



Container Refrigeration



PARTS LIST MANUAL

For

PrimeLINE with EDGE

69NT40-561-300 to 399

Container Refrigeration Units



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SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The Carrier Transicold model 69NT40-561-300-399 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. Control system power 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 operates 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.

1.2 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

1.3 FEATURE DESCRIPTIONS

1.3.1 Control Box

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

1.3.2 Temperature Readout

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

1.3.3 Pressure Readout

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

1.3.4 Compressor

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

1.3.5 Condenser Coil

The unit is fitted with a two-row square formed condenser coil using 7mm tubing

1.3.6 Evaporator

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

1.3.7 Evaporator Fan Operation

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

1.3.8 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.

1.4 OPTION DESCRIPTIONS

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

1.4.1 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 location or in a secure location.

1.4.2 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.

1.4.3 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.

1.4.4 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).

1.4.5 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.

1.4.6 Quest - CCPC

Compressor-Cycle Perishable Cooling (CCPC) is a method of temperature control used during steady-state perishable cooling that cycles the compressor on and off according to supply / return air temperature conditions.

1.4.7 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.

1.4.8 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.

1.4.9 Gutters

Rain gutters may be fitted over the control box and recorder section to divert rain away from the controls.

1.4.10 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.

1.4.11 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.

1.4.12 Water Cooling

The refrigeration system may be provisioned for a water-cooled condenser.

1.4.13 Back Panels

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

1.4.14 460 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.

1.4.15 230 Volt Cable

Units equipped with an autotransformer require an additional power cable for connection to the 230 volt source. Various power cable and plug designs are available. The plug options tailor the cables to each customer's requirements.

1.4.16 Cable Restraint

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

1.4.17 Upper Air (Fresh Air Make Up)

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.

1.4.18 Lower Air (Fresh Air Make Up)

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

1.4.19 Labels

Safety Instruction and Function Code listing labels differ, depending on the options installed. Labels available with additional languages are listed in the parts list.

1.4.20 Controller

Two replacement controllers are available:

1. Re-manufactured - Controller is the equivalent of a new OEM controller and is supplied with a 12-month warranty.
2. Repaired - Controller has had previous faults repaired and upgraded with the latest software.

Note: Repaired controllers are NOT to be used for warranty repairs; only full OEM Re-manufactured controllers are to be used. Controllers will be factory-equipped with the latest version of operational software, but will NOT be configured for a specific model number and will need to be configured at the time of installation or sale.

1.4.21 Condenser Grille

Condenser grilles are direct bolted.

1.4.22 Emergency Bypass

The optional Emergency Bypass switch (EB) functions to bypass the controller in the event of controller failure.

1.4.23 eAutoFresh

The optional eAutoFresh venting system moderates the atmospheric level inside the container unit in response to cargo respiration.

1.4.24 Controlled Atmosphere

Units may be fitted with the TransFresh option. For information on the TransFresh system, contact TransFresh Corporation, P.O. Box 1788, Salinas, CA 93902.

1.5 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

1.6 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

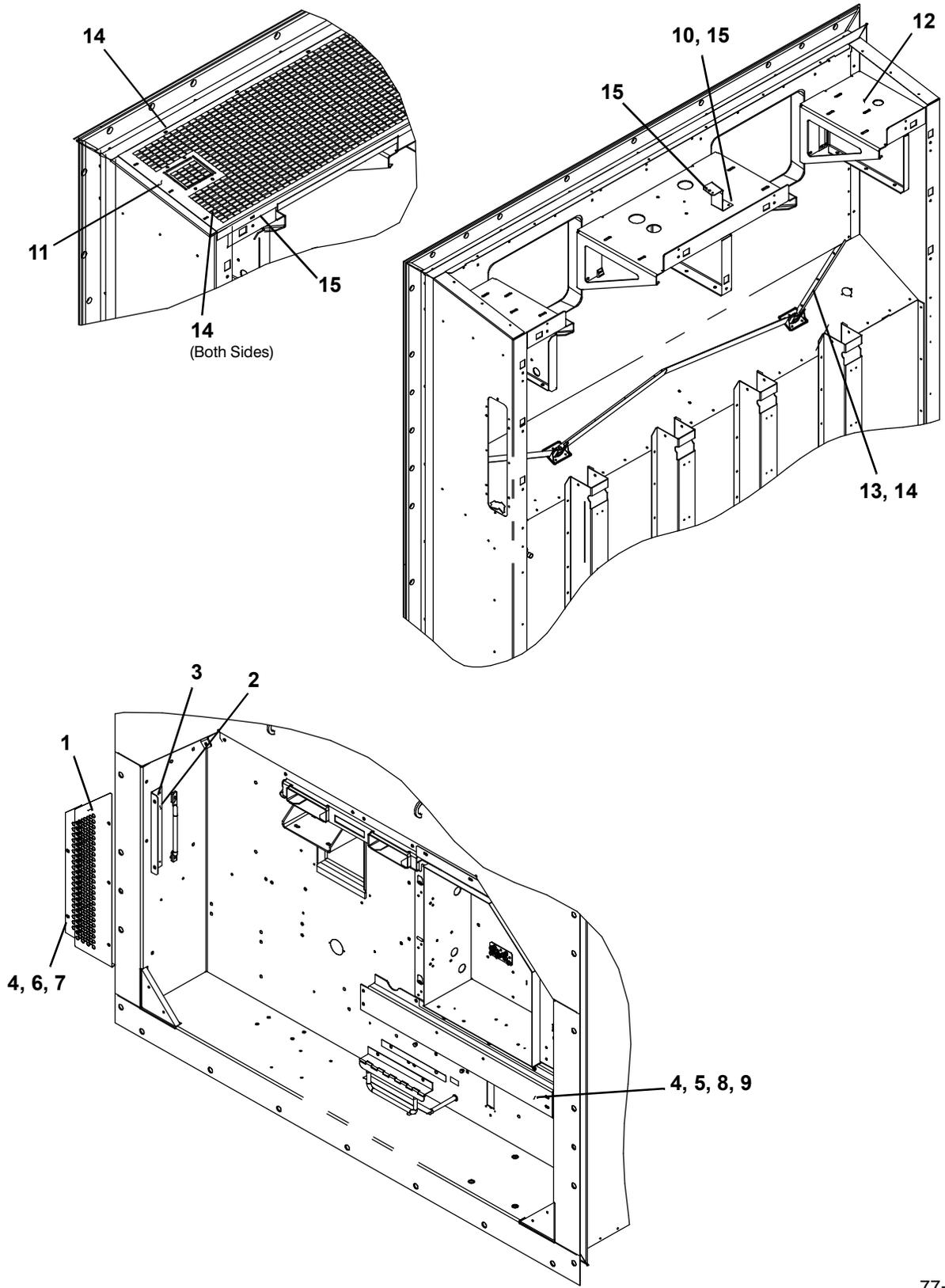
PID = Parts Identification Number - essential to identify unit configuration.

PL = Purchase Locally

SST = Stainless Steel - 300 Series unless otherwise specified.

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

2 Lower Air Exchange



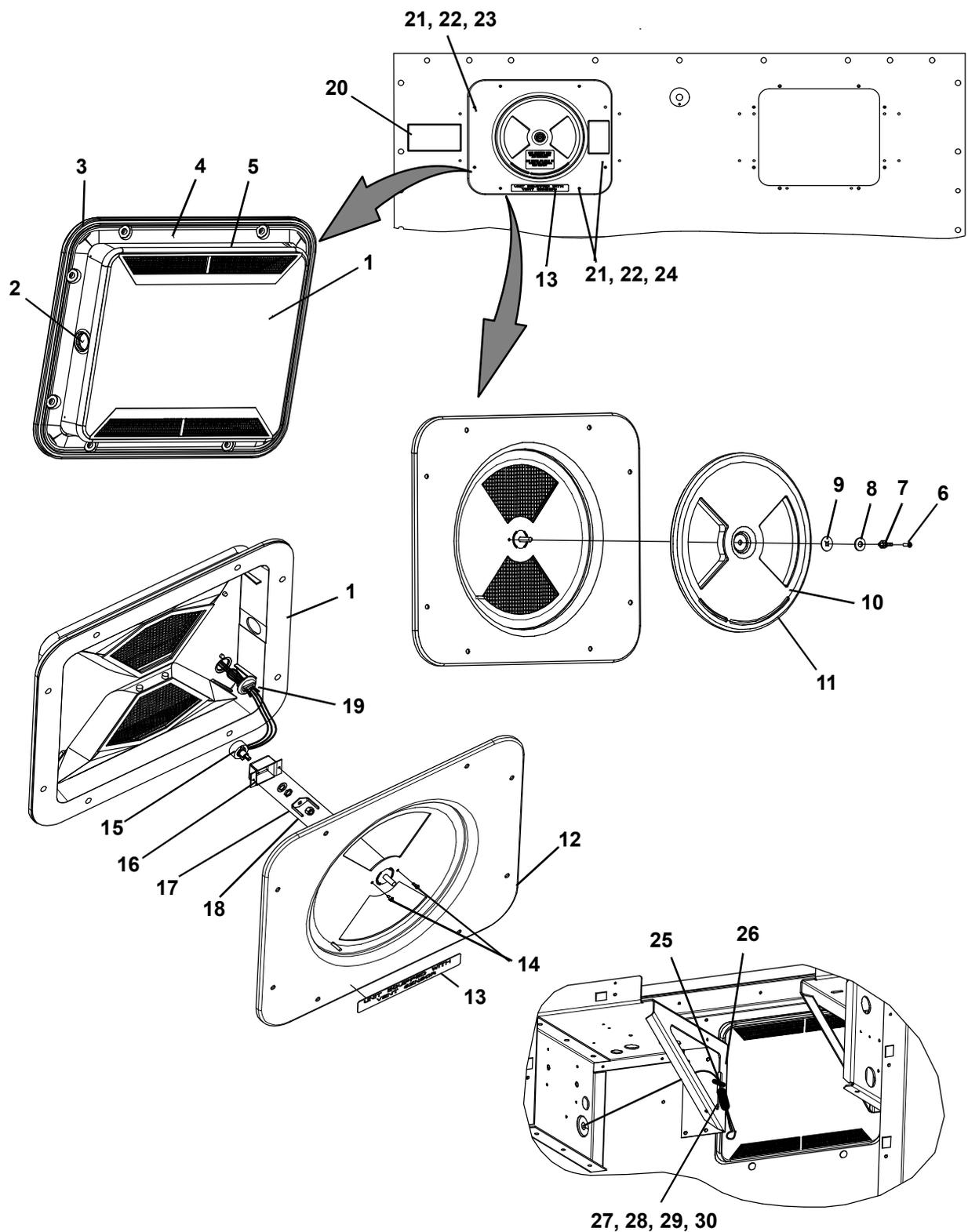
77-01677

2 Lower Air Exchange

Item	Part Number	Description	Qty
1	68-17037-01	Panel White	1
2	68-17118-00	Bracket	1
3	34-00928-20	Rivet, Blind	2
4	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	9
5	68-17129-01	Cover, White	1
6	34-06053-18	Washer, Retaining .250 ID X 1.000 OD	4
7	66-U---1--5321-3	Washer, Plain 1/4 N Type A	5
8	66-U---1--5321-7	Washer, Plain 1/4 W Type A	2
9	34-06053-00	Washer .250 ID X .800 OD	4
10	68-16521-00	Bracket	1
11	68-16695-00	Grille	1
12	68-16697-00	Fan Deck	1
13	68-17188-00	Gutter	1
14	34-00928-07	Rivet, Blind	16
15	34-00928-09	Rivet, Blind	8

77-01677-01

3 Upper Fresh Air - VPS Panel



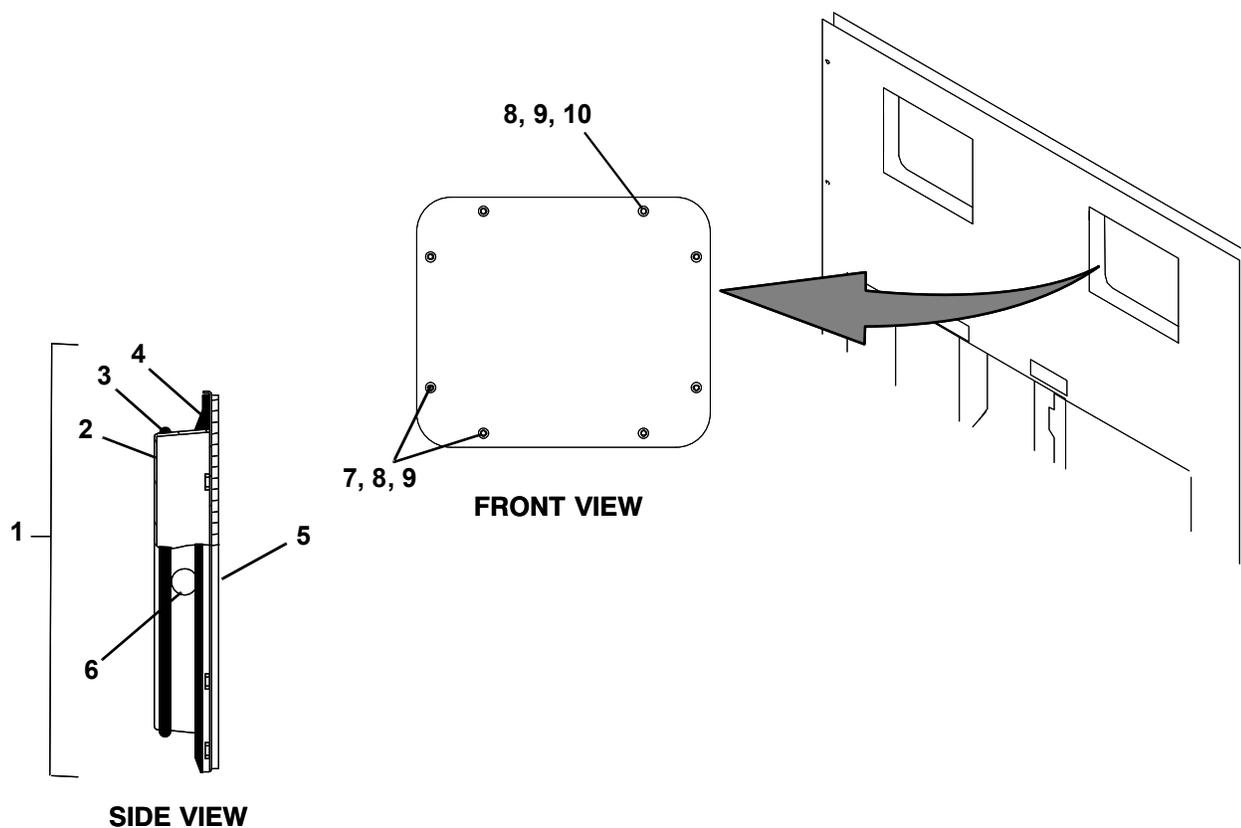
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3 Upper Fresh Air - VPS Panel

Item	Part Number	Description	Qty
1	79-66626-00	Upper Air Panel Assembly, Access, White - Includes:	1
2	66-U---1--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	66-U---1--5362-2	Nut, Wing, 5/16-18, SST	1
8	66-U---1--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	62-10930-00	Label VPS	1
	76-66615-00	Upper VPS Sensor Replacement Includes:	1
14	34-00928-20	Rivet	2
	79-66703-00	Sensor Kit Includes:	2
15	12-00603-02	Sensor Rotary Position	2
16	68-14815-00	Bracket, Sensor .063 Thick Aluminum	2
17	68-14903-00	Plate	1
18	34-66622-05	Nut, Self Lock	2
NS	58-66646-00	Plate	2
19	22-66681-00	Wire Harness Resettable Fuse Assembly	2
20	62-66723-00	Label Fresh Air	1
21	34-06053-13	Washer, Mylar, 1/4 ID X 0.80 OD	8
22	34-06212-12	Washer, Flat, 1/4, SST	8
23	34-00655-08	Screw, Hex Head, 1/4-20 X 1.00 Inch Long	6
24	34-06154-00	Screw, Hex Head, 1/4-20 X 1.00 Inch Long - TIR	2
25	66CH---1--1172-2	Trim, Flexible 2.00 Inches Long	1
26	58-00969-00	Wire Tie 2.80 Inch Diameter, Double Loop	1
27	22-01613-10	Plug, 4-Pin	1
28	22-01613-13	Contact, Socket #16	3
29	22-01613-11	Lock, 4-Pin - Secondary	1
30	22-01660-08	Plug, 0.12 Inch Diameter X 0.58	1

77-01658-33

4 Upper Fresh Air - Blank Panel

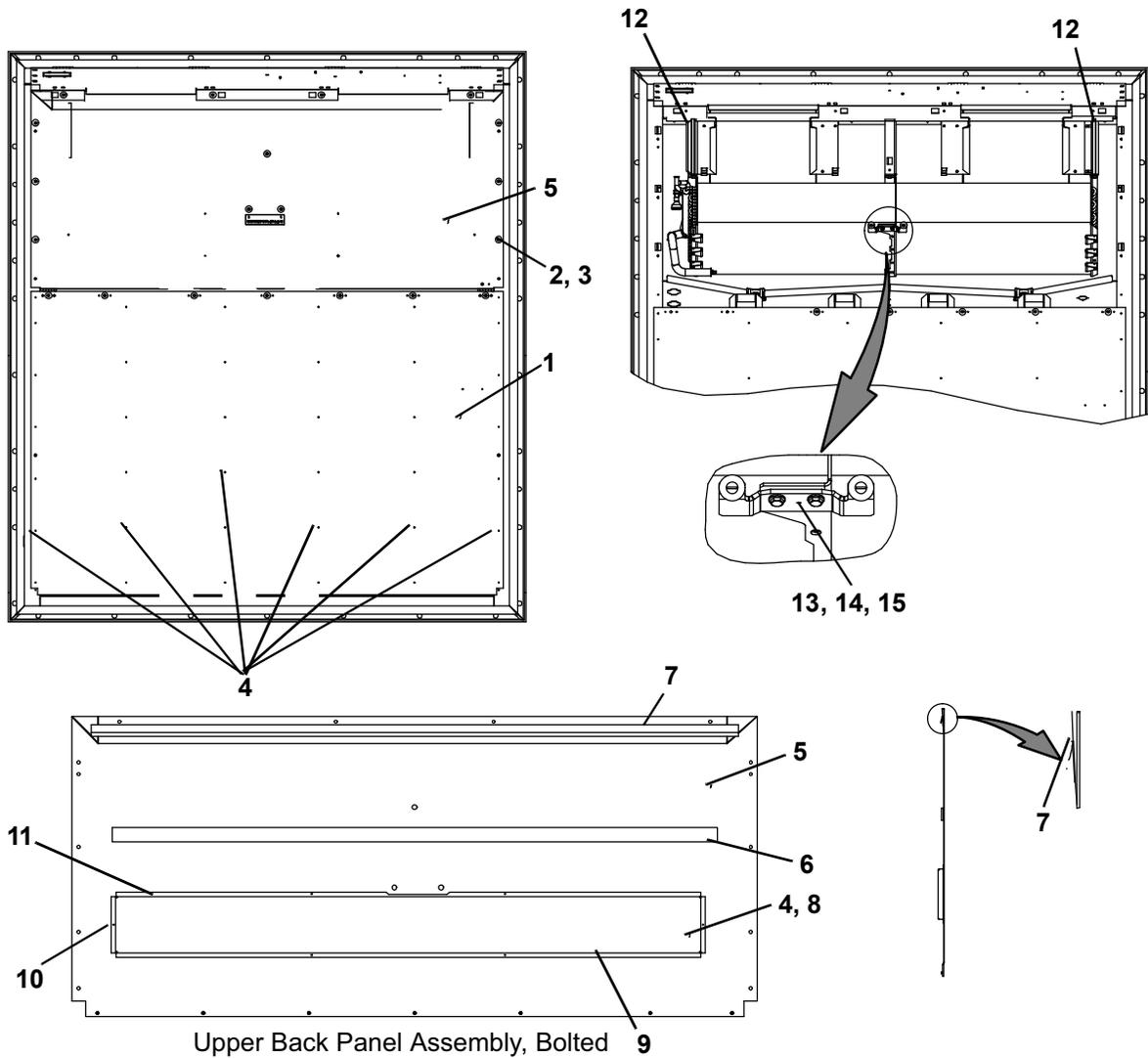


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Item	Part Number	Description	Qty
1	79-01697-06SV	Panel Assembly, Access, Evaporator, White - Includes:	A/R
2	58-04378-01	Panel, Access	1
3	42-00327-00	Gasket, 0.26 X 0.50 Half-Round	1
4	42-00296-01	Gasket, Evaporator Access Panel	1
5	68-11989-00	Cover, Top, Evaporator Access Panel, White	A/R
6	66-U---1--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

