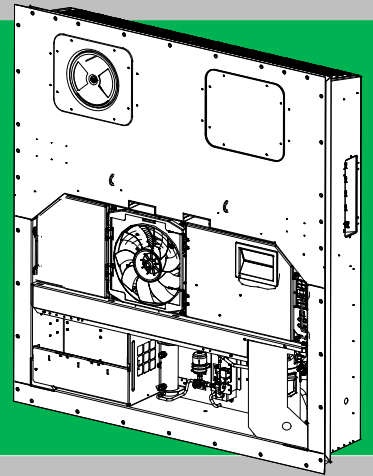
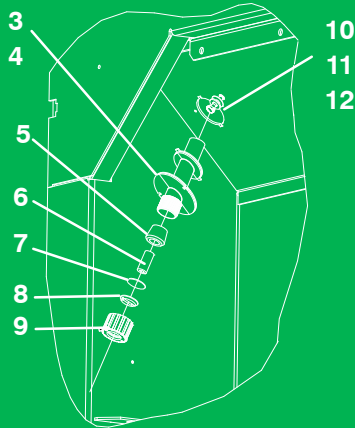
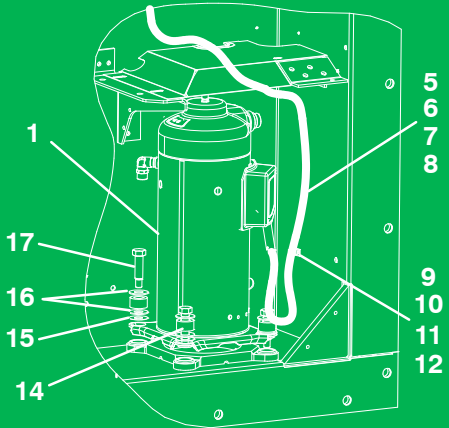


**Carrier** Container Refrigeration



**SERVICE PARTS LIST**  
for  
**69NT40-561-019**  
**PID NT-2047**  
**Evergreen Container**  
**Refrigeration Units**



**TRANSICOLD**

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**SERVICE PARTS LIST  
CONTAINER REFRIGERATION UNIT**

**MODEL  
69NT40-561-019  
PID NT-2047**

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# INTRODUCTION

## 1 INTRODUCTION

The Carrier Transicold model 69NT40–561–019 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–134a and compressor lubricating oil, and are ready for operation upon installation. Forklift pockets are provided for unit installation and removal.

The base unit operates on nominal 380/460 volt, 3-phase, 50/60 hertz (Hz) power. An optional autotransformer may be fitted to allow operation on nominal 190/230, 3-phase, 50/60 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. The controller will operate automatically to select cooling, holding or heating as required to maintain the desired set point temperature within very close limits. The unit may also be equipped with an electronic temperature recorder.

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.

## 2 CONFIGURATION IDENTIFICATION

Unit identification information is provided on a plate located to the left of the receiver or water-cooled condenser, on the back wall of the condenser section. The plate provides the unit model number, the unit serial number and the unit parts identification number (PID). The model number 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.

## 3 FEATURE DESCRIPTIONS

### 3.1 Control Box

Units are equipped with an aluminum box, and may be fitted with a lockable door.

### 3.2 Temperature Readout

The unit is fitted with suction and discharge temperature sensors. The sensor readings may be viewed on the controller display.

### 3.3 Pressure Readout

The unit is fitted with evaporator and discharge transducers. The transducer readings may be viewed on the controller display.

### 3.4 Compressor

The unit is fitted with a scroll compressor equipped with suction and discharge service connections.

### 3.5 Condenser Coil

The unit is fitted with a four-row condenser coil using 7mm tubing.

### 3.6 Evaporator

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

### 3.7 Evaporator Fan Operation

Units are equipped with three-phase evaporator fan motors. Opening of an evaporator fan internal protector will shut down the unit.

### 3.8 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.

## 4 OPTION DESCRIPTIONS

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

### 4.1 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 or in a secure location.

### 4.2 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.

### 4.3 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.

## INTRODUCTION – Continued

### 4.4 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).

### 4.5 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.

### 4.6 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 additional information.

### 4.7 Autotransformer

An autotransformer may be provided to allow operation on 190/230, 3-phase, 50/60 Hz power. The autotransformer raises the supply voltage to the nominal 380/460 volt power required by the base unit. The autotransformer may also be fitted with an individual circuit breaker for the 230 volt power.

If the unit is equipped with an autotransformer and communications module, the autotransformer will be fitted with a transformer bridge unit (TBU) to assist in communications.

### 4.8 Temperature Recorder

The units may be fitted with an electronic temperature recording device.

### 4.9 Handles

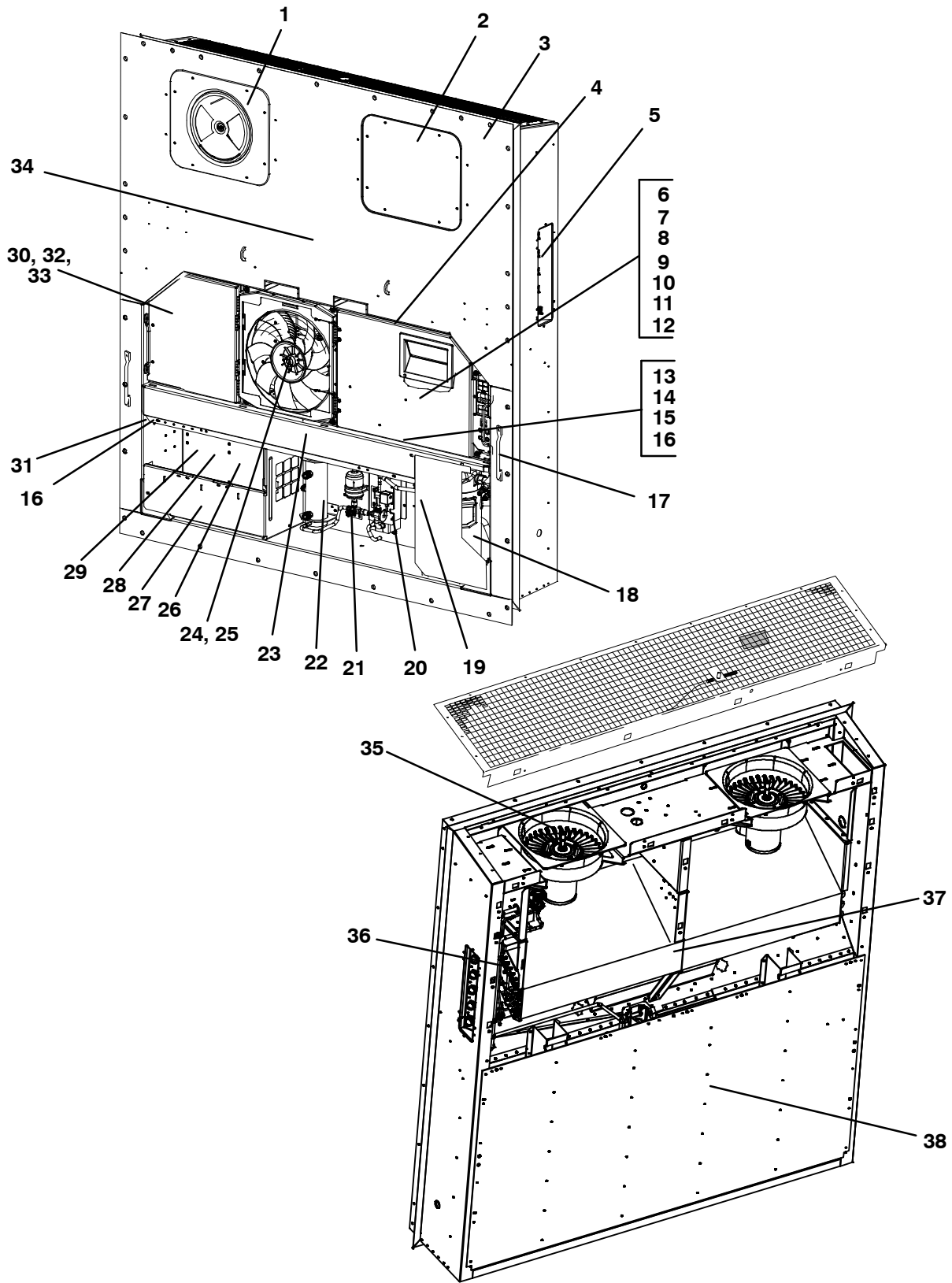
The unit may be equipped with handles to facilitate access to stacked containers. These fixed handles are located on either side of the unit.

### 4.10 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.



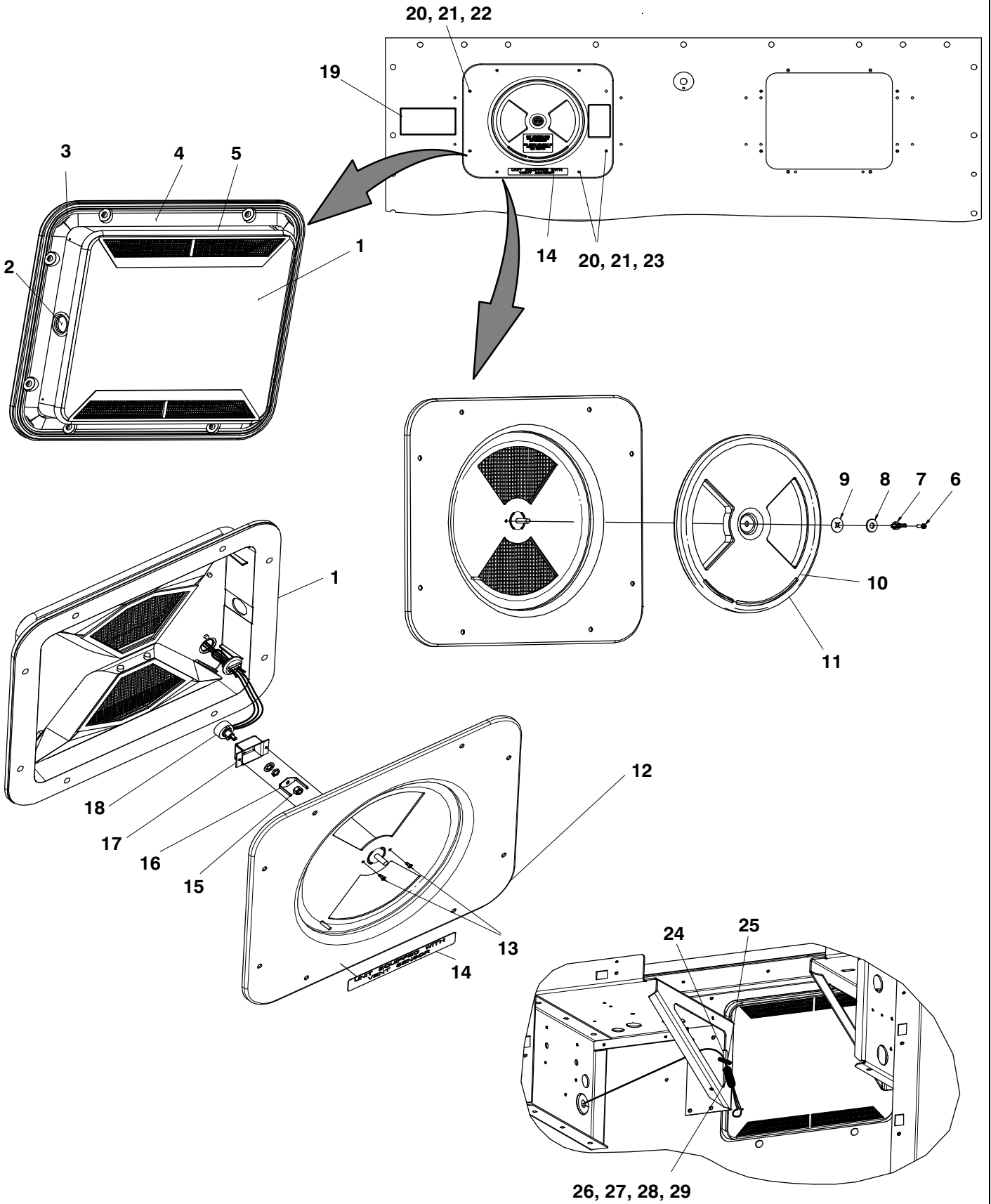
**1 REFRIGERATION UNIT ASSEMBLY**  
**1.1 REFRIGERATION UNIT - AREA LOCATOR**





<b>1.1 REFRIGERATION UNIT – AREA LOCATOR (Continued)</b>		
<b>Item</b>	<b>Section Number</b>	<b>Area Description</b>
1	Refer to Section 1.2	Upper Fresh Air – VPS Panel
2	Refer to Section 1.3	Upper Fresh Air – Blank Panel
3	Refer to Section 1.4	Bulkhead Penetration – Upper Air Exchange
4	Refer to Section 1.5	Rain Gutters
5	Refer to Section 1.6	USDA
6	Refer to Section 1.7	Control Box – Door
7	Refer to Section 1.8	Control Box – Shield
8	Refer to Section 1.9	Control Box – Wiring
9	Refer to Section 1.10	Control Box – RMU Receptacle, Switch Panel with Remote Monitoring
10	Refer to Section 1.11	Control Box – Remote Monitoring (RMU)
11	Refer to Section 1.12	Control Box – Controller Module Section and Software Cards
12	Refer to Section 1.13	Control Box Preparation
13	Refer to Section 1.14	Controller Kit – Facing View
14	Refer to Section 1.15	Controller Kit – Detailed View With and Without Shields
15	Refer to Section 1.16	Controller Kit – Rear View
16	Refer to Section 1.17	Interrogator Receptacle
17	Refer to Section 1.18	Handles
18	Refer to Section 1.19	Compressor, Mounting Components, and Power Cable
19	Refer to Section 1.20	Compressor Tubing
20	Refer to Section 1.21	Economizer
21	Refer to Section 1.22	Liquid Line Components
22	Refer to Section 1.23	Receiver
23	Refer to Section 1.24	Air-Cooled Condenser Coil and Covers
24	Refer to Section 1.25	Condenser Fan Motor
25	Refer to Section 1.26	Condenser Fan Grille Assembly
26	Refer to Section 1.27	Voltage Cables
27	Refer to Section 1.28	Cable Guards
28	Refer to Section 1.29	Autotransformer
29	Refer to Section 1.30	Cable Restraint Components
30	Refer to Section 1.31	Temperature Recorder
31	Refer to Section 1.32	Drain
32	Refer to Section 1.33	Lower Air Exchange – None
33	Refer to Section 1.34	Bulkhead Penetration – Lower Air Exchange
34	Refer to Section 1.35	Labels and Decals
35	Refer to Section 1.36	Evaporator Fan Assembly
36	Refer to Section 1.37	Evaporator Tubing and Coil
37	Refer to Section 1.38	Heaters and Sensors (Rear Panels Removed)
38	Refer to Section 1.39	Back Panel Assembly – Aluminum Bolted / 5+1 Heater
NS	Refer to Section 1.40	Harness – Low Voltage
NS	Refer to Section 1.41	Harness – High Voltage
NS	Refer to Section 2.1	DataLine/Data Reader

1.2 UPPER FRESH AIR – VPS Panel

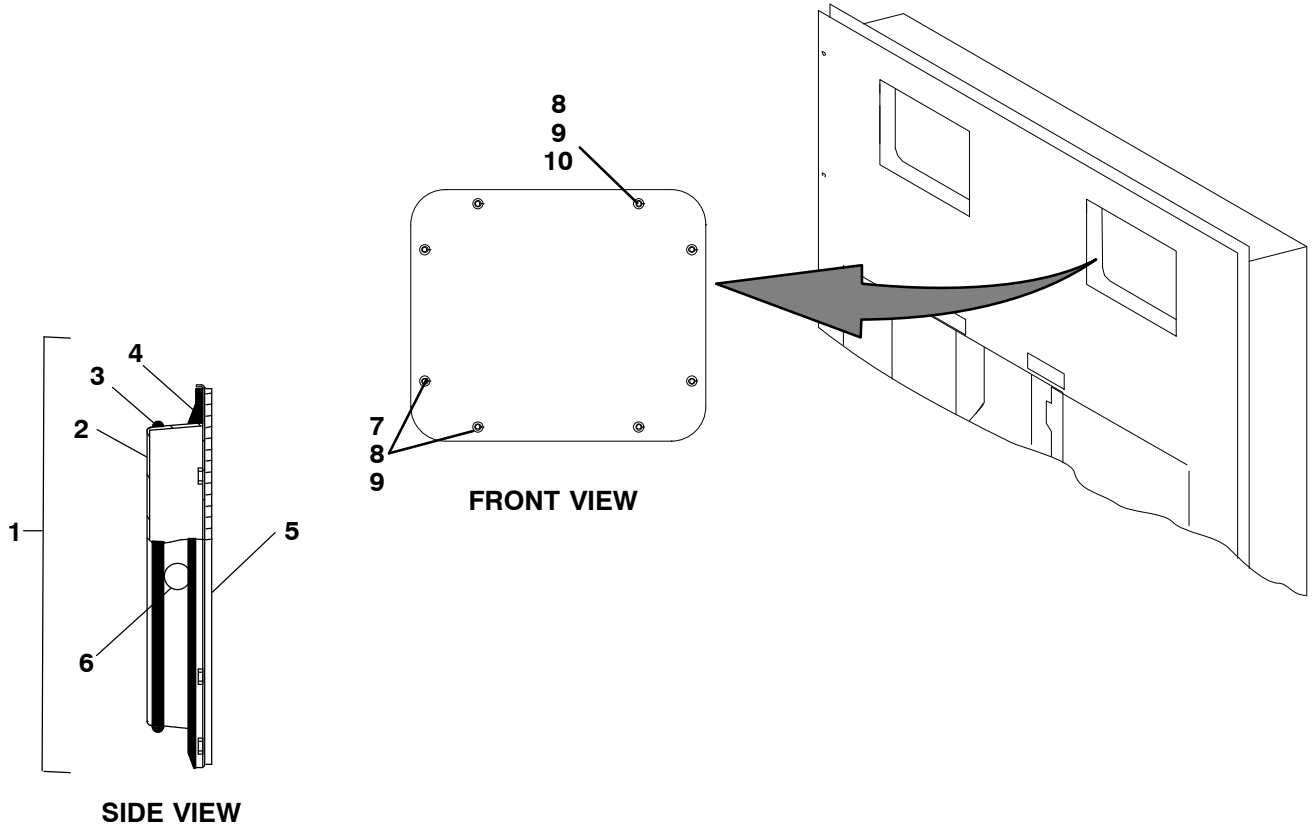


77-01157-43, 77-01114-18

**1.2 UPPER FRESH AIR – VPS Panel (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
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	1
7	66U1-5362-2	Nut, Wing, 5/16-18, SST	1
8	66U1-5321-13	Washer, Plain 5/16 W Type A, SST	1
9	34-06053-19	Washer, Mylar 1.00 OD X 0.312 ID	1
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	34-00928-02	Rivet, Blind 0.125 Inch Diameter 0.126-0.187	2
14	62-10930-00	Label VPS	1
15	NSS	Nut, Self Lock, 1/4-20	1
16	NSS	Plate	2
17	NSS	Bracket, Sensor	2
18	NSS	Sensor, Rotary Position	1
19	62-66723-00	Label Fresh Air	1
20	34-06053-13	Washer, Mylar, 1/4 ID X 0.80 OD	8
21	34-06212-12	Washer, Flat, 1/4, SST	8
22	34-00655-08	Screw, Hex Head, 1/4-20 X 1.00 Inch Long	6
23	34-06154-00	Screw, Hex Head, 1/4-20 X 1.00 Inch Long – TIR	2
24	66CH1-1172-2	Trim, Flexible 2.00 Inches Long	1
25	58-00969-00	Wire Tie 2.80 Inch Diameter, Double Loop	1
26	22-01613-10	Plug, 4-Pin	1
27	22-01613-13	Contact, Socket #16	3
28	22-01613-11	Lock, 4-Pin – Secondary	1
29	22-01660-08	Plug, 0.12 Inch Diameter X 0.58	1

1.3 UPPER FRESH AIR – Blank Panel

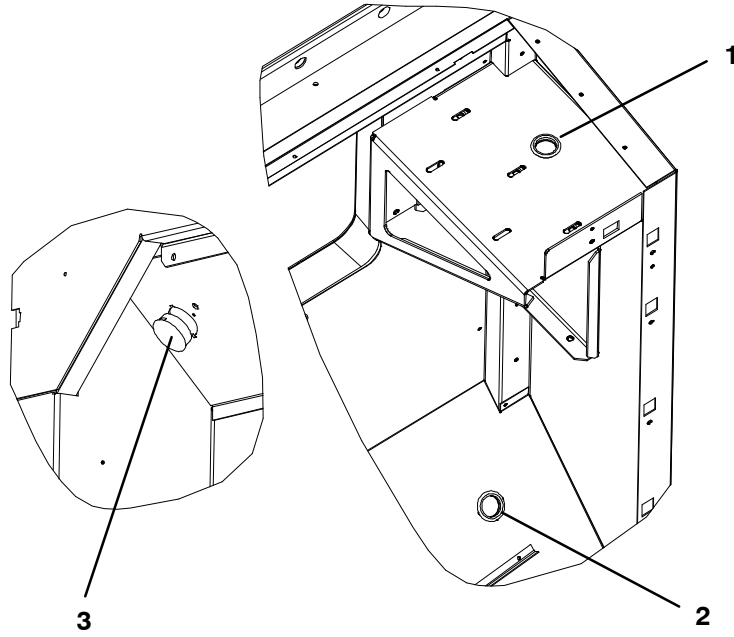


77-01157-43, 77-01114-18

**1.3 UPPER FRESH AIR – Blank Panel (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	79-01697-06SV	Panel Assembly, Access, Evaporator, White – Includes:	A/R
2	58-04378-01	Panel, Access	1
3	42-00327-00	Gasket, 0.26 X 0.50 Half-Round	1
4	42-00296-01	Gasket, Evaporator Access Panel	1
5	68-11989-00	Cover, Top, Evaporator Access Panel, White	A/R
6	66U1-5562-2	Plug Button	1
7	34-06154-00	Screw, Hex Head, 1/4-20 X 1.00 Inch Long – TIR	A/R
8	34-06053-13	Washer, Mylar	8
9	34-06212-12	Washer, Plain, 1/4	8
10	34-00655-08	Screw, Hex Head, 1/4-20 X 1.00 Inch Long	A/R

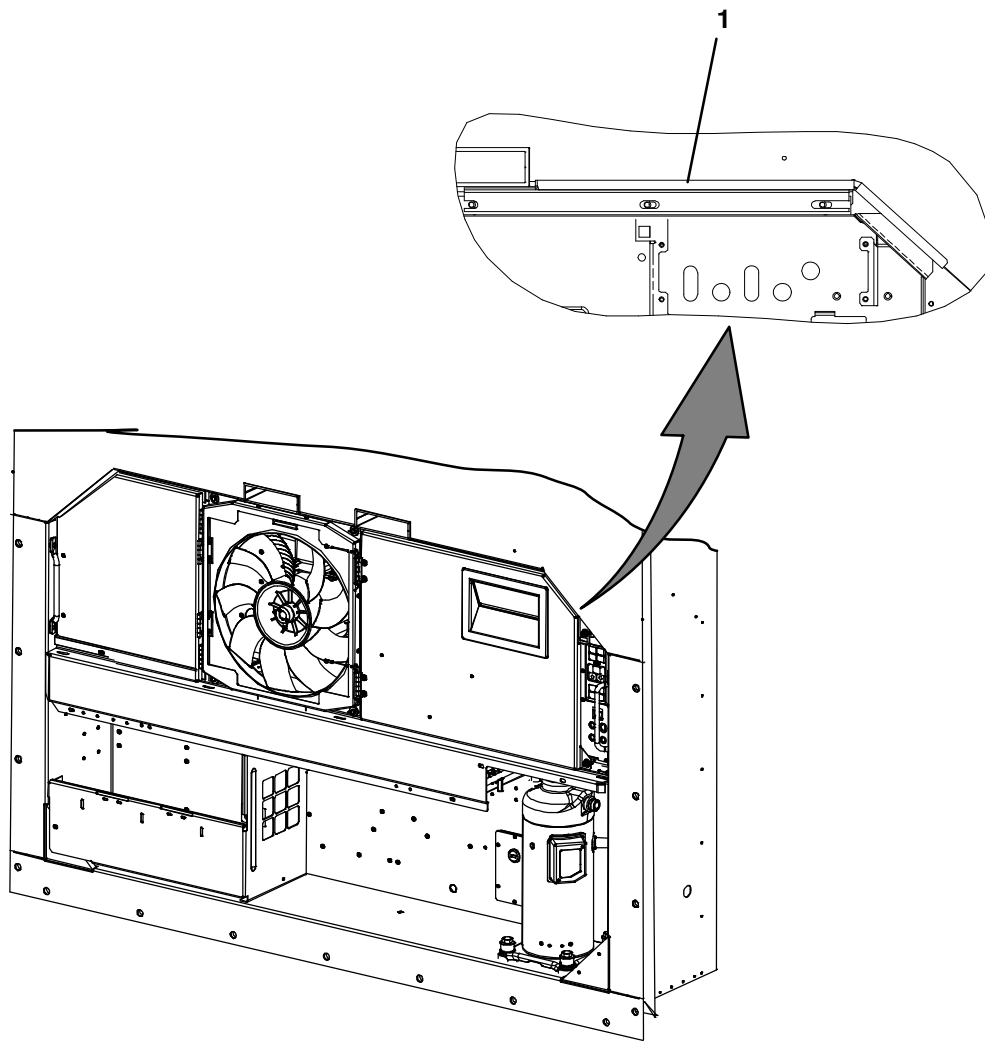
**1.4 BULKHEAD PENETRATION – UPPER AIR EXCHANGE**



