

Parts Manual

Generator Set

with PowerCommand® 3201

DFEG (Spec C-H)

DFEH (Spec C-H)

DFEJ (Spec C-H)

DFEK (Spec C-H)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This catalog applies to Cummins Power Generation Generator Models DFEG, DFEH, DFEJ and DFEK as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set unless noted in the description column.

Engine parts that have been modified or added by Cummins Power Generation are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DFEG, DFEH, DFEJ, DFEK (50 Hertz)	QSX15-G8
DFEG, DFEH, DFEJ, DFEK (60 Hertz)	QSX15-G9

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
310DFEG/*	310,000	#	50	12	3	24VDC
350DFEG/*	350,000	#	60	12	3	24VDC
352DFEH/*	352,000	#	50	12	3	24VDC
400DFEH/*	400,000	#	60	12	3	24VDC
400DFEJ/*	400,000	#	50	12	3	24VDC
450DFEJ/*	450,000	#	60	12	3	24VDC
440DFEK/*	440,000	#	50	12	3	24VDC
500DFEK/*	500,000	#	60	12	3	24VDC

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

– Broad range reconnectible

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Abbreviations

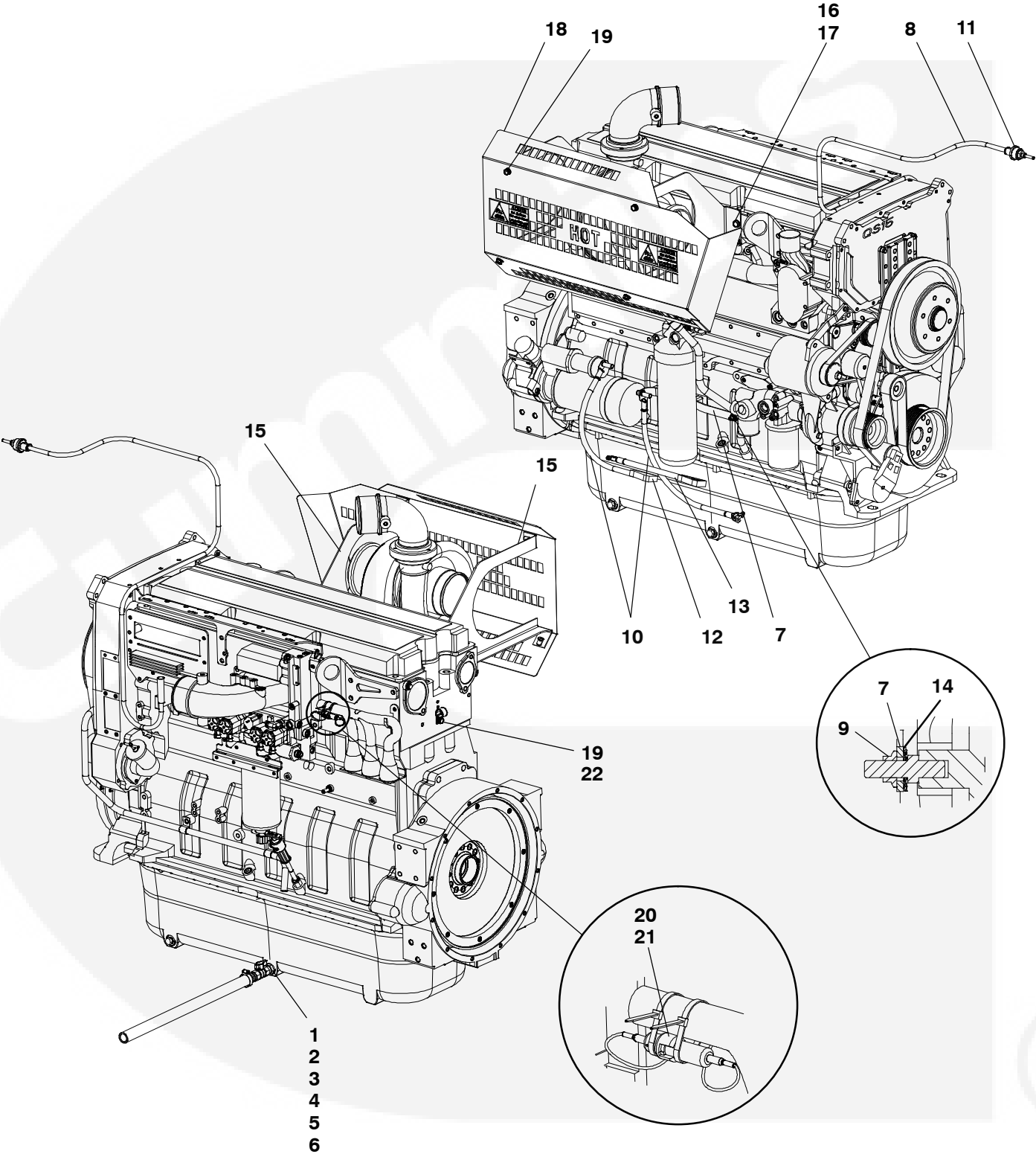
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EPROM	Erasable Programmable Read	PT/CT	Potential Transformer/Current
	Only Memory		Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical	Thk	Thick
	Commission	UL	Underwriters Laboratories Inc.
IT	Internal Tooth	UNC	Union National Coarse
kW	Kilowatt	UNF	Union National Fine
LPG	Liquid Petroleum Gas	VAC	Volts Alternating Current
LT	Left	VDC	Volts Direct Current
M(meter number)	Meter	W/(ET, IT, EIT)	With

Paint and Thread Sealant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Thread (6 ml Tube)				

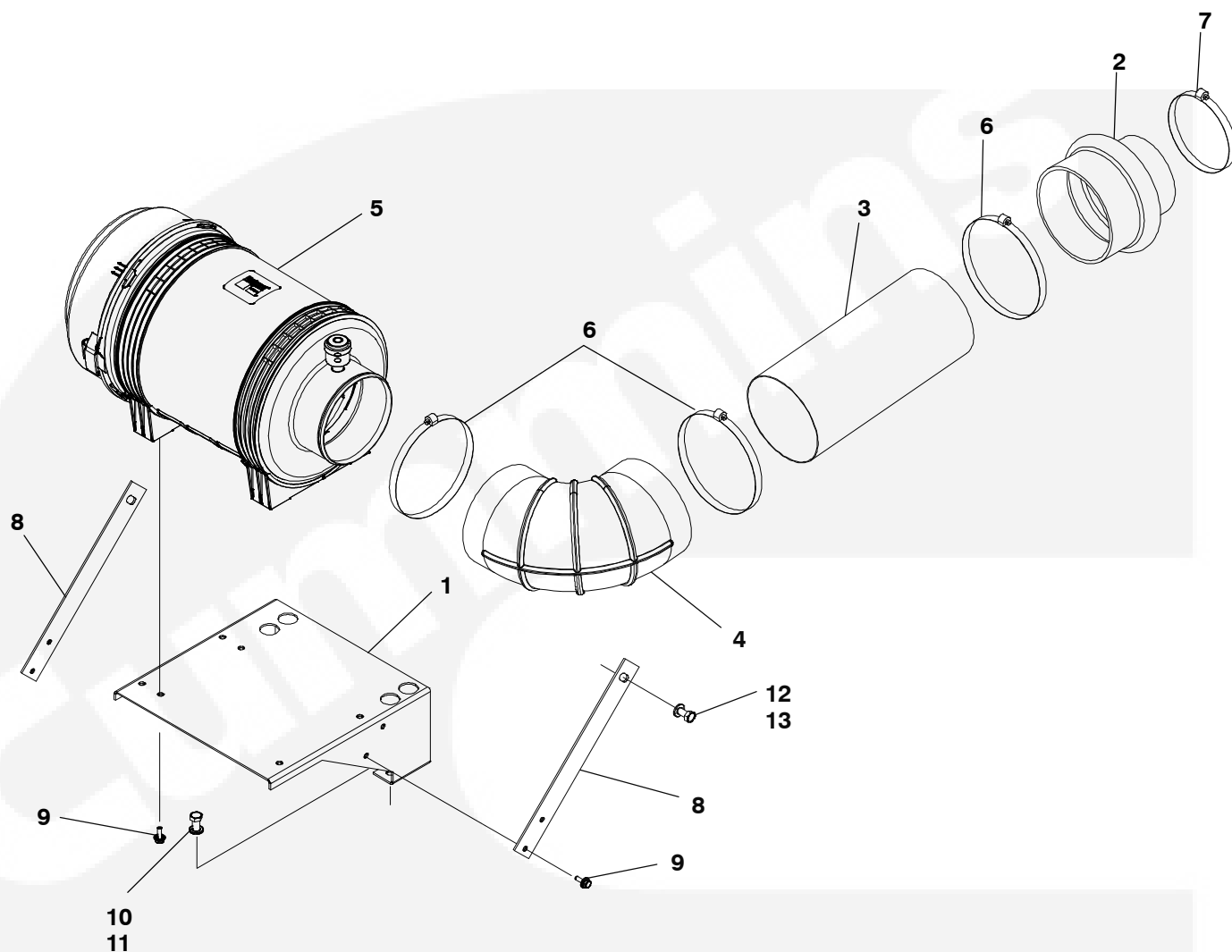
Engine Accessories



Engine Accessories

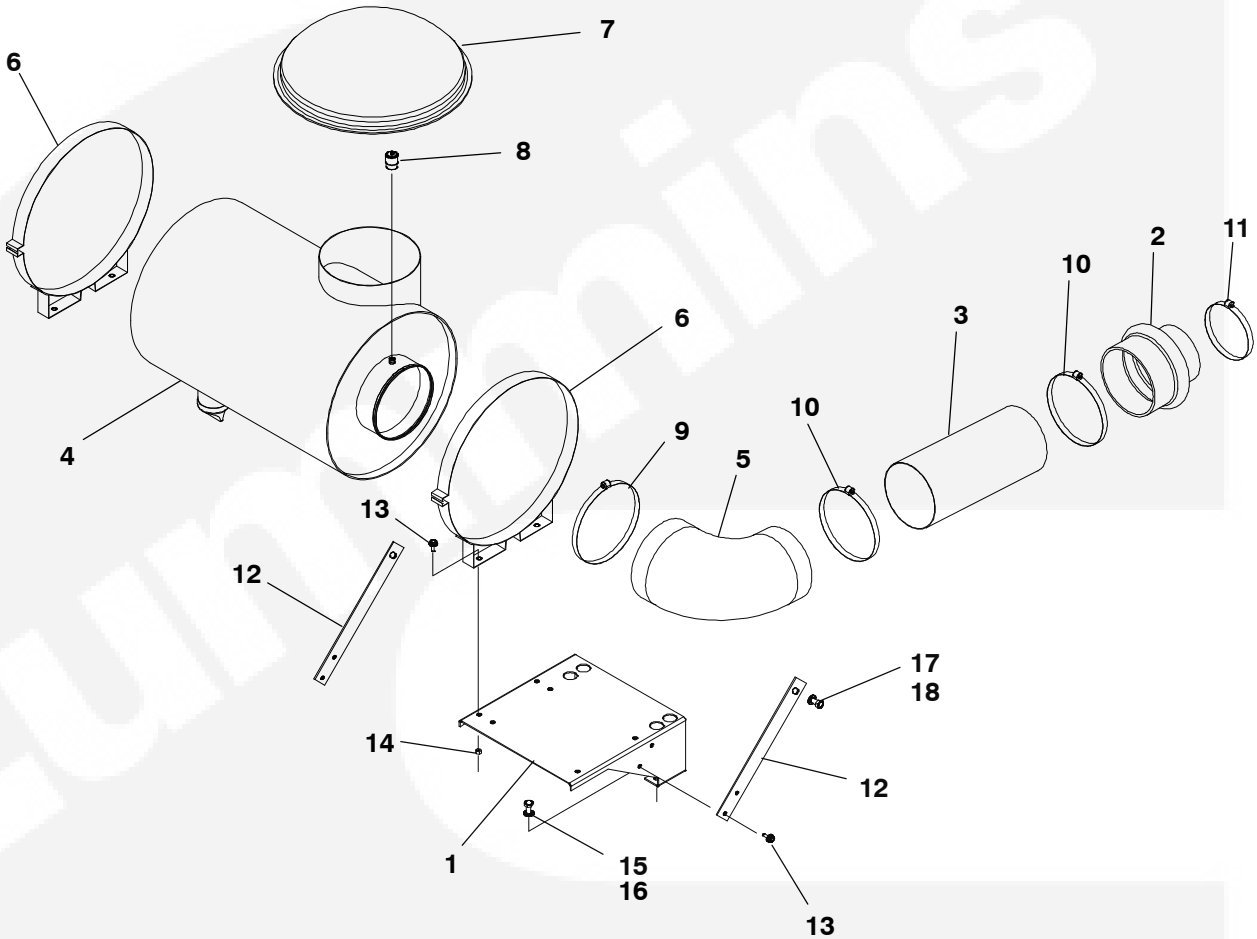
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	509-0353	1	Seal, O-Ring	12	416-1019	1	Boot, Battery – Red
2	502-1332-02	1	Adapter, Pipe	13	416-1096	1	Cable, Jumper
3	504-0171	1	Valve	14	856-0010	1	Washer, Lock – W/EIT (3/8)
4	502-0971	1	Connector, Hose	15	155-4126-02	2	Bracket, Heat Shield
5	503-2079	–	Hose, Heater – Bulk (Order by the Foot – 2 Feet Required)	16	850-0114-56	6	Washer, Lock – Split (M12)
6	503-0398	1	Clamp, Hose	17	800-3017-53	6	Screw, Cap – Hex Head (M12 x 1.75 x 25)
7	337-0090	1	Strap, Electrical	18	405-6632-03	1	Shield, Heat – Turbo
8	338-3938	1	Harness, Low Coolant Level	19	821-6004-01 A/R		Screw, Hex Head (M10 x 1.5 x 20)
9	870-2056	1	Nut, Hex – Flange Head – Self-Locking (M10 x 1.5)	20	321-0371	1	Holder, Fuse
10	416-1091	2	Cable, Battery	21	321-0372-07	1	Fuse
11	193-0486	1	Sender, Low Coolant Level	22	518-0548-20	1	Clamp, Hose

Air Cleaner Standard Duty



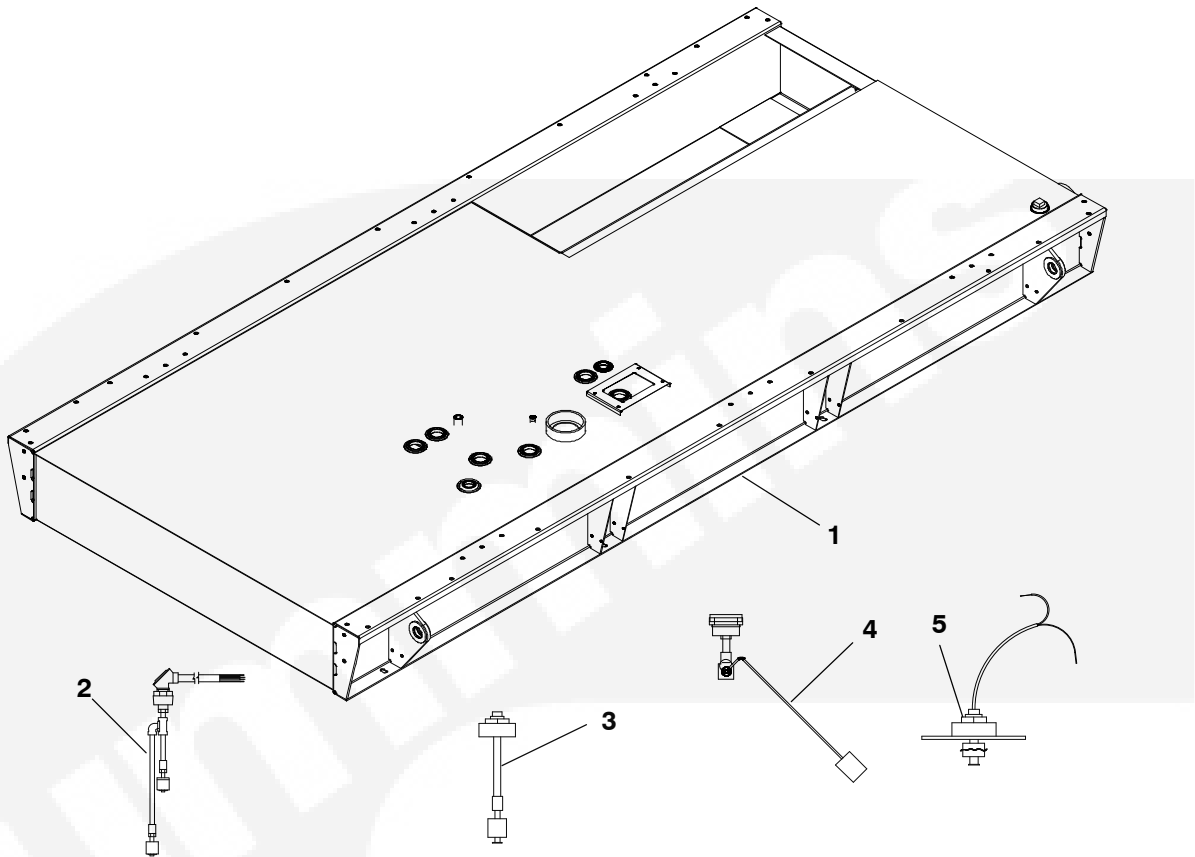
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3537-02	1	Bracket, Air Cleaner	9	821-6003-02	8	Screw, Hex Head (M8 x 1.25 x 20)
2	503-1675	1	Hose, Reducer	10	526-0399-64	4	Washer, Flat (M12)
3	140-3408-02	1	Tube, Air Cleaner - Inlet	11	800-0310-64	4	Screw, Cap - Hex Head (1/2-13 x 1.00)
4	503-0970	1	Elbow	12	526-2140	1	Washer, Flat (M12)
5	140-3288-02	1	Housing, Air Cleaner (Flame Retardant)	13	800-2111	1	Screw, Cap - Hex Head (M12 x 1.75 x 25)
6	503-1870-14	3	Clamp, Hose				
7	503-1870-10	1	Clamp, Hose				
8	140-3407-02	2	Bracket, Air Cleaner				

Air Cleaner Heavy Duty



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3537-02	1	Bracket, Air Cleaner	12	140-3407-02	2	Bracket, Air Cleaner
2	503-1675	1	Hose, Reducer	13	821-6003-02	8	Screw, Hex Head (M8 x 1.25 x 20)
3	140-3408-02	1	Tube, Air Cleaner – Inlet	14	870-2065-03	4	Nut, Hex – Flange (M8 x 1.5)
4	140-3230	1	Cleaner, Air	15	526-0399-64	4	Washer, Flat (M12)
5	503-1485	1	Elbow, Reducing – 90° (8" x 7")	16	800-0310-64	4	Screw, Cap – Hex Head (1/2-13 x 1.00)
6	140-2099	2	Band, Mounting	17	526-2140	1	Washer, Flat (M12)
7	140-2098	1	Hood, Air Inlet	18	800-2111	1	Screw, Cap – Hex Head (M12 x 1.75 x 25)
8	140-1548	1	Indicator, Service				
9	503-1871-04	1	Clamp, Hose				
10	503-1870-14	2	Clamp, Hose				
11	503-1870-10	1	Clamp, Hose				

Fuel Tank



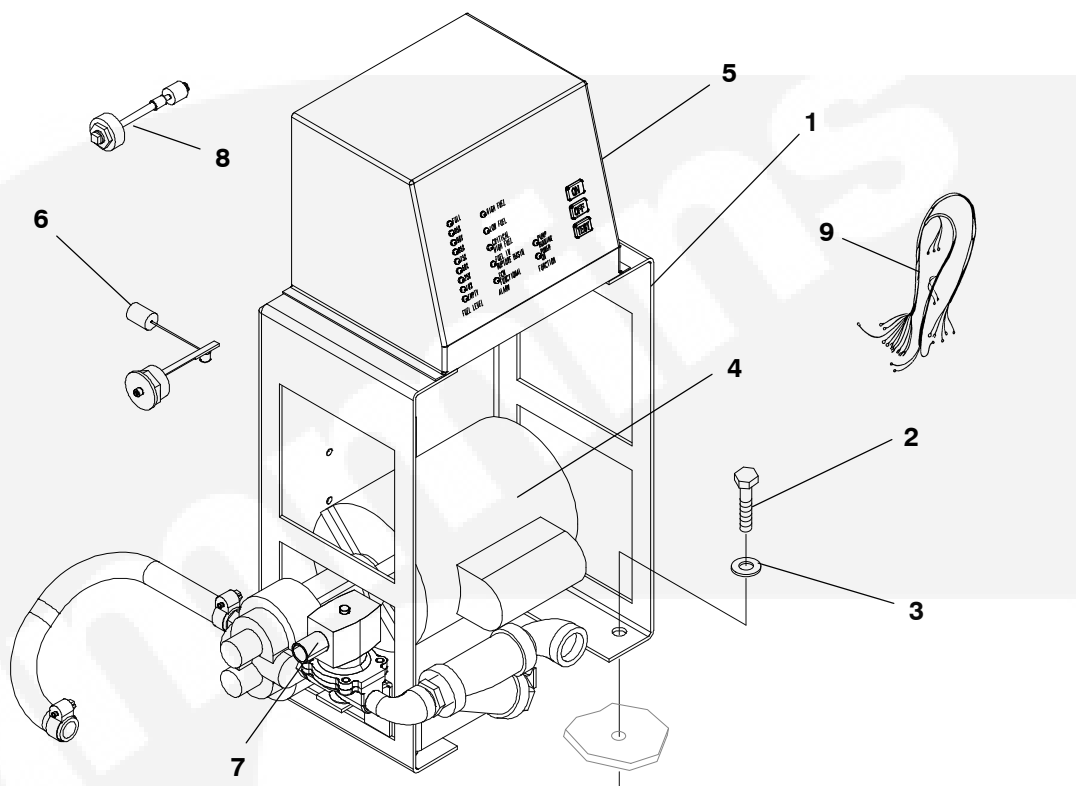
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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1			Tank, Fuel Standard (Chicago)
	159-1575-01	1	300 Gallon
	159-1575-02	1	400 Gallon
	159-1575-03	1	500 Gallon
	159-1575-04	1	600 Gallon
	159-1575-05	1	660 Gallon
	159-1575-06	1	850 Gallon
	159-1578-01	1	1700 Gallon
			California
	159-1575-11	1	300 Gallon
	159-1575-12	1	400 Gallon
	159-1575-13	1	500 Gallon
	159-1575-14	1	600 Gallon
	159-1575-15	1	660 Gallon
	159-1575-16	1	850 Gallon
			Florida
	159-1575-21	1	300 Gallon
	159-1575-22	1	400 Gallon
	159-1575-23	1	500 Gallon
	159-1575-24	1	600 Gallon
	159-1575-25	1	660 Gallon
	159-1575-26	1	850 Gallon

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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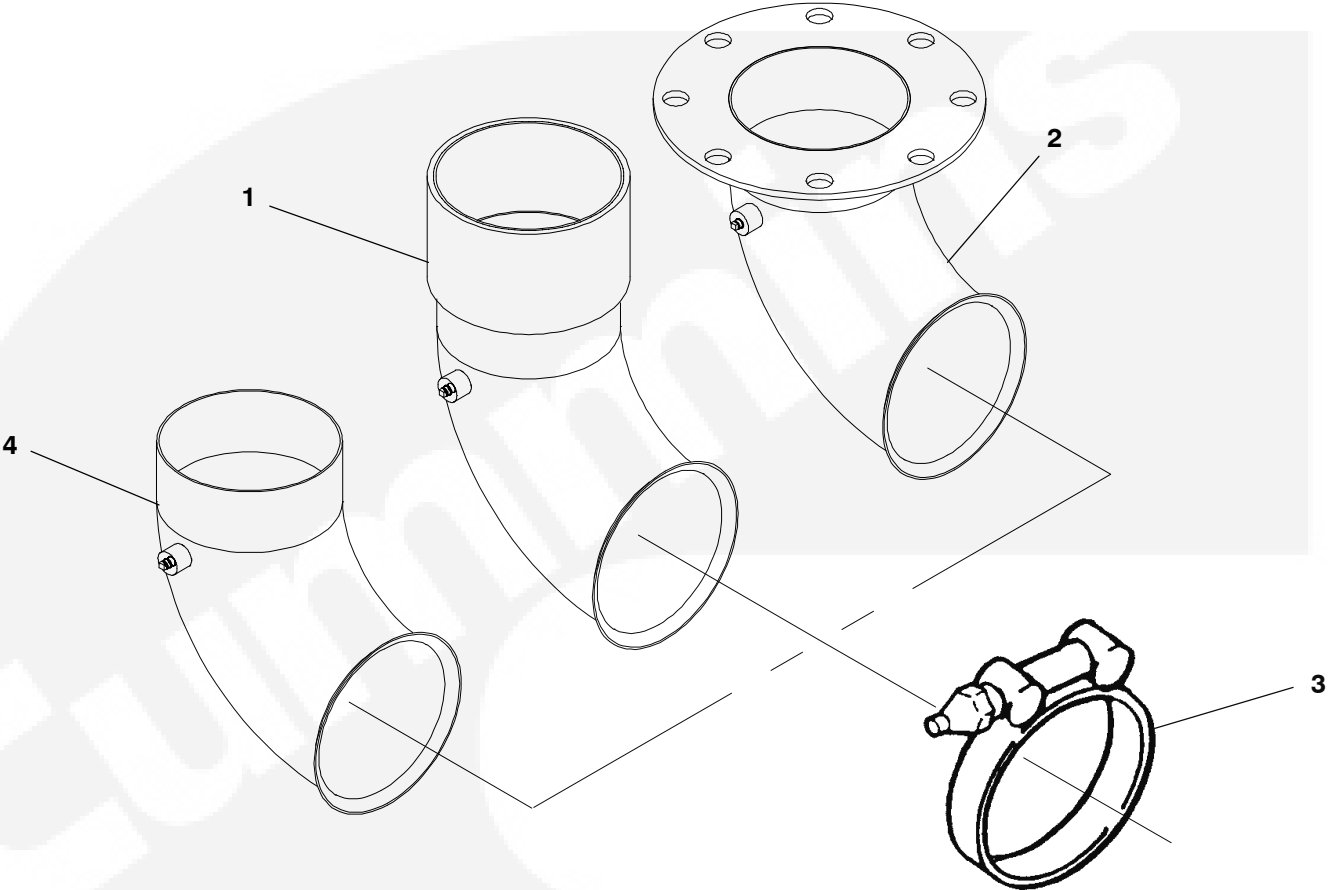
2			Switch, Level – High and Low
	309-0701-01	1	300 Gallon Tank
	309-0701-02	1	400 Gallon Tank
	309-0701-03	1	500 Gallon Tank
	309-0701-04	1	600 Gallon Tank
	309-0701-05	1	660 Gallon Tank
	309-0701-07	1	850 Gallon Tank
	309-0701-08	1	1700 Gallon Tank
3			Switch, Level – Rupture Basin
	309-0702-01	1	300 Gallon Tank
	309-0702-02	1	400 Gallon Tank
	309-0702-03	1	500 Gallon Tank
	309-0702-04	1	600 Gallon Tank
	309-0702-05	1	660 Gallon Tank
	309-0702-07	1	850 Gallon Tank
	309-0702-08	1	1700 Gallon Tank
4			Gauge – Fuel Level
	420-0609-01	1	300 Gallon Tank
	420-0609-02	1	400 Gallon Tank
	420-0609-03	1	500 Gallon Tank
	420-0609-04	1	600 Gallon Tank
	420-0609-05	1	660 Gallon Tank
	420-0609-07	1	850 Gallon Tank
	420-0609-08	1	1700 Gallon Tank
5			Switch, Level – Critical High
	309-0708-01	1	300-500 Gallon Tank
	309-0708-02	1	600-850 Gallon Tank

Fuel Transfer Pump and Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump, Fuel – Assembly	149-2710-03	1	7 GPM	
			2 GPM	5	300-5815-01	1	Control, Pump – ECM
149-2699-01	1		300 Gallon Tank	6			Gauge – Float
149-2699-02	1		400 Gallon Tank	420-0610-01	1		300 Gallon Tank
149-2699-03	1		500 Gallon Tank	420-0610-02	1		400 Gallon Tank
149-2699-04	1		600 Gallon Tank	420-0610-03	1		500 Gallon Tank
149-2699-05	1		660 Gallon Tank	420-0610-04	1		600 Gallon Tank
149-2699-06	1		720 Gallon Tank	420-0610-05	1		660 Gallon Tank
149-2699-07	1		850 Gallon Tank	420-0610-07	1		850 Gallon Tank
			4 GPM	420-0610-08	1		1700 Gallon Tank
149-2699-11	1		300 Gallon Tank	7	504-0252-01	1	Valve, Solenoid – Fuel
149-2699-13	1		500 Gallon Tank	8			Switch, Level – Critical
149-2699-14	1		600 Gallon Tank	309-0703-01	1		300 to 720 Gallon Tank
149-2699-15	1		660 Gallon Tank	309-0703-02	1		850, 1470 to 2525 Gallon Tank
149-2699-16	1		720 Gallon Tank				
149-2699-17	1		850 Gallon Tank	9	338-4426	1	Harness, Wiring
			7 GPM				
149-2699-21	1		1400, 1700, 2100, 2525 Gallon Tank				
2	526-0399-59	4	Washer, Flat (M6)	NOTE: Pump Control Assembly Includes:			
3	821-6002-03	4	Screw, Hex Head (M6 x 1 x 16)	503-1660-06	1		Hose (5/8" ID x 7/8" OD x 508mm)
4			Pump, Fuel – With Motor	502-0942	1		Barb, Hose – 90° (3/8 x 5/8)
	149-2710-01	1	2 GPM				
	149-2710-02	1	4 GPM				

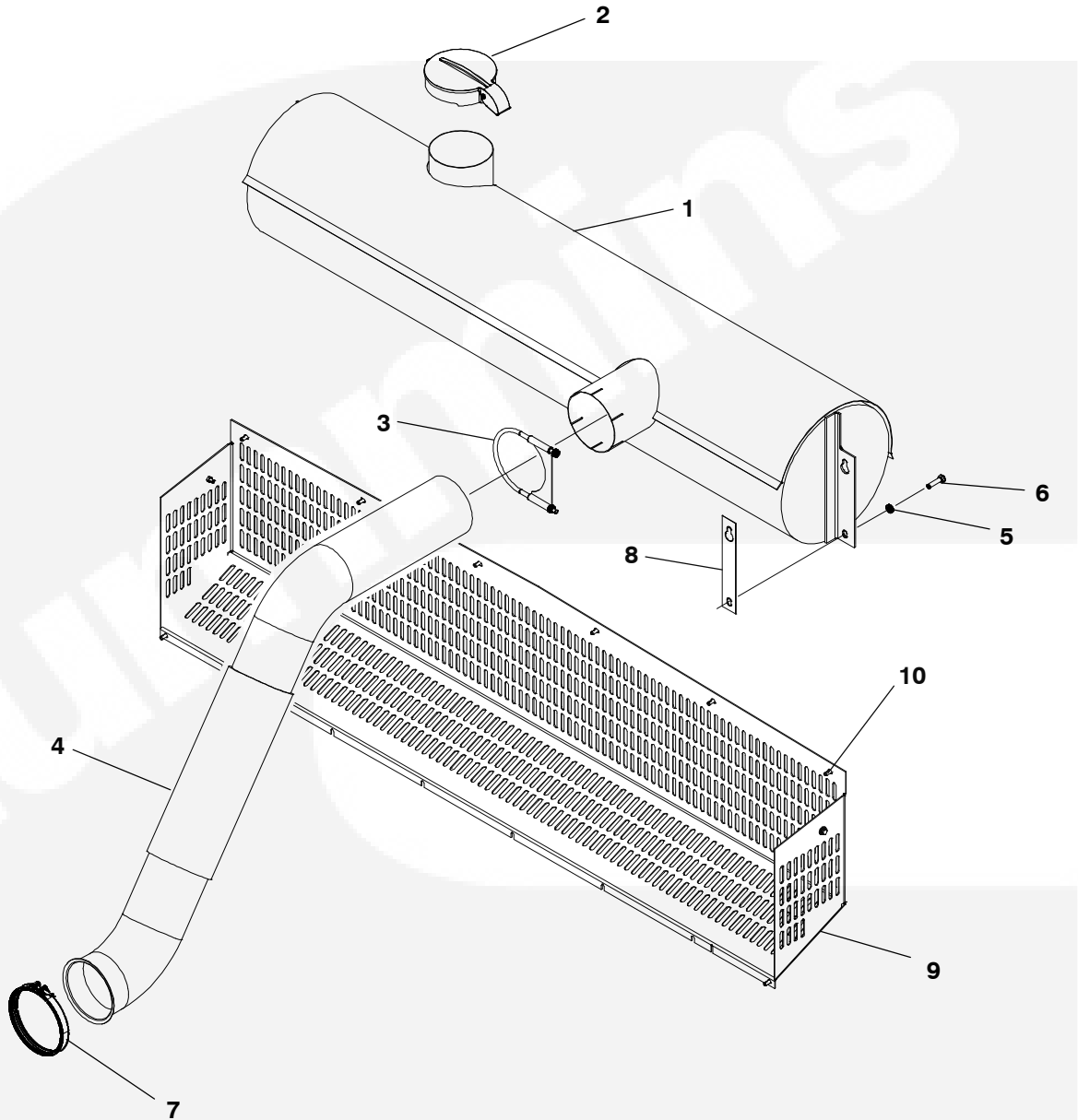
Exhaust Elbow



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3335-02	1	Elbow, Exhaust (NPT)
2	155-3369-02	1	Elbow, Exhaust (Flange)

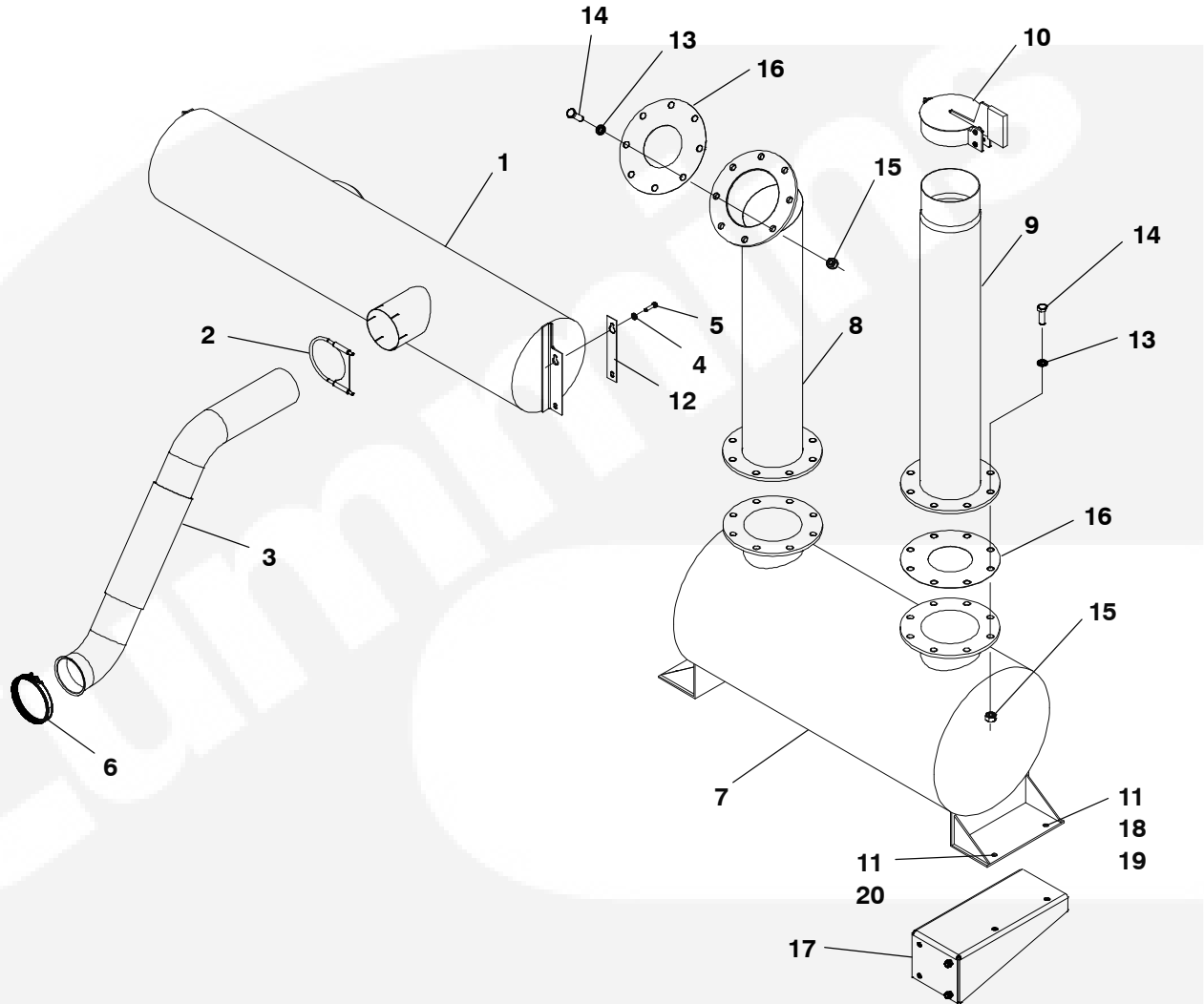
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	503-1575-03	1	Clamp, V-Band
4	155-3333-02	1	Elbow, Exhaust (Slip-On)

Muffler
F200, F201, F203, F204
Weather Protective, Level I Sound Enclosure



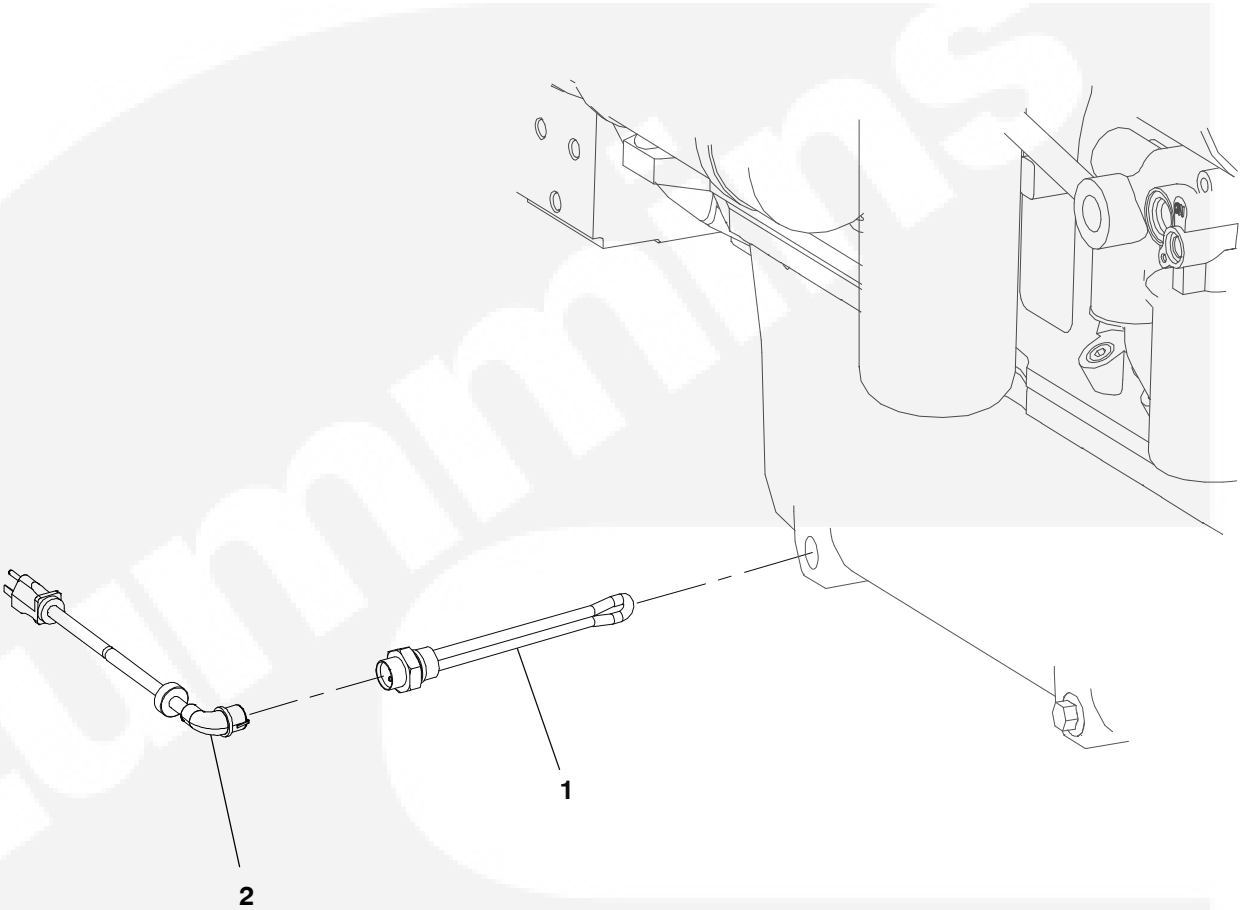
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4022	1	Muffler	7	503-1575-03	1	Clamp, V-Band
2	155-2062-06	1	Cap, Rain	8	155-4064	2	Gasket, Muffler
3	155-3543	1	Clamp, Exhaust	9	155-4162	1	Guard, Muffler
4	155-4051	1	Pipe, Exhaust		155-4059-02	1	Aluminum Steel
5	526-0174	6	Washer, Flat	10	821-6007-02	10	Screw, Hex Head (M8 x 1.25 x 20)
6	800-2089	6	Screw, Cap – Hex Head (M10 x 1.5 x 40)				

