

Parts Manual

Generator Set

with PowerCommand[®] 2100 and 3100 Control

DFBF (Spec Y–Z)

DFCB (Spec Y–Z)

DFCC (Spec Y–Z)

DFCE (Spec H–J)

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 DFBF, DFCB, DFCC and DFCE 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 Power Generation Engine Model
DFBF	NT 855-G6
DFCB	NTA 855-G2
DFCC 50 Hertz DFCC 60 Hertz	NTA 855-G4 NTA 855-G3
DFCE 50 Hertz DFCE 60 Hertz	NTA 855-G6 NTA 855-G5

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
250DFBF/*+	250,000	#	50	12	3	24VDC
275DFBF/*+	275,000	#	60	12	3	24VDC
275DFCB/*+	275,000	#	50	12	3	24VDC
300DFCB/*+	300,000	#	60	12	3	24VDC
310DFCC/*+	310,000	#	50	12	3	24VDC
350DFCC/*+	350,000	#	60	12	3	24VDC
330DFCE/*	330,000	#	50	12	3	24VDC
400DFCE/*	400,000	#	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.

+ – Note: Specification letter "G" was not used with these models

– Broad range reconnectible



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Abbreviations

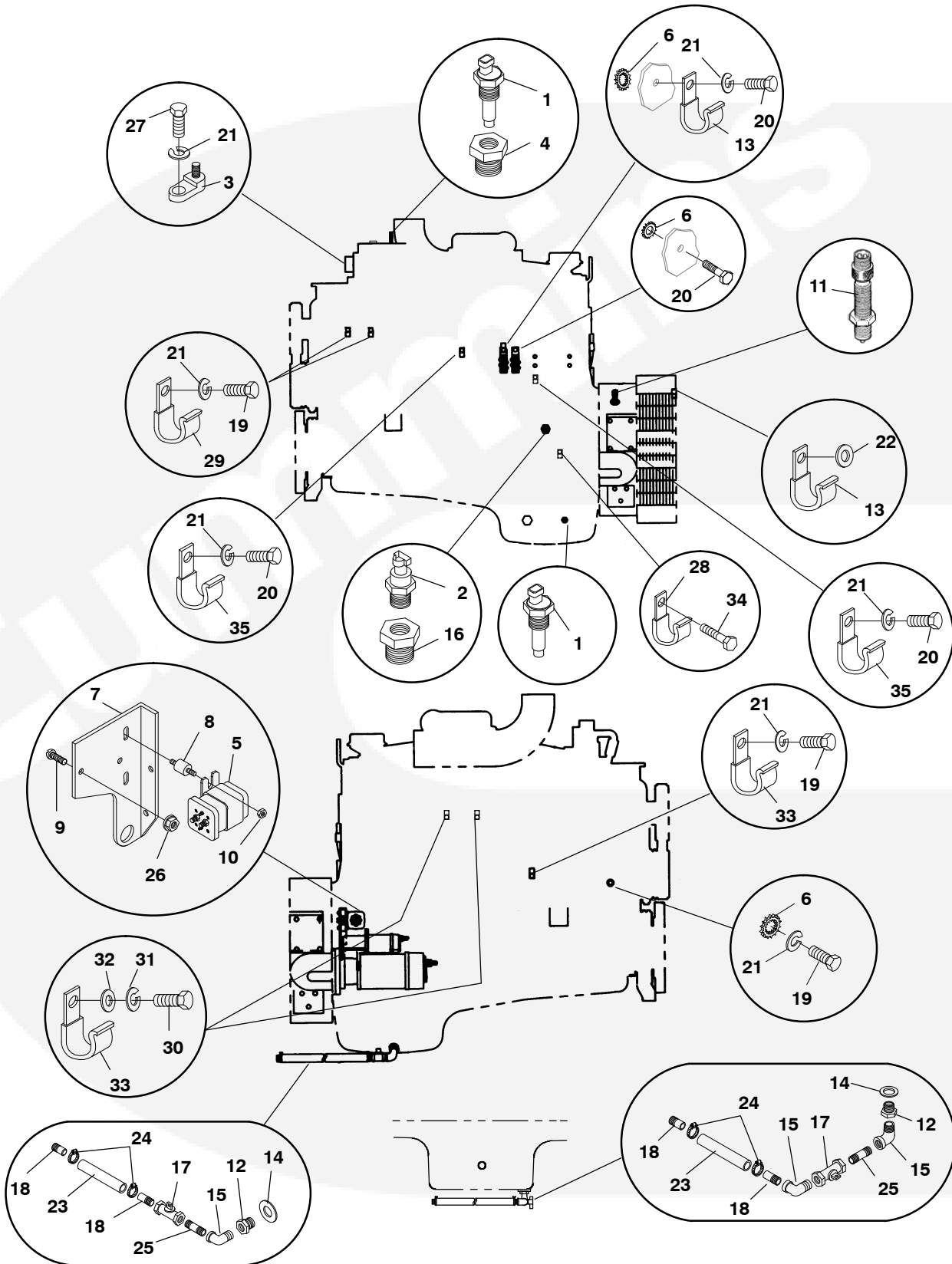
Some of the following abbreviations may be used throughout this Parts Catalog:

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 Only Memory	PT/CT	Potential Transformer/Current Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical Commission	Thk	Thick
IT	Internal Tooth	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter number)	Meter	VDC	Volts Direct Current
		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)	525-0551-02	-		12 oz. Pressurized Spray Can
	525-0305	-	12 oz. Pressurized Spray Can	525-0551-03	-		Quart Can
	525-0306	-	Quart Can	525-0551-04	-		Gallon Can
	525-0304	-	Gallon Can	518-0601	-		Sealant, Thread (6 ml Tube)
			Cummins Beige Enamel	525-0749	-		Paint, Sandstone

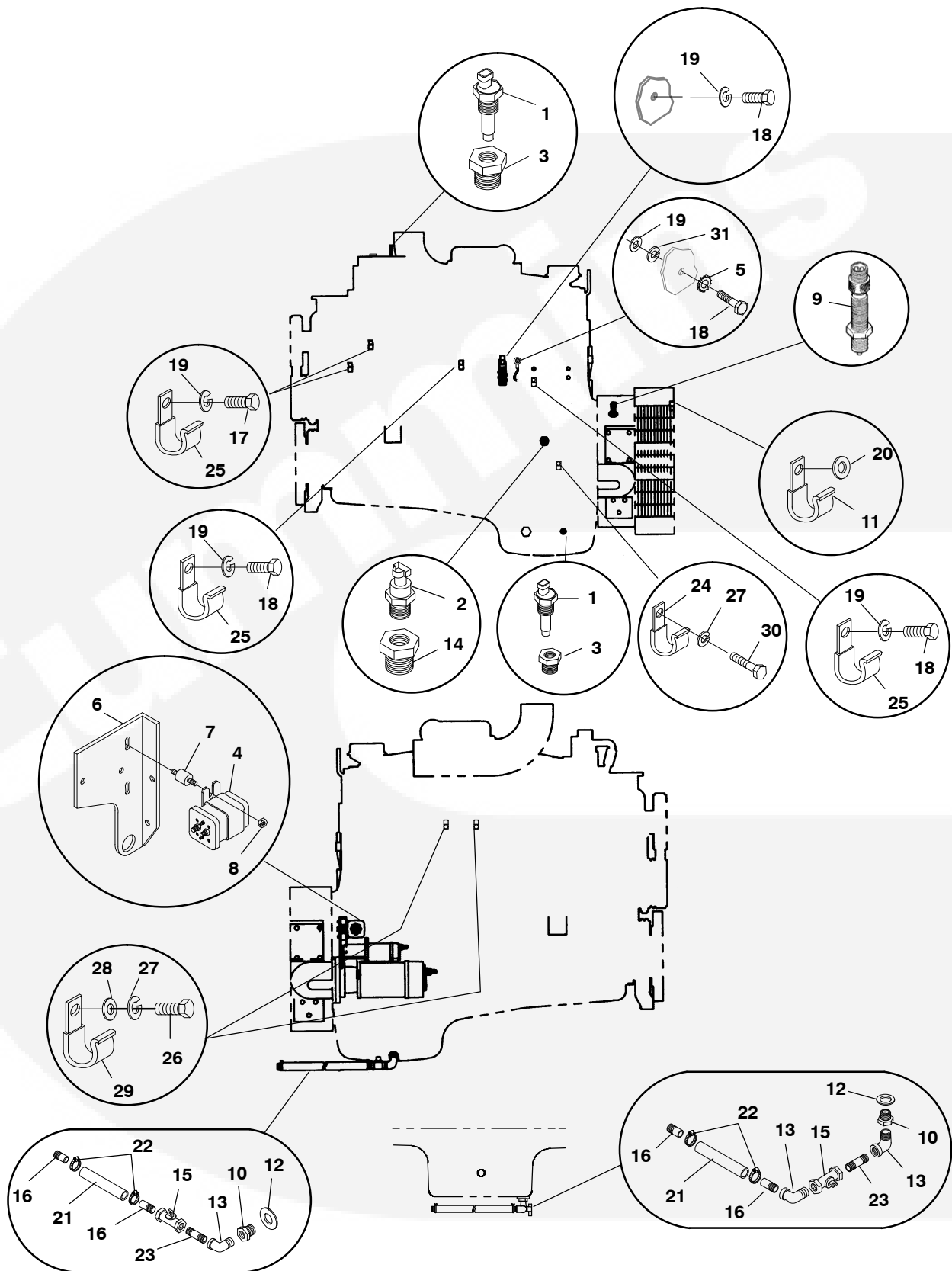
External Engine Parts Generator Sets With PCC3100