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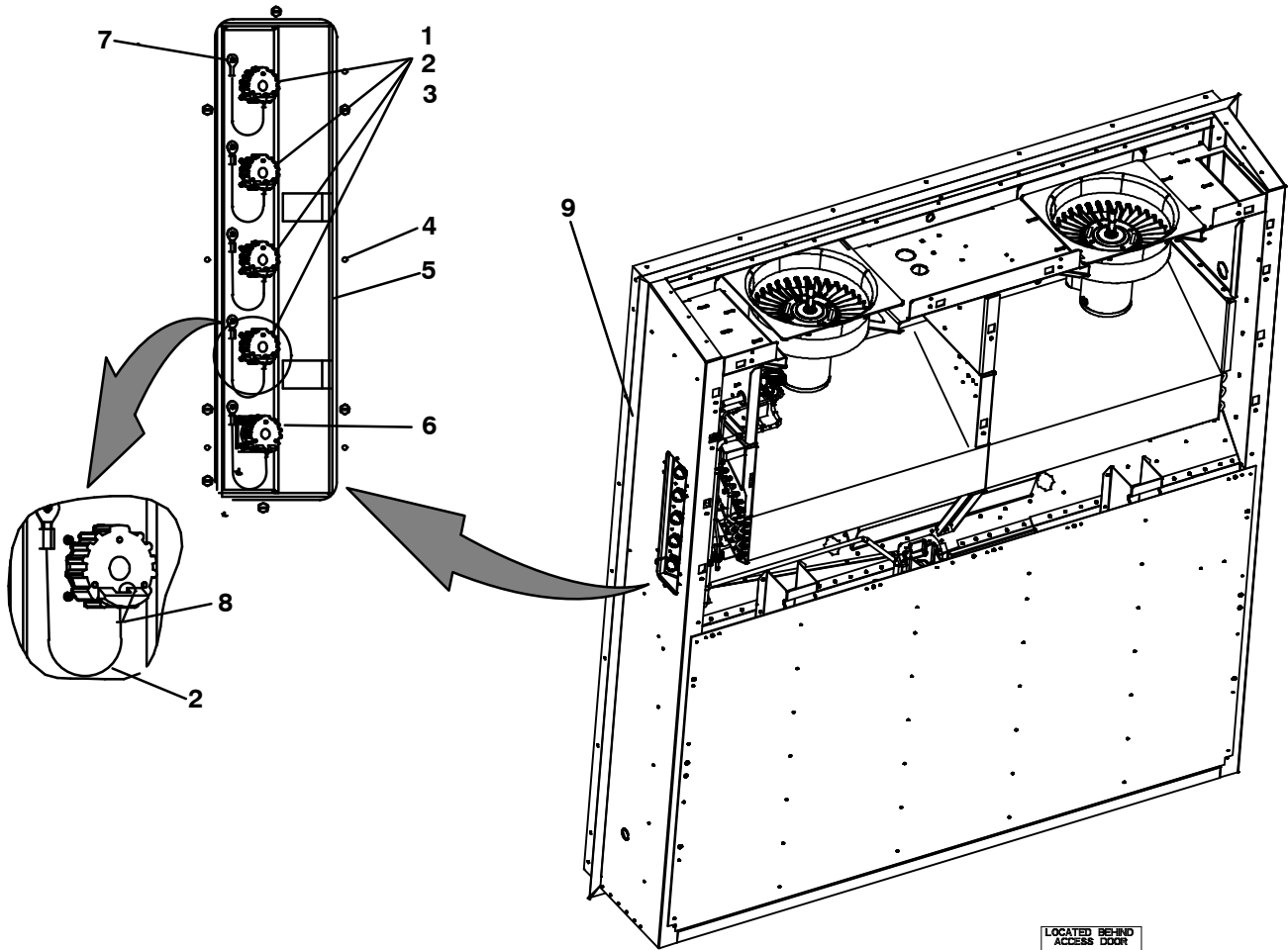
Item	Part Number	Description	Qty
1	66U1-5562-12	Plug, Button 1.25 Dia Hole	1
2	66U1-5562-2	Plug, Button 1.25 Dia Hole	1
3	58-00616-00	Plug, Hole 2.00 Dia X .12 Pnl	1

**1.5 RAIN GUTTER**



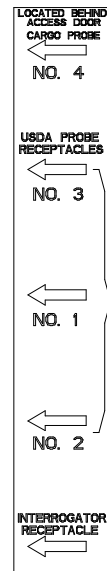
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Item	Part Number	Description	Qty
1	86-66720-00	Gutter, Rain	1



**USDA COLD TREATMENT CERTIFIED**

10

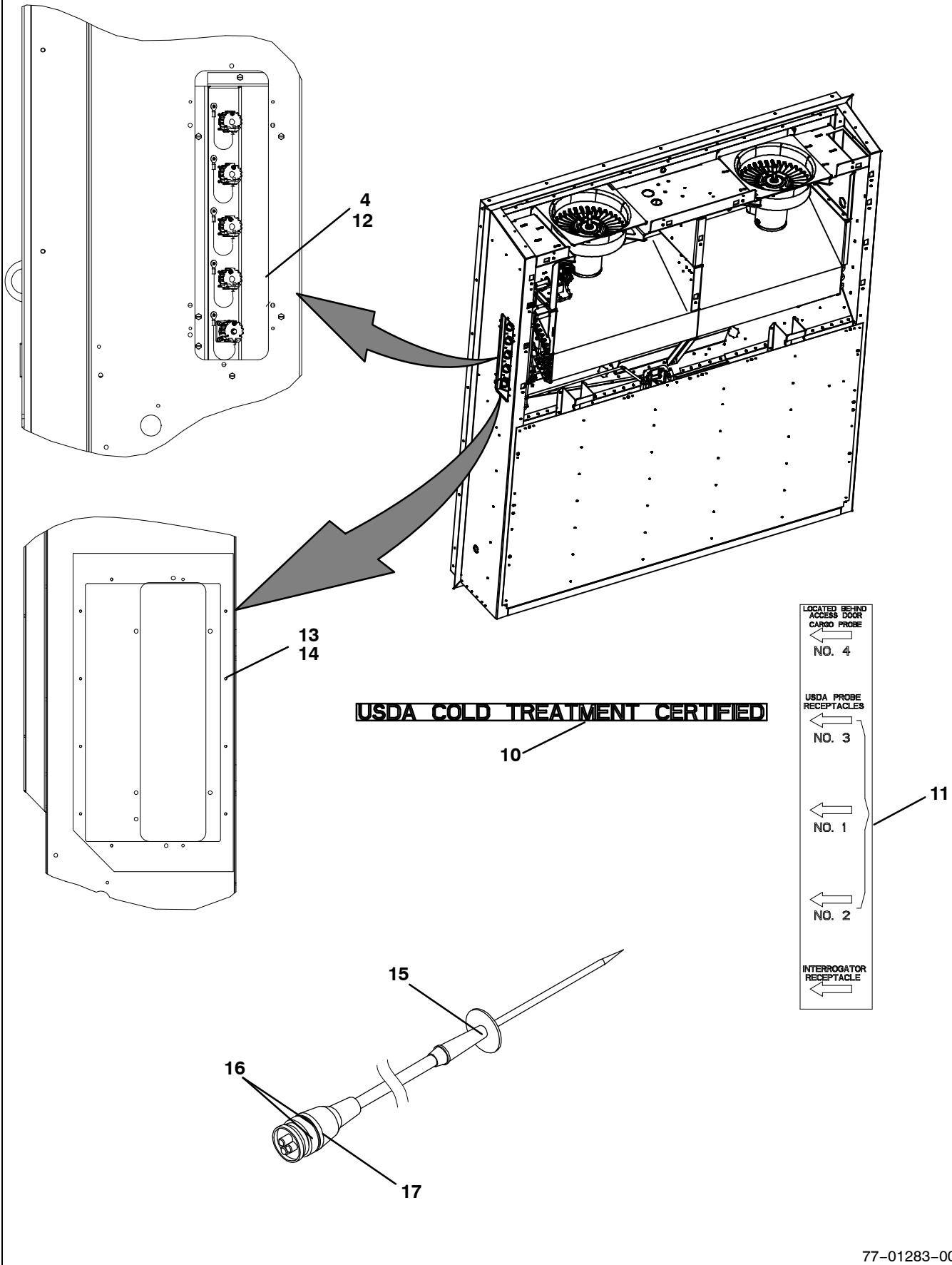


11



<b>1.6 USDA (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	Receptacle (PR1, PR2, PR3, Cargo Probe 4) (3-Pin) (Refer to Section 1.40)		
2	69NT35-636-1	Tether Assembly	5
3	22-01660-02	Cap, Dust, (3-Pin Receptacle)	4
4	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500 Slotted	7
5	68-14444-00	Panel Assembly, 0.063 Thick Aluminum	1
6	22-01660-05	Cap, Dust (5-Pin Receptacle)	1
7	34-06142-00	Rivet, 0.110 Inch Diameter, 0.126-0.250	25
8	22-02205-00	Connector Splice, Non-Insulated	5
9	68-15343-00	Channel Assembly	1
10	62-11275-00	Label, USDA Cold Treatment Certified	1
11	62-11274-01	Label, USDA, 5+1 Heater	1
NS	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	4

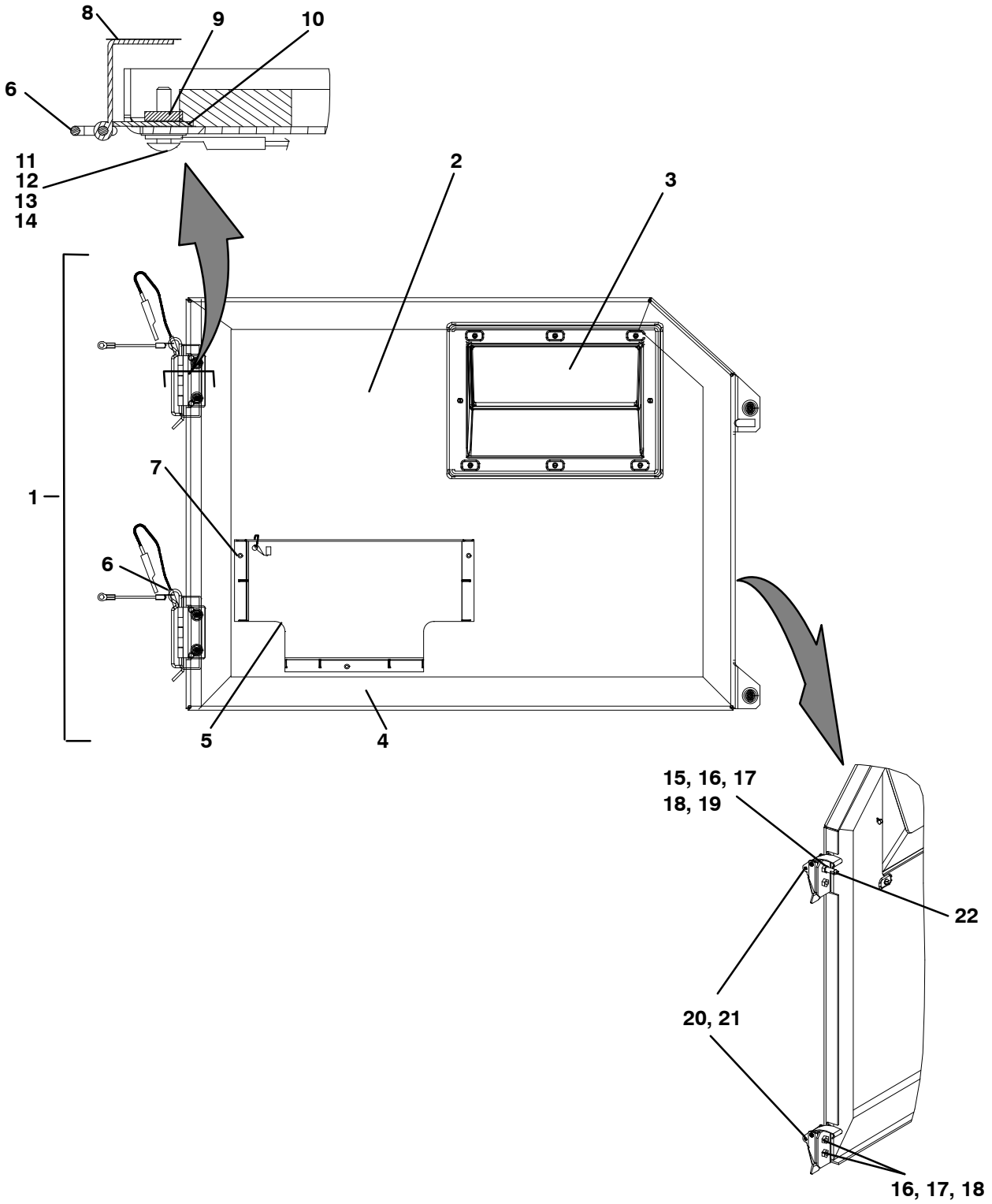
1.6 USDA (Continued)



77-01283-00

<b>1.6 USDA (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
<b>FIELD INSTALLED KITS (USDA PROVISIONS AND 5+1 HEATER ARRANGEMENT)</b>			
-	76-00676-00	Field-installed Kits for units provisioned for side-mounted USDA – Includes:	-
4	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500 Slotted	7
10	62-11275-00	Label, USDA Cold Treatment Certified	1
11	62-11274-01	Label, USDA, 5+1 Heater	1
12	79-01879-00	Panel Assembly	1
13	34-00928-09	Rivet, Blind, 0.156 Inch Diameter	10
14	68-14701-00	Plate	1
NS	22-01613-14	Contact Pin #16, Deutsch	13
NS	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	4
<b>USDA PROBE KITS</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
15	12-50089-00	Sensor Assembly, 600 Inches Long (15M) (USDA Probe) – Includes:	A/R
16	22-50127-00	Plug, Socket (PR1, PR2, PR3, Cargo Probe 4)	1
17	22-01613-15	Contact, Socket, #16	A/R

1.7 CONTROL BOX - DOOR

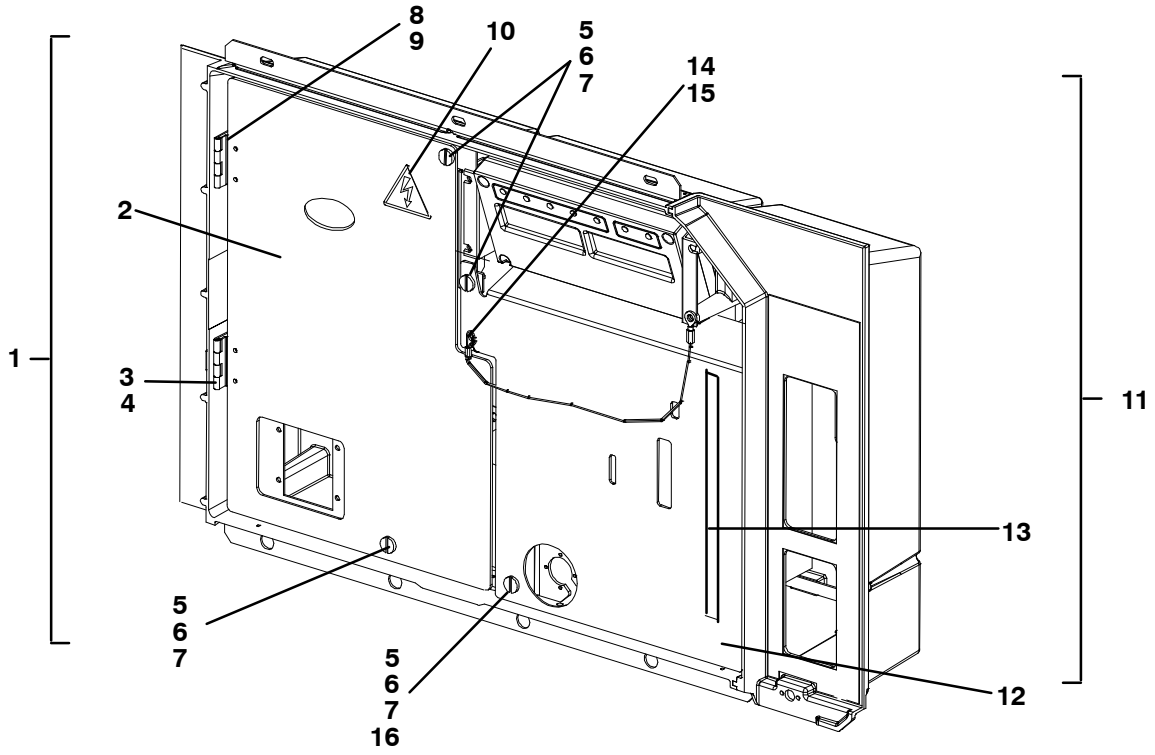


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**1.7 CONTROL BOX – DOOR (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	79-66655-04	Door Assembly, Blue, With Latches – Includes:	
2	86-66688-01	Door, Control Box, Latch	1
3	58-04366-00	Window	1
4	42-00270-02	Gasket, Control Box Door	1
5	58-04389-00	Pocket	1
6	44-00300-00	Hinge Assembly with Tethered Pin	2
7	34-06107-00	Rivet, Blind, 0.125 Inch Diameter, 0.188-0.250	3
8	58-04101-00	Protector, 1.00 X 3.62	2
9	34-01167-01	Nut, Retainer 10-24 X 1.75	2
10	58-04101-00	Protector 1.00 X 2.63	2
11	66U1-2403-1	Screw, 10-24 X 0.750 Slotted	4
12	34-00663-09	Washer, Lock 10 Spring	4
13	66U1-5321-8	Washer, Plain 10 Type A	4
14	34-06053-05	Washer, 0.205 ID X 0.600 OD	4
15	66U1-6651-22	Screw, Machine, Pan Head 8-32 X 3/4	1
16	34-00663-08	Washer, Lock	4
17	66U1-5321-2	Washer, Plain	4
18	66U1-6651-2	Screw, Machine, Pan Head 8-32 X 1/2	3
19	34-66621-04	Washer, Lock	1
20	58-04026-74	Protector, Latch	2
21	44-66605-00	Latch	2
22	48-66611-00	Pin, Guide	1

1.8 CONTROL BOX - SHIELD



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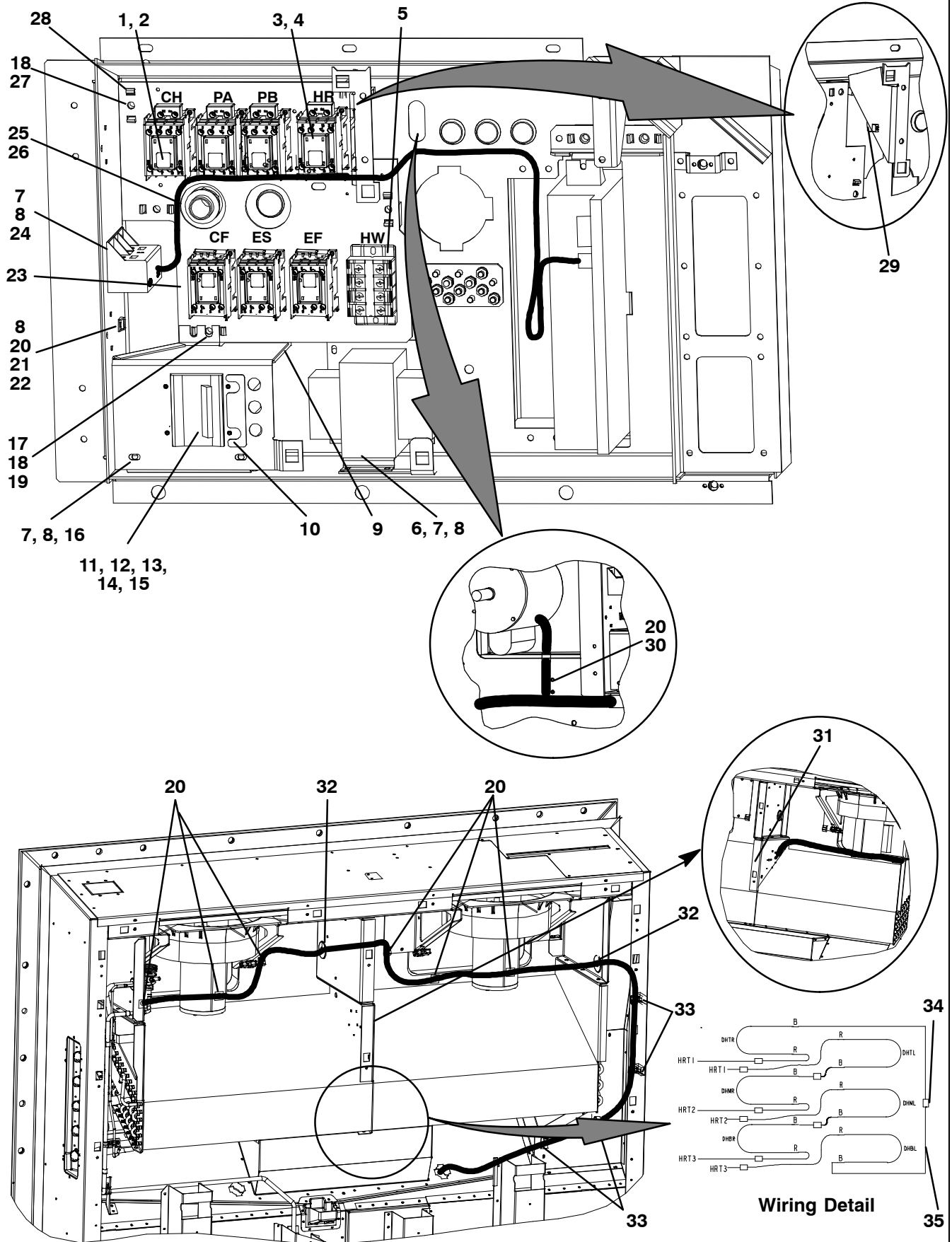
**1.8 CONTROL BOX – SHIELD (Continued)****HIGH VOLTAGE SHIELD**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	69NT43-125-1	Shield, High Voltage – Includes:	
2	NSS	Panel, High Voltage	1
3	44-00343-00	Hinge	2
4	34-00928-02	Rivet, Blind, 0.125 Inch Diameter, 0.126-0.187	4
5	34-06139-01	Stud, Retaining, 1/4 Inch	2
6	34-06139-00	Retainer, Stud, 1/4 Inch	2
7	34-06139-04	Receptacle, Retaining, 1/4 Inch	2
8	AU27JR131	Washer, Lock	2
9	66U1-2403	Screw, 10-24 X 0.50 Inch	4
10	62-03957-04	Decal, Warning High Voltage	1

**LOW VOLTAGE SHIELD**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
11	69NT43-124-4SV	Shield, Low Voltage – Includes:	
12	NSS	Panel, Low Voltage	1
13	34-06152-00	Fastener, Hook and Lock	1
14	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	2
15	69NT35-636-2	Tether Assembly, 16 Inches Long	1
5	34-06139-01	Stud 1/4, Retaining	4
6	34-06139-00	Retainer 1/4 Inch, Stud	4
7	34-06139-04	Receptacle, 1/4 Inch, Retaining	2
16	69NT35-9952	Angle	1

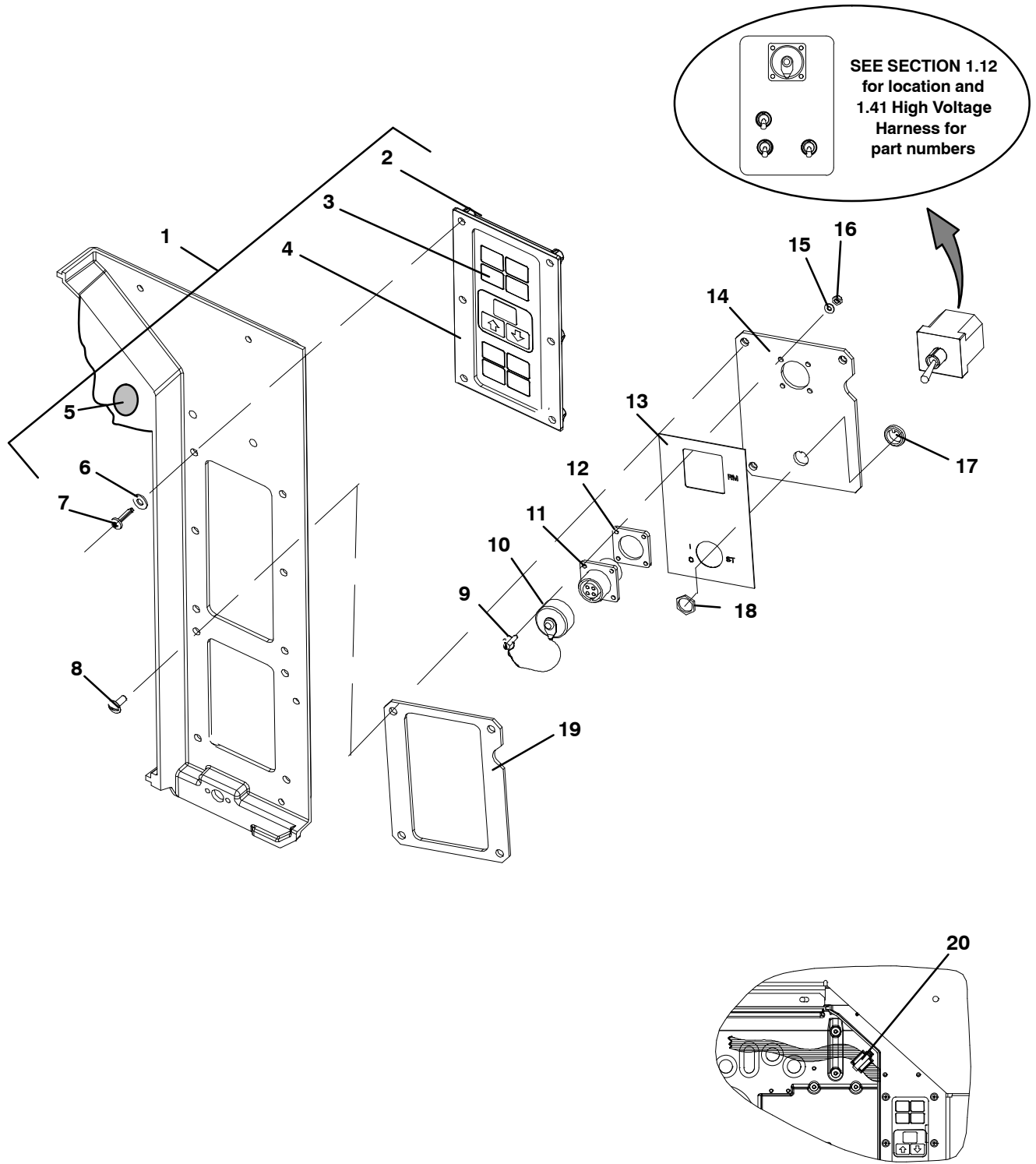
**1.9 CONTROL BOX - WIRING**





<b>1.9 CONTROL BOX – WIRING (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	62-11277-00	Label, Contactor Cover	1
2	10-00431-00	Contactactor 12 Amp	4
3	10-00431-01	Contactactor 30 Amp	3
4	10-00431-08	Cover, Contactactor	2
5	22-66676-00	Terminal Block	1
6	10-00332-21SV	Transformer Base Unit	1
7	66U1-5321-8	Washer, Plain 10, Type A	10
8	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500, Slotted	11
9	66CH1-1172-52	Trim, Flexible, 4.00 Inches Long	2
10	69NT35-9073-1	Label, CB1, 0.81 X 3.19	1
11	66U1-7842-12	Circuit Breaker, 3 Pole, 600 Volt	1
12	66U1-6651-19	Screw, Machine, Pinhead, #6-32 X 0.437 Slotted	4
13	34-00663-07	Washer, Lock #6 Spring	4
14	66U1-7842-6	Nut, Hex, 10-32, Circuit Breaker	6
15	66U1-7842-7	Washer, Flat, #10-32	12
16	69NT35-6278	Bracket, 0.080 Thick Aluminum, Plated	1
17	34-00655-10	Screw, Cap, Hex Head, 1/4-20 X 1.25	1
18	66U1-5321-7	Washer, Plain, 1/4 W, Type A	5
19	34-06053-13	Washer, Retaining, 0.19 ID X 0.80 OD (0.250)	1
20	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	52
21	34-00663-09	Washer, Lock, #10, Spring	1
22	58-04246-00	Ty-Rap Base, #10, Mounting Tab	1
23	68-14891-04	Panel 0.125 Thk Alum	1
24	10-00439-01	Transformer, Current Sensor	1
25	66U1-1251-2	O-Ring, 3/4, Hub Sealing	1
26	66U1-7352-3	Connector, Straight, Watertight	1
27	34-00655-08	Screw, Cap, Hex Head, 1/4-20 X 1.00	4
28	58-00967-00	Spacer, Locking (Subpanel)	5
29	58-04316-00	Base, Mounting, 0.250 Inch Diameter Mounting Hole	4
30	58-00848-23	Tube, Slit, 1/2 ID X 25 Feet Long	1
31	34-01178-22	Screw, Hex Head, #8-32 X 1/2 Inch Long, SST	1
32	58-04273-00	Grommet Split, 0.69 X 1.88 X 0.12	2
33	44-00361-00	Clip, Retaining, 0.88-1.00, Wire Mounting	7
34	66U1-3803	Tube, Heat Shrink, 0.25 X 2.12, Black	10
35	22-01292-02	Butt Splice, 16-14 Gage, Non-Insulated	10
NS	58-04315-00	Base, Mounting, 0.250 Inch Diameter Mounting Hole	3