77-01114-07

5 Back Panel Assembly

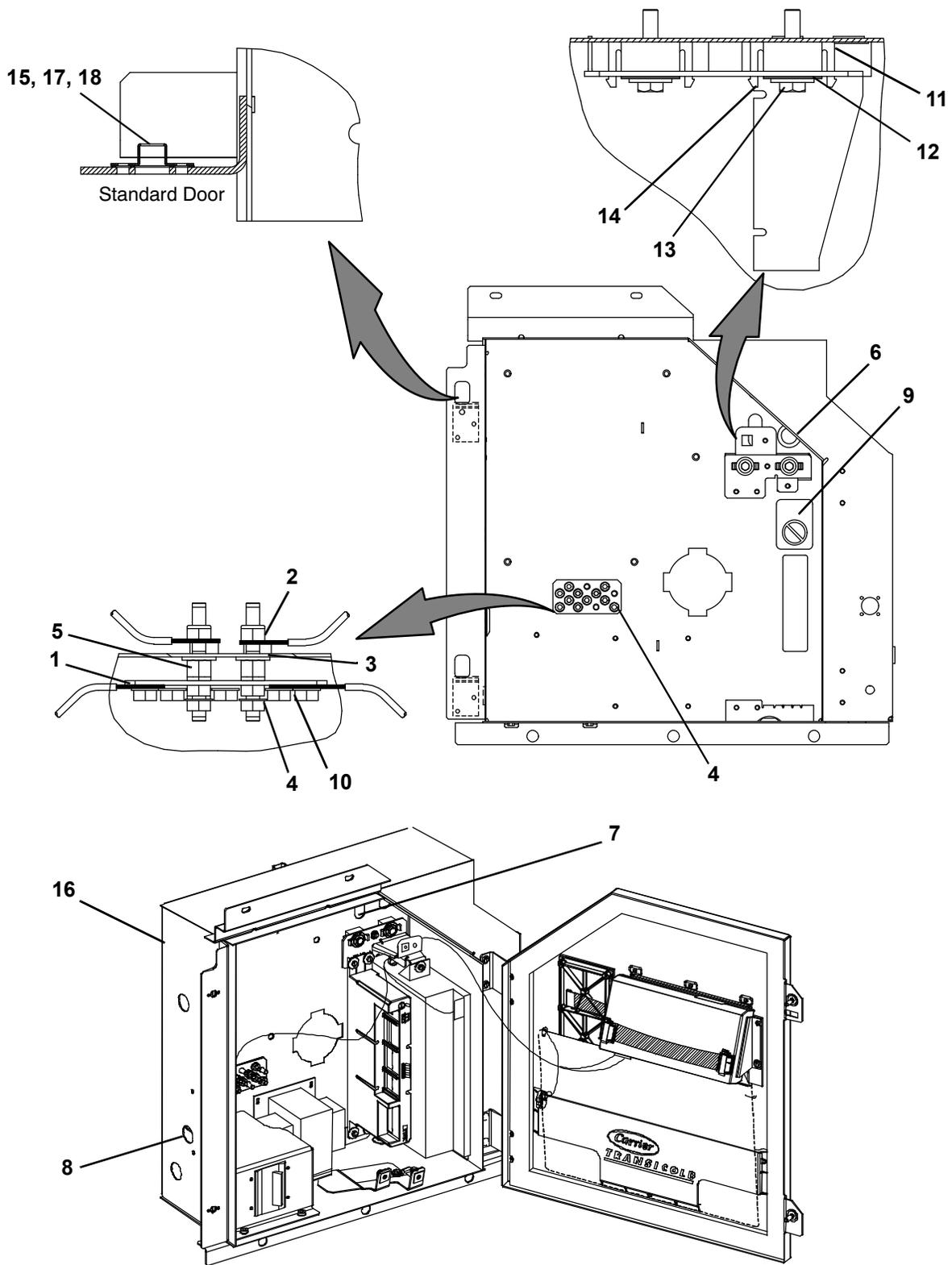


77-01710

Item	Part Number	Description	Qty
1	68-17361-00	Panel, Back	1
2	69NT--35--2692	Washer, Fender #10	20
3	66-U---1--2403	Screw, Machine Trhd #10-24 X 0.500	20
	79-04045-00	Upper Back Panel Assembly Includes:	
4	34-00928-20	Rivet, Blind	6
5	68-17293-00	Panel Assembly, Back	1
6	42-00174-34	Gasket	1
7	42-00334-00	Gasket	1
8	68-17337-00	Shield, Heat	1
9	42-00174-110	Gasket	1
10	42-00174-111	Gasket	2
11	42-00174-116	Gasket	1
12	66-U---1--2593-4	Gasket	2
13	34-00655-04	Screw, Cap Hex Head 1/4-20 X 0.50	2
14	66-U---1--5321-3	Washer, Plain 1/4 N Type A	2
15	68-17175-00	Bracket	1

77-01710-00, 01

6 Box Prep Kit

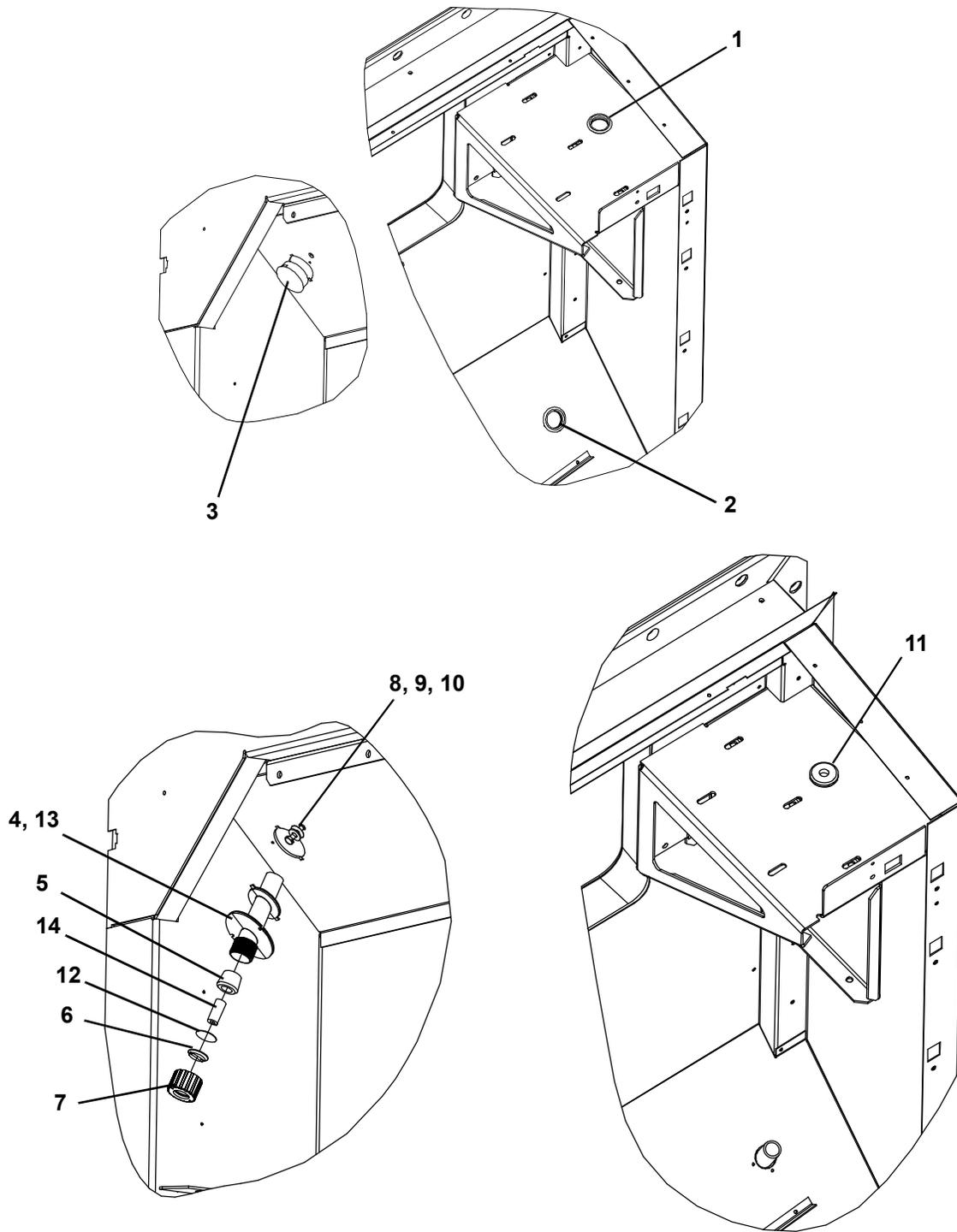


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6 Box Prep Kit

Item	Part Number	Description	Qty
BOX PREP KIT, COMMON PARTS			
1	68-86230-00	Strap Assembly Ground, All Populated	1
2	34-00667-11	Nut, Self Lock	2
3	66-U---1--5321-3	Washer, Plain 1/4 N Type A	2
4	AT39JA171	Nut, Hex	13
5	66-U---1--9592-13	Standoff 1/4-20 X 0.375	2
6	58-00701-03	Plug, Button	3
7	58-04680-00	Plug, Button	1
8	66-U---1--5562-7	Plug, Button	1
9	62-10911-00	Label, Warning MI3 Only !	1
10	AU27JR171	Washer, Lock 1/4	11
11	58-00967-00	Spacer Locking	2
12	66-U---1--5321-7	Washer, Plain 1/4 W Type A	2
13	34-00655-10	Screw, Cap Hex Head 1/4-20 X 1.25	2
14	34-06053-03	Washer .250 ID X 1.000 OD	4
BOX PREP KIT, STANDARD PARTS			
15	34-01142-01	Receptacle	2
16	86-05003-00	Control Box	1
17	58-04026-32	Protector	2
18	34-00928-01	Rivet, Blind	2
77-01693-00, 01			

7 Bulkhead Penetration - Upper Air Exchange

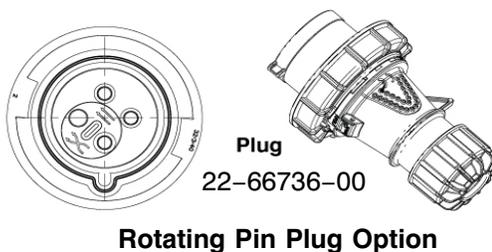
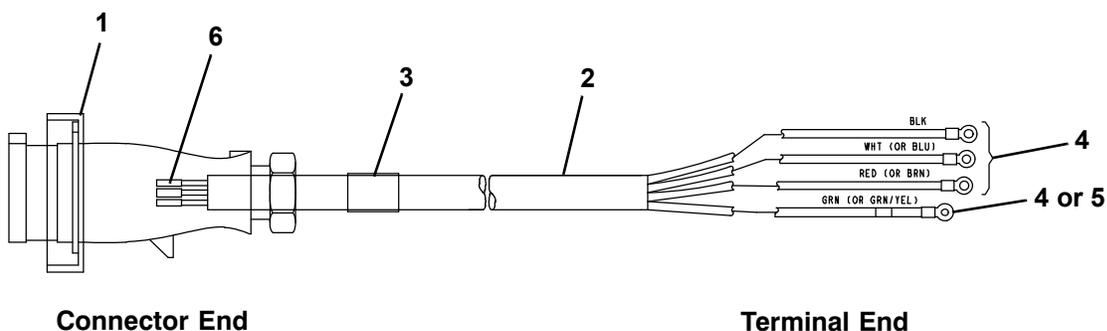


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7 Bulkhead Penetration - Upper Air Exchange

Item	Part Number	Description	Qty
NO TRANSFRESH			
1	66-U---1--5562-12	Plug, Button 1.25 Diameter Hole	1
2	66-U---1--5562-2	Plug, Button 1.25 Diameter Hole	1
3	58-00616-00	Plug, Hole 2.00 Diameter X .12	1
BULKHEAD PROVISION			
4	58-04290-01	Fitting Bulkhead	1
5	22-01602-02	Bushing	1
6	22-01602-03	Ring	1
7	22-01733-01	Nut	1
8	34-06154-03	Screw, Cap Hex Head 1/4-20 X 1.00	1
9	34-06053-00	Washer .250 ID X .800 OD	1
10	66-U---1--5321-7	Washer, Plain 1/4 W Type A	1
11	66-U---1--5562-12	Plug, Button	1
12	69NT--35--8258	Disc	1
13	34-00928-20	Rivet, Blind .1	5
14	58-04302-01	Grommet	1
TRANSFRESH INSTALLED			
4	58-04290-01	Fitting Bulkhead	1
5	22-01602-02	Bushing	1
6	22-01602-03	Ring	1
7	22-01733-01	Nut	1
8	34-06154-03	Screw, Cap Hex Head 1/4-20 X 1.00	1
9	34-06053-00	Washer .250 ID X .800 OD	1
10	66-U---1--5321-7	Washer, Plain 1/4 W Type A	1
11	66-U---1--1571-14	Grommet	1
13	34-00928-20	Rivet, Blind	5
14	58-04302-01	Grommet	1
77-01208-00, 03, 04			

8 Cable Assembly

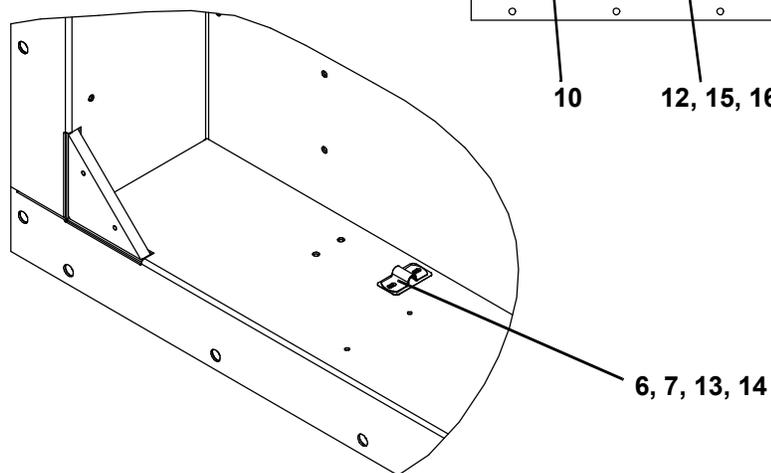
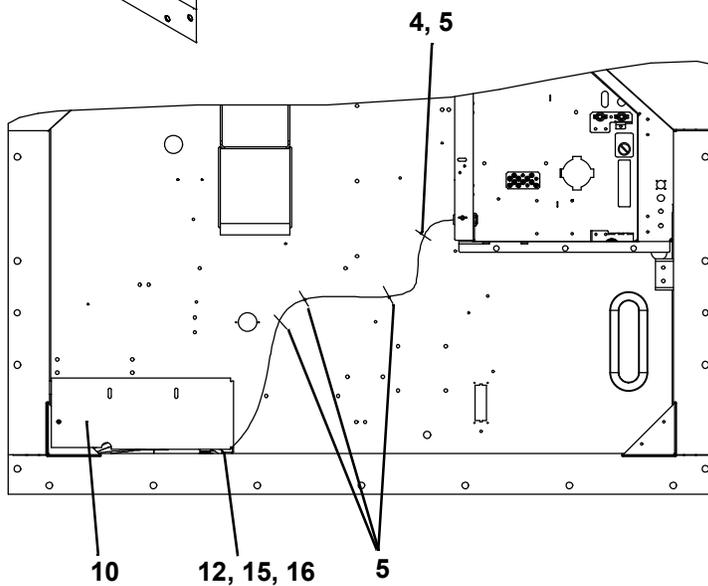
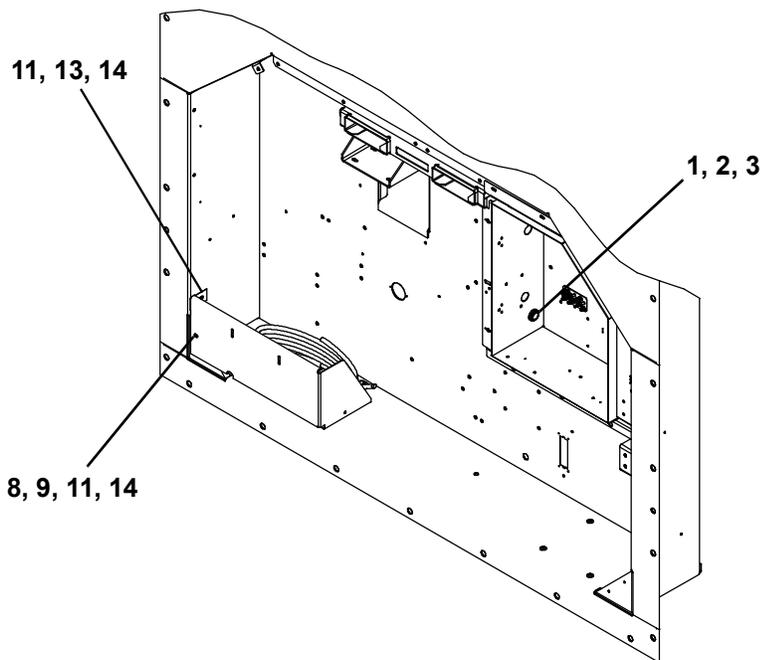


22-01879

Item	Part Number	Description	Qty
460V CABLE ASSEMBLY			
1	22-02378-00	Plug 4 Pole, 440V	1
2	22-66651-12	Cable Transicord Flexline - 6.3 ft	1
	22-66651-10	Cable Transicord Flexline - 67 ft	1
3	66-U---1--2583	Tube, Heat Shrink	1
4	22-00119-03	Terminal	3
5	22-00119-04	Terminal, Ring	1
6	22-02324-01	Bushing	4
230V CABLE ASSEMBLY			
1	66-U---1--6782	Plug	1
2	22-01879-50	Cable Transicord Flexline	1
ROTATING PIN PLUG OPTION			
1	22-66736-00	Rotating Pin Plug	1

22-01879-33, 31, 05

9 Cable Kit



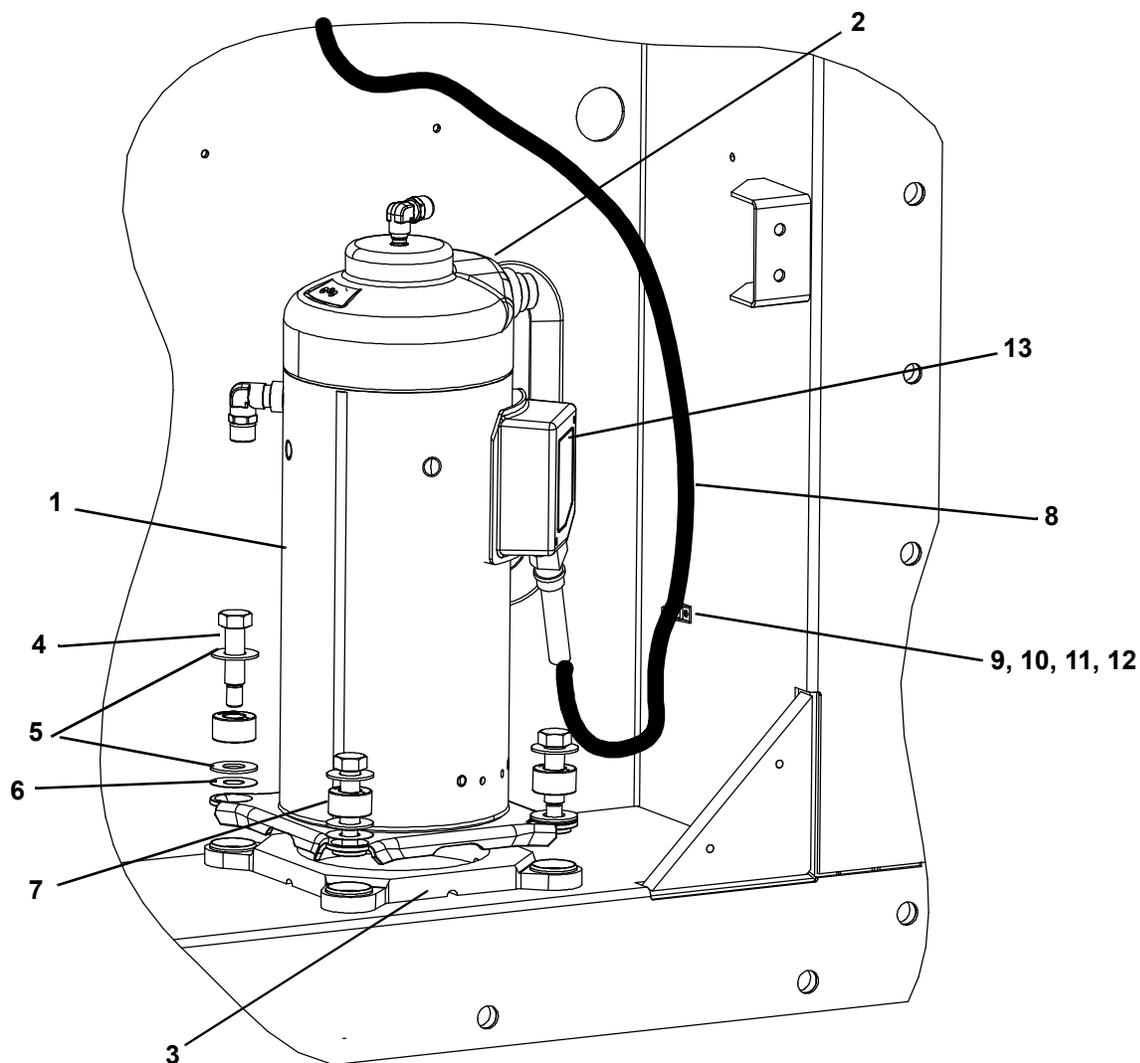
77-01695

9 Cable Kit

Item	Part Number	Description	Qty
1	66-U---1--7352-3	Connector Straight, Watertight	1
2	34-06136-01	Nut, Lock 3/4" Npt	1
3	66-U---1--1251-2	O-Ring	1
4	58-04316-00	Base, Mounting	1
5	66-U---1--3882	Wire Tie	3
6	68-14456-01	Cable Clamp Cable Cutter 16 Ga.	1
7	58-04026-07	Protector	1
8	66-U---1--5361-11	Screw, Cap Hex Head 1/4-20 X 1.50	2
9	34-00667-11	Nut, Self Lock	1
10	68-17131-00	Guard	1
11	34-06053-00	Washer .250 ID X .800 OD	10
12	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	2
13	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	8
14	66-U---1--5321-7	Washer, Plain 1/4 W Type A	5
15	66-U---1--5321-8	Washer, Plain #10 Type A	2
16	34-06053-05	Washer	2

77-01695-00, 02

10 Compressor Assembly

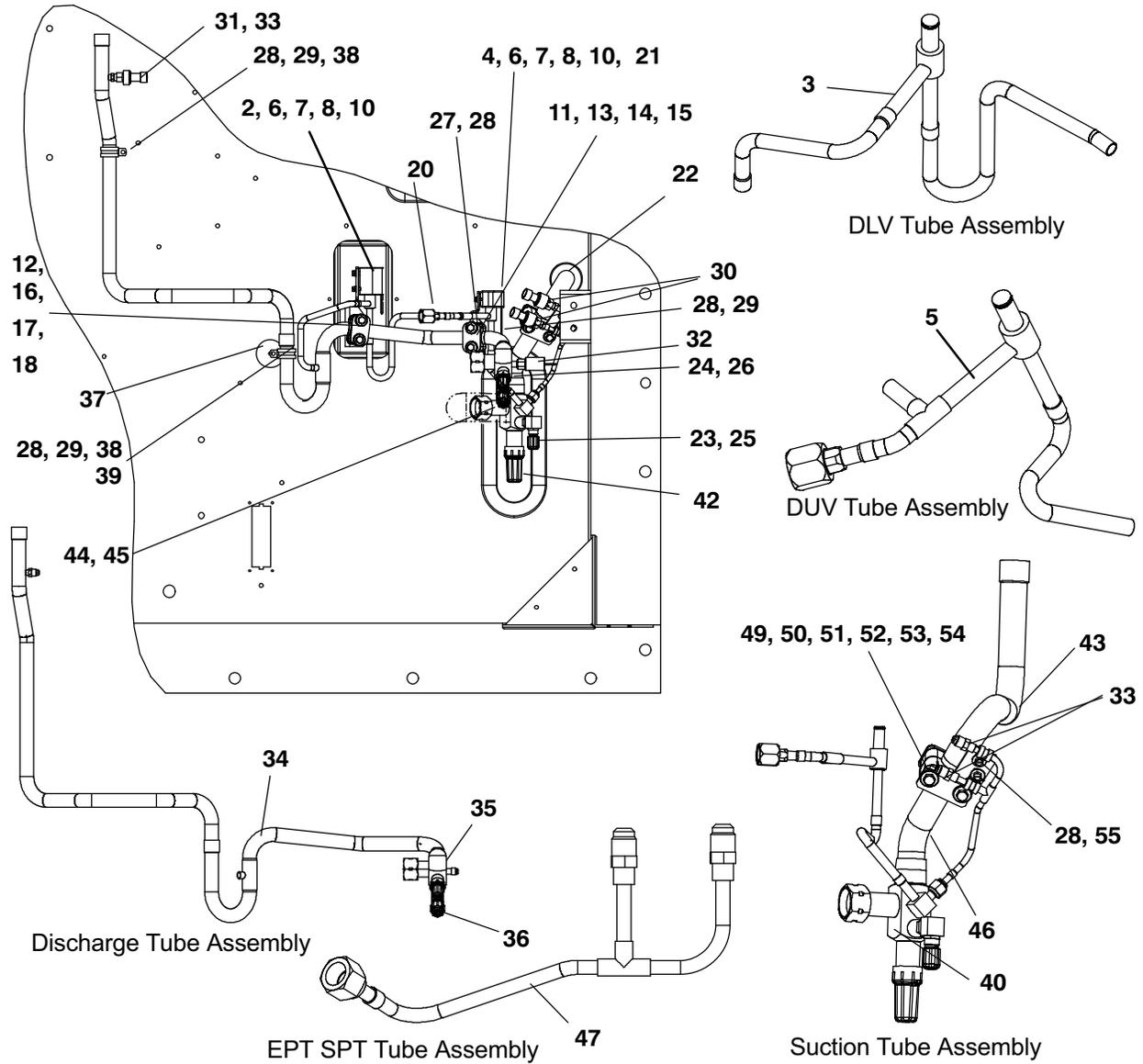


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Item	Part Number	Description	Qty
1	18-10165-20	Compressor, Scroll - Includes:	1
	42-00384-02	Seal, Rotalock, 1 1/4-12	2
2	12-00653-00	Sensor, Compressor Discharge Temperature (CPDS)	1
3	58-04821-00	Base Assembly	1
4	34-06277-02	Bolt, Shoulder 1/2-13	4
5	34-06236-00	Washer .687 X 1.500 X .078	8
6	34-06053-20	Washer .65 ID X 1.50 OD	4
7	58-04791-01	Mount, Resilient	4
8	22-04128-01	Cable	1
9	66-U---1--3882	Wire Tie	1
10	58-04246-00	Ty-Rap Base	1
11	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	1
12	34-00663-09	Washer, Lock #10 Spring	1
13	18-10136-30	Cover	1