**Muffler
Critical
F202, F204
Level II Sound Enclosure**



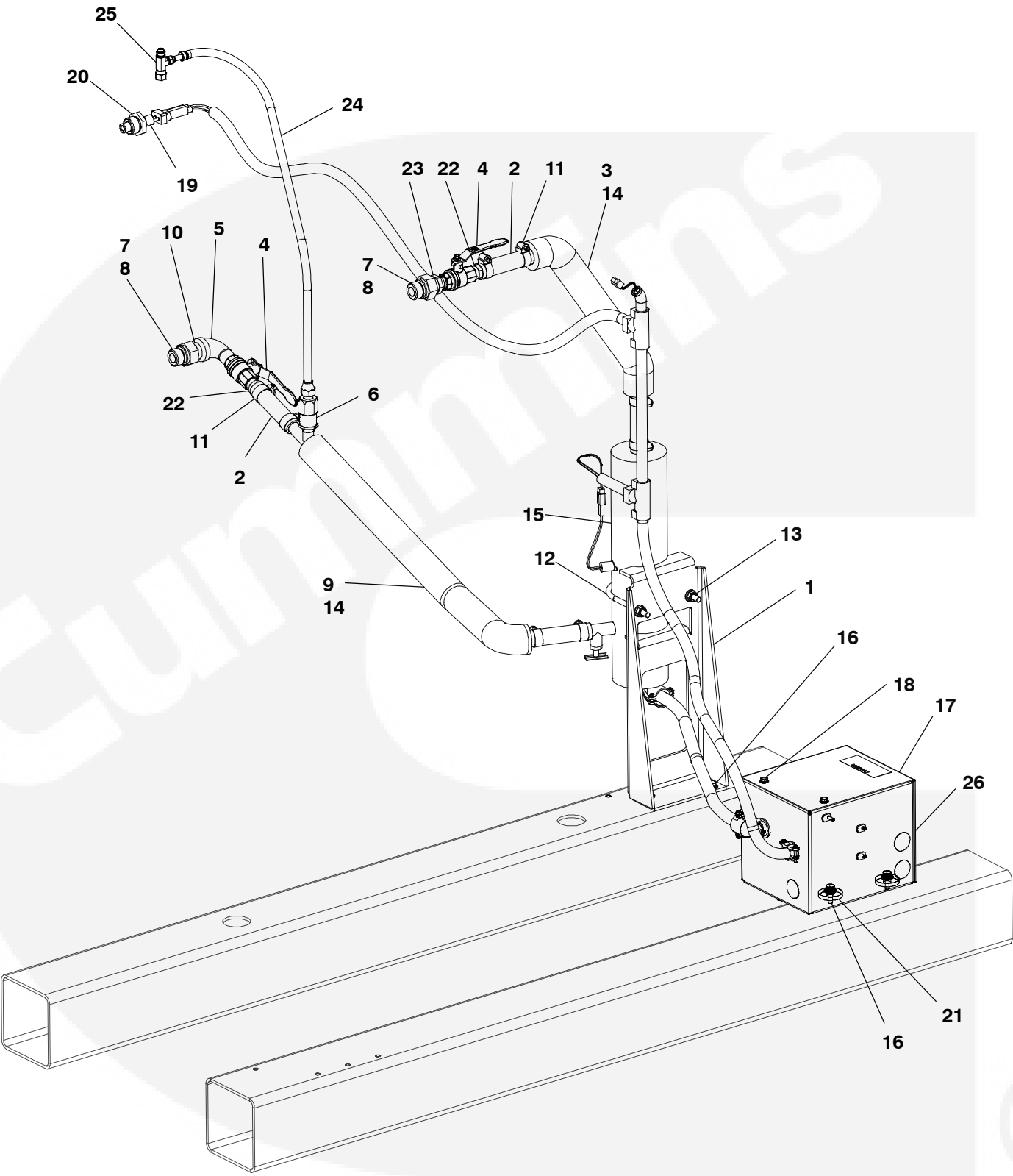
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4062	1	Muffler	13	850-0079	24	Washer, Spring – Lock (3/4)
2	155-3543	1	Clamp, Exhaust	14	800-0156	24	Screw, Cap – Hex Head (3/4–10 x 2.25)
3	155-4051	1	Pipe, Exhaust	15	862-0008-01	24	Nut, Hex – Heavy (3/4–10)
4	526-0174	6	Washer, Flat	16	155-2500	3	Gasket, Exhaust
5	800-2089	6	Screw, Cap – Hex Head (M10 x 1.5 x 40)	17	155-4048-02	2	Bracket, Muffler) – 12 and 24 Hour Tank
6	503-1575-03	1	Clamp, Hose	18	800-2114	8	Screw, Cap – Hex Head (M12 x 1.75 x 40) – 12 and 24 Hour Tank
7	155-4047	1	Muffler – Critical	19	860-2010	4	Nut, Hex (M12 x 1.75) – 48 and 72 Hour Tank
8	155-4045	1	Pipe, Exhaust (8" x 45°)	20	862-0026-57	4	Nut, Hex (M12 x 1.75) – 12 and 24 Hour Tank
9	155-4254	1	Tailpipe, Exhaust (8")				
10	155-3554	1	Cap, Rain				
11	526-2140	4	48 and 72 Hour Tank				
	526-2140	12	12 and 24 Hour Tank				
12	155-4064	2	Gasket, Muffler				

Oil Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0650	1	Heater, Elbow	2	335-0186-01	1	Cable, Oil Heater

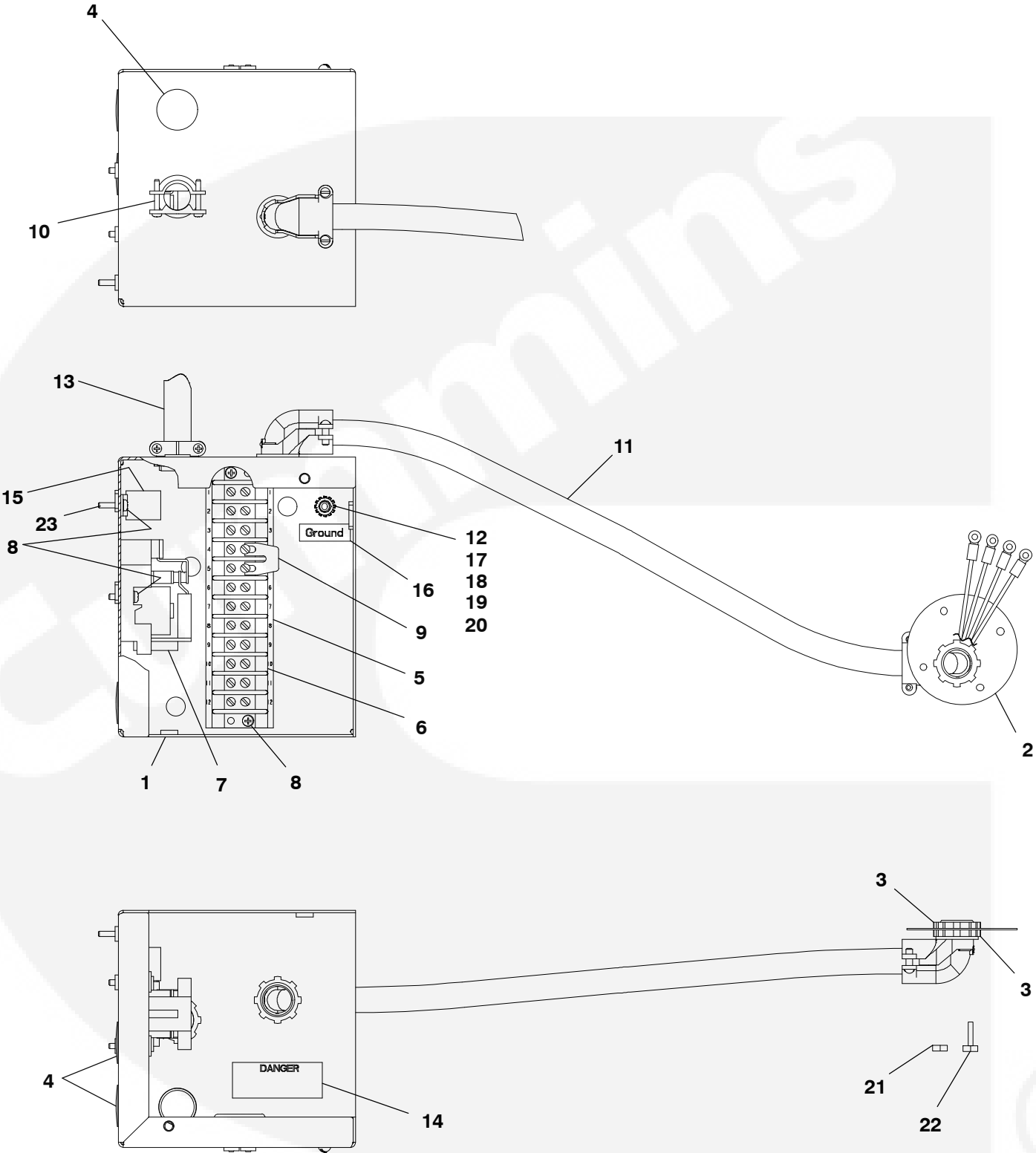
Coolant Heater



Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5174-02	1	Bracket, Coolant Heater	16	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
2	503-1634-01	4	Hose, Silicone Rubber	17	319-4788-02	1	Cover, Box
3	130-5173-02	1	Tube, Coolant Heater	18	821-5002-03	4	Screw, Hex Head (1/4-20 x .50)
4	504-0213	2	Valve, Ball	19	309-0649	1	Thermostat
5	505-1514	1	Elbow, Reducer - 90°	20	502-1321	1	Adapter, Coolant Heater
6	504-0215	1	Valve, Check	21	526-0128	2	Washer, Flat (15/32")
7	502-1333-02	2	Adapter (M27 x 3/4)	22	502-0827	1	Barb, Hose
8	509-0353	2	Seal, O-Ring	23	505-2166	1	Nipple, Pipe - Reducer (3/4 x 1/2)
9	130-5976-02	1	Tube, Water Heater	24	501-0687-03	1	Line, Engine Vent
10	505-0102	1	Nipple, Close (3/4 x 1.38)	25	502-1480	1	Tee, Tube (1/2-20)
11	503-2157-01	8	Clamp, Hose	26	-	1	Control Assembly, Coolant Heater (See Separate Page For Components)
12	155-3021	1	Clamp, Coolant Heater				
13	870-0550-09	2	Nut, Hex - Flange Head (3/8-16)				
14	128-0108	2	Insulation, Hose				
15			Heater, Coolant				
	333-0677-01	1	4990 Watt				
	333-0677-02	1	6420 Watt				

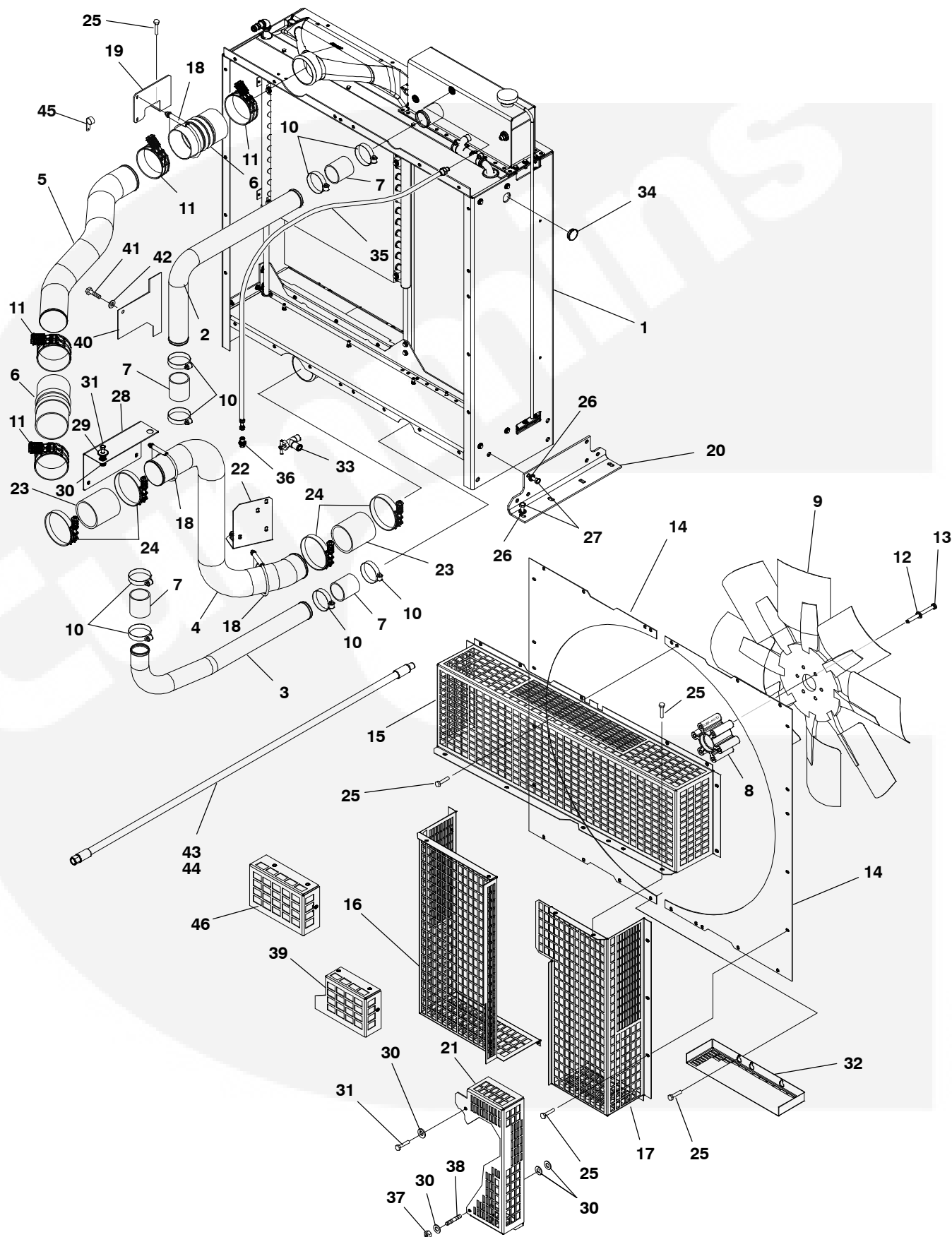
Coolant Heater Control



Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4787-02	1	Box, Terminal – Coolant Heater	15	307-2817-02	1	Relay
2	130-4552	1	Cover, Coolant Heater	16	098-2235-02	1	Label, Ground
3	331-0555	3	Nut, Connector – Lock (3/4)	17	815-0203	1	Screw, Machine – Round Head – Brass – W/ET (#10-32 x 7/8)
4	517-0138-02	3	Plug, Hole				
5	332-1469	1	Marker, Strip	18	856-0003	1	Washer, Lock – W/EIT (#10-32 x 7/8)
6	332-1468	1	Block, Terminal	19	871-0010	1	Nut, Hex – Brass (#10-32)
7	307-2859	1	Relay, Power	20	526-0049	2	Washer, Flat – Brass (#10)
8	815-0447	4	Screw, Cross Recessed – Round Head – Thread Cutting – W/IT (#8-32 x .75)	21	870-0131	3	Nut, Hex – W/ET (#10-32)
9	332-3440	1	Jumper, Terminal	22	815-0539	3	Screw, Cross Recessed – Pan Head – W/ET (#8-32 x .625)
10	331-0042	1	Connector, Romex (3/4)	23	815-0446	1	Screw, Round Head – Cross Recessed – Thread Cutting – W/IT (#8-32 x .50)
11	338-4105-10	1	Harness, Heater – Engine				
12	870-0131	1	Nut, Hex – W/ET (#10-32)				
13	338-4380	1	Harness, Heater				
14	098-5347-01	1	Label, Danger				

Radiator **40°C Ambient (Spec C-E)**

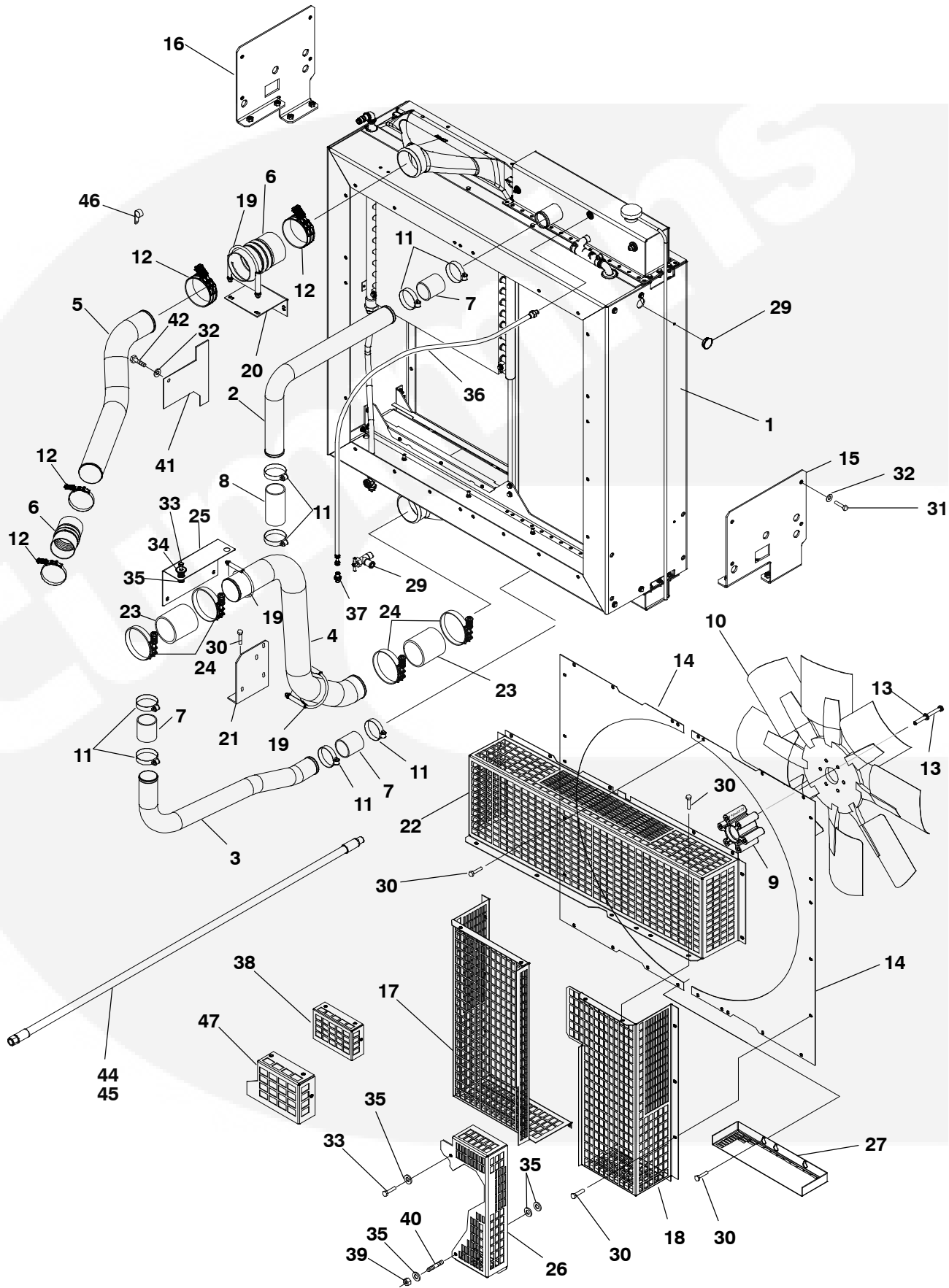


Radiator **40°C Ambient (Spec C-E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5178	1	Radiator (Includes Radiator Cap, Overflow Hose, Sight Gauge Service Repair Kit, Charge Air Cooler and Fuel Cooler)	20	130-5233-02	2	Bracket, Radiator
				21	191-2279-02	1	Guard, Alternator
				22	130-5234-02	1	Bracket, Air Tube
				23	503-2164	2	Hose, Coolant
				24	503-2155-02	4	Clamp, Hose
	130-3588-01	1	Cap, Radiator – 10 PSI	25	821-6003-02	36	Screw, Hex Head (M8 x 1.25 x 20)
	503-1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 6 Feet Required)	26	526-0399-64	9	Washer, Flat (M12)
				27	800-3017-54	14	Screw, Cap – Hex Head (M12 x 1.75 x 30)
	130-4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)	28	130-5209-02	2	Bracket, Air Tube
2	130-5179-02	1	Tube, Radiator	29	526-0014	2	Washer, Flat (7/16)
3	130-5180-02	1	Tube, Radiator	30	526-0174	10	Washer, Flat (.406)
4	130-5181-02	1	Tube, Air Intake	31	800-3017-37	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
5	130-5182-01	1	Tube, Air Discharge	32	130-5264-02	1	Guard, Fan
6	503-2154	2	Hose, Hump	33	504-0176	1	Valve, Oil Drain
7	503-1708	4	Hose, Radiator	34	517-0350	2	Plug, Hole
8	A049D580	1	Spacer, Fan	35	501-0687-02	1	Line, Engine Vent
9	130-5466	1	Fan, Engine	36	502-1330	1	Adapter – 37°
10	503-1872-04	8	Clamp, Hose	37	860-2009	1	Nut, Hex (M10 x 1.5)
11	503-2155-01	7	Clamp, Hose	38	520-1025-01	1	Stud
12	526-0219	6	Washer, Flat (1/2)	39	130-6130-02	1	Guard, Belt – Rotating Breather
13	800-0109	6	Screw, Cap – Hex Head (1/2-13 x 5.50)	40	130-5388-02	1	Guard, Pulley
14	130-5187-04	2	Panel, Fan Shroud	41	800-3017-52	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
15	130-6131-02	1	Guard, Fan – Top	42	526-0393	6	Washer, Flat
16	130-6133-02	1	Guard, Fan – Right Side	43	501-0689	1	Line, Flexible Fuel (Stub Up To Engine)
17	130-5251-02	1	Guard, Fan – Left Side	44	501-0689-03	1	Line, Flexible Fuel (Fuel Cooler To Stub Up)
18	155-3372	4	Clamp, Muffler	45	332-2634	3	Clip, J
19	130-5248-02	1	Bracket, Air Tube	46	130-6132-02	1	Guard, Belt – Impactor Breather



Radiator **50°C Ambient (Spec C-E)**

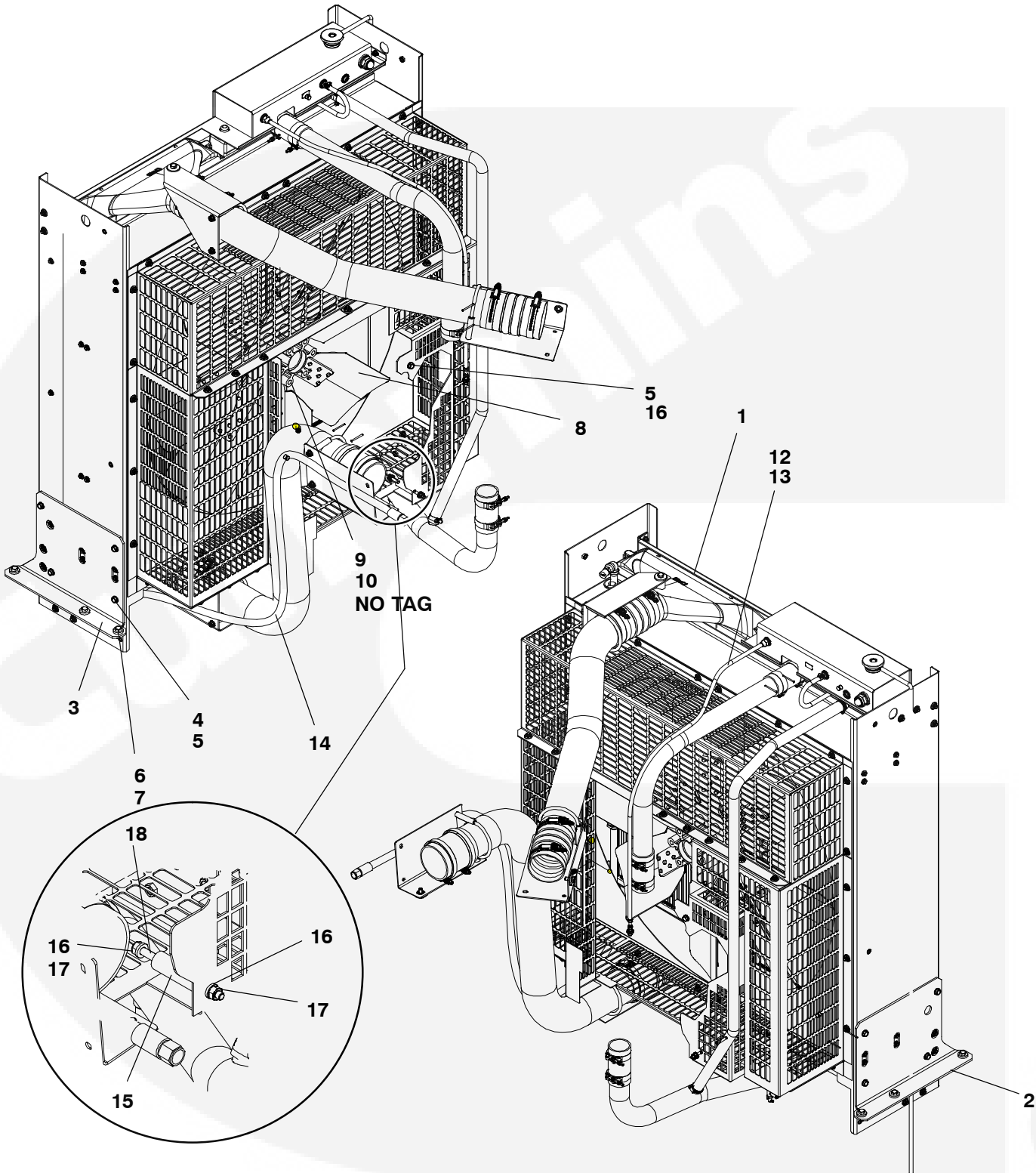


Radiator **50°C Ambient (Spec C-E)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5546	1	Radiator (Includes Radiator Cap, Overflow Hose, Sight Gauge Service Repair Kit, Fuel Cooler and Charge Air Cooler)	21	130-5234-02	1	Bracket, Air Tube
				22	130-6131-02	1	Guard, Fan – Top
				23	503-2164	2	Hose, Coolant
				24	503-2155-02	4	Clamp, Hose
				25	130-5209-02	2	Bracket, Air Tube
	130-3588-01	1	Cap, Radiator – 10 PSI	26	191-2279-02	1	Guard, Alternator
	503-1418	–	Overflow Hose – Bulk (1/4") (Order By The Foot – 6 Feet Required)	27	130-5264-02	1	Guard, Fan
				28	517-0350	2	Plug, Hole
				29	504-0176	1	Valve, Oil Drain
				30	821-6003-02	36	Screw, Hex Head (M8 x 1.25 x 20)
	130-4362	1	Sight Gauge Service Parts (Includes Glass Bulb and "O" Ring) (Not Illustrated)	31	800-3017-54	14	Screw, Cap – Hex Head (M12 x 1.75 x 30)
				32	526-0399-64	9	Washer, Flat (M12)
2	130-5179-02	1	Tube, Radiator	33	800-3017-37	3	Screw, Cap – Hex Head (M10 x 1.5 x 25)
3	130-5157-02	1	Tube, Radiator				
4	130-5159-02	1	Tube, Air Intake	34	526-0014	2	Washer, Flat (7/16)
5	130-5545	1	Tube, Air Discharge	35	526-0174	10	Washer, Flat (.406)
6	503-2154	2	Hose, Hump	36	501-0687-02	1	Line, Engine Vent
7	503-1708	3	Hose, Radiator	37	502-1330	1	Adapter – 37°
8	503-1708-01	1	Hose, Radiator	38	130-6132-02	1	Guard, Belt
9	A049D580	1	Spacer, Fan	39	860-2009	1	Nut, Hex (M10 x 1.5)
10	130-5183	1	Fan, Engine	40	520-1025-01	1	Stud
11	503-1872-04	8	Clamp, Hose	41	130-5388-02	1	Guard, Pulley
12	503-2155-01	7	Clamp, Hose	42	800-3017-52	1	Screw, Cap – Hex Head (M12 x 1.75 x 20)
13	526-0219	6	Washer, Flat (1/2)				
14	130-5187-02	2	Panel, Fan Shroud	43	526-0393	6	Washer, Flat
15	130-5507-02	1	Bracket, Radiator – Left Side	44	501-0689	1	Line, Flexible Fuel (Stub Up To Engine)
16	130-5508-02	1	Bracket, Radiator – Right Side				
17	130-6133-02	1	Guard, Fan – Right Side	45	501-0689-03	1	Line, Flexible Fuel (Fuel Cooler To Stub Up)
18	130-5251-02	1	Guard, Fan – Left Side				
19	155-3372	4	Clamp, Muffler	46	332-2634	3	Clip, J
20	130-5535-02	1	Bracket, Air Tube	47	130-6130-02	1	Guard, Belt – Rotating Breather



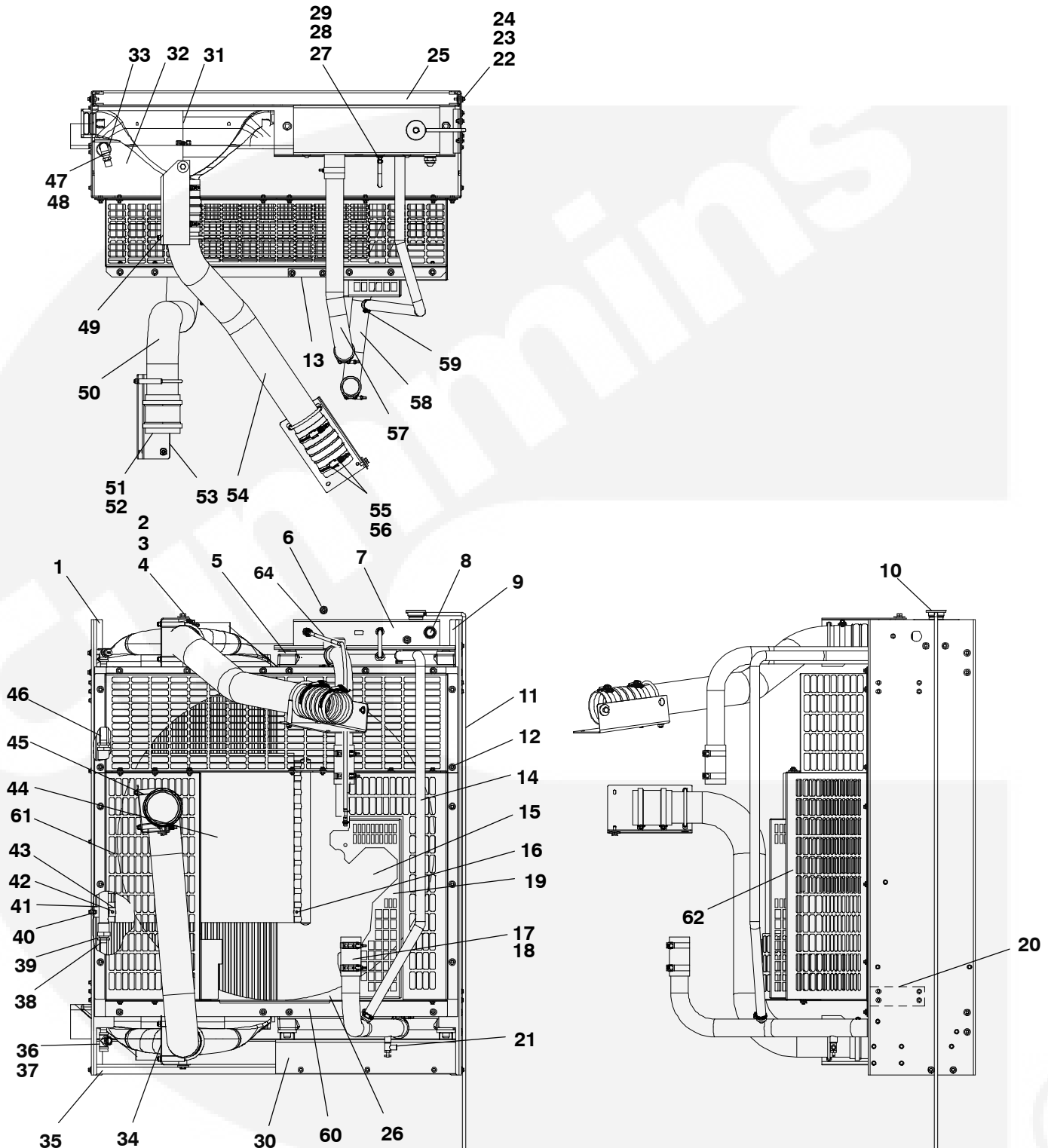
Cooling System (Begin Spec F)



Cooling System (Begin Spec F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6815	1	Radiator (See Page 29 for Service Parts)	10	526-0219	6	Washer, Flat
2	130-6533-02	1	Bracket	11	A035L463	6	Screw, Hex Head
3	130-6532-02	1	Bracket	12	501-0687-02	1	Line, Engine Vent
4	526-0399-62	8	Washer, Flat	13	502-1330	1	Adapter
5	800-3017-37	9	Screw, Hex Head	14	A029C145	1	Hose, Fuel
6	526-0393	6	Washer, Flat	15	130-6373-02	1	Spacer
7	800-3017-54	6	Screw, Hex Head	16	526-0174	3	Washer, Flat
8	130-6295	1	Fan, Radiator	17	860-2009	2	Nut
9	A049D580	1	Spacer, Fan	18	520-1025-02	1	Stud

Radiator (Begin Spec F)

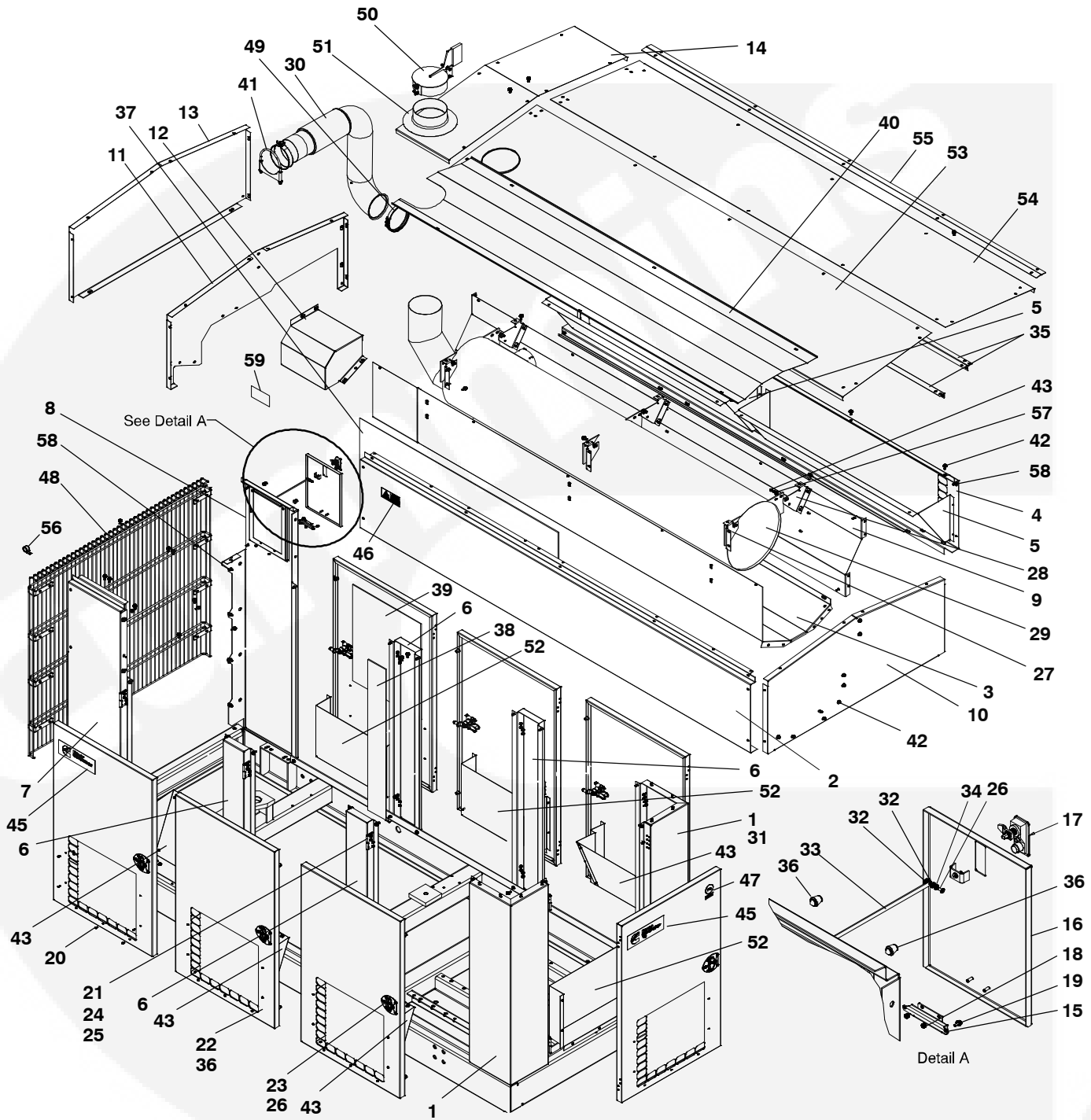


Radiator (Begin Spec F)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130-6815	1	Radiator Assembly (Includes Parts Listed Below)	32	130-6920	1	Shroud, Radiator
1	130-6908	1	Frame, Heat Exchanger – Left	33	508-1258	2	Grommet
2	800-3017-37	4	Screw, Cap – Hex Head	34	130-6921	1	Bracket, Radiator
3	130-6910	4	Bracket, Radiator	35	130-6922	1	Frame, Heat Exchanger
4	850-0114-55	4	Washer, Spring – Lock	36	505-1379	1	Plug, Pipe
5	402-0894	4	Isolator, Vibration	37	505-1051	1	Tee, Pipe
6	505-1048	3	Plug, Square Head – Plastic	38	505-2321	1	Nipple, Pipe
7	130-6913	1	Tank, Radiator	39	505-0022	2	Bushing, Reducer
8	130-6389	1	Gauge, Sight	40	870-2065-03	38	Nut, Hex – Flange
9	130-6911	1	Frame, Heat Exchanger – Right	41	102-1529	2	Bracket, Oil Cooler
10	130-6392	1	Cap, Pressure	42	812-1156	2	Screw, Slotted – Round Head
11	503-0276	1	Hose (2080mm)	43	402-0893	4	Isolator, Vibration
12	821-6003-02	63	Screw, Hex Head	44	102-1530	1	Cooler, Oil
13	130-6935	1	Guard, Radiator	45	155-3372	4	Clamp, Muffler
14	503-1779	1	Hose, Radiator	46	505-2322	1	Nipple, Pipe
15	130-6930	1	Radiator – Core	47	505-0040	1	Elbow
16	821-2097-11	2	Screw, Locking – Flange Head	48	502-1045-06	1	Connector, Male
17	130-6390	4	Tube, Water	49	130-6923	1	Bracket, Tube
18	503-1872-04	8	Clamp, Hose CT	50	130-6927	1	Tube, Heat Exchanger
19	191-2397	1	Guard, Alternator	51	503-2164	2	Hose, Coolant
20	130-6914	1	Guard, Radiator	52	503-1872-09	4	Hose, Clamp
21	504-0176	1	Valve, Oil Drain	53	130-6924	2	Bracket, Tube
22	821-6003-03	13	Screw, Hex Head	54	130-6926	1	Tube, Heat Exchanger
23	850-0114-54	30	Washer, Lock – Spring	55	503-2154	2	Hose, Hump
24	526-0399-61	42	Washer, Flat	56	503-2995-22	4	Hose, Clamp
25	130-6915	2	Duct, Radiator	57	130-6928	1	Tube, Water Inlet
26	130-6916	2	Shroud, Fan	58	130-6929	1	Tube, Water Outlet
27	502-1559	2	Connector, Hose	59	503-1872-01	2	Clamp, Hose CT
28	503-0685	2	Clamp, Hose	60	130-6934	1	Guard, Radiator Fan – Bottom
29	503-2742	1	Hose, Vent	61	130-6933	1	Guard, Radiator Fan – Left
30	130-6917	1	Guard, Radiator	62	130-6932	1	Guard, Radiator Fan – Right
31	154-3206	1	Cooler, Charge Air	63	130-6931	1	Guard, Radiator Fan – Top
				64	501-0687-02	1	Line, Engine Vent



