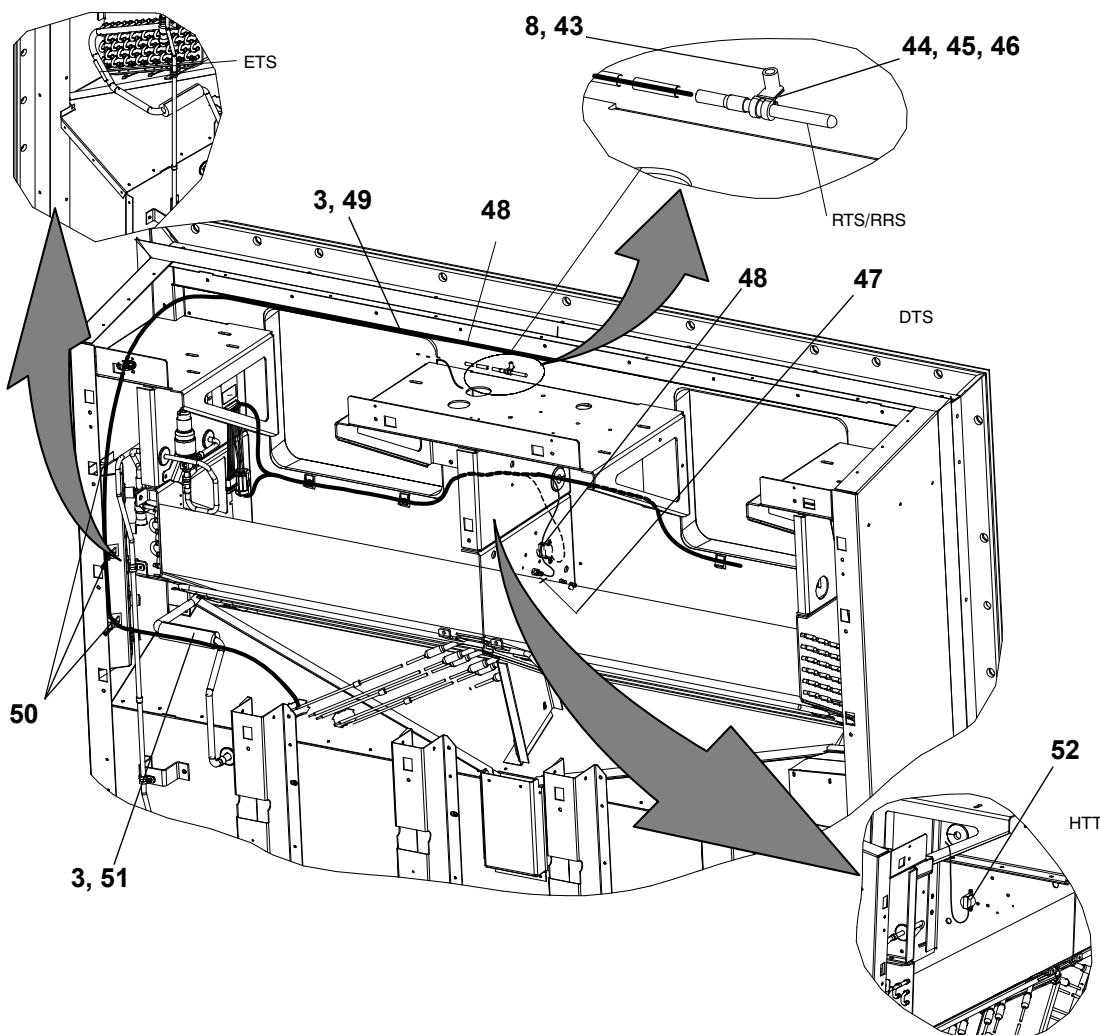
18 CONTROLLER KIT (SHEET 2 OF 5)

Item	Part Number	Description	Qty
1	12-55013	Micro-Link 3 Microprocessor, Controller/DataCORDER	1
2	58-04316-00	Base, Mounting	8
3	66U1-3882	Wire Tie	AR
4	22-02319-12	Connector	1
5	22-02319-13	Nut, Lock 1/2 Npt	AR
6	68-17130-00	Panel	1
7	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X .75	AR
8	66U1-5321-3	Washer, Plain 1/4	AR
9	34-06053-00	Washer	AR
10	AU-27JR-171	Washer, Lock 1/4	AR3
11	22-04214-02	VFD Module	1
12	66U1-5371	Screw, Mach Hex Head 8-32 X 1/2	AR
13	66U1-3803-13	Tube, Heat Shrink	11
14	22-04281-00	VFD Communication Cable Assembly	1
15	34-06053-03	Washer	AR
16	69NT35-2692-1	Washer, Fender 1/4	AR
17	68-16603-00	Cover	1
18	66U1-5321-3	Washer, Plain 1/4	AR
19	34-06053-13	Washer	AR
20	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	AR
21	34-06154-03	Screw, Cap Hex Head 1/4-20 X 1.00	AR
22	58-00849-03	Tube, Slit 5/8 Id X 20	2
23	66U1-5371-6	Screw, Mach Hex Head 10-24 X .750	AR
24	58-00849-15	Tube, Slit 5/8 ID X 7	1
25	58-00849-02	Tube, Slit 5/8 ID X 16	1
26	66U1-3882-3	Wire Tie	AR
27	58-04610-00	Protector	1
28	44-00423-00	Clamp, Conduit 1/4	1
29	66U1-5371-14	Screw, Mach Hex Head 1/4-20 X 3/4	AR
30	58-00065-82	Grommet .50 ID X 1.50 OD	AR
31	42-00597-00	Insulation Sensor Housing	1
32	42-00597-01	Insulation Sensor Housing	1
33	68-14505-00	Plate	1
34	42-00595-00	Gasket	1

18 CONTROLLER KIT (SHEET 3 OF 5)

35	34-00662-09	Washer, Plain 10	AR
36	68-14506-00	Plate	1
37	42-00596-00	Gasket	1
38	68-14550-00	Bracket, Sensor	1
39	34-00928-20	Rivet, Blind	AR
40	34-06354-00	Washer, Lock	AR
41	66U1-5321-2	Washer, Plain	AR
42	34-06355-00	Screw	AR

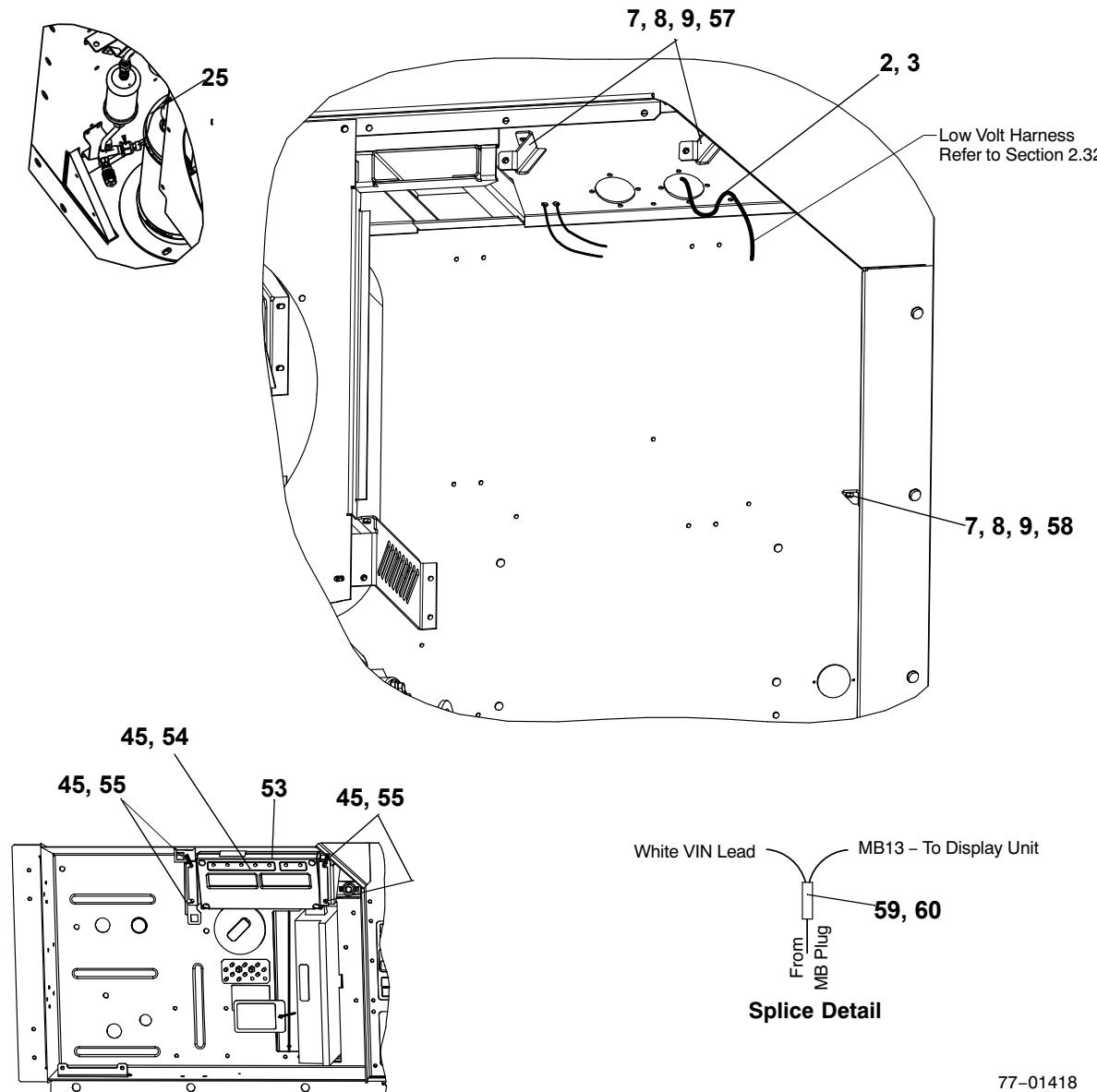
18 CONTROLLER KIT (SHEET 4 OF 5)



77-01418

43	34-06051-32	Rivnut	AR
44	44-01041-04	Clamp, Cushioned	2
45	66U1-5371-7	Screw, Machine Hex Head 10-24 X .500 Sstd	AR
46	66U1-5331-3	Washer, Lock 10 Spring	AR
47	34-01178-23	Screw, Hex Head 8-32 X .75L	AR
48	58-00969-00	Wire Tie	AR
49	58-04315-00	Base, Mounting	2
50	44-00361-00	Clip, Retaining	4
51	42-00425-36	Insulation, Tube Pre-Taped	1
52	34-01178-22	Screw, Hex Head	AR

18 CONTROLLER KIT (SHEET 5 OF 5)

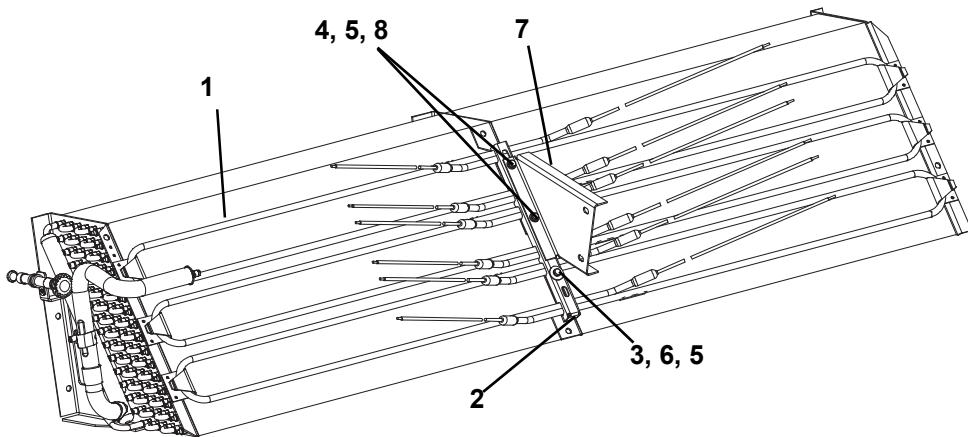


77-01418

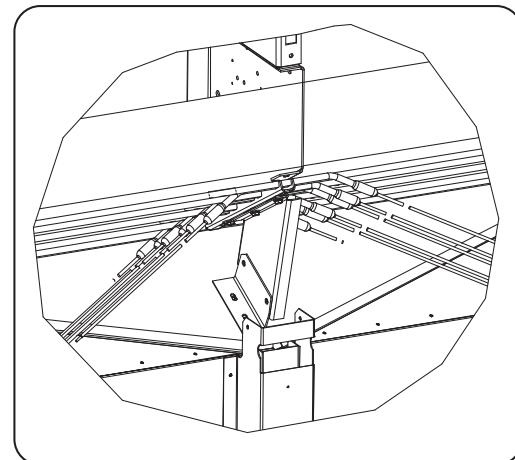
53	12-00433-03	Module, Display	1
54	66U1-5321-8	Washer, Plain 10	AR
55	69NT35-2692-4	Washer, Fender	AR
56	68-16213-00	Bracket	1
57	68-16131-00	Bracket	2
58	68-16133-00	Bracket	1
59	66U2-1132-2	Connector	1
60	66U1-2583-43	Tube Heat Shrink	1