77-01683-00

11 Compressor Tubing



77-01714

Item	Part Number	Description	Qty
1	76-00816-00	Transducer, Service (EPT) (SPT)	1
	22-01713-46	Wire Harness Transducer Service	1
	66-U---1--3803	Tube Heat Shrink	1
2	14-00361-01	Coil Kit, Solenoid (DUV)	1
	14-00361-10	Coil	1
	14-00361-11	Spacer	1
	14-00361-12	Plain Washer	1
	14-00361-13	Spring Washer	1
	14-00361-14	Screw	1
3	76-00866-01	Discharge Loader Valve (DLV) Kit	1
	81-04226-00	Tube Assembly/Valve Body	1
	40-00091-03	Coupling	2

11 Compressor Tubing

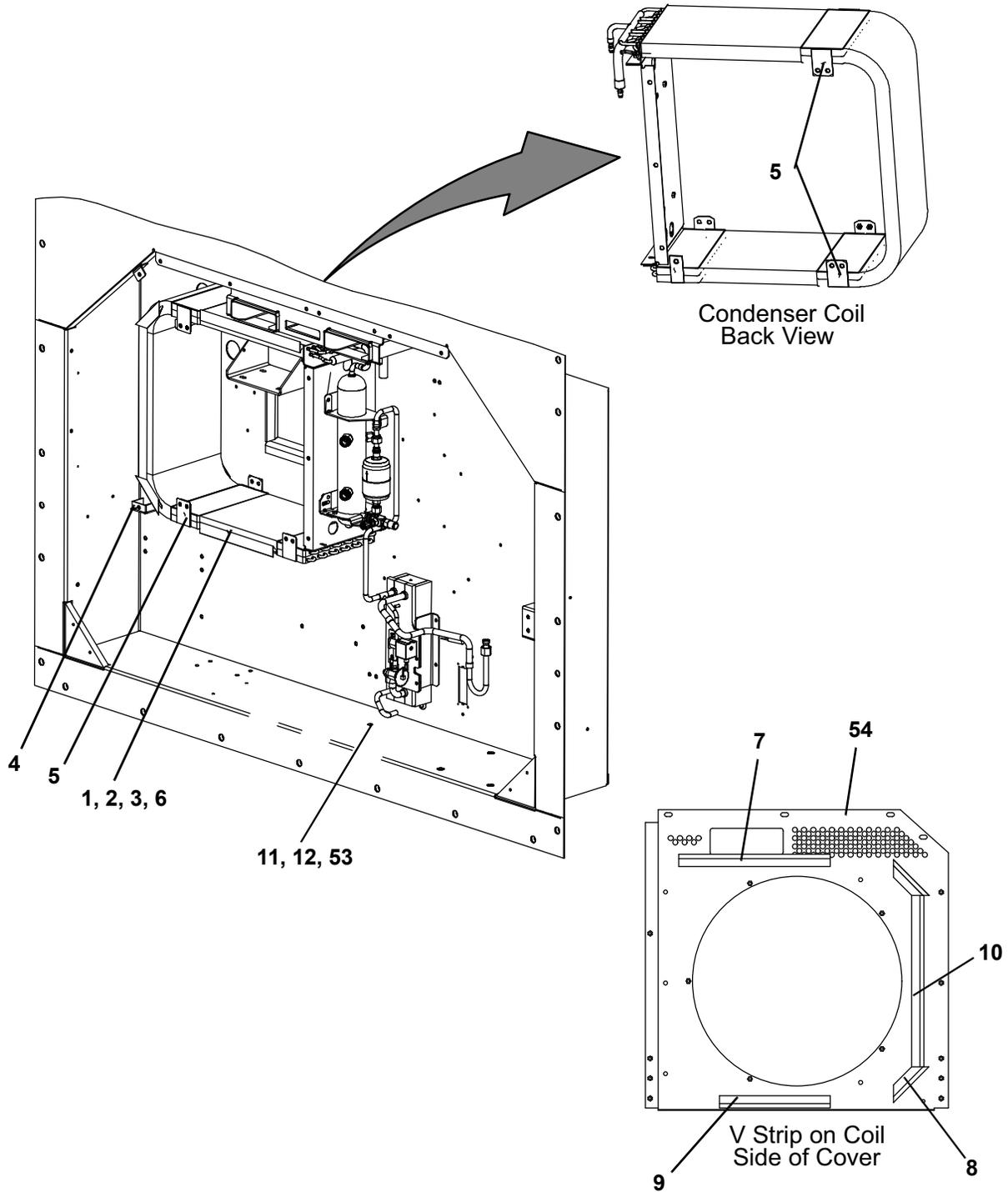
	44-01043-07	Wire Ties	6
4	14-00361-02	Coil Kit, Solenoid (DUV)	1
	14-00361-17	Coil	1
	14-00361-09	Screw	1
5	76-00866-00	Discharge Unloader Valve (DUV) Kit	1
	81-04230-00	Tube Assembly/Valve Body	1
	40-00091-03	Coupling	2
	44-01043-07	Wire Ties	6
	42-00243-12	O-Ring	1
6	68-17368-00	Bracket	2
7	34-00655-16	Screw, Cap Hex Head ¼-20 x 2.00	4
8	34-06053-00	Washer, .250 Inner Diameter x .800 Outer Diameter	6
9	66-U---1--5321-7	Washer, Plain ¼ W Type A	6
10	44-00285-57	Clamp, Tube ⅜ OD	2
11	86-05052-00	Bracket, Weld	1
12	86-05054-00	Bracket, Weld	1
13	34-01146-04	Washer, Lock, M4 Spring	2
14	34-00662-08	Washer, Plain, #8 Medium, 032 Thick	2
15	34-06367-00	Screw, Hex Head M4 x 10MM	2
16	34-01146-05	Washer, Lock, M5 Spring	2
17	34-00662-09	Washer, Plain, #10 Medium, 032 Thick	2
18	34-06368-00	Screw, Hex Head M5 x 10MM	2
19	79-04070-00	Discharge Tube	1
20	42-00243-12	O-Ring	1
21	66-U---1--3803	Tube, Heat Shrink	4
22	58-00065-95	Grommet	1
23	40-00542-00	Elbow Adapter Low Press	1
24	40-00542-01	Elbow Adapter High Press	1
25	40-00520-02	Cap	1
26	40-00520-03	Cap	1
27	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	3
28	34-06053-05	Washer	4
29	66-U---1--3632-20	Clamp, Tube	2
30	76-00816-00	Transducer, SPT, EPT	2
31	12-00352-00	Transducer, DPT	1
32	12-00309-05	High Pressure Switch, 350/250 Psig	1
33	EC39DM070	Core Check Valve	3
34	79-04070-00	Tube, Discharge 7/8 OD X 0.045	1
35	40-00583-05	Valve, Service 7/8 ID, Rotalock	1
36	40-00583-20	Valve Cap	1
37	34-06295-04	Washer, Fender #10-1.690-2.000 OD	1
38	66-U---1--5371-10	Screw, Machine Hex Head #10-24 X 1.00	1

11 Compressor Tubing

39	68-15532-00	Bracket .090 Thick Aluminum	1
40	76-00818-01 (PID < NT2750)	Valve, Service 1 1/8 ID, Rotalock	1
	76-66649-00 (PID >= NT2750)	Valve, Service 1 1/8 ID, Rotalock	1
41	56-09063-00	Tube, Suction 1-1/8 OD X 0.05	1
42	40-00665-21	Service Cap	1
43	42-00425-131	Insulation, Tube Pre-Taped	1
44	42-00425-112	Insulation, Tube Pre-Taped	1
45	66-U---1--3882-3	Wire Tie	2
46	42-00425-140	Insulation, Tube Pre-Taped	1
47	74-66663-01 (PID < NT2750)	Tube Assembly:	1
	79-04051-01 (PID >=NT2750)	Tube Assembly:	1
	81-04212-01	Tube	1
48	EC39DM070	Valve Core	2
49	68-15997-00	Bracket	1
50	44-00285-54	Clamp, Tube 1-1/8 OD 2 Pcs	1
51	34-00655-18	Screw, Cap Hex Head 1/4-20 X 2.25	2
52	34-06053-00	Washer .250 ID X .800 OD	2
53	66-U---1--5321-7	Washer, Plain 1/4 W Type A	2
54	68-15998-00	Nut Plate	1
55	34-00373-51	Clamp, Tube	2

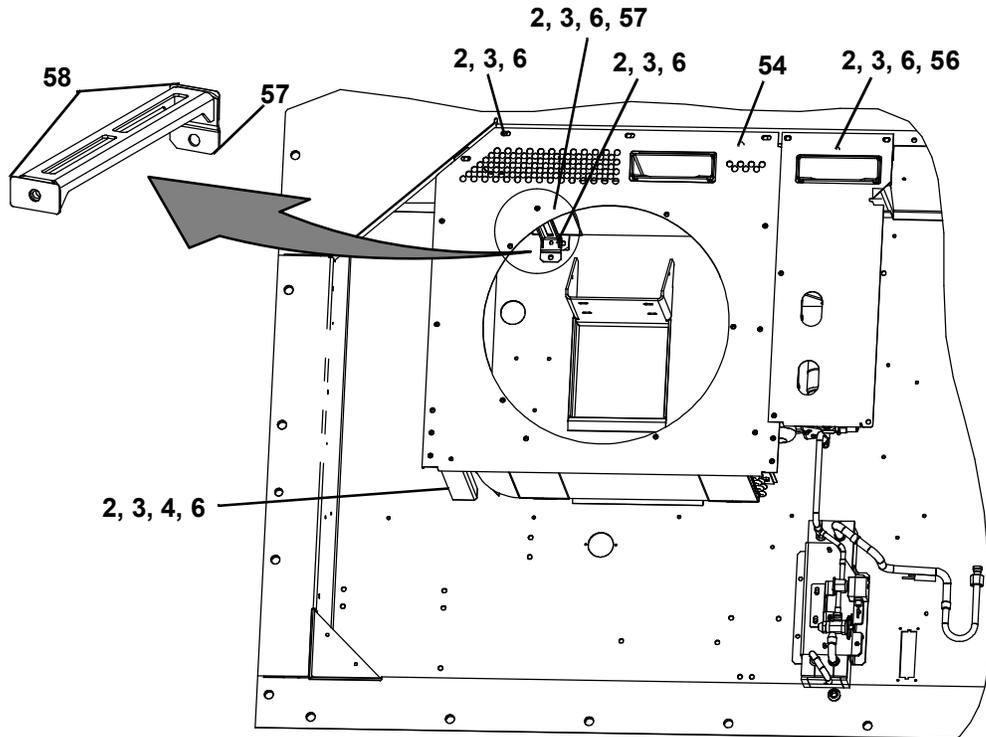
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12 Condenser Section COIL & COVERS



77-01697

12 Condenser Section COIL & COVERS



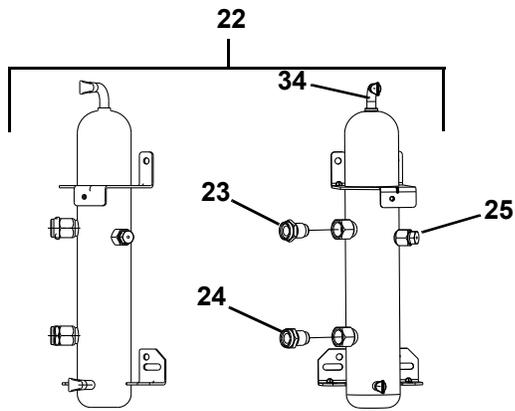
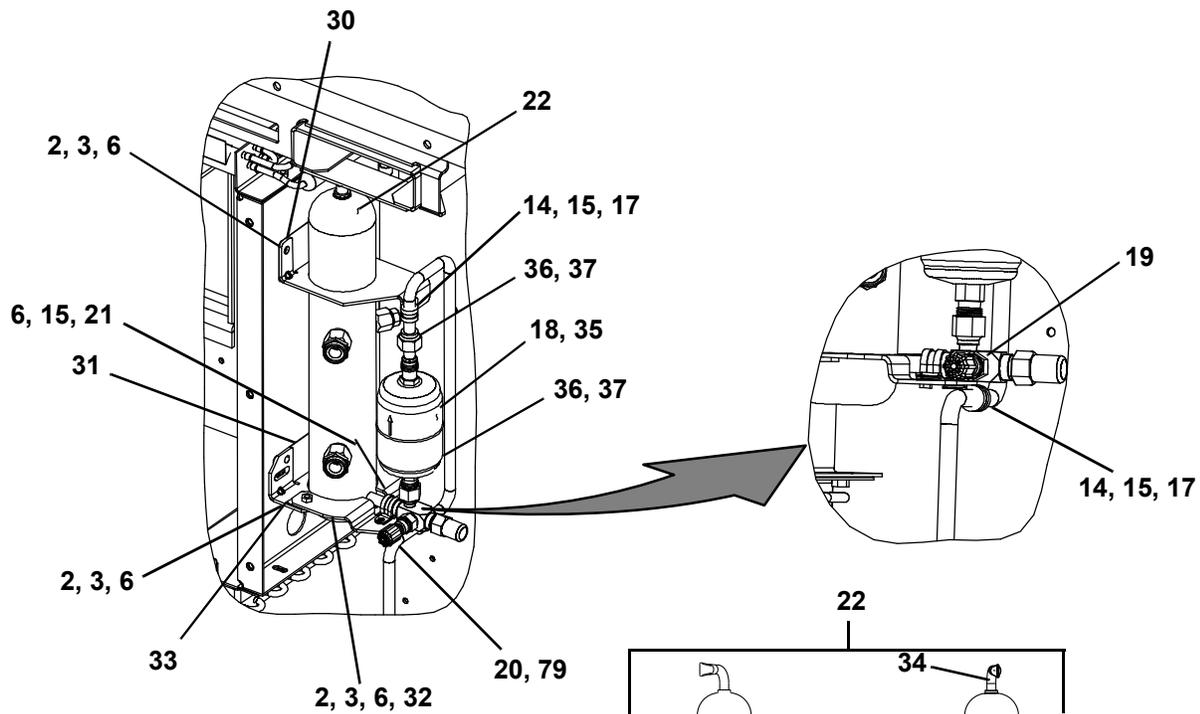
77-01697

Item	Part Number	Description	Qty
1	81-04203-20	Condenser Coil Assembly:	1
	68-17185-00	Panel	1
	34-00655-04	Screw, Hex Head	4
	34-06053-00	Washer	4
	66-U---1--5321-3	Washer, Plain	4
	58-04910-00	Protector	1
	58-04910-01	Protector	1
	58-04026-23	Protector	1
	58-04026-108	Protector	1
	56-09149-00	Coupling	2
2	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	42
3	66-U---1--5321-7	Washer, Plain 1/4 W Type A	44
4	68-17196-00	Bracket	1
5	58-04910-02	Protector	2
6	34-06053-00	Washer .250 ID X .800 OD	45
7	42-00771-02	Gasket	2
8	42-00771-00	Gasket	4
9	42-00771-01	Gasket	2
10	42-00771-03	Gasket	2
11	66-U---1--5361-7	Screw, Cap Hex Head 3/8-16 X 1.00	1
12	34-00662-13	Washer, Plain 3/8	1

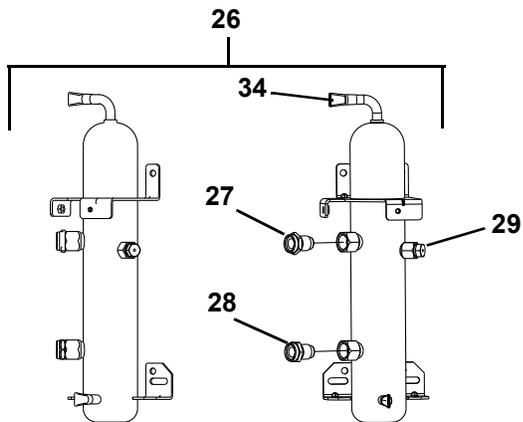
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12 Condenser Section

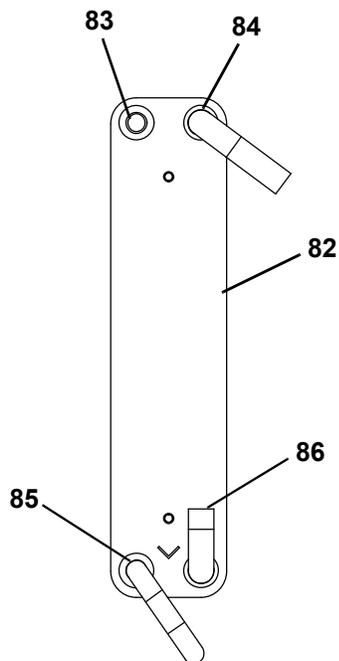
RECEIVER, HEAT EXCHANGER SECTIONS



Receiver Assembly (Units without BPWCC)



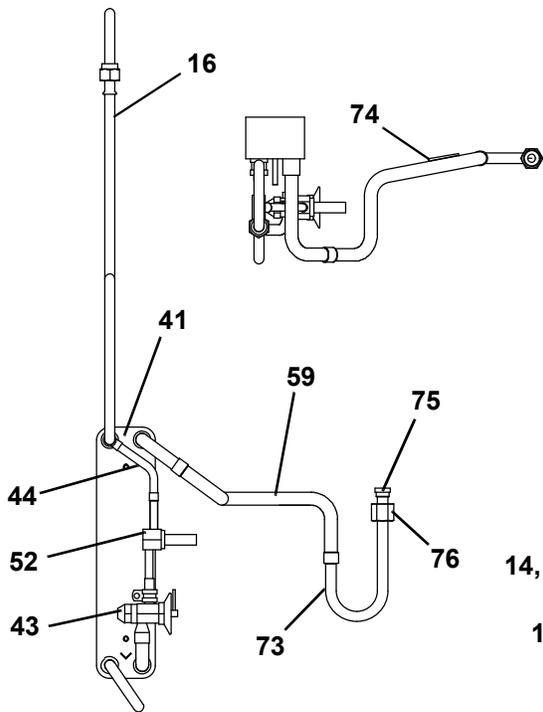
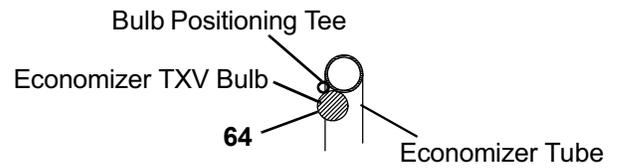
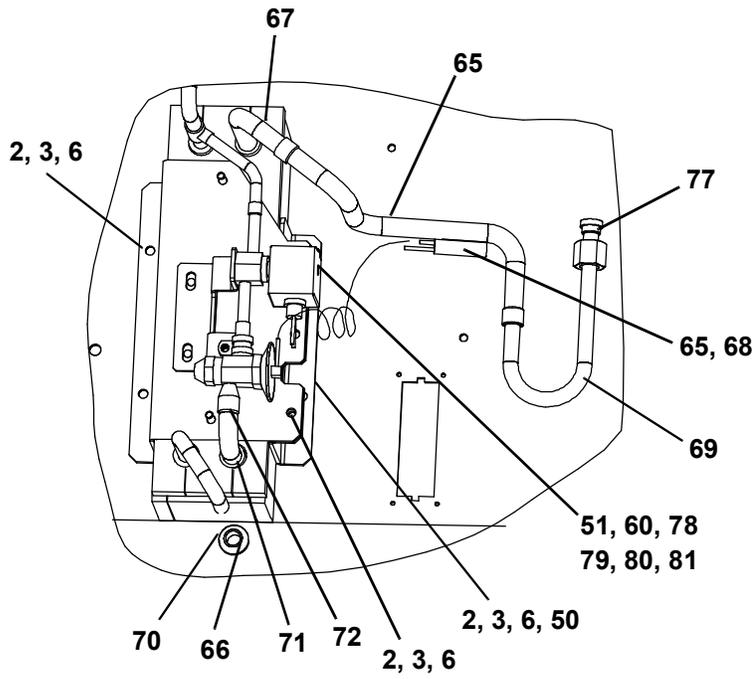
Receiver Assembly (Units with BPWCC)