External Engine Parts Generator Sets With PCC3100

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Oil Temperature (S2 Engine Block, E4 Oil Pan)	19	800-0048	1	Screw, Cap – Hex Head (3/8-16 x 3/4")
2	A028X493	1	Sender, Oil Pressure (S1)	20	801-0048	3	Screw, Cap – Hex Head (3/8-24 x 3/4")
3	309-0269	1	Switch, Temperature – Low Engine Temperature (S4)	21	850-0050	4	Washer, Lock – Spring (3/8")
4			Bushing, Pipe – Reducer	22	526-0018	1	Washer, Flat (1/4")
	505-0019	1	DFBF (1/2" to 3/8")	23			Hose, Oil Drain – Bulk (3/4" ID) (Order By The Foot)
	505-0131	1	DFCB, DFCC, DFCE (3/4" to 3/8")		503-0098	–	DFBF, DFCB, DFCC – 3 Feet Required)
5	307-2621-02	1	Relay, Start Solenoid (K4)		503-0098	–	DFCE – 4 Feet Required
6	856-0010	3	Washer, Lock – EIT (3/8")	24	503-0189	2	Clamp, Hose
7	319-2236	1	Bracket, Mounting	25	505-0100	1	Nipple, Pipe – Close (1/2")
8	402-0610	2	Isolator, Vibration	26	870-0183	2	Nut, Lock – Hex Head – W/ET Lock Washer (#6-32) Terminal Block Mounting
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8") Terminal Block Mounting	27	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")
10	870-0212	4	Nut, Locking (1/4-20)	28	518-0548-19	1	Clamp, Hose
11	151-0411	1	Pickup, Magnetic (P1)	29	518-0548-58	3	Clamp, Hose
12	102-1335	1	Plug, Oil Drain	30	800-0092	2	Screw, Cap – Hex Head (1/2-13 x 1.5)
13	518-0548-44	1	Clamp, Hose	31	850-0060	2	Washer, Lock (1/2)
14	508-0292	1	Washer, Sealing – Copper	32	526-0219	2	Washer, Flat (1/2)
15			Elbow, Pipe – Street – 90° (1/2")	33	518-0548-59	1	Clamp, Hose
	505-0050	1	DFBF, DFCB, DFCC	34	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.0)
	505-0050	2	DFCE				
16	505-1503	1	Adapter, Pipe (1/8")				
17	504-0011	1	Valve, Shutoff (1/2")				
18	502-0827	2	Hose, Barb (1/2 x 3/4)				

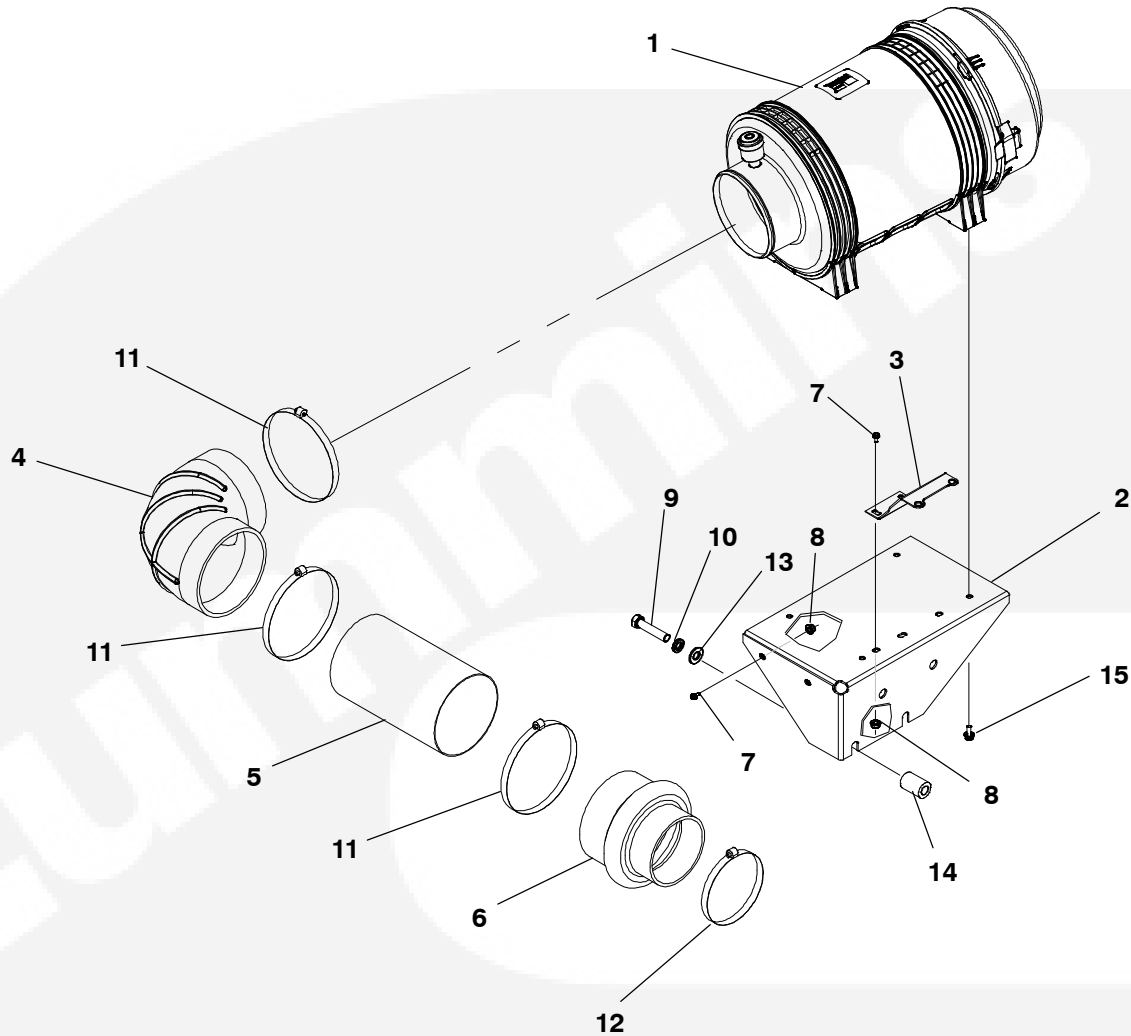
External Engine Parts Generator Sets With PCC2100