**Enclosure
(F184)**



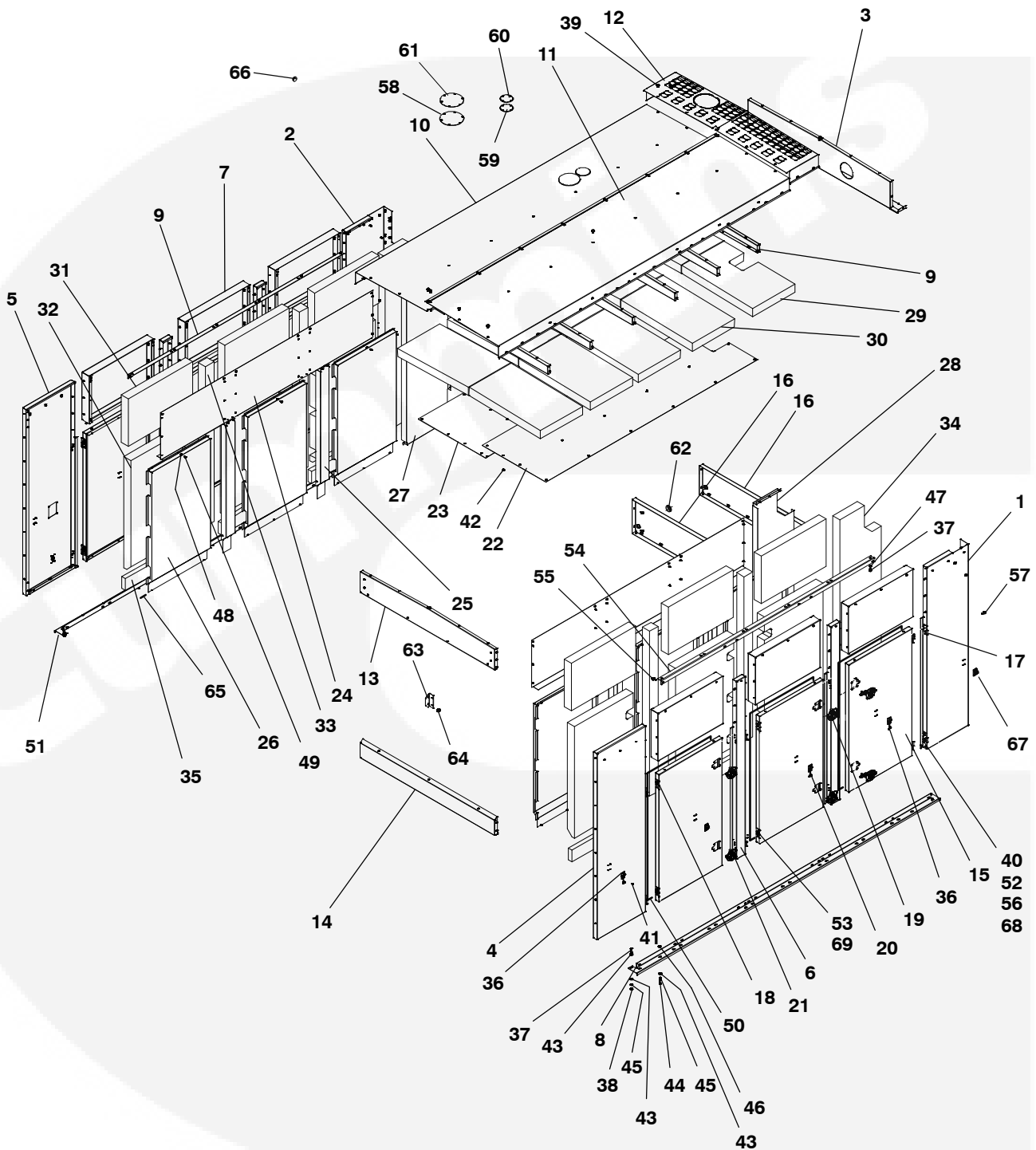
Enclosure (F184)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6780-02	2	Post, Housing	42	821-6007-02	106	Screw, Hex Head – Stainless Steel (M8 x 1.25 x 20)
2	405-6777-02	1	Panel, Roof				
3	405-6799-02	1	Panel, Roof	43	800-2085	6	Screw, Hex Head (M10 x 20)
4	405-6804-02	1	Panel, Roof	44		A/R	Rainshield, Enclosure
5	405-6806-02	2	Rainshield, Roof		405-6976-02	1	* Rainshield, Enclosure
6	405-6778-02	4	Post, Housing		405-6987-02	1	* Rainshield, Enclosure
7	405-6800-02	1	Post, Housing		405-6988-02	1	* Rainshield, Enclosure
8	405-6801-02	1	Post, Housing		818-0231-01	12	* Rivet, Pop
9	405-6820-02	1	Panel, Roof	45	098-7902-03	3	Label, Logo
10	405-6808-02	1	Panel, Roof	46	098-7849	3	Label, Caution
11	405-6807-02	1	Panel, Roof	47	098-4500	1	Label, Prototype
12	405-6821-02	1	Panel, Roof	48	130-5400-02	1	Guard, Radiator
13	405-6881-02	1	Panel, Roof	49	503-1575-03	1	Clamp, V-Band
14	405-6882-02	1	Panel, Roof	50	155-3554	1	Cap, Rain
15	406-0968	1	Hinge	51	405-7035	1	Rainshield, Enclosure – Exhaust
16	405-6888-02	1	Door, Enclosure				
17	406-0911-01	1	Latch, Door	52			Rain Shield, Enclosure
18	860-2006	4	Nut, Hex (M5 x .8)		405-7204-02	3	All Configurations – Mounts on Door at Non-Drive End of Generator
19	821-6001-01	2	Screw, Hex Head (M5 x 0.8 x 10)				
20	818-0231-01	60	Rivet, Pop		405-7204-02	4	Third Rainshield Mounts on Door Adjacent to Circuit Breaker Box or Side-Mounted Control as Applicable
21	406-0970-02	14	Hinge, Loose – Joint				
22	405-6779-02	7	Door, Housing				
23	406-0972-01	7	Latch				
24	821-6002-02	112	Screw, Hex Head (M6 x 1 x 12)				
25	870-2054	112	Nut, Lock – Flange (M6 x 1)		405-7204-02	5	Two Rainshields Mount on Doors Adjacent to Circuit Breaker Box or Side-Mounted Control as Applicable
26	818-0231-02	29	Rivet, Pop				
27	155-3493-02	3	Bracket, Muffler				
28	155-3494-02	3	Bracket, Exhaust				
29	155-3459	1	Muffler, Exhaust				
30	155-3519	1	Pipe, Exhaust	53	405-7252-02	1	Panel, Roof
31	870-2055	26	Nut, Lock – Flange (M8 x 1.25)	54	405-7253-02	1	Panel, Roof
32	526-2294	2	Washer, Flat – Nylon	55	405-7251-02	1	Panel, Roof
33	405-6890-02	1	Bracket, Door	56	332-2634	1	Clamp-J
34	526-2060	1	Washer, Flat (M5)	57	526-0399-62	6	Washer, Flat (M10)
35	405-6974-02	2	Panel, Roof	58	821-6003-02	51	Screw, Hex Head (M8 x 1.25 x 20)
36	895-0382	16	Bumper, Door				
37	128-0154-09	1	Insulation, Foam	59	098-5429	1	Label, Coolant Fill
38	128-0154-10	1	Insulation, Foam				
39	128-0154-11	1	Insulation, Foam				
40	405-6981	1	Shield, Exhaust				
41	155-3543	1	Clamp, Exhaust				

* – Included in Rainshield Enclosure



Enclosure Steel

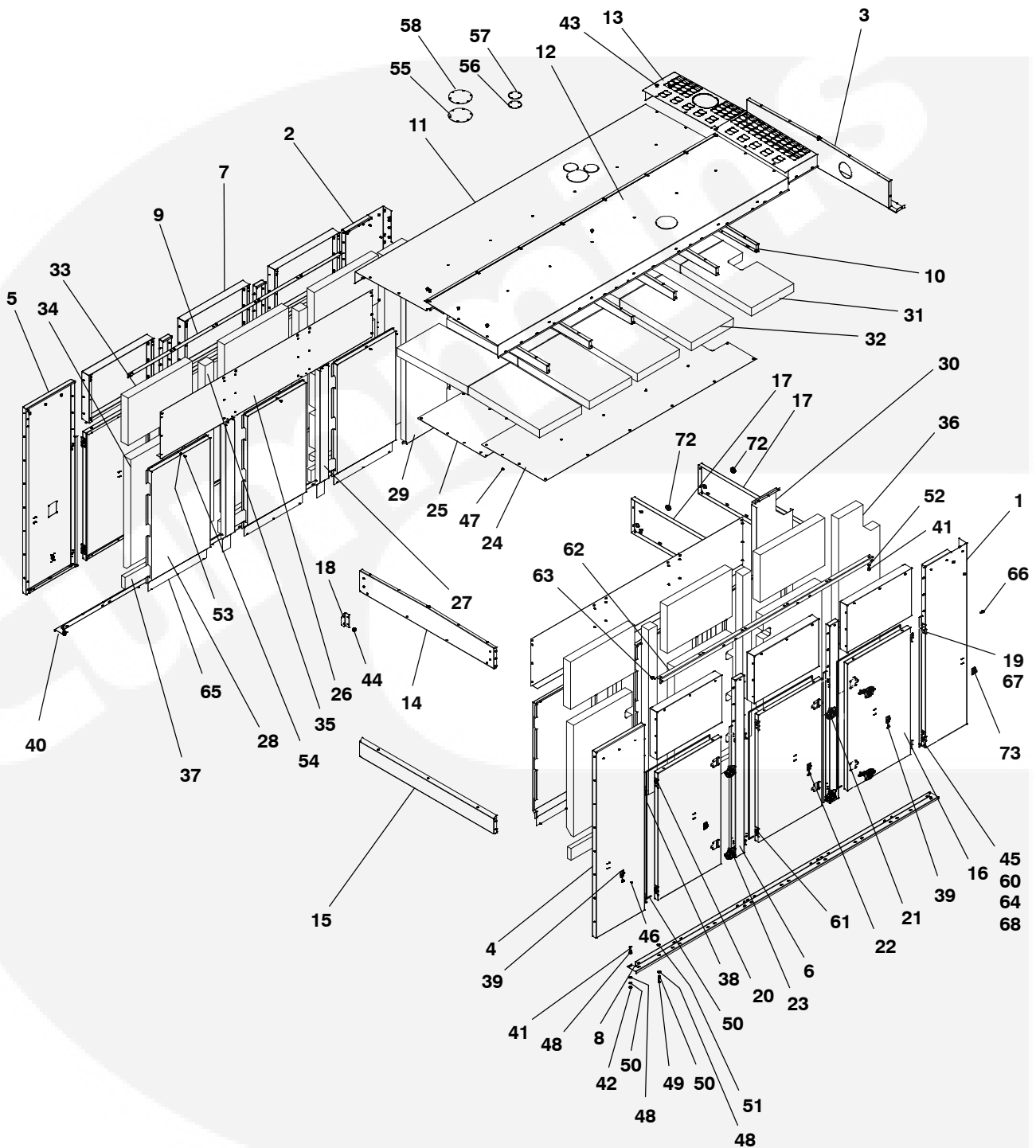


Enclosure Steel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7501-02	1	Panel, Enclosure – RH Rear	39			Screw, Hex Head (M8 x 1.25 x 20)
2	405-7500-02	1	Post, Enclosure – LH Rear				Without 150 MPH Wind Rating
3	155-4134-02	1	Shield, Heat – Exhaust	821-6007-02	90		With 150 MPH Wind Rating
4	405-7737-02	1	Panel, Enclosure – RH Front				Rivet, Dome Head – Blind (1/4)
5	405-7738-02	1	Panel, Enclosure – LH Front	821-6007-02	98		Rivet, Pop
6	405-7739-02	4	Post, Enclosure – Center	40 818-1157	96		Without 150 MPH Wind Rating
7	405-7741-02	6	Crossmember, Panel – Upper	41			With 150 MPH Wind Rating – Not Insulated
8	405-7577-02	1	Stiffener, Enclosure	818-0231-02	64		With 150 MPH Wind Rating – Insulated
9	405-7740-02	6	Stiffener, Enclosure – Truss				* Rivet, Pop
10	405-7735-02	1	Panel, Roof – LH	818-0231-02	88		Washer, Flat (7/16)
11	405-7734-02	1	Panel, Roof – RH				Screw, Cap – Hex Head (M10 x 1.5 x 40)
12	405-7736-02	1	Panel, Roof – Rear	818-0231-02	144		Washer, Lock – Split (M10)
13	405-7743-02	1	Panel, Duct – Upper				Nut, Hex (M10 x 1.5)
14	405-7744-02	1	Panel, Duct – Lower	42 818-0231-06	72		Washer, Flat (M8)
15			Door, Enclosure	43 526-0249-01	40		* Washer, Lock – W/ET (M6)
	405-7574-02	6	Without 150 MPH Wind Rating	44 800-2089	26		* Screw, Hex Head (M6 x 1 x 16)
	405-7574-04	6	With 150 MPH Wind Rating	45 850-2010	32		Seal, Door
16	405-7576-02	1	Crossmember, Panel – Rear	46 860-2009	14		Stiffener, Enclosure
17	406-0970-01	3	Hinge	47 526-2106	12		Hinge
18	406-0970-02	3	Hinge	48 853-2006	6		Hinge
19			Latch	49 821-6002-03	6		Edge, Drip – Enclosure
	406-0972-02	6	Without 150 MPH Wind Rating	50 405-7812-01	6		Screw, Hex Head (M6 x 1.0 x 16)
	406-0972-02	12	With 150 MPH Wind Rating	51 405-7577-04	1		Clip, Panel
20	406-1049-01	3	Catch, Door	52 406-0970-03	3		Gasket, Enclosure
21	517-0364	60	Plug, Hole	53 406-0970-04	3		Gasket, Enclosure
22	405-7745	1	* Retainer, Insulation – Roof	54 405-7863-02	2		Cover, Enclosure
23	405-7746	1	* Retainer, Insulation – Roof	55 821-6006-01	40		Cover, Enclosure
24	405-7616	2	* Retainer, Insulation – Side				Grommet, Rubber
25	405-7617	4	* Retainer, Insulation – Post	56 815-0181	18		Bracket, Duct – Stiffener – With 150 MPH Wind Rating
26	405-7618	6	* Retainer, Insulation – Door	57 406-0929	18		Nut, Locking – With 150 MPH Wind Rating
27	405-7620	1	* Retainer, Insulation – Post	58 405-7882	1		
28	405-7637	1	* Retainer, Insulation – Post	59 405-7883	2		* Edging
29	405-7626	1	* Insulation, Roof	60 405-7885-02	2		Plug, Hole
30	405-6000-08	4	* Insulation, Panel – Roof	61 405-7884-02	1		Stop, Door
31	405-6000-09	6	* Insulation, Panel – Cross	62 508-1102	1		Hinge
32	405-7628	6	* Insulation, Door	63 405-7756-02	2		Hinge
33	405-6000-10	4	* Insulation, Panel – Post				
34	405-7630	2	* Insulation, Enclosure – Post	64 870-2055	4		
35	405-6000-11	6	* Insulation, Panel, Door				
36	406-1049-02	3	Catch, Door	65 508-1042-08	12		
37	821-6003-02	78	Screw, Hex Head (M8 x 1.25 x 20)	66 517-0350	1		
38	870-2065-03	12	Nut, Hex – Flange	67 406-1076	4		
				68 406-0970-05	6		
				69 406-0970-06	6		

* – Insulated Enclosures

Enclosure Aluminum

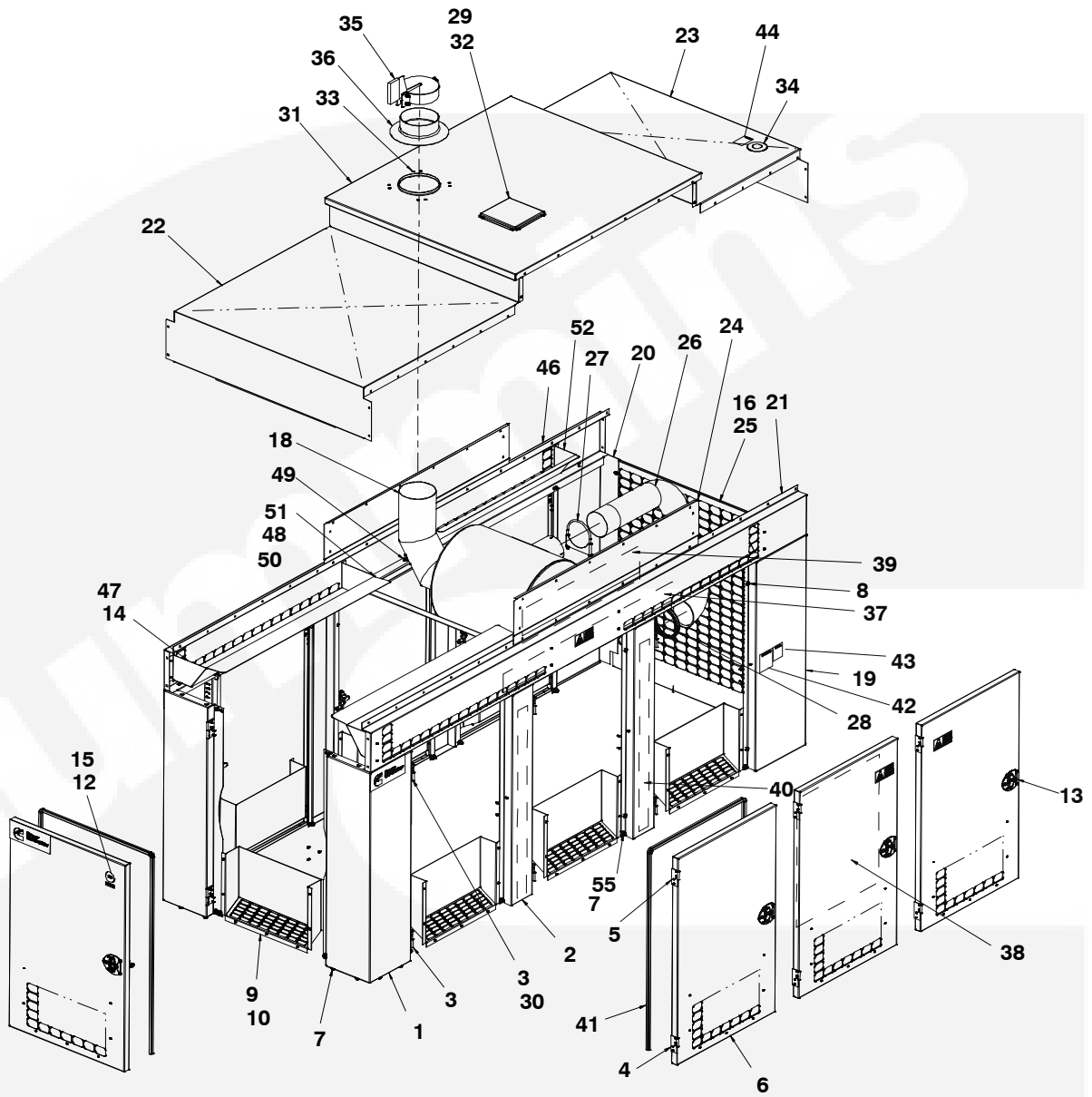


Enclosure Aluminum

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7838	1	Panel, Enclosure – RH Rear	42	870-2065-03	12	Nut, Hex – Flange
2	405-7836	1	Post, Enclosure – LH Rear	43	821-6007-02	98	Screw, Hex Head (M8 x 1.25 x 20)
3	405-7835	1	Shield, Heat – Exhaust				
4	405-7847	1	Panel, Enclosure – RH Front	44	870-2055	4	Nut, Hex – Flange (M8 x 1.25)
5	405-7848	1	Panel, Enclosure – LH Front	45	818-1157	96	Rivet, Dome Head – Blind (1/4)
6	405-7849	4	Post, Enclosure – Center	46			Rivet, Pop
7	405-7851	6	Crossmember, Panel – Upper		818-0231-02	88	Not Insulated
8	405-7577-02	1	Stiffener, Enclosure		818-0231-02	144	Insulated
9	405-7742-02	2	Stiffener, Roof	47	818-0231-06	72	* Rivet, Pop
10	405-7740-02	6	Stiffener, Enclosure – Truss	48	526-0249-01	34	Washer, Flat (7/16)
11	405-7845-02	1	Panel, Roof – LH	49	800-2089	26	Screw, Cap – Hex Head (M10 x 1.5 x 40)
12	405-7844-02	1	Panel, Roof – RH				Washer, Lock – Split (M10)
13	405-7846	1	Panel, Roof – Rear	50	850-2010	26	Nut, Hex (M10 x 1.5)
14	405-7853	1	Panel, Duct – Upper	51	860-2009	8	Washer, Flat (M8)
15	405-7854	1	Panel, Duct – Lower	52	526-2106	12	* Washer, Lock – W/ET (M6)
16	405-7840	6	Door, Enclosure	53	853-2006	6	* Screw, Hex Head (M6 x 1 x 16)
17	405-7841	1	Crossmember, Panel – Rear	54	821-6002-03	6	Gasket, Enclosure
18	405-7855	2	Bracket, Duct – Stiffener	55	405-7882	1	Gasket, Enclosure
19	406-0970-01	3	Hinge	56	405-7883	2	Cover, Enclosure
20	406-0970-02	3	Hinge	57	405-7837	2	Cover, Enclosure
21	406-0972-02	12	Latch	58	405-7839	1	Stiffener, Enclosure
22	406-1049-01	3	Catch, Door	59	405-7577-04	1	Hinge
23	517-0364	60	Plug, Hole	60	406-0970-03	3	Hinge
24	405-7745	1	* Retainer, Insulation – Roof	61	406-0970-04	3	Edge, Drip – Enclosure
25	405-7746	1	* Retainer, Insulation – Roof	62	405-7850	2	Screw, Hex Head (M6 x 1.0 x 16)
26	405-7616	2	* Retainer, Insulation – Side	63	821-6006-01	32	Screw, Hex – Threaded Cutting – W/ET (#10-32 x .50)
27	405-7617	4	* Retainer, Insulation – Post				Gasket, Door
28	405-7618	6	* Retainer, Insulation – Door	64	815-0181	18	Clip, Panel
29	405-7620	1	* Retainer, Insulation – Post				Hinge
30	405-7637	1	* Retainer, Insulation – Post	65	405-7879	12	Hinge
31	405-7626	1	* Insulation, Roof	66	406-0929	18	Stud, Clinch (Not Shown)
32	405-6000-08	4	* Insulation, Panel – Roof	67	406-0970-05	6	Washer (Not Shown)
33	405-6000-09	6	* Insulation, Panel – Cross	68	406-0970-06	6	Plug, Hole (Not Shown)
34	405-7628	6	* Insulation, Door	69	826-2133-03	12	Grommet, Rubber
35	405-6000-10	4	* Insulation, Panel – Post	70	526-2100	12	Stop, Door
36	405-7630	2	* Insulation, Enclosure – Post	71	517-0350	1	
37	405-6000-11	6	* Insulation, Panel, Door	72	508-1102	1	
38	405-7812-01	6	Seal, Door	73	406-1076	4	
39	406-1049-02	3	Catch, Door				
40	405-7842	4	Stiffener, Enclosure				
41	821-6003-02	78	Screw, Hex Head (M8 x 1.25 x 20)				

* – Insulated Enclosures

Enclosure – IBC

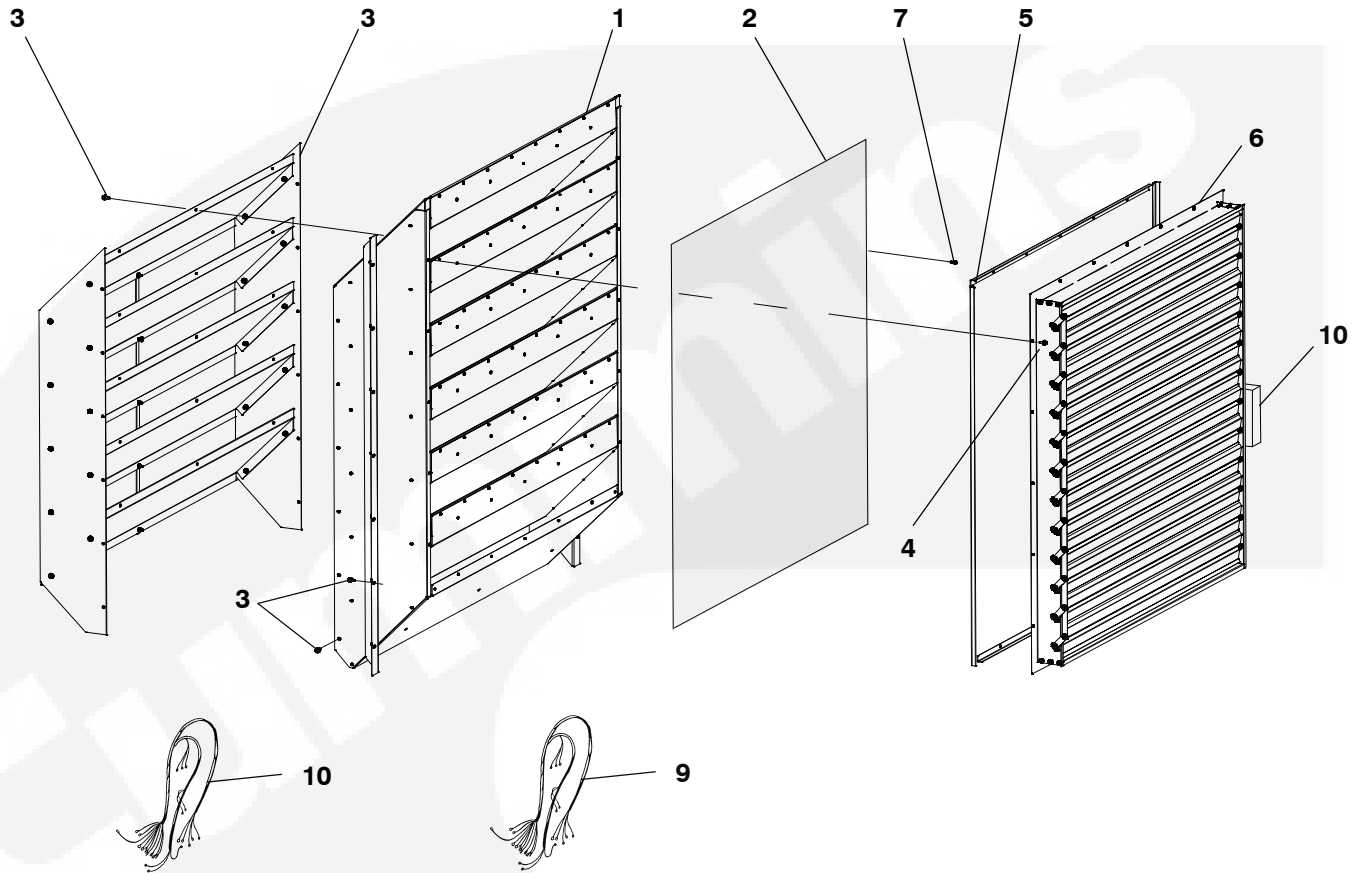


Enclosure – IBC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030H346	2	Post, Enclosure	35	155-4878	1	Cap, Rain
2	A030H350	4	Post, Enclosure	36	404-0561	1	Shield, Rain
3	406-0970-06	14	Hinge	37	128-0154	1	Insulation
4	406-0970-02	7	Hinge	38	128-0154-12	1	Insulation
5	406-0970-04	7	Hinge	39	128-0154-13	1	Insulation
6	405-6779-02	7	Door, Housing	40	128-0154-11	2	Insulation
7	870-2057	26	Nut, Flange Lock	41	404-0037-01	3	Seal, Door
8	895-0382	8	Bumper	42	098-4732	2	Label, Warning
9	821-6007-02	14	* Screw, Hex Head	43	098-4798	2	Label, Warning
10	404-0034-02	7	Enclosure, Rainshield	44	098-4730	2	Label, Warning
11	098-7849	3	* Label, Caution	45	098-5429	1	* Silkscreen, Coolant Fill
12	098-4500	1	Label	46	404-0567-02	1	Rail, Enclosure
13	406-0972-01	7	Latch	47	404-0566-02	2	Shield, Rain
14	818-0231-02	36	* Rivet, Pop	48	404-0872-02	2	Bracket
15	098-7868	1	Label	49	870-0281	4	Nut, Lock
16	821-6003-02	4	Screw, Hex Head	50	821-2060	4	Screw, Flange Head Lock
17	098-7902-03	3	* Label, Logo	51	870-2056	4	Nut, Flange Lock
18	155-4794	3	Silencer	52	A026E240	2	Enclosure, Rainshield
19	A030H917	1	Panel, Enclosure	53	800-6376-03	26	Screw, Hex Flange Head
20	A030H915	1	Panel, Enclosure				
21	404-0468-02	1	Rail, Enclosure				
22	404-0469-02	1	Panel, Enclosure				
23	404-0470-02	1	Panel, Enclosure				
24	405-9741-02	2	Panel, Enclosure				
25	A030H348	1	Grill, Enclosure				
26	155-4810	1	Pipe, Exhaust				
27	155-3543	1	Clamp				
28	503-1575-03	1	Clamp, Vee Band				
29	818-1157	120	Rivet, Pop Dome Head				
30	800-6294	14	Screw, Hex Flange Head				
31	404-0535-02	1	Panel, Enclosure				
32	404-0533-02	1	Cover, Enclosure				
33	517-0131-02	8	Plug, Hole				
34	517-0245	1	Plug				

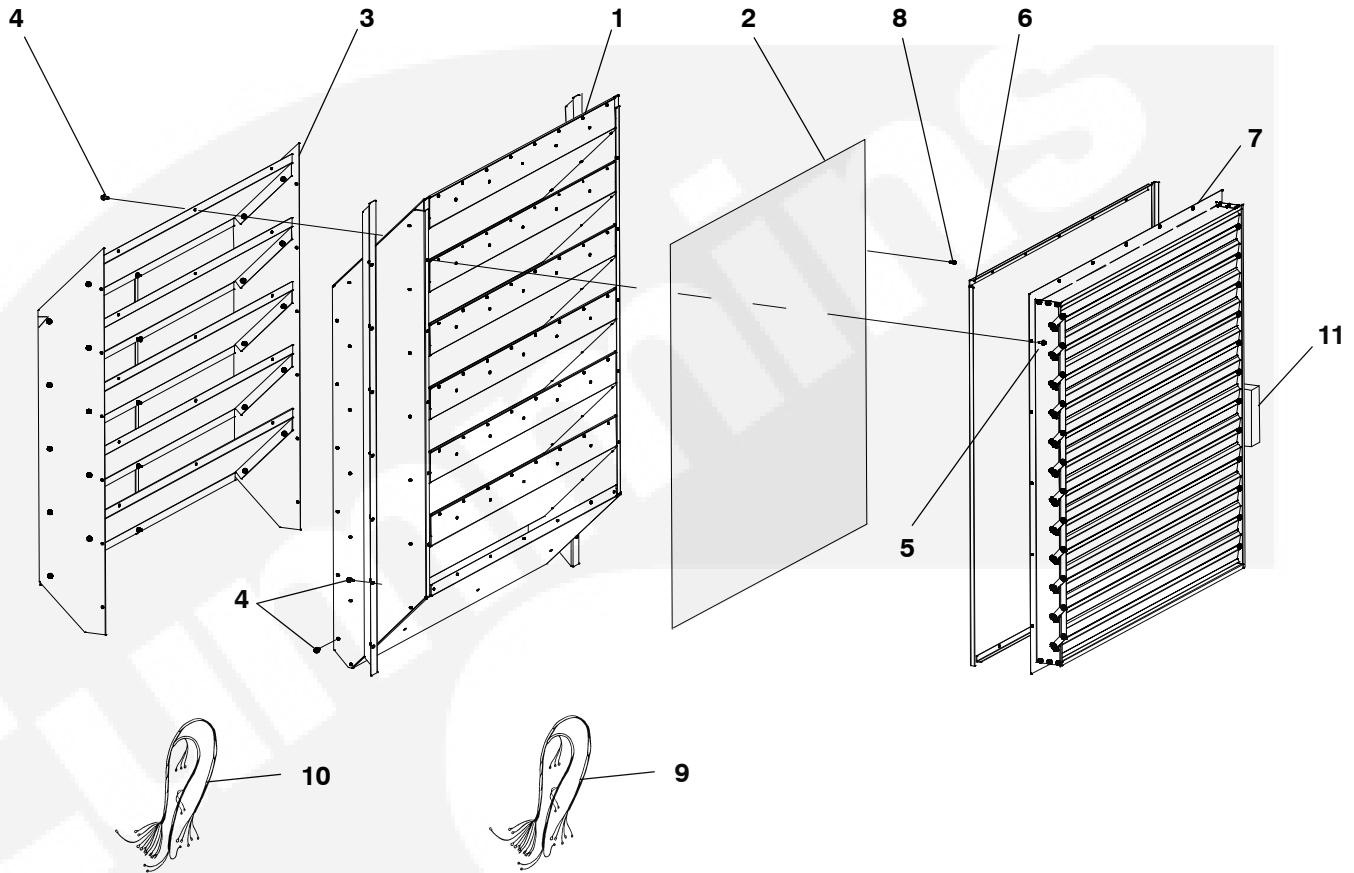
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Louver Assembly Steel Air Inlet



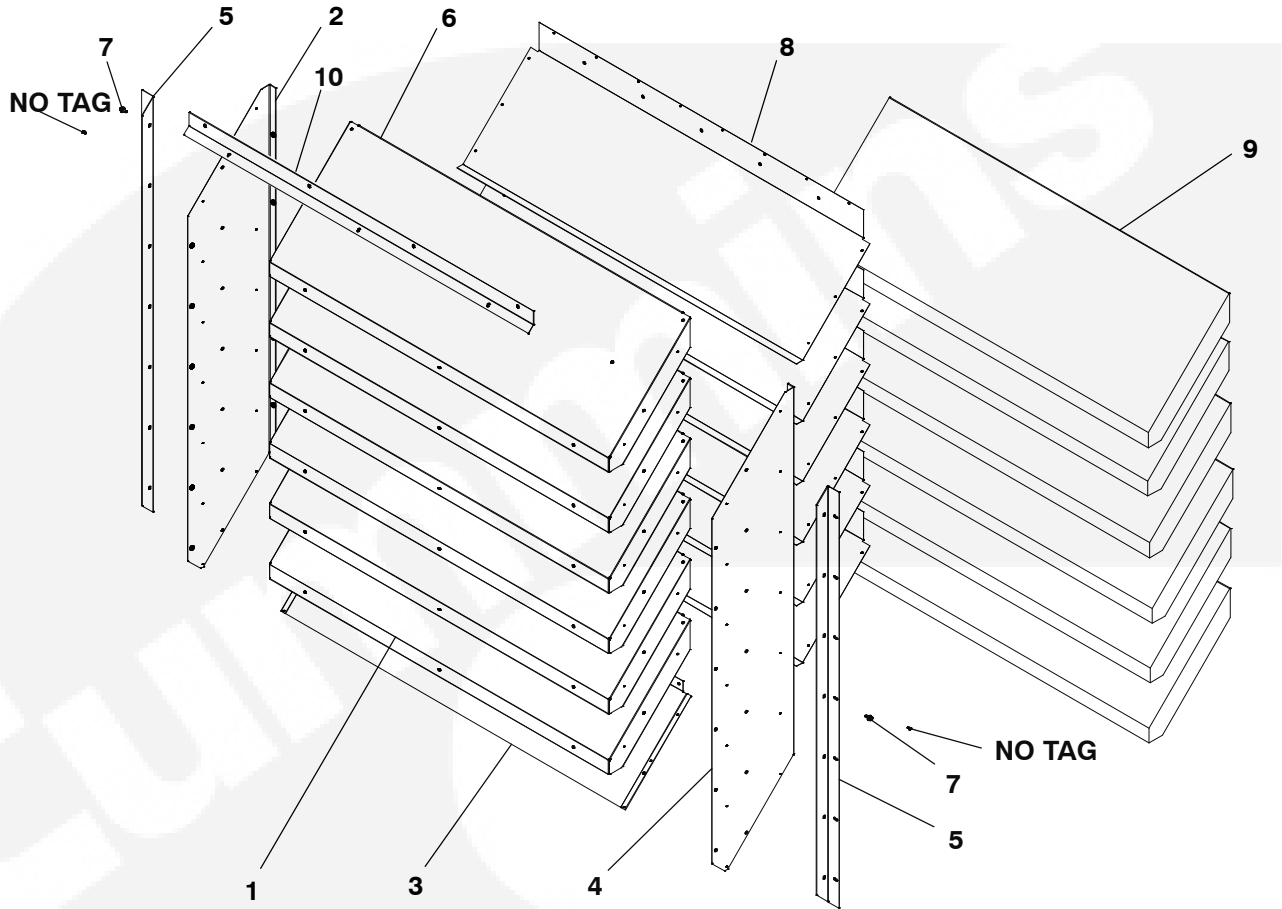
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	405-7606-02	4	Bracket, Grill
	405-7631-01	1	Weather Louvers	6	405-7539-01	1	Louver - Damper
	405-7631-02	1	Acoustic Louvers		405-7539-02	1	Spring Open - AC
2	405-7569	1	Grill, Enclosure - Mesh	7	406-0929	10	Spring Closed - DC
3			Screw, Hex Head (M8 x 1.25 x 20)	8	338-4295-01	1	Clip, Panel - With Grill
	821-6007-02	23	Without Rain Hood	9	338-4295-03	1	Harness, Control
	821-6007-02	50	With Rain Hood	10	405-7754	1	Harness, Motor
4	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)				Actuator, Louver (24V)

Louver Assembly Aluminum Air Inlet



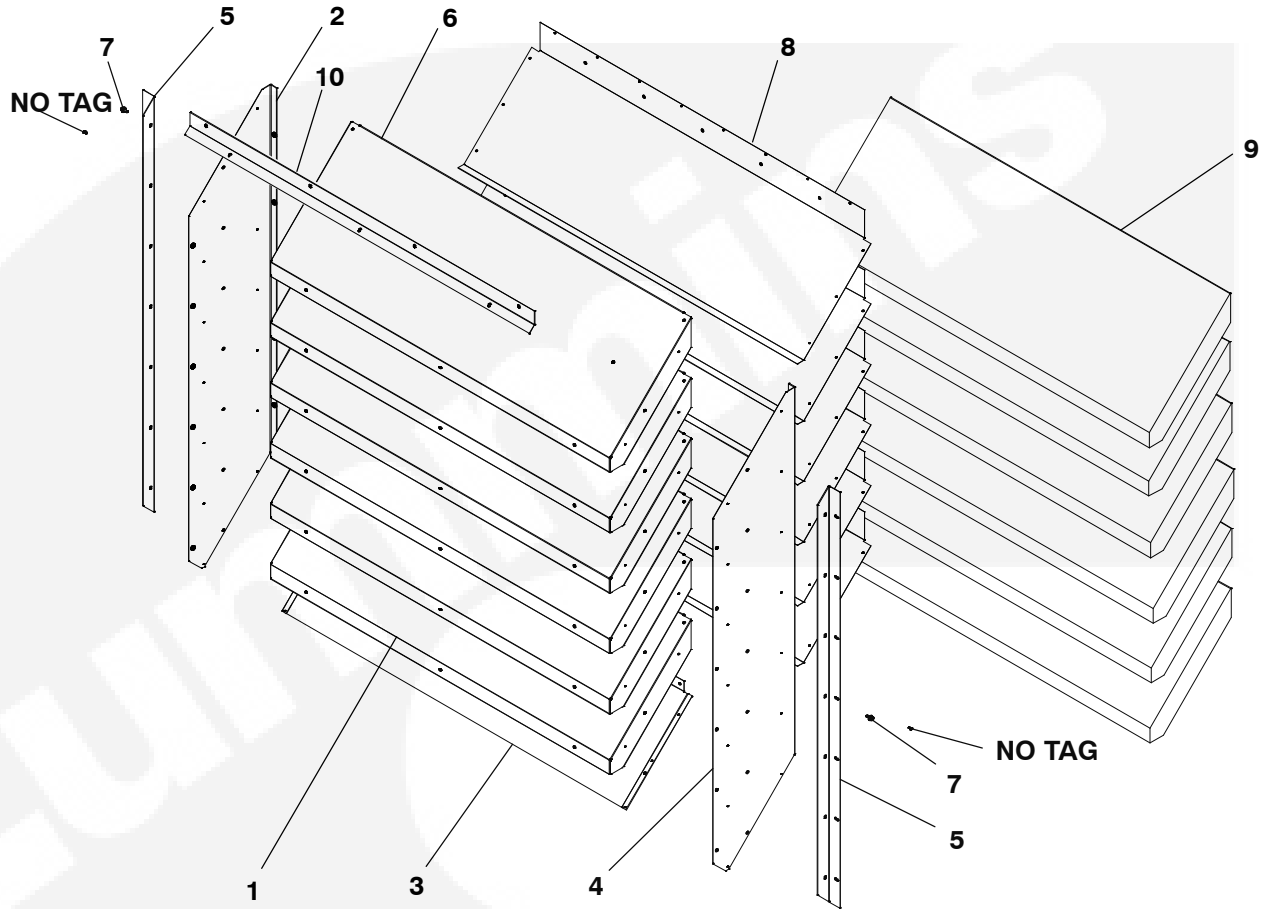
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)
	405-7720-01	1	Weather Louvers	6	405-7728	4	Bracket, Grill
	405-7720-02	1	Acoustic Louvers	7			Louver - Damper
2	405-7569	1	Grill, Enclosure - Mesh		405-7539-01	1	Spring Open - AC
3	405-7726	1	Louver Assembly - Rain Hood (See Separate Page for Components)		405-7539-02	1	Spring Closed - DC
4			Screw, Hex Head (M8 x 1.25 x 20)	8	406-0929	10	Clip, Panel - With Grill
	821-6007-02	27	Without Rain Hood	9	338-4295-01	1	Harness, Control
	821-6007-02	54	With Rain Hood	10	338-4295-03	1	Harness, Motor
				11	405-7754	1	Actuator, Louver (24V)