77-01418-00

19 HEATER KIT



Installed View

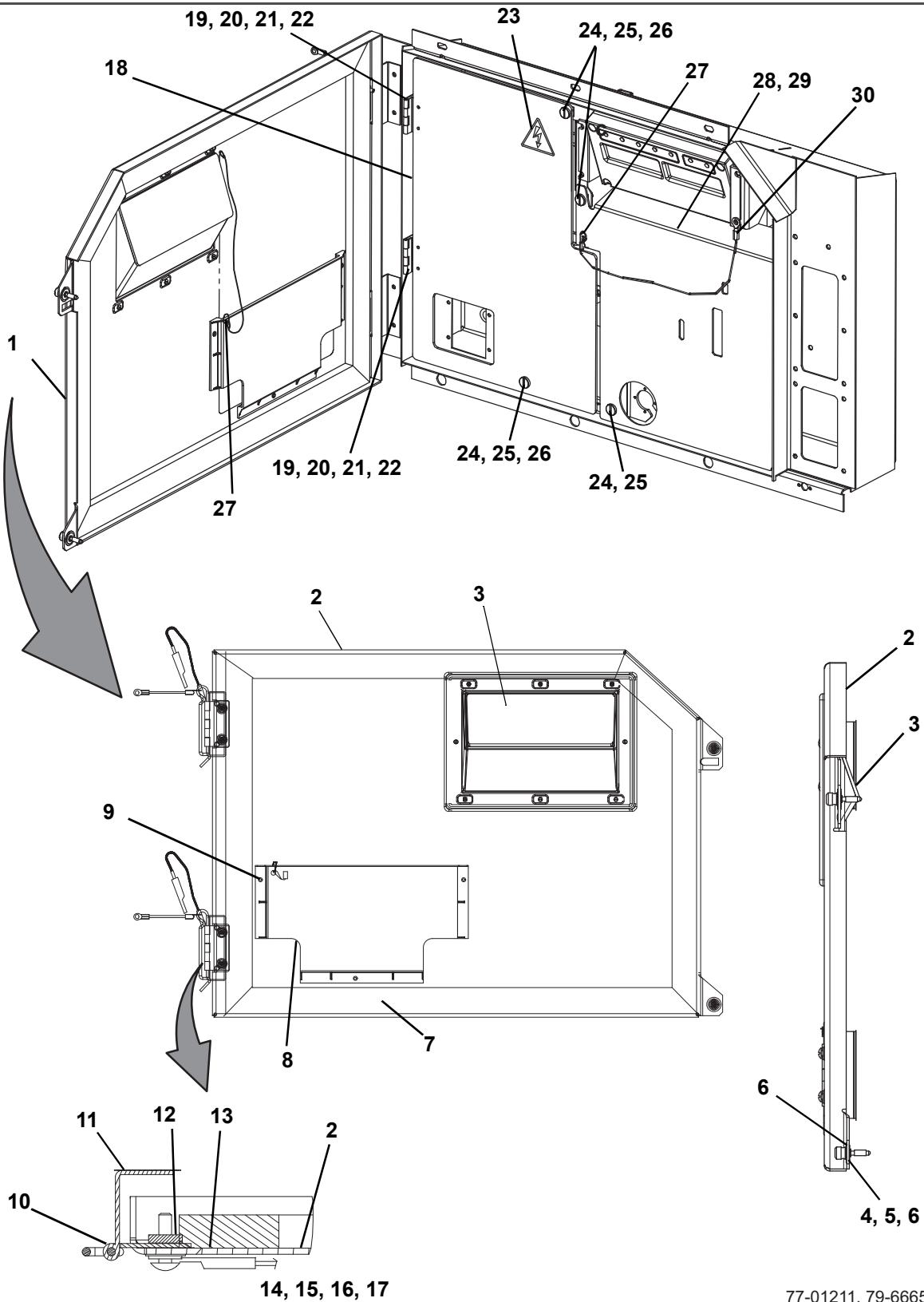


77-01614

Item	Part Number	Description	Qty
1	24-66603-00	Heater	6
2	86-04956-00	Retainer Assembly	1
3	69NT-35-2692-1	Washer, Fender, 1/4 - .933 - 1.015 OD	AR
4	34-00655-12	Screw, Cap Hex Head, 1/4 - 20 x 1.50	AR
5	34-00663-11	Washer, Lock, 1/4 Spring	AR
6	34-00655-10	Screw, Cap Hex Head, 1/4 - 20 x 1.25	AR
7	68-17083-00	Bracket, Aluminum	1
8	66-U-1-5321-3	Washer, Plain, 1/4 N Type A	AR

77-01614-01

20 DOOR ASSEMBLY (SHEET 1 OF 2)



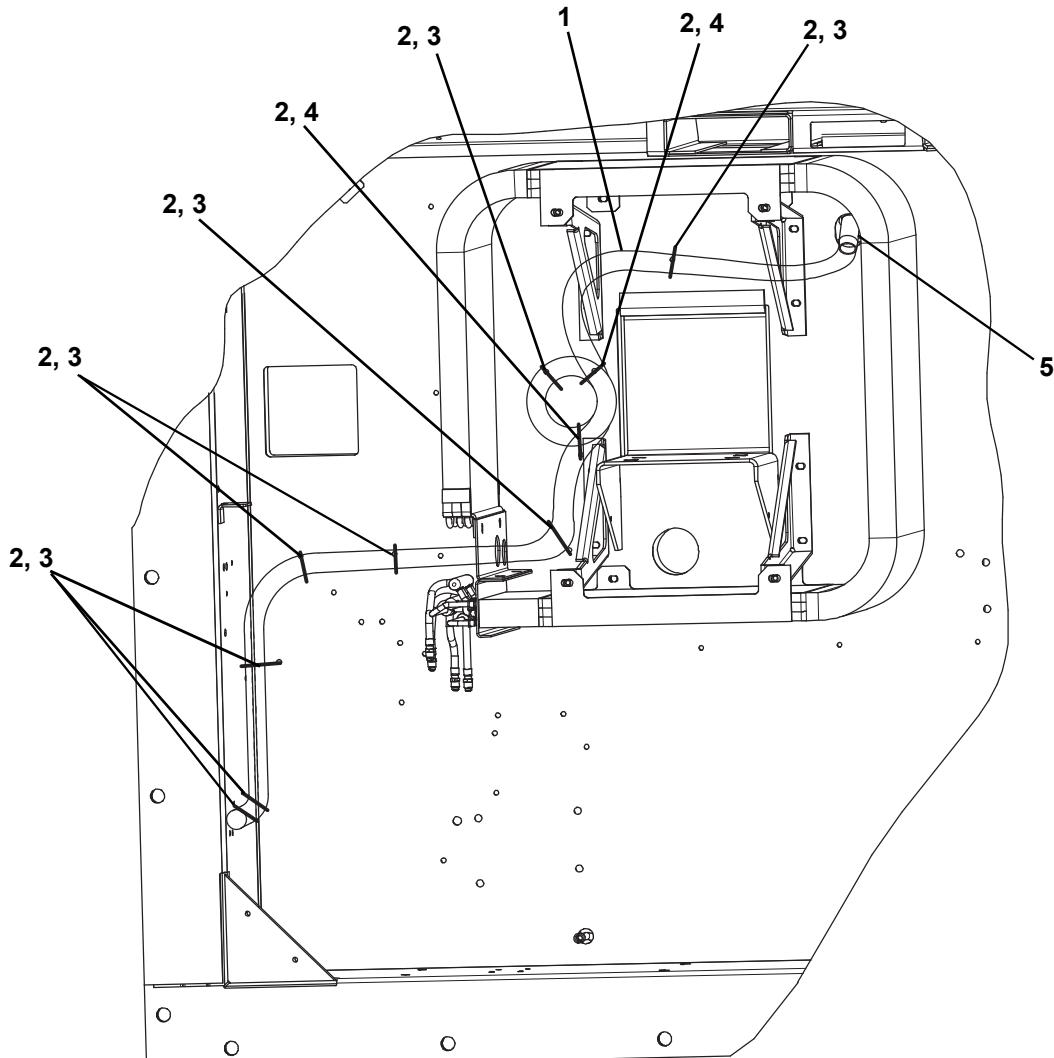
77-01211, 79-6665

20 DOOR ASSEMBLY (SHEET 2 OF 2)

Item	Part Number	Description	Qty
1	79-66655-12	Door Assembly, Includes:	1
2	86-04461-04	Door	1
3	58-04366-00	Window Controller Door	1
4	66U1-6811-12	Screw, Retaining	AR
5	34-06169-00	Washer, Retaining	AR
6	34-06053-00	Washer	AR
7	42-00270-02	Gasket, Control Box Door	1
8	58-04389-00	Pocket, Placard	1
9	34-06107-00	Rivet, Blind	AR
10	44-00300-00	Hinge Assembly With Tethered Pin	2
11	58-04101-01	Protector	2
12	34-01167-01	Nut, Retainer 10-24 X 1.75	AR
13	58-04101-00	Protector	2
14	66U1-2403-1	Screw, Machine 10-24 X 0.750	AR
15	34-00663-09	Washer, Lock 10 Spring	AR
16	66U1-5321-8	Washer, Plain	AR
17	34-06053-05	Washer	AR
18	58-04244-00	Panel High Voltage Shield	1
19	66U1-2403	Screw, Machine 10-24 X 0.500	AR
20	44-00343-00	Hinge	2
21	34-00928-20	Rivet, Blind	AR
22	AU-27JR-131	Washer, Lock	AR
23	62-03957-04	Decal, Warning High Voltage	1
24	34-06139-00	Retainer 1/4" Stud	4
25	34-06139-01	Stud 1/4" Retaining	4
26	34-06139-04	Receptacle	3
27	66U1-3882	Wire Tie	AR
28	58-04245-07	Panel Low-Volt Shield without EBS	1
29	58-04245-08	Panel Low-Volt Shield with EBS	1
30	69NT35-636-2	Tether Assembly	1

77-01211-14, 79-66655-12

21 DRAIN KIT (SHEET 1 OF 2)

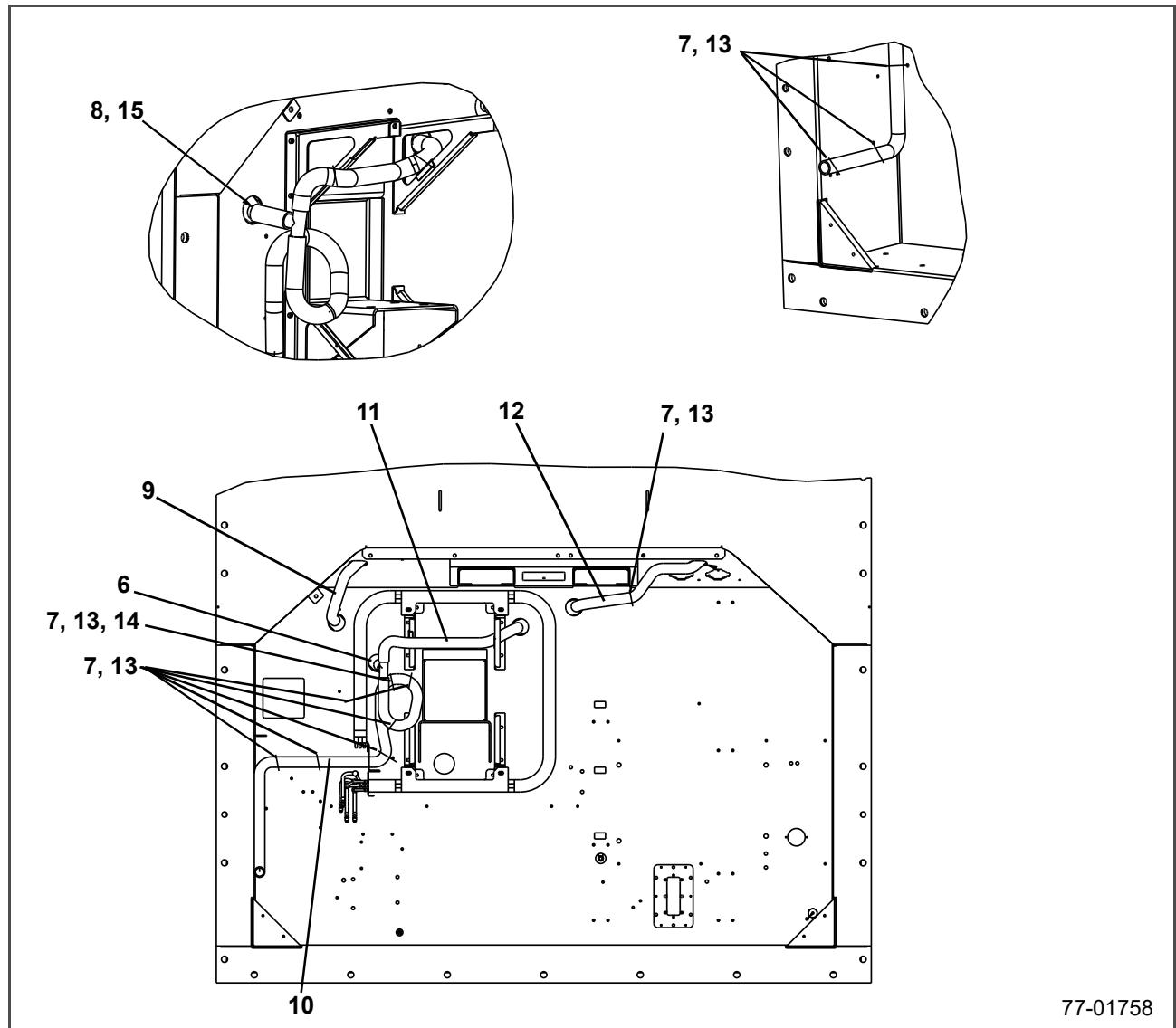


77-01674

Item	Part Number	Description	Qty
1	58-04539-05	Tube, Flexible	1
2	58-04316-00	Base, Mounting	10
3	66U1-3882	Wire Tie	AR
4	58-00969-00	Wire Tie	AR
5	56-09149-00	Coupling	1