External Engine Parts Generator Sets With PCC2100

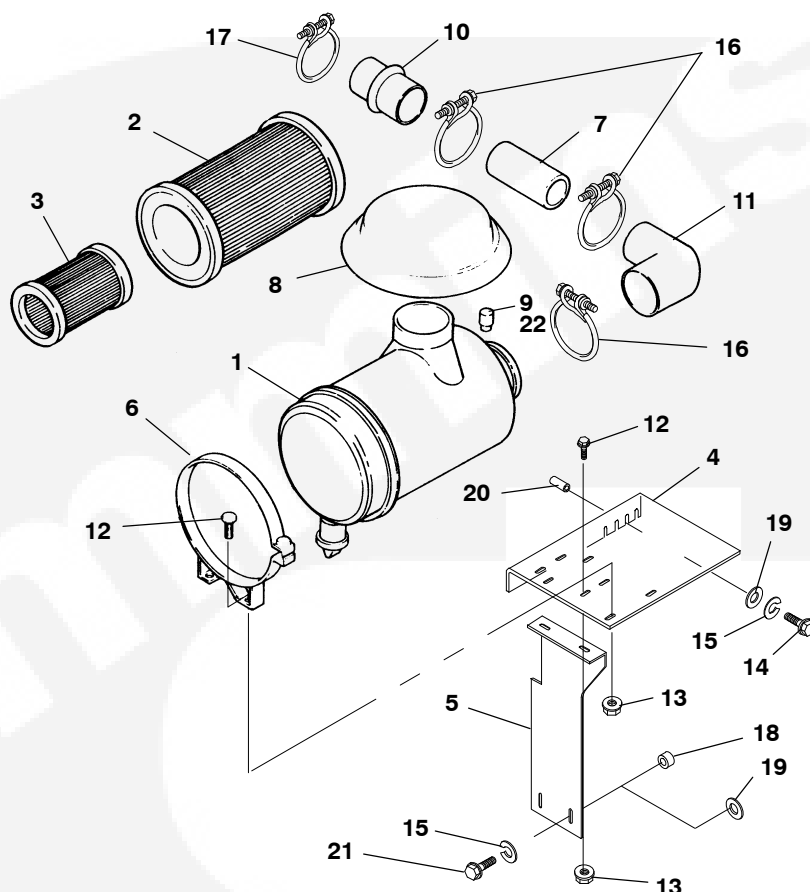
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0529-01	1	Sensor, Temperature	17	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
2	A028X493	1	Sender, Oil Pressure (S1)	18	801-0048	3	Screw, Cap – Hex Head (3/8-24 x 3/4")
3			Bushing, Pipe – Reducer	19	850-0050	6	Washer, Lock – Spring (3/8")
	505-0019	1	DFBF (1/2" to 3/8")	20	526-0018	1	Washer, Flat (1/4")
	505-0131	1	DFCB, DFCC, DFCE (3/4" to 3/8")	21	503-0098	-	Hose, Oil Drain – Bulk (3/4" ID) (Order By The Foot – 3 Feet Required)
4	307-2621-02	1	Solenoid, Pilot	22	503-0189	2	Clamp, Hose
5	856-0010	1	Washer, Lock – EIT (3/8")	23	505-0100	1	Nipple, Pipe – Close (1/2")
6	319-2236	1	Bracket, Mounting	24	518-0548-19	1	Clamp, Hose
7	402-0610	2	Isolator, Vibration	25	518-0548-35	4	Clamp, Hose
8	870-0212	4	Nut, Locking (1/4-20)	26	800-0092	2	Screw, Cap – Hex Head (1/2-13 x 1.5)
9	151-0411	1	Pickup, Magnetic (P1)	27	850-0060	3	Washer, Lock (1/2)
10	102-1335	1	Plug, Oil Drain	28	526-0219	2	Washer, Flat (1/2)
11	518-0548-44	1	Clamp, Hose	29	518-0548-20	2	Clamp, Hose
12	508-0292	1	Washer, Sealing – Copper	30	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.0)
13			Elbow, Pipe – Street – 90° (1/2")	31	526-0029	1	Washer, Flat (3/8)
	505-0050	1	DFBF, DFCB, DFCC				
	505-0050	2	DFCE				
14	505-1503	1	Adapter, Pipe (1/8")				
15	504-0011	1	Valve, Shutoff (1/2")				
16	502-0827	2	Hose, Barb (1/2 x 3/4)				