Louver Assembly Steel Weather and Acoustic



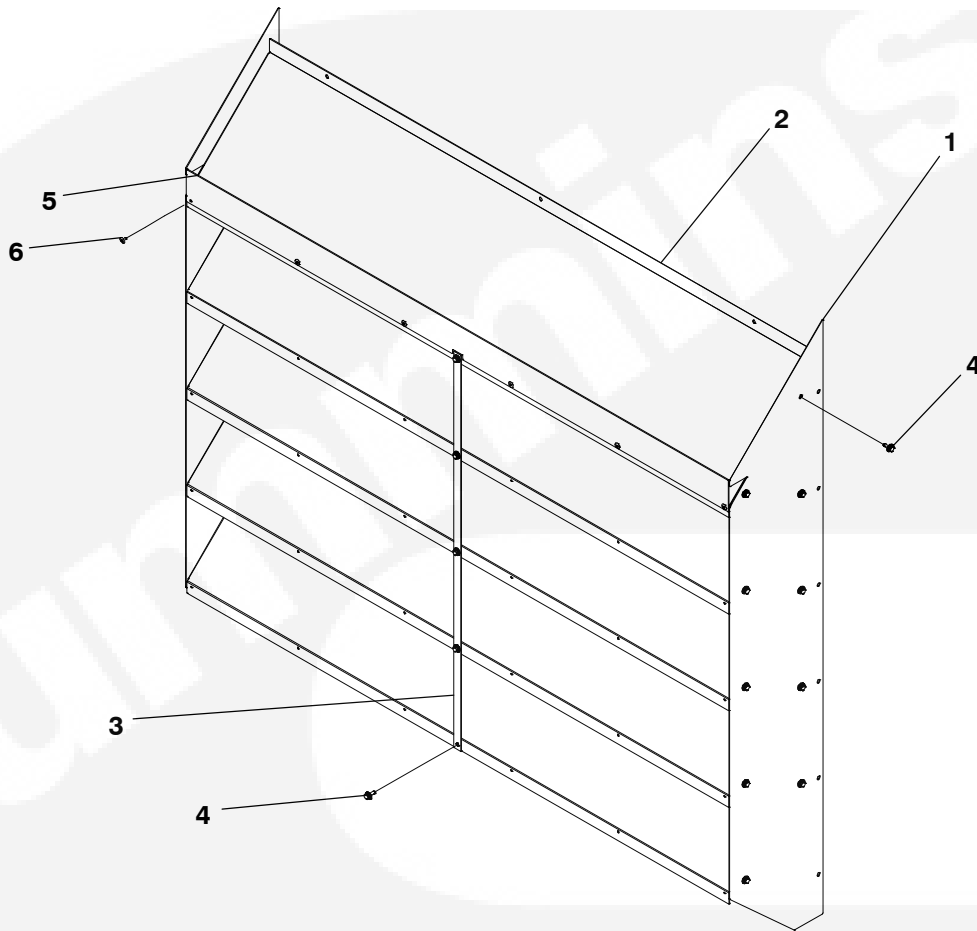
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7534-02	5	Louver – Upper	7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)
2	405-7553-02	1	Panel, Duct – Right	8	405-7535	6	Louver – Acoustic
3	405-7557-02	1	Louver – Bottom	9	405-6000-15	6	Insulation, Panel – With Acoustic Louver
4	405-7554-02	1	Panel, Duct – Left	10	405-7755-02	1	Panel, Duct (Filler)
5	405-7558-02	2	Bracket, Duct				
6	405-7534-04	1	Louver – Upper				

Louver Assembly Aluminum Weather and Acoustic



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7721-01	5	Louver – Upper	7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)
2	405-7722	1	Panel, Duct – Right	8	405-7535	6	Louver – Acoustic
3	405-7724	1	Louver – Bottom	9	405-6000-15	6	Insulation, Panel – With Acoustic Louver
4	405-7723	1	Panel, Duct – Left	10	405-7800	1	Panel, Duct (Filler)
5	405-7725	2	Bracket, Duct				
6	405-7721-02	1	Louver – Upper				

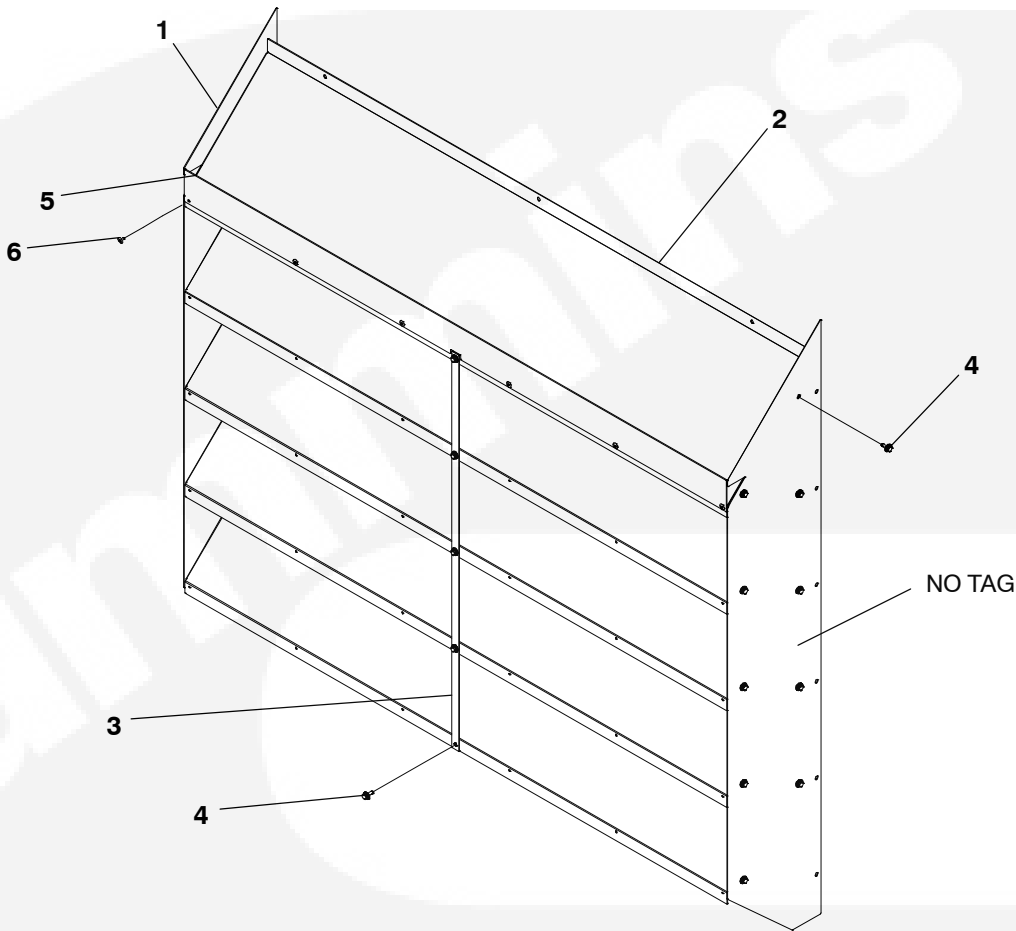
Louver Assembly Steel Rain Hood



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7634-02	2	Panel, Duct
2	405-7632-02	5	Louver
3	405-7635-02	1	Bracket, Duct
4	821-6007-02	25	Screw, Hex Head (M8 x 1.25 x 20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	405-7810-02	1	Louver - Rain Guide
6	818-0231-06	6	Rivet, Pop (3/16)

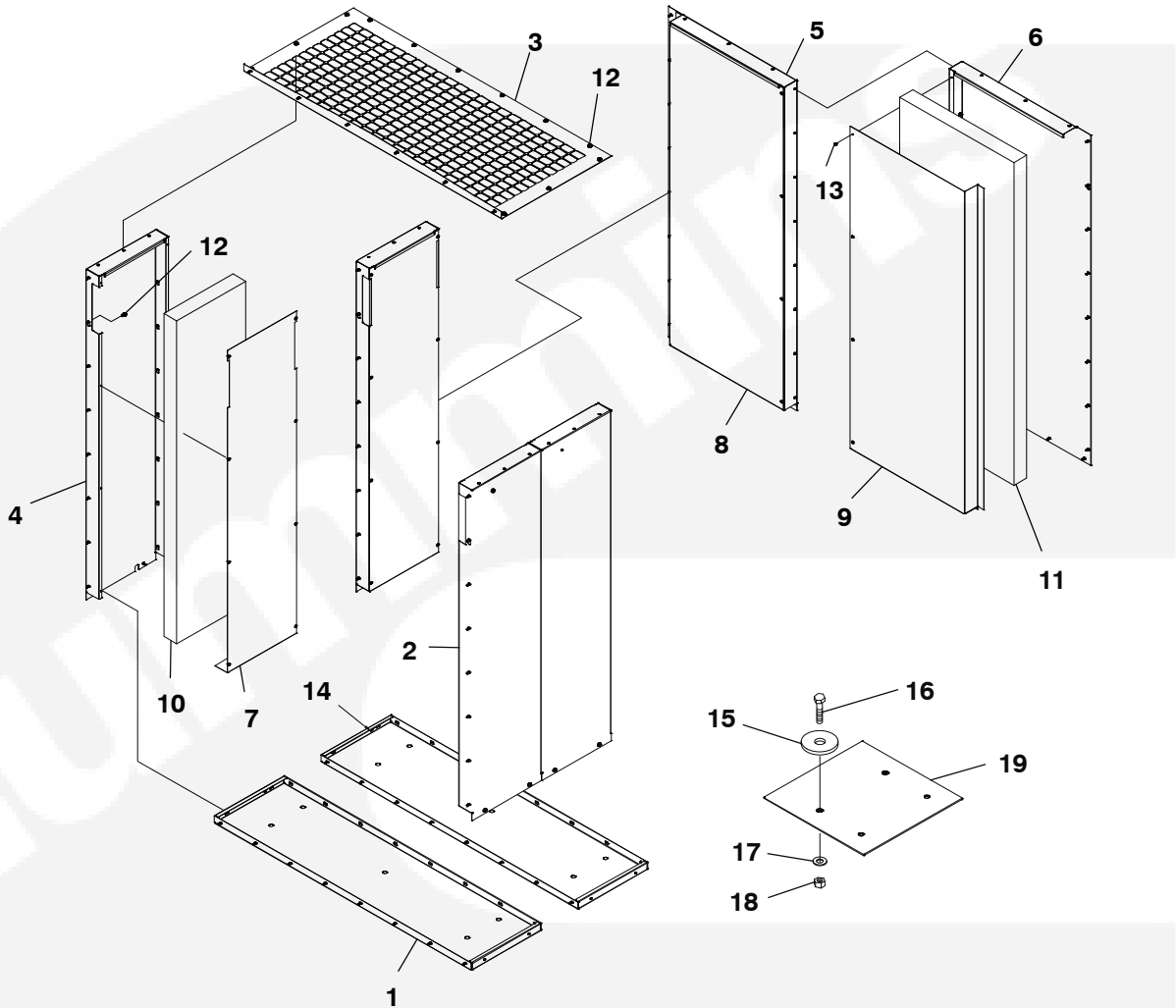
**Louver Assembly
Aluminum Rain Hood**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7730	1	Panel, Duct
2	405-7727	5	Louver
3	405-7729	1	Bracket, Duct
4	821-6007-02	25	Screw, Hex Head (M8 x 1.25 x 20)

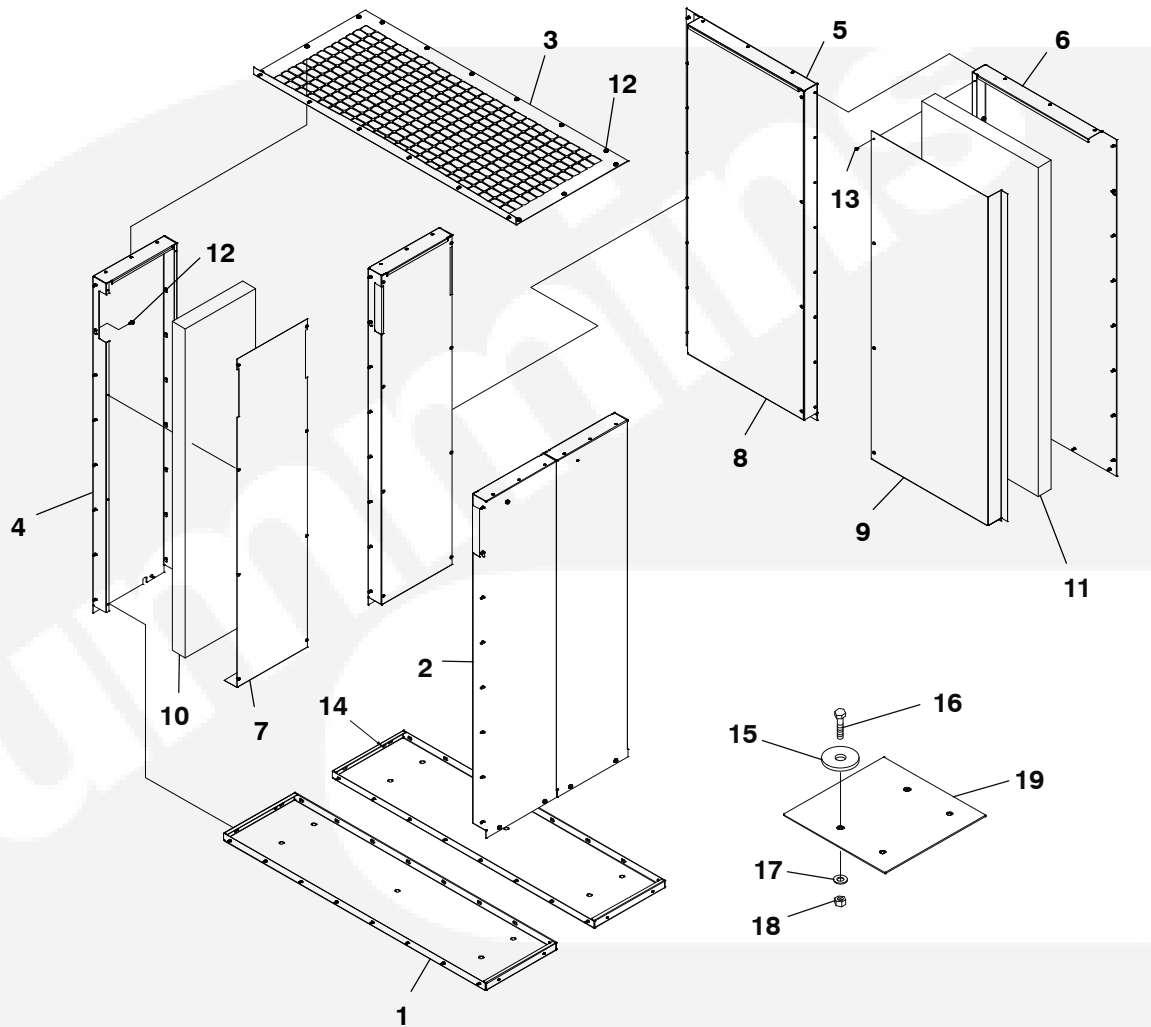
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	405-7825	1	Louver – Rain Guide
6	818-0231-02	6	Rivet, Pop

Enclosure Steel Air Discharge – Vertical



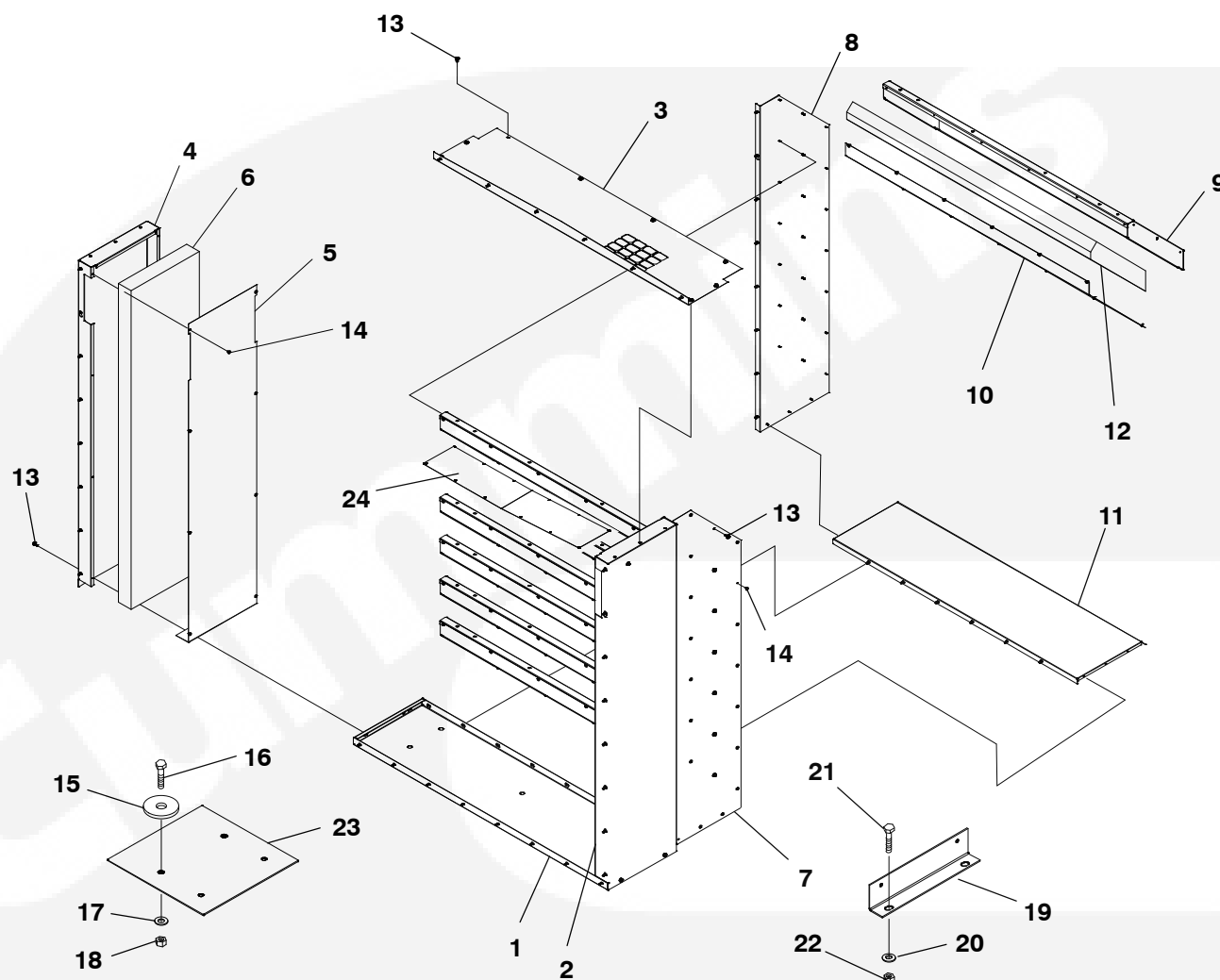
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	2	Panel, Enclosure – Bottom	12	821-6007-02 108		Screw, Hex Head (M8 x 1.25 x 20)
2	405-7587-02	2	Panel, Enclosure	13	818-0231-06 40		Rivet, Pop (3/16)
3	405-7538-02	1	Grill, Enclosure	14	517-0136-01 1		Plug, Hole
4	405-7579-02	2	Panel, Enclosure – Left	15	526-0172 4		Washer, Flat (1/2)
5	405-7540-02	1	Panel, Enclosure	16	800-2114 4		Screw, Cap – Hex Head (M12 x 1.75 x 40)
6	405-7580-02	1	Panel, Enclosure – Right	17	526-2140 4		Washer, Flat (M12)
7	405-7581	4	Retainer, Insulation	18	860-2010 4		Nut, Hex (M12)
8	405-7582	1	Retainer, Insulation	19	155-4138-02 2		Bracket, Muffler
9	405-7583	1	Retainer, Insulation – Right				
10	405-6000-13 4		Insulation, Panel – Side				
11	405-6000-14 2		Insulation, Panel – End				

Enclosure Aluminum Air Discharge – Vertical



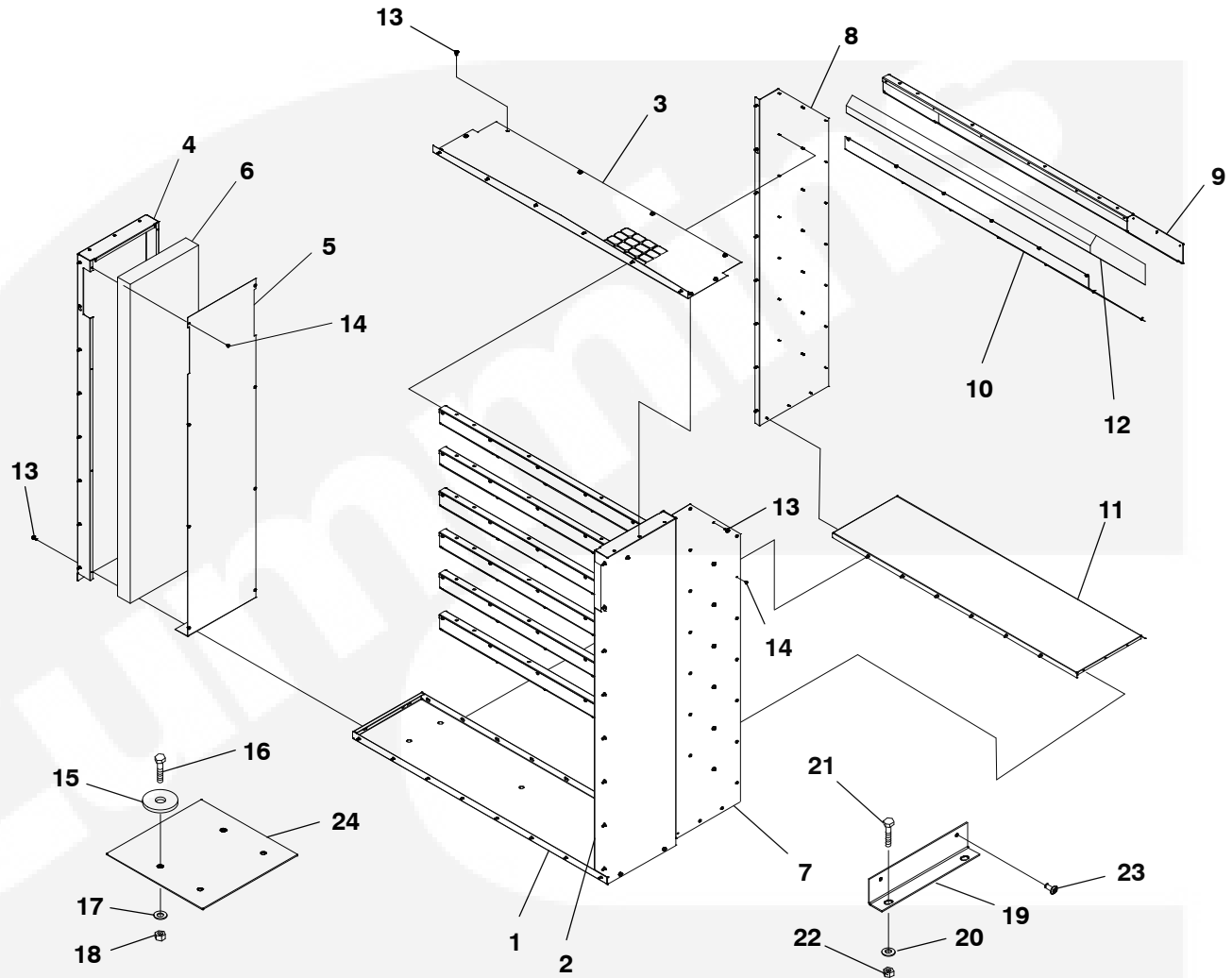
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7761	2	Panel, Enclosure – Bottom	12	821-6007-02 108		Screw, Hex Head (M8 x 1.25 x 20)
2	405-7762	2	Panel, Enclosure	13	818-0231-06 40		Rivet, Pop (3/16)
3	405-7763	1	Grill, Enclosure	14	517-0136-01 1		Plug, Hole (.812")
4	405-7764	2	Panel, Enclosure – Left	15	526-0172 4		Washer, Flat (1/2)
5	405-7765	1	Panel, Enclosure	16	800-2114 4		Screw, Cap – Hex Head (M12 x 1.75 x 40)
6	405-7766	1	Panel, Enclosure – Right	17	526-2140 4		Washer, Flat (M12)
7	405-7581	4	Retainer, Insulation	18	860-2010 4		Nut, Hex (M12)
8	405-7582	1	Retainer, Insulation	19	155-4138-02 2		Bracket, Muffler
9	405-7583	1	Retainer, Insulation – Right				
10	405-6000-13 4		Insulation, Panel – Side				
11	405-6000-14 2		Insulation, Panel – End				

Enclosure Steel Air Discharge – Horizontal



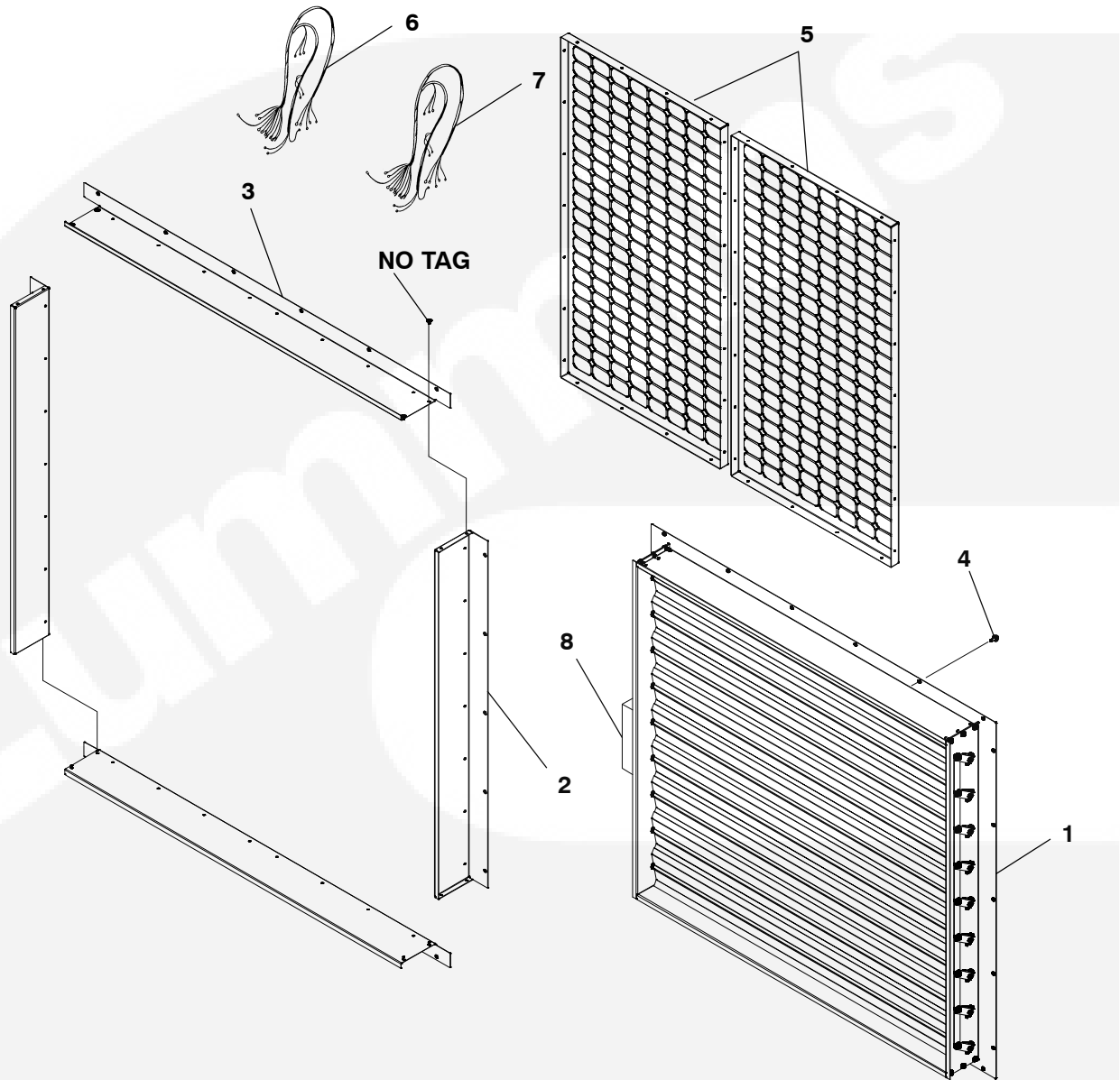
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	1	Panel, Enclosure – Bottom	14	818-0231-06	146	Rivet, Pop (3/16)
2	405-7587-02	1	Panel, Enclosure	15	526-0172	4	Washer, Flat (1/2)
3	405-7588-02	1	Grill, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
4	405-7579-02	1	Panel, Enclosure – Left	17	526-2140	4	Washer, Flat (M12)
5	405-7581	2	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
6	405-6000-13	2	Insulation, Panel – Side	19	405-7732-02	2	Bracket, Duct
7	405-7589-02	1	Frame, Louver	20	526-2109	8	Washer, Flat (M8)
8	405-7590-02	1	Frame, Louver – Left	21	800-2058	4	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	405-7591-02	7	Louver – Outlet	22	860-2008	4	Nut, Hex (M8)
10	405-7592	7	Retainer, Insulation – Louver	23	155-4138-02	2	Bracket, Muffler
11	405-7595-02	1	Panel, Air Baffle – Louver	24	405-8112-02	1	Cover, Enclosure
12	405-6000-12	7	Insulation, Panel – Louver				
13			Screw, Hex Head (M8 x 1.25 x 20)				
	821-6007-02	80	12 and 24 Hour Tank				
	821-6007-02	74	48 and 72 Hour Tank				

Enclosure Aluminum Air Discharge – Horizontal



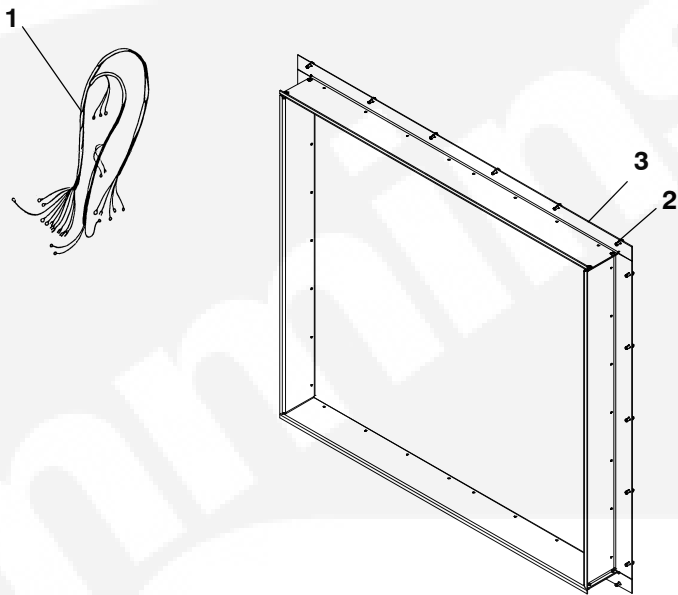
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7761	1	Panel, Enclosure – Bottom	14	818-0231-06	134	Rivet, Pop (3/16)
2	405-7762	1	Panel, Enclosure	15	526-0172	4	Washer, Flat (1/2)
3	405-7782	1	Grill, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
4	405-7764	1	Panel, Enclosure – Left	17	526-2140	4	Washer, Flat (M12)
5	405-7581	2	Retainer, Insulation	18	860-2010	4	Nut, Hex (M12)
6	405-6000-13	2	Insulation, Panel – Side	19	405-7787	2	Bracket, Duct
7	405-7783	1	Frame, Louver – Right	20	526-2109	8	Washer, Flat (M8)
8	405-7784	1	Frame, Louver – Left	21	800-2058	4	Screw, Cap – Hex Head (M8 x 1.25 x 25)
9	405-7785	7	Louver – Outlet	22	860-2008	4	Nut, Hex (M8)
10	405-7592	7	Retainer, Insulation – Louver	23	818-0231-03	4	Rivet, Pop (3/16)
11	405-7786	1	Panel, Air Baffle – Louver	24	155-4138-02	2	Bracket, Muffer
12	405-6000-12	7	Insulation, Panel – Louver				
13	821-6007-02	74	Screw, Hex Head (M8 x 1.25 x 20)				

Louver Assembly Steel Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (Damper Auto)	4	821-6007-02	22	Screw, Hex Head (M8 x 1.25 x 20)
	405-7499-01	1	Spring Open	5	405-7760-02	2	Grill, Enclosure
	405-7499-02	1	Spring Closed	6	338-4295-02	1	Harness, Control
2	405-7601-02	2	Duct, Air - Side	7	338-4295-03	1	Harness, Motor
3	405-7602-02	2	Duct, Air - Top, Bottom	8	405-7754	1	Actuator, Louver (24V)

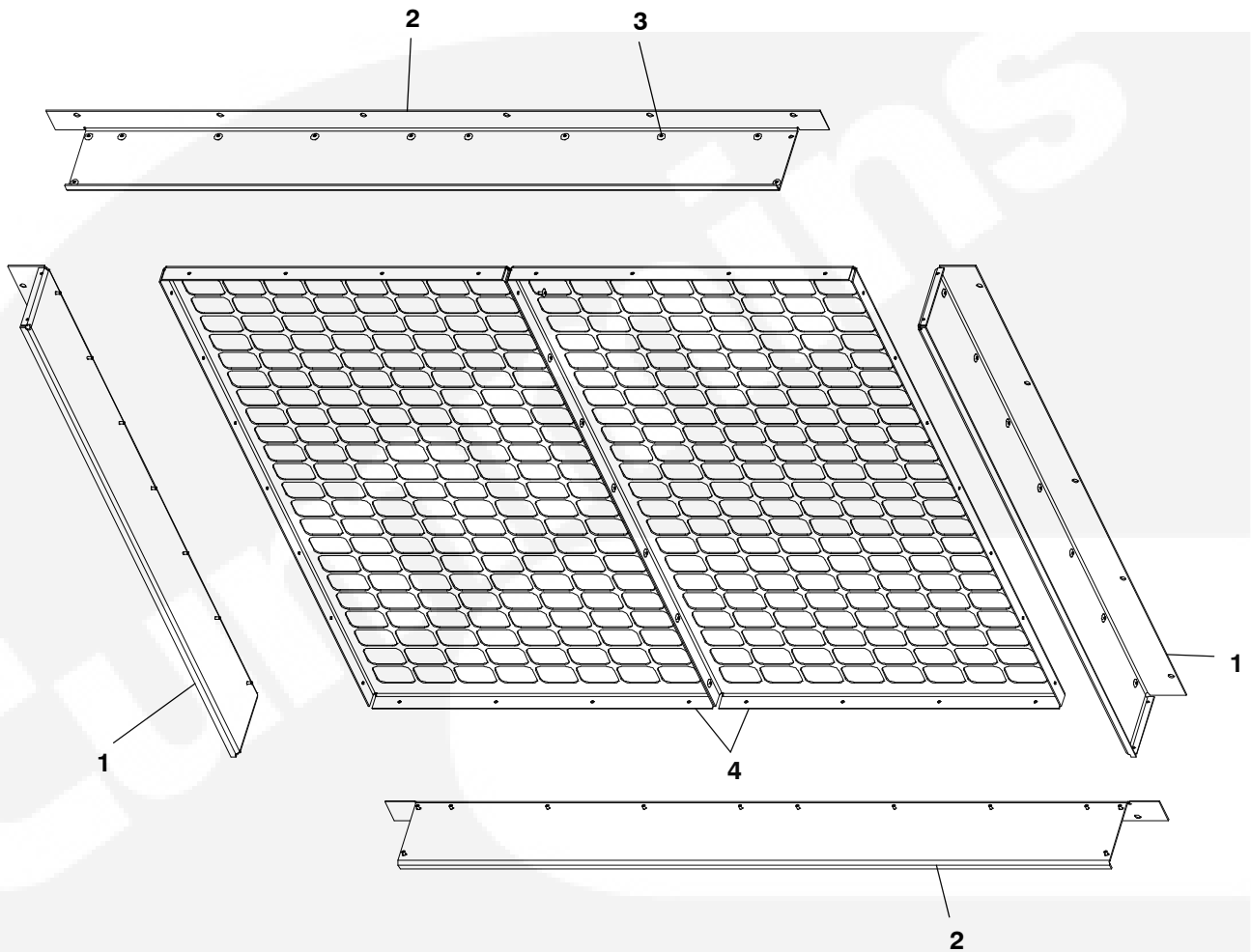
Louver Assembly
Aluminum Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4295-03	1	Motor, Harness – With Louver	3			Duct, Air (See Separate Page for Components)
2	821-6007-02	22	Screw, Hex Head (M8 x 1.25 x 20)			1	Without Guard
						1	With Guard

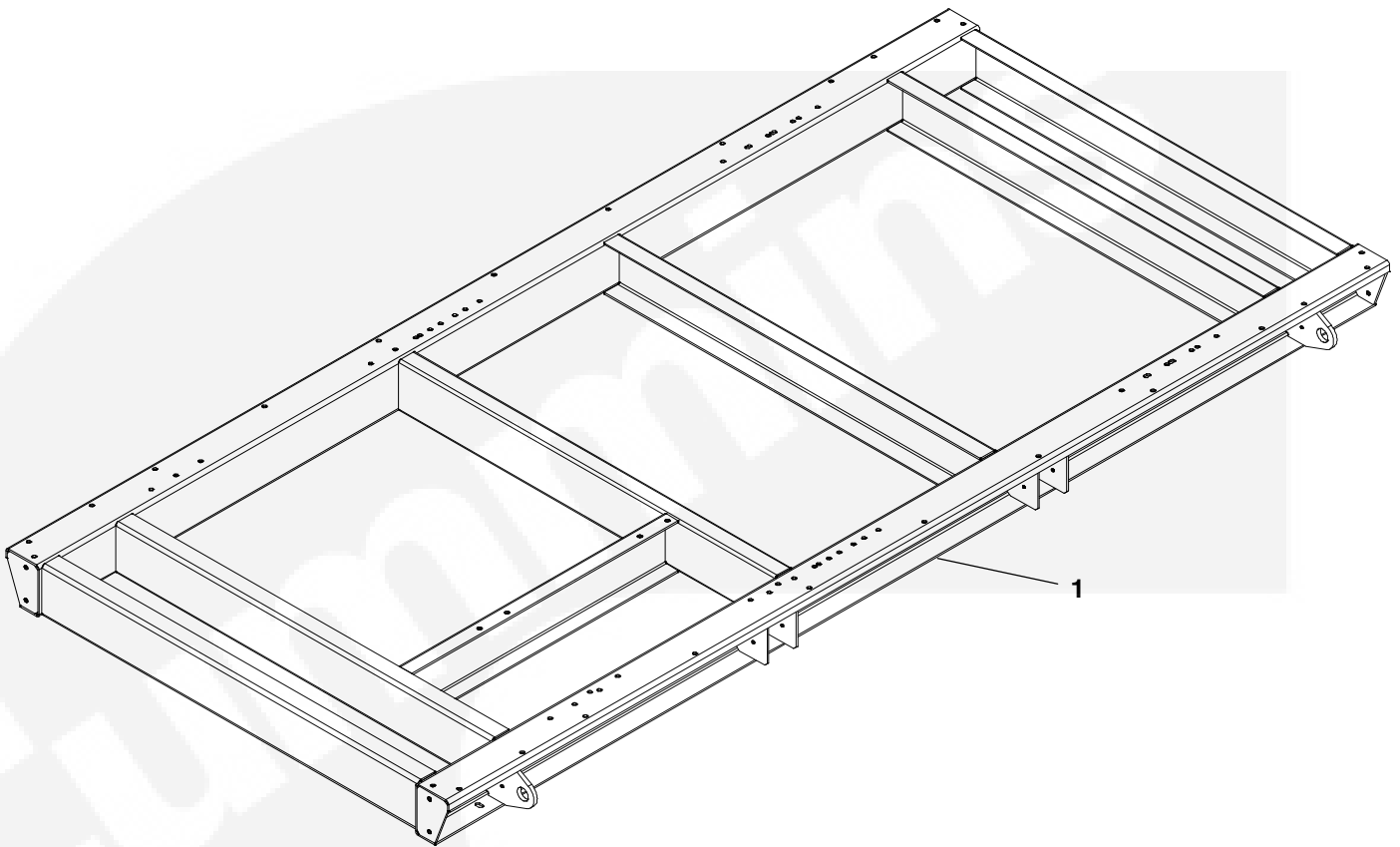


Air Duct Aluminum Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7919	2	Duct, Air – Side	4	405-7921	2	Grill, Enclosure – Air Outlet
2	405-7920	2	Duct, Air – Top and Bottom				
3			Rivet, Pop				
	818-0231-06	8	Without Grill				
	818-0231-06	37	With Grill				