77-01674-00

21 DRAIN KIT (SHEET 2 OF 2)

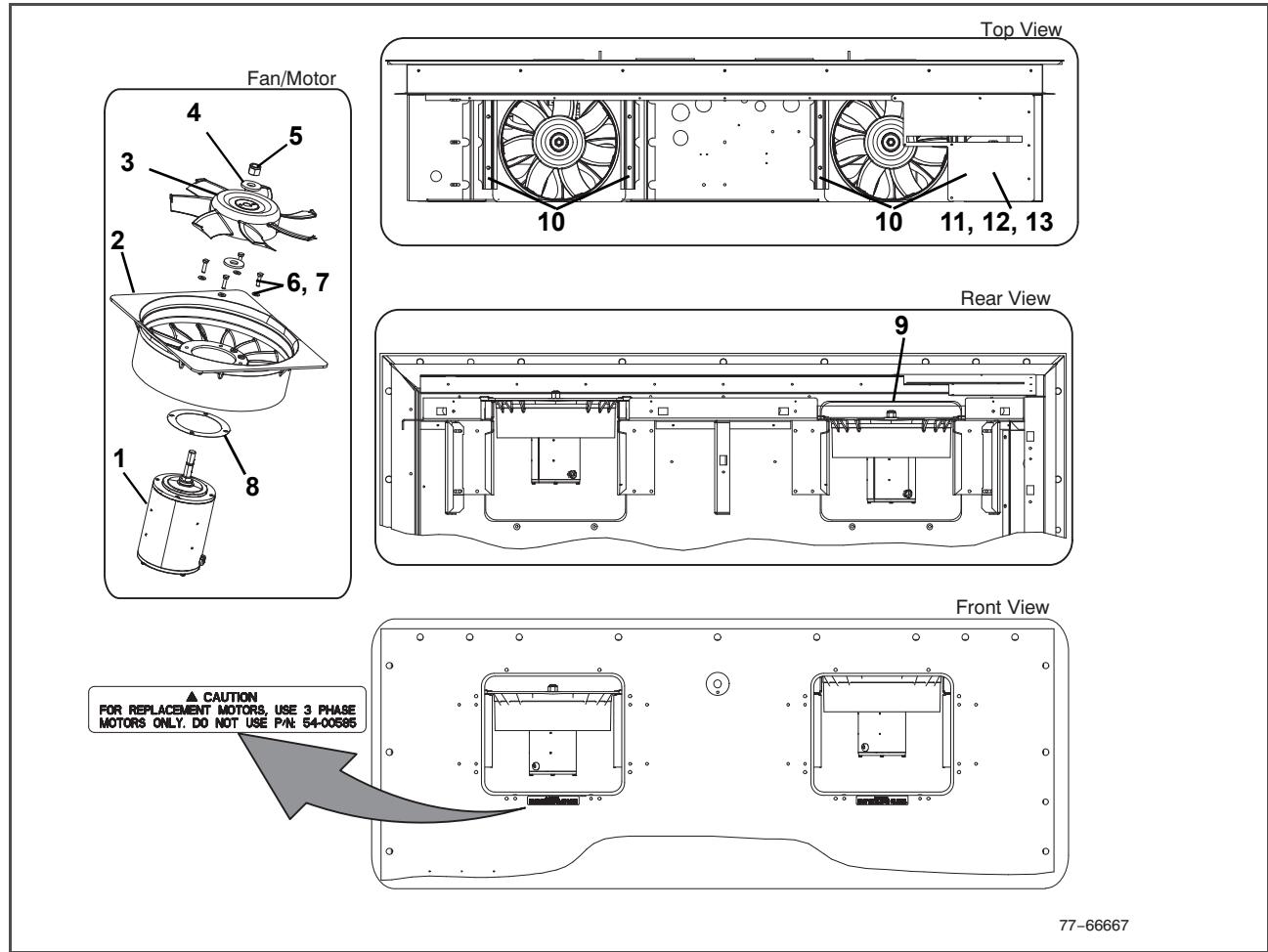


77-01758

Item	Part Number	Description	Qty
6	58-04202-02	Tee	1
7	58-04316-00	Base, Mounting	10
8	58-04539-10	Tube, Flexible	1
9	58-04539-11	Tube, Flexible	1
10	58-04539-15	Tube, Flexible	1
11	58-04539-16	Tube, Flexible	1
12	58-04539-17	Tube, Flexible	1
13	66U-1-3882	Wire Tie	AR
14	66U-1-3882-3	Wire Tie	AR
15	66CH-1-1172-2	Trim, Flexible	2

77-01758-00

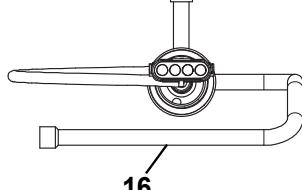
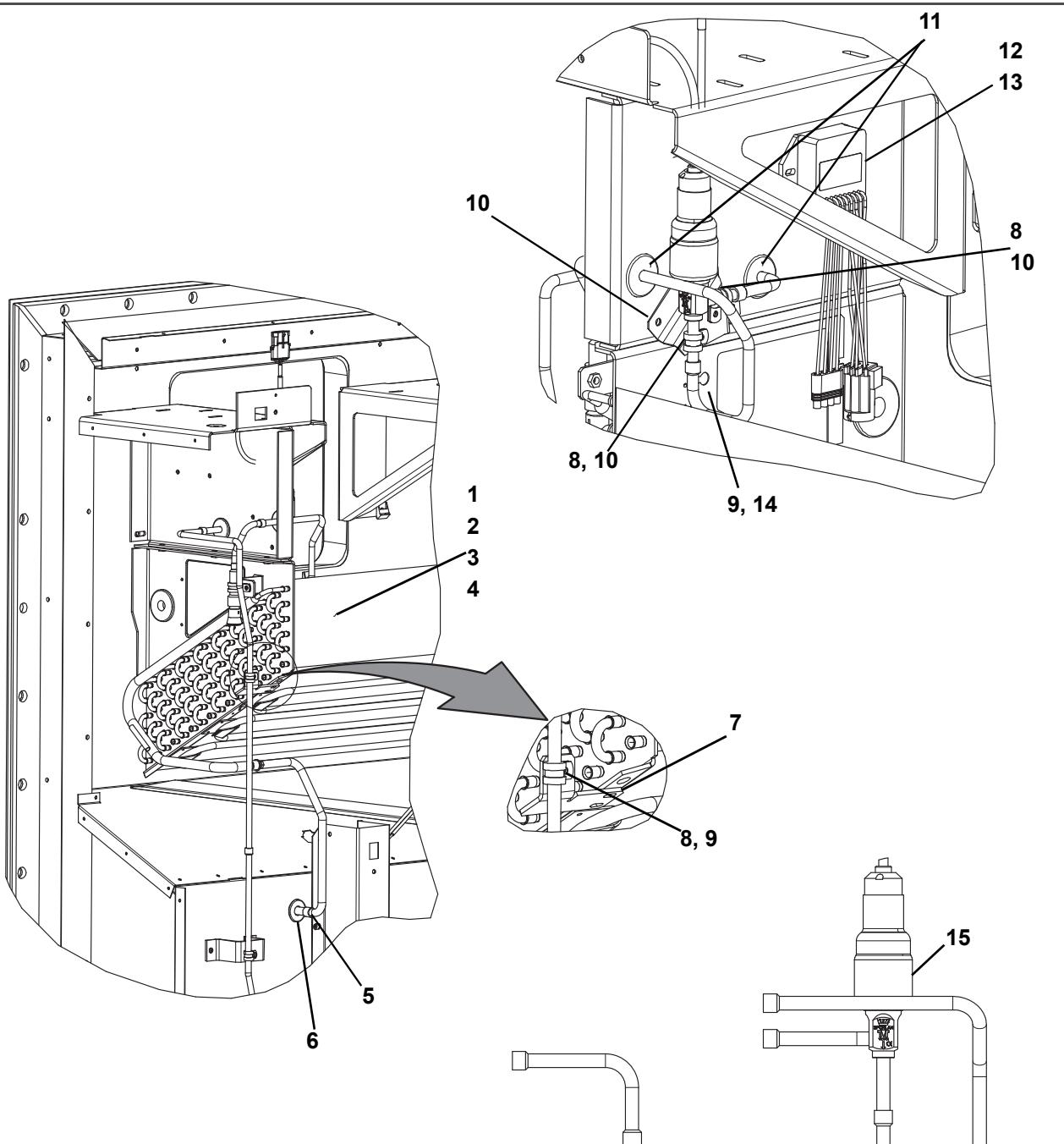
22 EVAPORATOR FAN ASSEMBLY



Item	Part Number	Description	Qty
1	54-00648-20	Evaporator Motor	2
2	48-00413-00	Stator	2
3	38-00626-00	Evaporator Fan	2
4	34-00616-06	Washer, Special 5/8, 18-8	AR
5	34-00795-17	Nut, Self Lock	AR
6	34-06165-08	Screw, Cap Hex Head 1/4-20	AR
7	66U1-5321-3	Washer, Plain 1/4 N Type A	AR
8	58-04770-00	Protector	2
9	66U1-2552-185	Gasket	1
10	69NT43-295	Bracket Assembly	4
11	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	AR
12	34-00663-11	Washer, Lock 1/4 Spring	AR
13	69NT35-2692-1	Washer, Fender 1/4	AR