Air Cleaner Standard



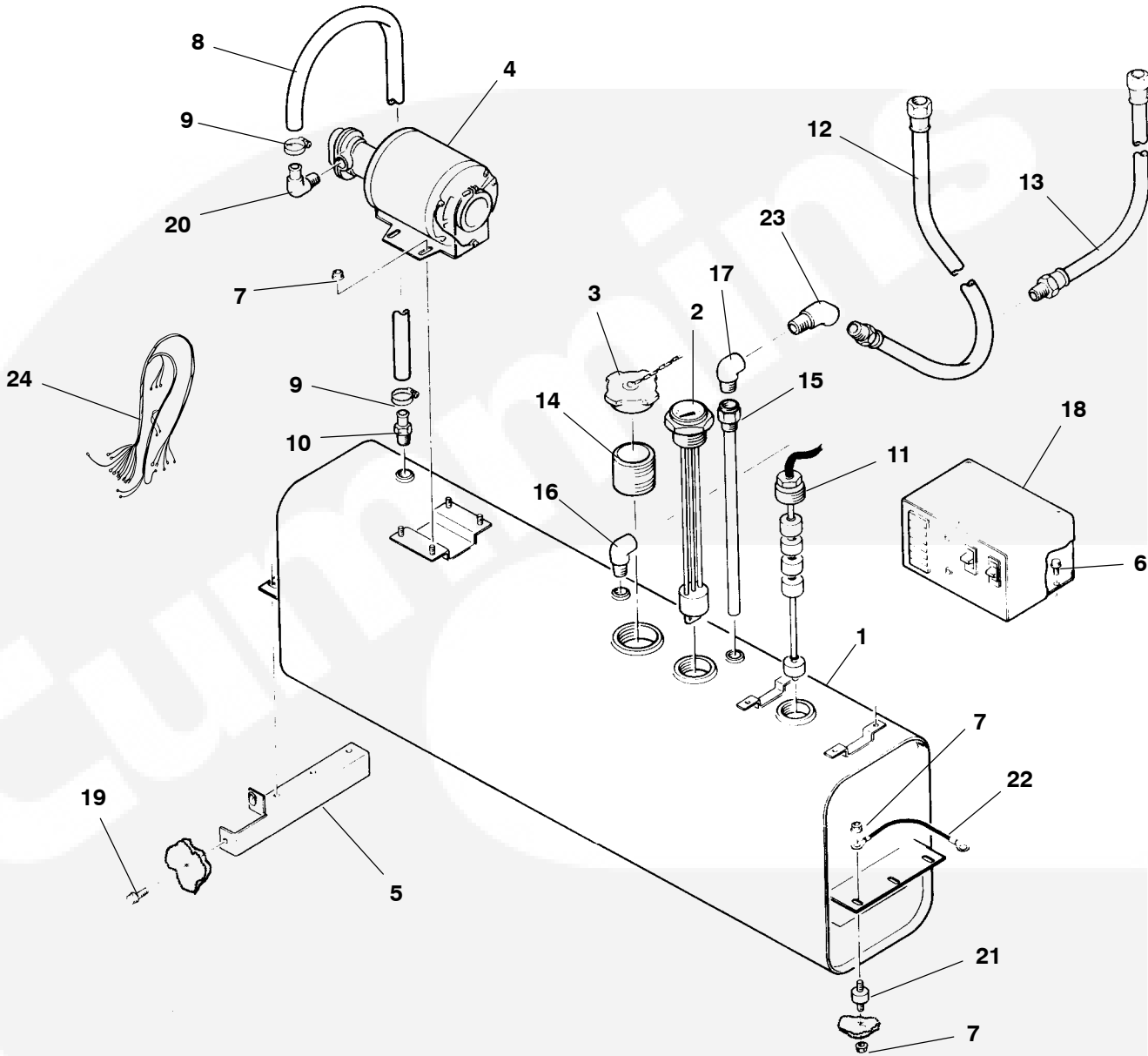
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3288-02	1	Housing, Air Cleaner	9	801-0124	2	Screw, Cap – Hex Head (5/8-18 x 3.25)
2	140-3336-02	1	Bracket, Air Cleaner	10	850-0070	2	Washer, Lock (5/8)
3	140-3339-02	1	Bracket, Air Cleaner	11	503-1870-14	3	Clamp, Hose
4	503-0970	1	Elbow, Hose – 90°	12	503-1870-11	1	Clamp, Hose
5	140-3360-02	1	Tube, Air Cleaner – Inlet	13	526-0112	2	Washer, Flat (5/8)
6	503-1675	1	Hose, Reducer	14	403-4115-01	2	Spacer, Steel
7	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)	15	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
8	870-2065-04	4	Nut, Hex – Flange (M10 x 1.5)				