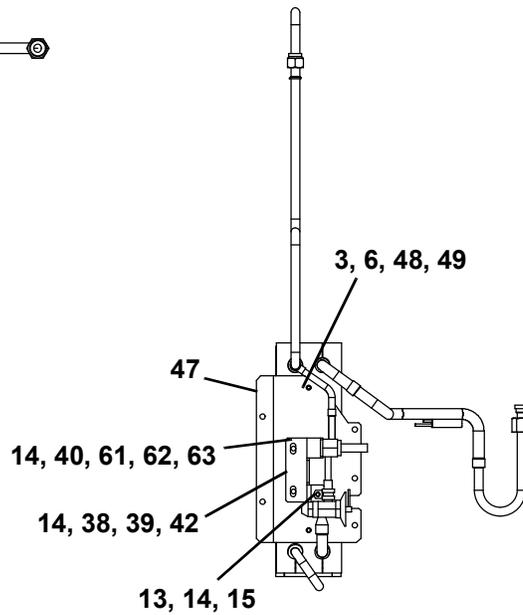
Heat Exchanger Assembly

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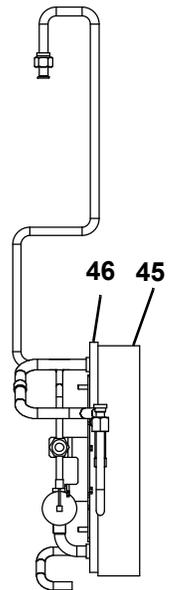
12 Condenser Section
ECONOMIZER SECTION



Economizer Brazed Assembly



Economizer Assembly



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12 Condenser Section

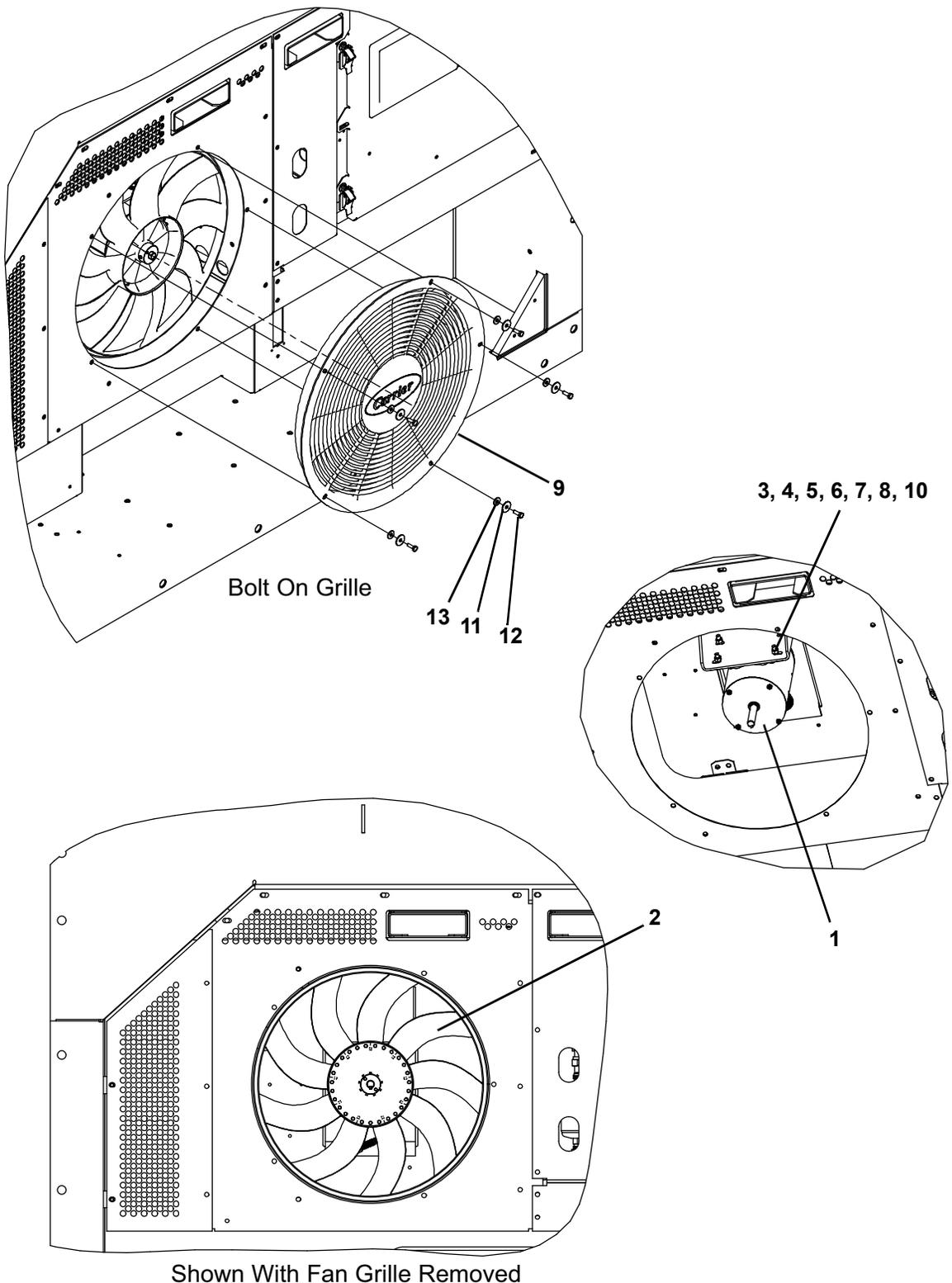
Item	Part Number	Description	Qty
13	34-00373-54	Clamp, Tube Cushion	1
14	34-06053-05	Washer .205 ID X .600 OD	7
15	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	4
16	56-09064-00	Tube	1
17	44-00370-03	Clamp, Cushioned	2
18	14-00341-07	Filter Drier 1/2 Flare, "O" Ring	1
	14-00341-11	Filter Drier Aluminum Coated, 1/2 Flare, "O" Ring	1
19	14-00222-02	Valve King	1
20	40-00520-01	Coupling	1
21	34-00373-07	Clamp, Tube	1
22	79-04049-01	Receiver Assembly (Units without Brazed Plate WCC) Includes:	1
23	14-00220-04	Sight Glass 1/2-14 Npt Danfoss	1
24	14-00221-04	Indicator Moisture & Liquid	1
25	14-01032-14	Fusible Plug	1
26	79-04049-02	Receiver Assembly (Units with Brazed Plate WCC) Includes:	1
27	14-00220-04	Sight Glass 1/2-14 Npt Danfoss	1
28	14-00221-04	Indicator Moisture & Liquid	1
29	14-01032-14	Fusible Plug	1
30	58-04026-23	Protector	1
31	58-04026-108	Protector	1
32	68-16864-00	Bracket	1
33	58-04910-04	Protector	2
34	40-66625-38	Elbow, 90 Str 1/2C X 1/2C	1
35	14-00284-20	O-Ring Filter Drier	2
36	66-U---1--3882	Wire Tie	4
37	42-00032-13	Insulation Prestite	2
38	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X .500 Slt'd	2
39	66-U---1--5321-8	Washer, Plain #10 Type A	2
40	58-04026-59	Protector Solenoid Valve	1
41	40-66620-01	Tee, Reducing 1/2 X 1/2 X 3/8	1
42	68-14278-00	Bracket	1
43	14-00232-33	Valve, Expansion 5/8 OD X 3/8 OD	1
44	56-07911-00	Tube, Liquid 3/8 OD X .028 W	1
45	42-00389-03	Insulation Economizer	1
46	42-00390-03	Insulation Economizer	1
47	68-15477-02	Bracket	1
48	58-00836-19	Spacer Nylon	2
49	34-00667-11	Nut, Self Lock	2
50	68-15478-02	Bracket	1
51	14-01091-05	Coil, ESV	1
52	14-01090-12	Valve Body Solenoid, ESV	1
53	34-06053-02	Washer 0.375 ID X 1.000	1

12 Condenser Section

54	79-04055-01	Cover Includes:	
	68-17290-01	Cover	1
	58-04910-02	Protector	1
	42-00771-00	Gasket	2
	42-00771-01	Gasket	3
	42-00771-02	Gasket	1
	42-00771-03	Gasket	1
55	42-00065-01	Gasket (same for both panels)	1
56	68-16823-02	Cover, White	1
57	86-04994-00	Bracket	1
58	58-04910-05	Protector	2
59	56-09164-00	Tube	1
60	66-U---1--3803	Tube, Heat Shrink	2
61	66-U---1--5371	Screw, Machine Hex Head #8-32 X 1/2	2
62	66-U---1--5321-2	Washer, Plain #8 Type A	2
63	66-U---1--5331-4	Washer, Lock #8 Spring	2
64	42-00032-00	Insulation Prestite	1
65	66-U---1--3882-3	Wire Tie	3
66	66-U---1--1571-3	Grommet	1
67	42-00425-139	Insulation, Tube	1
68	42-00425-69	Insulation, Tube	1
69	42-00667-32	Insulation, Tube	1
70	42-00667-28	Insulation, Tube	1
71	42-00425-78	Insulation, Tube	1
72	42-00425-93	Insulation, Tube	1
73	56-66738-00	Tube	1
74	99TS0322CK001400	Tube, Straight	1
75	40-00668-00	Sleeve	1
76	40-00667-00	Nut, Hex	1
77	42-00243-04	O-Ring	1
78	34-66638-00	Screw	1
79	14-01091-20	O-Ring	1
80	14-01091-21	O-Ring	1
81	14-01091-22	Spacer	1
82	81-04202-00	Heat Exchanger:	1
83	99TS0835CK002000	Tube, Straight	1
84	56-09163-00	Tube	1
85	56-08667-00	Tube, Liquid	1
86	56-08627-00	Tube	1

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13 Condenser Fan and Motor



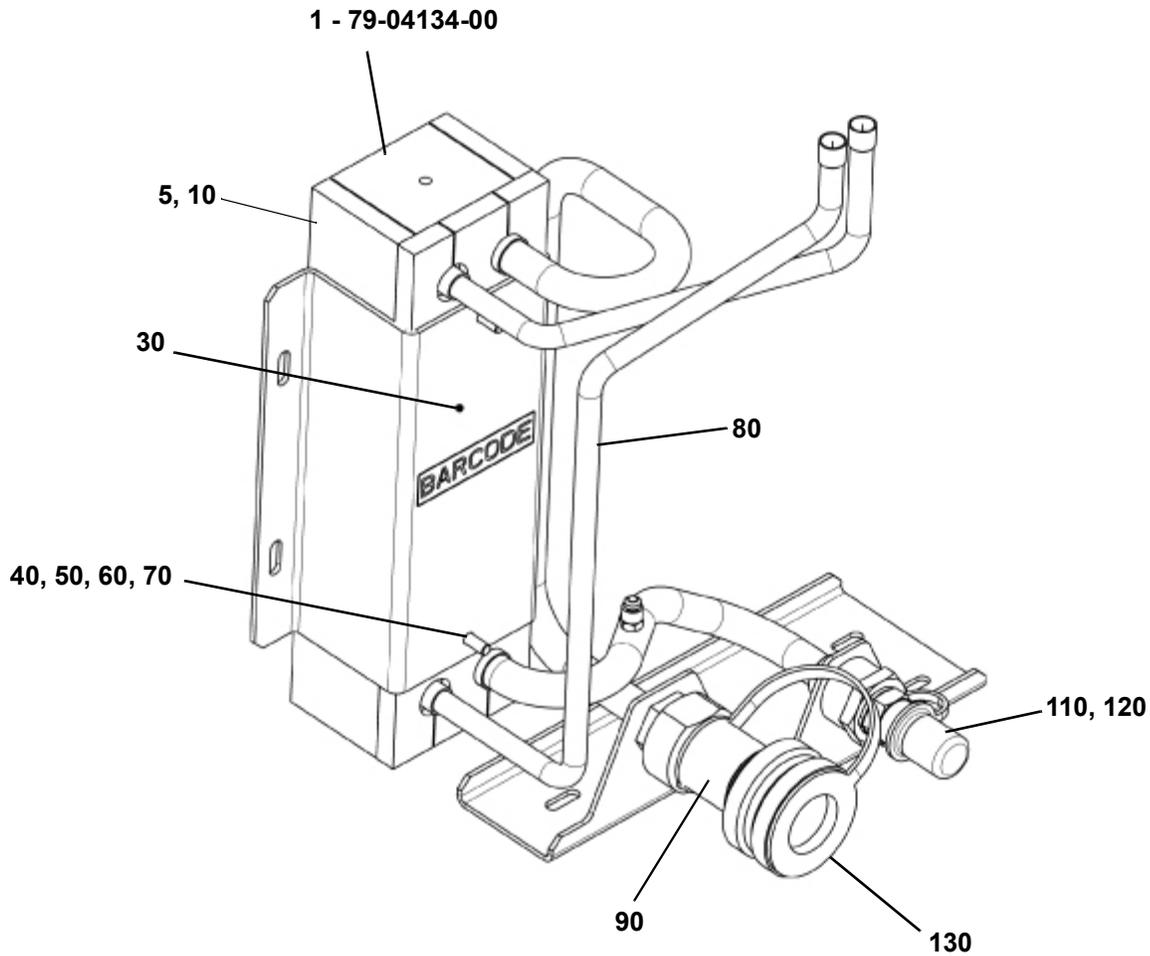
77-01707

13 Condenser Fan and Motor

Item	Part Number	Description	Qty
1	54-00670-20	Condenser Fan Motor	1
	04-50029-01	Bearing	2
2	38-00620-01	Condenser Fan Assembly	1
3	69NT--35--3452	Shim	1
4	34-01181-01	Washer, Flat	8
5	34-00667-12	Nut, Self Lock	4
6	66-U---1--5361	Screw, Cap Hex Head 5/16-18 X 1.25	4
7	69NT--35--3452-1	Shim	1
8	69NT--35--6112	Protector	2
9	58-04980-00SV	Condenser Grille Includes:	1
10	34-06053-02	Washer	4
11	69NT--35--2692-1	Washer, Fender 1/4-.993-1.015 OD	5
12	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	5
13	34-06357-00	Washer	5

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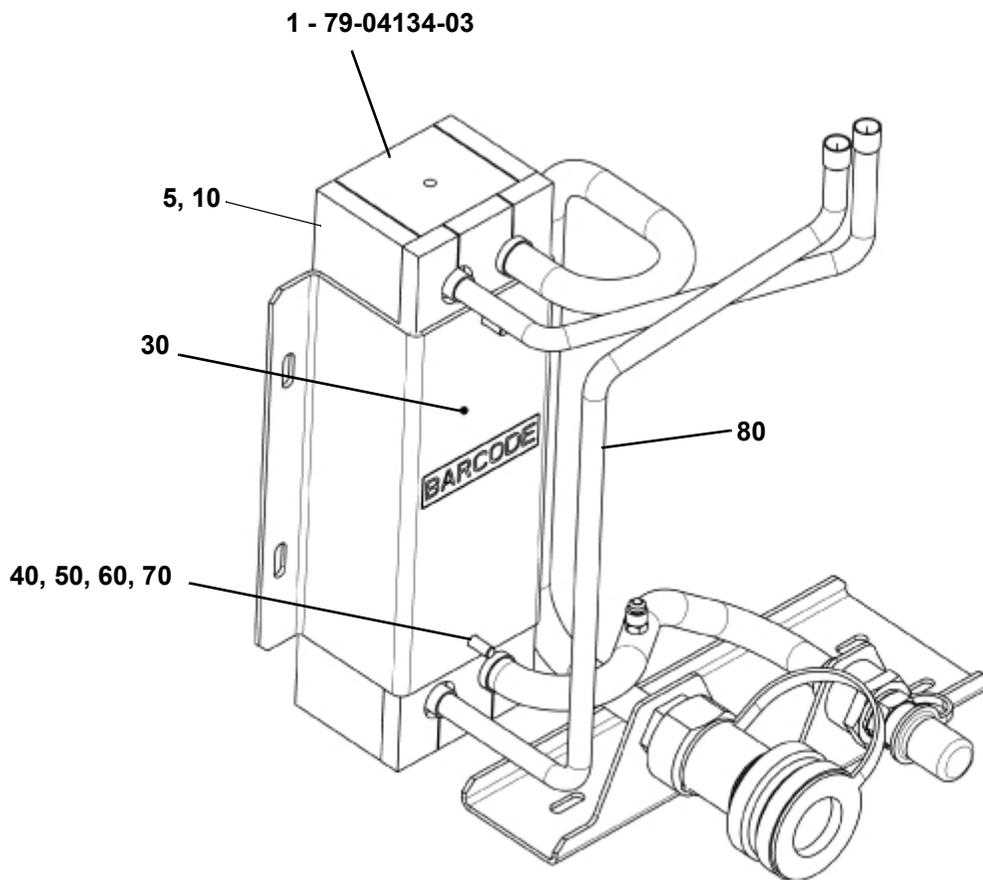
14 Water Cooled Condenser Option - Braze Plate



Item	Part Number	Description	Qty
1	79-04134-00	Condenser Assembly	1
5	42-00390-04	Insulation	1
10	42-00389-04	Insulation	1
30	68-17676-00	Bracket	1
40	58-00836-19	Spacer	2
50	34-06053-00	Washer	2
60	66-U---1--5321-7	Washer, Plain	2
70	34-01184-06	Nut, Lock	2
80	81-04238-00	Heat Exchanger Assembly	1
90	40-01129-00	Coupling Socket	1
110	66-U---2--1142	Cap, Dust	1
120	66-U---1--2763-5	Coupling Assy	1
130	66-U---2--1152	Cap, Dust	1

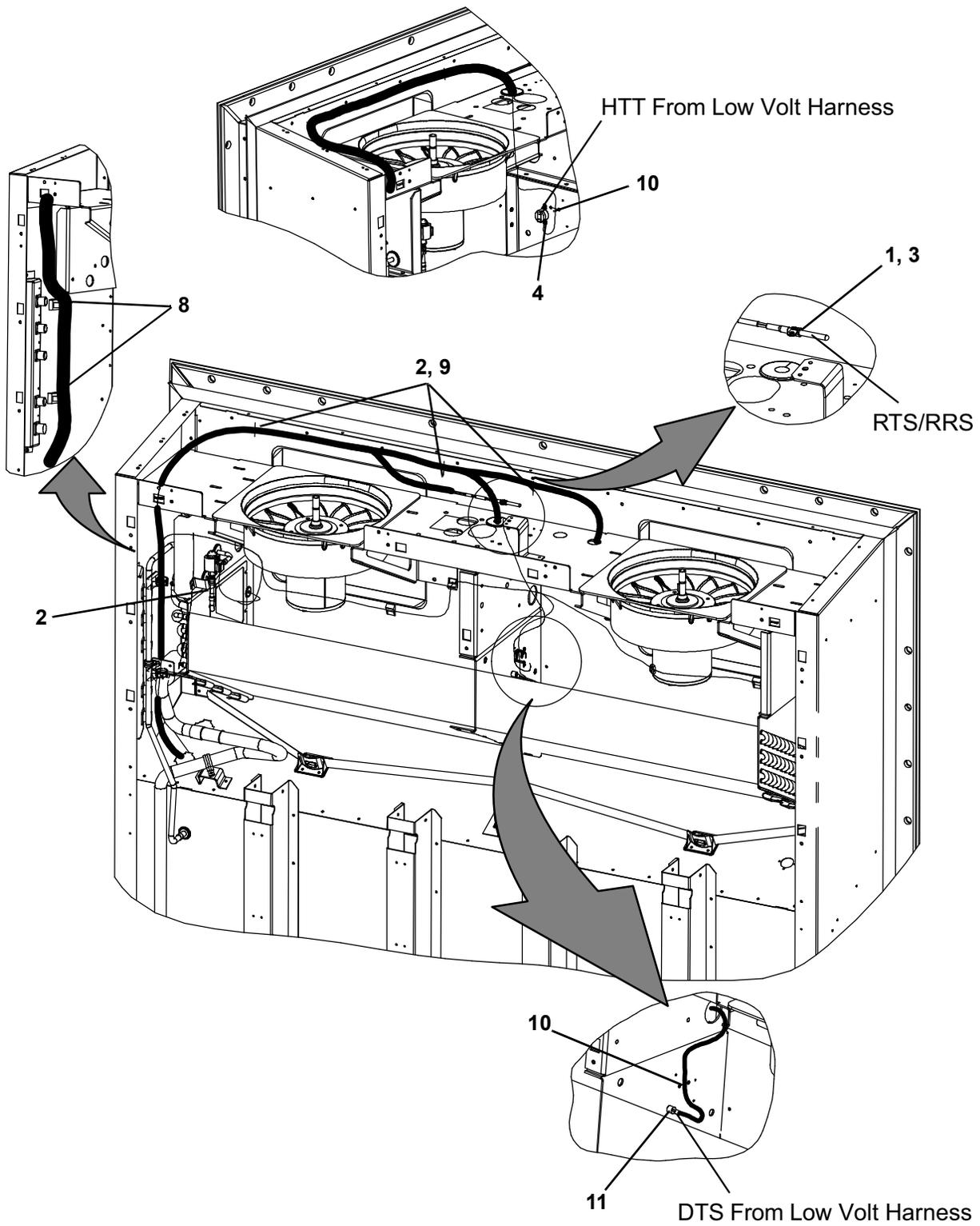
79-04134-00

14 Water Cooled Condenser Option - Braze Plate



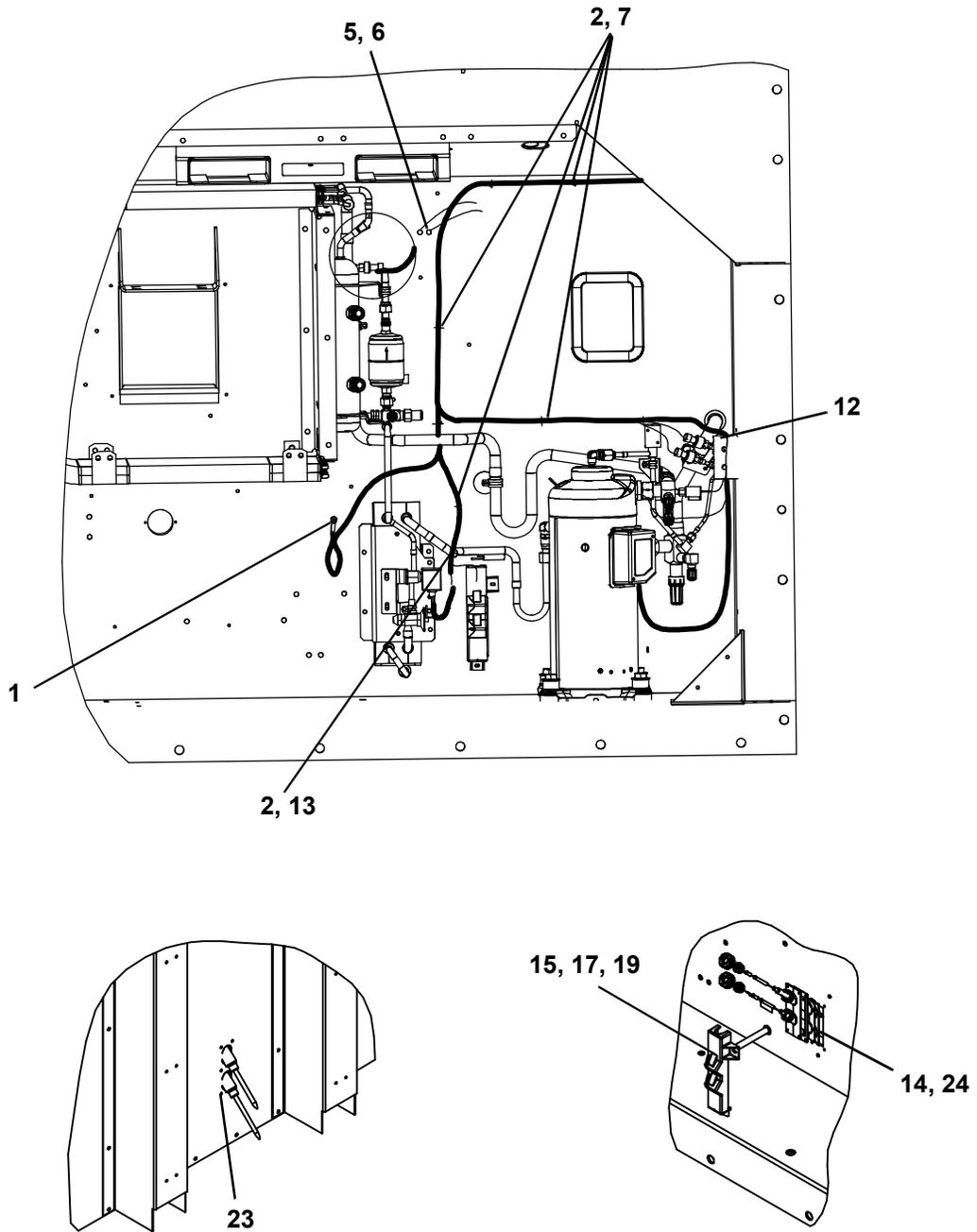
Item	Part Number	Description	Qty
1	79-04134-03	Condenser Assembly	1
5	42-00390-04	Insulation	1
10	42-00389-04	Insulation	1
30	68-17676-00	Bracket	1
40	58-00836-19	Spacer	2
50	34-06053-00	Washer	2
60	66-U---1--5321-7	Washer, Plain	2
70	34-01184-06	Nut, Lock	2
80	81-04238-00	Heat Exchanger Assembly	1