77-66667-03

23 EVAPORATOR KIT (SHEET 1 OF 2)

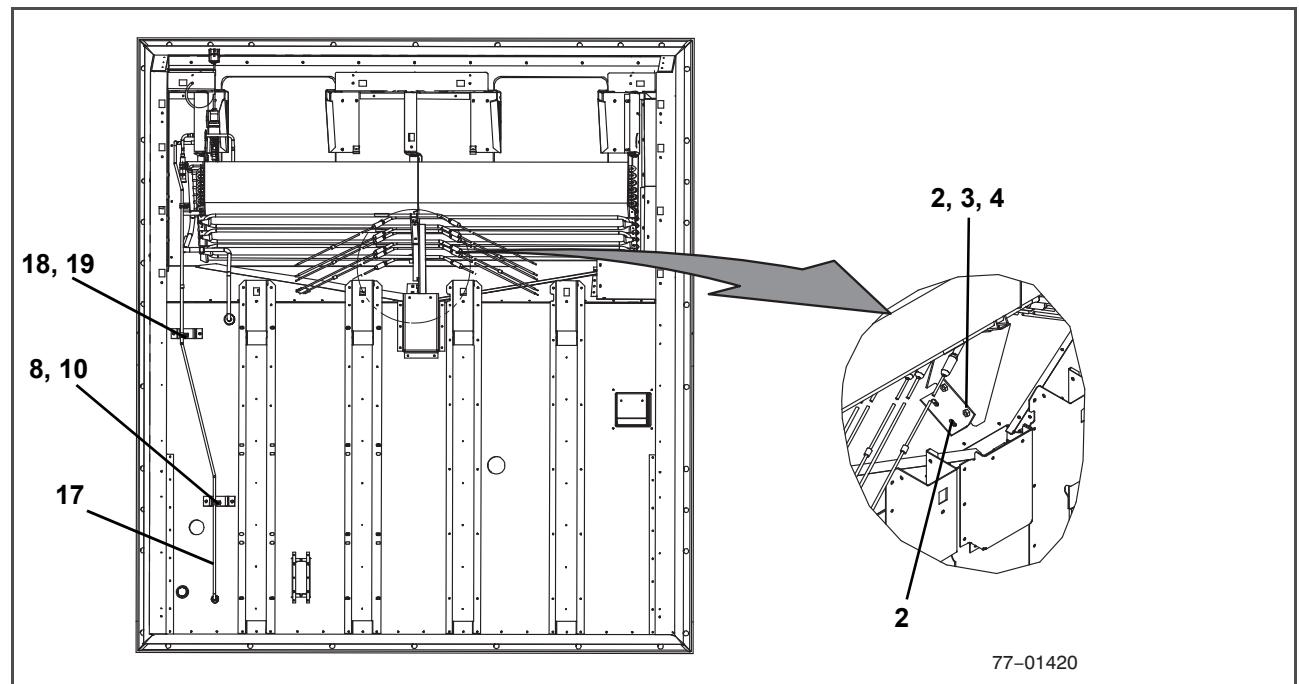


EVXV Assembly

16

77-01420-00

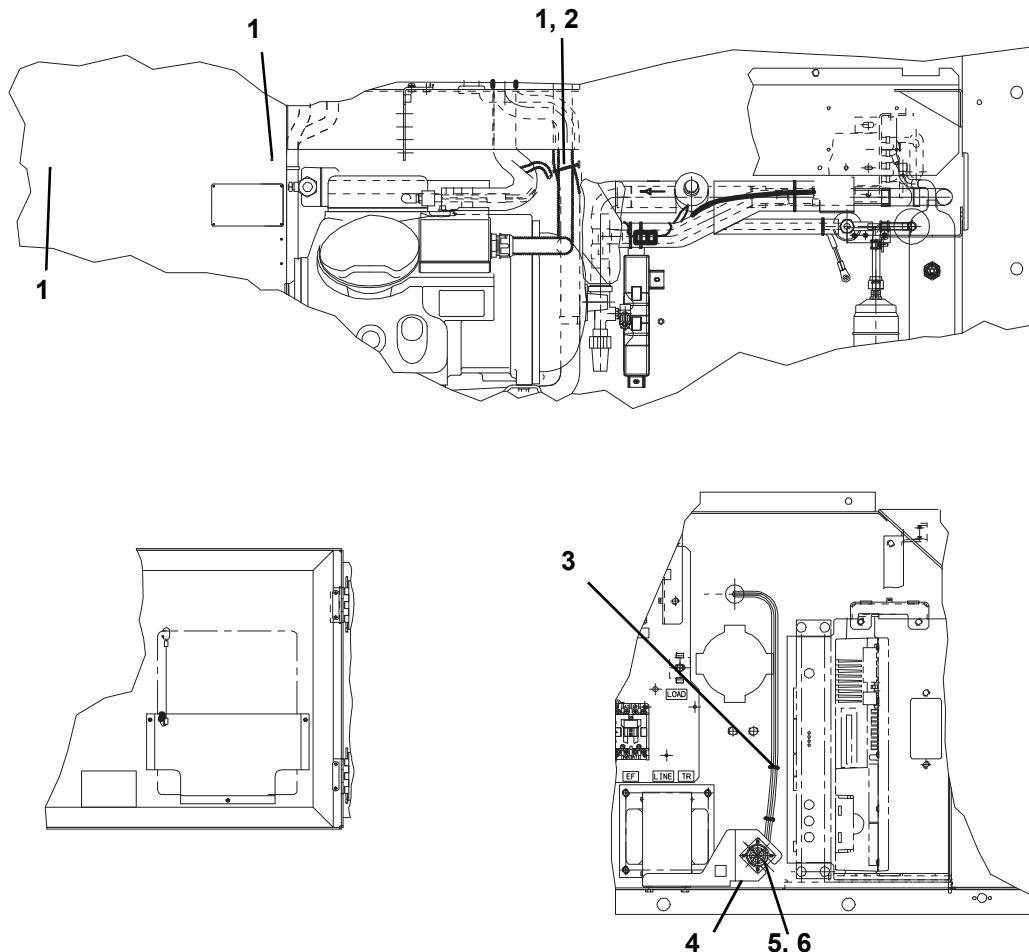
23 EVAPORATOR KIT (SHEET 2 OF 2)



Item	Part Number	Description	Qty
1	81-04131-00	Evaporator Coil Assembly	1
2	66U1-5321-3	Washer, Plain 1/4	AR
3	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	AR
4	34-00663-11	Washer, Lock 1/4 Spring	AR
5	56-08812-00	Tube, Suction	1
6	58-00065-56	Grommet	AR
7	68-16089-00	Bracket	1
8	44-00370-02	Clamp, Cushioned	5
9	66U1-5381-1	Screw, Hex Head 10-24 X0.75	AR
10	66U1-5371-6	Screw, Mach Hex Head 10-24 X 0.750	AR
11	58-00065-91	Grommet	AR
12	10-00388-00	Powerpack Stepper Motor	1
13	66U1-5321-8	Washer, Plain	AR
14	68-16246-00	Plate, Cover	1
15	14-00382-00	Electronic Expansion Valve (EEV)	1
16	56-08921-00	Tube	1
17	56-08852-00	Tube	1
18	68-15962-00	Bracket	2
19	34-00928-09	Rivet, Blind	AR

77-01420-00?

24 INTERROGATOR KIT

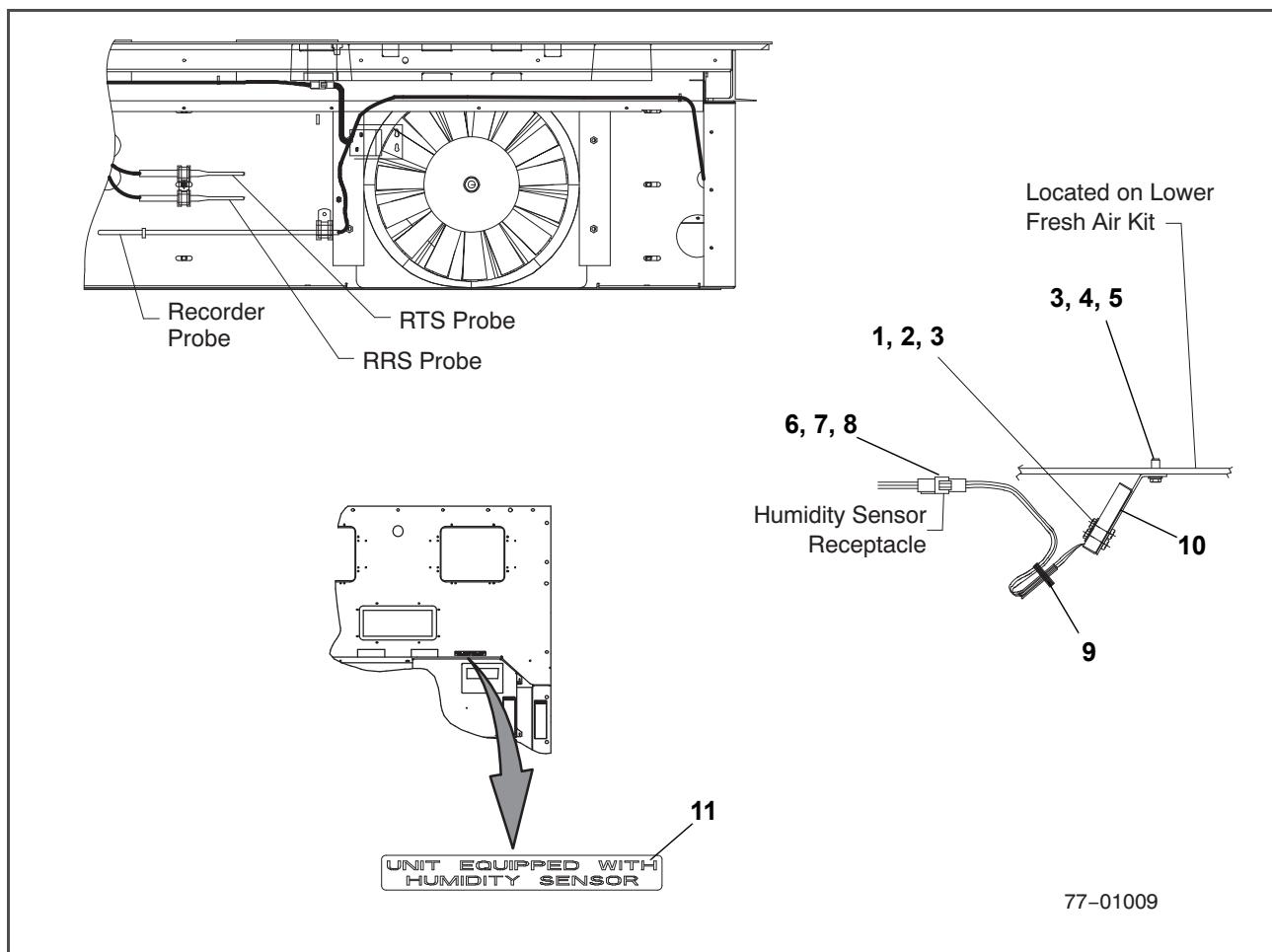


77-01223

Item	Part Number	Description	Qty
1	58-04316-00	Base, Mounting	3
2	66U1-3882-3	Wire Tie	AR
3	66U1-3882	Wire Tie	AR
4	68-14482-02	Bracket	1
5	34-06142-00	Rivet	AR
6	22-01660-03	Receptacle (5 Pin)	1

77-01223-02/07

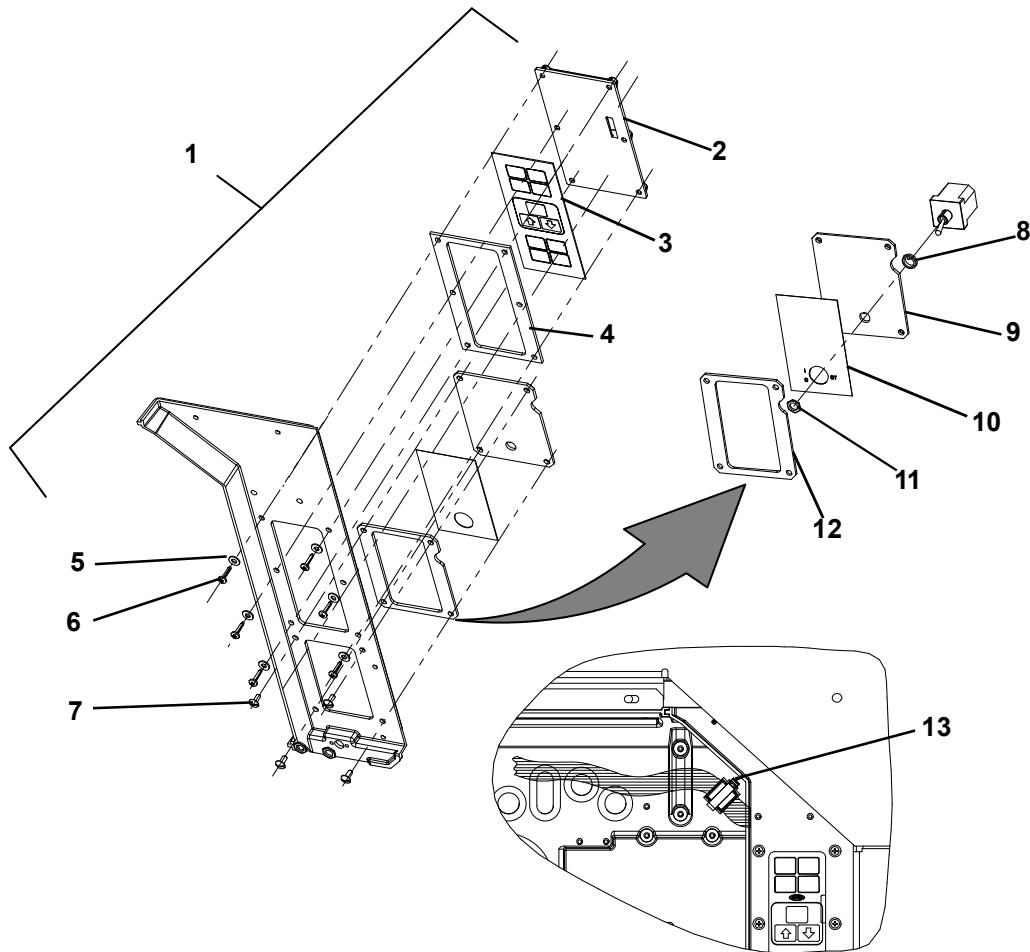
25 HUMIDITY KIT



Item	Part Number	Description	Qty
1	12-00745-00SV	Humidity Sensor	1
2	66U1-5371-10	Screw, Machine Hex Head 10-24 X 1.00	AR
3	66U1-5321-8	Washer, Plain 10	AR
4	AU-27JR-131	Washer, Lock	AR
5	66U1-5371-7	Screw, Machine Hex Head	AR
6	22-01613-06	Plug 3 Pin	1
7	22-01613-07	Lock, Secondary 3 Pin	1
8	22-01613-13	Contact Socket	3
9	66U1-3882	Wire Tie	AR
10	68-13181-03	Bracket	1
11	69NT-35-3907	Label Humidity Sensor	1