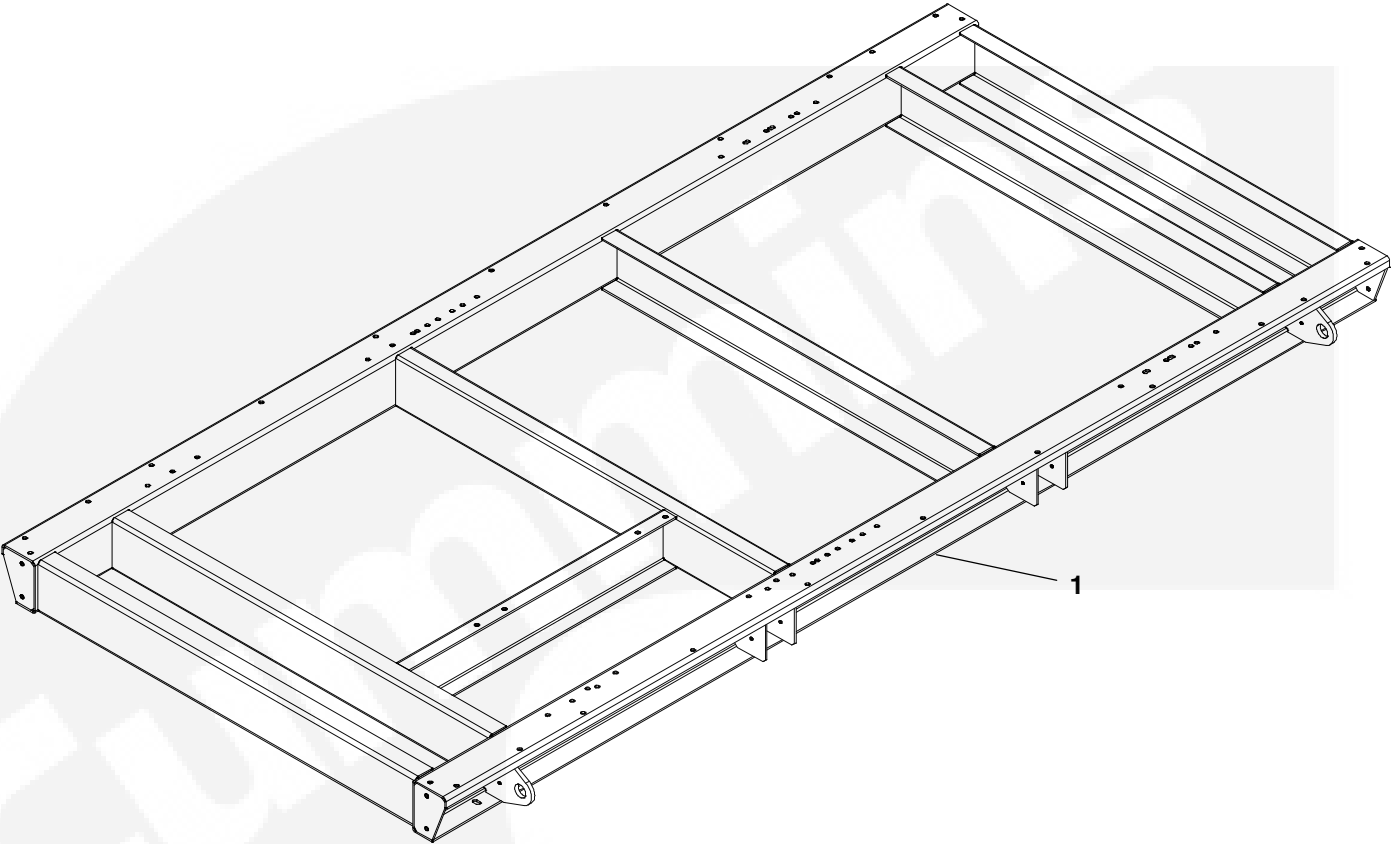
Lifting Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5034-02	1	Skid, Lifting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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Lifting Skid – IBC



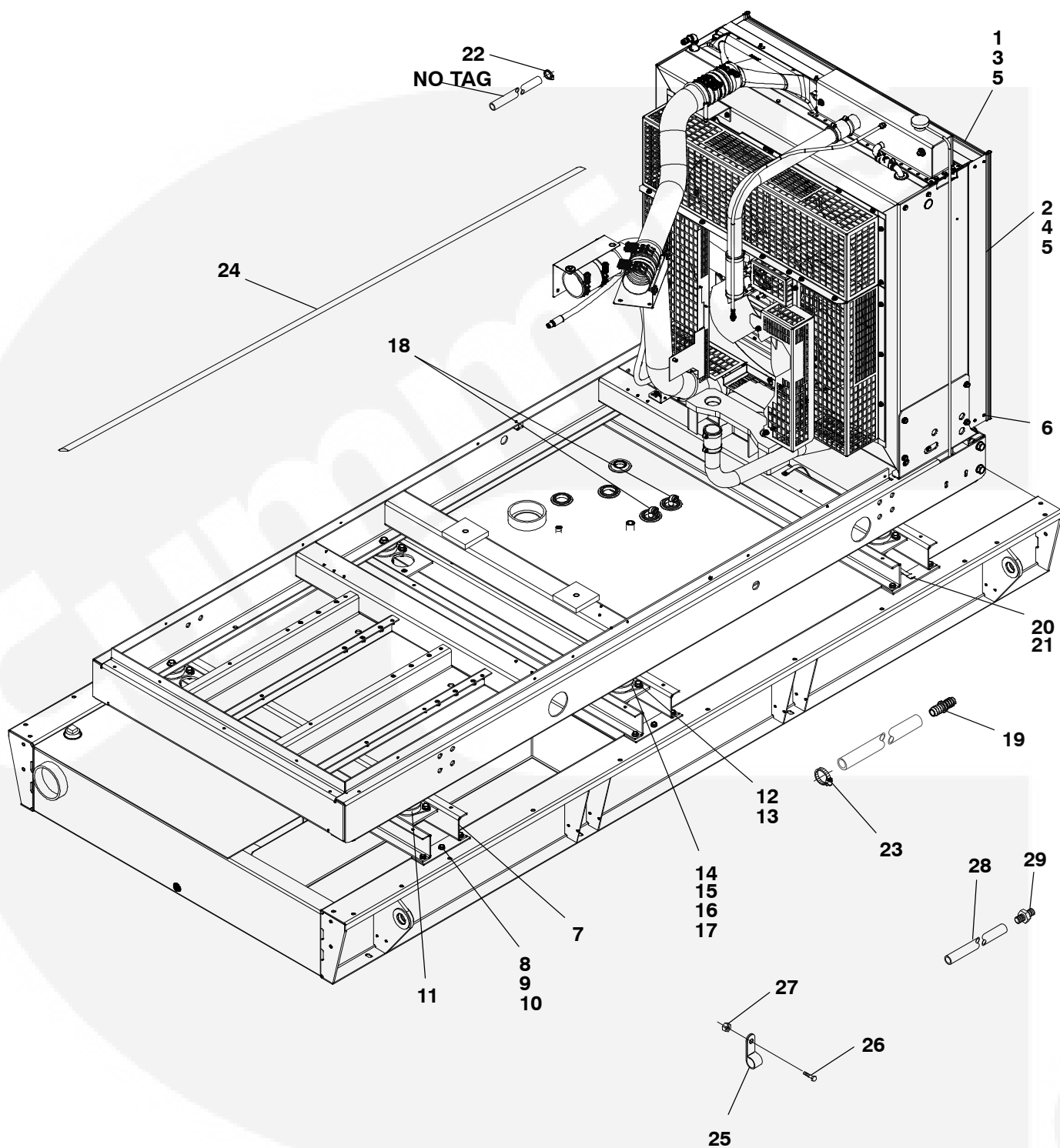
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030F884	1	Skid, Lifting

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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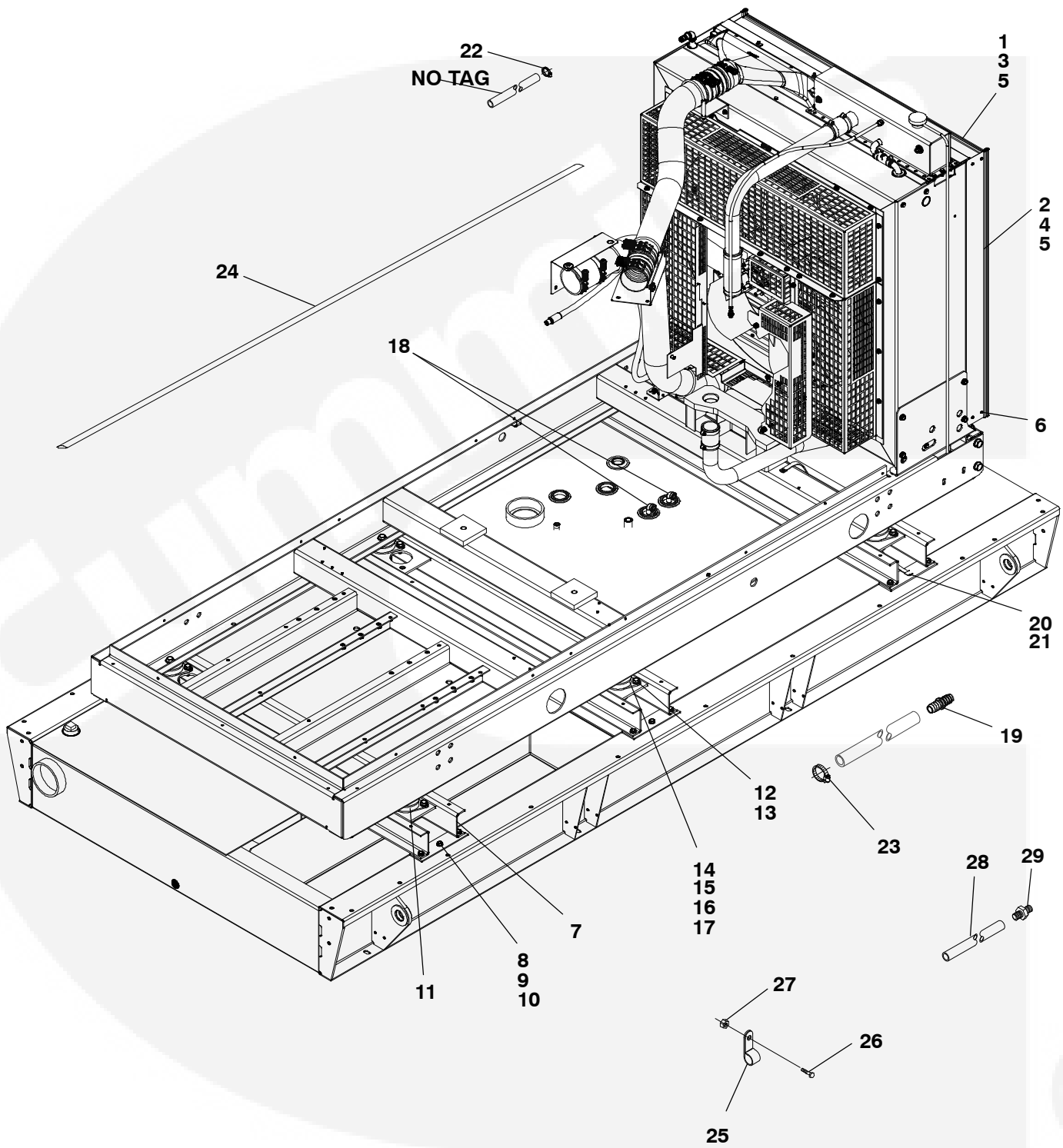
Mounting System Steel Enclosure



Mounting System Steel Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Duct, Air – Top, Bottom	14	526-0112	6	Washer, Flat (5/8)
	405-7513-02	2	50° Radiator	15	800-0145	6	Screw, Cap – Hex Head (5/8-11 x 5.5)
	405-7639-02	2	40° Radiator				Washer, Snubbing
2			Duct, Air – Sides	16	402-0820	6	Nut, Hex – Heavy (5/8-11)
	405-7514-02	2	50° Radiator	17	862-0007	6	Elbow, Street – 90° (1/2) – With Tank
	405-7638-02	2	40° Radiator	18	505-0050	2	Union, Hose (3/4)
3	405-5884-01	2	Seal, Radiator	19	502-1383	2	Strap, Electrical
4	405-5884-02	2	Seal, Radiator	20	337-0090-02	1	Washer, Lock – W/ET (M12)
5	821-6003-02	16	Screw, Hex Head (M8 x 1.25 x 20)	21	853-2012	2	Clamp, Hose
6	821-0231-02	8	Rivet, Pop (3/8)	22	503-0131	1	Clamp, Hose
7			Mount, Fuel Tank	23	503-0189	1	Gasket, Enclosure – With Tank
	403-5111-02	3	Non-IBC Sesmic	24	405-7657-04	2	Clamp, J
	A030P905	3	IBC Sesmic	25	518-0704	1	Screw, Cap – Hex Head (5/16-18 x .75)
8	800-2114	18	Screw, Cap – Hex Head (M12 x 1.75 x 40)	26	800-0026	1	Nut, Hex (5/16-18)
9	526-2140	36	Washer, Flat (M12)	27	862-0015	1	Hose, Coolant
10	860-2010	18	Nut, Hex (M12 x 1.75)	28	503-2350-03	1	Connector, Hose (Beaded)
11	402-0816-02	6	Isolator, Vibration	29	502-0971	1	Cap, Pipe (Not Illustrated)
12	850-0070	12	Washer, Lock – Split (5/8)	30	505-0479	1	
13	800-0132	12	Screw, Cap – Hex Head (5/8-11 x 1.5)				

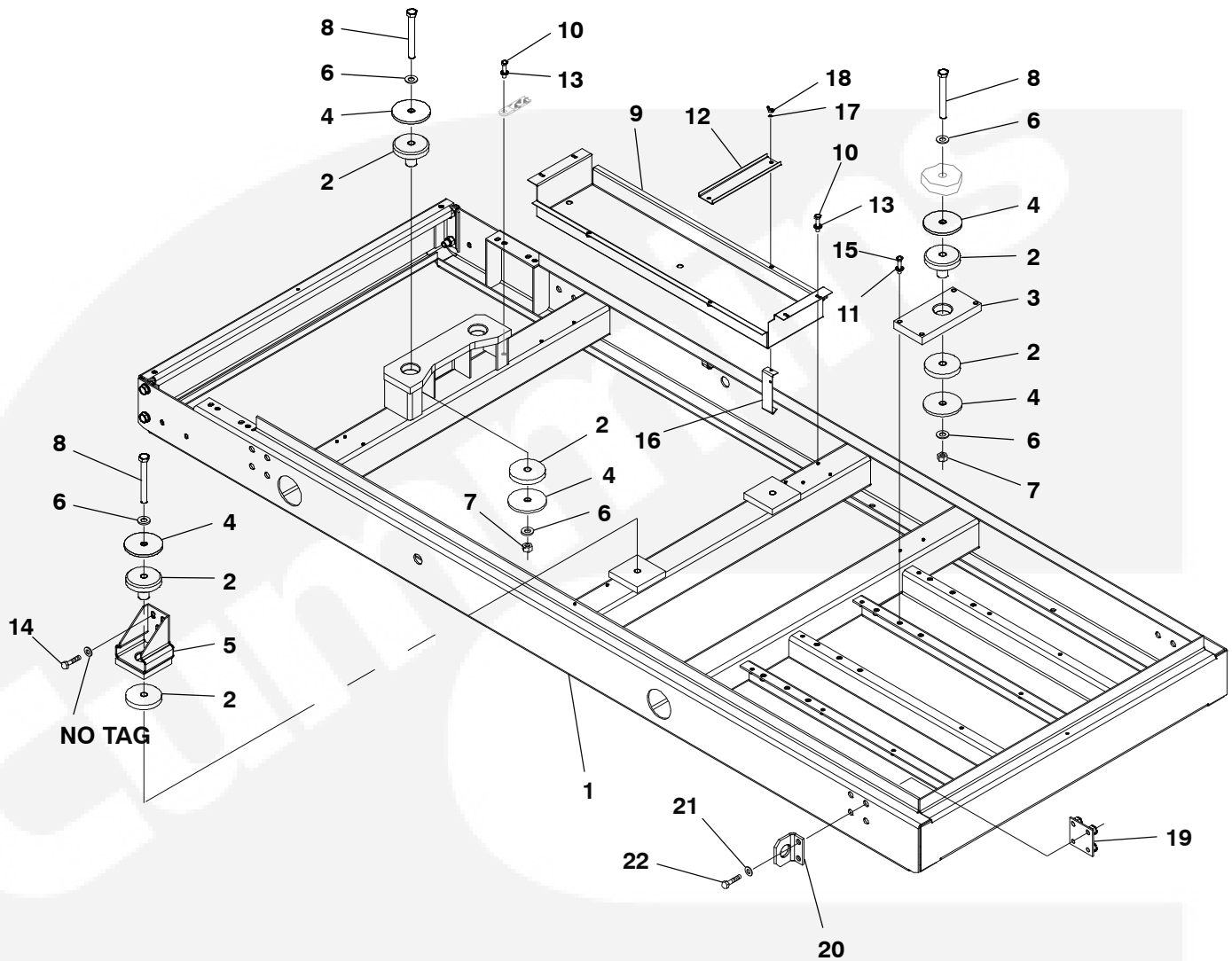
Mounting System Aluminum Enclosure



Mounting System Aluminum Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Duct, Air – Top, Bottom	14	526-0112	6	Washer, Flat (5/8)
	405-7870	2	50° Radiator	15	800-0145	6	Screw, Cap – Hex Head (5/8-11 x 5.5)
	405-7877	2	40° Radiator				Washer, Snubbing
2			Duct, Air – Sides	16	402-0820	6	Nut, Hex – Heavy (5/8-11)
	405-7871	2	50° Radiator	17	862-0007	6	Elbow, Street – 90° (1/2) – With Tank
	405-7876	2	40° Radiator	18	505-0050	2	Union, Hose (3/4)
3	405-5884-01	2	Seal, Radiator	19	502-1383	2	Strap, Electrical
4	405-5884-02	2	Seal, Radiator	20	337-0090-02	1	Washer, Lock – W/ET (M12)
5	821-6003-02	16	Screw, Hex Head (M8 x 1.25 x 20)	21	853-2012	2	Clamp, Hose
6	818-0231-02	8	Rivet, Pop (3/8)	22	503-0131	1	Clamp, Hose
7			Mount, Fuel Tank	23	503-0189	1	Gasket, Enclosure – With Tank
	403-5111-02	3	Non-IBC Seismic	24	405-7657-04	2	Clamp, J
	A030P905	3	IBC Seismic	25	518-0704	1	Screw, Cap – Hex Head (5/16-18 x .75)
8	800-2114	18	Screw, Cap – Hex Head (M12 x 1.75 x 40)	26	800-0026	1	Nut, Hex (5/16-18)
9	526-2140	36	Washer, Flat (M12)	27	862-0015	1	Hose, Coolant
10	860-2010	18	Nut, Hex (M12 x 1.75)	28	503-2350-03	1	Connector, Hose (Beaded)
11	402-0816-02	6	Isolator, Vibration	29	502-0971	1	
12	850-0070	12	Washer, Lock – Split (5/8)				
13	800-0132	12	Screw, Cap – Hex Head (5/8-11 x 1.5)				

Skid

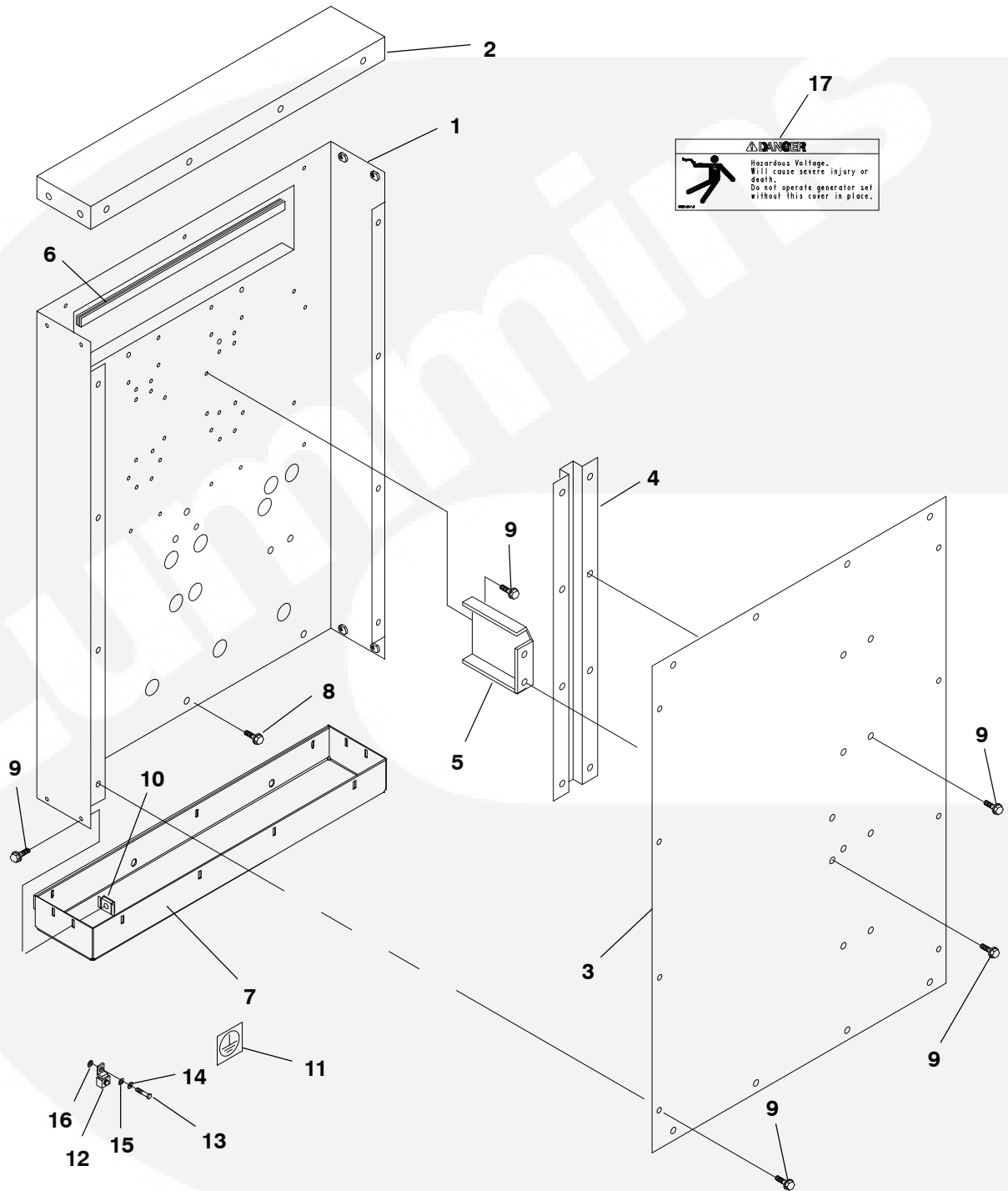


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-4378-02	1	Skid	13	526-2106	4	Washer, Flat (M8)
2	402-0753	6	Isolator, Vibration	14	800-0132	6	Screw, Cap - Hex Head - Grade 8 (5/8-11 x 1.5)
3	403-4390-02	2	Pad, Generator Mounting	15	800-2543-08	8	Screw, Cap - Hex Head (M12 x 1.75 x 55)
4	403-4448	10	Washer, Isolator	16	416-1057-02	4	Bracket, Battery Hold-Down
5	403-4440-02	2	Bracket, Engine Mount	17	740-1004	4	Washer, Flat (M6)
6	526-0238-01	10	Washer, Flat (3/4)	18	865-0030	4	Nut, Wing (M6)
7	860-2023-01	4	Nut, Hex (M20 x 2.5)	19	403-4468-02	4	Plate, Nut
8	800-3047-01	6	Screw, Cap - Hex Head (M20 x 170)	20	403-4436-02	8	Bracket, Lift
9	403-4392-02	1	Tray, Battery	21	526-0399-70	16	Washer, Flat (M20)
10	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)	22	800-3017-90	16	Screw, Cap - Hex Head (M20 x 2.5 x 55)
11	526-0399-64	8	Washer, Flat (M12)				
12	416-1056-02	2	Hold-Down, Battery				

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Entrance Box

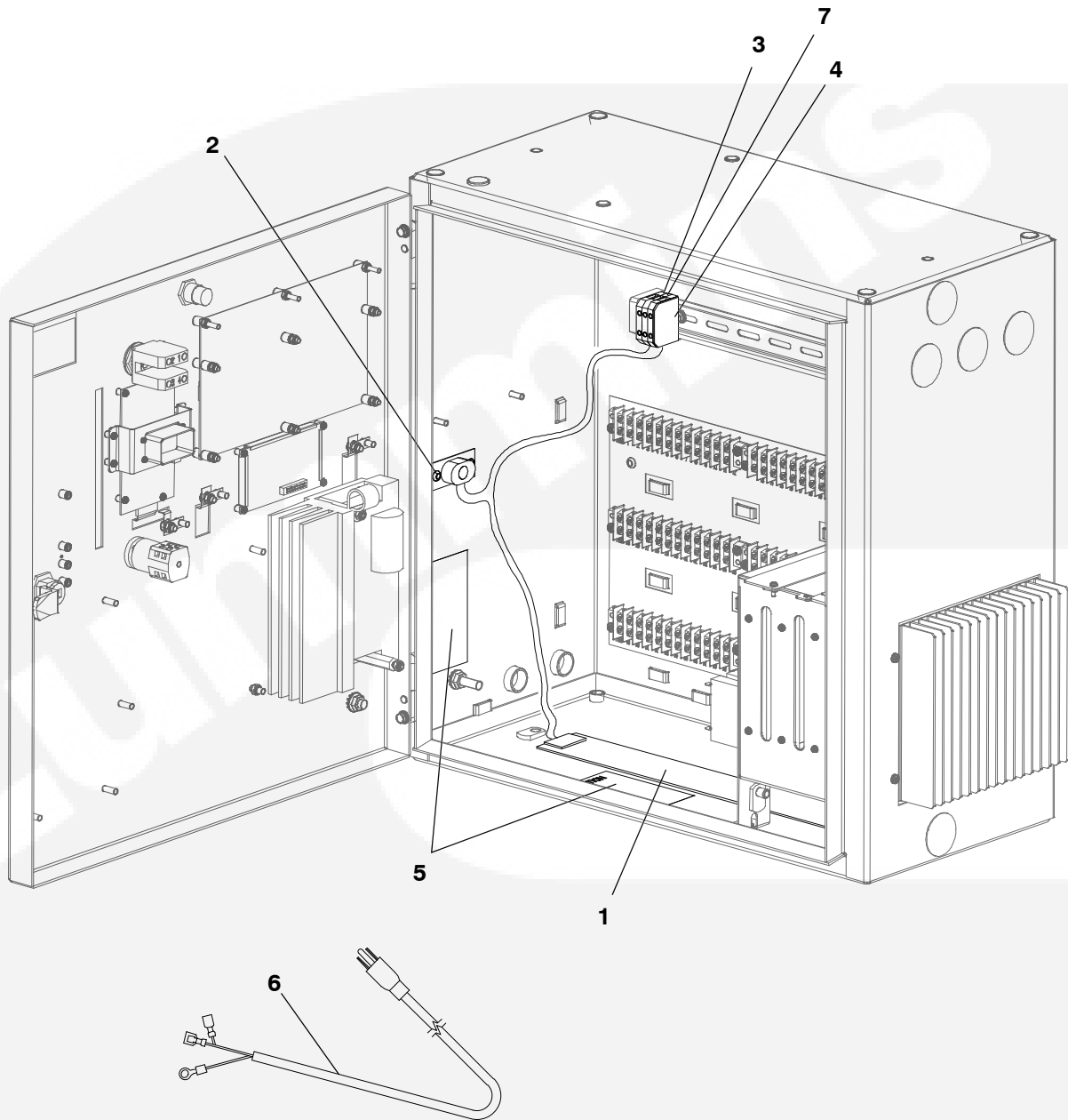


Entrance Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3169	1	Box, Entrance	10	870-0504	16	Nut, Retaining (M6)
2	319-1915	1	Cover, Entrance Box	11	098-6537	1	Label, Grounding
3	319-1916	1	Cover, Entrance Box	12	332-2001	1	Lug, Solderless
4	319-3284	1	Brace, Access Door	13	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
5	319-3251	1	Brace, Cover	14	850-2010	1	Washer, Lock – Split
6	508-1092	–	Edging – Bulk (Order by the Foot – 2 Feet Required)	15	526-2120	1	Washer, Flat (M10)
7	319-3183	1	Cover, Entrance Box	16	856-0010	1	Washer – W/EIT
8	821-2035	2	Screw, Self-Locking – Hex Washer Head (M6 x 1.0 x 25)	17	098-5347	1	Label, Danger
9	821-6002-03	44	Screw, Hex Head (M6 x 1.0 x 16)		098-5347-02	1	English
							French

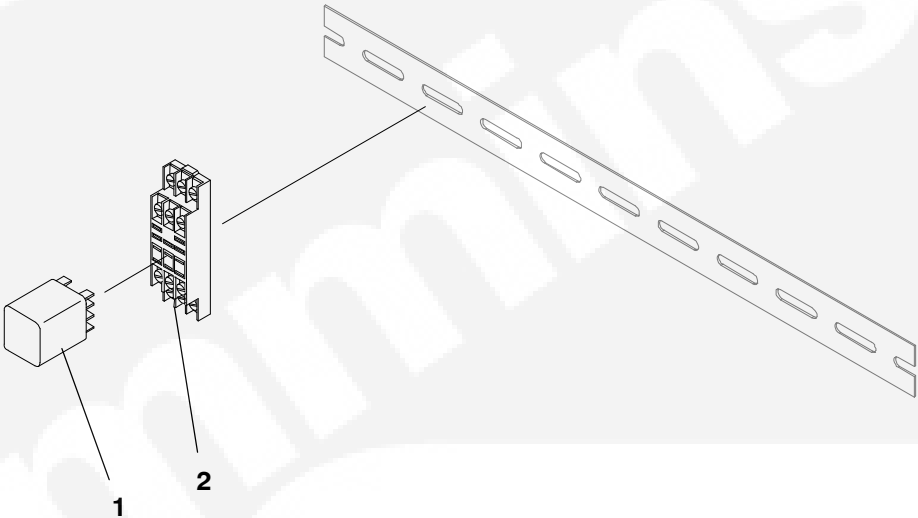


Control Heater



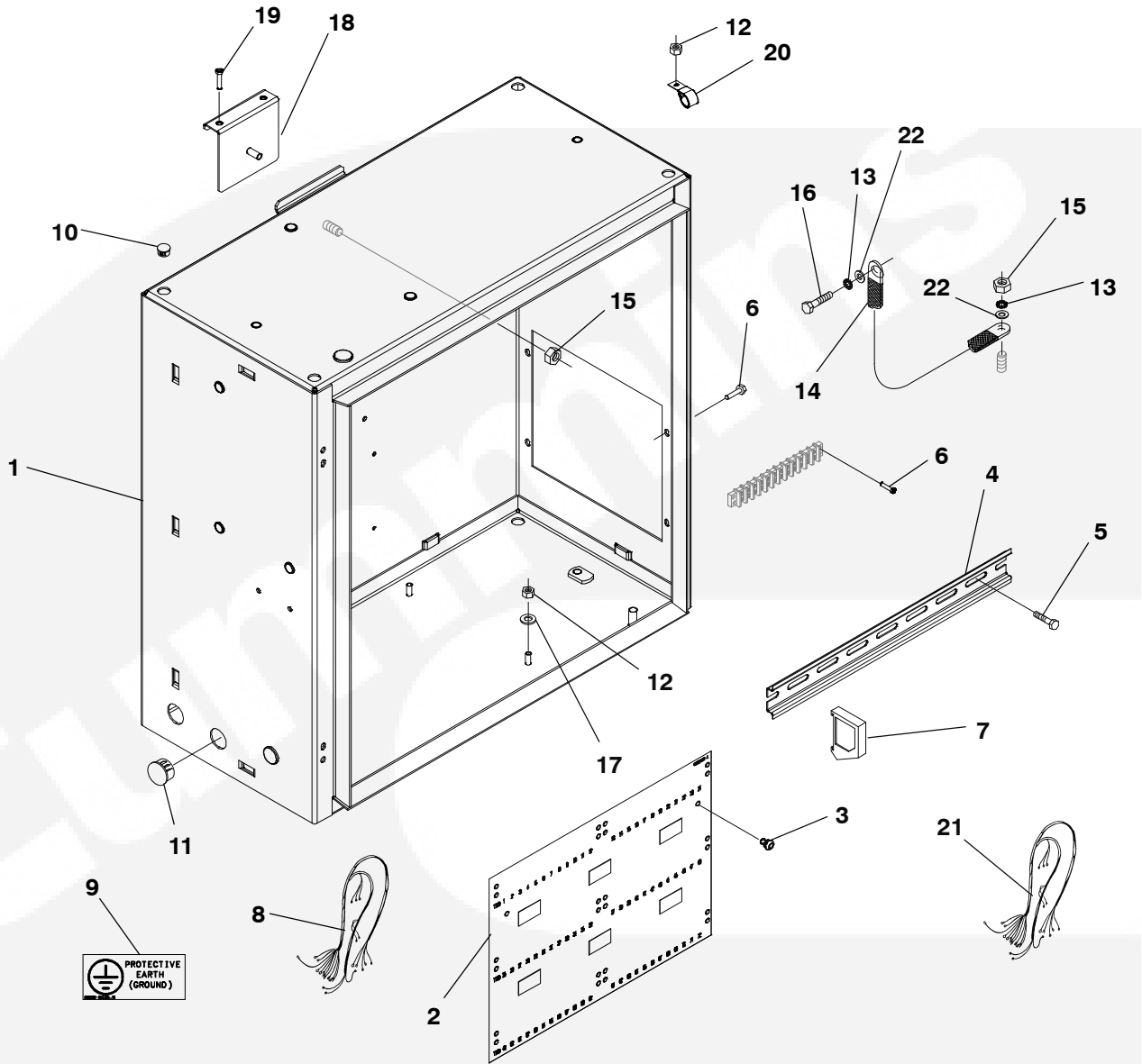
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 150 Watt	3	332-3125-01	2	Block, Terminal
	333-0645-01	1	120 Volt	4	332-3126-01	1	Endplate, Terminal
	333-0645-02	1	240 Volt	5	098-6195	2	Label, Caution
2	818-1150-02	2	Rivet, Drive	6	335-0173-03	1	Cable Assembly (120V)
				7	332-4002	1	Block, Terminal – Ground

Customer Relays



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1056-01	1	Relay (24 Volt)	2	323-1410-01	1	Socket, Relay
	307-1056-01	3	Alarm Relay (K16)		323-1410-01	3	Alarm Relay
			Run Relay (K11,12,13)				Run Relay

Control Box

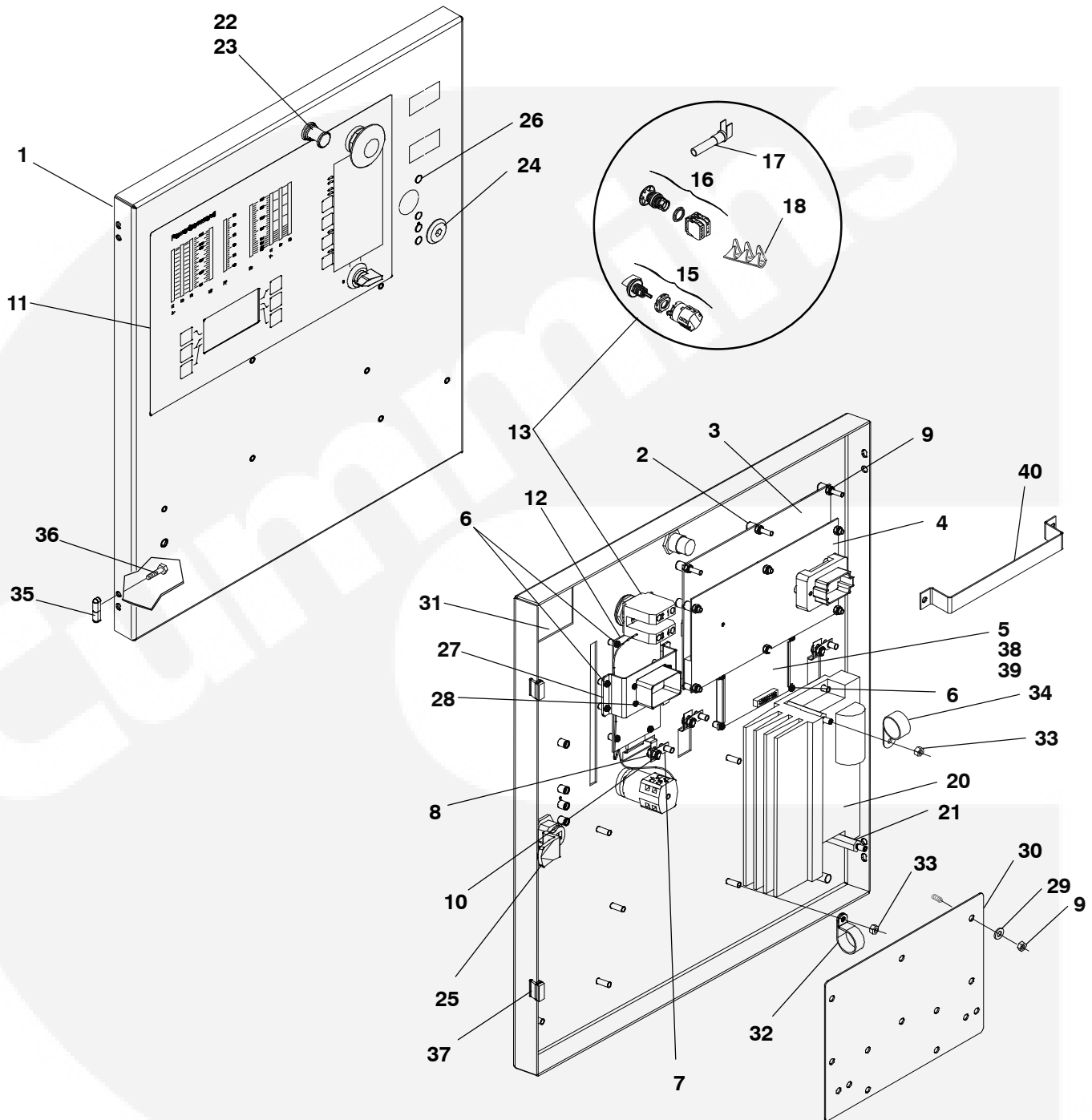


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5014-02	1	Box, Control	12	870-2062	2	Nut, Nylon – Lock (M5)
2	098-8121	1	Label, Information	13	853-2008	4	Washer, Lock – W/ET (M8)
3	818-1150-02	2	Rivet, Drive	14	337-0049	2	Strap, Ground
4	332-2879-09	1	Rail, Terminal	15	870-2055	4	Nut, Lock – Flange (M8)
5	815-0793-02	2	Screw, Hex Head – Flange (M5 x 0.8 x 10)	16	821-2045	1	Screw, Locking – Flange (M8 x 1.25 x 16)
6	823-0002-05	24	Screw, Pan Head – Torx – Thread Forming (M4 x 0.7 x 14)	17	526-0008	2	Washer, Flat (M5)
7	332-2878	2	Block, Terminal	18	319-5135-02	1	Bracket, Cable
8	338-4315	1	Harness, Lonworks	19	819-1157	2	Screw, Pan Head – Cross Recessed (M6 x 1 x 50)
9	098-6635	1	Label, Ground	20	332-3196	1	Clamp, J
10	517-0133	8	Plug, Hole	21	338-4363	1	Harness, Meter (Includes Resistor)
11	517-0137	2	Plug, Hole	22	526-0115	2	Washer, Flat