1.10 CONTROL BOX – RMU RECEPTACLE, SWITCH PANEL, WITH REMOTE MONITORING

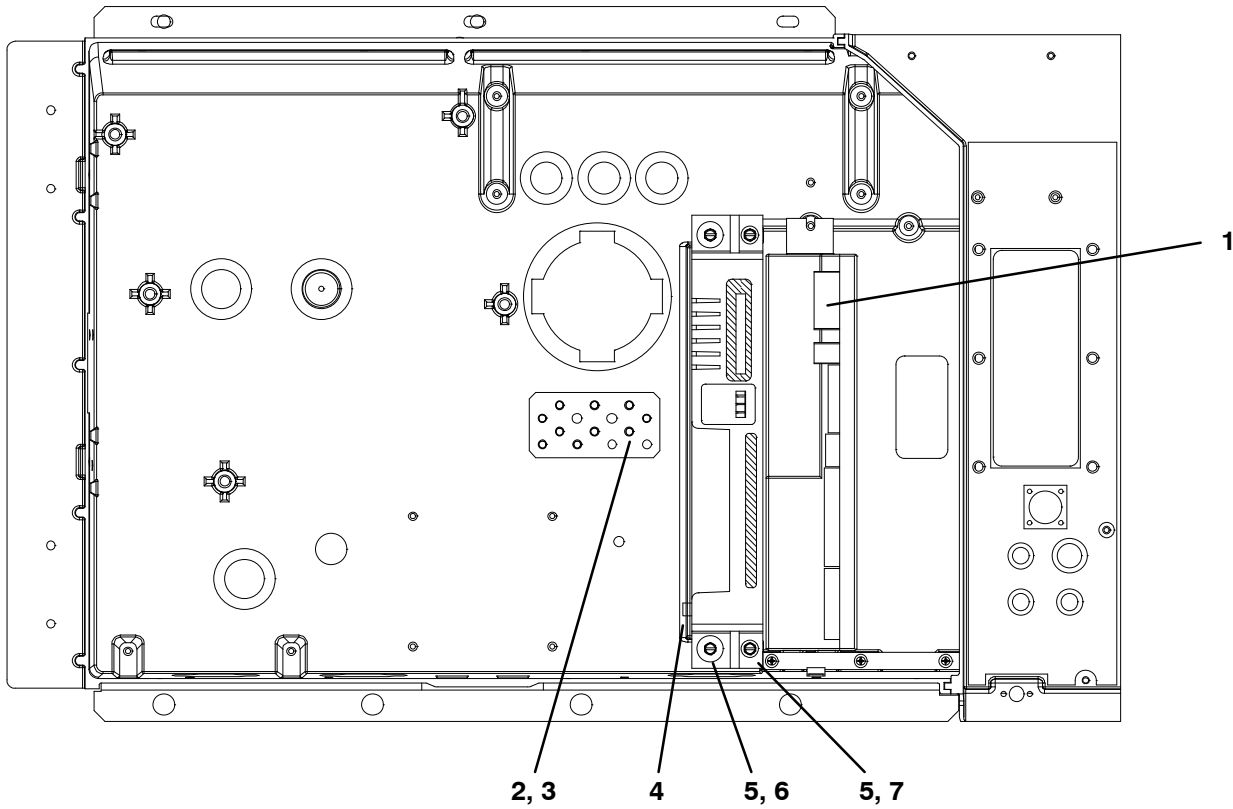


77-01150-00

**1.10 CONTROL BOX – RMU RECEPTACLE, SWITCH PANEL, WITH REMOTE MONITORING (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	79-66669-00	Key Pad Assembly – Includes:	1
2	NSS	Plate, Backup Keypad, Composite Box	1
3	NSS	Key Pad, Core Micro	1
4	NSS	Gasket Keypad, 0.125 Thick	1
5	NSS	Dot, Indicator (Green) – See NOTE	1
6	34-06212-10	Washer, Plain #10 Type A	6
7	34-66630-00	Screw, Pinhead #10-9 X 0.75 Long	6
8	34-66629-05	Screw, Machined Thread #10-24 X 0.750 Slotted	4
9	34-00848-10	Screw, Machined Roundhead #4-40 X 0.625	4
10	22-02341-01	Cap and Tether Receptacle Assembly	1
11	22-01604-00	Receptacle, 4 Connections	1
12	MS510074	Gasket	1
13	62-10914-03	Switch Label, ST, RM	1
14	68-14796-03	Plate, Switch ST, Remote Monitoring	1
15	66U1-5321-6	Washer, Plain 0.125 ID Type A	4
16	34-00667-05	Nut, Self Lock 4-40	4
17	66U1-9752	Seal 0.427/0.432, Bushing	2
18	10-01129-20	Nut, Hex 15/32-32 Un-2B	1
19	42-00608-00	Gasket Switch Plate	1
20	44-00391-00	Clamp	1

**1.11 CONTROL BOX – REMOTE MONITORING UNIT (RMU)**

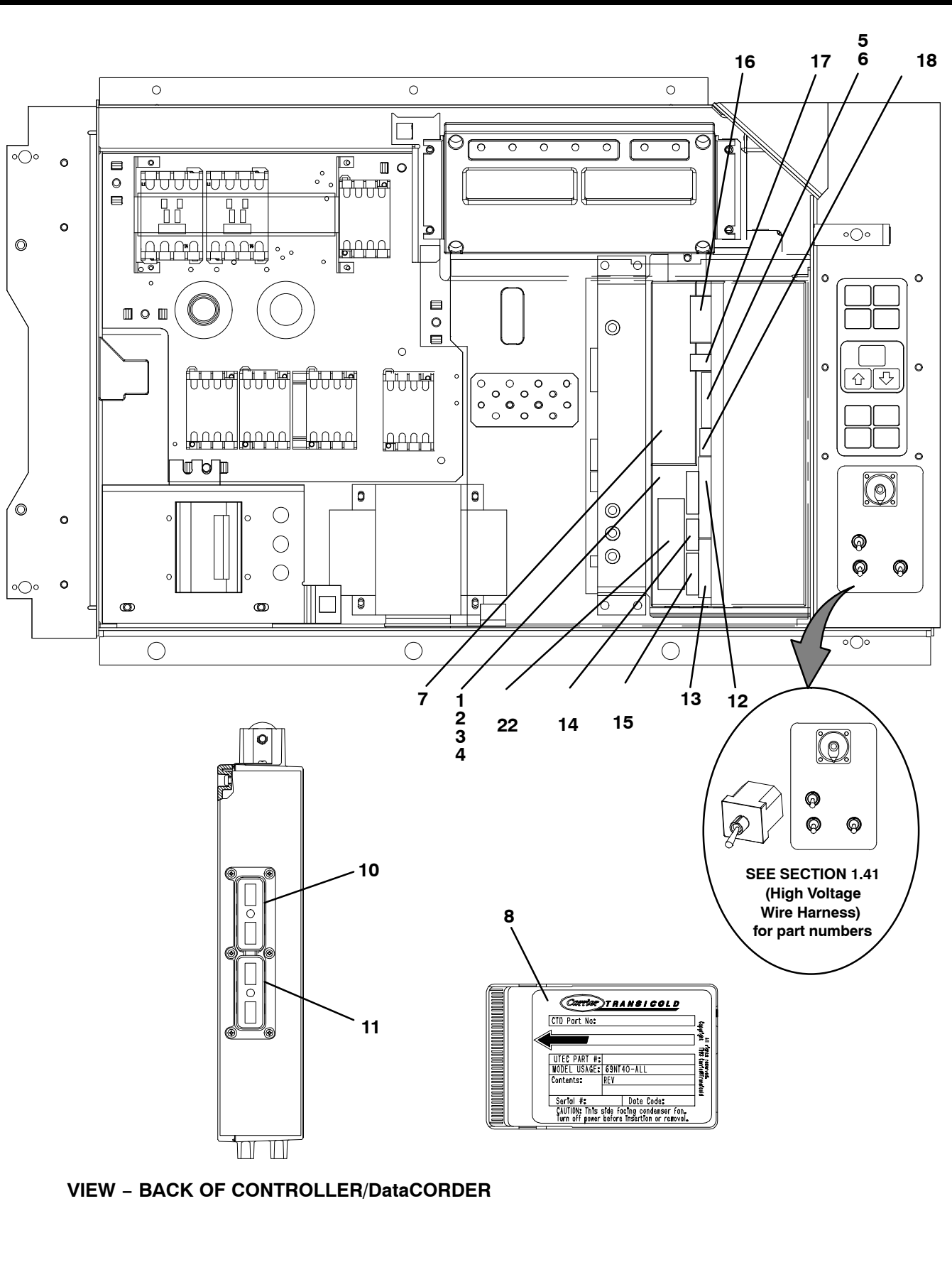


77-00888-01

**1.11 CONTROL BOX – REMOTE MONITORING UNIT (RMU) (Continued)**

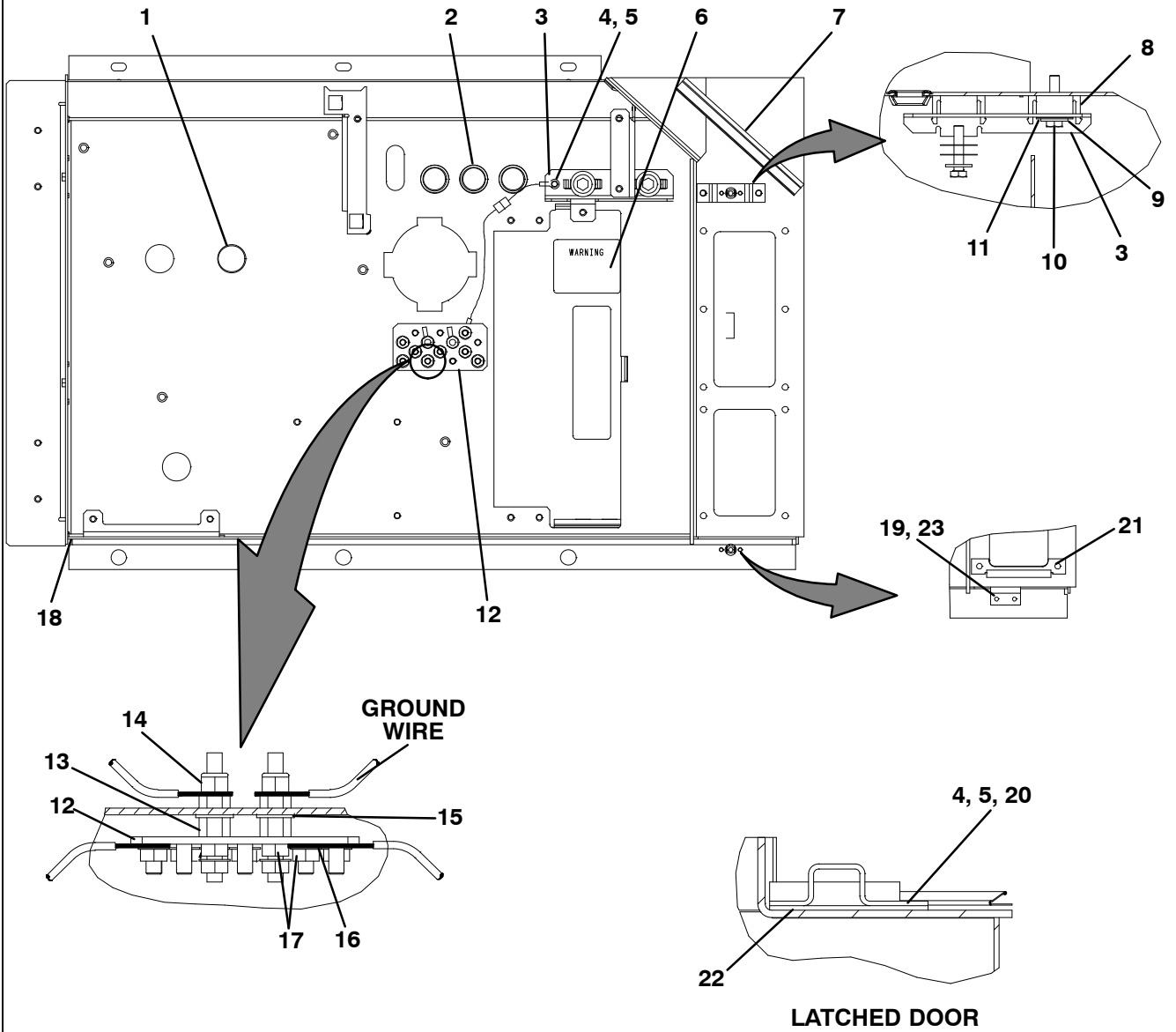
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	22-01713-03	Harness	1
2	AT39JA171	Nut, Hex	2
3	AU27JR171	Washer, Lock 1/4	2
4	22-01556-00	Connector	1
5	66U1-5371-7	Screw, Mach Hex Head 10-24 X 0.500	4
6	69NT35-2692-4	Washer, Fender	2
7	66U1-5321-8	Washer, Plain 10 Type A	2

**1.12 CONTROL BOX – CONTROLLER MODULE SECTION AND SOFTWARE CARDS**



<b>1.12 CONTROL BOX – CONTROLLER MODULE SECTION AND SOFTWARE CARDS (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	12-55009	Module, Controller/DataCORDER – Includes:	1
2	66U1-5371-7	Screw, Hex Head, #10-24 X 1/2 Inches Long, SST	1
3	69NT35-2692	Washer, Fender, 0.063 Thick, SST	1
4	58-01184-00	Retainer, Screw, 0.141 ID	1
5	22-02336-08	Fuse, 7.5 Amp (F3A and F3B)	3
6	22-02336-02	Fuse, 5 Amp (F1 and F2)	1
7	62-02719-00	Label, Controller/DataCORDER Port	1
8	12-00594	<b>Controller Operation Software Card (Latest version will be supplied)</b>	1
9	12-00615	<b>DataCORDER Operation Software Card (Latest version will be supplied)</b>	1
10	Connector (EC A-K) <b>(Refer to Section 1.40)</b>		
11	Connector (EC L-Y) <b>(Refer to Section 1.40)</b>		
12	Connector (KA) – 14-Pin <b>(Refer to Section 1.41)</b>		
13	Connector (KB) – 10-Pin <b>(Refer to Section 1.41)</b>		
14	Connector (KD) – 4-Pin <b>(Refer to Section 1.41)</b>		
15	Connector (KE) – 5-Pin <b>(Refer to Section 1.40)</b>		
16	Connector (MA) – 12-Pin <b>(Refer to Section 1.41)</b>		
17	Connector (MC) – 8-Pin <b>(Refer to Section 1.9)</b>		
18	Connector (KH) – 6-Pin <b>(Refer to Section 1.40)</b>		
NS	09-00375-00	Battery, Real Time Clock, (Within the Controller)	1
19	10-01129-11	Switch, toggle ST	2
21	10-01129-05	Switch, Toggle CFS	1
22	10-01129-12	Switch, (Start/Stop)Toggle ON/OFF	1
<b>RECHARGEABLE BATTERY OPTION</b>			
23	30-00407-02SV	Rechargeable Battery Pack with Connector-Controller/DataCORDER Module	A/R
<b>SECURE RECHARGEABLE BATTERY OPTION</b>			
NOTE	76-50149-00	Rechargeable Battery Pack with Connector-Controller/DataCORDER Module	A/R
<b>NOTE</b>			
Refer to technical manual for battery location.			

# 1.13 CONTROL BOX PREPARATION



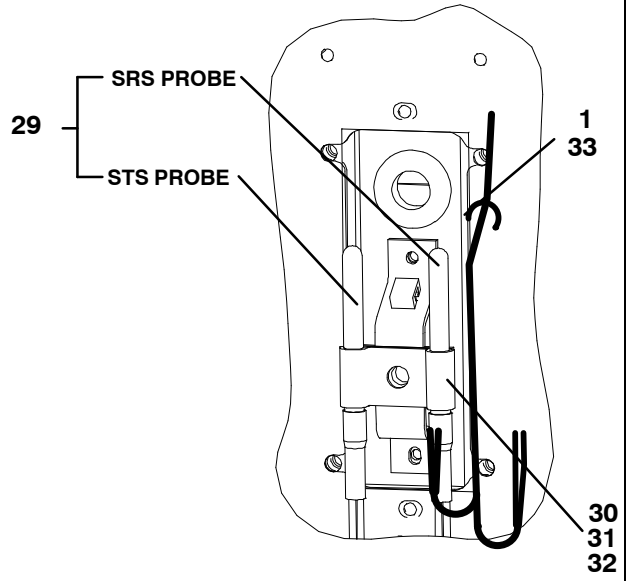
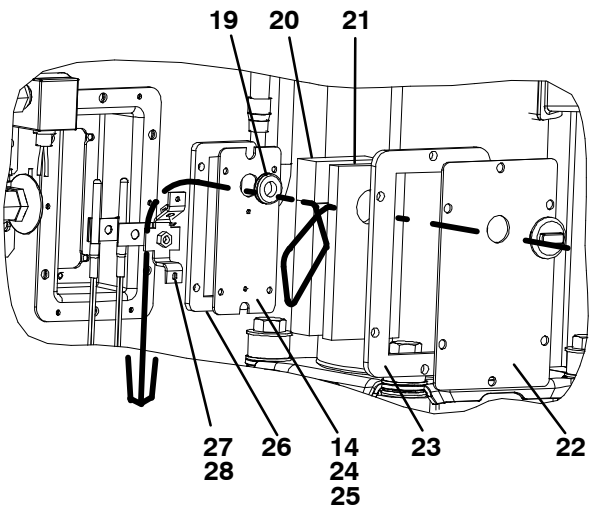
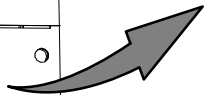
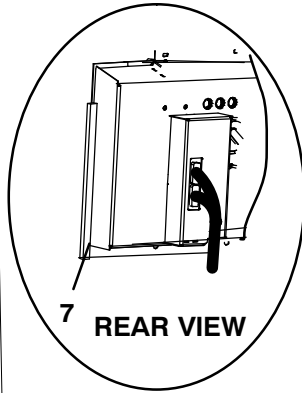
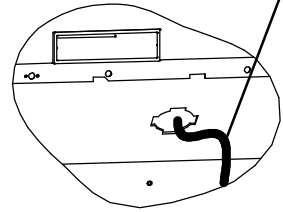
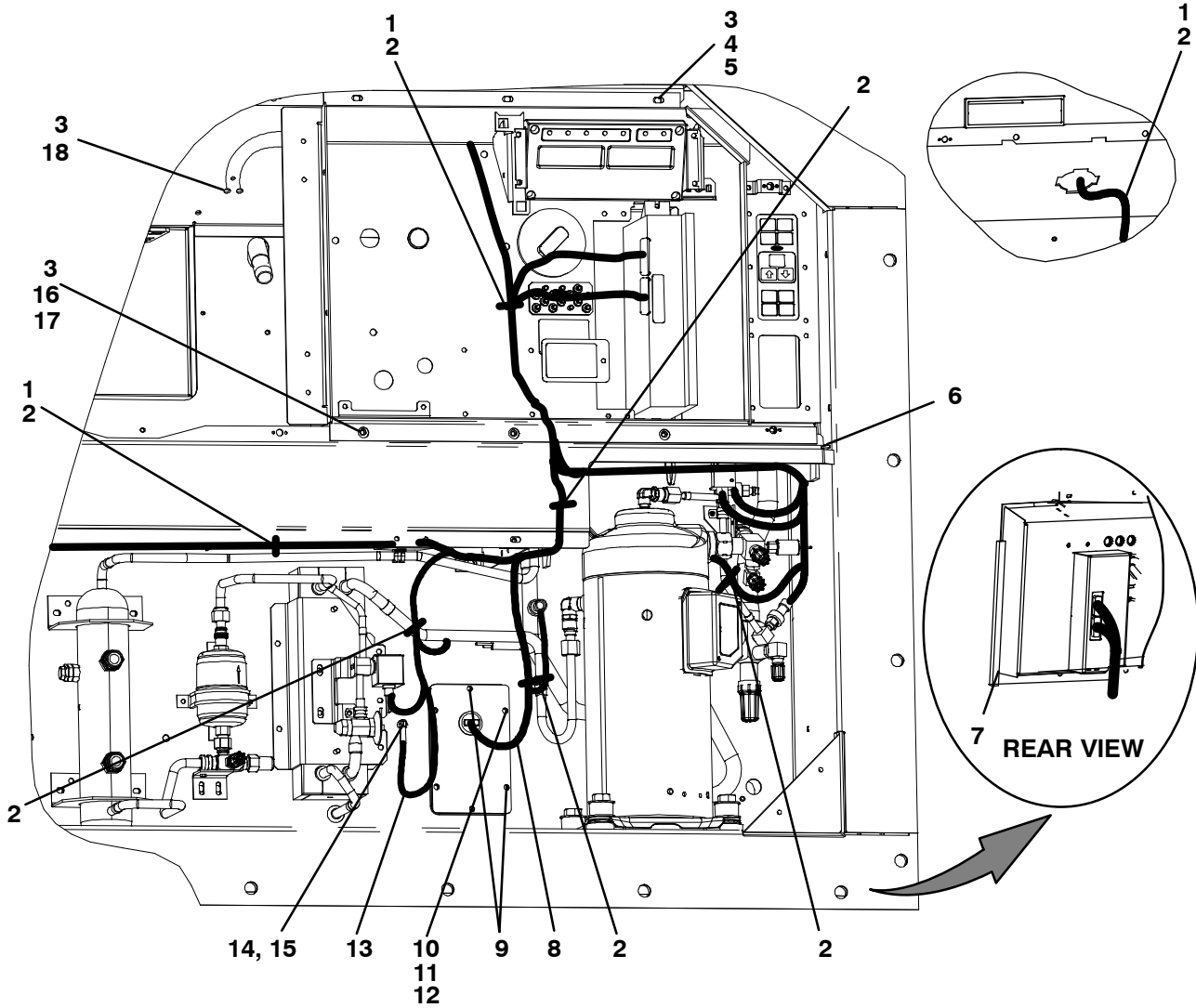
77-66622-12



**1.13 CONTROL BOX PREPARATION (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	66U1-5562-7	Plug Button, 1.125 Inch Diameter Hole	1
2	58-00701-03	Plug Button, 0.906 Inch Diameter Hole	2
3	68-15270-00	Bracket, 0.090 Thick Aluminum	1
4	66U1-5371-7	Screw, Machine Hex Head #10-24 X 0.500	3
5	66U1-5321-8	Washer, Plain, #10 Type A	3
6	62-10911-00	Label, Warning! ML3 Controller Only!	1
7	66U1-2593-19	Gasket, V Type, 6.38 Inches Long	1
8	58-00967-00	Spacer, Locking (Subpanel)	2
9	66U1-5321-7	Washer, Plain, 1/4 W, Type A	2
10	34-00655-10	Screw, Captive, Hex Head, 1/4-20 X 1.25	2
11	34-06053-03	Washer, 0.250 ID X 1.000 OD	4
12	69NT41-982-3	Strap Assembly Ground, All Populated	1
13	66U1-9592-13	Standoff, 1/4-20 X 0.375 Inches Long	2
14	34-00667-11	Nut, Self-Locking, 1/4-20	2
15	66U1-5321-3	Washer, Plain, 1/4 N, Type A	2
16	AU27JR171	Washer, Lock, 1/4 Ext Tooth	10
17	AT39JA171	Nut, Hex, 1/4-20	10
18	79-66648-00	Control Box, Blue	1
19	68-66776-01	Bracket, Latch Closure, Blue	1
20	86-66689-00	Stop, Door Latch, Latch Closure, Blue	1
21	68-66773-01	Keeper, Latch Closure	1
22	58-04026-70	Protector, 0.88 X 2.93, Two Holes	1
23	34-00928-02	Rivet, Blind, 0.125 Inch Diameter, 0.126-0.187	2