15 Controller Kit



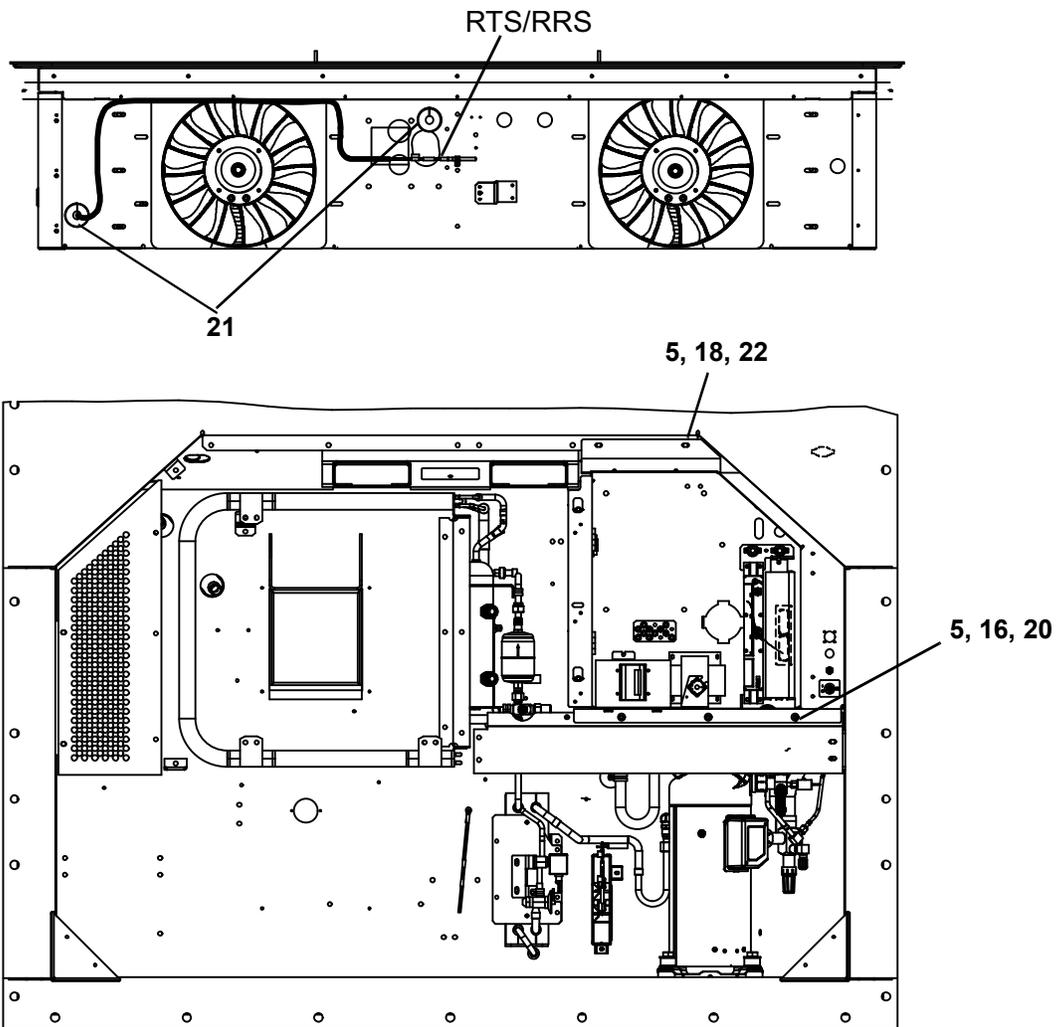
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15 Controller Kit



77-01696

15 Controller Kit



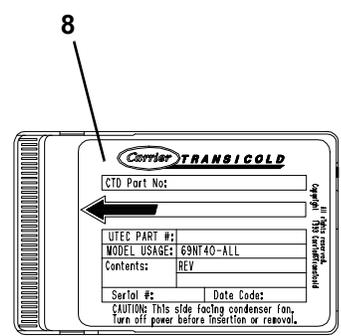
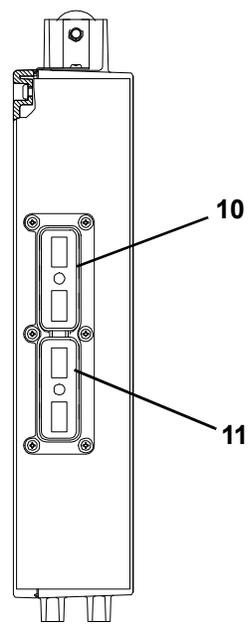
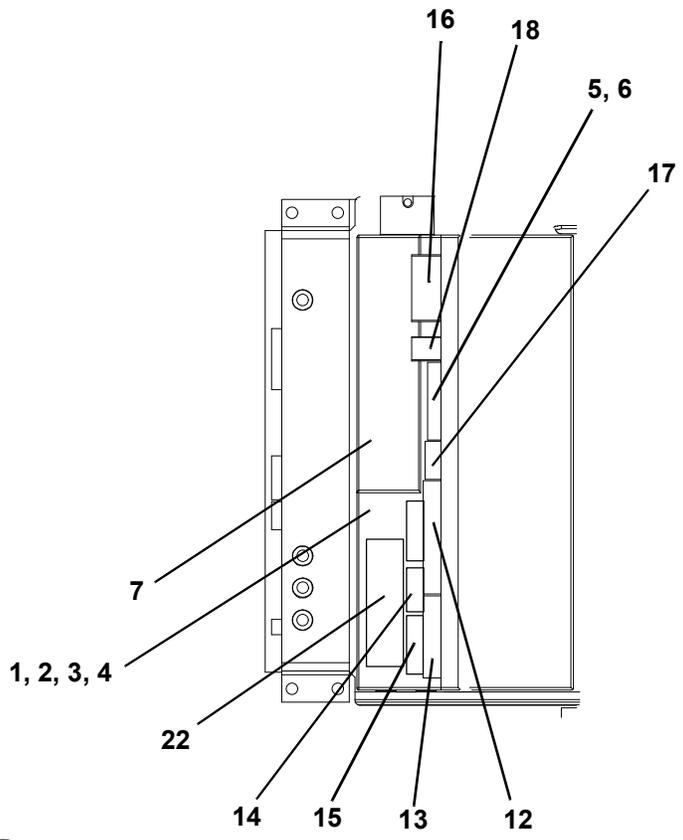
77-01696

Item	Part Number	Description	Qty
1	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	2
2	66-U---1--3882	Wire Tie	17
3	44-01041-04	Clamp, Cushioned	1
4	34-01178-22	Screw, Hex Head #8-32 X 0.50	2
5	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	7
6	AU27JR171	Washer, Lock 1/4 Ext Tooth	1
7	58-04316-00	Base, Mounting	8
8	44-00361-00	Clip, Retaining	2
9	58-04315-00	Base, Mounting	3
10	58-00969-00	Wire Tie	1
11	34-01178-23	Screw, Tc Hex Head #8-32 X 0.75	1
12	66-U---1--3803	Tube, Heat Shrink	2
13	58-04321-24	Tube, Slit 3/8 ID, 14.00" Lg	1

15 Controller Kit

14	58-04276-00	Holder Supply Probe	1
15	58-04279-00	Cover Plastic, Probe	1
16	34-06053-03	Washer 0.250 ID X 1.000 OD	3
17	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.5000	2
18	66-U---1--5321-7	Washer, Plain 1/4 W Type A	2
19	66-U---1--5321-8	Washer, Plain #10 Type A	2
20	69NT--35--2692-1	Washer, Fender 1/4	3
21	58-04273-00	Grommet Split	2
22	34-06053-00	Washer 0.250 ID X 0.800 OD	2
23	34-00928-04	Rivet, Blind	6
24	34-00928-20	Rivet, Blind	4
			77-01696-00

16 Controller Module Section and Software Cards

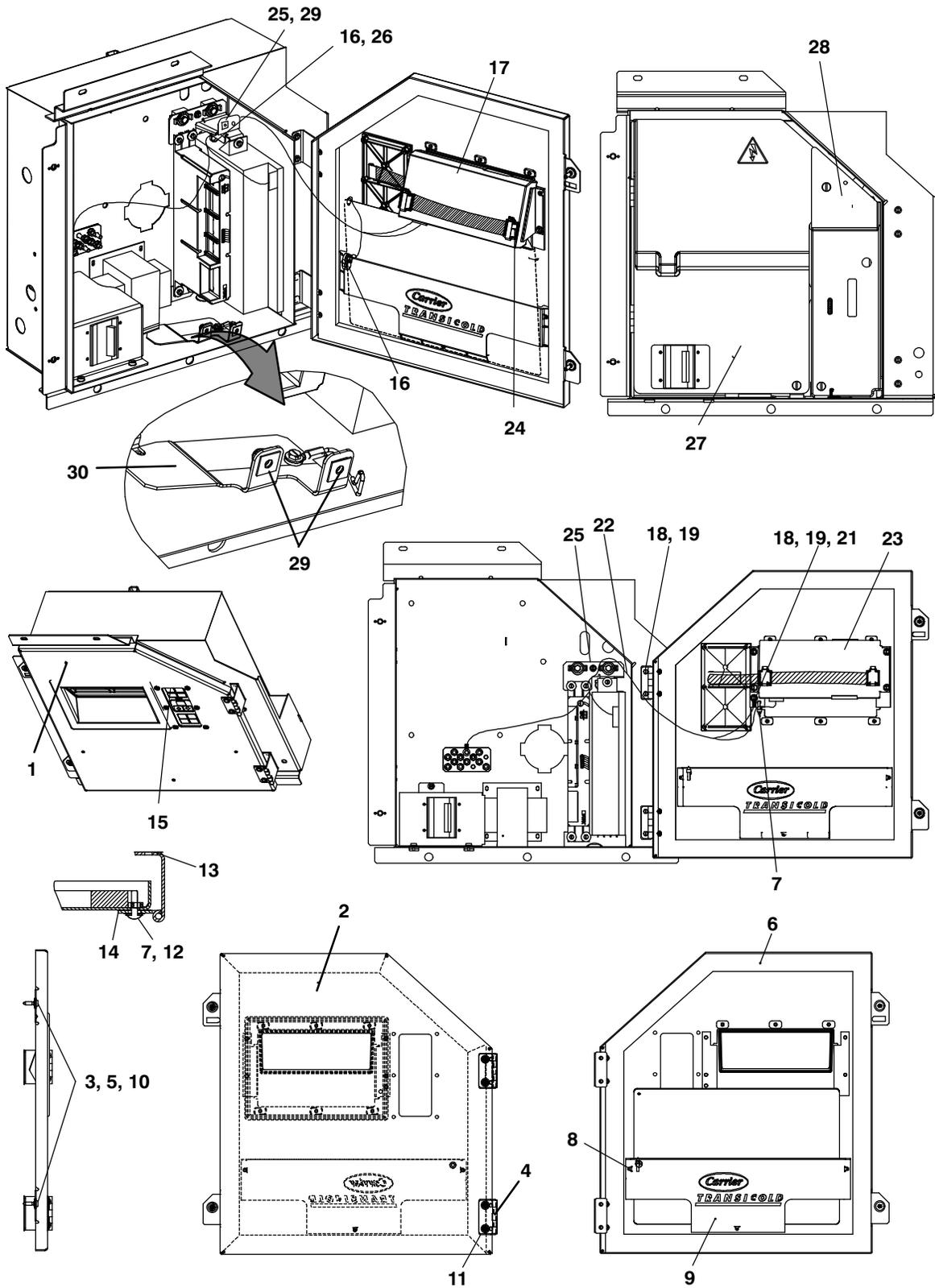


VIEW - BACK OF CONTROLLER/DataCORDER

16 Controller Module Section and Software Cards

Item	Part Number	Description	Qty
1	12-55009	Controller/DataCORDER Module - Includes:	1
2	66-U---1--5371-7	Screw, Hex Head, #10-24 X 1/2 Inches Long, SST	1
3	69NT--35--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	Controller Operation Software Card (Latest version will be supplied)	1
9	12-00615	DataCORDER Operation Software Card (Latest version will be supplied)	1
10		Connector (EC A-K)	
11		Connector (EC L-Y)	
12		Connector (KA) - 14-Pin	
13		Connector (KB) - 10-Pin	
14		Connector (KD) - 4-Pin	
15		Connector (KE) - 5-Pin	
16		Connector (MA) - 12-Pin	
17		Connector (KH) - 6-Pin	
18		Connector (MC) - 8-Pin	
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
RECHARGEABLE BATTERY OPTION			
23	30-00407-02SV	Rechargeable Battery Pack with Connector-Controller/DataCORDER Module	A/R

17 Controller Door Kit, Screw



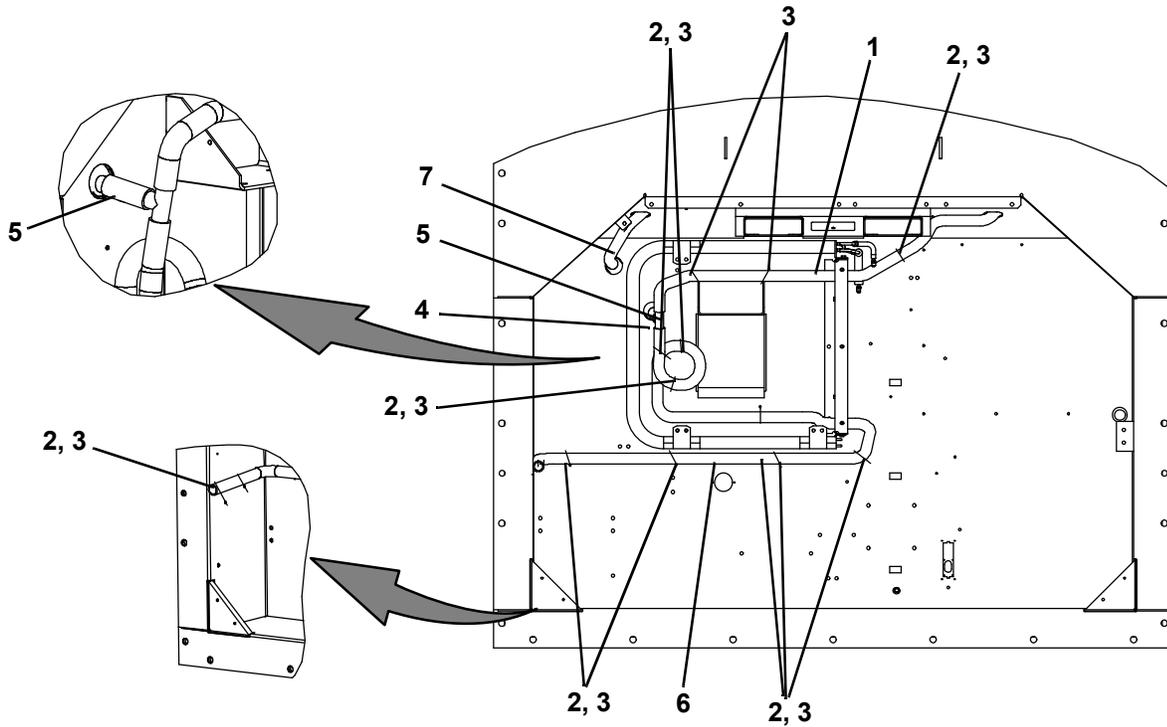
77-01664

17 Controller Door Kit, Screw

Item	Part Number	Description	Qty
1	79-04018-08	Control Box Door Assembly, Slotted Screw White with Fixed Pin Includes;	1
2	86-04987-02	Door, Control Box	1
3	66-U---1--6811-8	Screw, Retaining	2
4	44-00477-00	Hinge Staked Pin	2
5	34-06169-00	Washer, Retaining 0.185 ID X 0.62 OD	2
6	42-00741-00	Gasket Control Box Door	1
7	66-U---1--2403-1	Screw, Machine Trhd #10-24 X .750 Sltd	4
8	34-06107-00	Rivet, Blind .125 Diameter .188-.250	3
9	58-04954-00	Pocket, Placard	1
10	34-06053-00	Washer 0.250 ID X 0.800 OD	4
11	58-04101-02	Protector	2
12	34-06053-05	Washer .205 ID X0 .600 OD	4
13	58-04366-00	Window Controller Door	1
14	58-04101-00	Protector	2
15	79-66669-00	Key Pad Assembly Includes:	1
	NSS	Key Pad 69Nt Core Micro	1
	NSS	Plate, Backup	1
	NSS	Gasket Keypad	1
	NSS	Washer, Plain #10 Type A	6
	NSS	Screw, Pan Head #10-9 X.75	6
	NSS	Indicator Dot	1
16	66-U---1--3882	Wire Tie	3
17	12-00433-03RP	Module 69Ne/Nt Display	1
18	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500 Sltd	9
19	66-U---1--5321-8	Washer, Plain #10 Type A	9
20	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750	2
21	AU27JR131	Washer, Lock #10 Ext Tooth	1
22	22-01713-49	Harness	1
23	58-04960-00	Rain Shield	1
24	44-00391-00	Clamp	2
25	68-17220-00	Bracket	1
26	58-04316-00	Base, Mounting	1
27	79-04046-00	Shield, Hi-Volt Std	1
28	79-04047-00	Shield, Low Voltage	1
29	34-06139-04	Receptacle, ¼ inch retaining	3
30	68-17298-00	Bracket	1

77-01664-00

18 Drain

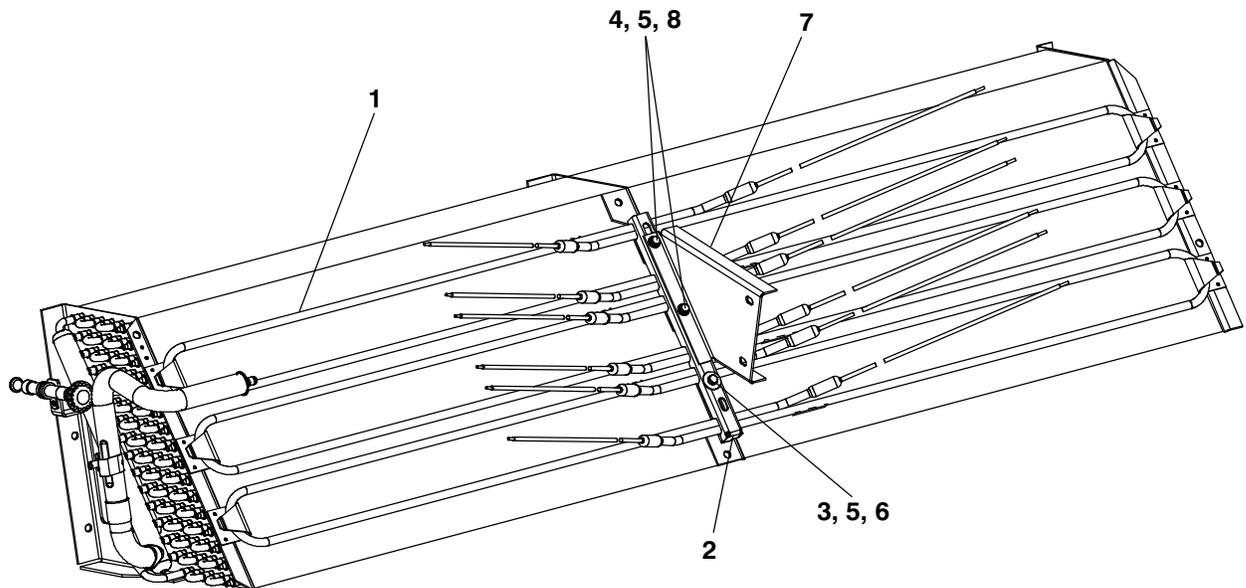


77-01699

Item	Part Number	Description	Qty
1	58-04539-12	Tube, Flexible Std. 44"	1
2	58-04316-00	Base, Mounting .250 Diameter Mounting Hole	11
3	66-U---1--3882	Wire Tie /16-1-3/4 Self locking	13
4	58-04202-02	Tee 1.00 OD Drain	1
5	58-04539-10	Tube, Flexible Std. 3"	1
6	58-04539-13	Tube, Flexible Std. 109"	1
7	58-04539-11	Tube, Flexible Std. 12"	1