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Control Door



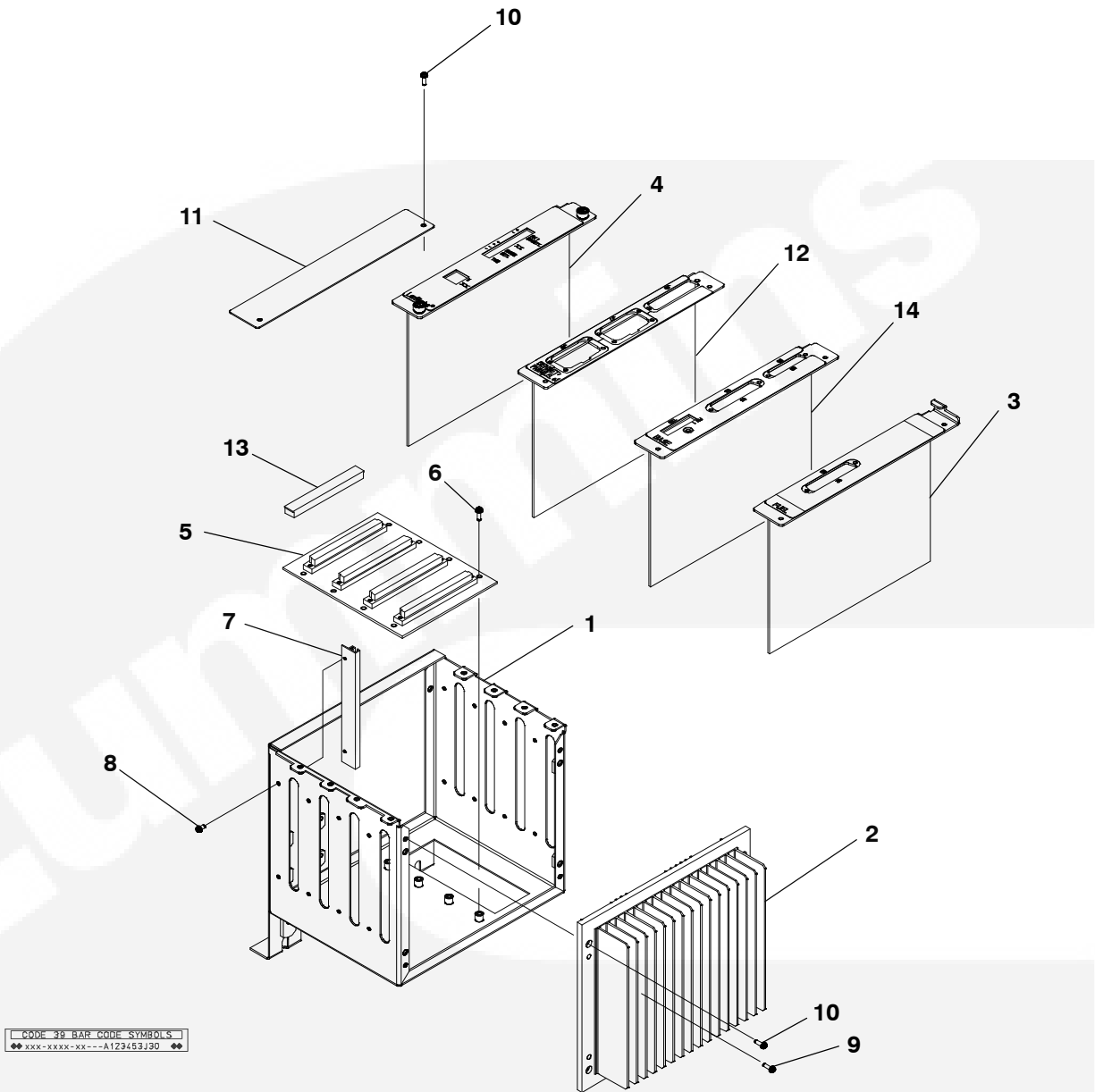
Control Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5018-02	1	Door, Control Box	16	308-0999	1	*# Switch, Emergency Stop
2	332-1911	15	Spacer, LED	17	323-1688	6	*# Socket, Terminal
3	300-5180	1	Board, Printed Circuit – Bargraph	18	332-3491-01	6	*# Terminal, Wire Pin
4	300-5179	1	Board, Printed Circuit – Operator Panel – Digital	19	308-1085-01	1	# Switch, Selector – Switch Panel With Key (Not Illustrated)
5	326-0230	1	Display, Digital	20	300-4306	1	Regulator, Auto Voltage
6			Screw, Pan Head – Thread Forming (M3 x 0.5 x 6)	21	872-0019-01	2	Standoff
	823-0001-01	8	Without Digital Display	22	322-0361	1	Light, Panel
	823-0001-01	12	With Digital Display	23	322-0017	1	Lamp, Panel
7	526-2303	1	Washer, Double Hole	24	406-0930	1	Latch, Door (1/4 Turn)
8			Nut, Hex (M5 x .8)	25	406-0932-02	1	Latch, Cam (Single Point)
	860-2006	1	Without Digital Display	26	322-0488	4	Lens, LED
	860-2006	3	With Digital Display	27	319-4918-02	1	Bracket, Printed Circuit Board
9			Nut, Nyloc (M4)	28	815-0796	4	Screw, Pan Head – Thread Cutting (4–24 x 5/16)
	870-2064-01	4	Without Digital Display	29	526-2050	4	Washer (M4) – Without Digital Display
	870-2064-01	9	With Digital Display	30	319-5091-02	1	Panel, Control Box – Without Digital Display
10			Nut, Nylon – Lock (M5)	31	098-6989	1	Label, Bar Code
	870-2062	1	Without Digital Display	32	425-1799	2	Clamp, Cable
	870-2062	3	With Digital Display	33	870-2062	4	Nut, Nylon – Lock (M5)
11			Display, Control	34	332-0052	1	Clip, Wire
	300-5773-01	1	Without Digital Display	35	406-0810	2	Hinge, Block
	300-5685-01	1	With Digital Display	36	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)
12	300-5181	1	Board, Printed Circuit – Software Panel	37	508-1186	2	Bumper
13			Harness, Switch Panel (Includes Parts Marked *)	38	405-7779	1	Gasket, Enclosure (PC Cover)
	338-3801	1	Switch Panel With Knob	39	319-5194	1	Cover, Printed Circuit Board
	338-3801-01	1	Switch Panel With Key	40	319-5193	1	Bracket, Control
14	323-1839	1	*# Connector – 6 Pin (Not Illustrated)				
15	308-1085	1	* Switch, Selector – Switch Panel With Knob				

* – Included in 338-3801 Wiring Harness

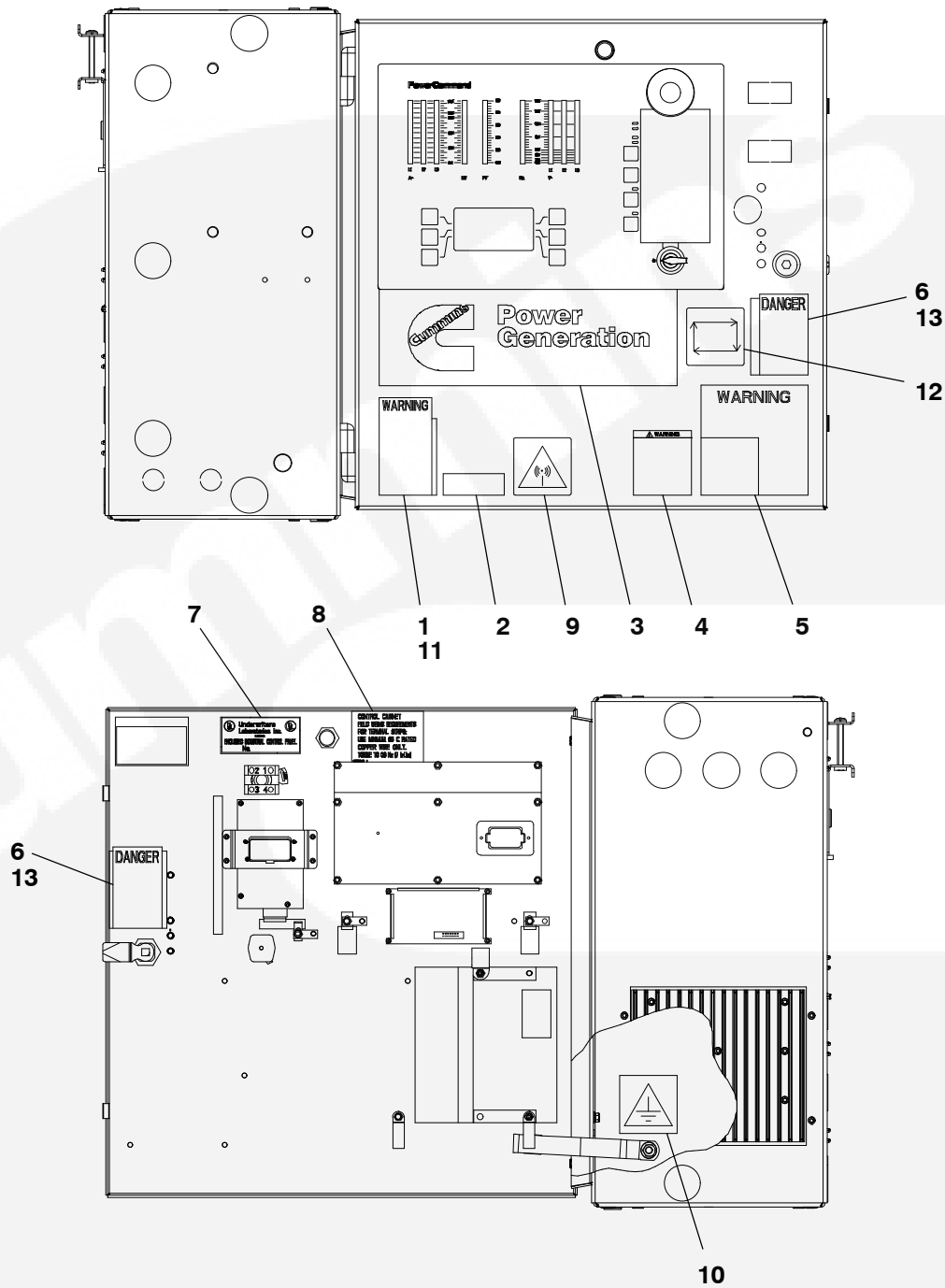
– Included in 338-3801-01 Wiring Harness

Card Cage



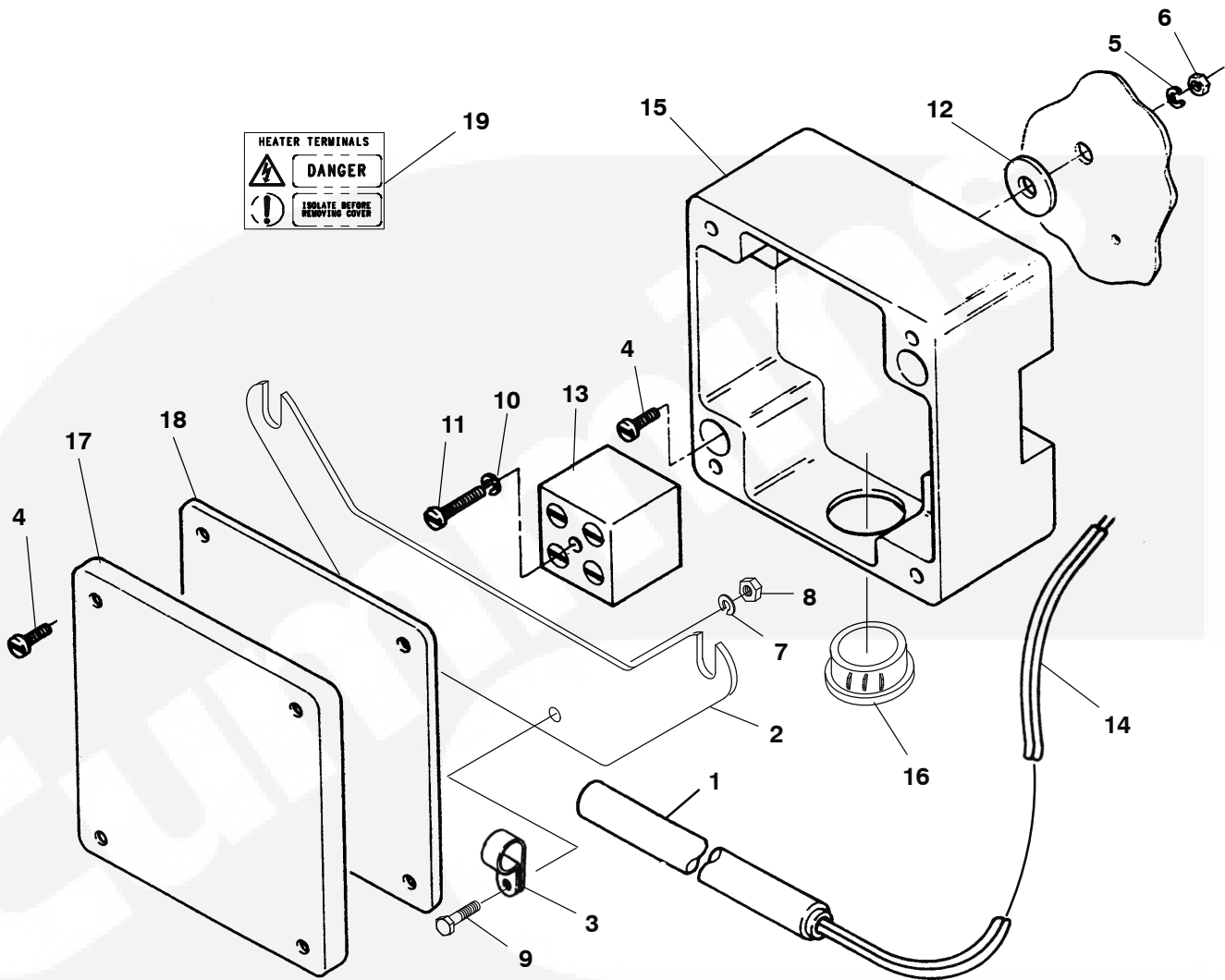
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5096-02	1	Frame, Cabinet	9	823-0002-04	8	Screw, Pan Head – Torx – Thread Forming (M4 x 0.7 x 12)
2	363-0183	1	Heatsink, Genset	10	815-0947	12	Screw (M3 x 10)
3	300-4970	1	Board, Printed Circuit – Fuel PT Fuel	11	319-5079	A/R	Cover, Control – Blank
	300-5126	1	TP Fuel	12			Board, Printed Circuit – Parallel Genset
4	327-1387	1	Board, Printed Circuit – NCM		327-1376-01	1	Full Feature (Marked #2)
5	327-1390	1	Board, Printed Circuit – Backplane		327-1376-02	1	Depop Feature (Marked #1)
6	815-0948	8	Screw, Torq (M4 x 6)	13	323-1848	1	Cover, 96-Pin Header
7	406-0916	4	Guide, Metal Guide Left Side	14	327-1418	1	Board, Printed Circuit – Genset Base
	406-0917	4	Right Side				
8	815-0949	16	Screw (4-40 x 1/4)				

Control Box Labels



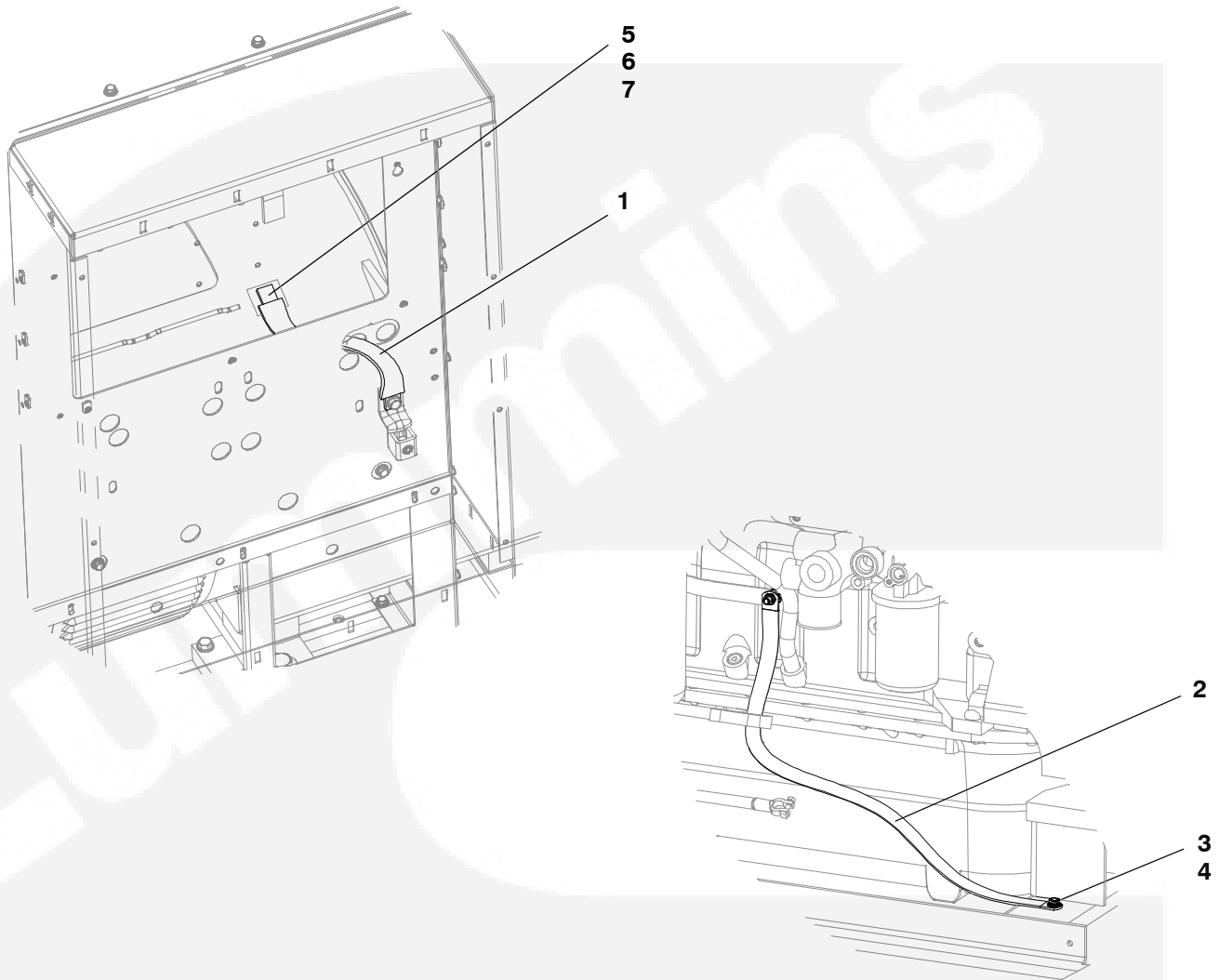
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-6074-02	1	Label, Warning	8	098-8143	1	Label, Information
2	098-6118	1	Label, Cabinet	9	098-8093	1	Label, Caution
3	098-7902-03	1	Label, Logo	10	098-8097	1	Label, Information
4	098-5759	1	Label, Warning	11	098-8098	1	Label, Instruction
5	098-4732	1	Label, Warning	12	098-8099	1	Label, Danger
6	098-5387	2	Label, Danger	13	098-8100	2	Label, Warning
7	098-6984	1	Label, UL				

Generator Heater



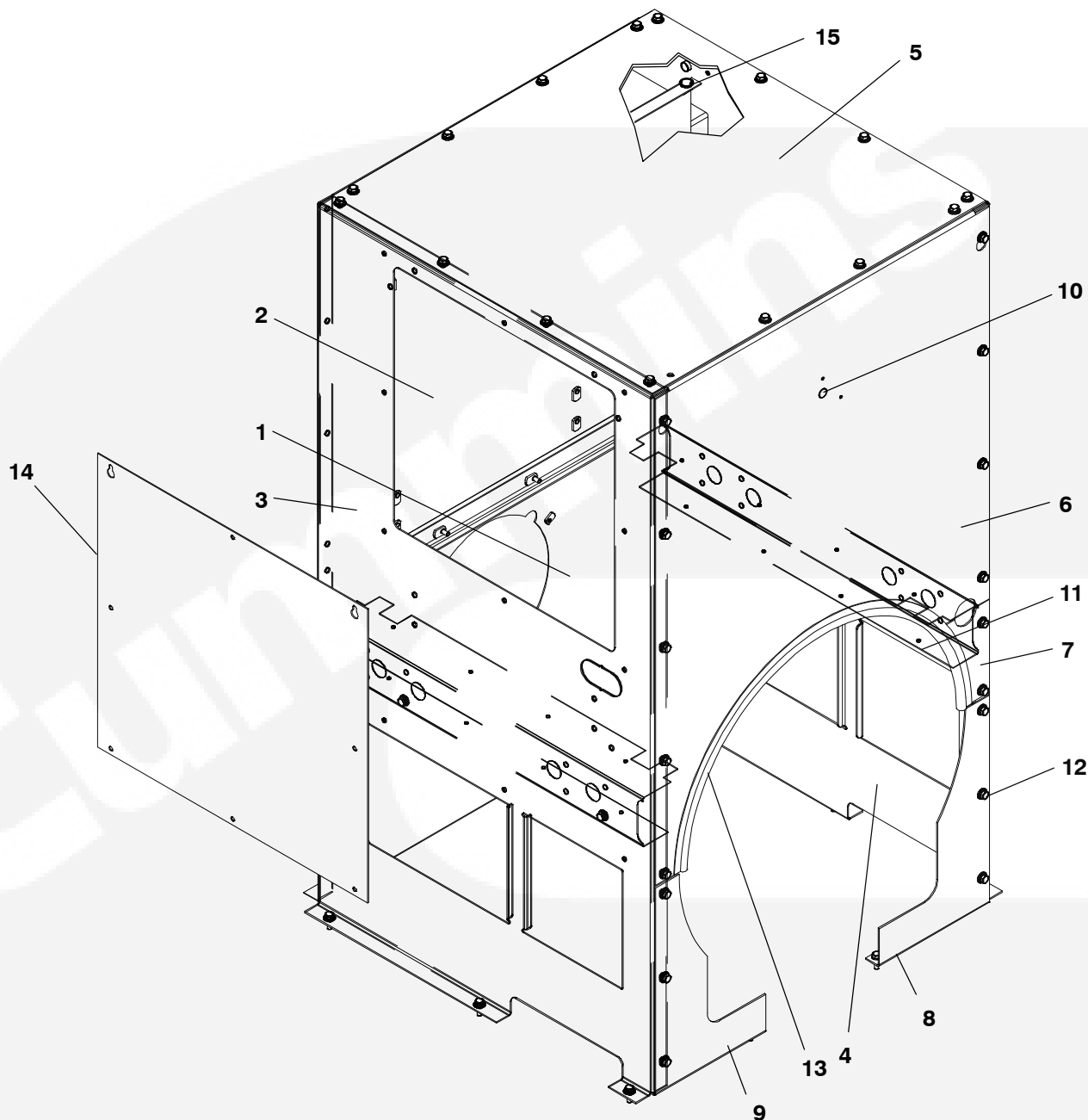
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-1416	1	* Kit Heater, Relay Cartridge, Heater (300 Watt)	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
	333-0438-05	1	110/125 Volts	12	508-0228	1	Grommet
	333-0438-06	1	220/260 Volts	13	332-3023	1	Block, Terminal
2	232-3849	1	Bracket, Mounting – Heater	14	898-1254-25	1	Sleeving – Heater Leads (59")
3	332-3024-14	2	Clamp, Loop	15	330-0142	1	Box, Terminal
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	16	517-0021	1	Plug, Dot Button
5	850-2004	2	Washer, Lock – Spring (M4)	17	330-0141-03	1	Cover, Box
6	860-2005	2	Nut, Hex (M4)	18	330-0141-04	1	Gasket, Cover
7	850-2005	2	Washer, Lock – Spring (M5)	19	098-7281	1	Label, Heater Warning
8	860-2006	2	Nut, Hex (M5)	20	331-0027	1	Romex, Connector (Not Illustrated)
9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)	21	335-0173-04	1	Cable (Not Illustrated)
10	850-2003	1	Washer, Lock – Spring (M3)	* – Available for failed units, models DFEG, DFEH, DFEJ and DFEK. Not required for functioning units.			

Ground Strap



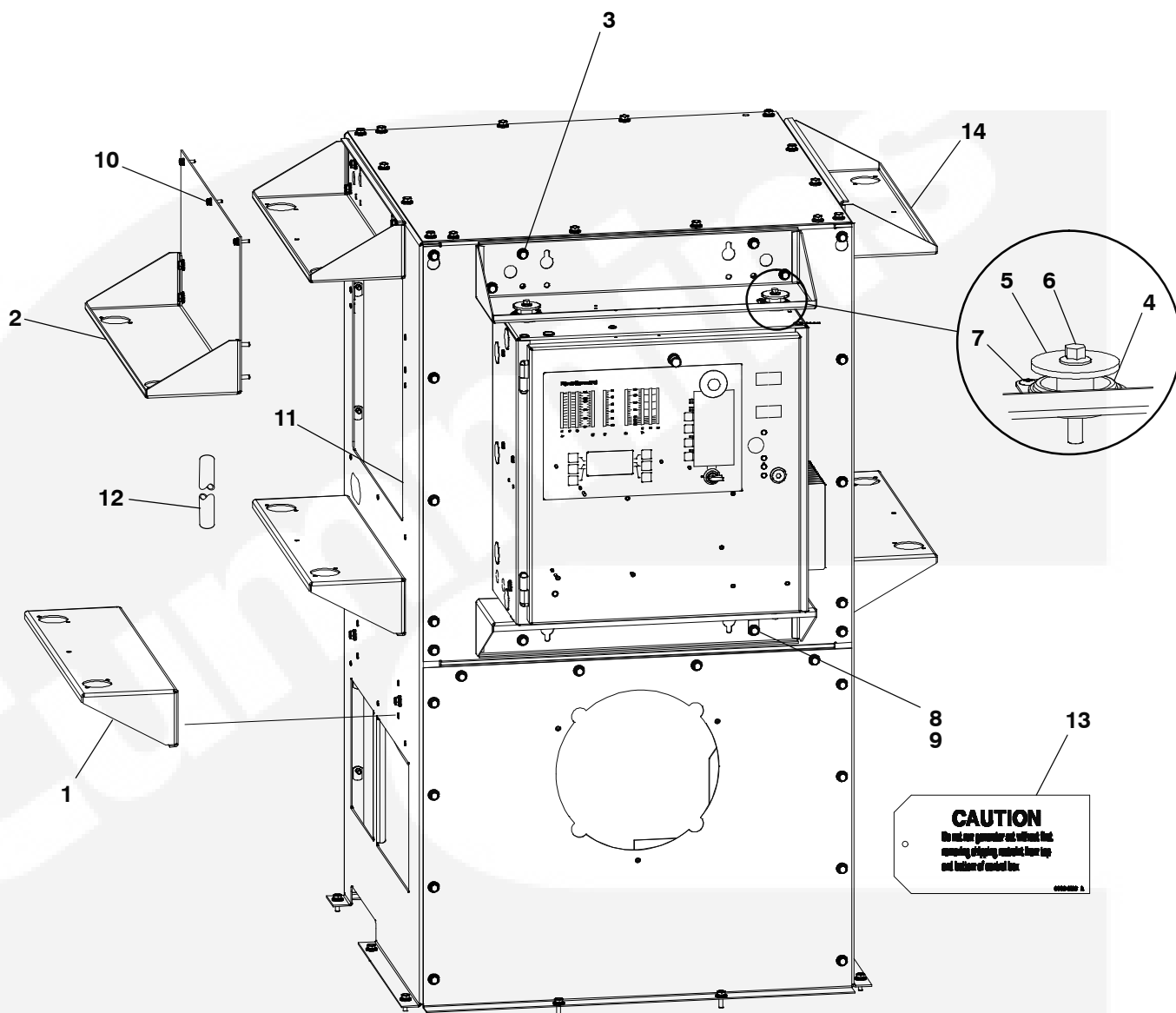
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Strap, Ground (Circuit Breaker to Generator)	6			Washer, Flat (M10)
	337-3538-01	1	With 1 Circuit Breaker		526-2120	1	With 1 Circuit Breaker
	337-3538-01	2	With 2 Circuit Breakers		526-2120	2	With 2 Circuit Breakers
2	337-0090-01	2	Strap, Electrical (Generator to Skid)	7			Screw, Cap - Hex Head (M10 x 1.5 x 35)
3	821-6003-02	1	Screw, Hex Head (M8 x 1.25 x 20)		800-2088	1	With 1 Circuit Breaker
4	853-2008	1	Washer, Lock - W/ET (M8)		800-2088	2	With 2 Circuit Breakers
5			Washer, Lock - W/ET (M10)				
	853-2010	1	With 1 Circuit Breaker				
	853-2010	2	With 2 Circuit Breakers				

Output Box



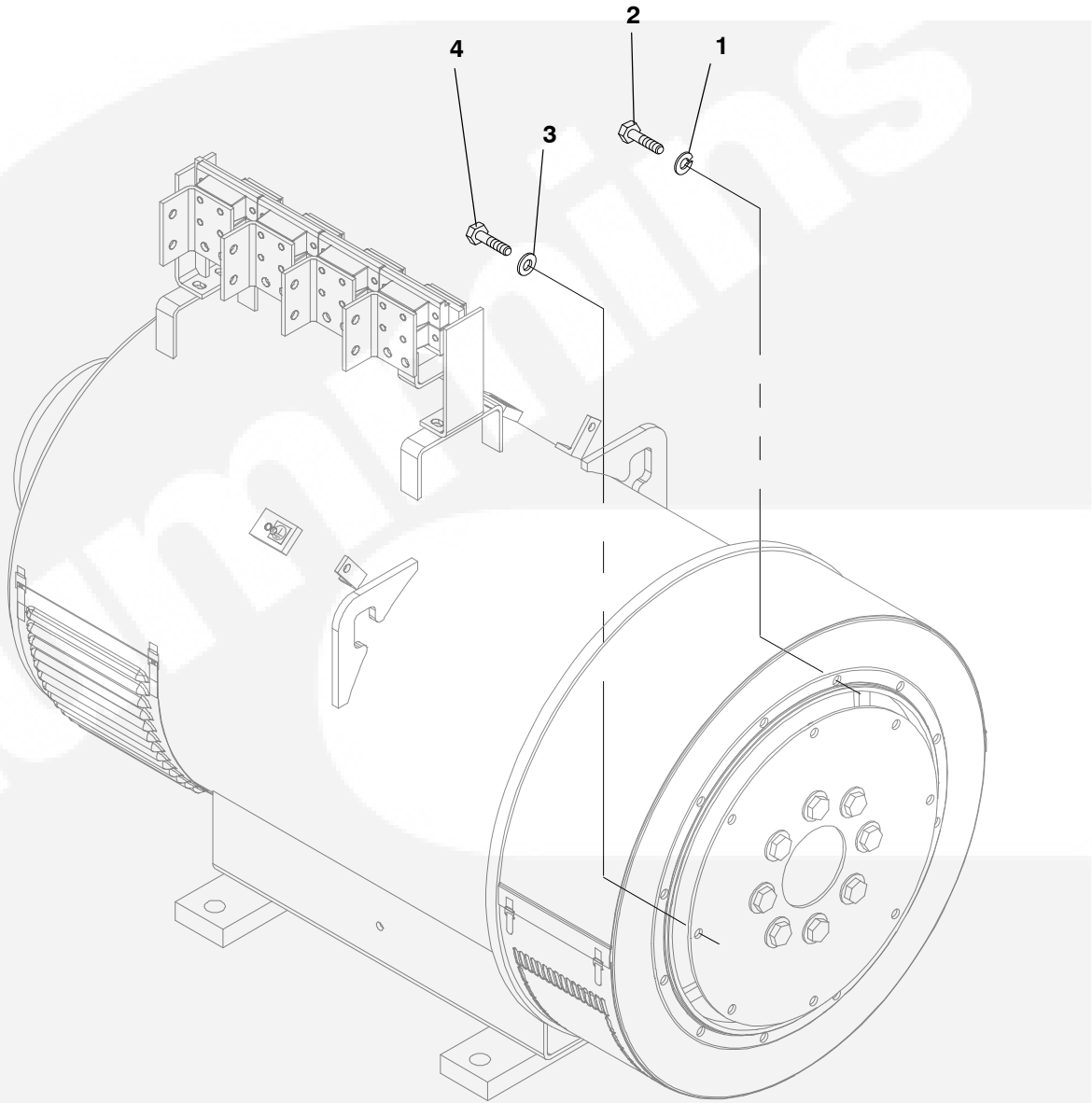
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4194-02	1	Panel, Control Housing – Lower	11	319-4197-02	2	Shield, Safety
2	319-5144-02	1	Panel, Control Box – Front	12	821-6003-02	69	Screw, Hex Head (M8 x 1.25 x 20)
3	319-5143-02	1	Panel, Control Box – Right	13	508-1188	-	Edging, Seal – Bulk (Order by the Foot – 4 Feet Required)
4	319-5142-02	1	Panel, Control Box – Left	14	319-3989-02	1	Cover, Control Sets With Side Mount Control or a Circuit Breaker
5	319-4364-02	1	Panel, Control Housing – Top	15	517-0132	2	Plug, Hole
6	319-3955-02	1	Panel, Control Housing				
7	319-4130-02	1	Panel, Control Housing				
8	319-3988-02	1	Panel, Control Housing				
9	319-3981-02	1	Panel, Control Housing				
10	517-0135	3	Plug, Hole				

Control Box Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5052-02	1	Bracket, Control	8	337-0049	1	Strap, Bond
2	319-5145-02	1	Bracket, Control Box	9	853-2008	2	Washer, Lock - W/ET (M8)
3	821-6003-02	10	Screw, Hex Head (M8 x 1.25 x 20)	10	821-6002-04	3	Screw, Hex Head (M6 x 1 x 20)
4	402-0666-01	4	Isolator, Vibration	11	508-1189	-	Edging - Bulk (Order by the Foot - 1 Foot Required)
5	526-0324	4	Washer, Flat (3/8)	12	503-1418	-	Hose, Fuel - Bulk (Order by the Foot - 4 Foot Required)
6	815-0776	4	Screw, Hex - Flange Head (M8 x 1.25 x 45)	13	098-8186	1	Label, Caution
7	818-0231-02	8	Rivet, Pop	14	319-5275-02	1	Bracket, Control Panel

Generator Mounting



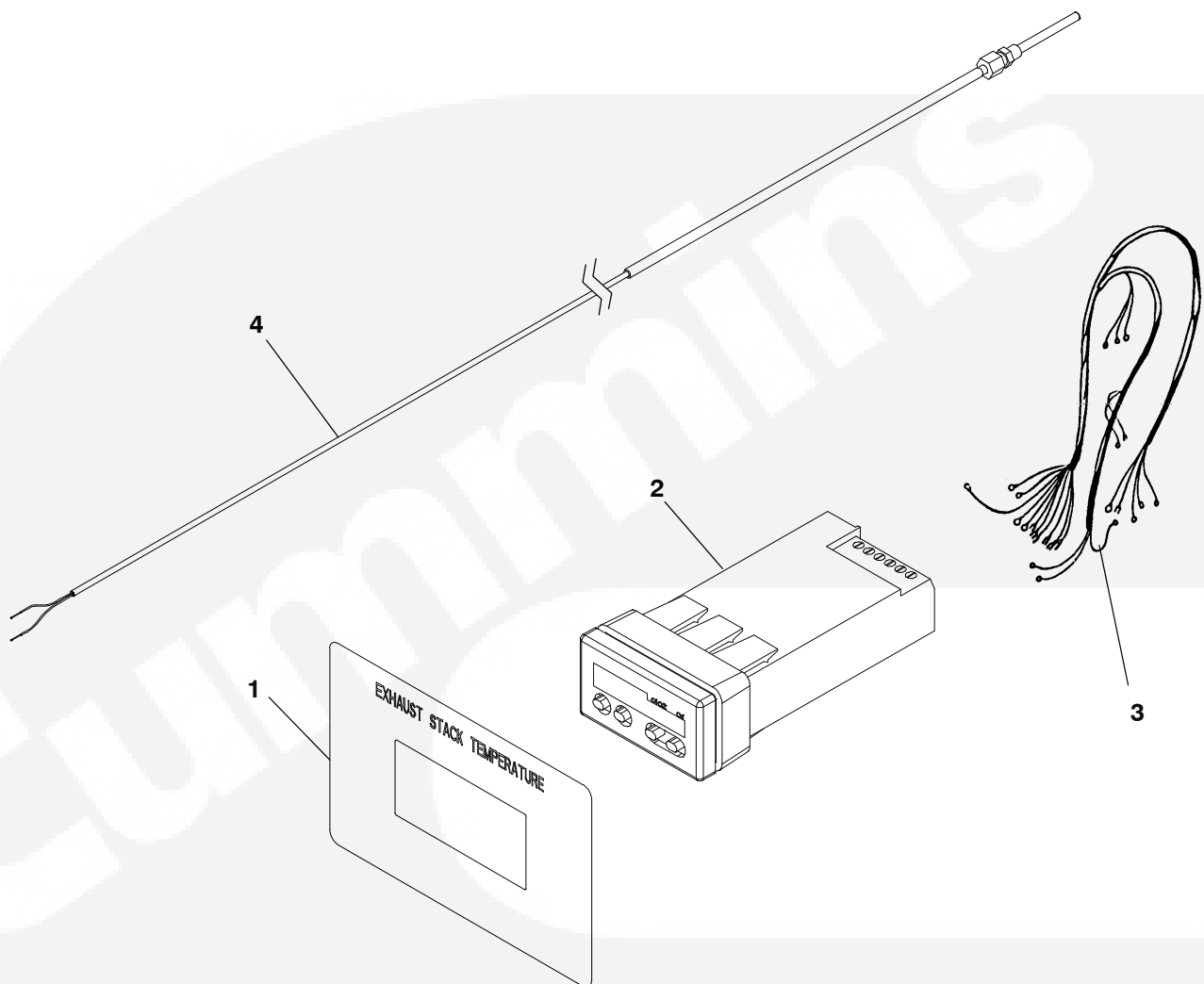
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0034-01	12	Washer, Cylinder Head (7/16)	3	526-0035	8	Washer, Flat (1/2)
2	800-0608-02	12	Screw, Cap – Hex Head (7/16–14 x 1.75)	4	805-0032	8	Bolt, Place (1/2–13 x 1.25)

Generator

Refer to the Newage nameplate and supply all available identification number listed below.
information. Contact your nearest Newage distributor
for assistance in ordering component parts. For
COMPLETE generator replacement use the
200-XXXX-XX Cummins Power Generation

Cummins Power Generation Identification Number	Generator Model Number
200-3182-17	HC434C
200-3182-18	HC434D
200-3182-19	HC434E
200-3182-20	HC434F
200-3182-49	HC434C
200-3182-50	HC434D
200-3182-51	HC434E
200-3182-52	HC434F

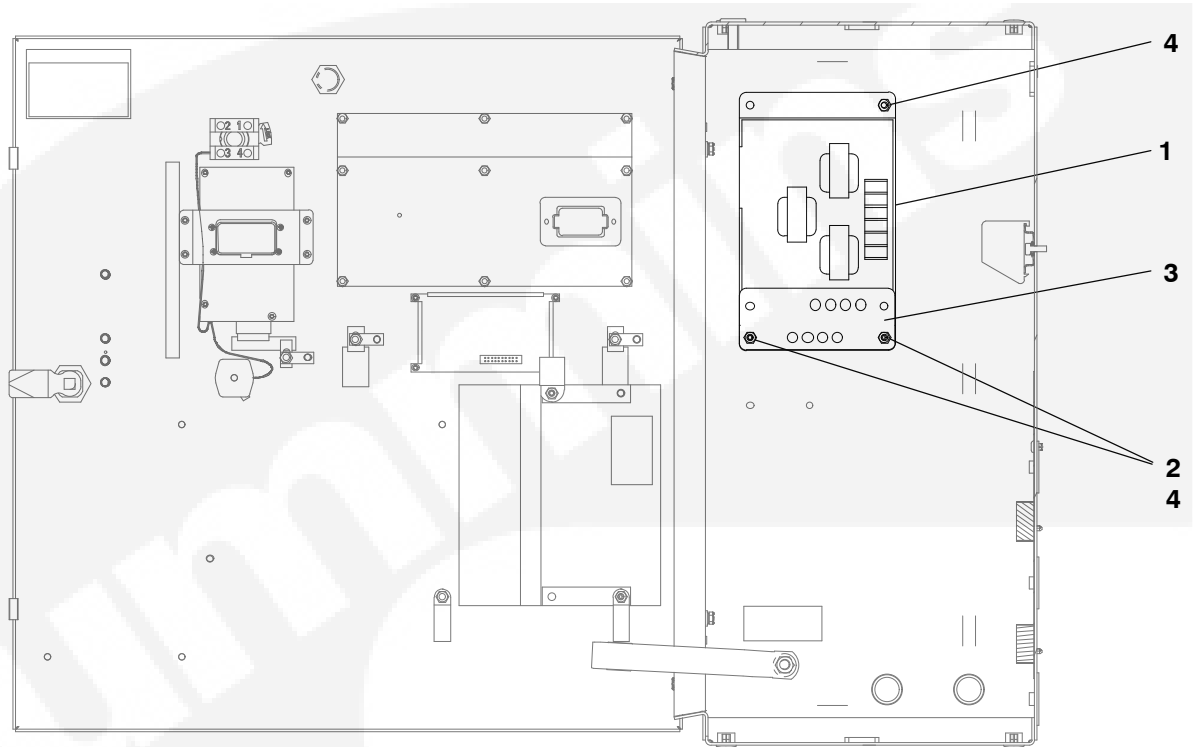
Pyrometer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7720-01	1	Label, Exhaust Pyrometer
2	300-5796	1	Pyrometer, Exhaust