1.14 CONTROLLER KIT - FACING VIEW

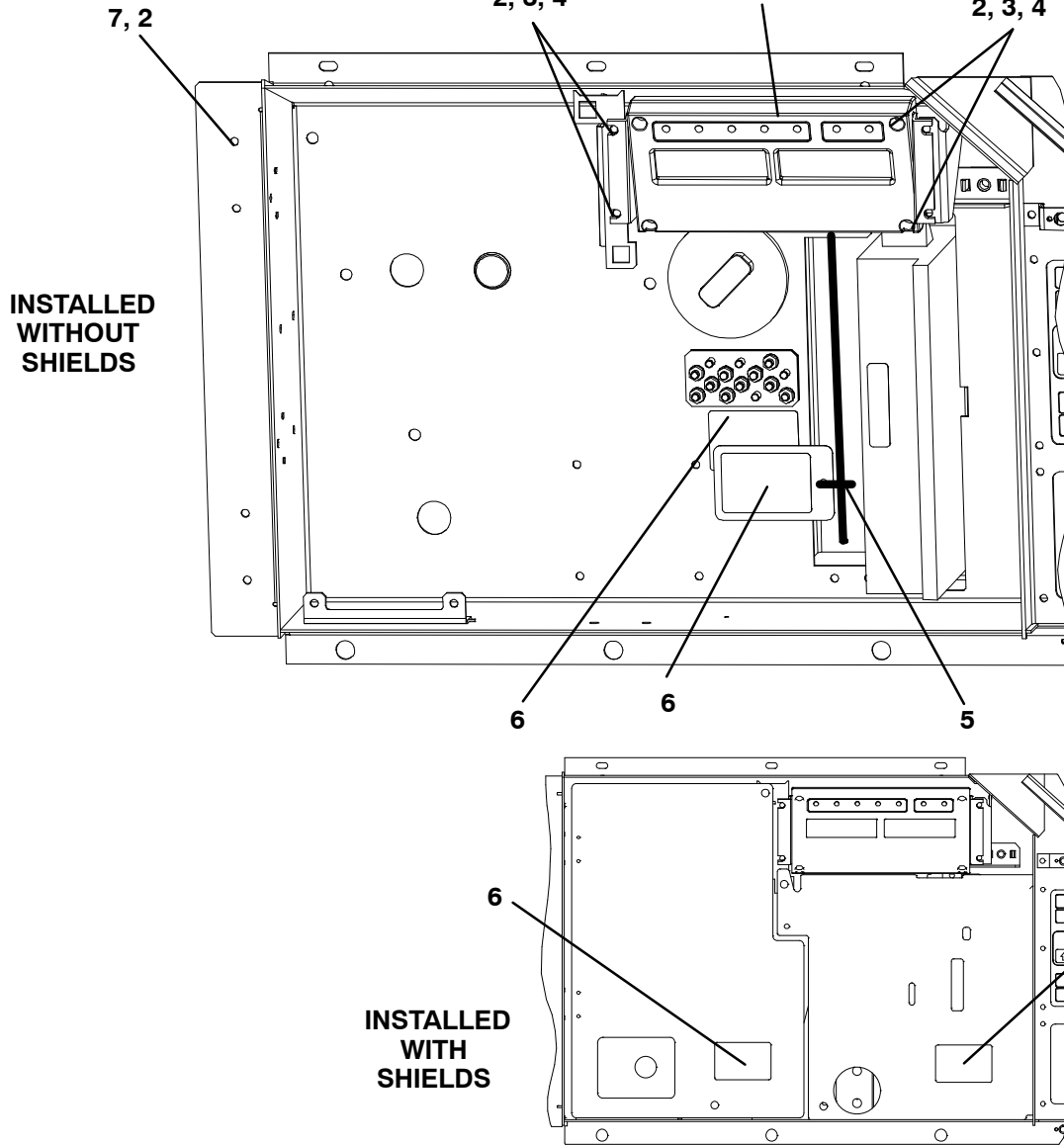


77-01291-02

**1.14 CONTROLLER KIT – FACING VIEW (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	58-04316-00	Base, Mounting	5
2	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	A/R
3	66U1-5361-25	Screw, Cap, Hex Head, 1/4-20 X 0.75	8
4	66U1-5321-7	Washer, Plain 1/4, Type A	4
5	34-06053-00	Washer, 0.250 ID X 0.80 OD	3
6	66U1-3803	Tube, Heat Shrink 0.25 X 2.12	2
7	66U1-2552-171	Gasket	1
8	58-00849-20	Tube, Slit, 5/8 ID, 14 Inches Long	1
9	34-06154-03	Screw, Cap, Hex Head 1/4-20 X 1	2
10	66U1-5321-3	Washer, Plain, 1/4 Type A	6
11	34-06053-13	Washer, Retaining, 0.19 ID X 0.80 OD (.250)	6
12	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1	4
13	58-00849-03	Tube, Slit, 5/8 ID X 20 Inches Long	1
14	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750	5
15	12-00495-02SV	Sensor, Ambient <b>(AMBS)</b>	1
16	69NT35-2692-1	Washer, Fender, 1/4	3
17	34-06053-03	Washer, 0.250 ID X 1 Inch OD	3
18	AU27JR171	Washer, Lock, 1/4	2
19	58-00065-82	Grommet	1
20	42-00597-00	Insulation, Sensor Housing	1
21	42-00597-01	Insulation, Sensor Housing	1
22	68-14505-00	Plate	1
23	42-00595-00	Gasket	1
24	68-14506-00	Plate	1
25	34-00662-09	Washer, Plain, #10 Medium	4
26	42-00596-00	Gasket	1
27	68-14550-00	Bracket, Sensor	1
28	34-00928-03	Rivet, Blind	2
29	12-00500-01SV	Sensor Assembly <b>(STS and SRS)</b>	2
30	66U1-5371-14	Screw, Machine, Hex Head, 1/4-20 X 3/4	1
31	44-00423-00	Clamp, Conduit	1
32	58-04610-00	Protector, Probe Bracket	1
33	66U1-3882-3	Wire Tie, 1/16-4, Self-Locking	6

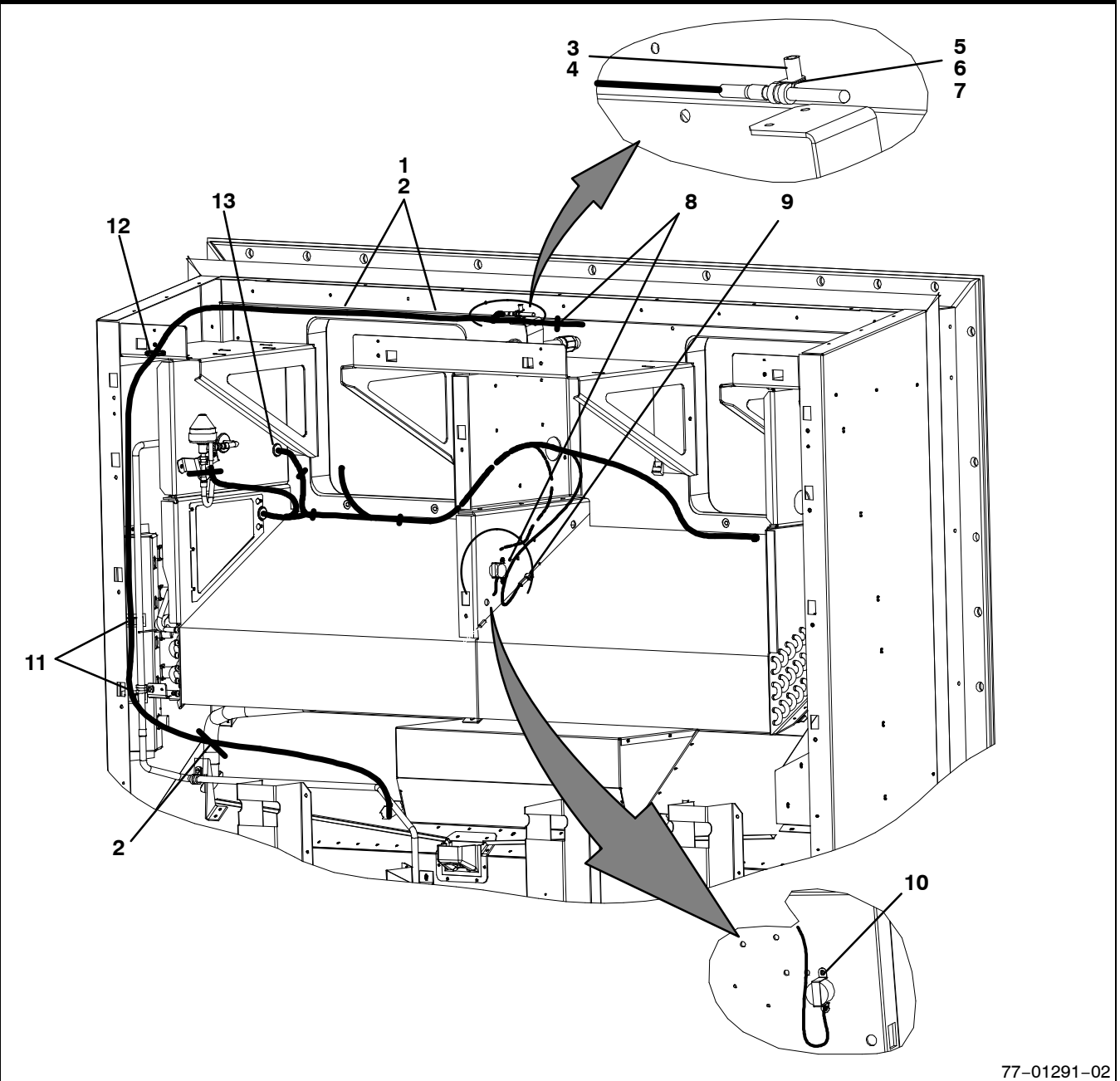
## 1.15 CONTROLLER KIT - FACING VIEW WITH AND WITHOUT SHIELDS



77-01291-02

Item	Part Number	Description	Qty
1	12-00433-05	Controller Module	1
2	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.5	9
3	69NT35-2692-4	Washer, Fender, #10	4
4	34-06251-00	Screw, Button Head 10-24 X 0.75 Torx-Pin	4
5	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	A/R
6	62-11270-08	Label, Warning Software Ver 5348	3
7	66U1-5321-8	Washer, Plain 10 Type A	4

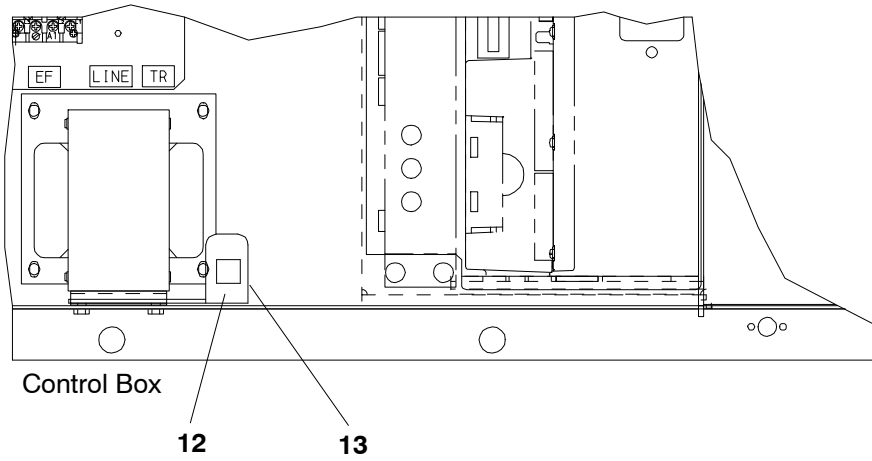
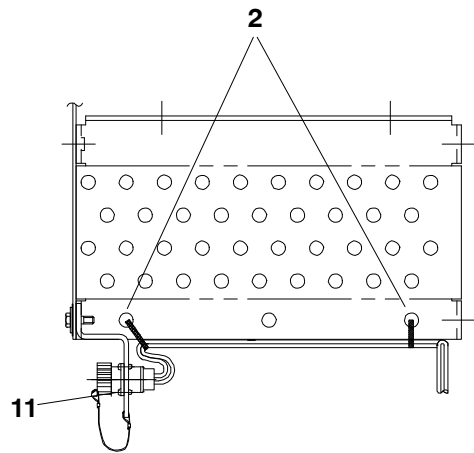
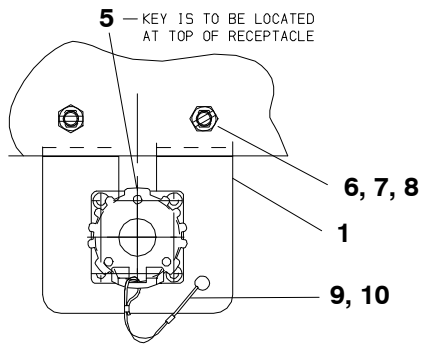
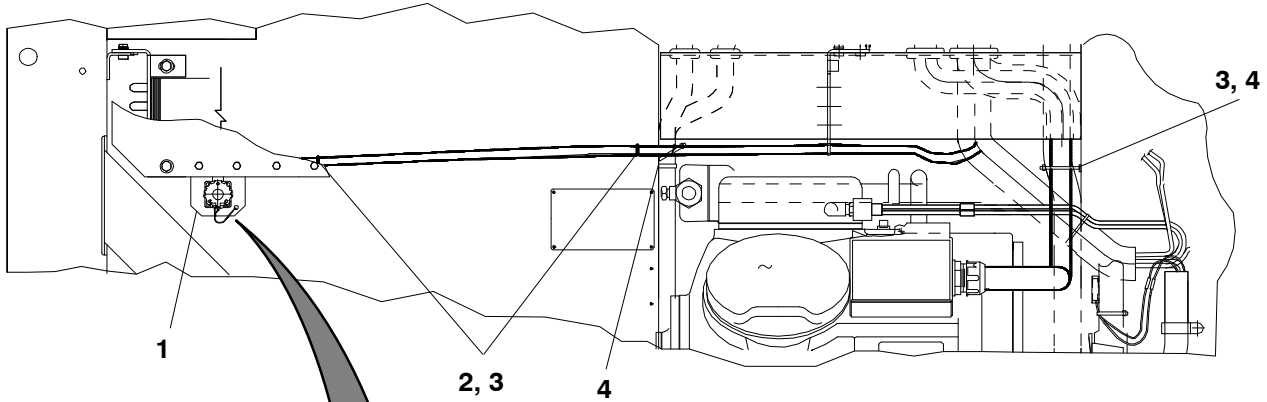
**1.16 CONTROLLER KIT - REAR VIEW**



77-01291-02

Item	Part Number	Description	Qty
1	58-04315-00	Base, Mounting, 0.250 Inch Diameter Mounting Hole	2
2	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	A/R
3	66U1-5321-7	Washer, Plain, 1/4 W, Type A	4
4	34-06051-32	Rivnut, 10-24 (0.020/0.130)	1
5	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500, Slotted	3
6	44-01041-04	Clamp, Cushioned, 0.250 Inch Diameter	1
7	34-00663-09	Washer, Lock, #10 Spring	1
8	58-00969-00	Wire Tie, 2.80 Inch Diameter, Double Loop	2
9	34-01178-23	Screw, Hex Head, #8-32 X 3/4 Inches Long, SST	1
10	34-01178-22	Screw, Hex Head, #8-32 X 1/2 Inches Long, SST	2
11	44-00361-00	Clip, Retaining, 0.88-1.00, Wire Mounting	2
12	66U1-1571-14	Grommet, 0.50 ID X 1.50 OD	1
13	58-00065-46	Grommet, 0.25 ID X 0.75 OD X 0.12	1

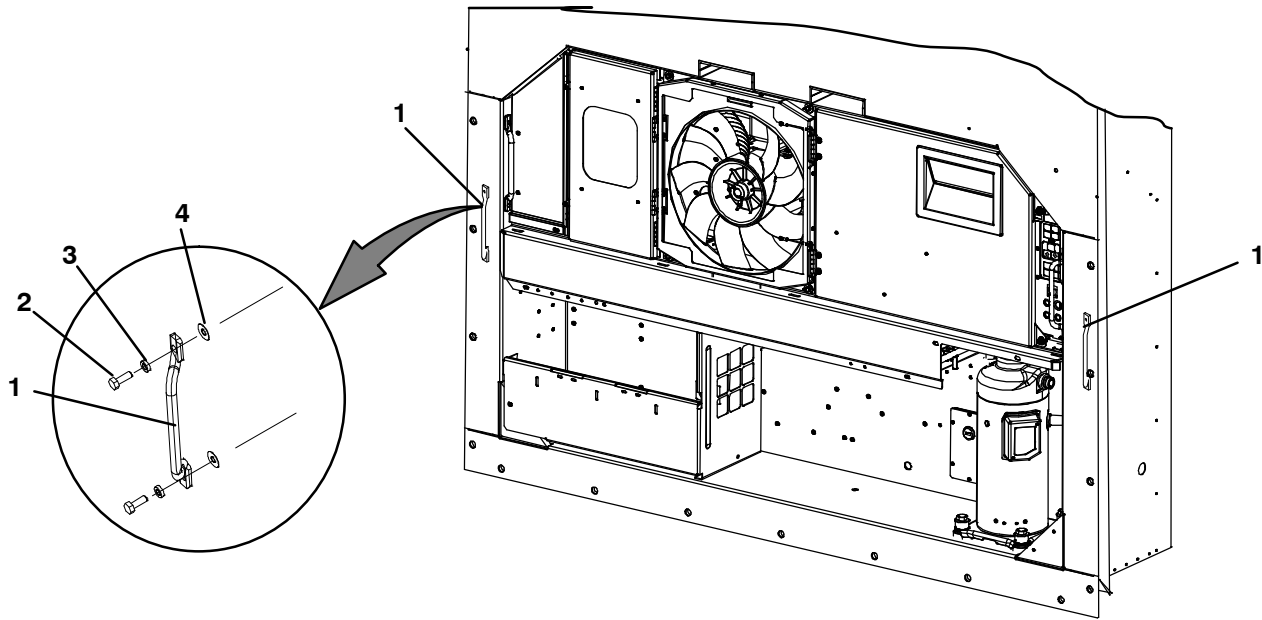
# 1.17 INTERROGATOR RECEPTACLE



77-01223-04

<b>1.17 INTERROGATOR RECEPTACLE (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
-	77-01223-00	Left Mount Interrogator Receptacle - Includes:	
1	69NT41-192	Bracket Assembly, White	1
2	66U1-3882	Wire Tie, 1/16-1 3/4 Self-Locking	4
3	58-04316-00	Base, Mounting 0.250 Diameter Mounting Hole	3
4	66U1-3882-3	Wire Tie, 1/16- 4.0 Self-Locking	2
5	22-01660-05	Cap, Dust, 5-Pin	1
6	66U1-5321-8	Washer, Plain, #10 Type A	2
7	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500 Slotted	2
8	34-06053-05	Washer, 0.205 ID X 0.600 OD	2
9	58-01097-00	Cord, Nylon, 0.085 OD	2
10	22-02205-00	Connector, Splice, Non-Insulated	2
11	34-06142-00	Rivet, 0.110 Diameter, 0.126-0.250	4
Note: Connector, Interrogator ( <b>Refer to Section 1.40</b> )			
12	34-06139-04	Receptacle, 1/4 Inch Retaining	1
13	69NT35-9952	Angle, 0.080 Thick Aluminum, Painter	1

## 1.18 HANDLES

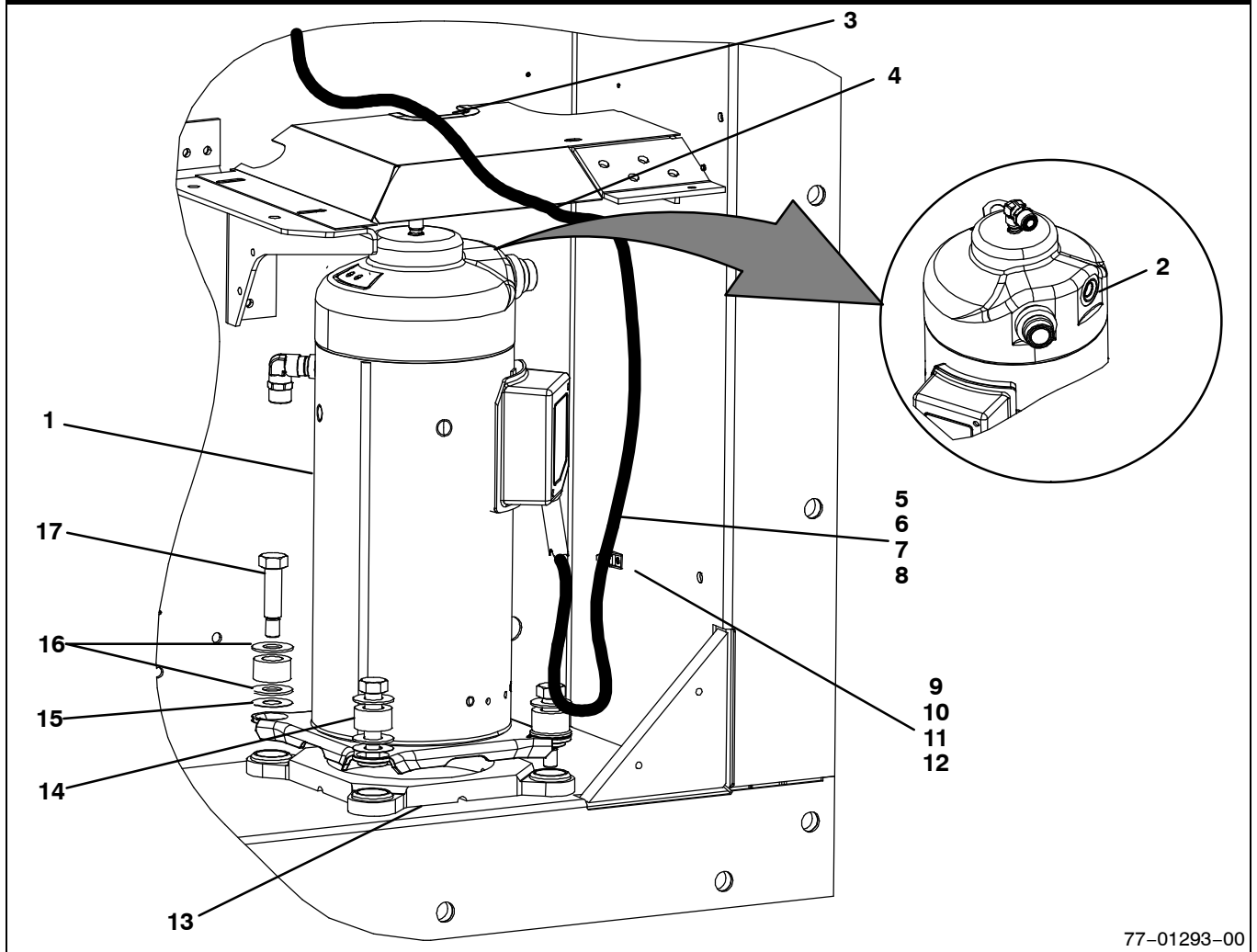


77-01236-00

Item	Part Number	Description	Qty
1	69NT35-8113	Handle, Fixed	2
2	34-00792-07	Screw, Captive, Hex Head, 5/16-18 X 0.88	4
3	66U1-5331	Washer, Lock, 5/16 Spring	4
4	34-06053-15	Washer, Mylar, 0.313 ID X 0.875 OD	4



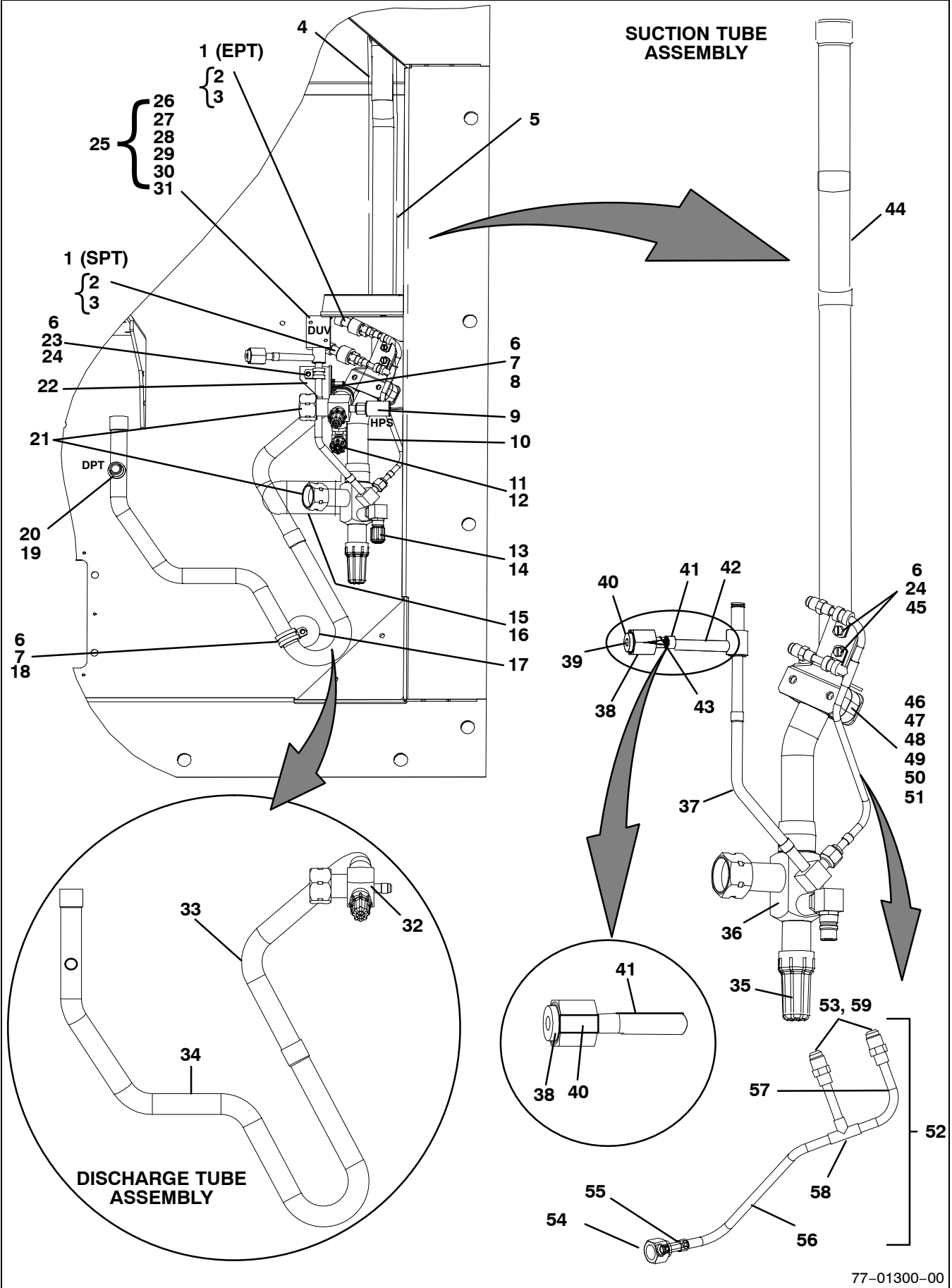
### 1.19 COMPRESSOR, MOUNTING COMPONENTS, AND POWER CABLE