**Air Cleaner
Heavy Duty
DFBF, DFCB, DFCC**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2390	1	Cleaner, Air (Includes Elements)	13	870-0550-09	6	Nut, Hex – Flange Head (3/8-16)
2	140-2392	1	Element (Outer)	14	801-0124	2	Screw, Cap – Hex Head (5/8-18 x 3-1/4")
3	140-2393	1	Element (Inner)	15	850-0070	4	Washer, Lock – Spring (5/8")
4	140-3102	1	Bracket, Mounting	16	503-1870-14	3	Clamp, Hose
5	140-3103	1	Bracket, Mounting	17	503-1870-11	1	Clamp, Hose
6	140-2052	2	Band, Mounting	18	370-4040	2	Spacer, Mounting (Used Without Optional Starting Aid)
7	140-2395	1	Tube, Air Inlet (7" OD x 11-1/2")	19	526-0112	4	Washer, Flat (5/8") (Used With Optional Starting Aid)
8	140-1545	1	Hood, Air Cleaner	20	403-4115-01	2	Spacer, Mounting
9	140-1548	1	Indicator, Service	21	800-0132	2	Screw, Cap – Hex Head (5/8-11 x 1-1/2")
10	503-1675	1	Hose, Reducer (7" ID x 5-1/2" ID)	22	502-0175	1	Adapter, Pipe
11	503-0970	1	Elbow, Hose – 90° (7" ID)				
12	821-5004-02	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