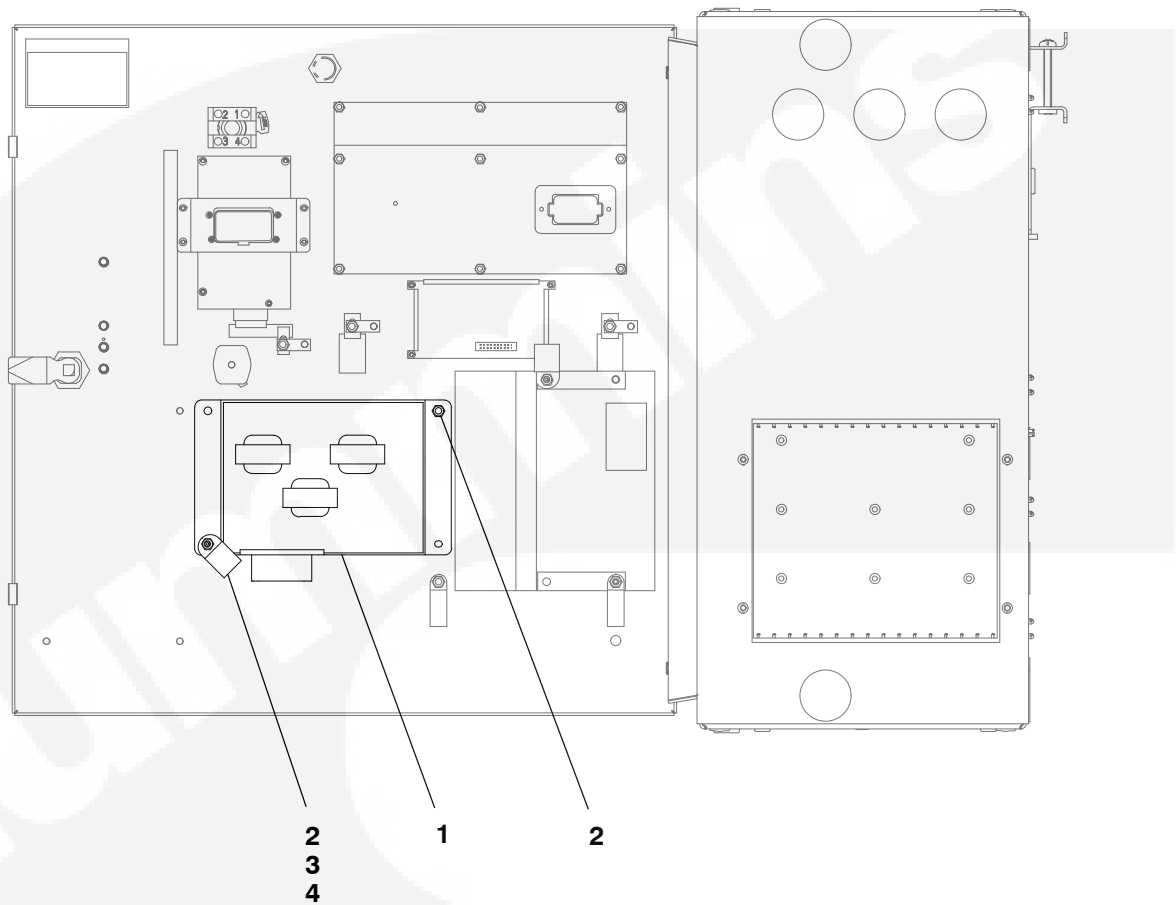
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	338-4340-01	1	Harness, Meter – Pyrometer
4	193-0493-01	1	Sender, Temperature

Bus PT Module



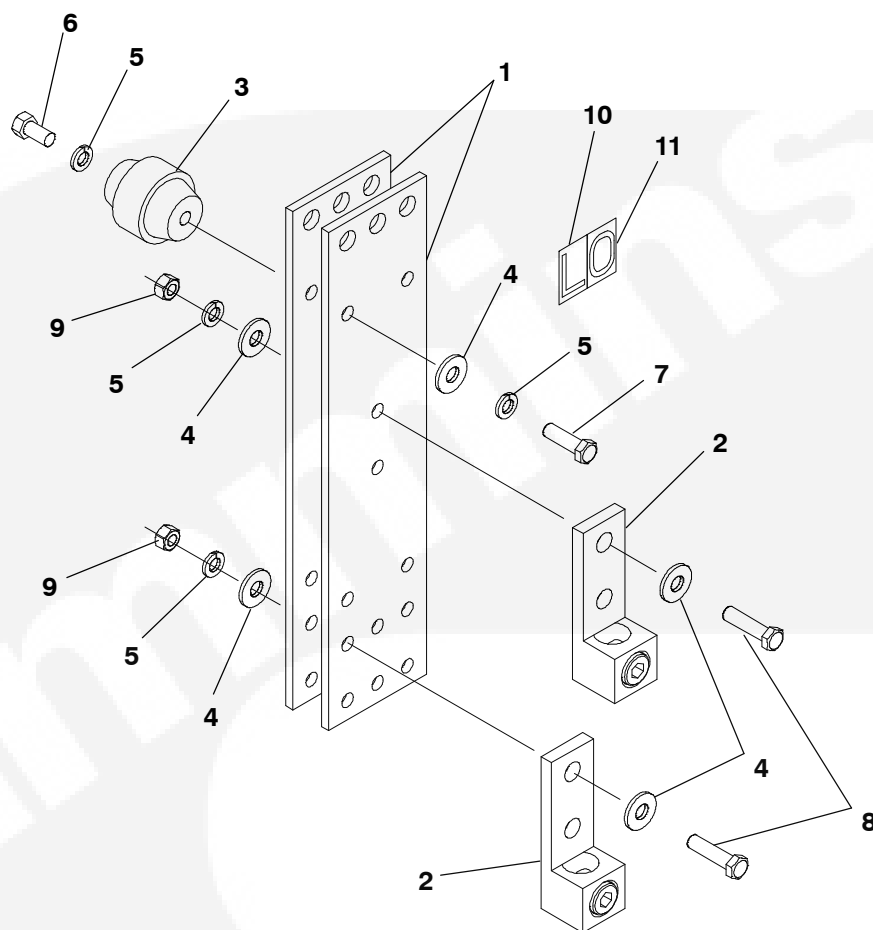
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Bus PT Module	2	872-0019-01	2	Standoff
	300-4309-01	1	120 Volt	3	319-5060	1	Guard, Electrical
	300-4309-02	1	240 Volt	4	870-2062	3	Nut, Lock – Nylon (M5)
	300-4309-03	1	346 Volt				
	300-4309-04	1	69 Volt				

PT/CT Module



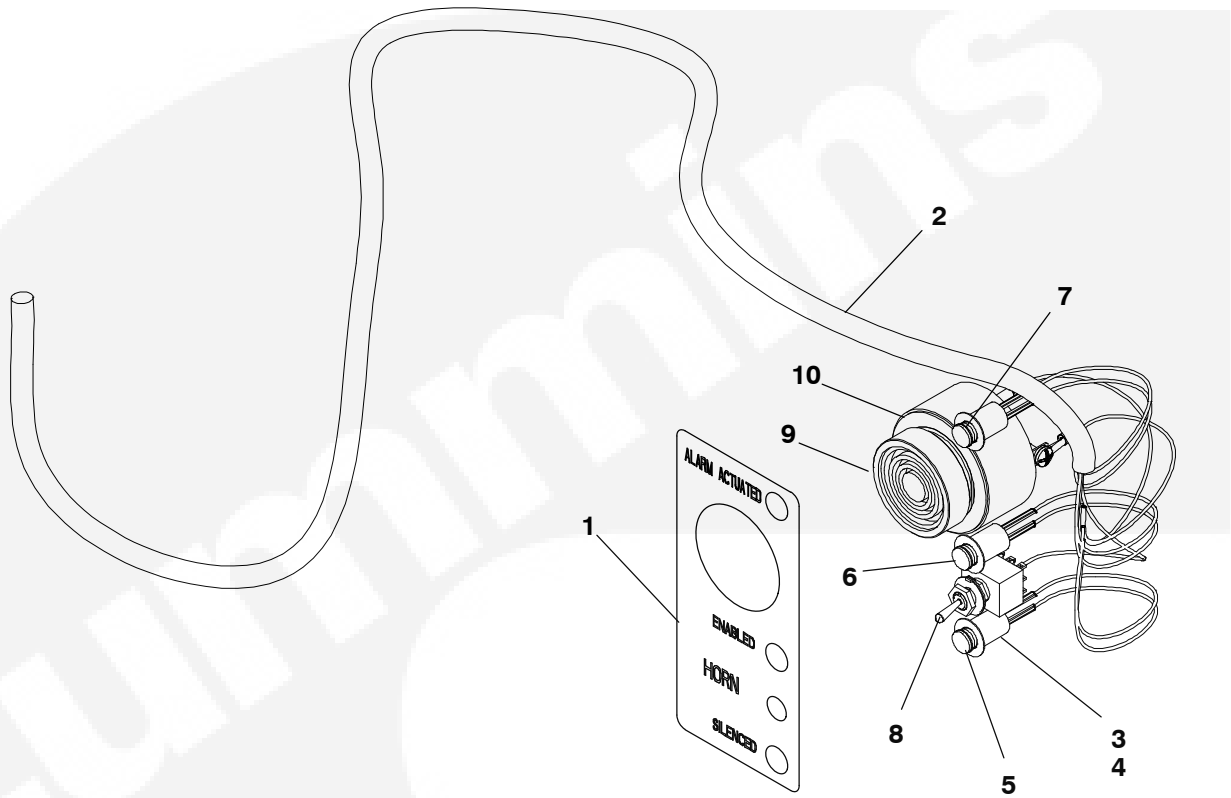
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – PT/CT Module	2	870–2062	2	Nut, Lock – Nylon (M5)
300–4308–01	1		120 Volt	3	872–0019–01	1	Standoff
300–4308–02	1		240 Volt	4	332–0052	1	Clip, Wire
300–4308–03	1		346 Volt				

Neutral Bar



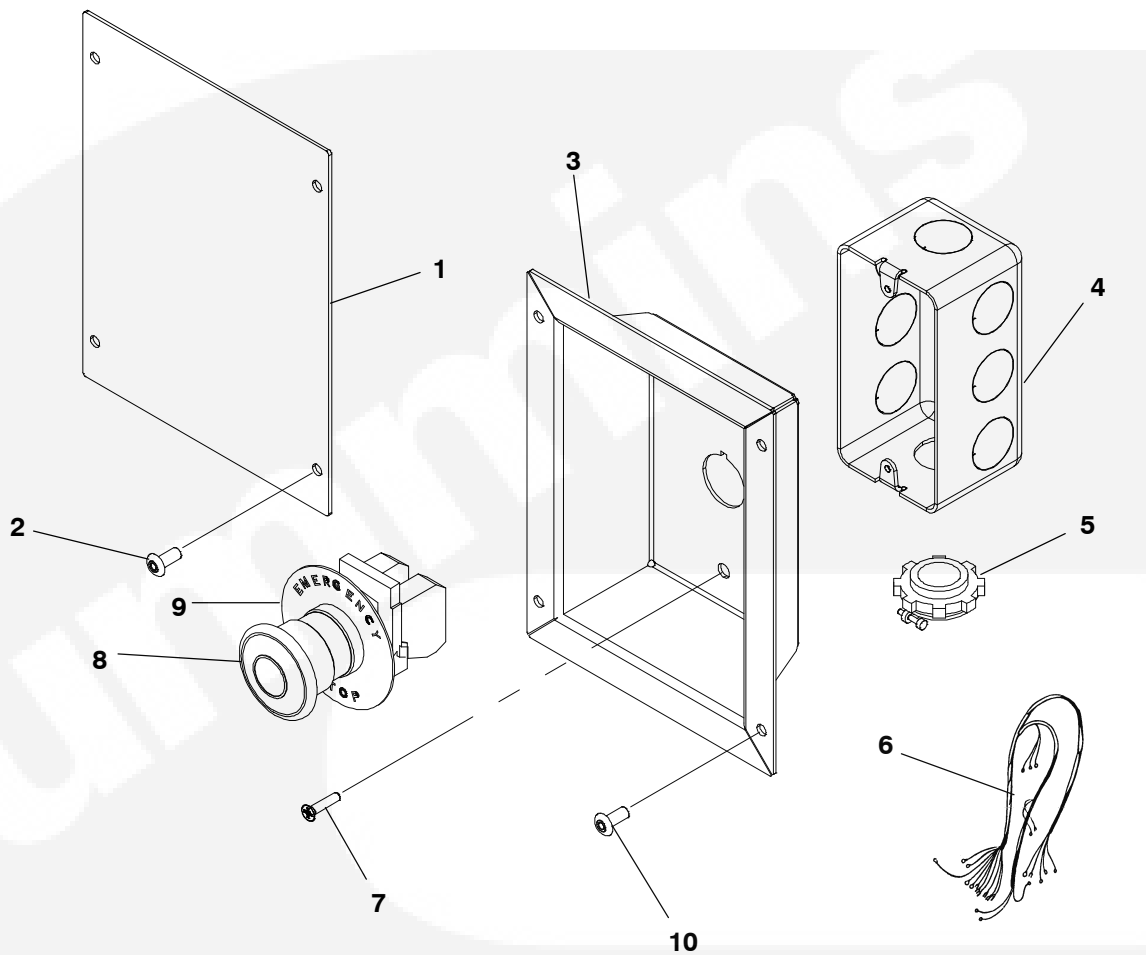
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-3514	2	Bar, Neutral	7	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1.25)
2	332-3788	3	Lug, Solderless	8	800-0053	6	Screw, Cap - Hex Head (3/8-16 x 1.75)
3	332-2744-07	2	Standoff, Insulator	9	862-0003	6	Nut, Hex - Heavy (3/8-16)
4	526-0399-20	14	Washer, Flat	10	098-5854-06	1	Label, Bus Marking
5	850-0050	10	Washer, Lock - Split (3/8)	11	098-5854-10	1	Label, Bus Marking
6	800-0048	2	Screw, Cap - Hex Head (3/8-16 x .75)				

Audible Alarm Module



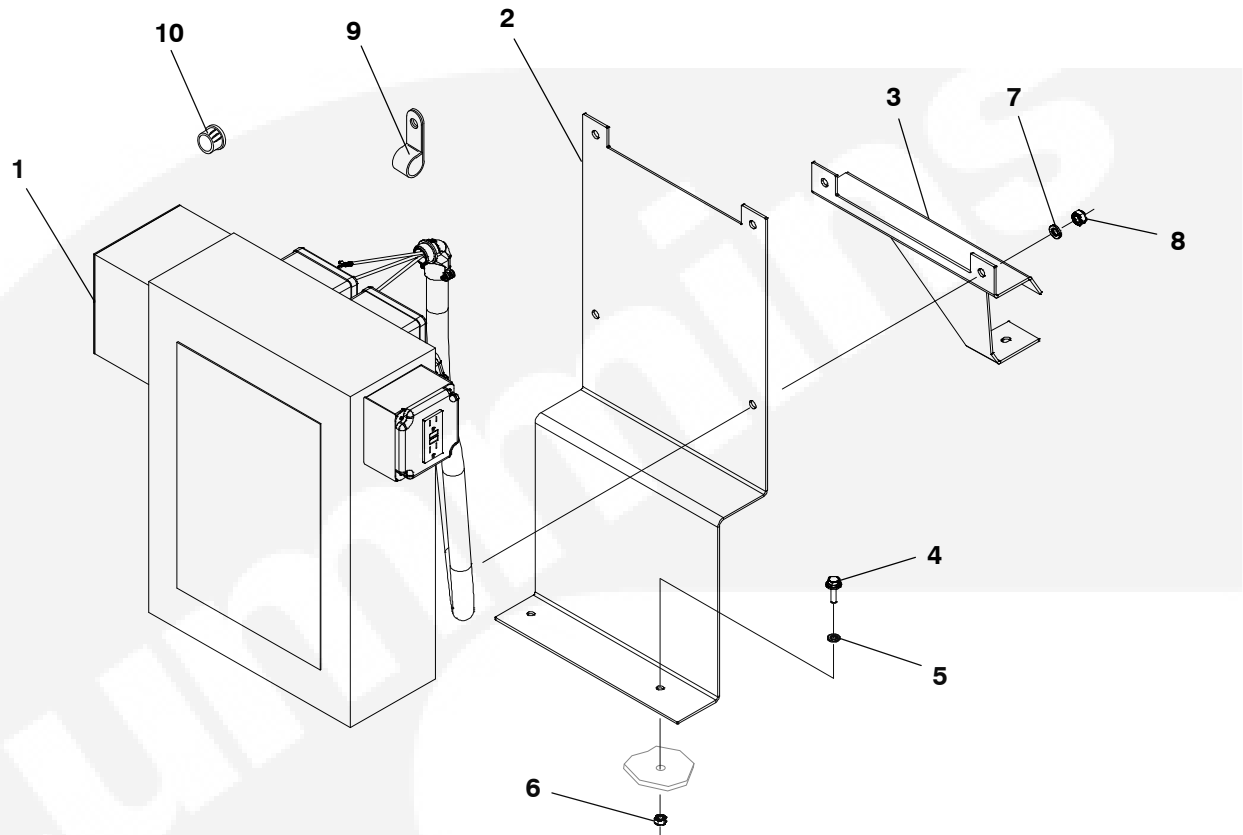
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7719-01	1	Label, Alarm	6	322-0493-04	1	Lens, LED (Green)
2	338-4351	1	Harness, Alarm (Includes the Following Parts)	7	322-0493-06	1	Lens, LED (Red)
3	323-1899-01	3	Connector, LED	8	308-1105	1	Switch, Toggle
4	322-0491	3	Lamp, LED – High Intensity	9	333-0654	1	Alarm, Audible
5	322-0493-05	1	Lens, LED (Amber)	10	895-0401	1	Gasket, Audible Alarm

Emergency Stop Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Enclosure - Adapter	6	338-4293	1	Harness, Switch - E-Stop
	405-7658-02	1	Steel	7	815-0918	2	Screw, Machine - Flat Head - Cross Recessed (#6-32 x .62)
	405-7997	1	Aluminum	8	308-0999	1	Switch, Push Button - E-Stop
2	818-0231-02	4	Rivet, Pop	9	308-1177	1	Bezel, Switch
3	319-5125	1	Cup, Switch	10	818-0231-06	4	Rivet, Pop
4	330-0005	1	Box, Handy				
5	331-0027	1	Connector, Romex				

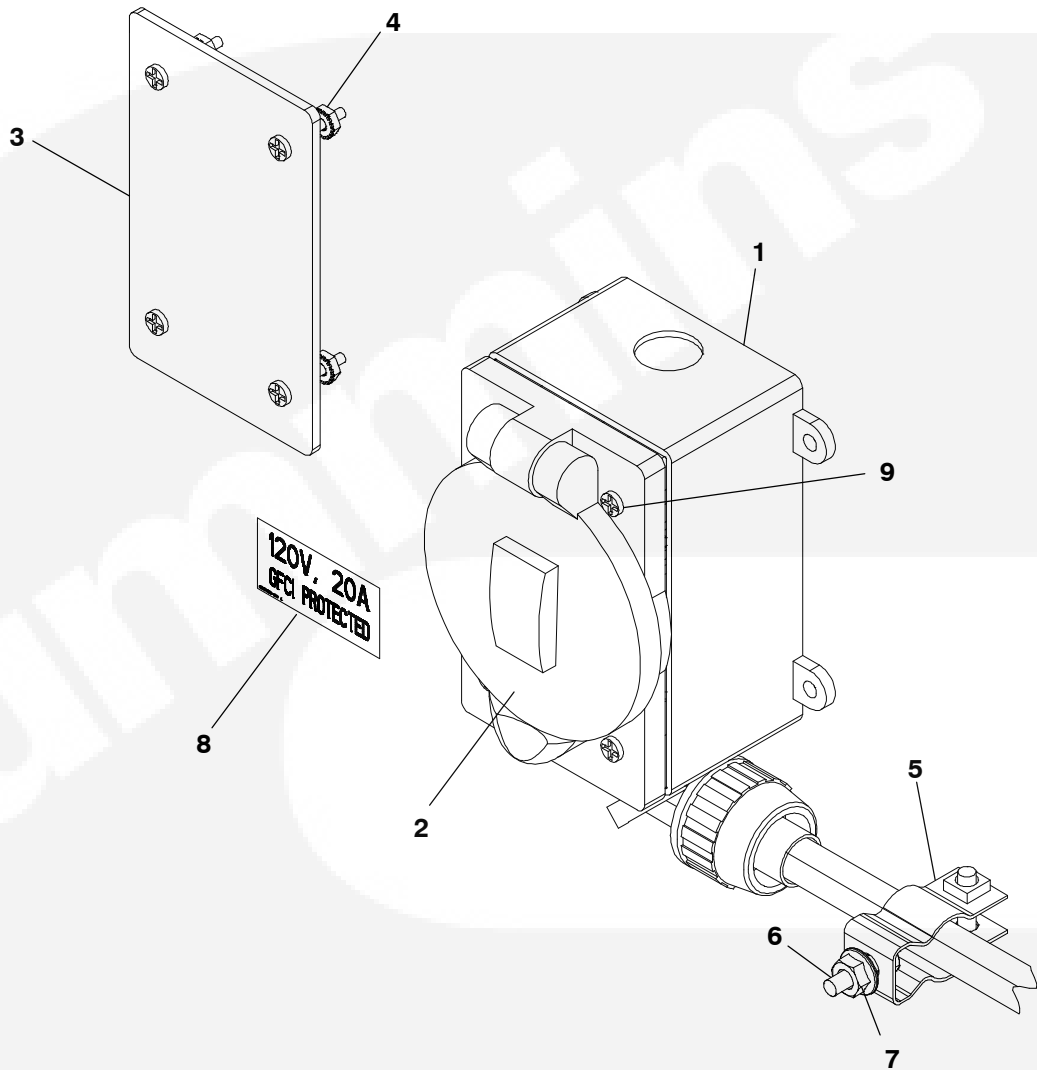
Distribution Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-2197	1	Breaker, Circuit - Assembly
2	319-5126-02	1	Bracket, Circuit Breaker
3	319-5127-02	1	Bracket, Circuit Breaker
4	821-6003-03	3	Screw, Hex Head (M8 x 1.25 x 25)
5	526-2101	5	Washer, Flat (M8)
6	860-2008	5	Nut, Hex (M8 x 1.25)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	850-2010	4	Washer, Lock - Split (M10)
8	860-2009	4	Nut, Hex (M10 x 1.5)
9	518-0548-15	2	Clamp, Loop - With Coolant Heater
10	517-0138-02	1	Plug, Hole - Without Coolant Heater

External Receptacle

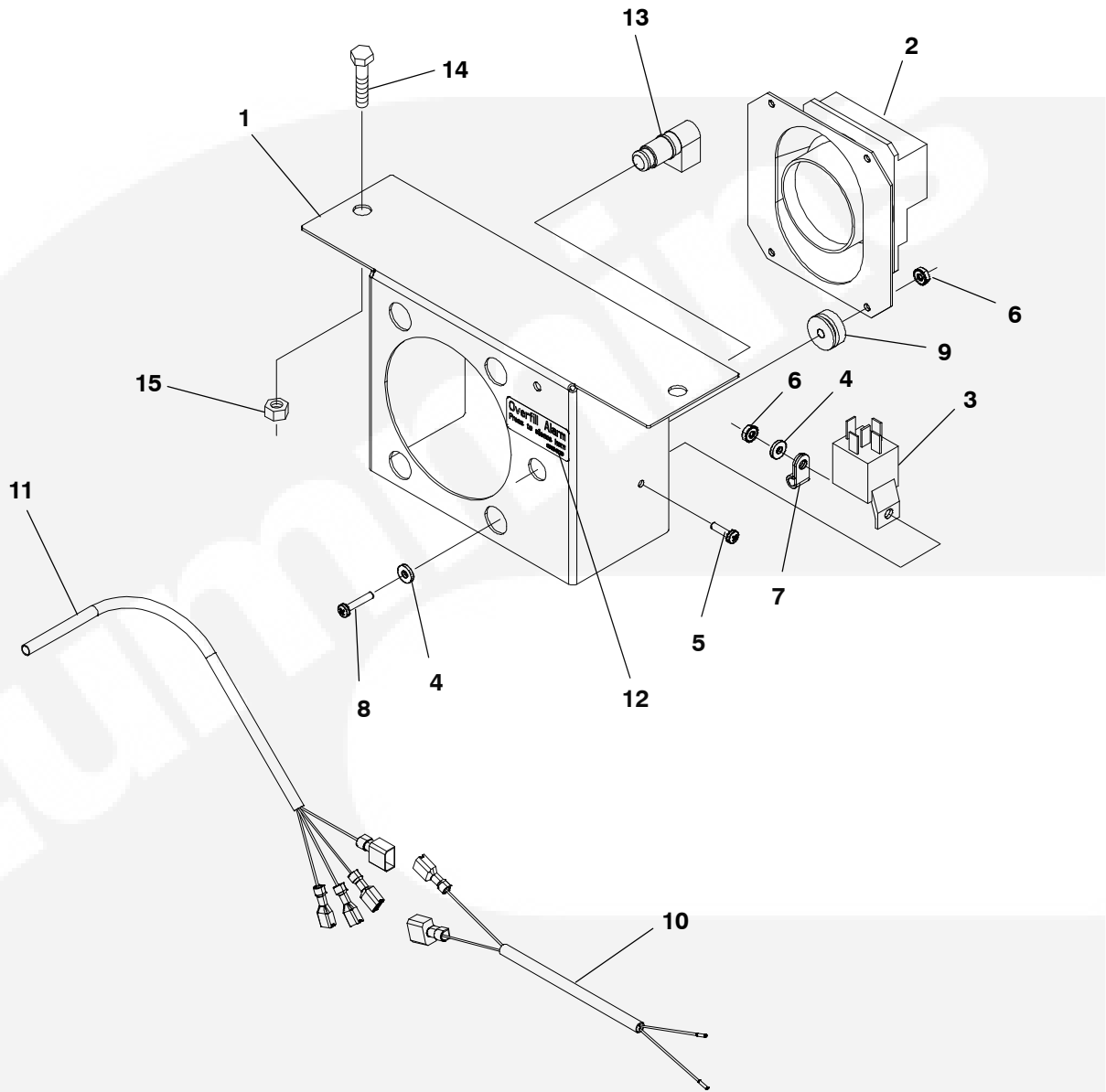


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Receptacle Assy
	330-0156	1	* Box, Outlet
	323-2101	1	* Connector, Receptacle
	331-0559	2	* Connector, Liquidtight
	331-0629-01	1	* Conduit, Liquid Tight
	338-4385-01	1	* Harness, Receptacle
2	330-0157	1	Cover, Receptacle
3	330-0158	1	Cover, Outlet Box - Blank
4	870-0183	4	Nut, Hex - W/ET (#6-32)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	331-0602	6	Clamp, Conduit
6	821-6002-03	6	Screw, Hex Head (M6 x 1 x 16)
7	870-2054	3	Nut, Locking - Flange (M6 x 1)
8	098-8185	1	Label, Information
9	812-0068	4	Screw, Hex (#6-32 x 1.0)

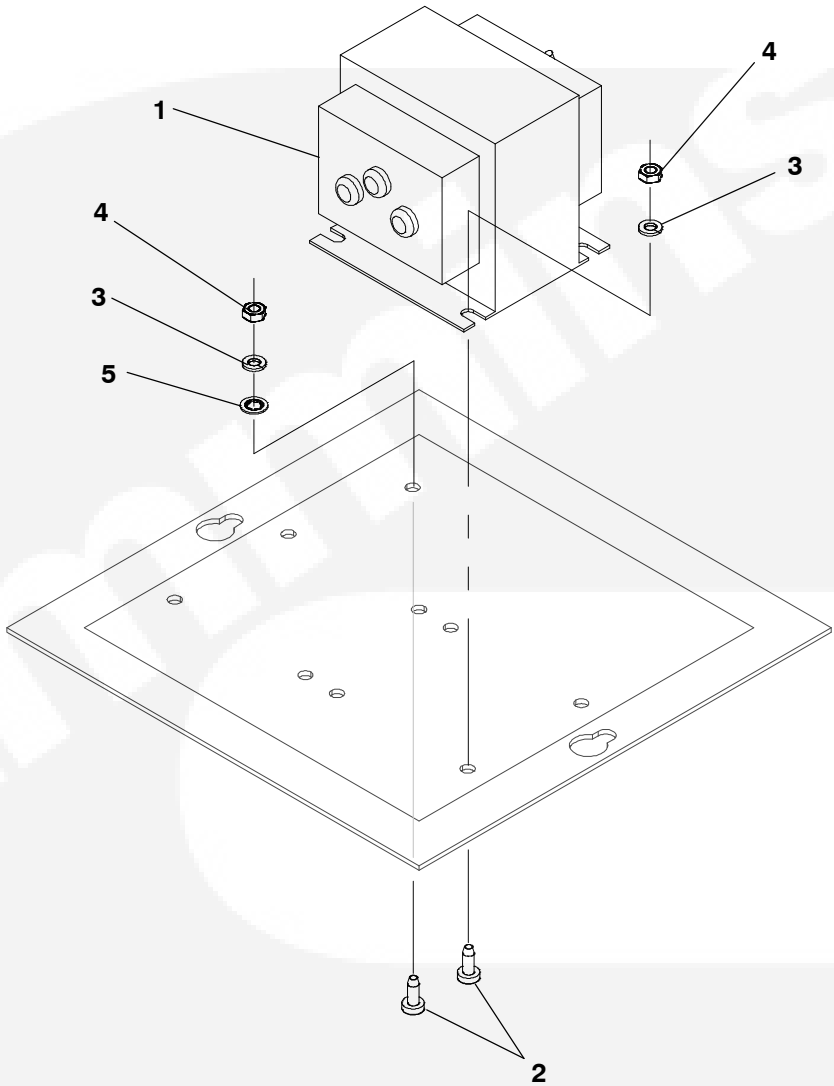
* - Included in Receptacle Assy

Overfill Alarm



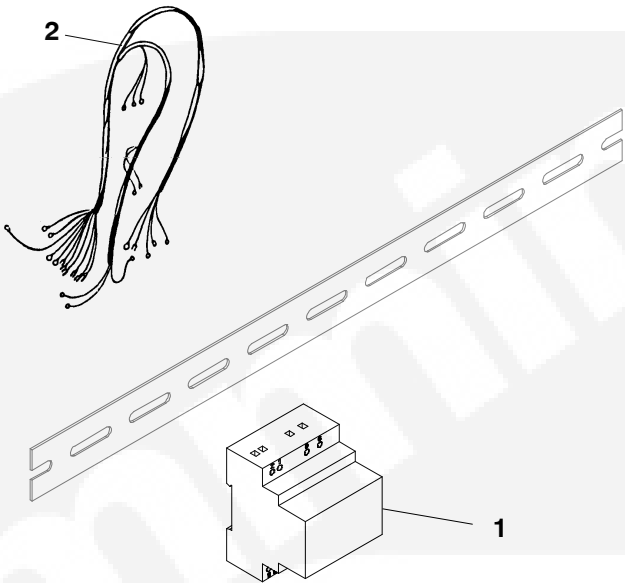
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0683	1	Alarm – Assembly – 24VDC (Includes all the Following Except Two Mounting Screws)	7	518-0340	1	Clamp, Cable
1	319-5056-02	1	Box, Control	8	815-0651	4	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .75)
2	333-0682	1	Horn, Alarm	9	508-1195	4	Grommet
3	307-2817-02	1	Relay	10	338-4360-01	1	Harness, Alarm
4	526-0399-05	9	Washer, Flat	11	338-4360-02	1	Harness, Alarm
5	815-0937	1	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .50)	12	098-8120	1	Label, Information
6	870-0183	5	Nut, Hex – W/ET	13	308-0973	1	Switch, Pushbutton
				14	821-6003-03	2	Screw, Hex Head – Mounting (M6 x 1 x 25)
				15	870-2055	2	Nut, Hex (M8)

24VAC Transformer



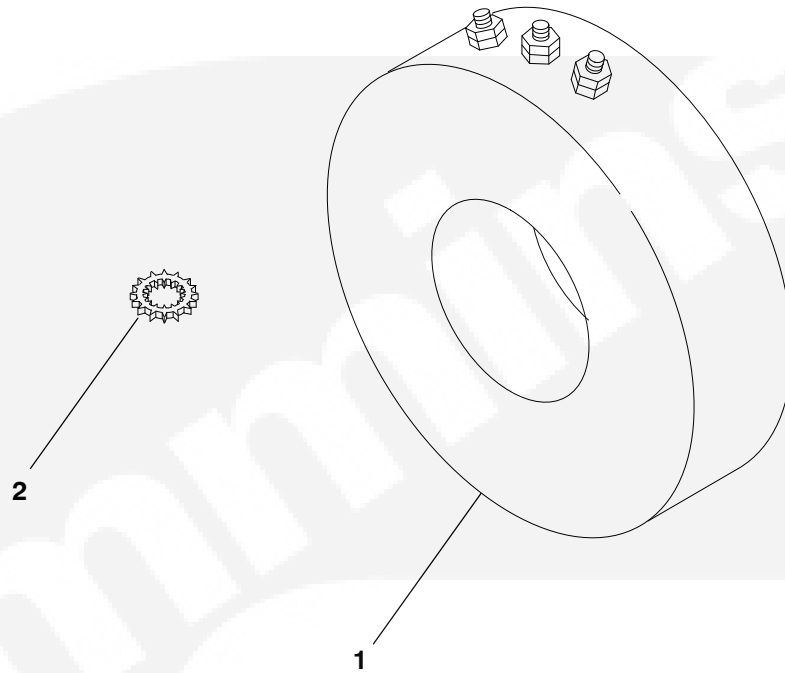
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-1613	2	Transformer, Control	3	850-2003	5	Washer, Lock – Split (M3)
2	815-0959-03	5	Screw, Cross Recessed – Pan Head – W/ET (M3 x 0.5 x 8)	4	860-2053	5	Nut, Hex (M3 x 0.5)
				5	854-0006	1	Washer, Lock – W/EIT (#6)

Ground Fault Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay, Ground Fault				
2	338-4348	1	Harness, Ground Fault				

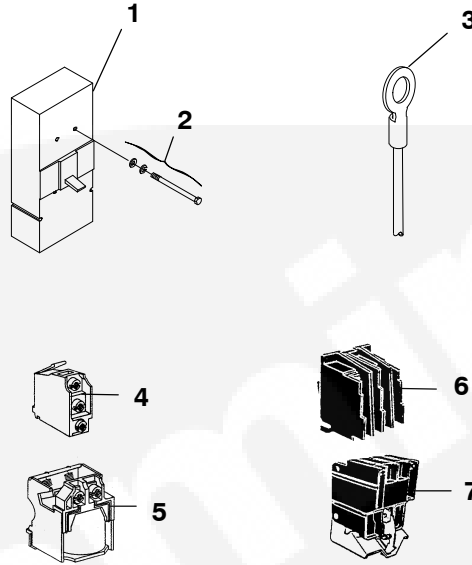
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2	856-0008	2	Washer, Lock – W/EIT
	302-2057-21	4	Ratio 789/1 or 1578/1				
	302-2057-26	4	Ratio 1070/1 or 2140/1				
	302-2057-29	4	Ratio 1262/1 or 2524/1				
	302-2057-32	4	Ratio 1519/1 or 3038/1				
	302-2057-34	4	Ratio 1893/1 or 3786/1				



Circuit Breaker and Disconnect Switch Spec C-D

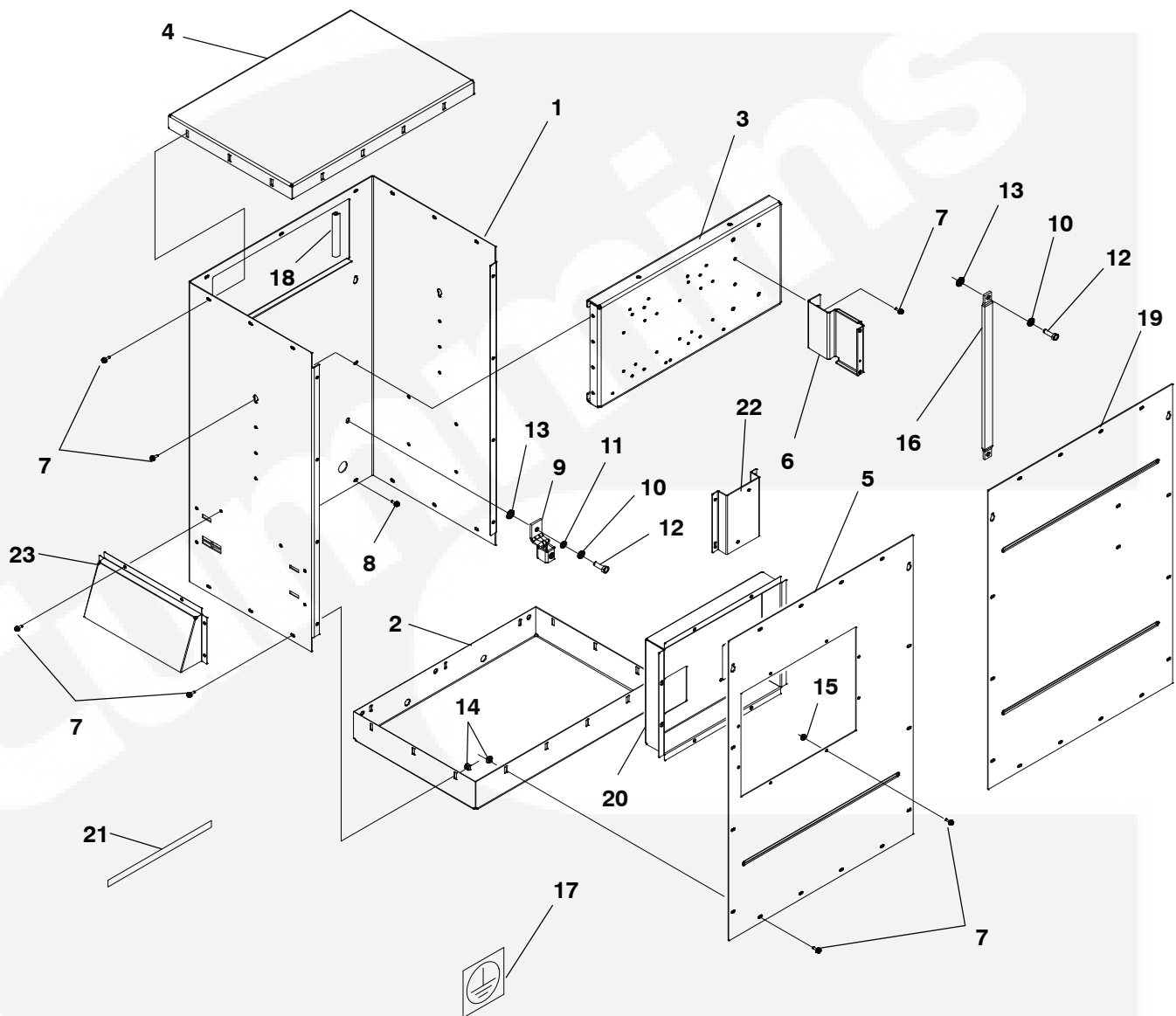


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.	2			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)
			Circuit Breakers				
			3 Pole (UL, IEC)				
	320-1959-03	1	200 Amp		320-1986-08	1	Used With 320-1959-XX Circuit Breaker Switches
	320-1959-02	1	225 Amp		320-1986-07	1	Used With 320-1960-XX Circuit Breakers and 320-1990-XX Disconnect Switches
	320-1959-01	1	250 Amp				
	320-1960-06	1	300 Amp		320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switches
	320-1960-05	1	350 Amp				
	320-1960-04	1	400 Amp				
	320-1960-03	1	450 Amp				
	320-1960-02	1	500 Amp				
	320-1960-01	1	600 Amp				
	320-1964-05	1	700 Amp				
	320-1964-04	1	800 Amp	3			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)
	320-1964-03	1	900 Amp		226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End
	320-1964-02	1	1000 Amp		226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End
	320-1964-01	1	1200 Amp				
			4 Pole (IEC)				Accessories, Circuit Breaker:
	320-1960-08	1	500 Amp				The following are used on 320-1959-XX and 320-1960-XX Circuit Breakers
	320-1960-07	1	630 Amp				
	320-1964-08	1	800 Amp				
	320-1964-07	1	1000 Amp				
	320-1964-06	1	1250 Amp				
			Disconnect Switches				
			3 Pole (UL, IEC)				
	320-1990-01	1	600 Amp	4	320-1981-01	2	Switch – Used as a Trip Alarm or Auxiliary Contact
	320-1992-02	1	800 Amp	5	320-1981-03	1	24 Volt Shunt Trip
	320-1992-01	1	1200 Amp				Accessories, Circuit Breaker:
							The following are used on 320-1964-XX Circuit Breakers
				6	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
				7	320-1977-03	1	24 Volt Shunt Trip