77-01009-11

26 PANEL KIT

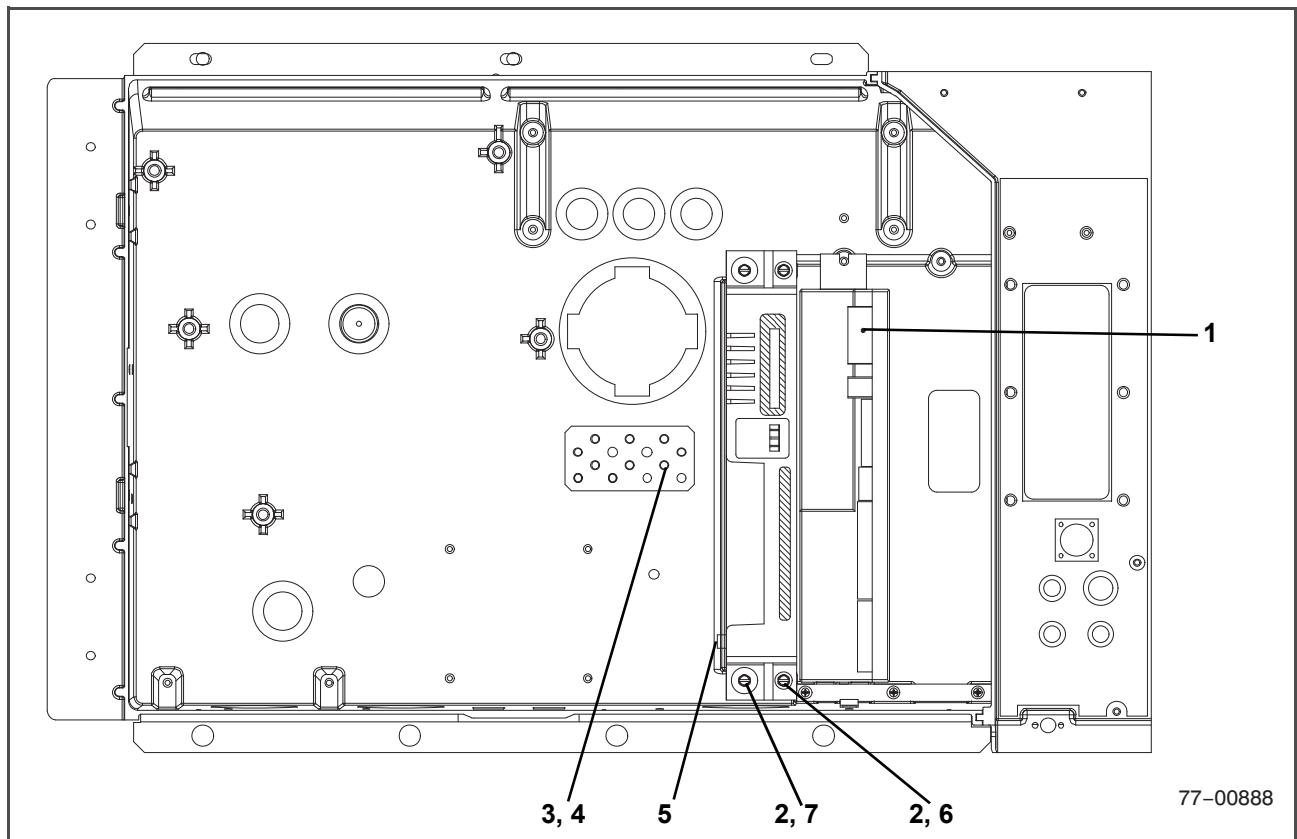


77-01150

Item	Part Number	Description	Qty
1	79-66669-04	Key Pad Assembly Includes:	1
2	NSS	Plate, Backup	1
3	NSS	Key Pad	1
4	NSS	Gasket Keypad	1
5	NSS	Washer, Plain	AR
6	NSS	Screw	AR
7	34-66629-05	Screw, Machine 10-24 X 0.750	AR
8	66U1-9752	Seal	1
9	68-14796-00	Plate, Switch St	1
10	62-10914-00	Label St/Switch	1
11	10-01129-20	Nut, Hex	AR
12	42-00608-00	Gasket Switch Plate	1
13	44-00391-00	Clamp	1

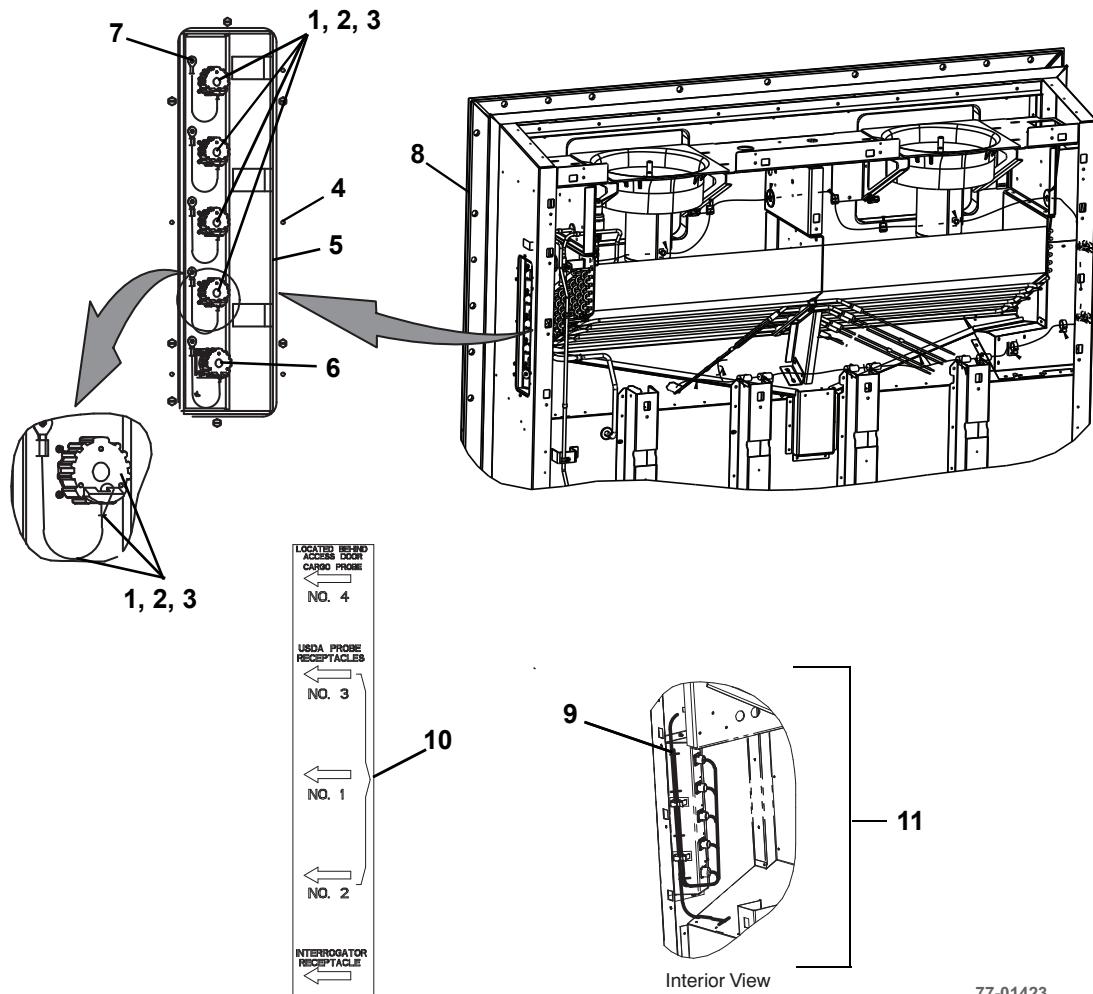
77-01150-01

27 CONTROL BOX - REMOTE MONITORING UNIT (RMU)



Item	Part Number	Description	Qty
1	12-00573-01sv	Remote Monitoring Unit (RMU)	1
2	66U1-5371-7	Screw, Machine Hex Head 10-24 X 0.500	AR
3	AT-39JA-171	Nut, Hex	AR
4	AU-27JR-171	Washer, Lock 1/4	AR
5	22-01556-00	Connector	1
6	66U1-5321-8	Washer, Plain #10 Type A	AR
7	69NT35-2692-4	Washer, Fender #10	AR

77-00888-03

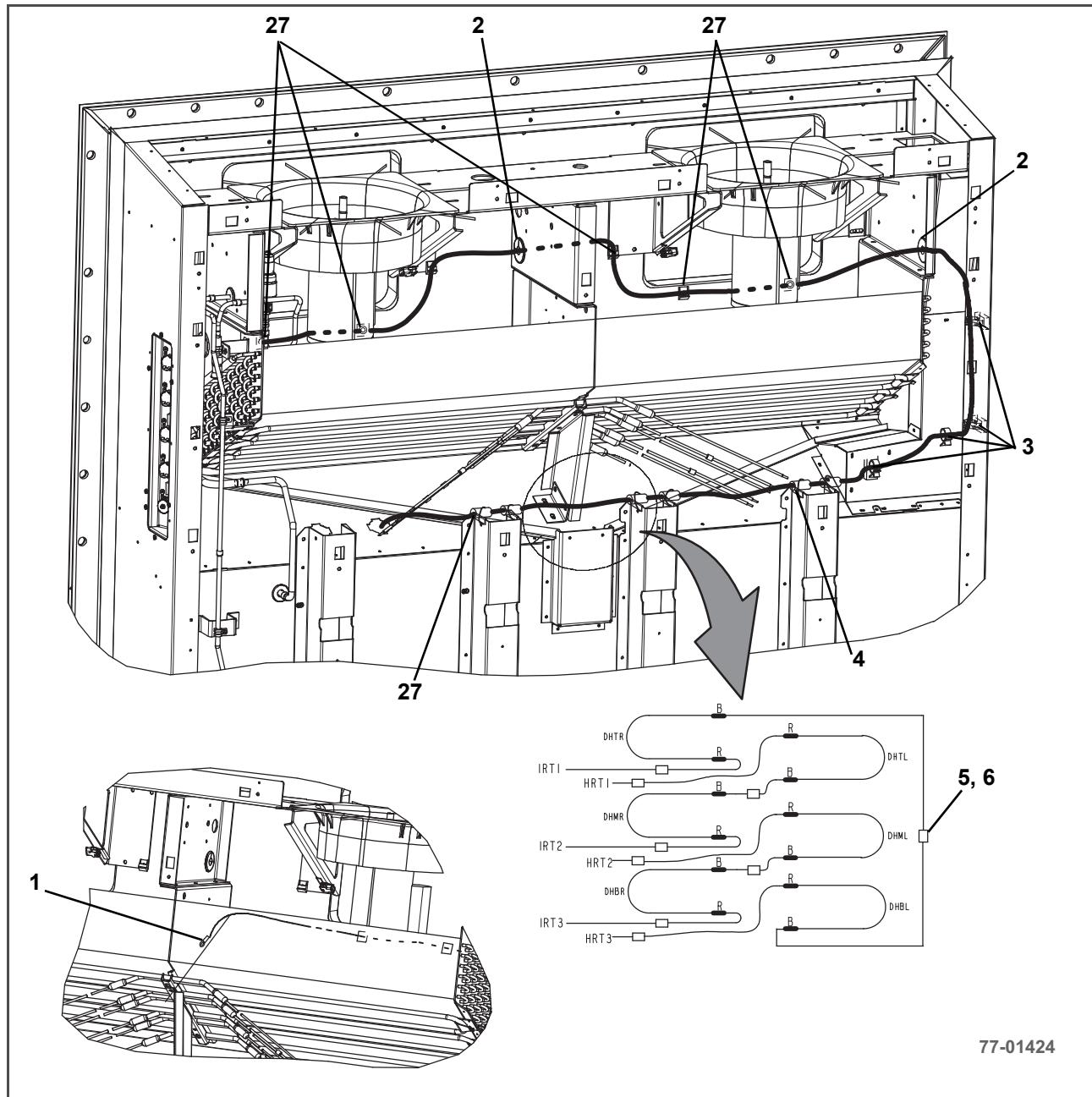


Item	Part Number	Description	Qty
1	69NT35-636-1	Tether Assembly	5
2	22-02205-00	Connector	5
3	22-01660-02	Cap, Dust	4
4	66U1-5371-7	Screw, Machine Hex Head	AR
5	68-14444-00	Panel Assembly	1
6	22-01660-05	Cap, Dust	1
7	34-06142-00	Rivet	AR
8	68-15980-01	Channel Assembly	1
9	66U1-3882	Wire Tie	AR
10	62-11274-01	Label USDA	1