77-01293-00

Item	Part Number	Description	Qty
1	18-10136-22	Compressor Scroll, Digital Unloader – Includes:	1
2	12-00653-00	Sensor, Compressor Discharge Temperature (CPDS)	1
3	42-00183-00	Trim, Flexible Fine Pebble-Black	1
4	66U1-3882-3	Wire Tie, 1/16-4 Self-Locking	1
5	22-04128-00	Cable, Power Kit – Includes:	1
6	22-04128-10	Cable, Power	1
7	22-04128-11	Gasket	1
8	22-04128-13	Screw, Grounding	1
NS	22-04128-12	Lubricant (NSS)	1
9	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	1
10	58-04246-00	Ty-Rap Base, #10 Mounting Tab	1
11	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750	1
12	34-00663-09	Washer, Lock, #10 Spring	1
13	58-04821-00	Base Assembly	1
14	58-04791-01	Mount, Resilient	4
15	34-06053-20	Washer	4
16	34-06236-00	Washer	8
17	34-06277-02	Bolt, Shoulder	4
NS	46-00025-04	Oil, One Quart	1

1.20 COMPRESSOR TUBING



77-01300-00

**1.20 COMPRESSOR TUBING (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	76-00816-00	Transducer, Service <b>(EPT)</b> , <b>(SPT)</b>	2
2	22-01713-46	Wire Harness Transducer, Service	1
3	66U-1-3803	Tube, Heat Shrink .25 X 2.12 Blk	3
4	42-00425-110	Insulation Tube, Pre-Taped	1
5	42-00425-114	Insulation Tube, Pre-Taped	1
6	34-06053-05	Washer	5
7	66U1-3632-20	Clamp, Tube	2
8	34-00795-09	Nut, Self-Locking, 10-32	1
9	12-00309-05	Switch, Pressure <b>(HPS)</b>	1
10	42-00425-115	Insulation, Tube - location	1
11	40-00542-01	Elbow Adapter (Includes O-ring)	1
12	40-00520-03	Cap	1
13	40-00542-00	Elbow Adapter (Includes O-ring)	1
14	40-00520-02	Cap	1
15	42-00425-112	Insulation, Tube, Pre-Taped	1
16	66U1-3882-3	Wire Tie, 1/16-4 Self-Locking	2
17	34-06295-00	Washer, Fender #10	1
18	66U1-5371-10	Screw, Machine, Hex Head, 10-24 X 1	1
19	40-01124-00	Valve Body	2
20	12-00352-00	Transducer, Pressure <b>(DPT)</b>	1

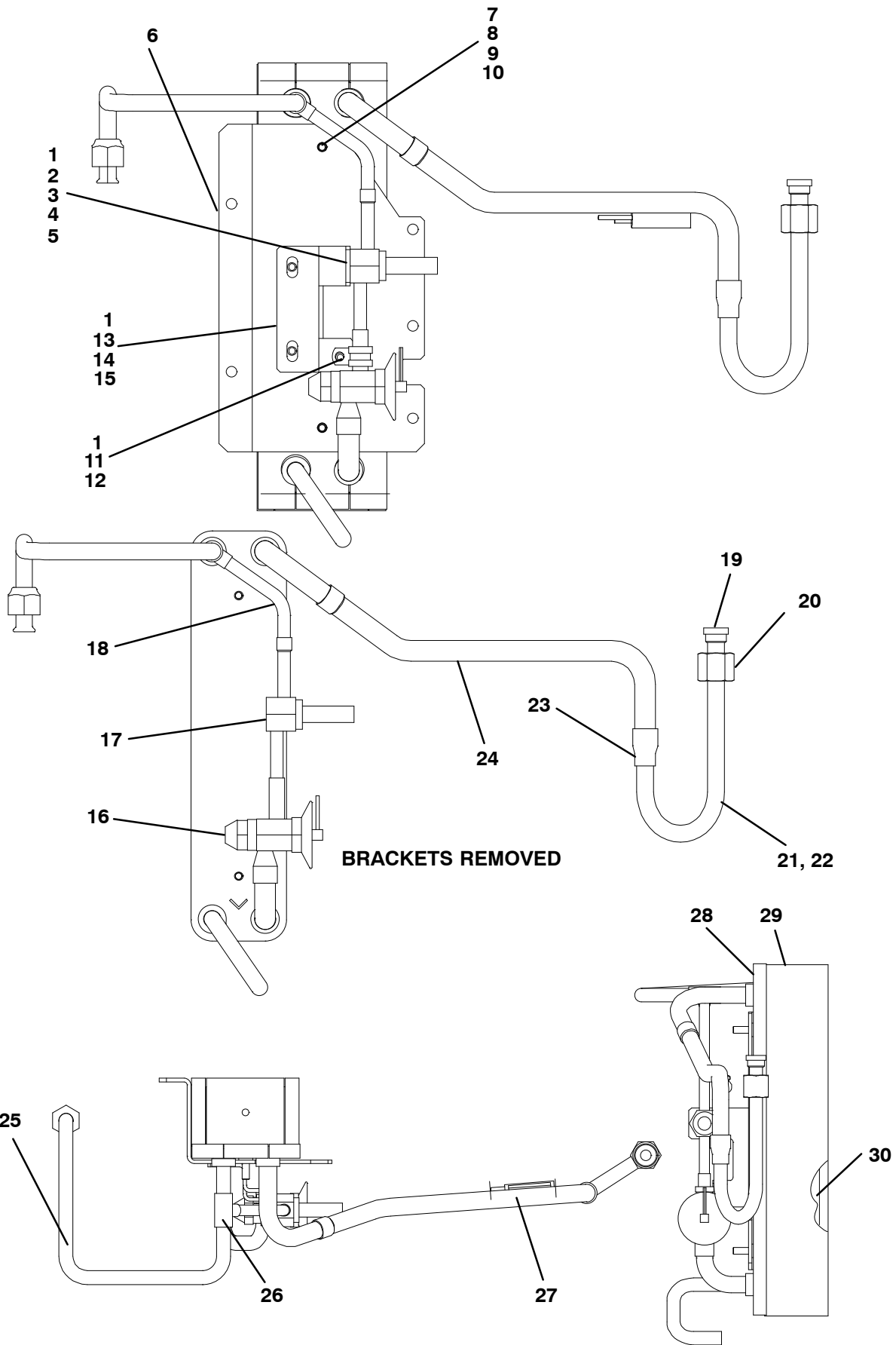
**1.20 COMPRESSOR TUBING (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
21	42-00384-02	Seal, Rotolock	2
22	68-15532-00	Bracket, White	1
23	34-00373-53	Clamp, Tube	1
24	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750	3
25	14-00361-01	Coil, Kit, Solenoid – Includes:	1
26	NSS	Coil, Solenoid	1
27	NSS	Spacer	1
28	NSS	Washer, Plain, M4	1
29	NSS	Washer, Spring, M4	1
30	NSS	Screw, Coil, M4	1
31	66U1-3803	Tube, Heat Shrink	2
32	40-00583-05	Valve, Service, 7/8 ID	1
33	56-08638-00	Tube, Discharge – Upper	1
34	56-08635-00	Tube, Discharge – Lower	1
35	40-50025-00	Valve, Service Cap	1
36	40-00665-20	Valve, Service, 1-1/8 ID	2
37	56-08689-00	Tube	1
38	40-00675-00	Nut, Hex, 37 Degree, Flare, 1/2 OD	2
39	42-00243-12	O-Ring	1
40	40-00663-00	Sleeve	2

**1.20 COMPRESSOR TUBING (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
41	56-07257-11	Tube	1
42	14-00361-00	Solenoid Valve – Includes:	1
43	NSS	Screen, Valve	1
44	56-08634-01	Tube, Suction	1
45	34-00373-51	Clamp, Tube	2
46	68-15997-00	Bracket	1
47	44-00285-54	Clamp, Tube	1
48	34-00655-18	Screw, Cap, Hex Head 1/4-20 X 2.25	2
49	34-06053-00	Washer	2
50	66U1-5321-7	Washer, Plain 1/4 W Type A	2
51	68-15998-00	Nut Plate, 1.125 Thick Aluminum	1
52	79-01977-00	Tube Assembly – Includes:	1
53	14-00351-00	Valve, Core Check	2
54	NSS	Nut, Flare 1/4 Standard	1
55	NSS	Fitting Depressor	1
56	NSS	Tube	1
57	NSS	Tube	1
58	NSS	Tee	1
59	NSS	Valve 1/4 Flare	2

1.21 ECONOMIZER

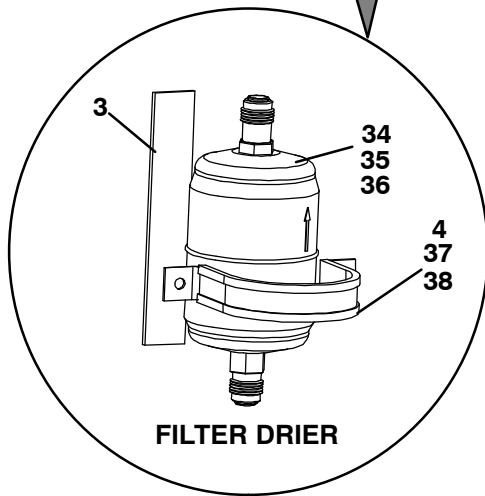
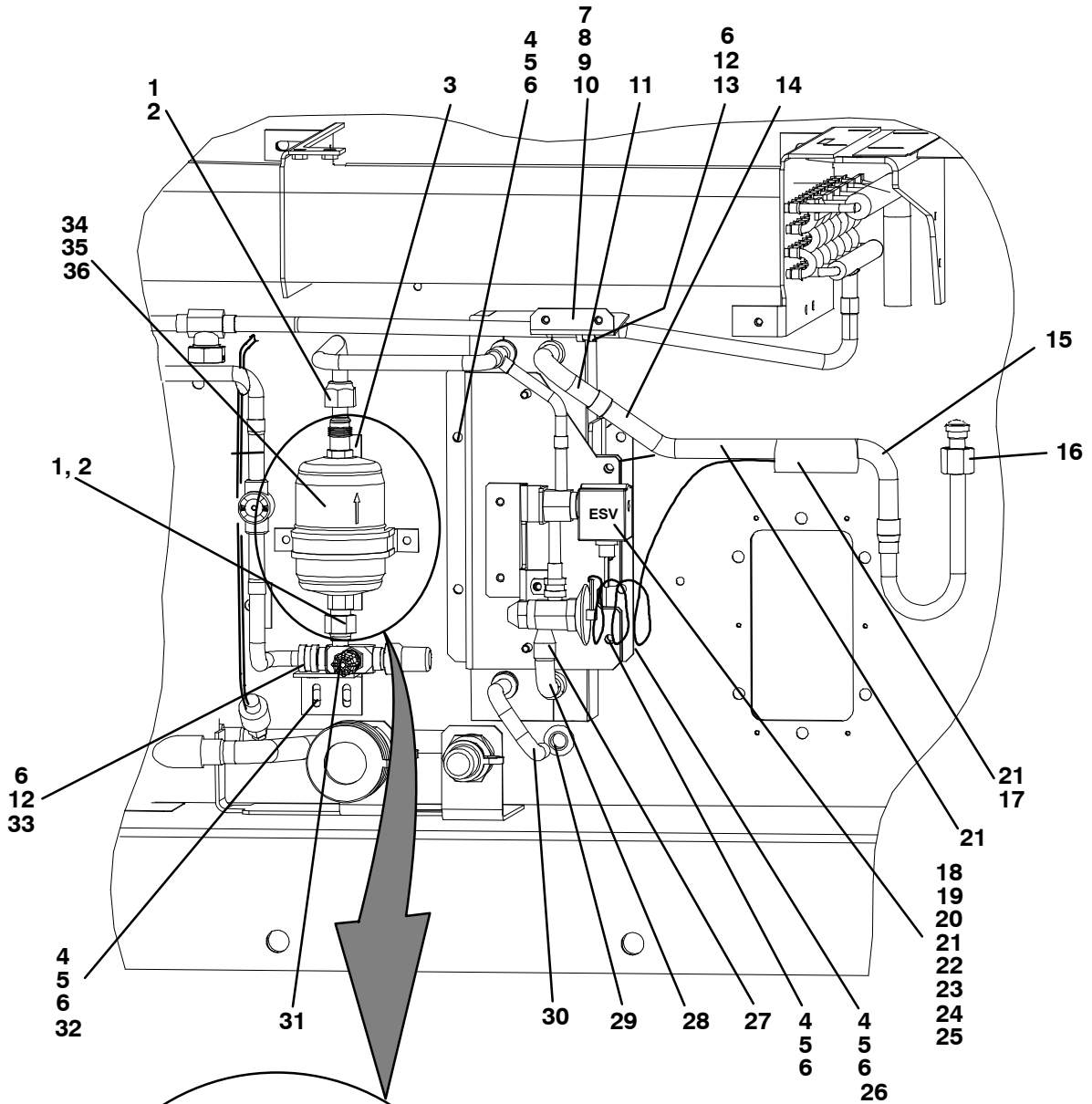


77-01379-05

**1.21 ECONOMIZER (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	34-06053-05	Washer, 0.205 ID X 0.60 OD	7
2	66U1-5371	Screw, Machine, Hex Head, 8-32 X 1/2 Inches Long, Slotted	4
3	66U1-5321-2	Washer, Plain, #8, Type A	4
4	66U1-5331-4	Washer, Lock, #8, Spring	4
5	58-04026-59	Protector, Solenoid Valve	1
6	68-15477-02	Bracket, White	1
7	58-00836-19	Spacer	2
8	34-06053-00	Washer, 0.250 ID X 0.80 OD	2
9	66U1-5321-7	Washer, Plain 1/4, Type A	2
10	34-00667-11	Nut, Self-Locking, 1/4-20	2
11	34-00373-54	Clamp, Tube Cushion	1
12	66U1-5371-6	Screw, Machine, Hex Head, 10-24 X 0.750, Slotted	3
13	66U1-5371-7	Screw, Machine, Hex Head, 10-24 X 0.50	2
14	66U1-5321-8	Washer, Plain 10, Type A	4
15	68-14278-00	Bracket, White	1
16	14-00232-31	Valve, Expansion	1
17	14-01090-12	Valve, Solenoid	1
18	56-07911-00	Tube, Liquid	1
19	40-00668-00	Sleeve, 1/2 ORS	1
20	40-00667-00	Hex Nut, Tube, 1/2 ORS	1
21	42-00667-32	Insulation, Tube	1
22	56-08736-00	Tube, 1/2 OD X 0.035 W	1
23	40-00130-07	Coupling, 5/8 C X 1/2 C	1
24	56-66756-00	Tube	1
25	56-08710-00	Tube, Liquid, 1/2 OD X 0.035 W	1
26	40-66620-01	Reducing Tee 1/2 X 1/2 X 3/8	1
27	42-00032-00	Insulation	1
28	42-00390-03	Insulation, Economizer	1
29	42-00389-03	Insulation, Economizer	1
30	81-04067-00	Heat Exchanger Assembly	1

1.22 LIQUID LINE COMPONENTS

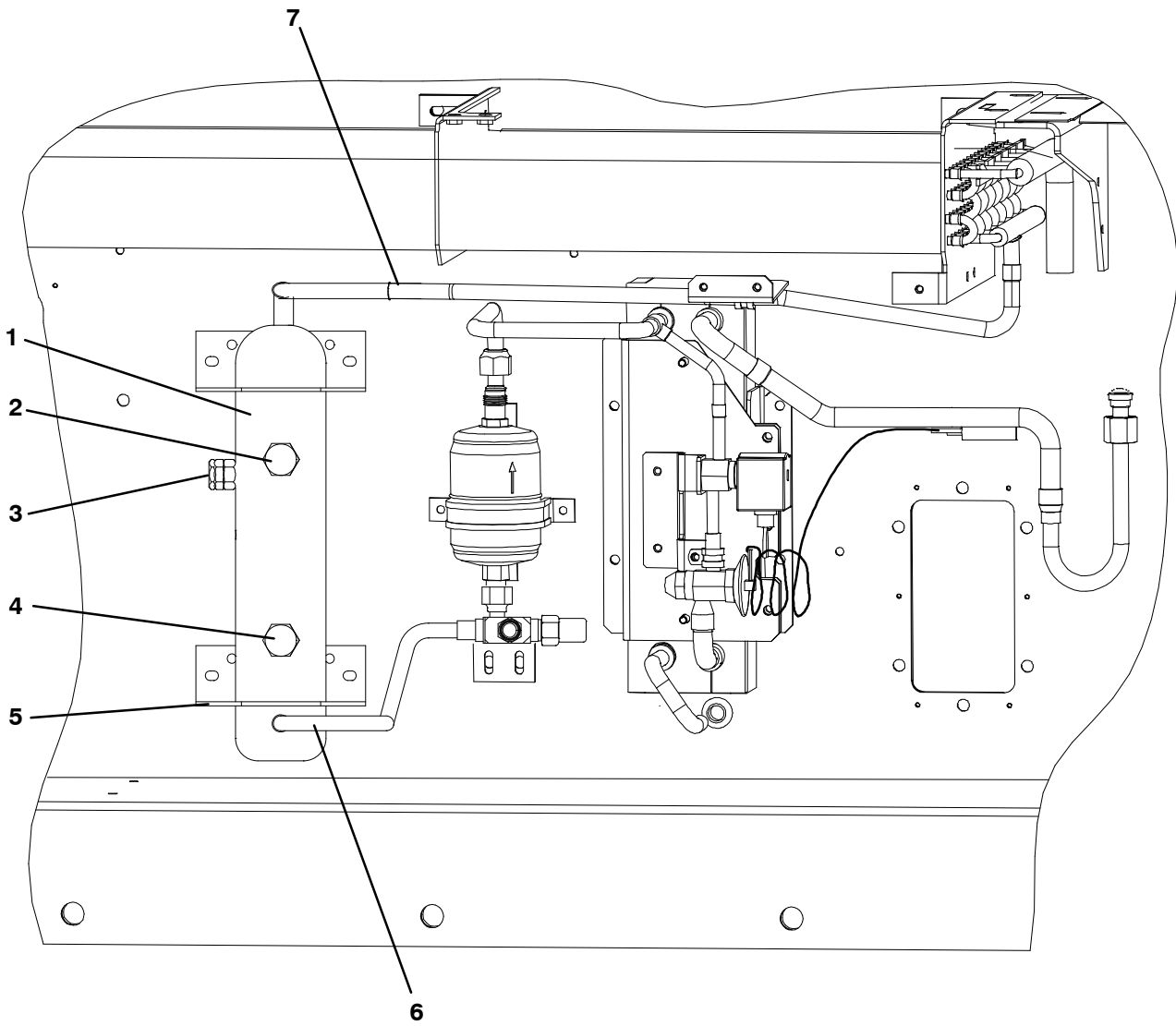




**1.22 LIQUID LINE COMPONENTS (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	42-00032-13	Insulation	2
2	66U1-3882	Wire Tie, 1/16 - 1-3/4, Self-Locking	4
3	66U1-2552-133	Gasket	1
4	66U1-5361-25	Screw, Cap, Hex Head, 1/4-20 X 0.75	A/R
5	66U1-5321-7	Washer, Plain, 1/4, Type A	A/R
6	34-06053-00	Washer, 0.250 ID X 0.8 OD	A/R
7	68-15852-00	Bracket	1
8	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500	8
9	34-06053-05	Washer, 0.205 ID X 0.6 OD	2
10	66U1-5371-7	Screw, Machine, Hex Head, 10-24 X 0.50	12
11	42-00667-249	Insulation, Tube, Pre-Taped	1
12	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750 Slotted	2
13	44-00370-03	Clamp, Cushioned	1
14	42-00667-30	Insulation, Tube, Pre-Taped	1
15	42-00667-27	Insulation, Tube, Pre-Taped	1
16	42-00243-04	O-Ring, 0.50 ID X 0.62 OD	1
17	42-00425-69	Insulation, Tube, Pre-Taped	1
18	34-66638-00	Screw, Captured Washer #10-32	1
19	14-01091-04	Coil, Kit, Solenoid Valve ( <b>ESV</b> ) - Includes:	2
20	NSS	Coil, Solenoid	2
21	NSS	O-Ring	2
22	NSS	O-Ring	2
23	NSS	Spacer, Brass	2
24	NSS	Screw, Captive Washer, #10-32	1
25	66U1-3803	Tube, Heat Shrink	4
26	68-15478-02	Bracket, White	1
27	42-00425-93	Insulation, Tube, Pre-Taped	1
28	42-00425-78	Insulation, Tube, Pre-Taped	1
29	66U1-1571-3	Grommet	1
30	42-00667-28	Insulation, Tube, Pre-Taped	13
31	40-00520-01	Coupling	1
32	68-15172-00	Bracket, White	1
33	34-00373-07	Clamp, Tube, Cushion	1
34	14-00341-07	Filter Drier, O-Ring Single	1
35	14-00341-07PK25	Filter Drier O-Ring, 25 Pack	25
36	14-00284-20	O-Ring Filter Drier	1
37	69NP20-1031	Clamp, Tube, Cushion	1
38	34-06053-03	Washer	2

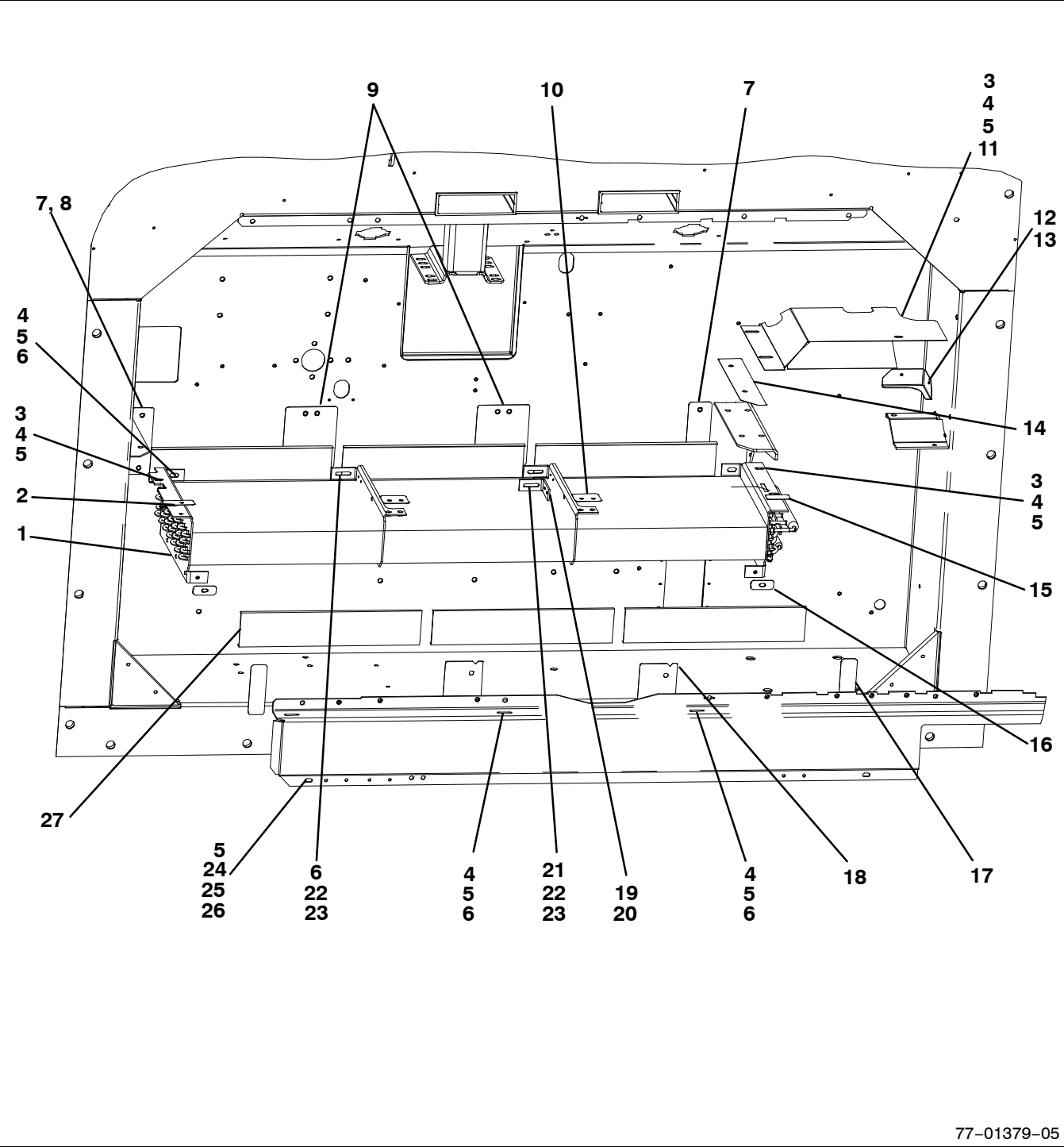
1.23 RECEIVER



77-01379-05

<b>1.23 RECEIVER (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
-	79-01785-02	Receiver Assembly - Includes:	1
1	65-66603-01	Receiver	1
2	14-00220-04	Sight Glass	1
3	14-01032-14	Plug, Fusible, 3/8 NFPT	1
4	14-00221-04	Indicator, Moisture and Liquid	1
5	58-04026-61	Protector	2
6	56-08480-00	Tube, Liquid	1
7	56-08644-00	Tube, Liquid	1

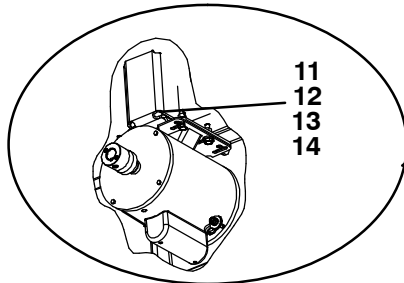
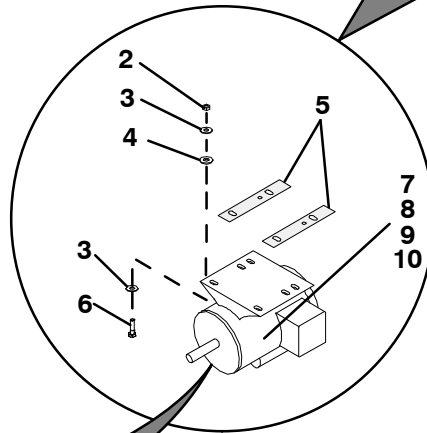
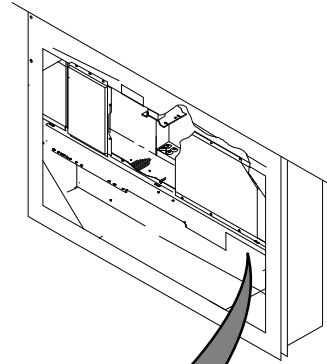
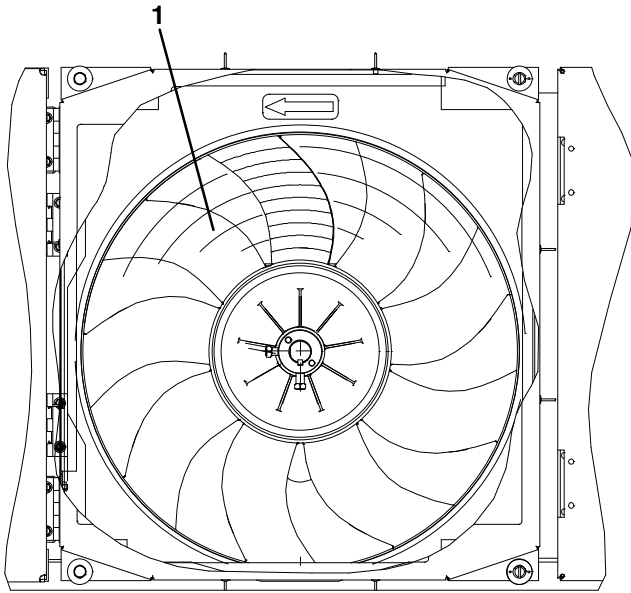
1.24 CONDENSER COIL AND COVERS