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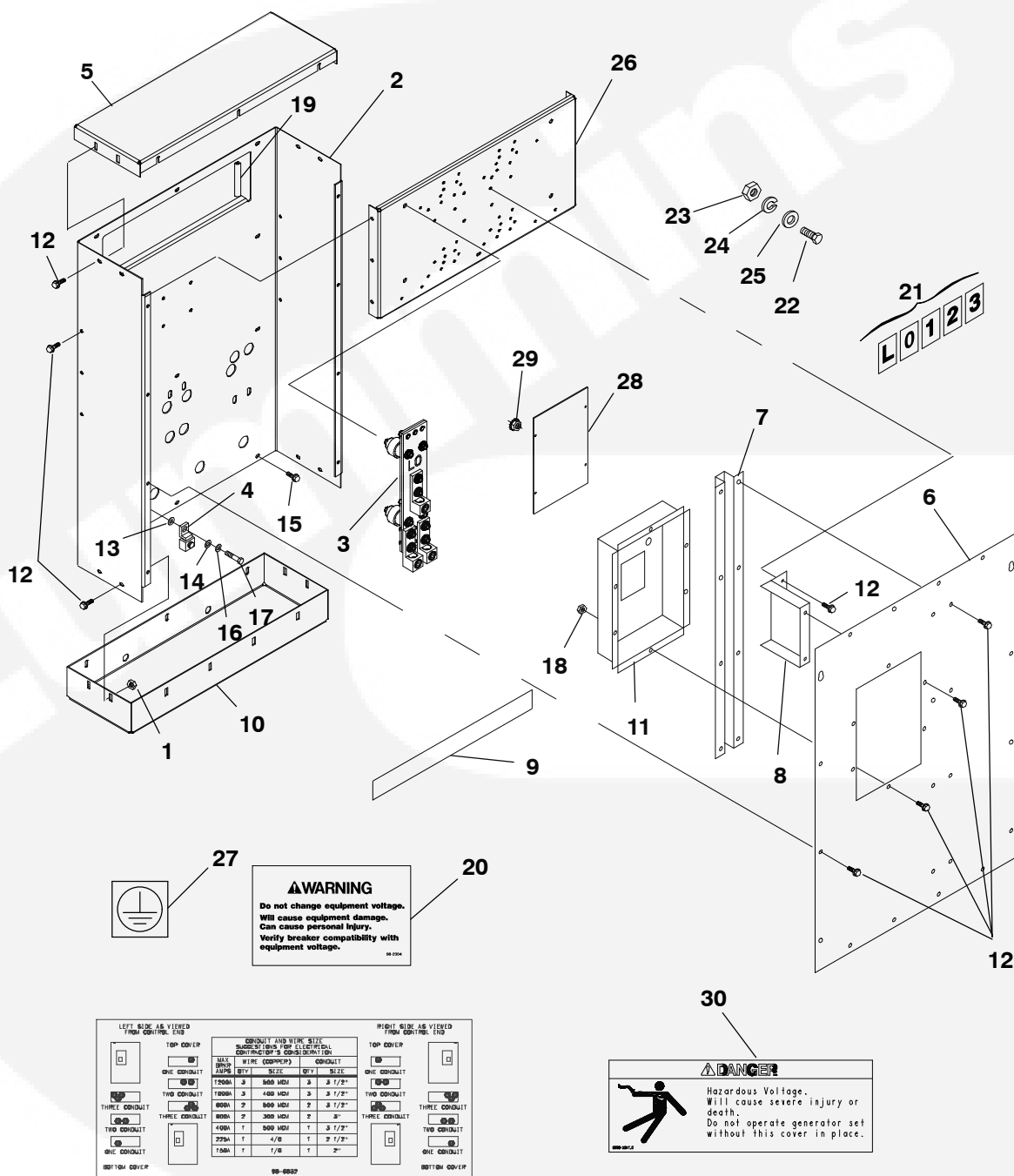
**Circuit Breaker Box
(With F200 – F205 Enclosure)
Spec C-D**



Circuit Breaker Box
(With F200 – F205 Enclosure)
Spec C-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4981-02	1	Box, Circuit Breaker	19	319-5157-02	1	Cover, Circuit Breaker –
2	319-4974-02	1	Cover, Box				Without Breakers
3	319-4955-02	1	Bracket, Circuit Breaker –	20			Cup, Circuit Breaker
			Mounting		319-4962-02	1	CK – 84mm x 112mm
4	319-4983-02	1	Cover, Circuit Breaker				Opening
5	319-4963-02	1	Cover, Circuit Breaker		319-4964-02	1	NSF – 31mm x 77mm
6	319-4979-02	1	Bracket, Circuit Breaker				Opening
7			Screw, Hex Head (M6 x 1 x 16)		319-4965-02	1	NSJ – 64mm x 116mm
	821-6002-03	60	With Breakers				Opening
	821-6002-03	54	Without Breakers		319-4967-02	1	CK and NSJ – 84mm x
8	821-2034	2	Screw, Self-Locking – Flange				112mm Opening
			Head (M6 x 1 x 20)		319-4968-02	1	CK and NSF – 84mm x
9	332-2001	1	Lug, Solderless				112mm Opening
10	526-0399-62	2	Washer, Flat (M10)		319-4969-02	1	NSJ and NSF – 64mm x
11	850-0114-55	1	Washer, Lock – Split (M10)				116mm Opening
12	800-3017-39	2	Screw, Cap – Hex Head (M10 x	21	091-0002	1	Strip, Copper (Used for
			1.5 x 35)				wrapping end of leads before
13	856-0010	2	Washer, Lock – W/EIT (3/8)				securing to circuit breakers
14	870-0504	20	Nut, Captive – Floating				and disconnect switches)
15	870-2054	6	Nut, Locking – Flange (M6 x 1)				(Quantity Used As Required)
16	337-3538-01	1	Strap, Ground	22	319-4980-02	1	Bracket, Circuit Breaker – Riser
17	098-6537	1	Label, Ground				– NSF
18	508-1092	–	Edging – Bulk (Order by the	23	319-5365-02	1	Duct, Inlet
			Foot – 3 Feet Required)				

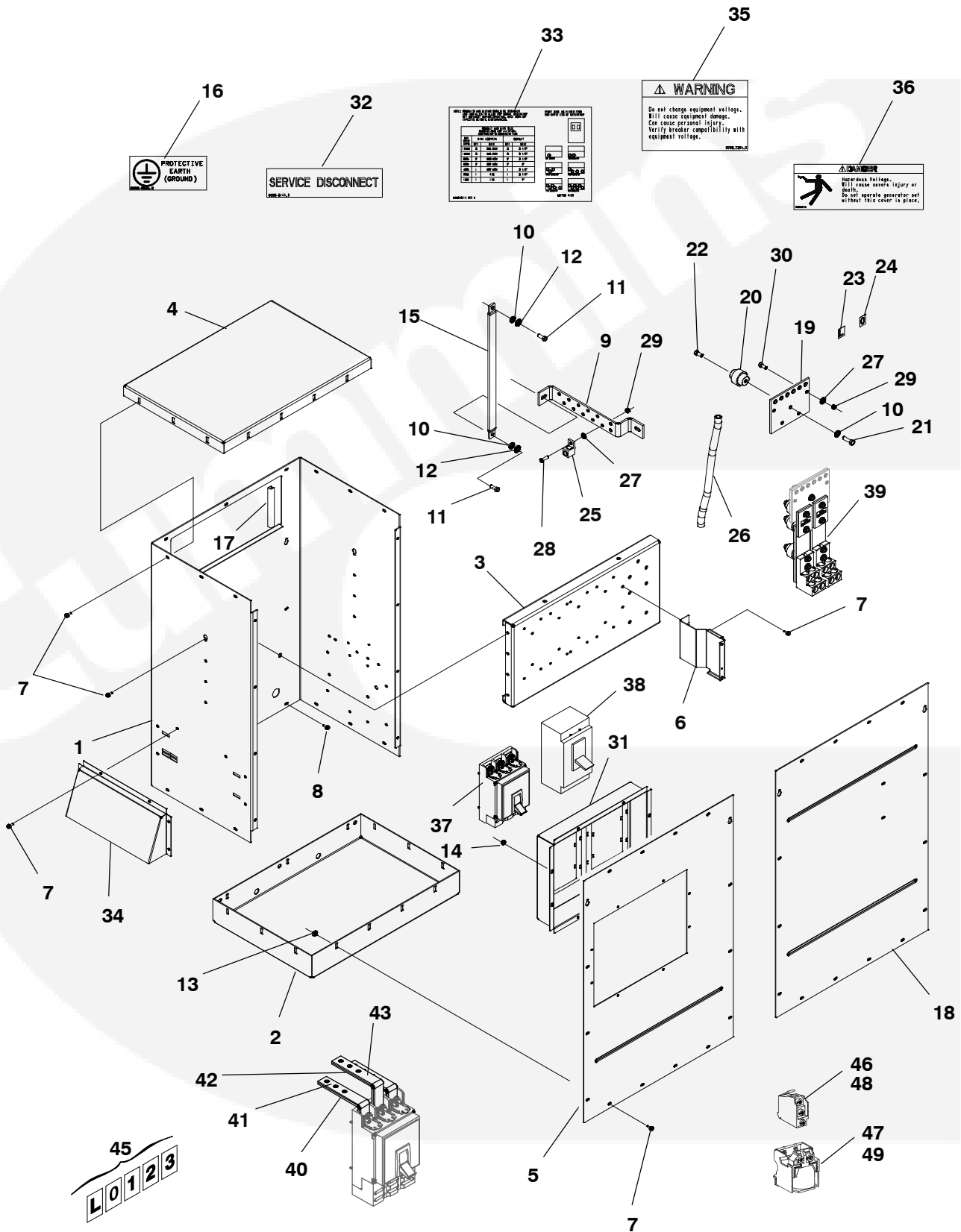
**Circuit Breaker Box
(Without Enclosure or With F184 Enclosure)
Spec C-D**



Circuit Breaker Box
(Without Enclosure or With F184 Enclosure)
Spec C-D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	17	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
2	319-3169	1	Box, Circuit Breaker	18	870-2054	4	Nut, Hex – Flange (M6)
3		1	Bar, Bus – Neutral (See Separate Page for Components)	19	508-1092	–	Edging – Bulk (Order by the Foot – 3 Feet Required)
4	332-2001	1	Lug, Solderless	20	098-2304	1	Label, Warning
5	319-1915	1	Cover, Circuit Breaker Box	21			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
6	319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control		098-5854-06	1	Marked “L”
	319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control		098-5854-07	1	Marked “1”
					098-5854-08	1	Marked “2”
					098-5854-09	1	Marked “3”
7	319-3284	1	Brace, Access Door		098-5854-10	1	Marked “0”
8	319-3333	1	Brace, Cover				The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.
9	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)	22	800-2116	A/R	Screw, Cap – Hex Head (M12 x 50mm)
10	319-3183	1	Cover, Circuit Breaker Box	23	860-2010	A/R	Nut, Hex (M12)
11			Cup	24	850-2012	A/R	Washer, Lock – Spring (M12)
	319-2431-27	1	1-7/8” x 3-1/32” Opening	25	526-2140	A/R	Washer, Flat (M12)
	319-2431-31	1	2-1/2” x 4-9/16” Opening	26	319-5491-02	1	Bracket, Circuit Breaker Mounting
	319-2431-30	1	3-5/16” x 4-3/8” Opening	27	098-6537	1	Label, Ground
	319-2431-31	1	2-1/2” x 4-9/16” Opening	28	877-0364-02	1	Sheet, Insulation – Fiberglass (P-Frame)
	319-2431-37	1	7.17” x 8.00” Opening	29	870-0131	4	Nut, Hex – W/ET (#10-32) (P-Frame)
12	821-6002-03	53	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	30	098-5347	1	Label, Danger
13	856-0010	1	Washer – W/ET				
14	526-2120	1	Washer, Flat (M10)				
15	821-2034	2	Screw, Lock (M6 x 1.0 x 20)				
16	850-2010	1	Washer, Lock – Spring				

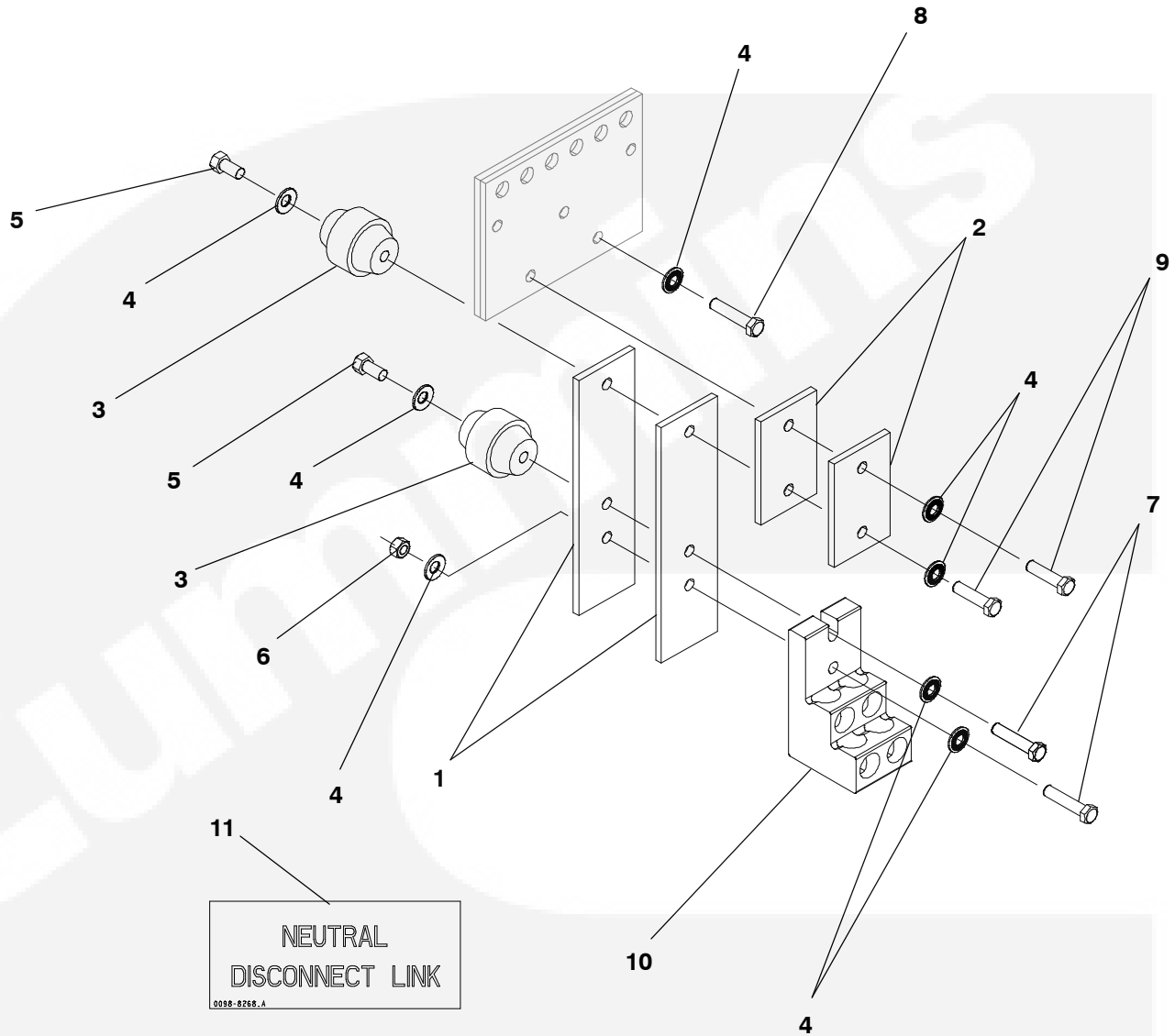
Circuit Breaker Box Begin Spec E



Circuit Breaker Box Begin Spec E

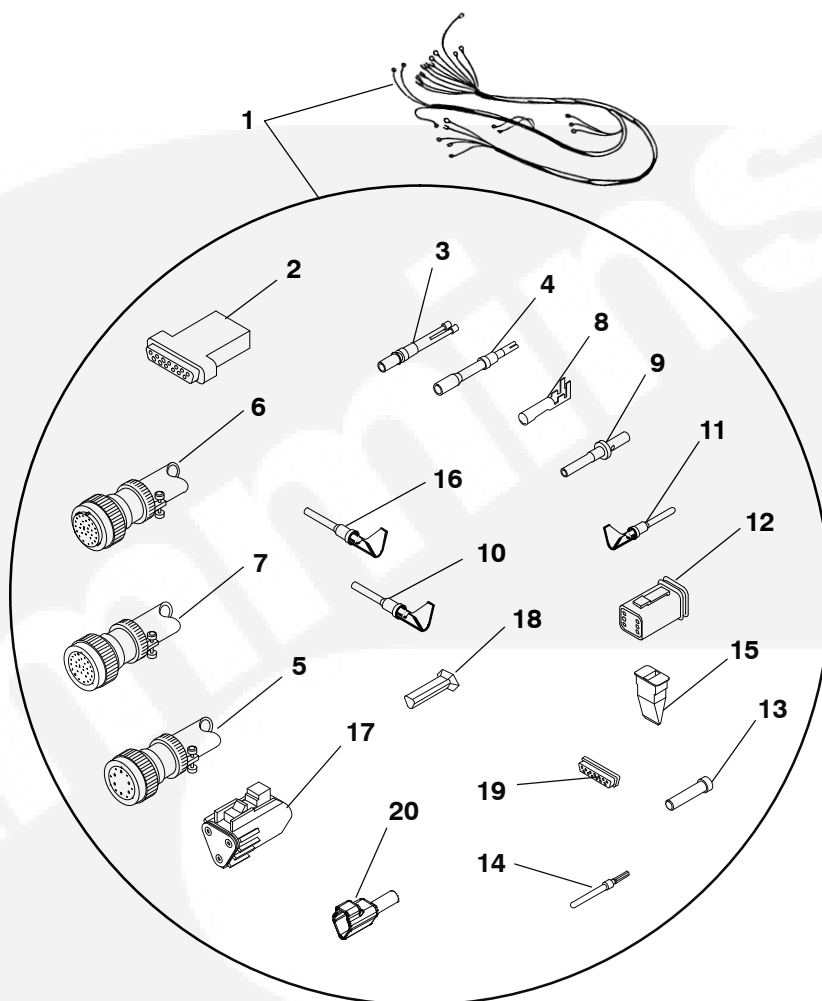
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4981-02	1	Box, Circuit Breaker	34	319-5365-02	1	Duct, Inlet
2	319-4974-02	1	Cover, Box	35			Label, Warning
3	319-5492-02	1	Bracket, Circuit Breaker – Mounting		098-2304	2	English
4	319-4983-02	1	Cover, Circuit Breaker		098-2304-01	2	French
5	319-4963-02	1	Cover, Circuit Breaker (With Breakers)	36	098-5347	1	Label, Danger
6	319-5434-02	1	Bracket, Circuit Breaker		098-5347	1	English
7			Screw, Hex Head (M6 x 1 x 16)		098-5347-02	1	French
	821-6002-03	60	With Breakers	37			Breaker, Circuit – P-Frame
	821-6002-03	54	Without Breakers		320-2182-01	1	800 Amp (100% Rated – With Enclosure)
8	821-2034	3	Screw, Self-Locking – Flange Head (M6 x 1 x 20)		320-2261-02	1	800 Amp (80% Rated – Without Enclosure)
9	337-3667	1	Bus, Bar – Neutral (.25 x 2.00)		320-2183-01	1	1200 Amp (100% Rated – With Enclosure)
10			Washer, Belleville (M10)		320-2262-02	1	1200 Amp (80% Rated – Without Enclosure)
	851-0048-02	7	With Breakers	38			Breaker, Circuit – NSJ
	851-0048-02	3	Without Breakers		320-1960-01 A/R		600 Amp
11	800-3017-39	3	Screw, Cap – Hex Head (M10 x 1.5 x 35)		320-1960-04 A/R		400 Amp
12	856-0010	2	Washer, Lock – W/EIT (3/8)	39			Bus, Bar – Neutral (Assembly – See Separate Page for Components)
13	870-0504	20	Nut, Captive – Floating	40	337-3629-01	2	Bus, Bar – Breaker (800 or 1200 Amp – 100% P-Frame)
14	870-2054	6	Nut, Locking – Flange (M6 x 1) (With Breakers)	41	337-3629-02	2	Bus, Bar – Breaker (800 or 1200 Amp – 100% P-Frame)
15	337-3538-01	1	Strap, Ground	42	337-3629-03	1	Bus, Bar – Breaker (800 or 1200 Amp – 100% P-Frame)
16	098-6635	1	Label, Ground	43	337-3629-04	1	Bus, Bar – Breaker (800 or 1200 Amp – 100% P-Frame)
17	508-1092	–	Edging – Bulk (Order by the Foot – 3 Feet Required)	44	091-0002	–	Strip, Copper (Not Shown)
18	319-5157-02	1	Cover, Circuit Breaker (Without Breakers)	45			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
19	337-3658	2	Bus, Bar – Neutral		098-5854-06	1	Marked “L”
20	332-2744-07	3	Standoff, Insulator		098-5854-07	1	Marked “1”
21	800-0050	1	Screw, Cap – Hex Head (3/8–16 x 1)		098-5854-08	1	Marked “2”
22	800-0048	3	Screw, Cap – Hex Head (3/8–16 x .75)		098-5854-09	1	Marked “3”
23	098-5854-06	1	Label, Bus Marking		098-5854-10	1	Marked “0”
24	098-5854-10	1	Label, Bus Marking				Accessories, Circuit Breaker:
25	332-3039	6	Lug, Solderless				Switch – Used as a Trip Alarm or Auxiliary Contact – P-Frame
26	226-4927-01	1	Lead	46	320-2196-01	2	24 Volt Shunt Trip – P-Frame
27	851-0048-01	7	Washer, Belleville (M8)	47	320-2196-02	1	Switch – Used as a Trip Alarm or Auxiliary Contact – NSJ
28	800-0028	6	Screw, Hex Head – Cap (5/16–18 x 1)	48	320-1981-01	2	24 Volt Shunt Trip – NSJ
29	862-0015	7	Nut, Hex – Heavy (5/16–18)	49	320-1981-03	1	
30	800-0030	1	Screw, Cap – Hex Head (5/16–18 x 1.25)				
31	319-5494-02	1	Cup, Switch				
32	098-8144	2	Label, Information				
33	098-8114	1	Label, Information				

Bus Bar – Neutral Begin Spec E



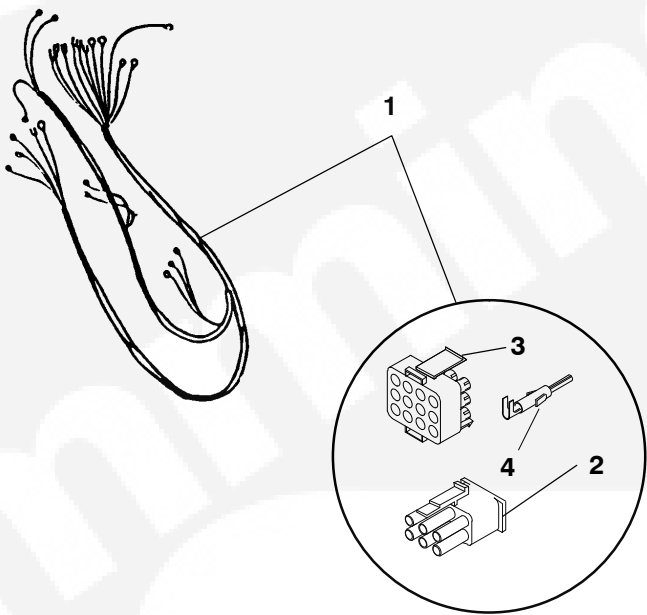
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Bus, Bar – Neutral (Complete) (Includes the Following Parts)	7	800-0053	2	Screw, Cap – Hex Head (3/8-16 x 1.75)
1	337-3663	2	Bus, Bar – Neutral	8	800-0050	1	Screw, Cap – Hex Head (3/8-16 x 1.00)
2	337-3664	2	Bus, Bar – Neutral	9	800-0052	2	Screw, Cap – Hex Head (3/8-16 x 1.50)
3	332-2744-07	2	Standoff, Insulator	10	332-1557	1	Lug
4	851-0048-02	8	Washer, Belleville (M10)	11	098-8268	1	Label, Information
5	800-0048	2	Screw, Cap – Hex Head (3/8-16 x .75)				
6	862-0003	1	Nut, Hex – Heavy (3/8-16)				

Wiring Harness Engine Extension



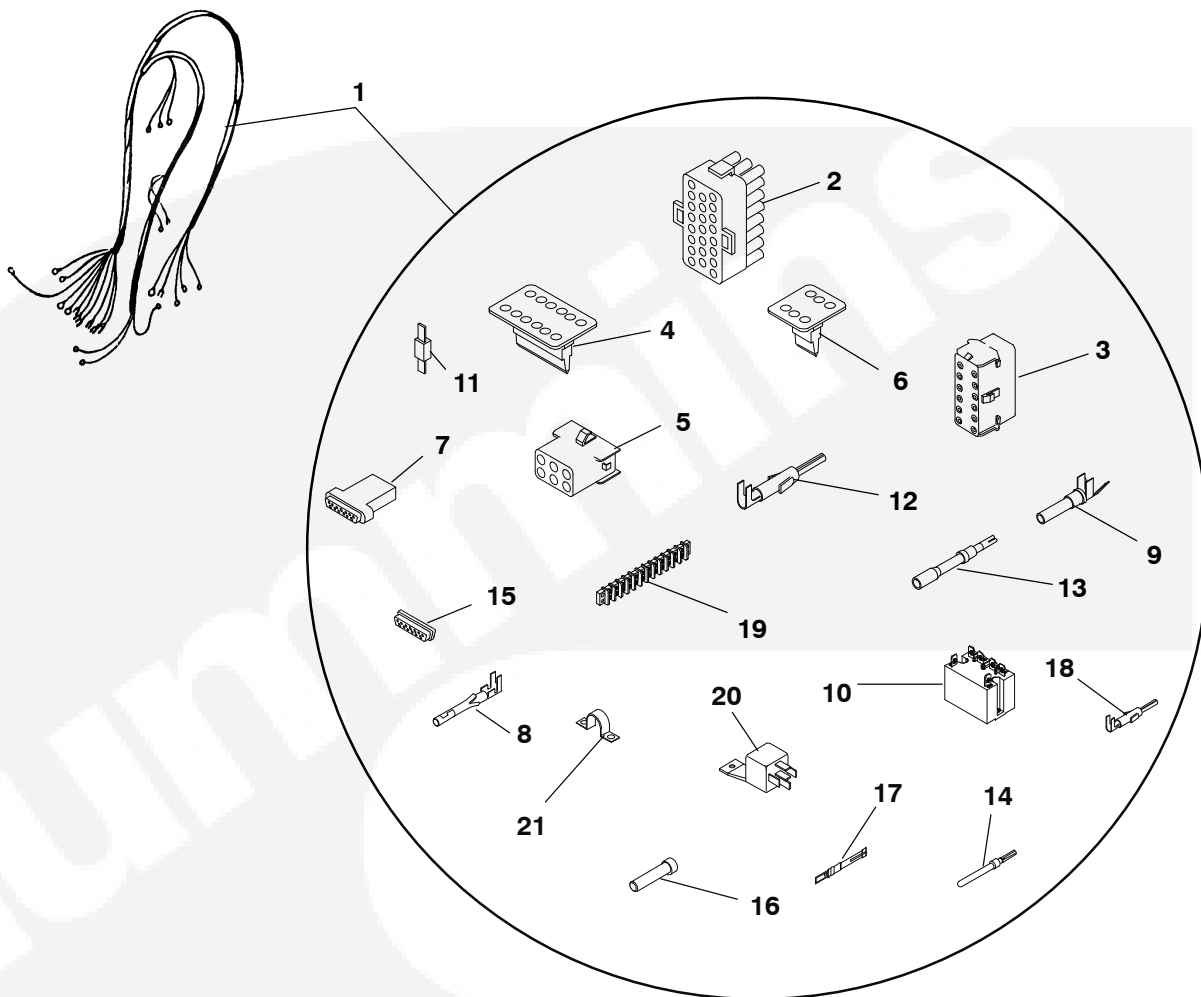
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4325	1	Harness, Wiring – Engine Extension (Includes Parts Listed Below)	8	323-1752	25	Socket, Contact
2			Connector, Contact	9	323-1838	5	Pin, Contact
	323-1841	1	9 Place (Includes Screws and Locknuts)	10	323-1491	48	Pin, Contact
	323-1837	2	50 Place (Includes Backshell and Hardware)	11	323-1834	21	Pin, Contact
3	323-1835-01	46	Socket, Contact (#20)	12	323-1625	1	Housing, Connector (6 Place)
4	323-1835-02	30	Socket, Contact (#18)	13	323-1591	1	Plug, Seal
5	323-1833	1	Plug, Connector (19 Place)	14	323-1847-01	9	Pin, Connector
6	323-1832	1	Plug, Connector (33 Place) (With Center Collar)	15	323-1626	1	Wedge (6 Place)
7	323-1831	1	Plug, Connector (33 Place) (Without Center Collar)	16	323-1492	35	Socket, Contact
				17	323-1493	1	Plug, Connector (3 Place)
				18	323-1503	1	Wedge (3 Place)
				19	323-1843	2	Grommet
				20	323-1888	1	Connector, Boot

Wiring Harness
AC



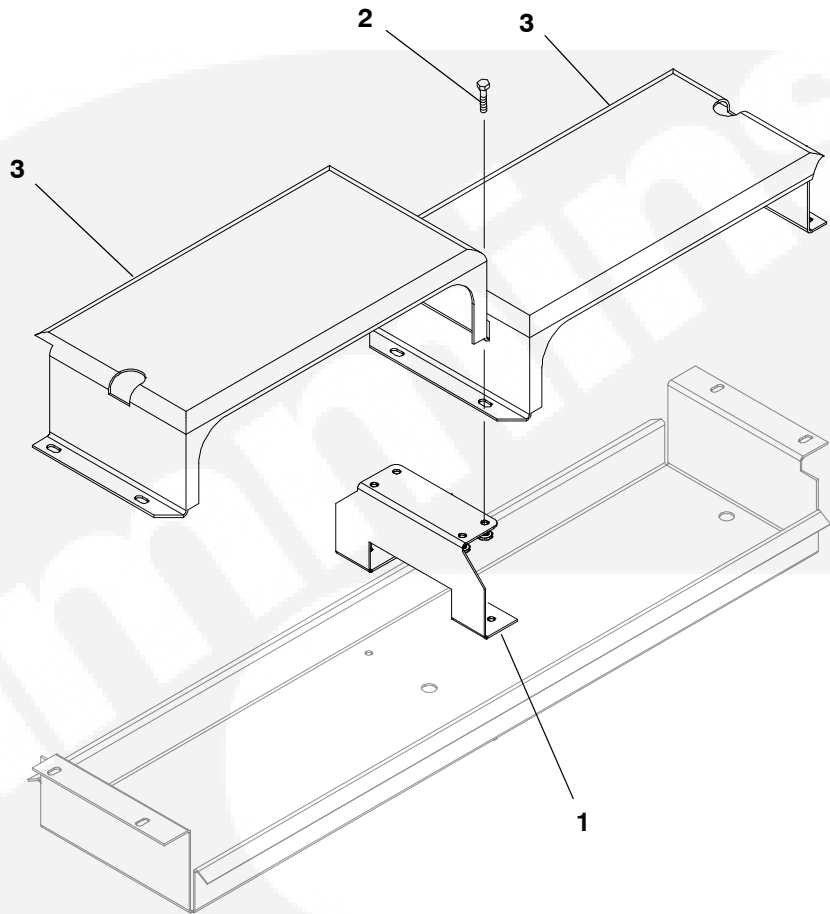
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4317		Harness, Wiring – AC (Includes Parts Listed Below)	3	323-1644-03	1	Housing, Connector (12 Place)
2	323-1643-01	1	Plug, Connector (6 Place)	4	323-1648	15	Socket, Contract

Wiring Harness Control



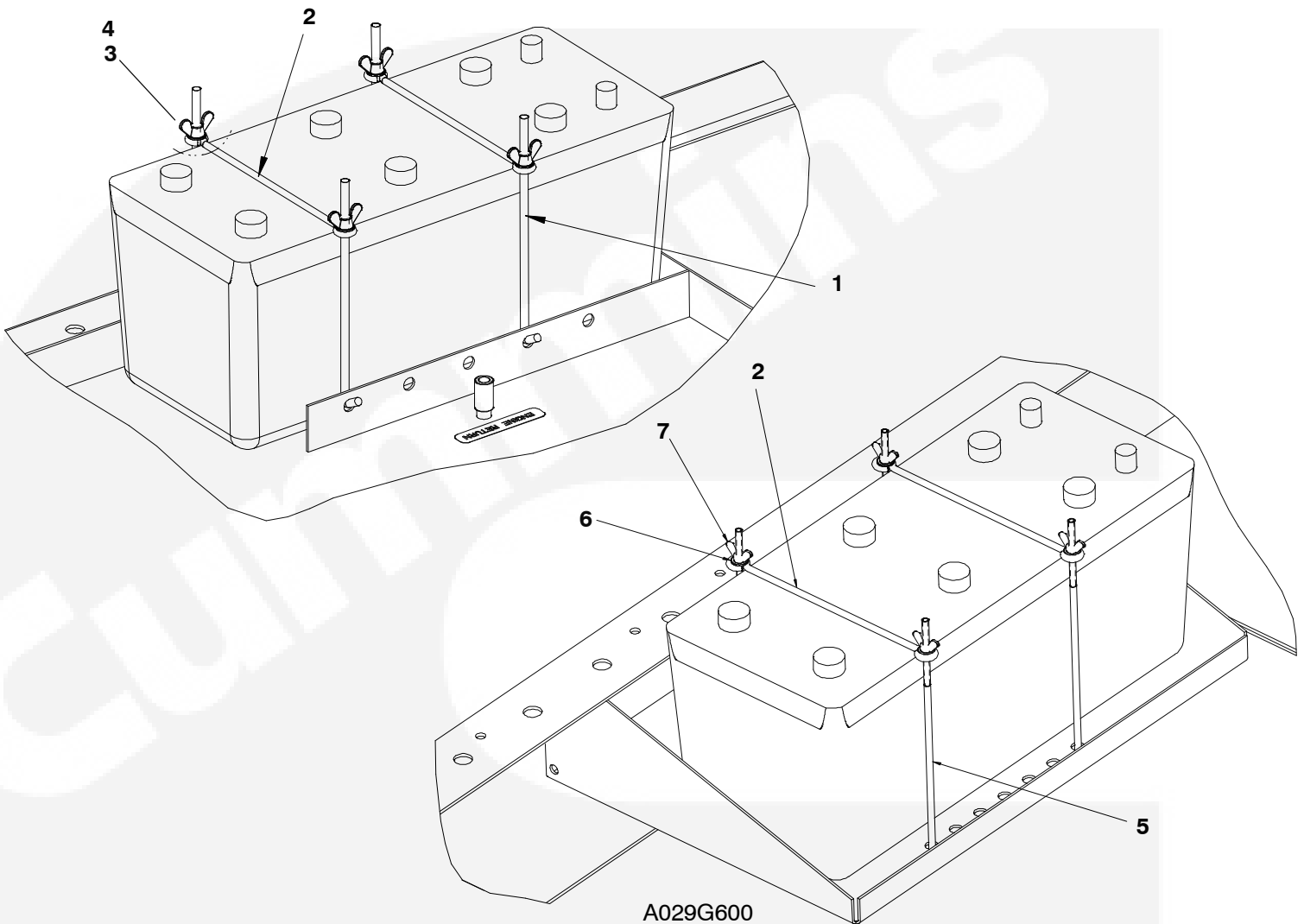
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4302	1	Harness, Control (Includes Parts Listed Below)	9	323-1492	27	Socket, Contact
2			Plug, Connector (23 Place)	10	307-2968-04	2	Relay, Power (24 Volt) (K14, K15)
	323-1605-01	2	Colored Black (23)	11	357-0030	1	Rectifier, Silicon
	323-1605-03	1	Colored Grey (31)	12	323-1199	5	Pin, Contact
	323-1605-04	1	Colored Blue (07)	13	323-1835-02	4	Socket, Contact
3	323-1582	1	Plug, Connector (12 Place)	14	323-1847-01	4	Pin, Contact
4	323-1583	1	Wedge (12 Place)	15			Grommet
5	323-1623	2	Plug, Connector (6 Place) (30, Inline D)		323-1843	1	50 Place
6	323-1624	2	Wedge (6 Place)		323-1845	1	25 Place
7			Contact, Connector	16	323-1591	2	Plug, Seal
	323-1841	1	9 Place	17	323-1835-01	54	Contact, Pin
	323-1836	1	25 Place	18	323-1491	4	Terminal, Pin
	323-1837	1	50 Place	19	332-0607	7	Block, Terminal - 12 Place
8	323-1614-01	74	Pin, Contact	20	307-2817-02	1	Relay (K20)
				21	332-1043	22	Jumper, Terminal

Battery Cover



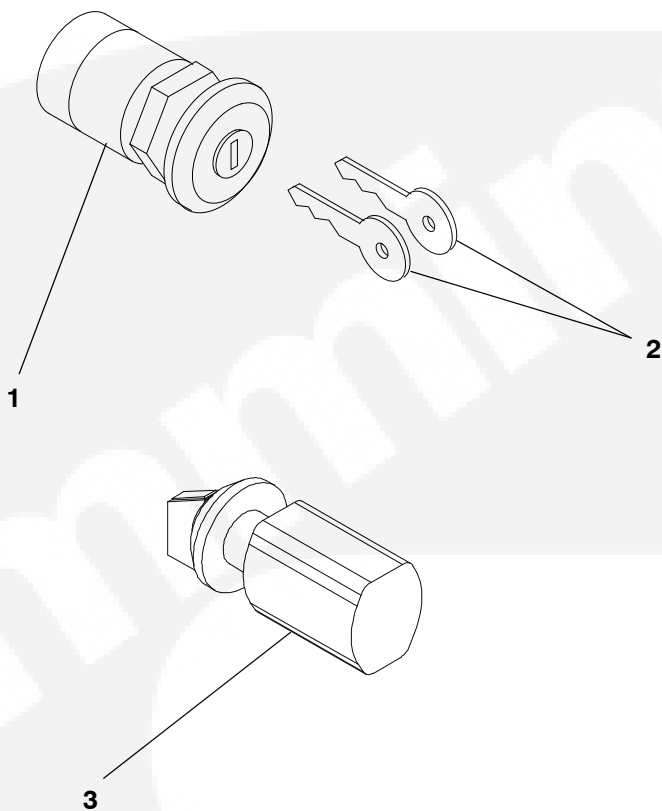
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1085-02	1	Bracket, Cover	3	416-1068-01	2	Cover, Battery Tray
2	821-6003-01	6	Screw, Hex Head (M8 x 1.25 x 16)				

Battery Installation



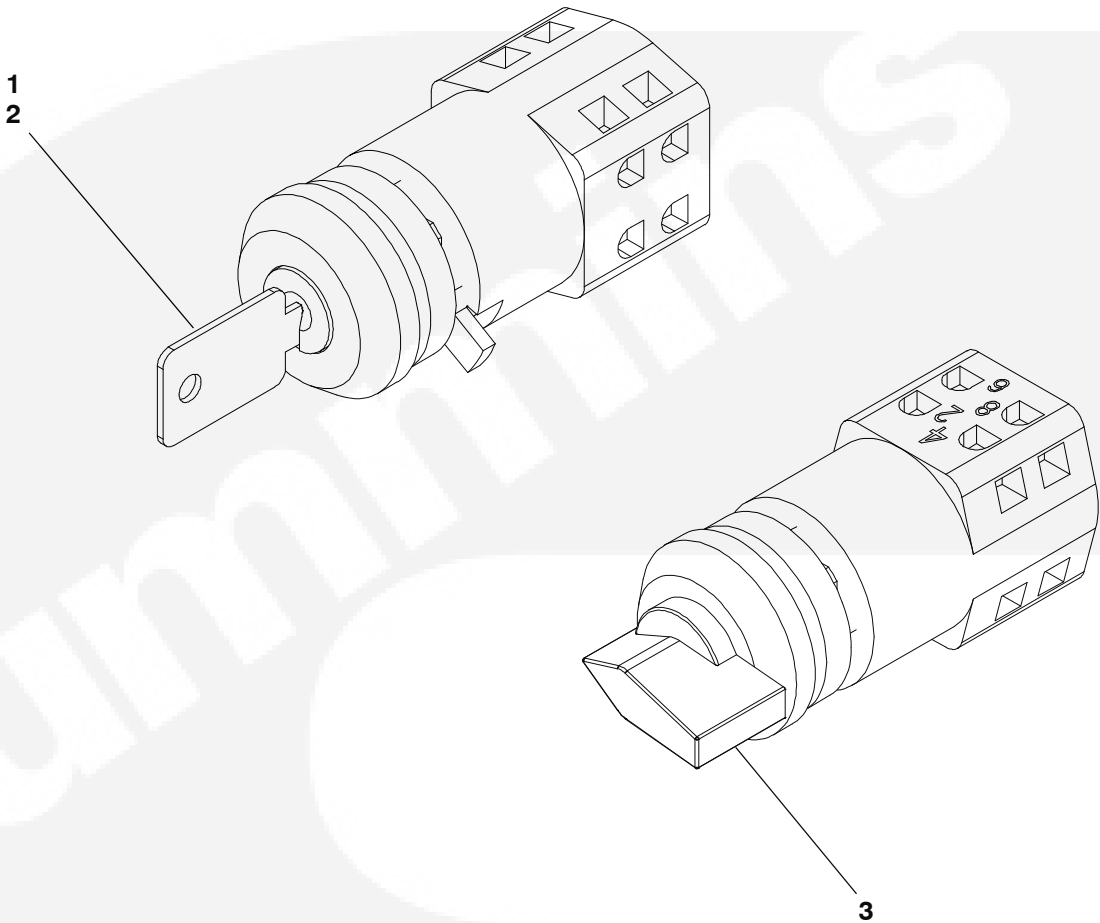
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	A029G600	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1265-02	4	Rod, Battery Retaining		5	A026F327	4	Rod, Battery Hold Down
2	A029E273	4	Rod, Battery Hold Down		6	526-0018	4	Washer, Flat
3	526-0115	4	Washer, Flat		7	865-0030	4	Nut, Wing
4	865-0031	4	Nut, Wing					

Operator Switch
Spec D



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator	3	308-0998	1	Switch, Selector
2	308-1046	2	Key				

Operator Switch
Begin Spec E



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator
2	308-1046	2	Key - Spare

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	308-1085	1	Switch, Selector



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