77-01699-00

19 Heaters

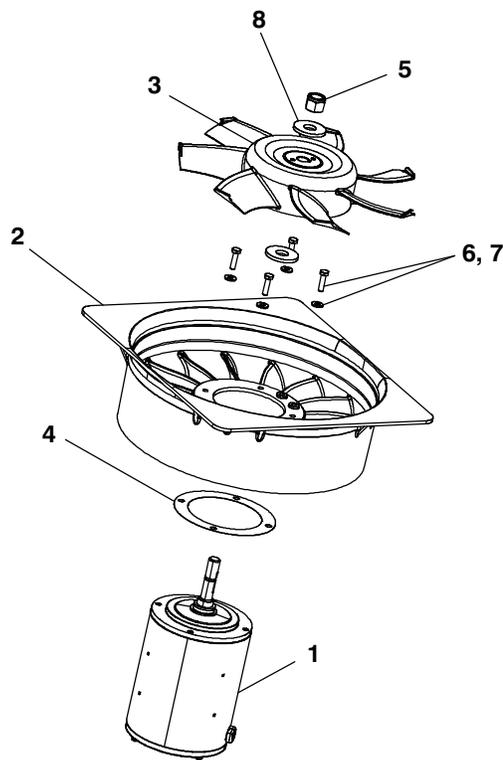
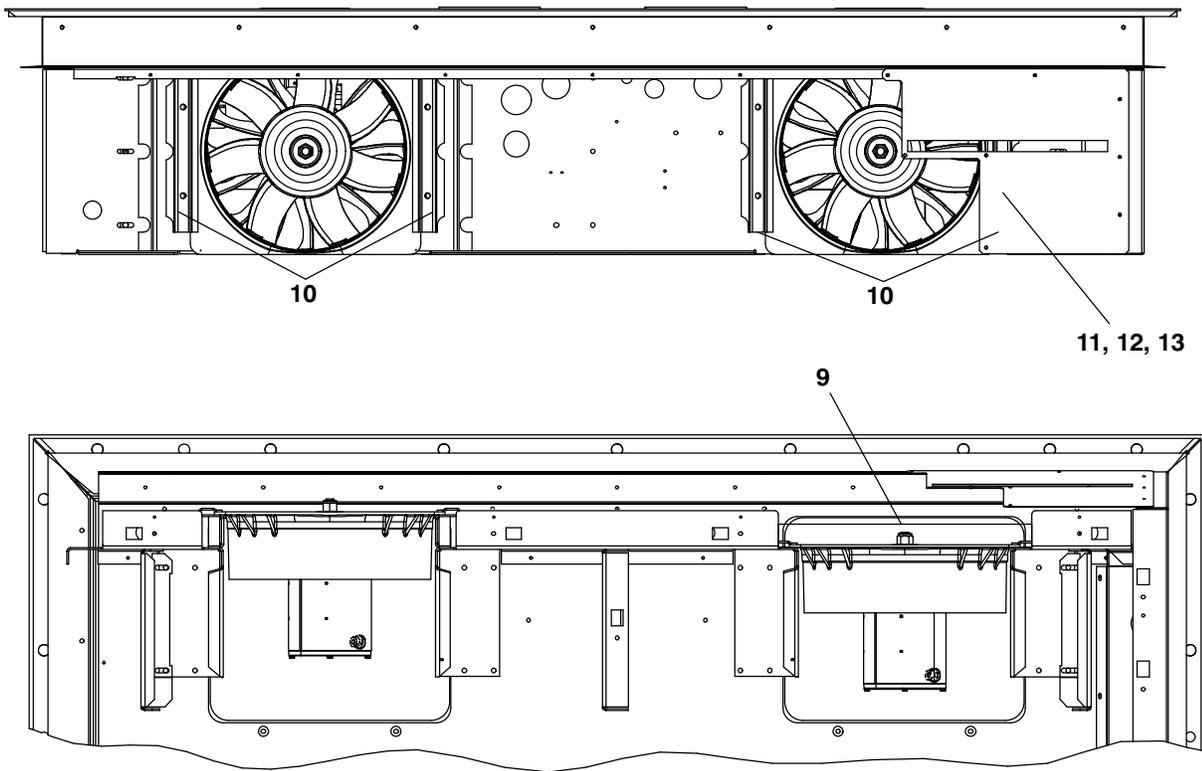


77-01614

Item	Part Number	Description	Qty
1	24-66603-00	Defrost Heater	6
2	86-04956-00	Retainer Assembly	1
3	69NT--35--2692-1	Washer, Fender 1/4-.993-1.015 OD	1
4	34-00655-12	Screw, Cap Hex Head 1/4-20 X 1.50	2
5	34-00663-11	Washer, Lock 1/4 Spring	3
6	34-00655-10	Screw, Cap Hex Head 1/4-20 X 1.25	1
7	68-16894-00	Bracket	1
8	66-U---1--5321-3	Washer, Plain 1/4 N Type A	2

77-01614-00

20 Evaporator Fan and Motor

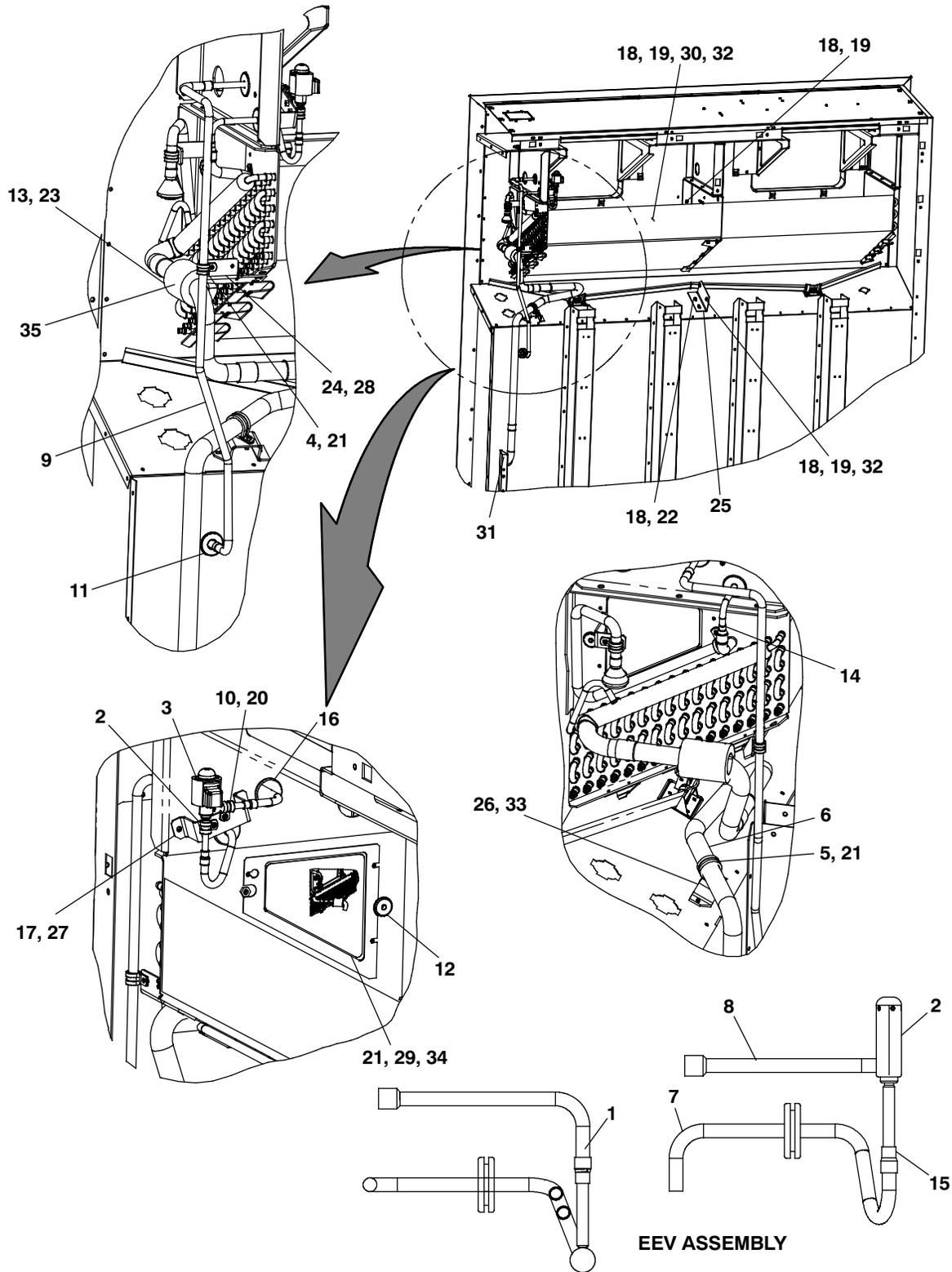


77-66667

20 Evaporator Fan and Motor

Item	Part Number	Description	Qty
1	54-00648-20	Evaporator Motor	2
	04-50029-20	Bearing Shaft End	1
	04-50029-01	Bearing Opposite End	1
2	48-00413-00	Stator, Non-anodized Coating	2
	48-00413-01	Stator, Anodized Coating	
3	38-00626-00	Evaporator Fan	2
4	58-04770-00	Protector	2
5	34-00795-17	Nut, Self Lock	2
6	34-06165-08	Screw, Cap Hex Head 1/4-20X1.00	8
7	66-U---1--5321-3	Washer, Plain 1/4 N Type A	8
8	34-00616-06	Washer, Special 5/8, 18-8	4
9	66-U---1--2552-185	Gasket .75 Thick X 1.5X16.63	1
10	69NT--43---295	Bracket Assembly	4
11	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	4
12	34-00663-11	Washer, Lock 1/4 Spring	4
13	69NT--35--2692-1	Washer, Fender 1/4	4
			77-66667-01, 04

21 Evaporator Tubing and Coil



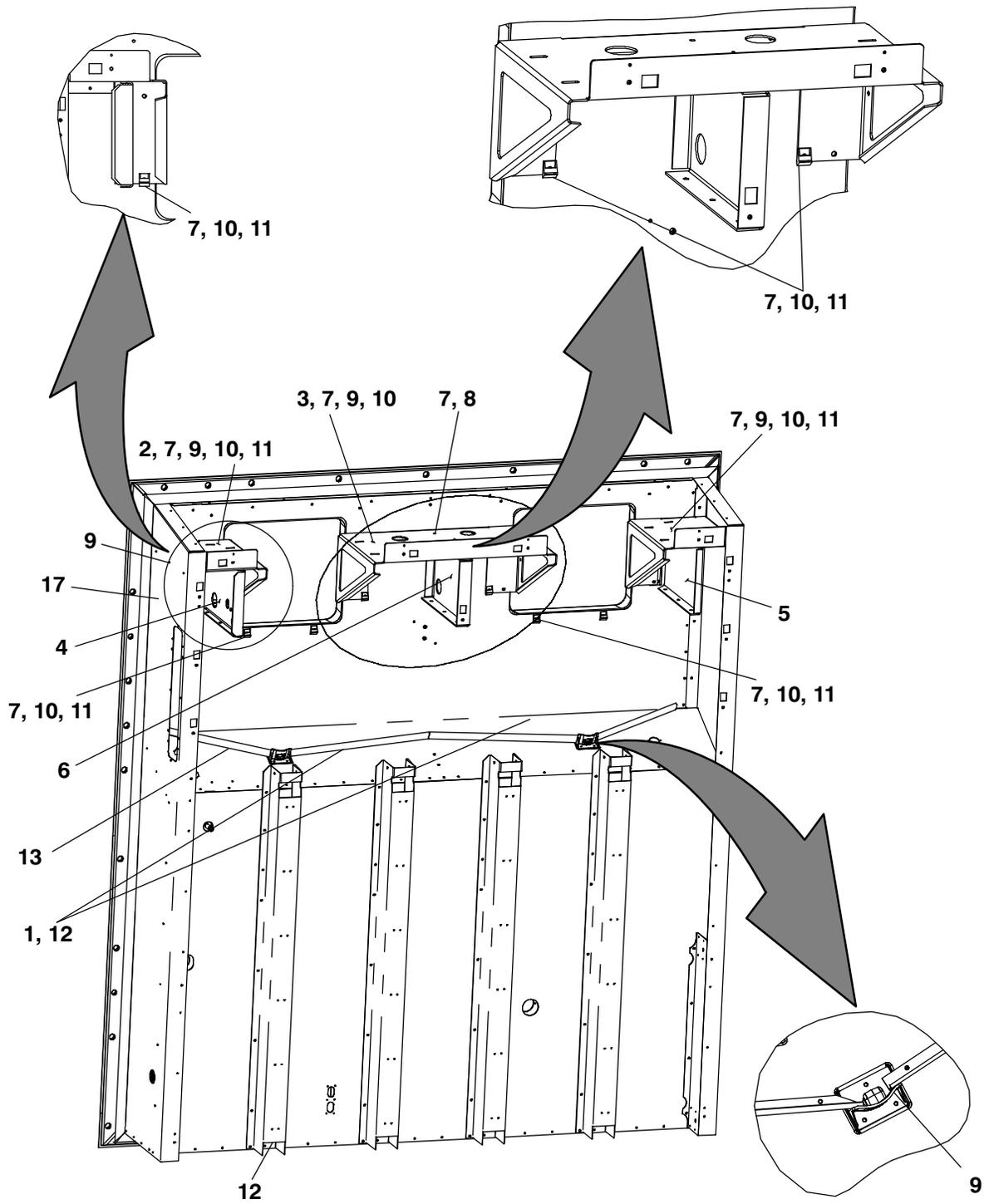
77-01689

21 Evaporator Tubing and Coil

Item	Part Number	Description	Qty
1	14-00176-01	Strainer 100 Mesh, 3/8 OD	1
2	14-00393-00SV	Valve, EEV	1
3	14-00393-10	Coil, EEV	1
4	44-00370-03	Clamp, Cushioned	1
5	44-00370-08	Clamp, Cushioned	1
6	56-09195-00	Tube, Suction 1-1/8 OD X .050	1
7	56-09141-00	Tube 3/8 OD X .028	1
8	56-09087-00	Tube, Liquid 3/8 OD X .028	1
9	56-09160-00	Tube, Liquid .500 OD X .035	1
10	34-00373-52	Clamp, Tube	2
11	58-00065-56	Grommet Neoprene	1
12	58-00065-46	Grommet	1
13	42-00425-109	Insulation, Tube Pre-Taped	1
14	40-66629-00	Bushing 5/8 X 3/8	1
15	40-66628-03	Coupling 3/8C X 5/16	2
16	58-00065-91	Grommet	2
17	66-U---1--5371-6	Screw, Machine Hex Head #10-24 X 0.750 Slt	2
18	66-U---1--5321-3	Washer, Plain 1/4 N Type A	15
19	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	13
20	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	2
21	66-U---1--5381-1	Screw, Hex Head #10-24 X .75L	5
22	34-06269-12	Screw, Lag 1/4-10 X 1.50 Hex Head	2
23	66-U---1--3882-3	Wire Tie	2
24	66-U---1--5381-3	Screw, Hex Head Slt #10-24 X0.63L	2
25	68-16893-00	Bracket	1
26	68-17190-00	Bracket	1
27	68-16892-00	Bracket	1
28	68-16715-00	Bracket	1
29	68-17089-00	Plate, Cover	1
30	74-66674-00	Install Kit for Evaporator Coil Assembly - Includes:	1
	81-04186-20	Evaporator Coil Assembly	1
31	42-00183-08	Trim, Flexible	1
32	34-00663-11	Washer, Lock 1/4 Spring	11
33	34-00928-09	Rivet, Blind	2
34	62-11750-00	Label Sensor Replacement	1
35	12-00500-01SV	Sensor, Evaporator (ETS1 & ETS2)	1

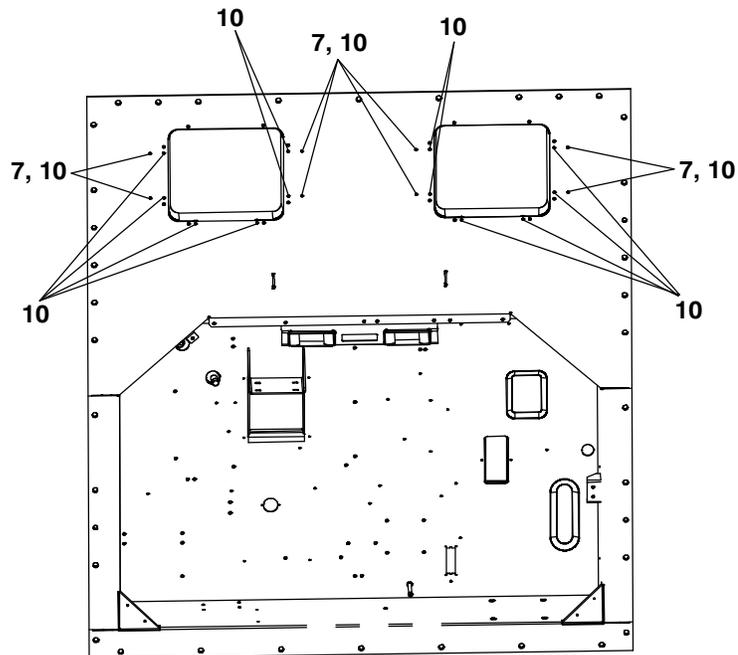
77-01689-00

22 Frame Kit



77-01690

22 Frame Kit

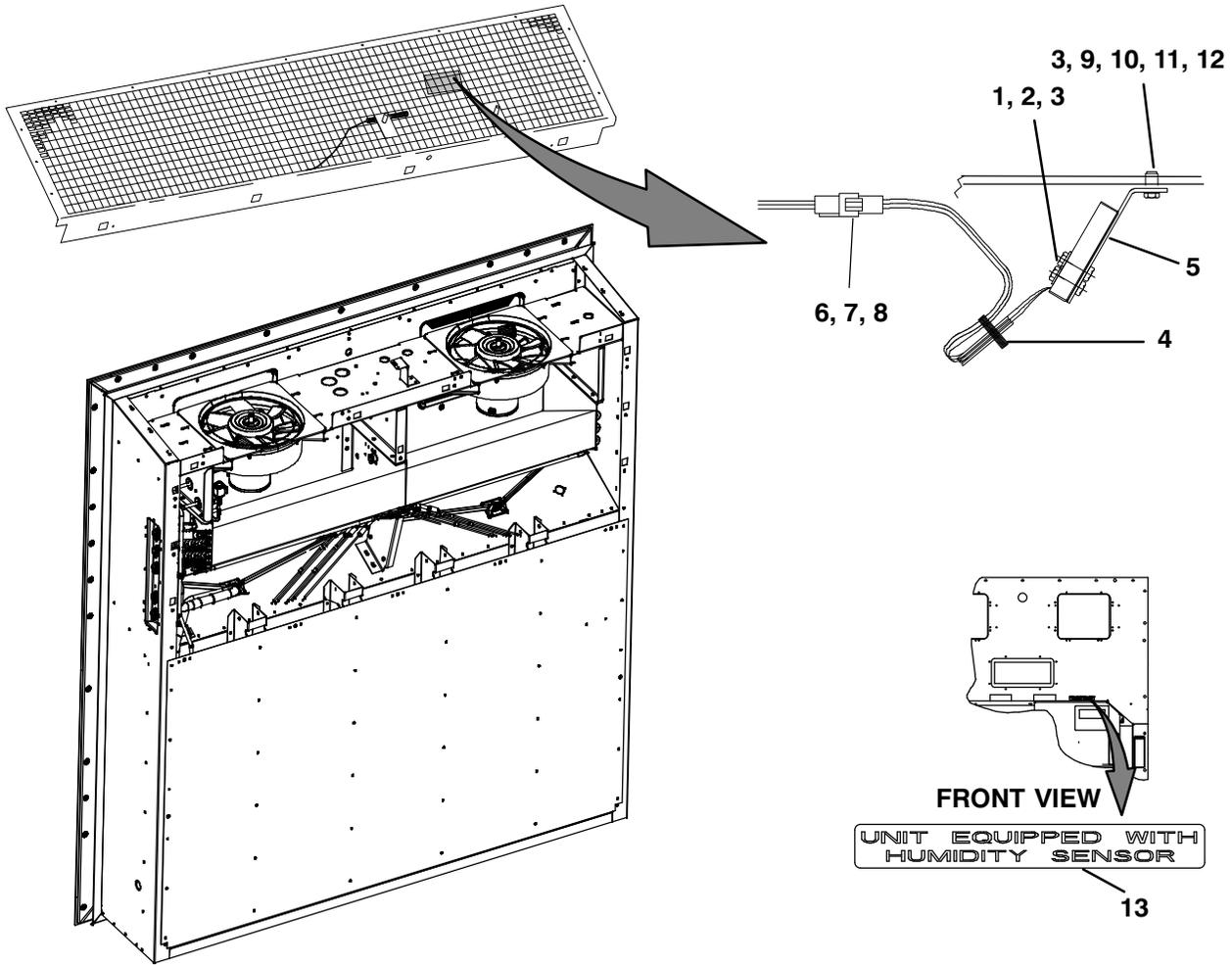


77-01690

Item	Part Number	Description	Qty
1	68-17345-00	Gutter	2
2	68-16696-00	Fan Deck	1
3	68-17419-00	Fan Deck Assembly	1
	68-17419-01	Fan Deck Assembly (No Extend Fresh Option)	1
4	68-16891-00	Panel	1
5	68-16767-00	Panel Assembly	1
6	68-17145-00	Panel Assembly	1
7	66-U---1--5321-3	Washer, Plain 1/4 N Type A	35
8	66-U---1--5361-25	Screw, Cap Hex Head 1/4-20 X 0.75	9
9	34-00928-09	Rivet, Blind	19
10	34-00655-10	Screw, Cap Hex Head 1/4-20 X 1.25	32
11	69NT--35--2692-1	Washer, Fender 1/4	11
12	34-00928-07	Rivet, Blind	159
13	68-17188-00	Gutter .040 Thick Aluminum	1