77-01379-05

<b>1.24 CONDENSER COIL AND COVERS (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	08-00319-20	Coil Assembly, Condenser	1
2	58-04026-46	Protector, Coil Cover	1
3	34-00655-04	Screw, Cap Hex Head, 1/4-20 X 0.50	4
4	66U1-5321-7	Washer, Plain, 1/4	A/R
5	34-06053-00	Mylar Washer, 0.250 ID X 0.800 OD	A/R
6	66U1-5361-25	Screw, Cap Hex Head, 1/4-20 X 0.75	5
7	58-04026-50	Protector, Tube Sheet	2
8	58-04026-76	Protector, Condenser Coil	1
9	58-04026-57	Protector, Center Tube Sheet	2
10	58-04026-45	Protector, Tube Sheet	2
11	68-15476-00	Cover, White	1
12	68-15285-00	Baffle, White	1
13	34-00928-03	Rivet, Blind	2
14	58-04026-77	Protector	1
15	58-04026-21	Protector	1
16	58-04026-41	Protector, Coil Cover	2
17	58-04026-42	Protector, Coil Cover	2
18	58-04026-44	Protector, Coil Cover	2
19	68-14754-00	Bracket, Tube Sheet Support	1
20	34-00928-04	Rivet, Blind	2
21	34-00655-08	Screw, Cap, Hex Head, 1/4-20 X 1.00	1
22	34-01181-02	Washer, Flat	2
23	34-06053-22	Mylar Washer, 0.195 ID X 1.125 OD	2
24	66U1-5371-7	Screw, Machine, Hex Head, #10-24 X 0.500	4
25	69NT35-2692-4	Washer, Fender	4
26	68-15851-02	Cover	1
27	69NT35-8693-11	Protector	6

1.25 CONDENSER FAN MOTOR

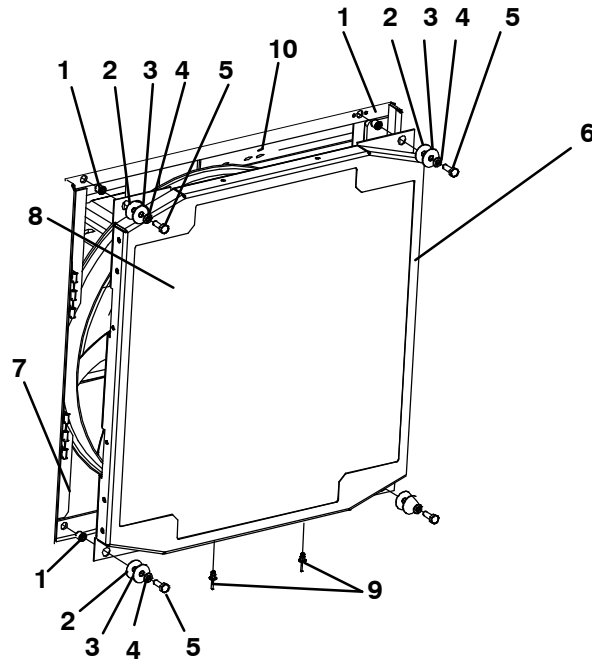


77-01212-00

**1.25 CONDENSER FAN MOTOR (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	38-00585-00	Fan, Condenser	1
2	34-00667-12	Nut, Self-Locking, 5/16-18	4
3	34-01181-01	Washer, Flat	8
4	34-06053-02	Washer, 0.375 ID X 1.000 OD	4
5	69NT35-6112	Protector, Condenser Fan Motor Mounting	2
6	66U1-5361	Screw, Cap, Hex Head, 5/16-18 X 1.25	4
7	54-00586-20	Motor, Condenser, Single Phase - Includes:	1
8	04-50029-00	Bearing	2
9	22-01997-05	Pin	A/R
10	22-01997-10	Pin, Grounding	A/R
11	69NT35-3452	Shim	1
12	69NT35-3452-1	Shim	1
13	69NT35-3452-2	Shim	1
14	69NT35-3452-3	Shim	1

**1.26 CONDENSER FAN GRILLE ASSEMBLY, BOLTED**



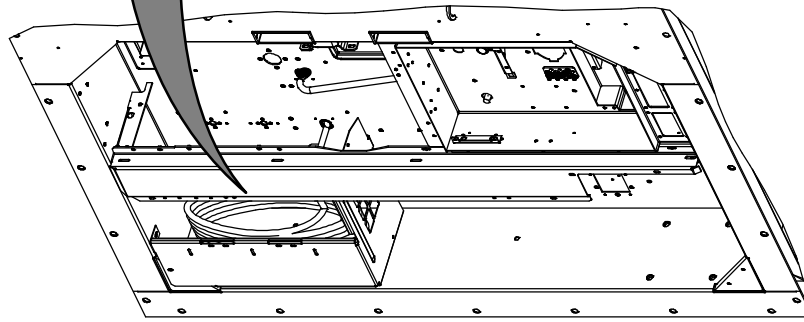
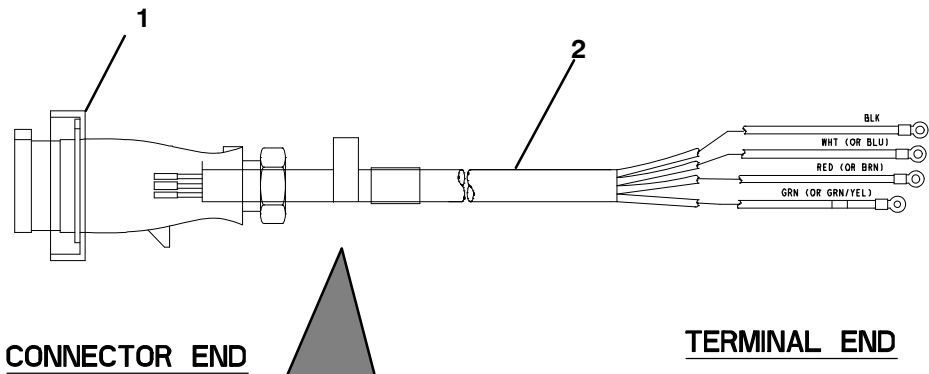
**BOLTED CONDENSER FAN GRILLE**

77-01212-00

Item	Part Number	Description	Qty
1	34-06051-36	Rivnut, 1/4-20	A/R
2	34-06053-03	Washer, 0.250 ID X 1.000 OD	A/R
3	69NT35-2692-1	Washer, Fender, 1/4	A/R
4	34-00663-11	Washer, Lock, 1/4 Spring	A/R
5	66U1-5361-25	Screw, Cap Hex Head, 1/4-20 X 0.75	A/R
6	79-66635-00	Grille and Venturi Assembly, Blue - Includes:	1
7	68-12635-05	Panel Venturi	1
8	86-04637-00	Grille Assembly	1
9	34-00928-07	Rivet, Blind	8
10	62-11273-00	Label, Rotation	1



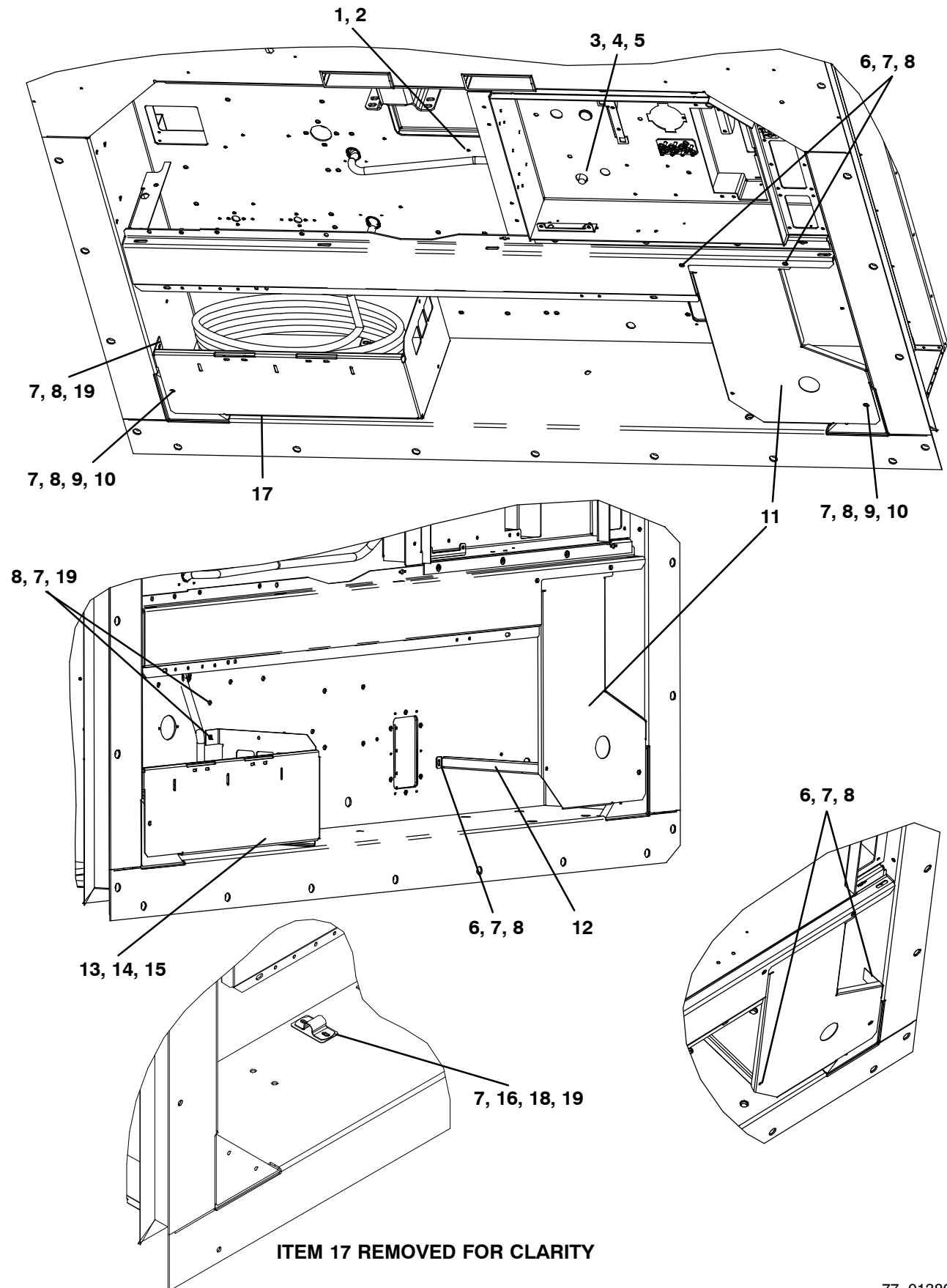
## 1.27 VOLTAGE CABLES



22-6665-06

Item	Part Number	Description	Qty
1	22-02378-00	Plug 4 Pole, 440V	1
2	22-66654-00	Cable Assy 460V	1

1.28 CABLE GUARDS

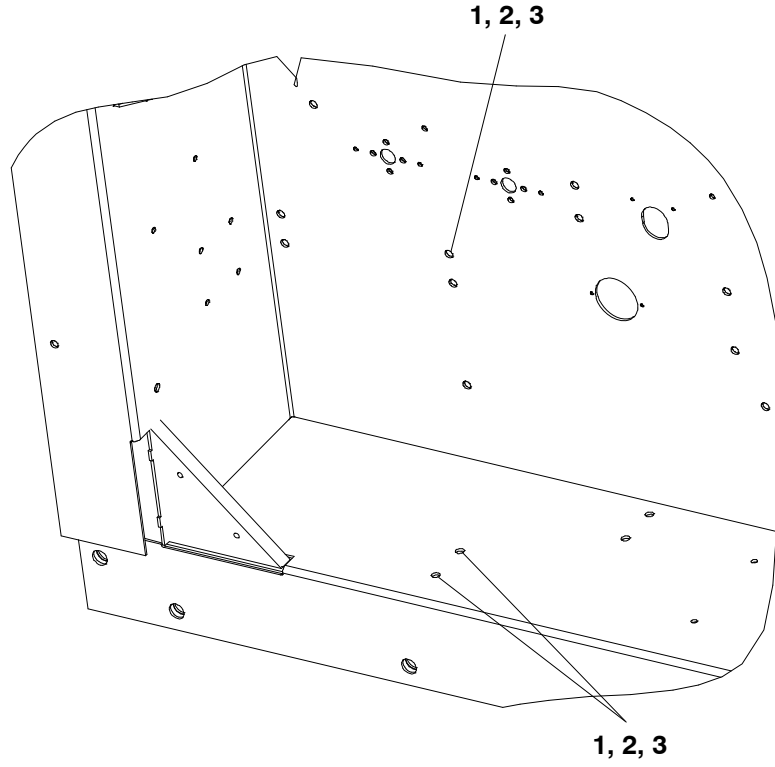


77-01380-06

**1.28 CABLE GUARDS (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	58-04316-00	Base, Mounting, 0.250 Inch Diameter Mounting Hole	1
2	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	1
3	66U1-7352	Connector, Straight, Watertight	1
4	34-06136-01	Nut, Lock, 3/4 Inch NPT	1
5	66U1-1251-2	O-Ring, 3/4 Hub Sealing	1
6	66U1-5361-25	Screw, Captive, Hex Head, 1/4-20 X 0.75	5
7	66U1-5321-7	Washer, Plain, 1/4 W, Type A	14
8	34-06053-00	Washer, 0.250 ID X 0.800 OD	10
9	66U1-5361-11	Screw, Captive, Hex Head, 1/4-20 X 1.50	2
10	34-00667-11	Nut, Self-Locking, 1/4-20	2
11	68-15105-00	Cover	1
12	68-15118-02	Brace, Support	1
13	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750 Slotted	2
14	66U1-5321-8	Washer, Plain, #10 Type A	2
15	34-06053-05	Washer 0.205 ID X 0.600 OD	2
16	58-04026-07	Protector, 1.63 X 3.00 Inches Long	1
17	68-86107-00	Guard	1
18	68-14456-00	Cable Clamp, Cable Cutter, 16 Gage	1
19	AA06JA170	Screw,Cap Hex Head 1/4-20 X 1.00	5

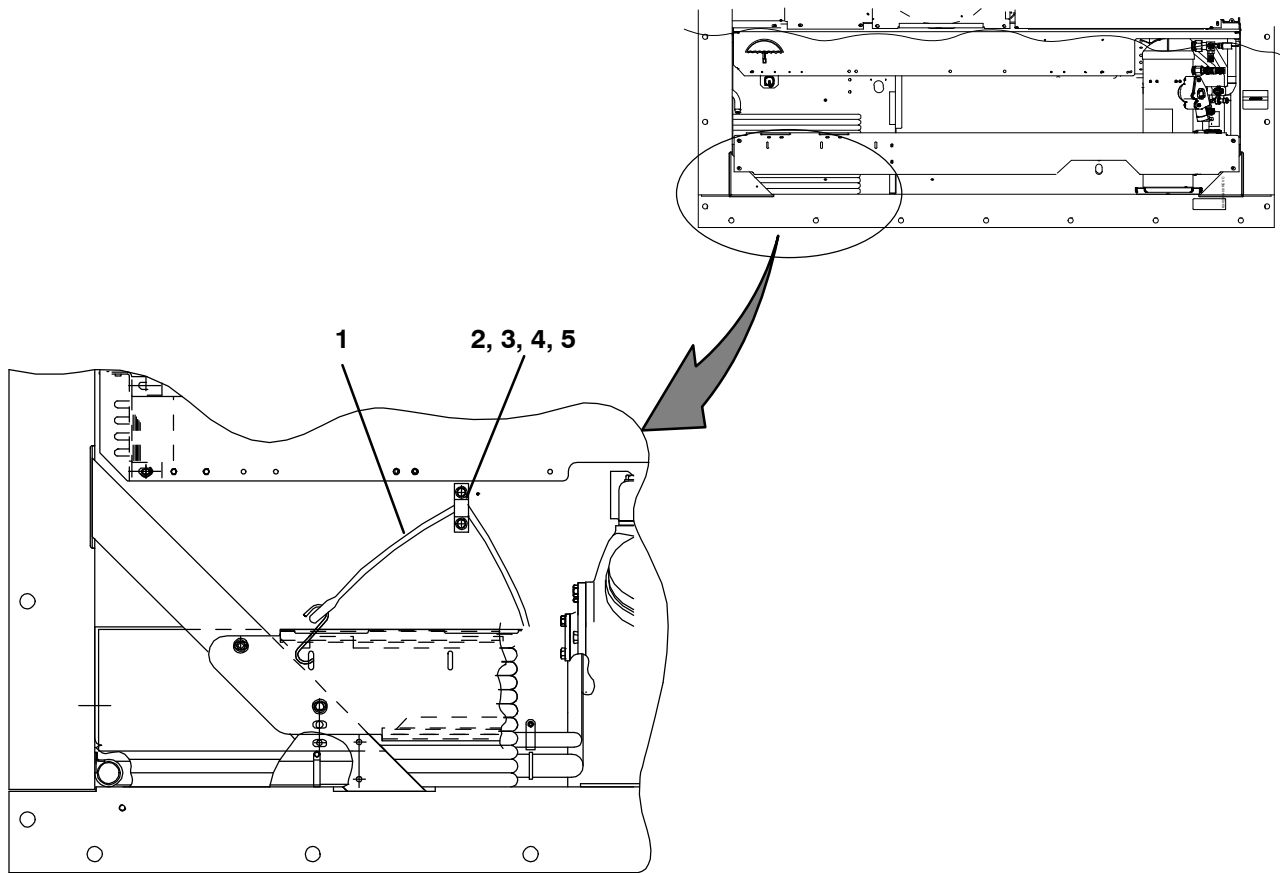
**1.29 AUTOTRANSFORMER PROVISION**



77-01001-03

Item	Part Number	Description	Qty
1	AA06JA170	Screw, Hex Head, 1/4-20 X 1.00	7
2	34-06053-00	Washer, Mylar, 0.250 ID X 0.800 OD	7
3	66U1-5321-7	Washer, Plain, 1/4 W Type A	7

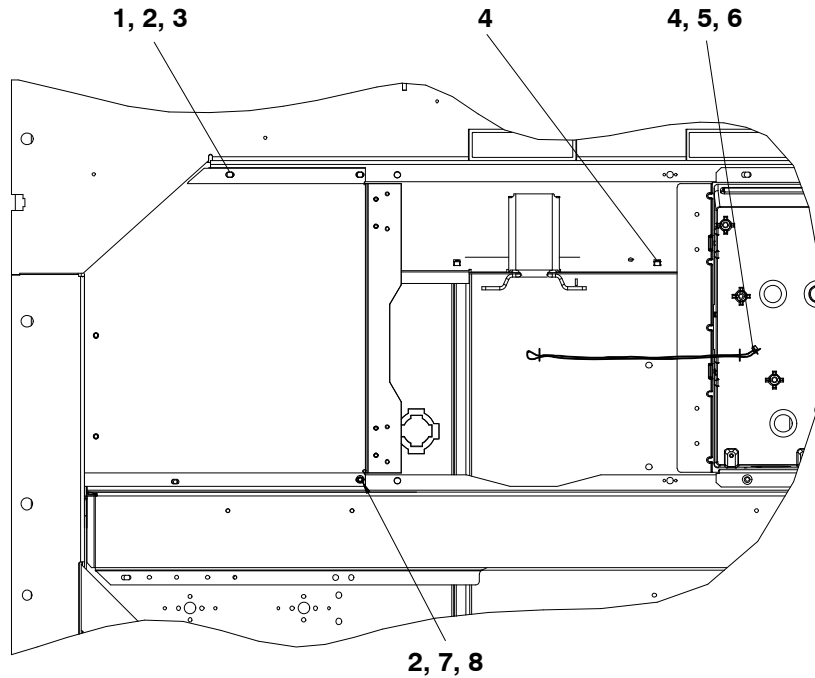
### 1.30 CABLE RESTRAINT COMPONENTS



69nt--43---379

Item	Part Number	Description	Qty
1	66U1-5321-7	Washer, Flat, 1/4, SST	2
2	66U1-5361-25	Screw, Captive, Hex Head, 1/4-20 X 0.75 Inches Long, SST	2
3	34-06053-03	Washer, Mylar, 0.25 ID X 1.00 OD	2
4	69NT35-5992	Cable Restraint, SST	1
5	66U1-2603	Strap, Tie Down	1

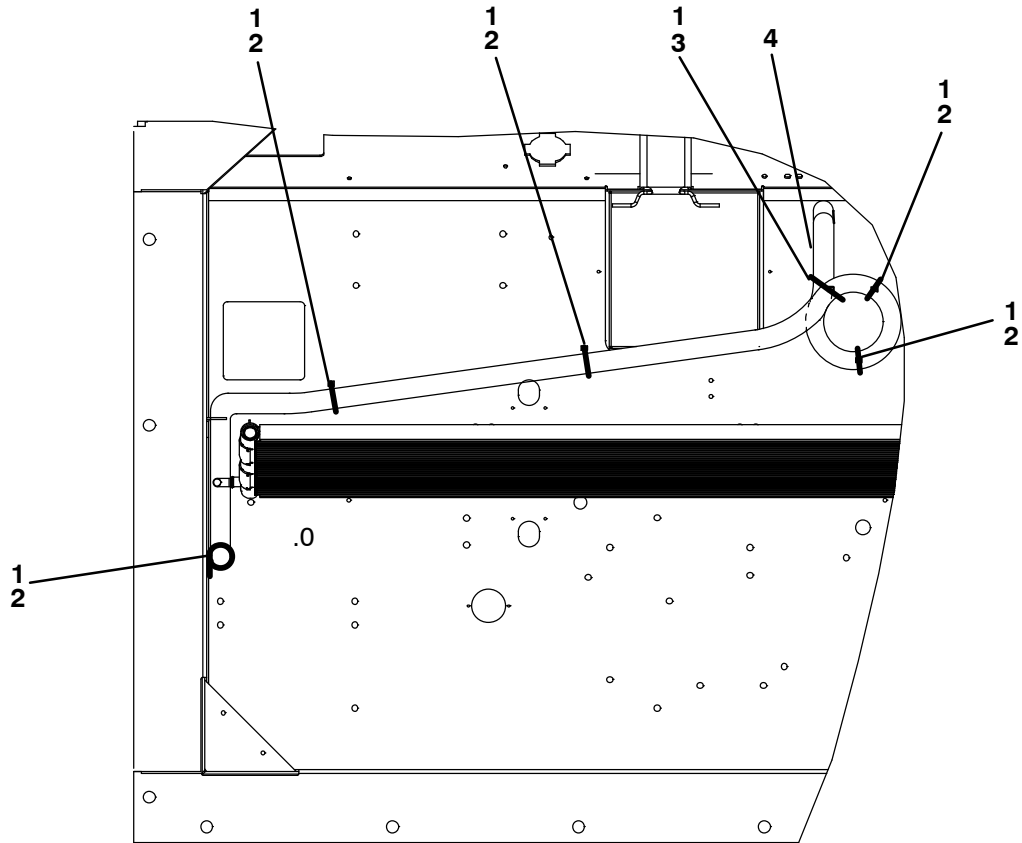
### 1.31 TEMPERATURE RECORDER



77-01108-19

Item	Part Number	Description	Qty
1	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	4
2	66U1-5321-7	Washer, Plain 1/4 W Type A	2
3	34-06053-13	Washer, Retaining, 0.195 ID X 0.80 OD, Mylar	2
4	66U1-3882	Wire Tie 1/16-1-3/4, Self-Locking	6
5	22-66657-00	Harness ML3, E-Record Connection	1
6	22-01713-18	Harness, E-Record Connection	1
7	69NT35-2692-1	Washer, Fender 1/4	2
8	34-06053-03	Washer, 0.25 ID X 1.00 OD, Mylar	2

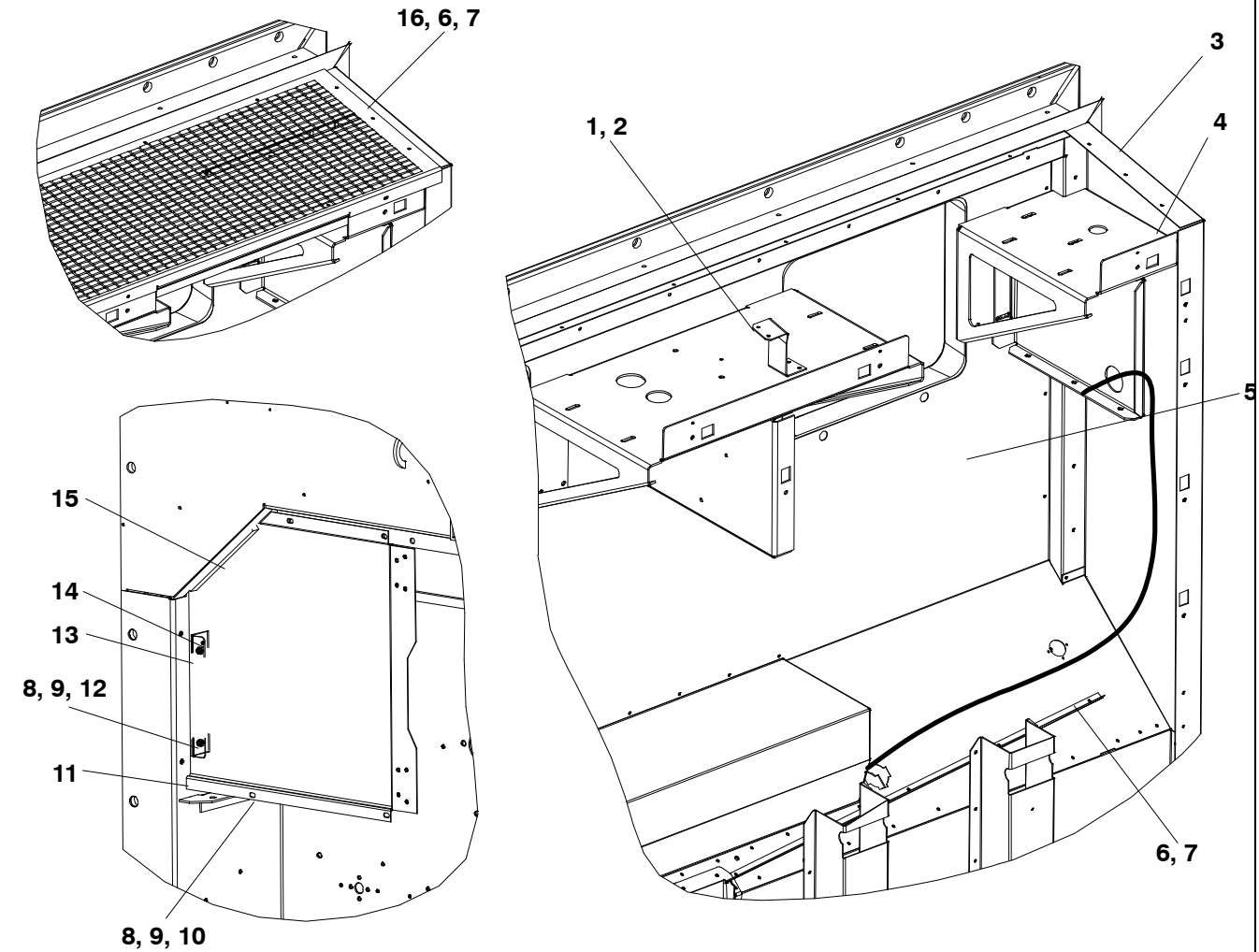
**1.32 DRAIN**



77-01235-00

Item	Part Number	Description	Qty
1	58-04316-00	Base, Mounting	7
2	66U1-3882	Wire Tie, 1/16, 1-3/4 Self-Locking	6
3	58-00969-00	Wire Tie, 2.80 Inch Diameter, Double Loop	1
4	58-04539-05	Tube, Flexible, 82 Inches Long	1