28 USDA (SHEET 2 OF 2)

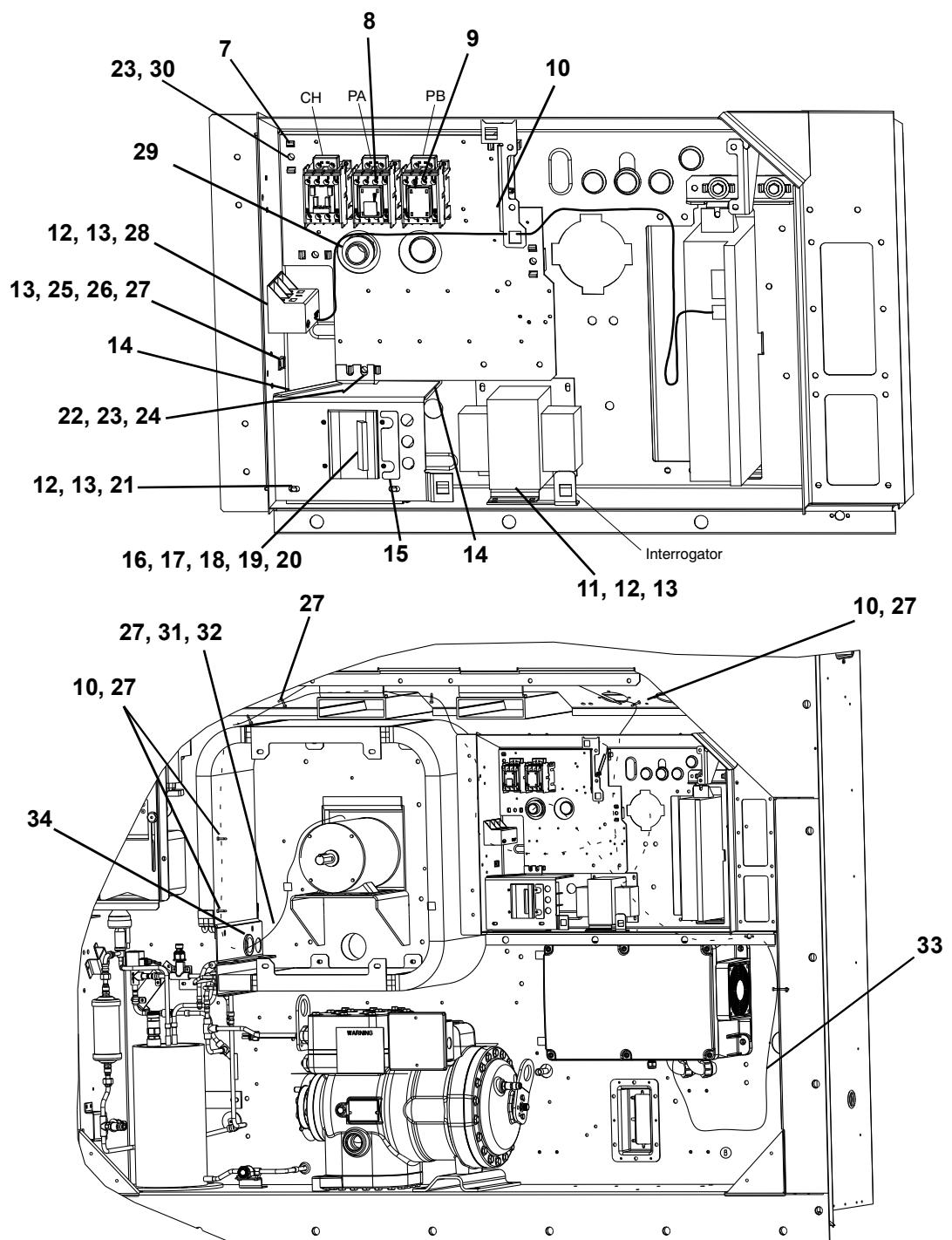
11	76-00760-00	Side USDA Field Install Includes:	1
4	66U-1-5371-7	Screw, Machine Hex Head	7
9	66U-1-3882	Wire Tie	4
10	62-11274-01	Label USDA	1
	22-01613-14	Contact	13
	34-00928-09	Rivet, Blind	10
	62-11275-00	Label USDA	1
	68-14701-00	Plate	1
	79-01879-00	Panel Assembly	1
			77-01423-00

29 WIRING KIT (SHEET 1 OF 3)



Item	Part Number	Description	Qty
1	34-01178-22	Screw, Hex Head	AR
2	58-04273-00	Grommet	AR
3	44-00361-00	Clip, Retaining	AR
4	66CH1-1172-52	Trim, Flexible	6
5	66U1-3803	Tube, Heat Shrink	9
6	22-01292-02	Butt Splice	AR
7	58-00967-00	Spacer	AR
8	62-11277-00	Label Contactor Cover	1

29 WIRING KIT (SHEET 2 OF 3)



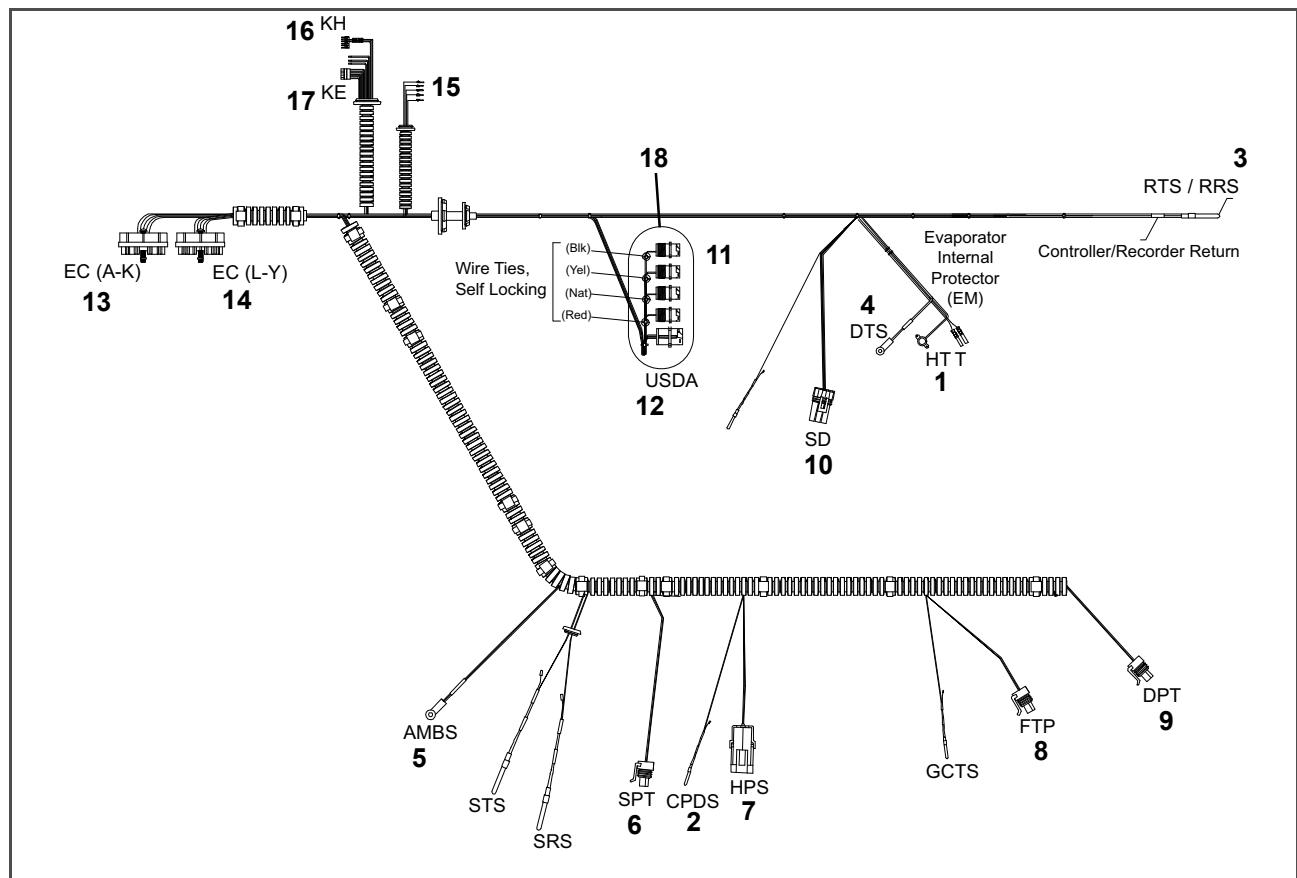
77-01424

29 WIRING KIT (SHEET 3 OF 3)

9	10-00431-11	Cover Contactor	2
10	58-04316-00	Base, Mounting	5
11	10-00332-06	Transformer Base Unit	1
12	66U1-5321-8	Washer, Plain 10 Type A	10
13	66U1-5371-7	Screw, Machine Hex Head 10-24 X .500 Sltd	11
14	66CH1-1172-52	Trim, Flexible	2
15	69NT35-9073-1	Label CB1	1
16	66U1-7842-12	Circuit Breaker 3 Pole, 600 Volt	1
17	66U1-6651-19	Screw, Machine Pan Head	4
18	34-00663-07	Washer, Lock	4
19	66U1-7842-6	Nut, Hex	6
20	66U1-7842-7	Washer, Flat	12
21	69NT35-6278	Bracket	1
22	34-00655-10	Screw, Cap Hex Head 1/4-20 X 1.25	1
23	66U1-5321-7	Washer, Plain 1/4	5
24	34-06053-13	Washer	1
25	34-00663-09	Washer, Lock	1
26	58-04246-00	Ty-Rap Base	1
27	66U1-3882	Wire Tie	56
28	10-00439-01	Transformer, Current Sensor	1
29	22-02302-03	Connector	1
30	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	4
31	58-00848-50	Tube, Slit	1
32	58-00848-21	Tube, Slit	1
33	66SC0603AA0600	Conduit, Spiral	1
34	58-00065-44	Grommet	1

77-01424-00

30 HARNESS - LOW VOLTAGE (SHEET 1 OF 2)

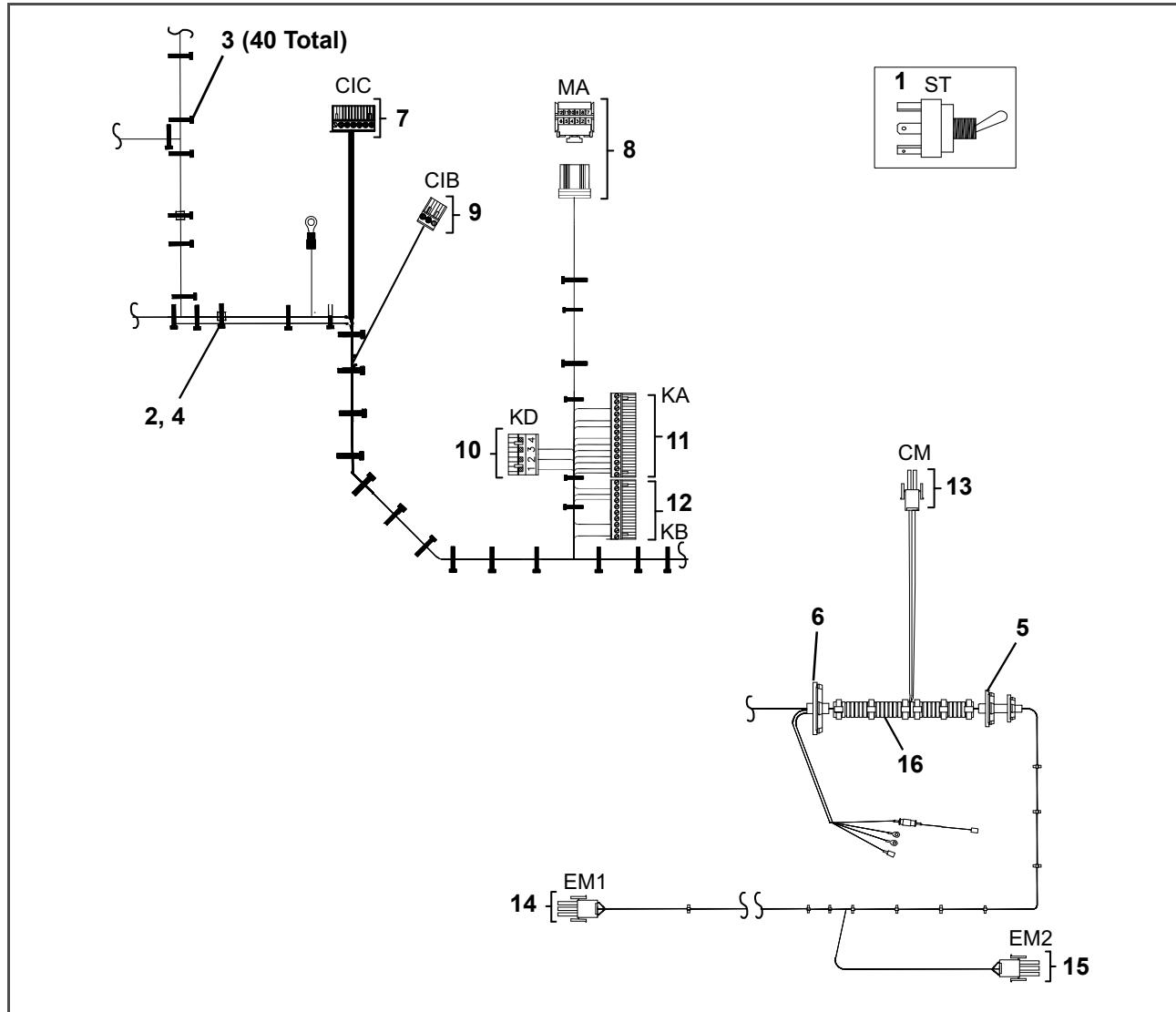


Item	Part Number	Description	Qty
	22-04282-01	Low Volt Wire Harness	1
1	12-00170-08	HTT Thermostat Evaporator Defrost	1
2	12-00726-00	CPDS Thermistor	1
3	12-00500-01SV	RTS/RRS Thermistor	1
4	12-00495-01	DTS Thermistor	1
5	12-00495-00	AMBS Thermistor	1
6		Suction Pressure Transducer (SPT) – Includes:	
	22-02448-00	Block	1
	22-01777-03	Terminal	3
7		High Pressure Switch (HPS) – Includes:	
	22-02392-00	Block	1
	22-02393-01	Terminal	2
	22-02394-00	Seal	2
8		Flash Tank Pressure Transducer (FTP) – Includes:	
	22-02448-00	Block	1
	22-01777-03	Terminal	3
9		Discharge Pressure Transducer (DPT) – Includes:	
	22-02448-00	Block	1
	22-01777-03	Terminal	3