77-01690-00, 02

23 Humidistat Kit

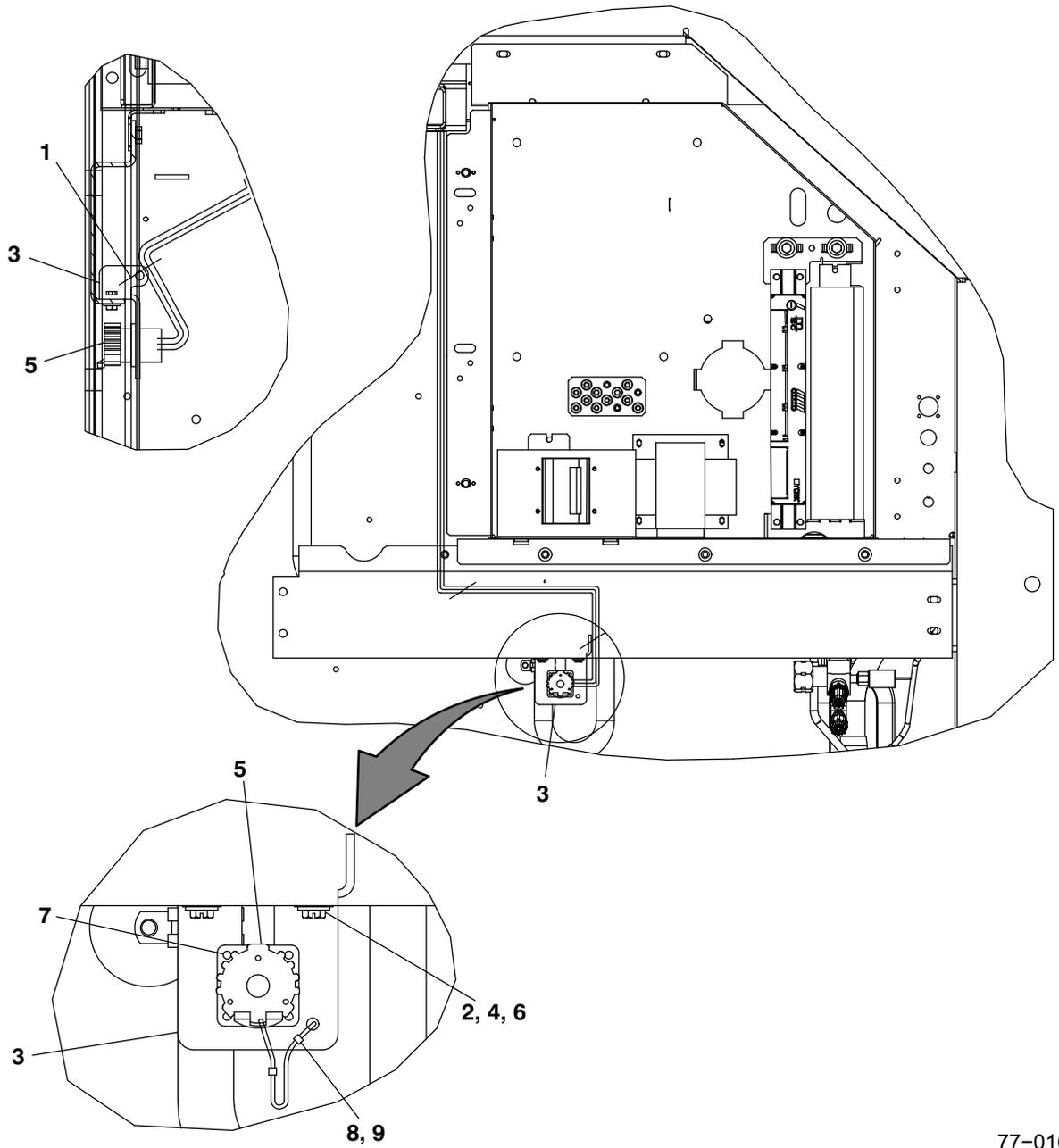


77-01009

Item	Part Number	Description	Qty
1	12-00686-00-01SV	Humidity Sensor	1
2	66-U---1--5371-10	Screw, Machine Hex Head #10-24 X 1.00	4
3	66-U---1--5321-8	Washer, Plain #10 Type A	4
4	66-U---1--3882	Wire Tie	1
5	68-13181-01	Bracket Assembly Humidity Sensor	1
6	22-01613-06	Plug 3 Pin	1
7	22-01613-07	Lock, Secondary 3 Pin (P)	1
8	22-01613-13	Contact Socket	3
9	AU27JR131	Washer, Lock #10 Ext Tooth	2
10	34-06051-32	Rivnut	2
11	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	2
12	66-U---1--5321-7	Washer, Plain 1/4 W Type A	2
13	69NT--35--3907	Label Humidity Sensor	1

77-01009-11

24 Interrogator Kit

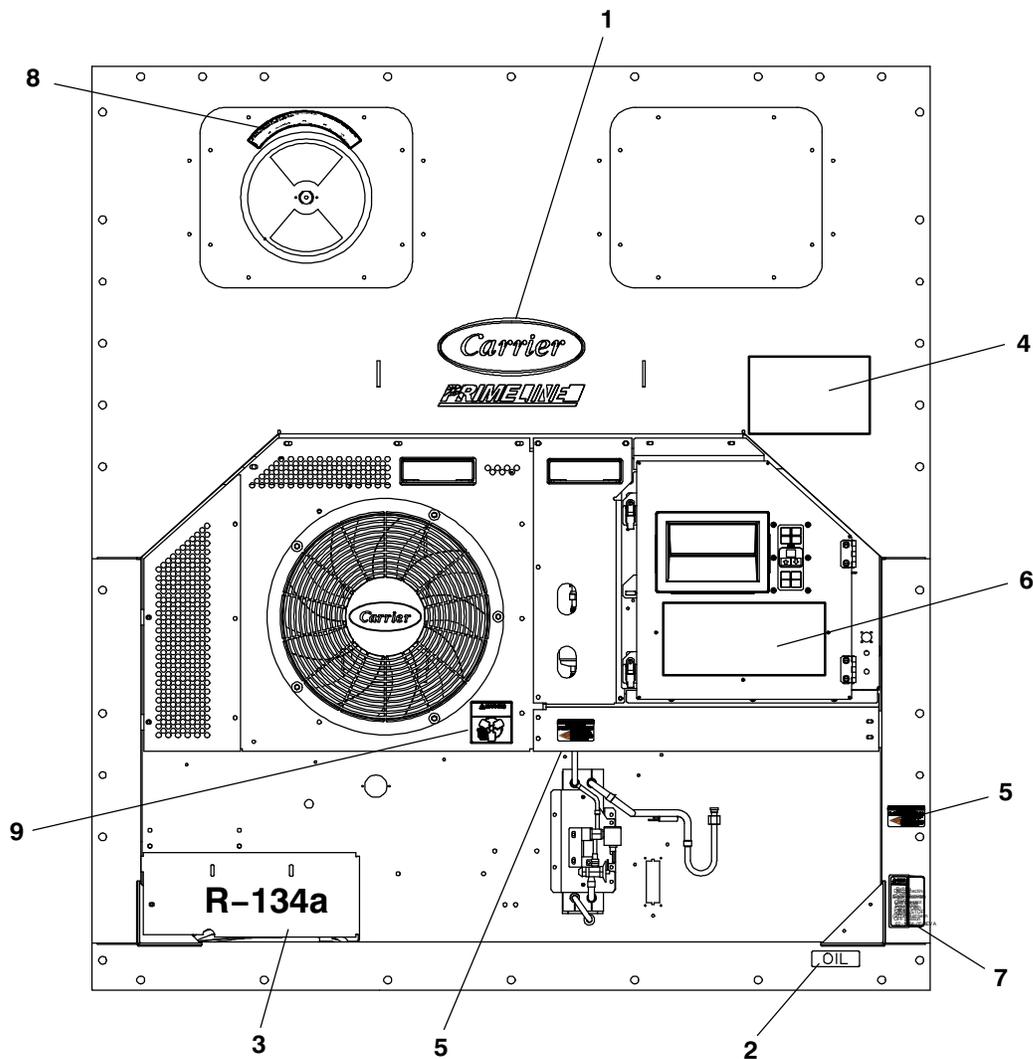


77-01608

Item	Part Number	Description	Qty
1	66-U---1--3882	Wire Tie 1/16-1-3/4	4
2	66-U---1--5321-8	Washer, Plain #10 Type A	2
3	68-17021-00	Bracket	1
4	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	2
5	22-01660-05	Dust Cap	1
6	34-06053-05	Washer .205 ID X .600 OD	2
7	34-06142-00	Rivet	4
8	58-01097-00	Cord, Nylon	1
9	22-02205-00	Connector	2

77-01608-01

25 Labels and Decals

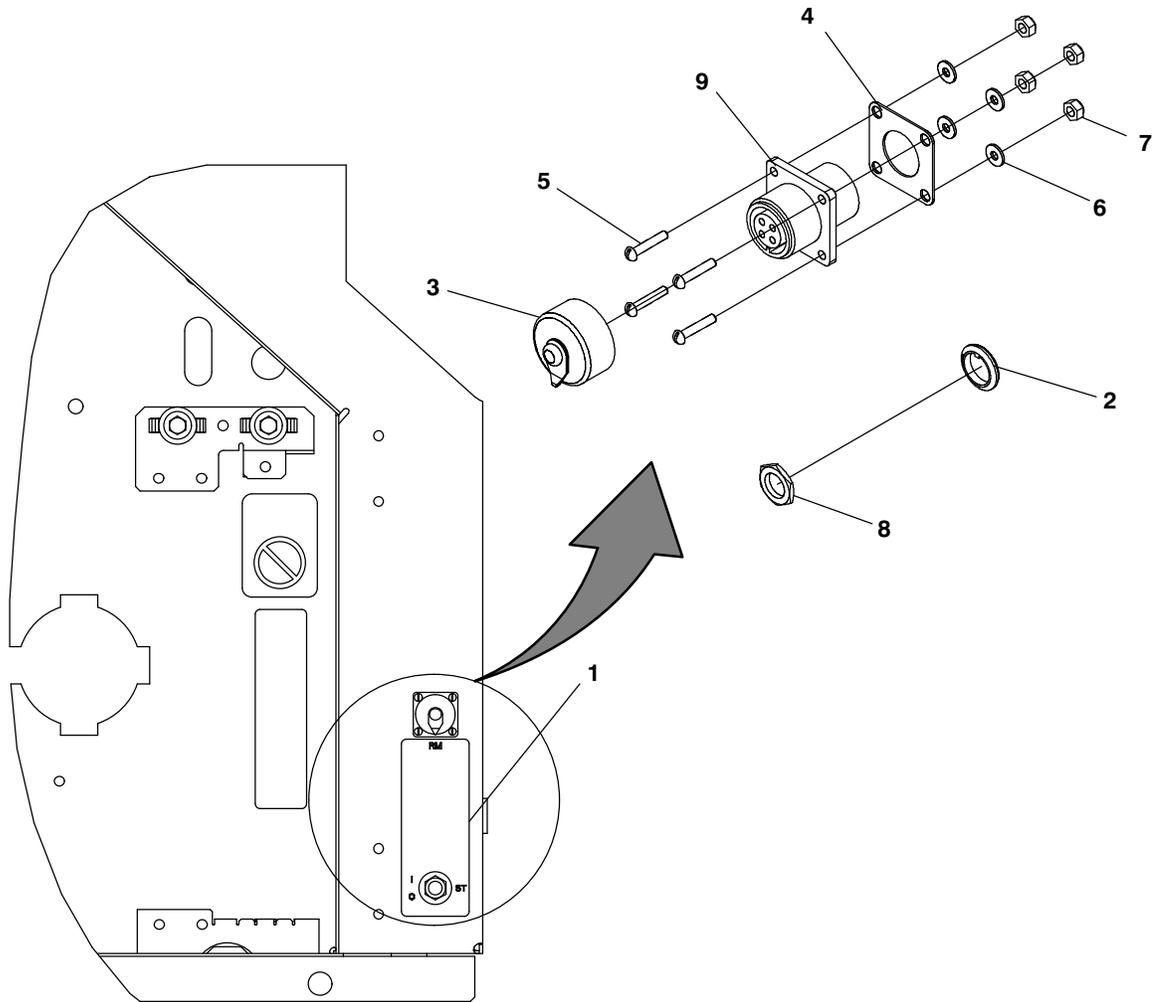


77-01691

Item	Part Number	Description	Qty
1	62-11424-00	Label, Carrier	1
2	62-11263-02	Label, Poe Compressor Oil	1
3	62-11252-00	Label, R-134A	1
4	62-66682-01	Label, Pti	1
5	62-66081-00	Label, Warning Refrigerant (R-134A)	2
6	62-11739-02	Label, Code-Ctn (English, Spanish)	1
7	62-11264-02	Label, Compressor Warning (English, Spanish)	1
8	62-02723-03	Label Upper Fresh Air	1
9	62-11735-03	Label Fan Warning (English, Spanish)	1

77-01690-00, 03, 04, 05

26 Panel Kit

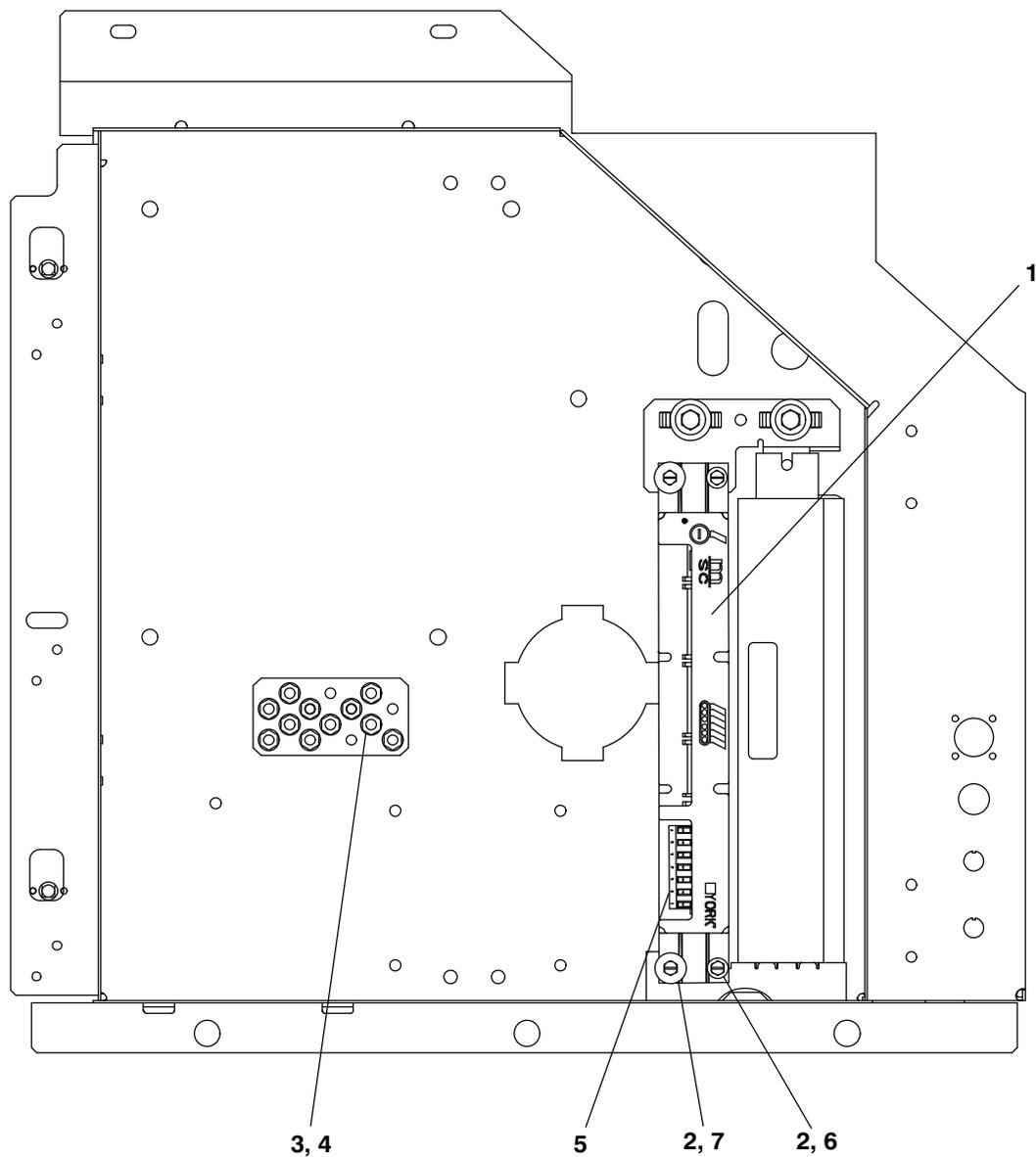


77-01716

Item	Part Number	Description	Qty
1	62-11731-02	Label St, Rm/Switch	1
2	66-U---1--9752	Seal	1
3	22-02341-01	Cap & Tether Receptacle Assembly	1
4	MS510074	Gasket	1
5	34-00848-10	Screw, Machine	4
6	66-U---1--5321-6	Washer, Plain .125 ID Type A	4
7	34-00667-05	Nut, Self Lock	4
8	10-01129-20	Nut, Hex 15/32-32	1
9	22-01604-00	Receptacle 4 Connections	1
NO RM RECEPTACLE			
1	62-11731-00	Label St, Rm/Switch	1
2	66-U---1--9752	Seal	1
8	10-01129-20	Nut, Hex 15/32-32	1

77-01716-00, 01

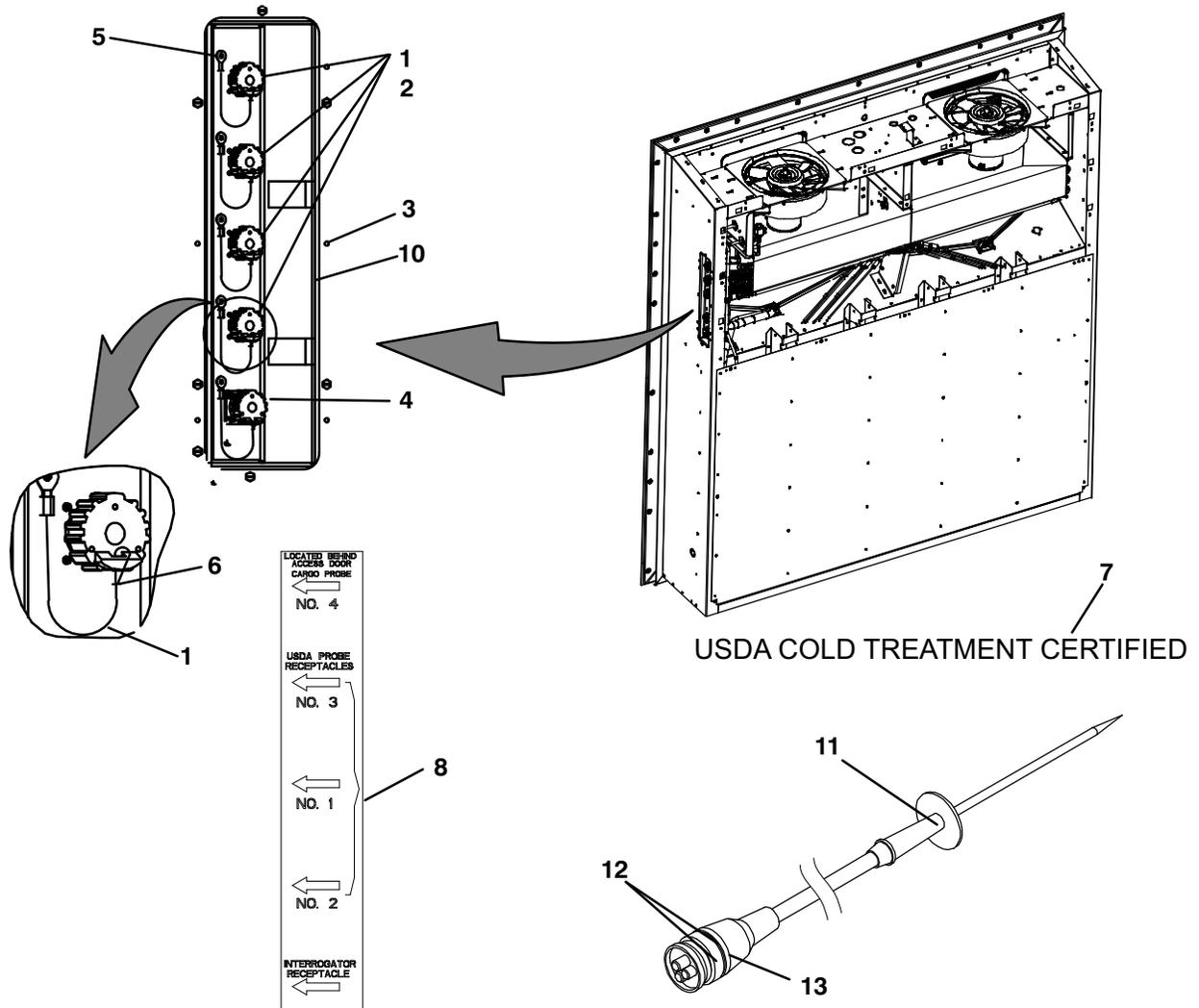
27 Remote Monitoring Unit (RMU) Kit



77-01517

Item	Part Number	Description	Qty
1	12-00573-00SV	RMU	1
2	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X .500	4
3	AT39JA171	Nut, Hex 43834	2
4	AU27JR171	Washer, Lock 1/4 Ext Tooth	2
5	22-01556-00	Connector	1
6	66-U---1--5321-8	Washer, Plain #10 Type A	2
7	69NT--35--2692-4	Washer, Fender #10-.743-.765 OD	2
8	58-00079-01	Sta-Strap	4

77-01517-00

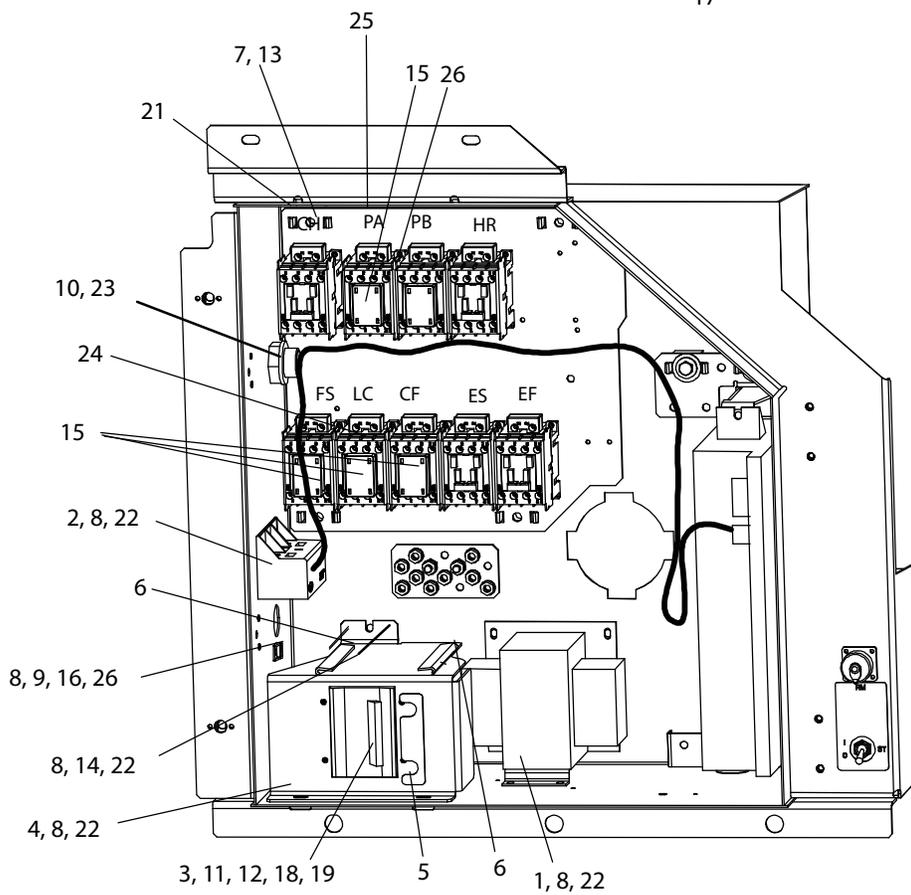
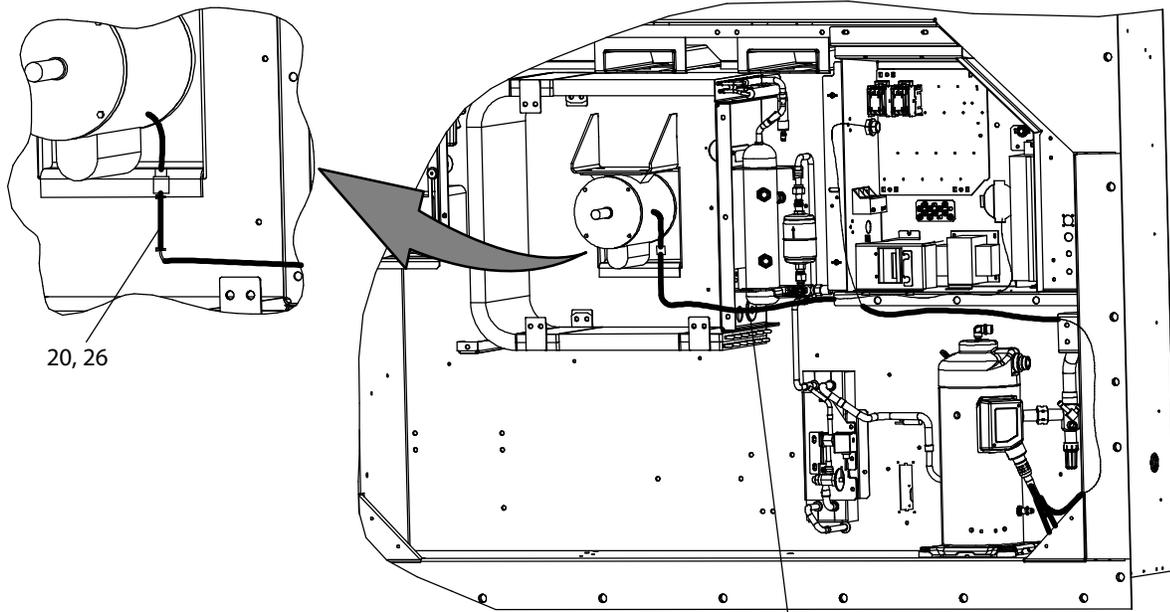