**1.33 LOWER AIR EXCHANGE – None**

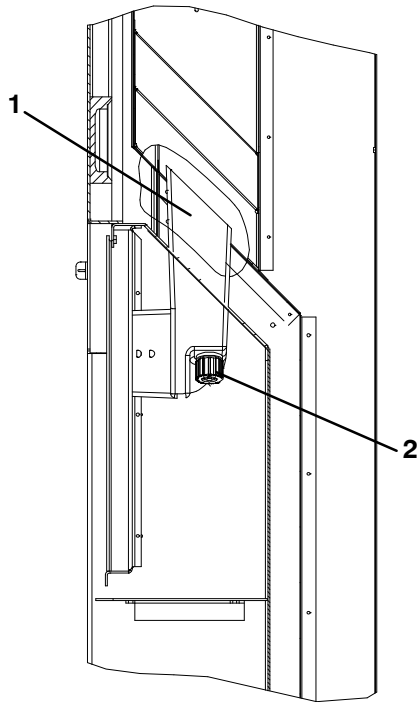


77-66642-B

Item	Part Number	Description	Qty
1	68-12815-00	Bracket	1
2	34-00928-09	Rivet, Blind	8
3	68-15336-00	Channel Assembly	1
4	68-13984-00	Fan Deck Assembly	1
5	68-86113-00	Panel	1
6	68-86047-01	Angle	1
7	34-00928-07	Rivet, Blind	18
8	66U1-5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	3
9	34-06053-18	Washer	3
10	69NT35-2692-1	Washer, Fender 1/4	1
11	68-86120-00	Cover, Recorder	1
12	66U1-5321-3	Washer, Plain 1/4 N Type A	2
13	69NT43-307	Bracket Assembly	1
14	34-00928-03	Rivet, Blind	2
15	66U1-2552-186	Gasket	1
16	68-12821-00	Grille	1

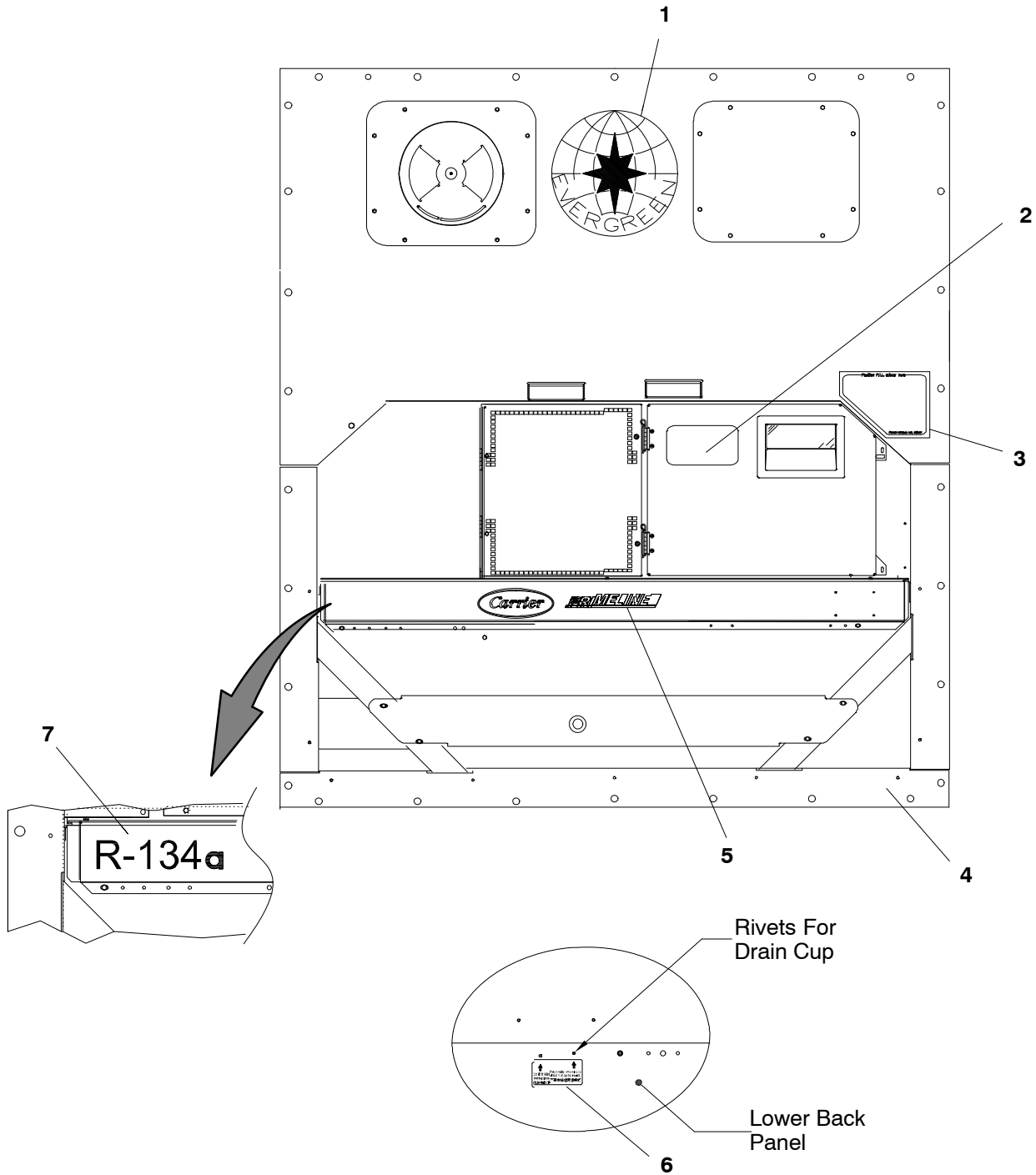


**1.34 BULKHEAD PENETRATION – LOWER AIR EXCHANGE**



Item	Part Number	Description	Qty
1	58-04162-01	Duct, Elbow, Fresh Air	1
2	69NT35-8258	Disc, 0.040 Thick Aluminum	1

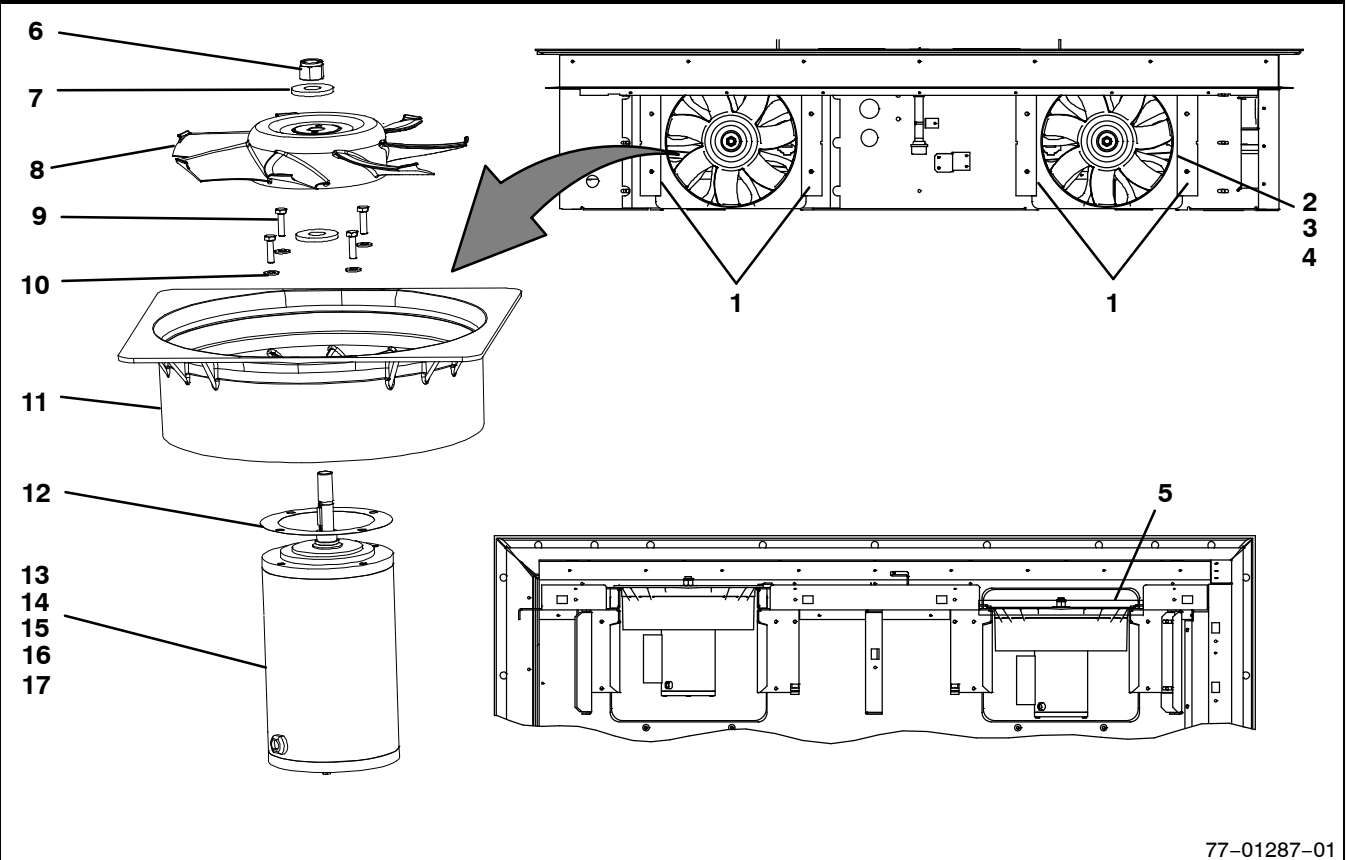
# 1.35 LABELS AND DECALS



77-01294-47

Item	Part Number	Description	Qty
1	62-02823-07	Label Evergreen Logo	1
2	62-10799-04	Label Function Code, (Eng)	2
3	62-66682-01	Label Pti	1
4	62-11263-02	Label Poe Compr. Oil	1
5	62-11424-01	Label Carrier Primeline	1
6	62-66776-00	Label Rivets Warning	1
7	62-11252-00	Label R-134A	1

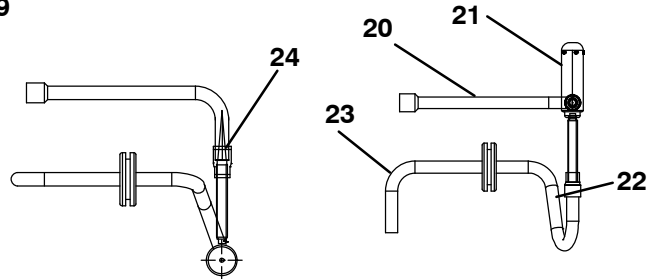
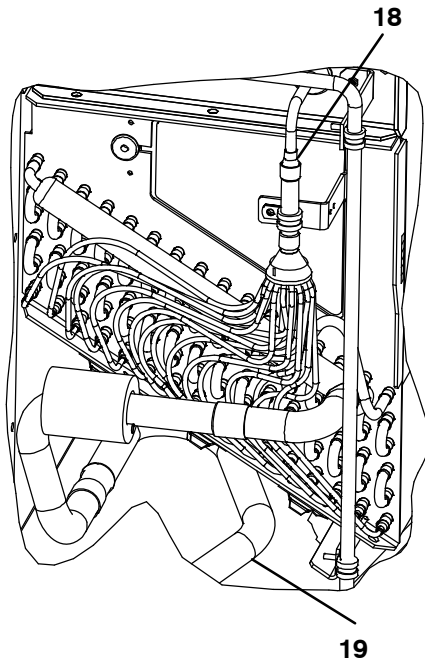
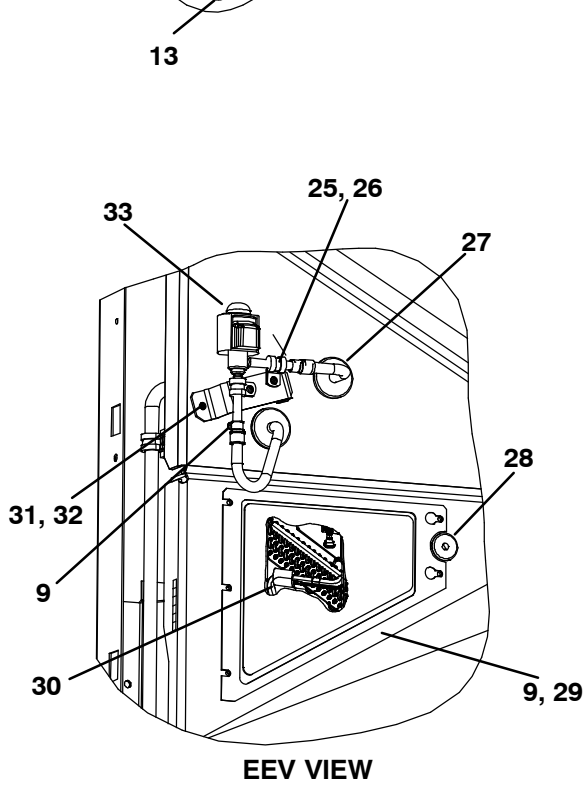
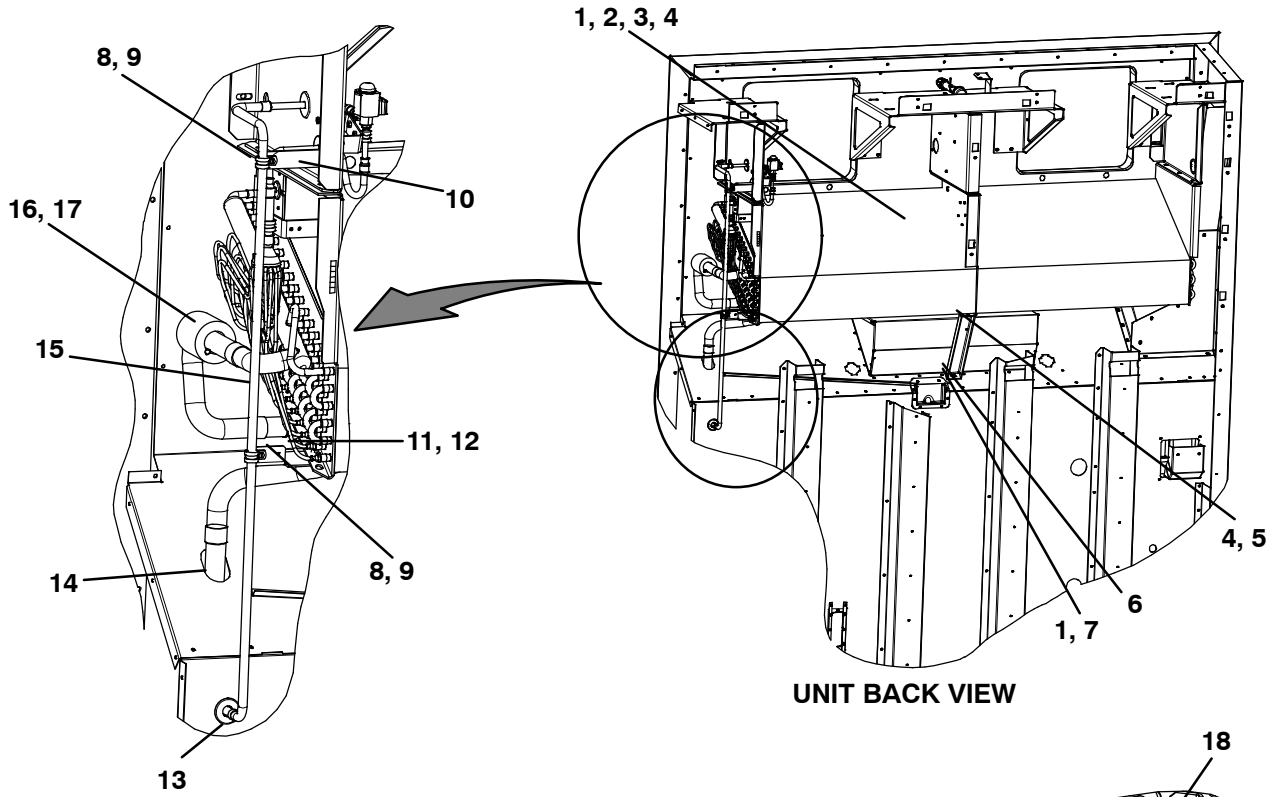
### 1.36 EVAPORATOR FAN ASSEMBLY



77-01287-01

Item	Part Number	Description	Qty
1	69NT43-295	Mounting Bracket, Evaporator Fan Assembly	4
2	69NT35-2692-1	Washer, Fender	4
3	34-00663-11	Washer, Lock, 1/4, SST	4
4	34-00655-08	Screw, Captive, Hex Head, 1/4-20 X 1.00	4
5	66U1-2552-185	Gasket, 0.75 Thick X 1.5 X 16.63	1
6	34-00795-17	Nut, Self-Locking, 5/8-18, SST	2
7	34-00616-06	Washer, Special, 5/8, SST	4
8	38-00599-00	Fan, Evaporator	2
9	34-06165-08	Screw, Hex Head, 1/4-20 X 1.00, SST (Red)	8
10	66U1-5321-3	Washer, Flat, 1/4, SST	8
11	48-00413-01	Stator, Evaporator	2
12	58-04770-00	Protector - Mylar	2
13	54-00615-20	Motor, Evaporator Fan, Three-Phase - Includes:	2
14	04-50029-00	Bearing, Front (Shaft End)	1
15	04-50029-01	Bearing, Back	1
16	22-01997-05	Pin	6
17	22-01997-10	Pin, Grounding	1

**1.37 EVAPORATOR TUBING AND COIL**

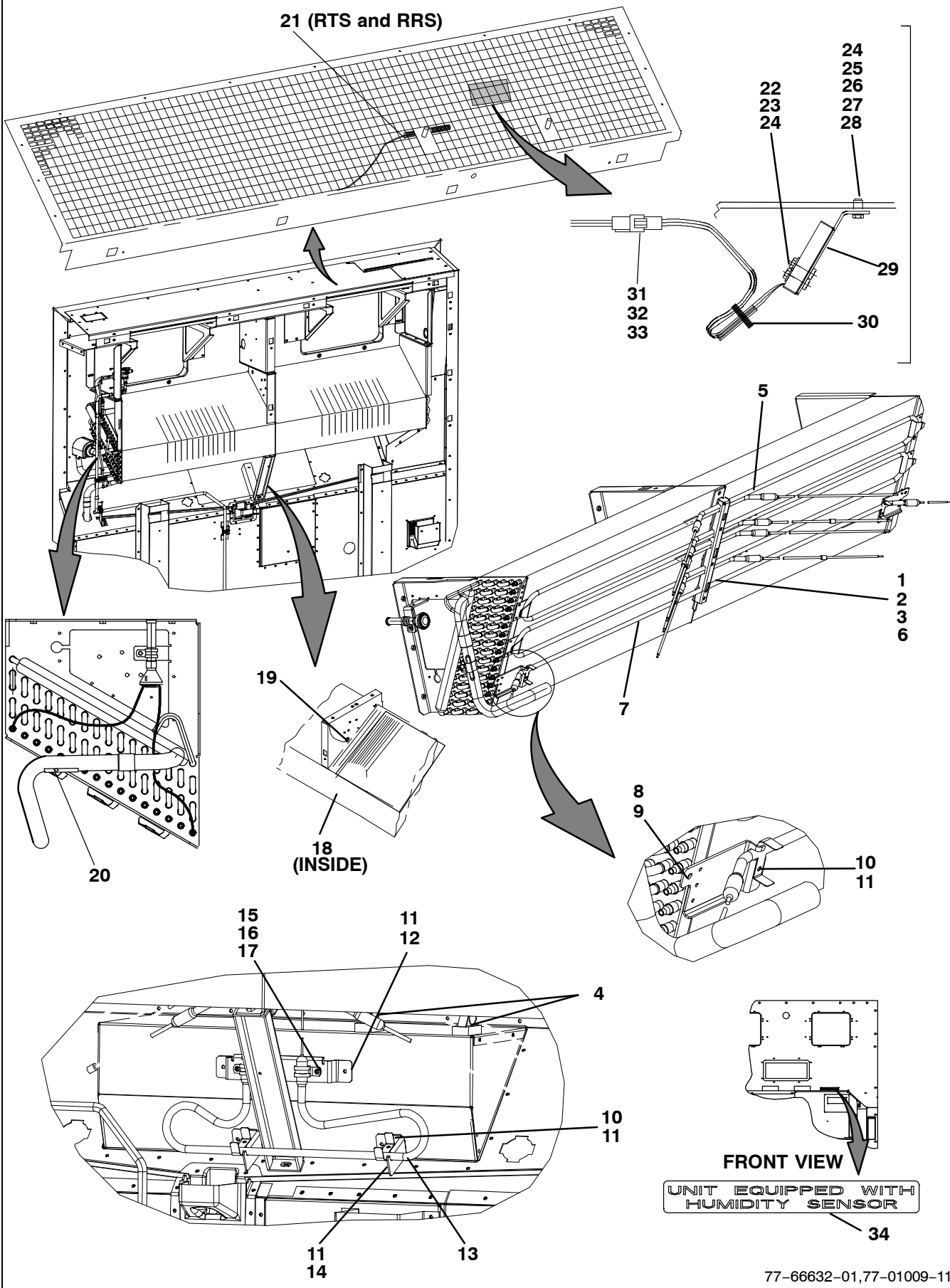


77-01433-04

**1.37 EVAPORATOR TUBING AND COIL (Continued)**

<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	66U1-5321-3	Washer, Plain, 1/4, Type A	10
2	66U1-5361-25	Screw, Cap, Hex Head, 1/4-20 X 0.75	9
3	08-66616-00	Coil Assembly, Evaporator	1
4	34-00663-11	Washer, Lock, 1/4, Spring	10
5	AA06JA166	Screw, Cap Hex Head, 1/4-20 X 0.50	1
6	68-15406-00	Bracket, Support	1
7	66U1-7452-3	Screw, Lag, 1/4-10 X 2, Hex Head	1
8	44-00370-03	Clamp, Cushioned	2
9	66U1-5381-1	Screw, Hex Head, #10-24 X 0.75	8
10	68-86116-00	Bracket	1
11	66U1-5381-3	Screw, Hex Head, #10-24 X 0.63	2
12	68-14890-00	Bracket	1
13	58-00065-56	Grommet	1
14	42-00183-08	Flexible Trim	1
15	56-66726-00	Tube, Liquid	1
16	66U1-3882-3	Wire Tie, 1/16-4 Self-Locking	2
17	42-00425-109	Insulation Tube, Pre-Taped	1
18	40-66629-00	Bushing	1
19	56-08502-01	Tube, Suction	1
20	56-66766-00	Tube, Liquid	1
21	14-00393-00SV	Valve, Evaporator Expansion Valve ( <b>EEV</b> )	1
22	40-66628-03	Coupling 3/8C X 5/16C	2
23	56-66767-00	Tube, Liquid	1
24	14-00176-01	Strainer	1
25	66U1-5371-7	Screw, Machine, Hex Head, 10-24 X 0.50	3
26	34-00373-52	Clamp, Tube	2
27	58-00065-91	Grommet	2
28	58-00065-46	Grommet	1
29	68-14892-00	Plate, Cover	1
30	62-11427-00	Label, Sensors	1
31	66U1-5371-6	Screw, Machine, Hex Head, #10-24 X 0.750	3
32	68-15768-01	Bracket	1
33	14-00393-10	Coil	1