30 HARNESS - LOW VOLTAGE (SHEET 2 OF 2)

10		Stepper Motor Drive (SD) – Includes:	
	22-01835-00	Block	1
	22-01566-01	Terminal	5
	22-02394-02	Seal	5
11		USDA 1 – Includes:	
	22-01660-00	Block	4
	22-01613-12	Terminal	8
	22-01614-06	Seal	4
12		USDA 2 – Includes:	
	22-01660-03	Block	1
	22-01613-12	Terminal	12
13		EC (A-K) – Includes:	
	22-01777-06	Seal	1
	22-01777-07	Retainer	1
	66U1-6651-24	Bolt	1
	22-01777-00	Block	1
	22-01777-03	Terminal	22
	22-01777-02	Seal	4
14		EC (L-Y) – Includes:	
	22-01777-06	Seal	1
	22-01777-07	Retainer	1
	66U1-6651-24	Bolt	1
	22-01777-03	Terminal	26
	22-01777-01	Block	1
15	22-66656-30	Harness	1
16		KH	
	22-04016-00	Block	1
	22-01735-00	Terminal	2
17		KE	
	22-04031-01	Connector	1
	22-04032-00	Terminal	5
18		HPV	
	22-01836-00	Block	1
	22-02393-01	Terminal	5
	22-02394-03	Seal	5

31 HARNESS - HIGH VOLTAGE (SHEET 1 OF 3)

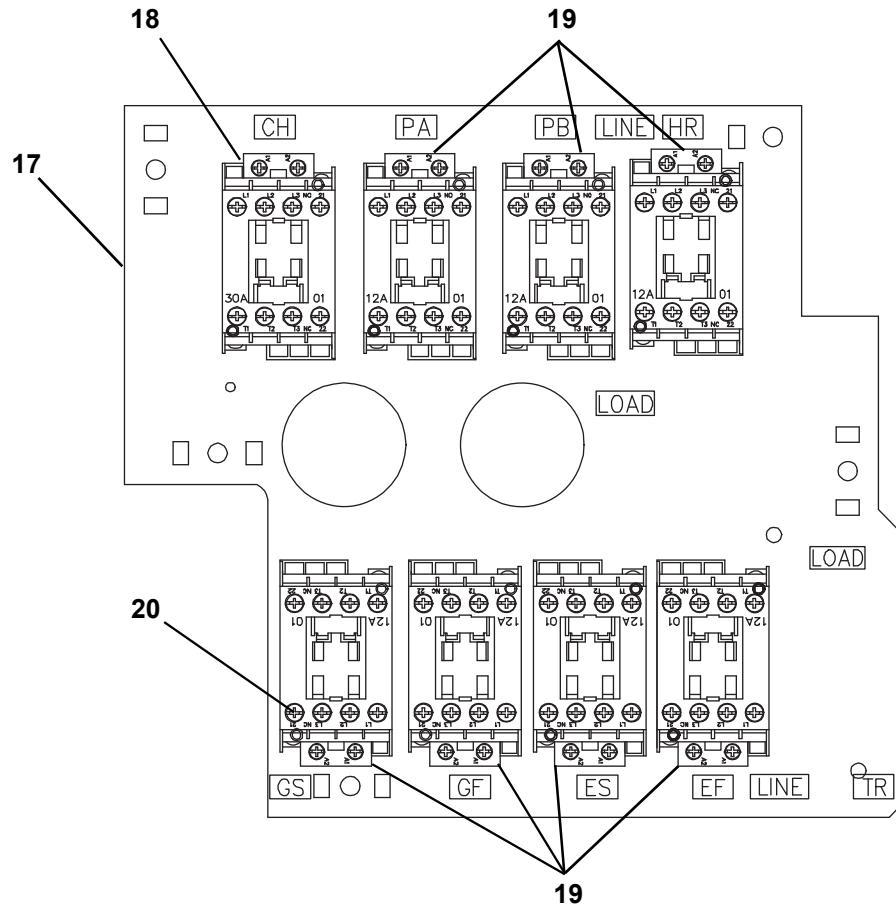


Item	Part Number	Description	Qty
	91-00419-00	High Volt Wire Harness	1
1	10-01129-11	Switch, Toggle	1
2	58-04316-00	Ty-Wrap Base, Mounting	2
3	66U1-3882-4	Wire Tie	AR
4	66U1-3882	Wire Tie 1/16-1-3/4 Self locking	AR
5	58-04291-00	Grommet	AR
6	58-04291-02	Grommet	AR
7		CIC Includes:	
	22-01556-06	Connector	1
	22-02324-09	Terminal	3
8		MA Includes:	
	22-01622-01	Connector	1

31 HARNESS - HIGH VOLTAGE (SHEET 2 OF 3)

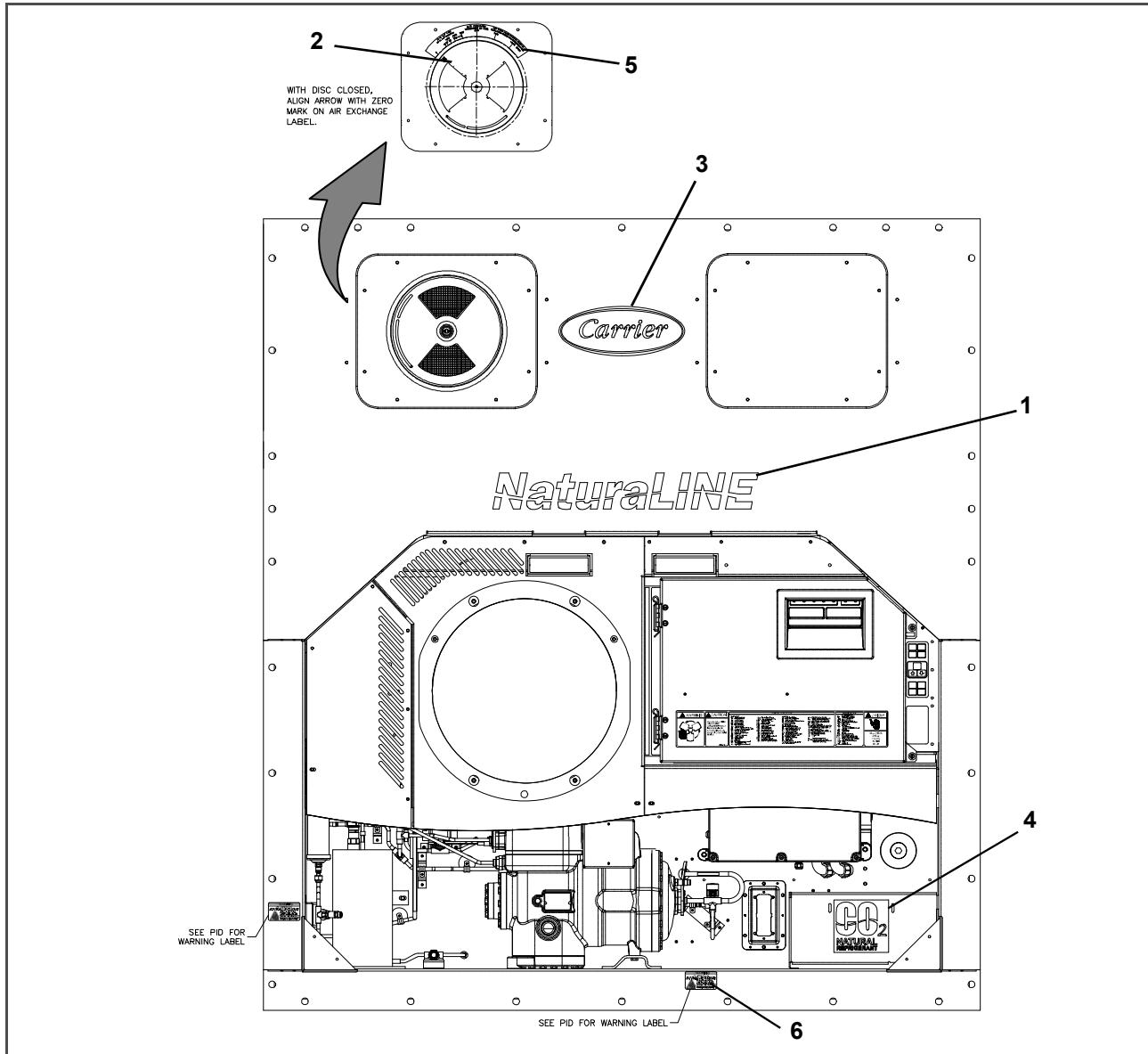
	22-01622-03	Terminal	5
9		CIB Includes:	
	22-01556-04	Connector	1
	22-01735-00	Terminal	3
10		KD Includes:	
	22-04031-00	Connector	1
	22-04032-00	Terminal	4
11		KA Includes:	
	22-01556-02	Connector	1
	22-01735-00	Terminal	10
12		KB Includes:	
	22-01556-01	Connector	1
	22-01735-00	Terminal	5
13		CM Includes:	
	22-01997-20	Plug	1
	22-01997-06	Terminal	7
	22-01997-08	Sealing Plug	3
	22-01997-21	Wire Seal	1
	22-01997-22	Interface Seal	1
14		EM1 Includes:	
	22-01997-20	Plug	1
	22-01997-06	Terminal	7
	22-01997-08	Sealing Plug	3
	22-01997-21	Wire Seal	1
	22-01997-22	Interface Seal	1
15		EM2 Includes:	
	22-01997-20	Plug	1
	22-01997-06	Terminal	7
	22-01997-08	Sealing Plug	3
	22-01997-21	Wire Seal	1
	22-01997-22	Interface Seal	1
16	66U1-8292-1	Wire Cover	3
			91-0440-00

31 HARNESS - HIGH VOLTAGE (SHEET 3 OF 3)



Item	Part Number	Description	Qty
17	68-17783-00	Panel	1
18	10-00431-07	Contactor, 30 Amp	1
19	10-00431-06	Contactor, 12 Amp	7
20	34-06243-00	Screw (with panel)	16

32 LABELS



Item	Part Number	Description	Qty
1	62-11598-00	Label, NATURALINE	1
2	66CH1-1002-33	Label, Arrow ">"	1
3	62-11600-00	Label, Carrier	1
4	62-11601-00	Label, CO ₂	1
5	62-02723-00	Label, Upper Fresh Air	1
6	62-66081-01	Warning Label, R-744	1

77-01492-00

INDEX

Numerics

10-00332-06	29–54	22-01613-12	30–57
10-00388-00	23–45	22-01613-13	3–5, 25–47
10-00431-06	31–60	22-01613-14	28–51
10-00431-07	31–60	22-01614-06	30–57
10-00431-08	29–54	22-01622-01	31–58
10-00439-01	29–54	22-01622-03	31–59
10-00482-00	11–18	22-01660-00	30–57
10-00482-20	11–18	22-01660-02	28–50
10-01129-11	31–58	22-01660-03	24–46, 30–57
10-01129-20	26–48	22-01660-05	28–50
12-00170-08	30–56	22-01733-01	7–11
12-00495-00	30–56	22-01735-00	30–57, 31–59
12-00495-01	30–56	22-01777-00	30–57
12-00500-01SV	30–56	22-01777-01	30–57
12-00573-01sv	27–49	22-01777-02	30–57
12-00686-00SV	25–47	22-01777-03	30–56, 30–57
12-00688-00	11–18	22-01777-06	30–57
12-00688-01	14–27	22-01777-07	30–57
12-00689-00	12–21	22-01835-00	30–57
12-00726-00	30–56	22-01836-00	30–57
12-55013	18–33	22-01997-06	31–59
14-00382-00	23–45	22-01997-08	31–59
14-00394-01	12–22, 15–29	22-01997-20	31–59
14-00394-20	12–21, 14–28, 15–29	22-01997-21	31–59
14-00396-00	16–30	22-01997-22	31–59
14-00396-10	14–27	22-02205-00	28–50
14-00406-01	14–27	22-02302-03	11–16, 29–54
14-00406-20	14–27	22-02319-10	11–18
14-00407-02	11–18	22-02319-11	11–18
14-00407-03	14–28	22-02319-12	18–33
14-00407-04	12–20	22-02319-13	18–33
14-00413-00	15–29	22-02324-01	9–14
22-00119-03	9–14	22-02324-09	31–58
22-00119-04	9–14	22-02378-00	9–14
22-01292-02	29–52	22-02392-00	30–56
22-01556-00	27–49	22-02393-01	30–56, 30–57
22-01556-01	31–59	22-02394-00	30–56
22-01556-02	31–59	22-02394-02	30–57
22-01556-04	31–59	22-02394-03	30–57
22-01556-06	31–58	22-02448-00	30–56
22-01566-01	30–57	22-04016-00	30–57
22-01602-02	7–11	22-04031-00	31–59
22-01602-03	7–11	22-04031-01	30–57
22-01613-06	25–47	22-04032-00	30–57, 31–59
22-01613-07	25–47	22-04214-02	18–33
22-01613-10	3–5	22-04280-00	11–18
22-01613-11	3–5	22-04281-00	18–33
		22-04282-01	30–56
		22-66651-10	9–14