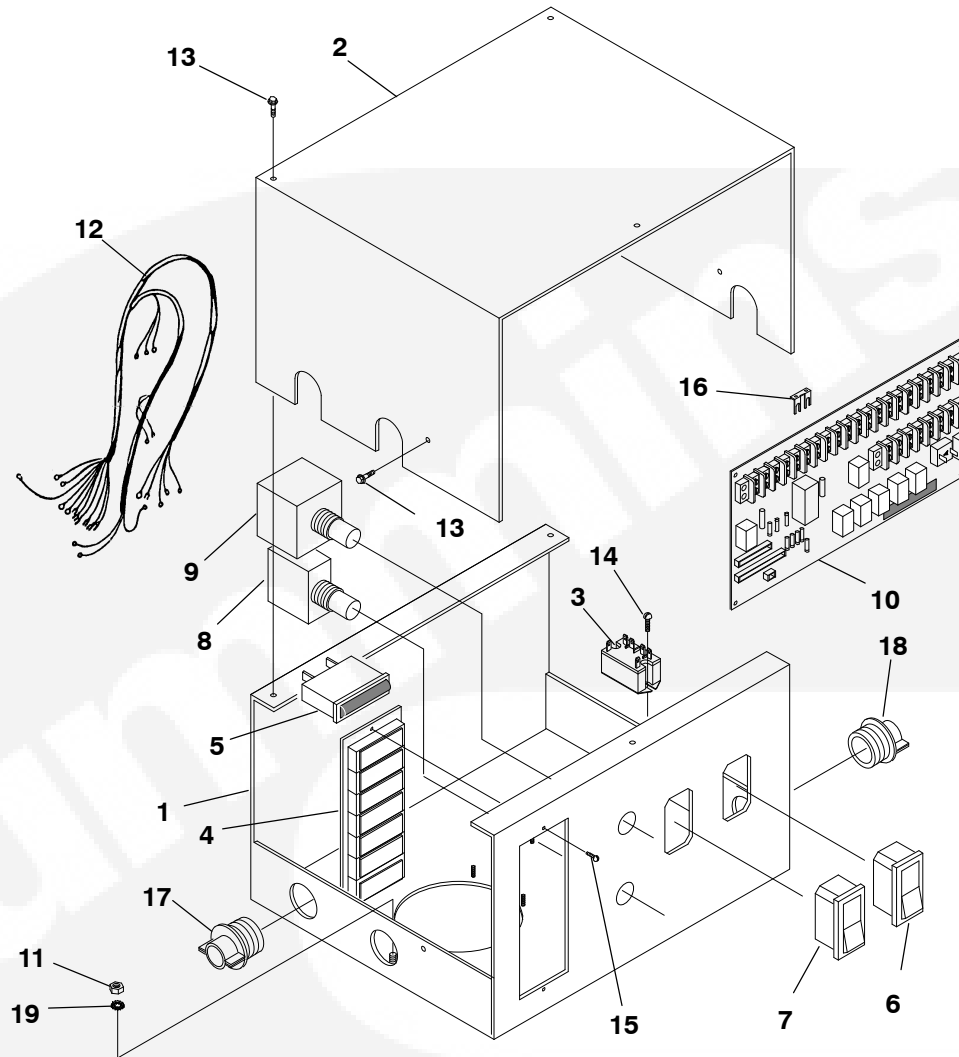
**Day Tank
With Pump and Control**



Day Tank With Pump and Control

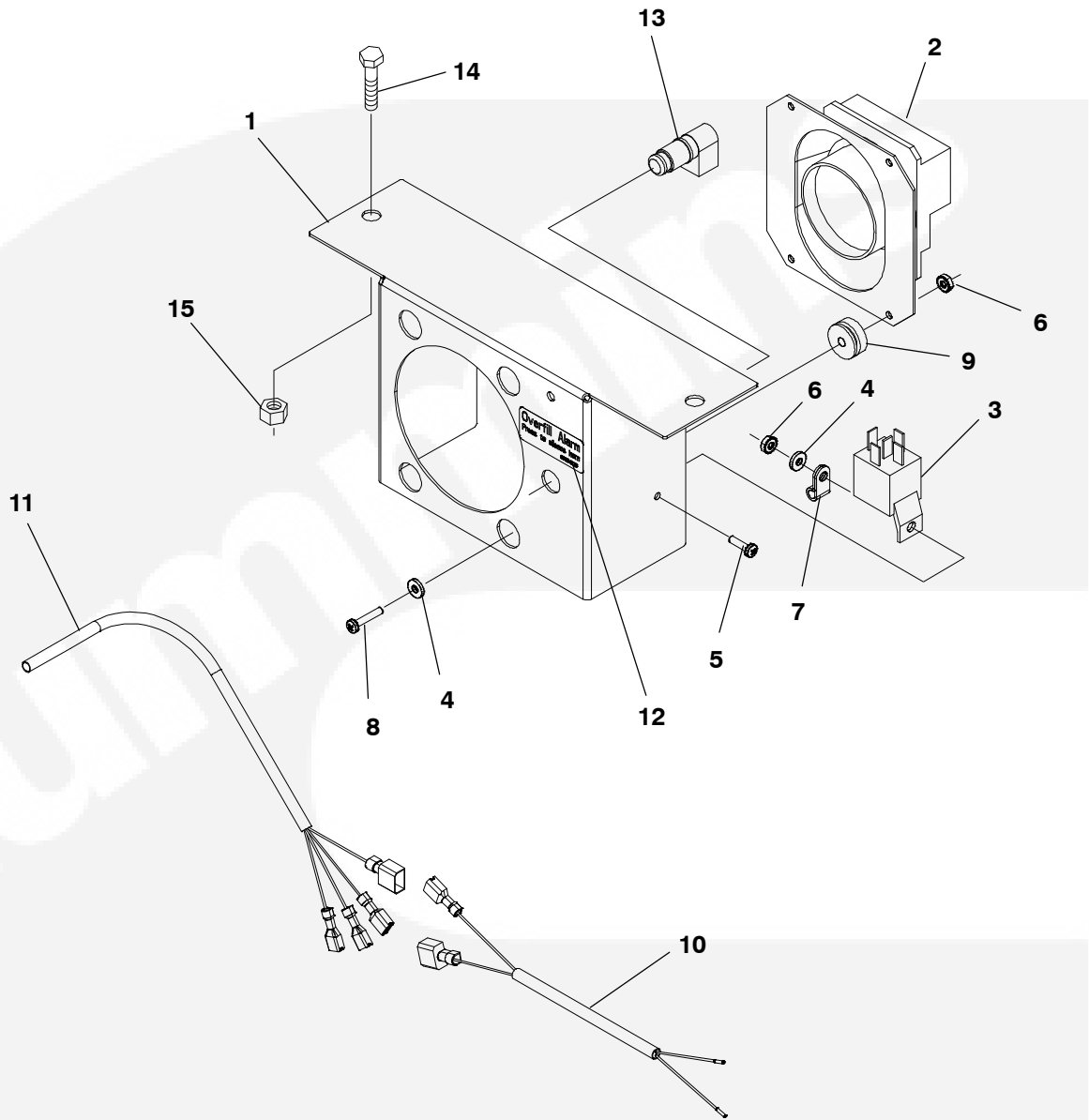
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	415-0592-01		Tank, Day	12	501-0751	1	Line, Fuel – Flexible (Fuel Supply)
2	415-0565-05	1	Gauge, Liquid Level	13	501-0752-02	1	Line, Fuel – Flexible (Fuel Return)
3	159-1208	1	Cap, Fuel	14	505-0172	1	Nipple, Pipe – Close (2")
4	399-0117	1	Pump, Fuel Transfer (Includes Coupler) (P103)	15	415-0566-05	1	Pipe, Suction
	399-0121	1	Kit, Repair – Day Tank Pump (Includes Lip Seal, Bearings, Gasket, Drive Gear, Idle Gear and Coupler) (Not Illustrated)	16	505-0120	1	Elbow, Pipe – Street (90°) (3/8")
	399-0122	1	Coupler, Pump (Drive Piece Between Motor and Pump) (Not Illustrated)	17	505-0050	1	Elbow, Pipe – Street (90°) (1/2")
	399-0123	1	Pump (Not Illustrated)	18	625-2141-01	1	Control Assembly, Day Tank (See Separate Page For Components)
	399-0124	1	Motor (Not Illustrated)	19	821-5003-03	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
5	159-1469	1	Bracket, Mounting	20	502-0942	1	Elbow, Hose – Brass (90°) (5/8" ID Hose x 3/8" Pipe)
6	821-5002-04	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	21	402-0610	6	Isolator, Vibration
7	870-0212	16	Nut, Locking – Hex Flange Head (1/4-20)	22	337-2402	1	Cable, Ground (5-1/2")
8	503-1660-04	1	Hose, Fuel (5/8" ID x 18")	23	505-0248	1	Elbow, Pipe – Street (45°) (1/2")
9	503-0183	2	Clamp, Hose	24			Harness, Wiring
10	502-0943	1	Connector, Hose		338-2442	1	Day Tank Control to Starter (2 Wire, 45") (TB1 to B1, GND)
11	308-0913-01	1	Switch – 5 Float		338-2397	1	Day Tank Control to Fuel Transfer Pump (5 Wire, 40") (P103 to TB1)