77-01651

Item	Part Number	Description	Qty
1	69NT--35---636-1	Tether Assembly	5
2	22-01660-02	Cap, Dust, (3-Pin Receptacle)	4
3	66-U---1--5371-7	Screw, Machine, Hex Head, #10-24 X 0.500 Slotted	6
4	22-01660-05	Cap, Dust (5-Pin Receptacle)	1
5	34-06142-00	Rivet, 0.110 Inch Diameter, 0.126-0.250	25
6	22-02205-00	Connector Splice, Non-Insulated	5
7	62-11275-00	Label, USDA Cold Treatment Certified	1
8	62-11729-00	Label, USDA	1
9	66-U---1--3882	Wire Tie, 1/16-1-3/4, Self-Locking	4
10	68-17023-00	Panel	1
USDA PROBE KIT			
11	12-50089-00	Sensor Assembly, 600 Inches Long (15M) (USDA Probe) - Includes:	A/R
12	22-50127-00	Plug, Socket (PR1, PR2, PR3, Cargo Probe 4)	1
13	22-01613-15	Contact, Socket, #16	A/R

77-01651-00

29 Wiring Kit



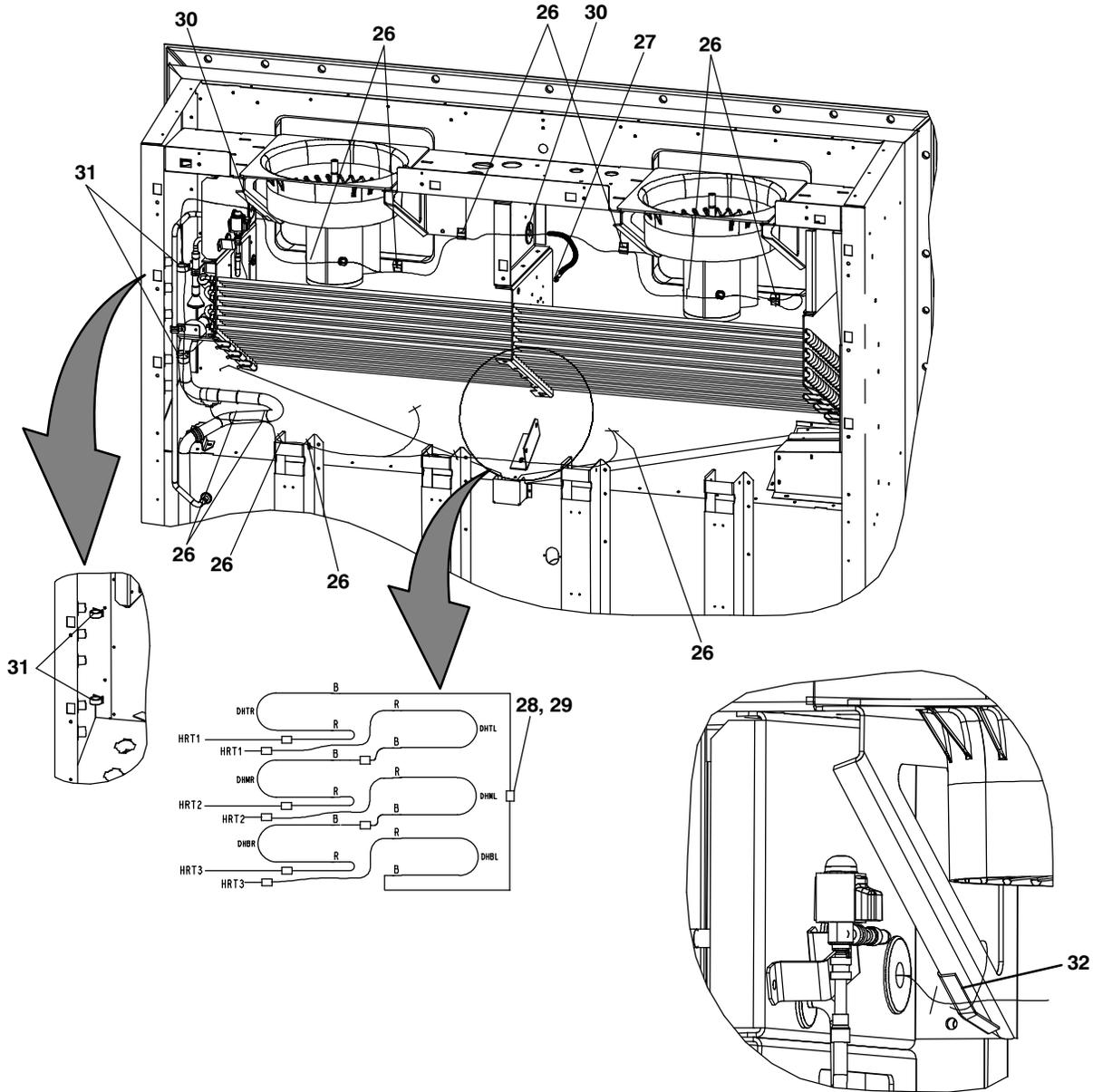
77-01665

29 Wiring Kit

Item	Part Number	Description	Qty
1	10-00332-21SV	Transformer	1
2	10-00439-01	Transformer, Current Sensing	1
3	66-U---1--7842-12	Circuit Breaker 3 Pole, 600 Volt	1
4	68-17405-00	Bracket	1
5	69NT--35--9073-1	Label CB1	1
6	66CH---1--1172-28	Trim, Flexible 6.00 Long	2
7	34-00655-08	Screw, Cap Hex Head 1/4-20 X 1.00	4
8	66-U---1--5371-7	Screw, Machine Hex Head #10-24 X 0.500	12
9	34-00663-09	Washer, Lock #10 Spring	1
10	66-U---1--7352-3	Connector Straight	1
11	66-U---1--6651-19	Screw, Machine Pan Head #6-32	4
12	34-00663-07	Washer, Lock #6 Spring	4
13	66-U---1--5321-7	Washer, Plain 1/4 W Type A	4
14	34-06053-14	Washer	1
15	10-00431-11	Cover Contactor	5
16	58-04246-00	Ty-Rap Base	1
17	58-00065-93	Grommet	1
18	66-U---1--7842-6	Nut, Hex	6
19	66-U---1--7842-7	Washer, Flat #10-32	12
20	58-00848-12	Tube, Slit 1/2 ID X 27 Lg Corr	1
21	58-00967-00	Spacer Locking (Sub-panel)	4
22	66-U---1--5321-8	Washer, Plain #10 Type A	11
23	66-U---1--1251-2	O-Ring 3/4 Hub Sealing	1
24	10-00431-00	Contactor 12 Amp (HR, CF, ES, EF)	4
25	10-00431-01	Contactor 30 Amp (PA, PB, CH)	5
26	10-00392-20	Interlock Contactor	1

77-01655-00

29 Wiring Kit

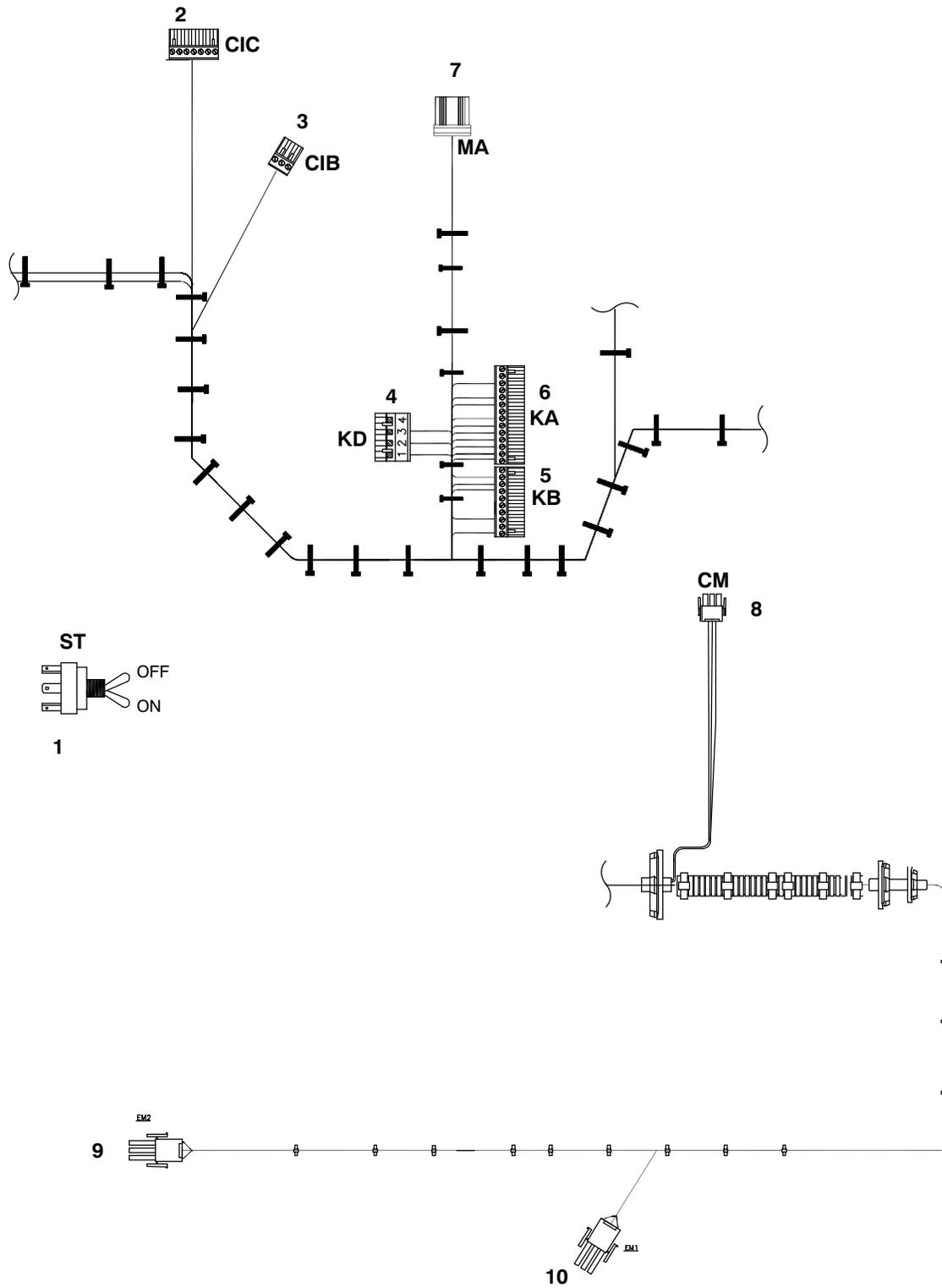


77-01665

Item	Part Number	Description	Qty
26	66-U---1--3882	Wire Tie 1/16-1-3/4 Self locking	44
27	34-01178-22	Screw, Hex Head #8-32 X .50L	1
28	66-U---1--3803	Tube, Heat Shrink .25 X 2.12 Blk	12
29	22-01292-02	Butt Splice	12
31	58-04273-00	Grommet	2
32	44-00361-00	Clip, Retaining	5
35	66CH---1--1172-43	Trim, Flexible 2.88 Long	6

77-01655-00

30 High Voltage Harness



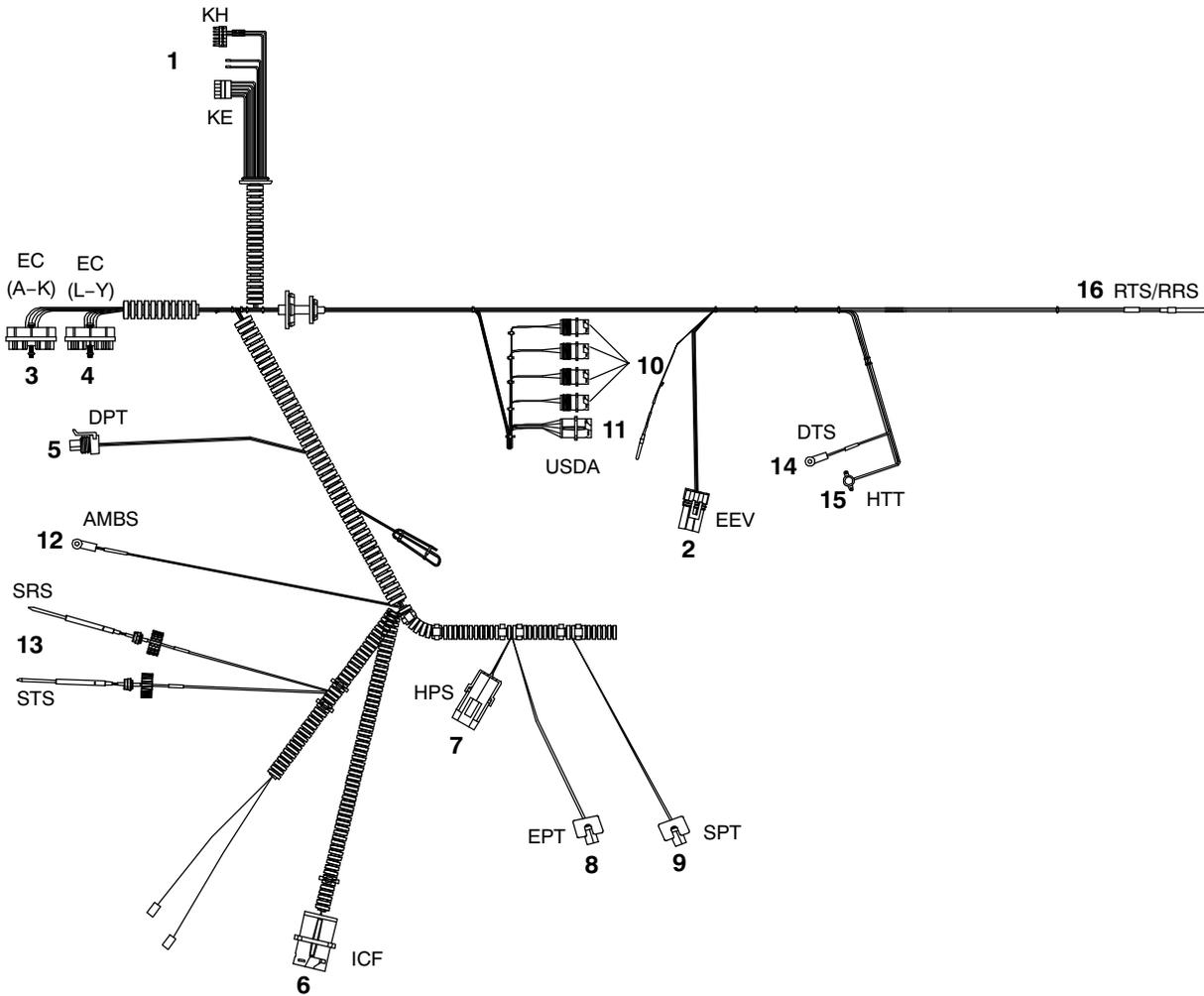
77-00438

30 High Voltage Harness

Item	Part Number	Description	Qty
1	10-01129-11	Switch, Toggle, Start/Stop (ST)	1
	91-00438-08	High Voltage Harness - Includes:	
2		CIC - Includes:	
	22-01556-06	Block	
	22-02324-09	Terminal	
3		CIB - Includes:	
	22-01556-04	Block	1
4		KD - Includes:	
	22-04031-00	Block	1
	22-04032-00	Terminal	4
5		KB - Includes:	
	22-01556-01	Block	1
	22-01735-00	Terminal	5
6		KA - Includes:	
	22-01556-02	Block	1
	22-01735-00	Terminal	10
7		MA - Includes:	
	22-01622-01	Block	1
	22-01622-03	Terminal	5
8		Condenser Fan Motor (CM) - Includes:	
	22-01997-12	Plug CM	1
	22-01997-06	Terminal	7
	22-01997-08	Sealing Plug	3
	22-01997-13	Wire Seal	1
	22-01997-14	Interface Seal	1
9		Evaporator Fan Motor 2 (EM2) - Includes:	
	22-01197-20	Plug, EM2	1
	22-01997-06	Terminal	7
	22-01997-08	Sealing Plug	3
	22-01997-21	Wire Seal	1
	22-01997-22	Interface Seal	1
10		Evaporator Fan Motor 1 (EM1) - 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

77-00438-08

31 Low Voltage Harness



22-04276

Item	Part Number	Description	Qty
	22-04299-00	Harness Low Voltage includes:	
1	22-66656-33	Harness (KH-KE-EEV) Includes	
		KH - Includes:	
	22-04016-00	Block	1
	22-01735-00	Terminal	2
		KE - Includes:	
	22-04031-01	Connector	1
	22-04032-00	Terminal	5
2		Electronic Expansion Valve (EEV) - Includes:	
	22-01835-00	Block	1
	22-01566-01	Terminal	5
	22-02394-02	Cable Seal	5
3		EC (A-K) - Includes:	
	22-01777-06	Seal	4
	22-01777-07	Retainer	2
	66-U---1--6651-24	Screw Pan Head 10-24-1.50 Inch Long SST	1

31 Low Voltage Harness

	22-01777-00	Connector	1
	22-01777-03	Terminal	21
	22-01777-02	Seal	4
4		EC(L-Y) - Includes:	
	22-01777-06	Seal	4
	22-01777-07	Retainer	2
	66-U---1--6651-24	Screw Pan Head 10-24-1.50 Inch Long SST	1
	22-01777-00	Connector	1
	22-01777-03	Terminal	21
5		Discharge Pressure Transducer (DPT) - Includes:	
	22-02448-00	Block	1
	22-01777-03	Terminal	3
6		ICF	
	22-01660-03	Block	1
	22-01613-14	Terminal	5
7		High Pressure Switch (HPS) - Includes:	
	22-02392-00	Block	1
	22-02393-01	Terminal	2
	22-02394-00	Seal	2
8		Evaporator Pressure Transducer (EPT) - Includes:	
	22-01944-00	Block	1
	22-01944-10	Gasket	1
	22-01944-05	Cap	1
	22-01777-03	Terminal	3
9		Suction Pressure Transducer (SPT) - Includes:	
	22-01944-00	Block	1
	22-01944-10	Gasket	1
	22-01944-05	Cap	1
	22-01777-03	Terminal	3
10		USDA - Includes:	
	22-01660-00	Connector	4
	22-01613-12	Terminal	8
	22-01614-06	Plug	4
11		USDA - Includes:	
	22-01660-03	Connector	1
	22-01613-12	Terminal	5
12	12-00495-00	Thermistor, Ambient (AMBS)	1
13	12-00395-01SV	Thermistor, Supply Recorder Sensor (SRS) / Supply Temp Sensor (STS)	2
14	12-00495-01	Thermistor, Defrost (DTS)	1
15	12-00170-08	Thermistor, Evaporator Defrost (HTT)	1
16	12-00500-01SV	Thermistor, Combo / Return (RTS / RRS)	1

22-04276-02

32 Tools

Item	Part Number	Description	
1	07-00176-11	Vacuum Pump, Dual Voltage/Dual Frequency	
2	07-00375-00	Stepper Motor Drive Tester	
3	07-00408-00	Stepper Jumper Assembly	
4	07-00462-00	Temperature Tester, 4-Lead	
5	07-00477-00	Inspection Mirror	
6	07-00228-00	Multimeter, Digital	
7	07-00229-00	Amprobe Clamp (Used with 07-00228-00)	
8	07-00238-00	Wrench, Service Valve	
9	07-00243-10	Multimeter, Digital (Fluke)	
10	07-00277-00	Kit, Static Dissipative (Used for Working on Electronic Components)	
11	07-00304-00	Ground Strap, Wrist (Used for Working on Electronic Components)	
12	07-00294-00	Gauge Set, Manifold - Fahrenheit / PSI	
13	07-00294-05	Gauge Set, Manifold - Centigrade / KPa	
14	07-00295-00	Detector, Leak	
15	07-00397-03	Extractor, Pin (Used on Fan Motor Plugs and Interrogator Plugs)	
16	07-00397-02	Crimper, Pin (Used on Fan Motor Plugs and Interrogator Plugs)	
17	07-00329-00	Extractor, Pin (Used on Controller Module Connectors)	
18	07-00330-00	Crimper, Pin (Used on Controller Module Connectors)	
19	07-00391-00	Application Gun (Used with 07-00390-00)	
20	07-00398-00	Software Card Programmer	
21	07-00409-00	1-1/8 Inch, 3/8 Inch Drive, Used on Economizer Valve	
22	07-00410-00	1-3/8 Inch, 3/8 Inch Drive, Used on Suction/Discharge Valve	
23	07-00418-00	Torx Driver Bit	
24	07-00512-00	Magnet Tool, Used to Open Valves	
Refer to Manual 62-03213			

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