22-66656-30	30-57	38-00597-00	17-31
24-66603-00	19-37	38-00626-00	22-42
34-00373-59	11-18	40-00701-00	16-30
34-00616-06	22-42	40-00702-00	15-29
34-00655-08	4-6, 18-33, 22-42, 29-54	40-00703-00	12-22
34-00655-10	8-13, 19-37, 29-54	40-00703-01	12-22, 15-29
34-00655-12	19-37	40-00707-00	12-22
34-00662-09	18-34	40-00707-01	12-22, 14-27, 15-29
34-00663-07	29-54	40-00709-00	14-27
34-00663-09	20-39, 29-54	40-00709-01	11-19
34-00663-11	19-37, 22-42, 23-45	40-00717-00	14-28
34-00667-11	8-13, 10-15	40-00718-00	12-22
34-00667-12	17-31	40-00719-00	14-28
34-00795-17	22-42	42	14-28
34-00928-01	8-13	42-00032-13	14-27
34-00928-02	3-5	42-00174-110	6-10
34-00928-07	5-9	42-00174-111	6-10
34-00928-09	5-9, 23-45, 28-51	42-00174-34	6-10
34-00928-20	3-5, 6-10, 7-11, 18-34, 20-39	42-00270-02	20-39
34-01142-01	8-13	42-00296-01	3-5, 4-6
34-01146-06	11-16	42-00327-00	3-5, 4-6
34-01152-10	11-16	42-00334-00	6-10
34-01167-01	20-39	42-00407-00	3-5
34-01178-22	29-52	42-00425-124	14-27
34-01181-01	17-31	42-00425-126	12-21
34-06053-00	5-9, 7-11, 10-15, 12-21, 13-25, 14-27, 17-31, 18-33, 20-39	42-00425-127 42-00425-132	12-21 12-21
34-06053-02	14-27, 17-31	42-00425-133	12-21
34-06053-03	8-13, 11-18, 18-33	42-00425-134	12-21
34-06053-05	8-13, 10-15, 11-18, 12-21, 14- 27, 20-39	42-00425-135 42-00425-136	12-21 14-28
34-06053-13	3-5, 4-6, 18-33, 29-54	42-00425-137	12-21
34-06053-15	14-27	42-00595-00	18-33
34-06053-19	3-5	42-00596-00	18-34
34-06107-00	20-39	42-00597-00	18-33
34-06136-01	10-15	42-00597-01	18-33
34-06139-00	20-39	42-00608-00	26-48
34-06139-01	20-39	42-00667-12	12-22
34-06139-04	20-39	42-00721-11	13-25
34-06142-00	24-46, 28-50	42-00721-12	13-25
34-06154-00	4-6	42-00721-15	13-25
34-06154-03	7-11, 18-33	42-00721-18	13-25
34-06165-08	22-42	42-00721-19	13-25
34-06169-00	20-39	42-00721-20	13-25
34-06185-01	3-5	42-00721-21	13-25
34-06212-12	3-5, 4-6	42-00721-22	13-25
34-06243-00	31-60	42-00726-00	12-21, 14-27
34-06295-00	12-21, 14-27	42-00805-00	14-27
34-06354-00	18-34	42-00805-01	12-21
34-06355-00	18-34	42-00805-02	11-18, 11-19
34-66622-05	3-5	42-00805-03	14-28
34-66629-05	26-48		

42-00805-04	12-20	58-04026-07	10-15
42-00805-05	11-18, 14-28	58-04026-103	11-18
42-66644-00	12-21	58-04026-32	8-13
44-00300-00	20-39	58-04026-84	13-25
44-00343-00	20-39	58-04026-88	14-27
44-00361-00	29-52	58-04026-89	14-27
44-00370-02	12-21, 14-27, 23-45	58-04026-90	13-25
44-00391-00	26-48	58-04026-91	13-25
44-00423-00	18-33	58-04026-92	13-25
46-00058-00	11-18, 11-19, 12-20, 12-21, 14-27, 14-28	58-04026-94	11-19
48-00413-00	22-42	58-04101-00	20-39
48-00456-00	13-25	58-04101-01	20-39
54-00640-20	17-31	58-04202-02	21-41
54-00648-20	22-42	58-04244-00	20-39
56-08645-00	16-30	58-04245-07	20-39
56-08792-00	15-29	58-04245-80	20-39
56-08812-00	23-45	58-04246-00	29-54
56-08822-00	15-29	58-04273-00	29-52
56-08835-00	12-22	58-04290-02	7-11
56-08836-00	16-30	58-04291-00	31-58
56-08837-00	16-30	58-04291-02	31-58
56-08839-00	12-22	58-04302-01	7-11
56-08840-00	12-22	58-04316-00	10-15, 11-18, 18-33, 21-40, 21-41, 24-46, 29-54, 31-58
56-08841-00	15-29		
56-08851-00	16-30	58-04321-34	11-16
56-08852-00	23-45	58-04366-00	20-39
56-08853-00	15-29	58-04376-05	3-5
56-08881-00	12-22	58-04378-01	4-6
56-08921-00	23-45	58-04389-00	20-39
56-08973-00	14-28	58-04539-05	21-40
56-08990-00	12-22	58-04539-10	21-41
56-08992-00	16-30	58-04539-11	21-41
56-08993-00	15-29	58-04539-15	21-41
56-09118-00	15-29	58-04539-16	21-41
56-09119-00	12-22	58-04539-17	21-41
56-09149-00	21-40	58-04610-00	18-33
56-09166-00	12-22	58-04770-00	22-42
58-00065-44	29-54	62-02723-00	32-62
58-00065-56	23-45	62-03957-04	20-39
58-00065-78	11-16	62-10356-00	3-5
58-00065-82	18-33	62-10911-00	8-13
58-00065-91	23-45	62-10914-00	26-48
58-00701-03	8-13	62-10930-00	3-5
58-00848-21	29-54	62-11274-01	28-50, 28-51
58-00848-37	29-54	62-11275-00	28-51
58-00849-02	18-33	62-11277-00	29-52
58-00849-03	18-33	62-11598-00	32-62
58-00849-15	18-33	62-11600-00	32-62
58-00967-00	8-13, 29-52	62-11601-00	32-62
58-00969-00	3-5, 21-40	62-66081-01	32-62

65-00201-00	14-27		49, 28-50, 29-54
66-U-1-5321-3	19-37	66U1-5381-1	23-45
66CH-1-1172-2	21-41	66U1-5562-12	7-11
66CH1-1002-33	32-62	66U1-5562-2	3-5, 4-6
66CH1-1172-2	3-5	66U1-5562-7	8-13
66CH1-1172-32	29-52	66U1-6651-19	29-54
66CH1-1172-52	29-54	66U1-6651-24	30-57
66SC0603AA0600	29-54	66U1-6811-12	20-39
66U-1-3882	21-41, 28-51	66U1-7352-3	10-15
66U-1-3882-3	21-41	66U1-7842-12	29-54
66U-1-5371-7	28-51	66U1-7842-6	29-54
66U1-1251-2	10-15	66U1-7842-7	29-54
66U1-1571-32	14-28	66U1-8292-1	31-59
66U1-2403	6-10, 20-39	66U1-9592-13	8-13
66U1-2403-1	20-39	66U1-9752	26-48
66U1-2552-185	22-42	68-11989-00	4-6
66U1-2583	9-14	68-12815-00	5-9
66U1-2593-4	6-10	68-12821-00	5-9
66U1-3803	29-52	68-12933-07	3-5
66U1-3803-17	11-16, 18-33	68-12940-05	3-5
66U1-3882	10-15, 11-18, 18-33, 20-39, 21-40, 24-46, 25-47, 28-50, 29-54, 31-58	68-13181-01	25-47
66U1-3882-3	18-33, 24-46	68-13983-04	5-9
66U1-3882-4	31-58	68-13984-00	5-9
66U1-5321-13	3-5	68-14046-02	6-10
66U1-5321-2	12-21, 14-28, 16-30, 18-34	68-14444-00	28-50
66U1-5321-3	5-9, 8-13, 13-25, 18-33, 22-42, 23-45	68-14456-01	10-15
66U1-5321-4	14-27	68-14482-00	24-46
66U1-5321-5	11-18	68-14505-00	18-33
66U1-5321-7	7-11, 8-13, 11-18, 29-54	68-14506-00	18-34
66U1-5321-8	8-13, 10-15, 11-18, 12-21, 14-27, 20-39, 23-45, 25-47, 27-49, 29-54	68-14550-00	18-34
66U1-5331-4	12-21, 14-28, 16-30	68-14701-00	28-51
66U1-5361	12-21, 14-27, 17-31	68-14796-00	26-48
66U1-5361-11	10-15	68-14815-00	3-5
66U1-5361-19	11-18	68-14903-00	3-5
66U1-5361-25	5-9, 10-15, 11-18, 13-25, 17-31, 18-33, 23-45	68-15270-00	8-13
66U1-5361-39	14-27	68-15962-00	23-45
66U1-5361-47	13-25	68-15980-01	28-50
66U1-5361-7	11-19	68-16063-00	5-9
66U1-5361-8	11-18	68-16074-00	12-21
66U1-5362-2	3-5	68-16074-01	14-28
66U1-5371	14-28, 16-30, 18-33	68-16089-00	23-45
66U1-5371-10	25-47	68-16210-00	5-9
66U1-5371-14	18-33	68-16214-00	10-15
66U1-5371-6	10-15, 12-21, 14-27, 18-33, 23-45	68-16222-00	15-29
66U1-5371-7	8-13, 11-18, 14-27, 25-47, 27-	68-16223-00	12-21
		68-16234-00	13-25
		68-16245-00	5-9
		68-16246-00	23-45
		68-16335-00	14-27
		68-16409-00	14-27
		68-16603-00	18-33

68-16607-00	14-28	76-00892-08	12-21
68-16607-01	12-21	76-00892-09	14-28
68-17026-00	11-18	76-00892-10	14-27
68-17071-00	5-9	76-00892-11	12-21
68-17073-00	5-9	76-00892-12	11-19
68-17082-00	14-28	76-00892-13	14-28
68-17083-00	19-37	76-00892-14	12-20
68-17087-00	13-25	76-00892-15	11-18, 14-28
68-17130-00	18-33	76-00917-00	11-16
68-17163-00	6-10	76-66615-00	3-5
68-17419-01	5-9	79-01697-06SV	4-6
68-17783-00	31-60	79-01879-00	28-51
69NT-35-2692-1	19-37	79-04023-20	11-18
69NT-35-3907	25-47	79-66626-00	3-5
69NT-35-8258	7-11	79-66647-00	3-5
69NT35-2692	6-10	79-66655-12	20-39
69NT35-2692-1	17-31, 18-33, 22-42	79-66669-02	26-48
69NT35-2692-4	27-49	81-04129-00	13-25
69NT35-3452	17-31	81-04131-00	23-45
69NT35-3452-2	17-31	86-04461-04	20-39
69NT35-3452-3	17-31	86-04877-00	17-31
69NT35-6272-3	8-13	86-04956-00	19-37
69NT35-6278	29-54	86-04959-00	11-18
69NT35-636-1	28-50	86-04981-00	14-27
69NT35-636-2	20-39	86-04981-01	14-27
69NT35-9073-1	29-54	99TS0665CK002600	15-29
69NT43-295	22-42	99TS0865CK002500	12-22
76-00760-00	28-51		
76-00892-00	11-18		
76-00892-01	14-28	A	
76-00892-02	12-20	AT-39JA-171	8-13, 27-49
76-00892-04	14-27	AU-11JR-241	11-19
76-00892-05	11-19	AU-27JR-131	20-39, 25-47
76-00892-06	11-18	AU-27JR-171	8-13, 11-16, 18-33, 27-49



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