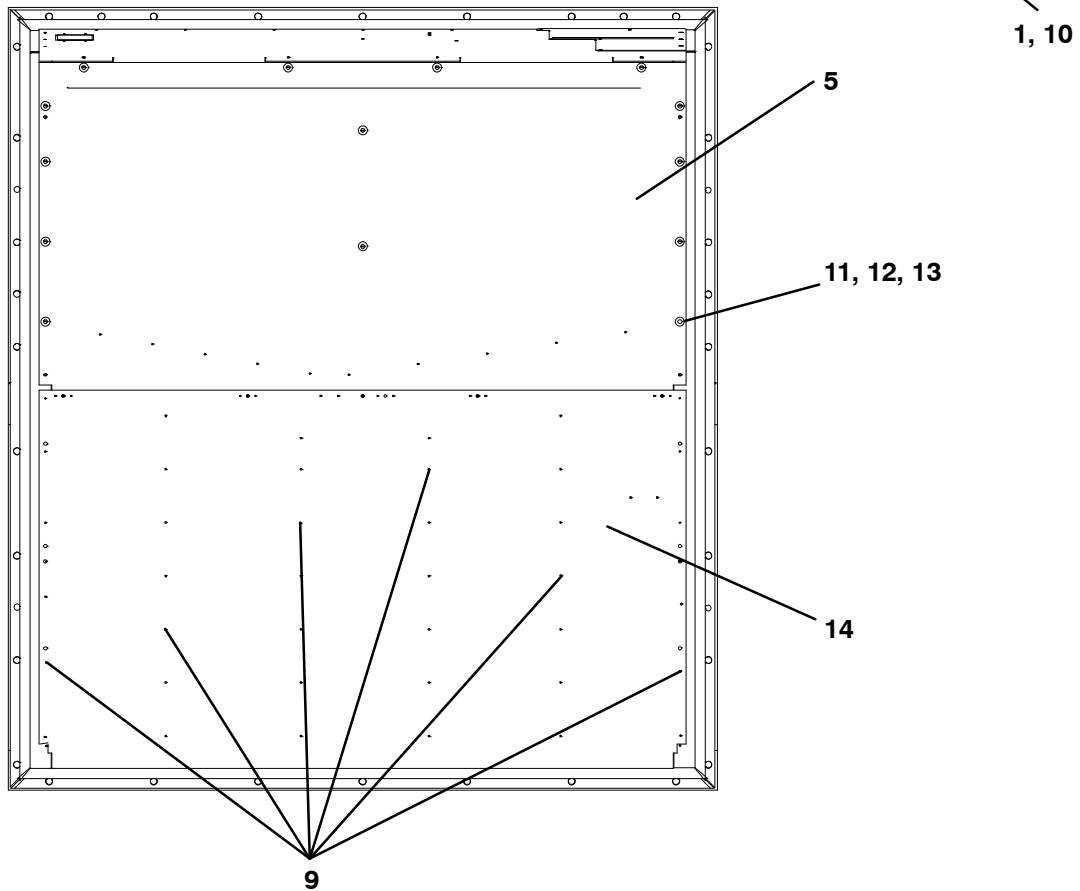
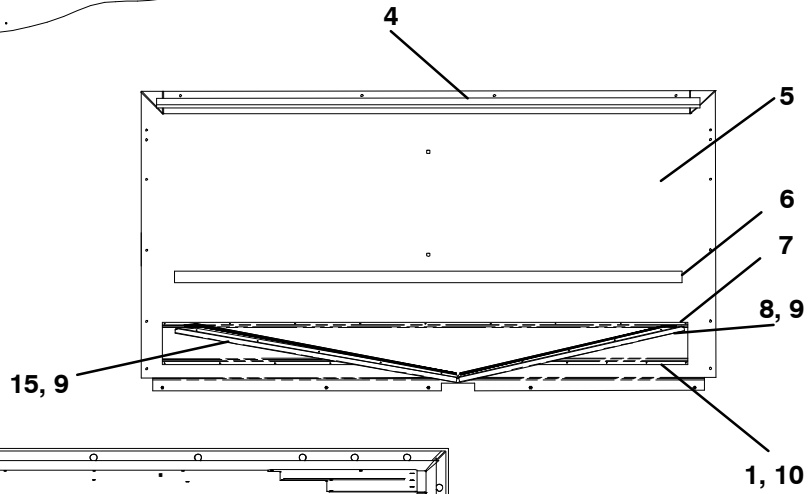
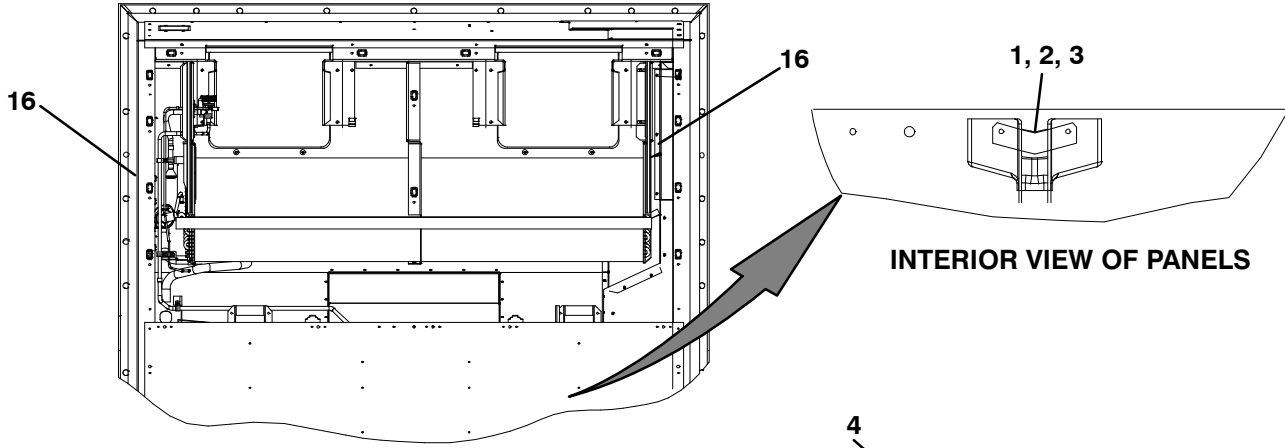
1.38 HEATERS / SENSORS & DEHUMIDIFICATION SYSTEM



77-66632-01,77-01009-11

<b>1.38 HEATERS / SENSORS &amp; DEHUMIDIFICATION SYSTEM (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	69NT35-2692-1	Washer, Fender, 1/4-0.993-1.015 OD	3
2	66U1-5371-13	Screw, Hex Head, #10-24 X 1.25, SST	3
3	34-00663-11	Washer, Flat, 1/4, SST	3
4	44-00361-00	Retaining Clip	2
<b>5 + 1 HEATER SYSTEM</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
5	24-66603-00	Heater Defrost	4
6	68-86090-00	Retainer, 5 + 1 Heater	1
7	24-66606-00	Heater Straight	1
8	66U1-3882	Wire Tie, 1/16 - 1 3/4 Inch Self-locking	2
9	58-04315-00	Base, Mounting, 0.250 Diameter Mounting Hole	2
10	69NT-35-2732	Clip	4
11	34-00928-07	Rivet, Blind	10
12	68-86099-00	Bracket, 5 + 1 Heater, Upper	1
13	24-66605-00	Heater Omega	1
14	68-86100-00	Bracket, 5 + 1 Heater, Lower	2
15	34-00373-07	Clamp, Tube, 0.62 Diameter Cushion	2
16	66U1-5371-7	Screw, Machine Hex Head 10-24 X 0.5	2
17	66U1-5321-8	Washer, Plain 10 Type A	2
<b>SENSORS</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
18	12-00170-08	Thermostat, Heat Termination <b>(HTT)</b> - SEE ALSO SECTION 1.40	1
19	12-00495-02SV	Sensor, Thermistor, Defrost <b>(DTS)</b> - SEE ALSO SECTION 1.40	1
20	12-00500-01SV	Sensor, Evaporator <b>(ETS1 and ETS2)</b>	1
21	12-00500-01SV	Sensor Assembly <b>(RTS and RRS)</b> - SEE ALSO SECTION 1.40	1
<b>DEHUMIDIFICATION SYSTEM</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
22	12-00686-00	Sensor, Humidity <b>(HS)</b>	1
23	66U1-5371-10	Screw, Hex Head, #10-24 X 1.00, SST	4
24	66U1-5321-8	Washer, Flat, #10, SST	4
25	AU27JR131	Washer, Lock	2
26	34-06051-32	Rivnut, 10-24	2
27	66U1-5371-7	Screw, Machine, Hex Head 10-24 X 0.5	2
28	66U1-5321-7	Washer, Plain, 1/4 Type A	2
29	68-13181-01	Bracket Assembly, Humidity Sensor	1
30	66U1-3882	Wire Tie, 1/16-1-3/4, Self-Locking	1
31	22-01613-06	Plug, 3-Pin	1
32	22-01613-07	Lock, Secondary, 3-Pin	1
33	22-01613-13	Contact, Socket, #16	3
34	69NT35-3907	Label, Humidity Sensor	1

**1.39 BACK PANEL ASSEMBLY – ALUMINUM BOLTED / 5+1 HEATER ARRANGEMENT**

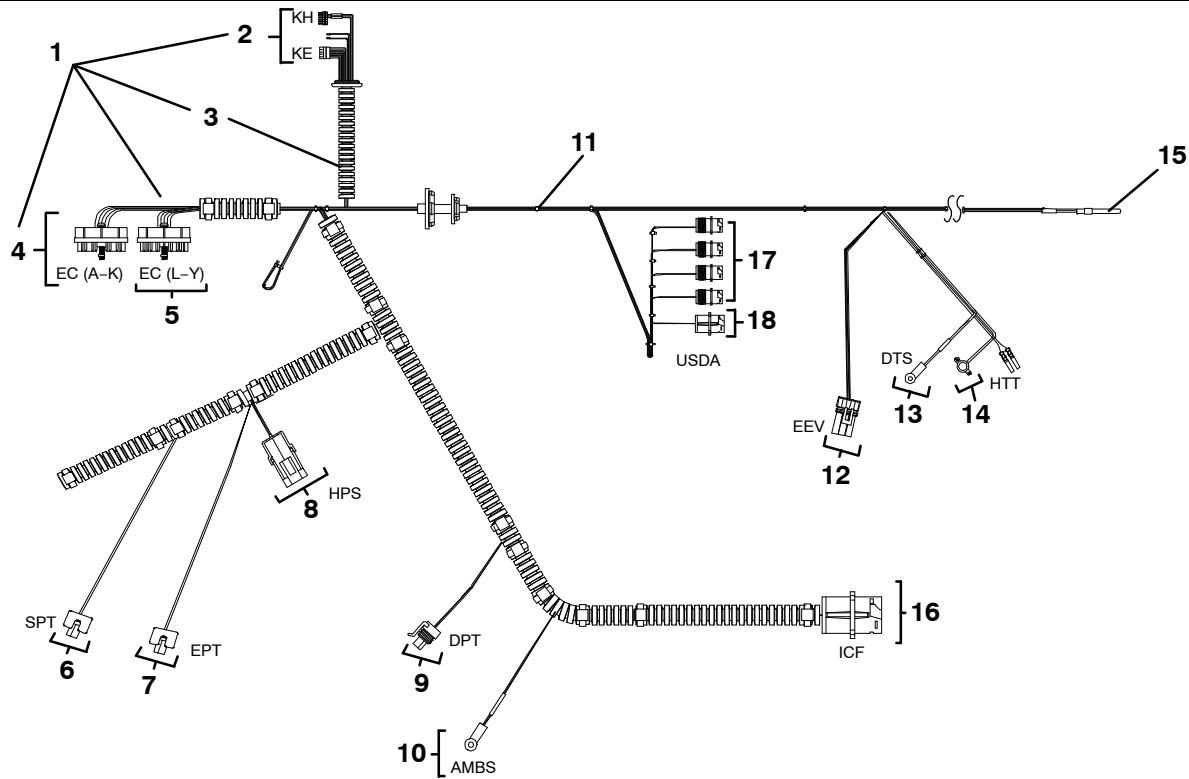


77-66633-00



<b>1.39 BACK PANEL ASSEMBLY – ALUMINUM BOLTED / 5+1 HEATER ARRANGEMENT (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	34-00928-03	Rivet, Blind	19
2	42-66625-00	Gasket Drain	1
3	86-66709-00	Drain Cup	1
4	42-00334-00	Gasket	1
5	68-86092-00	Panel Assembly	1
6	42-00174-34	Gasket	1
7	42-00174-101	Gasket	2
8	68-15425-00	Channel	1
9	34-00928-02	Rivet, Blind	50
10	68-86080-01	Standoff 5+1 Heater	1
11	69NT35-2692	Washer, Fender	19
12	66U1-2403	Screw, Machine	19
13	66U1-7982-2	Rivet	4
14	68-14046-00	Panel, Back	1
15	68-15426-00	Channel	1
16	66U1-2593-24	Gasket	2

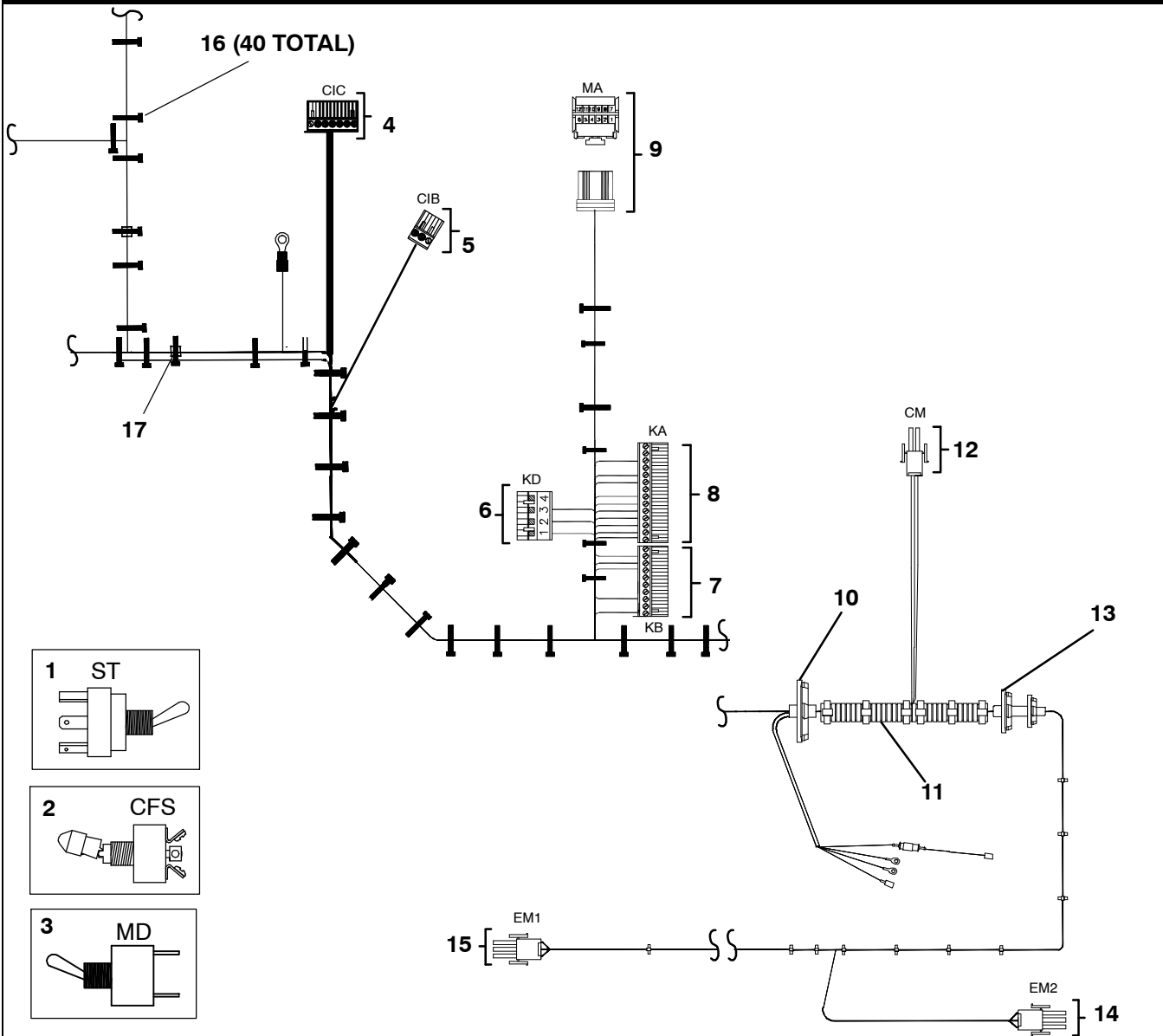
# 1.40 HARNESS – LOW VOLTAGE



Item	Part Number	Description	Qty
	22-66663-00	Harness, Low Voltage – Includes:	
1	22-01829-38	Harness (KH – KE – EC) – Includes:	1
2		KH – Includes:	
	22-04016-00	Connector	1
	33-01735-00	Terminal	2
		KE – Includes:	
	22-04031-01	Connector	1
	22-04032-00	Terminal	5
3	58-00850-00	Tube, Slit 1 Inch OD X 75 Feet	1
4		EC (A-K) – Includes:	
	22-01777-06	Seal	1
	22-01777-07	Retainer	1
	66U1-6651-24	Screw, Pan Head, 10-24 X 1.50 Inch Long, SST	1
	22-01777-00	Connector	1
	22-01777-03	Terminal	21
	22-01777-02	Seal	4
5		EC (L-Y) – Includes:	
	22-01777-06	Seal	1
	77-01777-07	Retainer	1
	66U1-6651-24	Screw, Pan Head, 10-24 X 1.50 Inch Long, SST	1
	22-01777-01	Connector	1
	22-01777-03	Terminal	23
6		Suction Pressure Transducer (SPT) – Includes:	
	22-01944-00	Connector	1
	22-01944-10	Gasket	1
	22-01944-05	Cap	1
	22-01777-03	Terminal	3

<b>1.40 HARNESS – LOW VOLTAGE (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
7		Evaporator Pressure Transducer <b>(EPT)</b> – Includes:	
	22-01944-00	Connector	1
	22-01944-10	Gasket	1
	22-01944-05	Cap	1
	22-01777-03	Terminal	3
8		High Pressure Switch <b>(HPS)</b> – Includes:	
	22-02392-00	Connector	1
	22-02393-01	Terminal	2
	22-02394-04	Cable Seal	2
9		Discharge Pressure Transducer <b>(DPT)</b> – Includes:	
	22-02448-00	Connector	1
	22-01777-03	Terminal	3
10	12-00765-00	Thermistor, Ambient <b>(AMBS)</b>	1
11	66U1-3882	Wire Tie, 1/16-1 3/4, Self-Locking	A/R
12		Electronic Expansion Valve <b>(EEV)</b> – Includes:	
	22-01835-00	Connector	1
	22-01566-01	Terminal	5
	22-02394-02	Cable Seal	5
13	12-00495-02SV	Thermistor, Defrost <b>(DTS)</b>	1
14	12-00170-08	Thermistor, Evaporator Defrost <b>(HTT)</b>	1
15	12-00500-01SV	Thermistor, Combo/Return <b>(RTS/RRS)</b>	1
16		ICF – Includes:	
	22-01660-03	Connector	1
	22-01613-14	Terminal	5
17		USDA – Includes:	
	22-01660-00	Connector	4
	22-01613-12	Terminal	8
	22-01614-06	Plug	4
18		USDA – Includes:	
	22-01660-03	Connector	1
	22-01613-12	Terminal	5

# 1.41 HARNESS – HIGH VOLTAGE

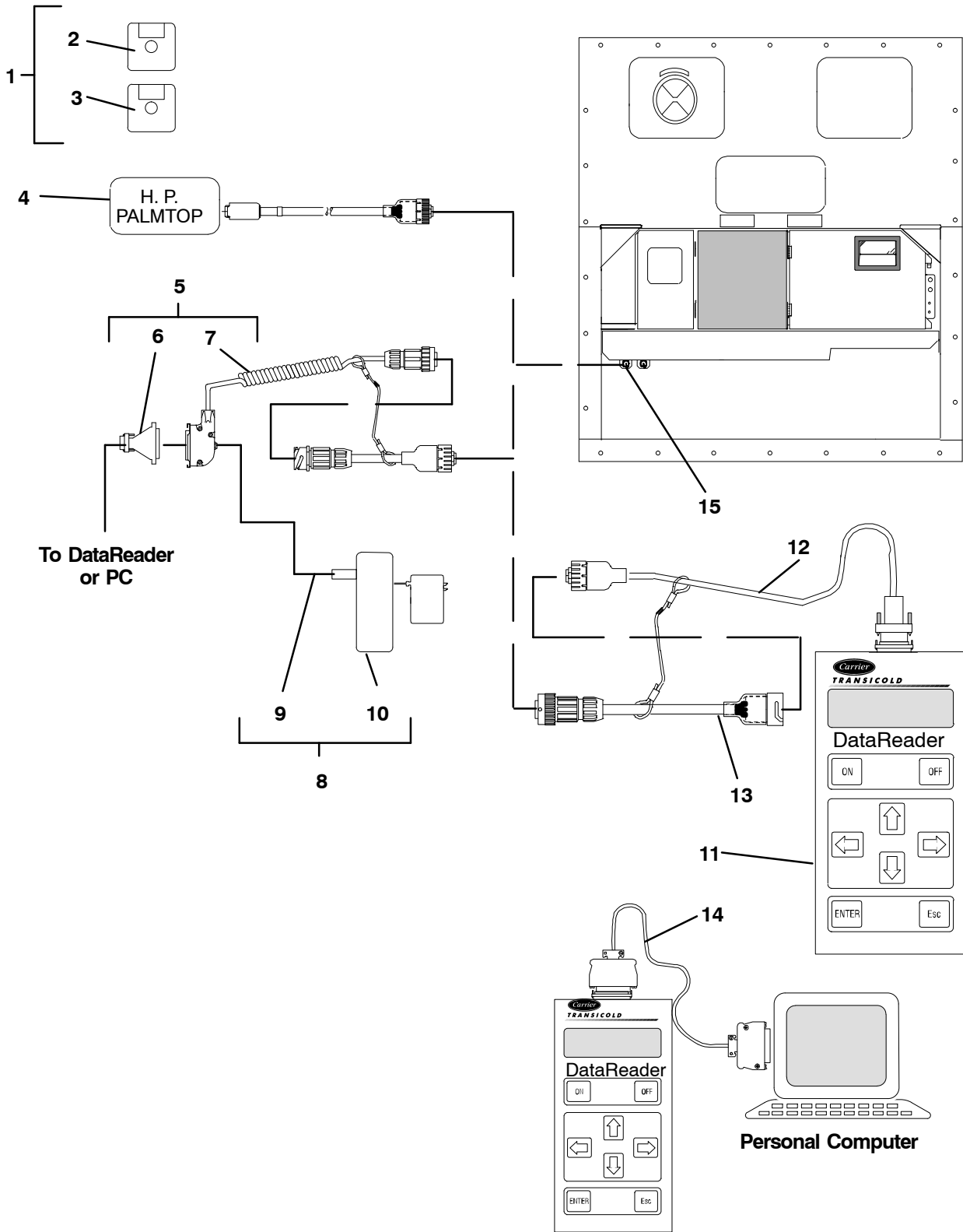


Item	Part Number	Description	Qty
1	10-01129-11	Switch, Toggle, Start/Stop (ST)	1
2	10-01129-05	Switch, Toggle, Condenser Fan Switch (CFS)	1
3	10-01129-10	Switch, Toggle, Manual Defrost (MD)	1
	91-66620-00	High Voltage Harness – Includes:	
4		<b>CIC</b> – Includes:	
	22-01556-06	Connector Interface, CIC	1
	22-02324-09	Terminal	3
5		<b>CIB</b> – Includes:	
	22-01556-04	Connector Interface, CIB	1
	22-01735-00	Terminal	3

<b>1.41 HARNESS – HIGH VOLTAGE (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
6		<b>KD</b> – Includes:	
	22-04031-00	Connector, KD	1
	22-04032-00	Terminal	4
7		<b>KB</b> – Includes:	
	22-01556-01	Connector, KB	1
	22-01735-00	Terminal	5
8		<b>KA</b> – Includes:	
	22-01556-02	Connector, KA	1
	22-01735-00	Terminal	10
9		<b>MA</b> – Includes:	
	22-01622-01	Connector, MA	1
	22-01622-03	Terminal	5
10	58-04291-01	Grommet, Rubber	1
11	58-00850-20	Wire Cover	1
12		<b>Condenser Fan Motor (CM)</b> – Includes:	
	22-01997-12	Plug CM	1
	22-01997-06	Terminal	4
	22-01997-08	Sealing Plug	3
	22-01997-13	Wire Seal	1
	22-01997-14	Interface Seal	1
13	58-04291-00	Grommet, Rubber	1
14		<b>Evaporator Fan Motor 2 (EM2)</b> – Includes:	
	22-01197-20	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		<b>Evaporator Fan Motor 1 (EM1)</b> – Includes:	
	22-01997-20	Plug, EM1	1
	22-01997-06	Terminal	5
	22-01997-08	Sealing Plug	2
	22-01997-21	Wire Seal	1
	22-01997-22	Interface Seal	1
16	66U1-3882-4	Wire Tie	40
17	66U1-3882	Wire Tie	2

## 2 INTERROGATOR ACCESSORIES

### 2.1 DATALINE/DATAREADER



<b>2.1 DATALINE/DATAREADER (Continued)</b>			
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	07-00406-00	Disk Kit, DataLine ( <b>SEE NOTE</b> ) – Includes:	1
2	12-00413-05SV	Software, DataLine <b>NSS</b>	1
3	12-00528-00	Software, DataLine (Scroll) <b>NSS</b>	1
4	22-01737-02	Cable, H. P. PalmTop	1
5	76-50059-00	Kit, Cable, With Adapter – Includes:	1
6	22-02418-02	Cable, Interrogator	1
7	22-02420-00	Adapter	1
8	76-50058-00	Kit, Battery, With Cable – Includes:	1
9	NSS	Battery, External, With Battery Charger	1
10	22-02401-00	Cable	1
11	No Longer Offered	DataReader	–
12	22-01737-00	Cable, Download	1
13	22-01737-01	Cable, Adapter	1
14	22-01743-00	Cable, Upload	1
15	–	Receptacle	–
<p><b>NOTE</b></p> <p>Kit includes a 3.5 DS/HD Diskette, Formatted. If a DS/DD Diskette is required, contact a Customer Service Representative.</p>			

<b>3 TOOLS</b>	
<b>PART NO.</b>	<b>DESCRIPTION</b>
07-00176-11	Vacuum Pump, Dual Voltage/Dual Frequency
07-00375-00	Stepper Motor Drive Tester
07-00408-00	Stepper Jumper Assembly
07-00462-00	Temperature Tester, 4-Lead
07-00477-00	Inspection Mirror
07-00228-00	Multimeter, Digital
07-00229-00	Amprobe Clamp ( <b>Used with 07-00228-00</b> )
07-00238-00	Wrench, Service Valve
07-00243-10	Multimeter, Digital ( <b>Fluke</b> )
07-00277-00	Kit, Static Dissipative (Used for Working on Electronic Components)
07-00304-00	Ground Strap, Wrist (Used for Working on Electronic Components)
07-00294-00	Gauge Set, Manifold - <b>Fahrenheit/PSI</b>
07-00294-05	Gauge Set, Manifold - <b>Centigrade/KPa</b>
07-00295-00	Detector, Leak
07-00397-03	Extractor, Pin (Used on Fan Motor Plugs and Interrogator Plugs)
07-00397-02	Crimper, Pin (Used on Fan Motor Plugs and Interrogator Plugs)
07-00329-00	Extractor, Pin (Used on Controller Module Connectors)
07-00330-00	Crimper, Pin (Used on Controller Module Connectors)
07-00391-00	Application Gun (Used with 07-00390-00)
07-00398-00	Software Card Programmer
07-00409-00	1-1/8 Inch, 3/8 Inch Drive, Used on Economizer Valve
07-00410-00	1-3/8 Inch, 3/8 Inch Drive, Used on Suction/Discharge Valve
07-00418-00	Torx Driver Bit
<b>Refer to Manual 62-03213</b>	



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