Fuel Tank Control



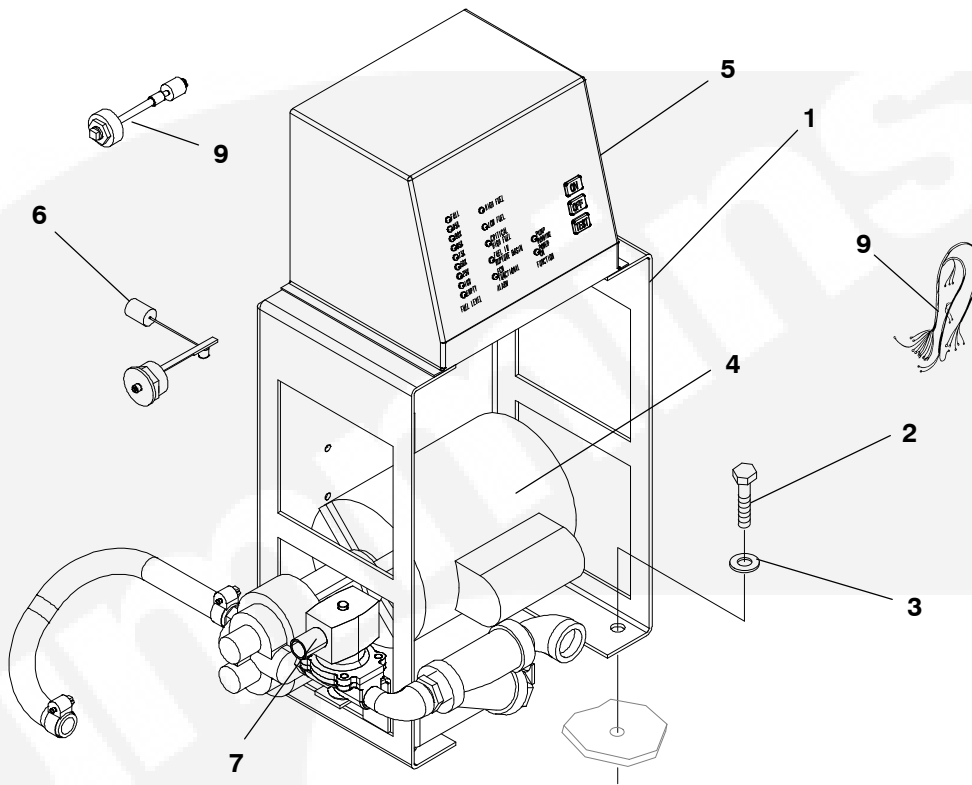
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	625-2141-01	1	Control, Fuel Tank – Complete (Includes Parts Listed Below)	11	860-0008	1	Nut, Hex (#8-32) Grounding Stud
1	319-0486	1	Box, Control	12	338-2382	1	Harness, Wiring – Control Box
2	319-0485	1	Cover, Box	13	815-0350	5	Screw, Self-Tapping – Slotted Hex Washer Head (#10-32 x 3/8")
3	307-2677-02	1	Relay, Pump (K130)	14	812-0075	2	Screw, Machine – Round Head (#8-32 x 1/4")
4	322-0403-02	1	Light, Assembly, Indicator – 7 Light (Includes Wiring Harness)	15	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")
5	322-0369-02	1	Lamp, Indicator – Replacement	16	332-2605	2	Jumper, Terminal
6	308-0912	1	Switch, Rocker (On/Off/ Emergency Run) (S102)	17	331-0027	2	Connector, Romex
7	308-0852	1	Switch, Rocker (Reset/Off/Test) (S111)	18	331-0042	1	Connector, Knockout
8	320-1653	1	Breaker, Circuit – DC (Single Pole) (CB107)	19	856-0002	1	Washer, Lock – EIT (#8) Grounding Stud
9	320-1654	1	Breaker, Circuit – AC (Double Pole) (CB101)				
10	300-3464	1	Board, Printed Circuit				

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 Items 14 and 15)	8	815-0651	4	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .75)
1	319-5056-02	1	Box, Control	9	508-1195	4	Grommet
2	333-0682	1	Horn, Alarm	10	338-4360-01	1	Harness, Alarm
3	307-2817-02	1	Relay	11	338-4360-02	1	Harness, Alarm
4	526-0399-05	9	Washer, Flat	12	098-8120	1	Label, Information
5	815-0937	1	Screw, Machine – Pan Head – Cross Recessed – W/ET (#6-32 x .50)	13	308-0973	1	Switch, Pushbutton
6	870-0183	5	Nut, Hex – W/ET	14	821-6003-03	2	Screw, Hex Head – Mounting (M8 x 25)
7	518-0340	1	Clamp, Cable	15	870-2055	2	Nut, Hex (M8)

Fuel Transfer Pump and Control

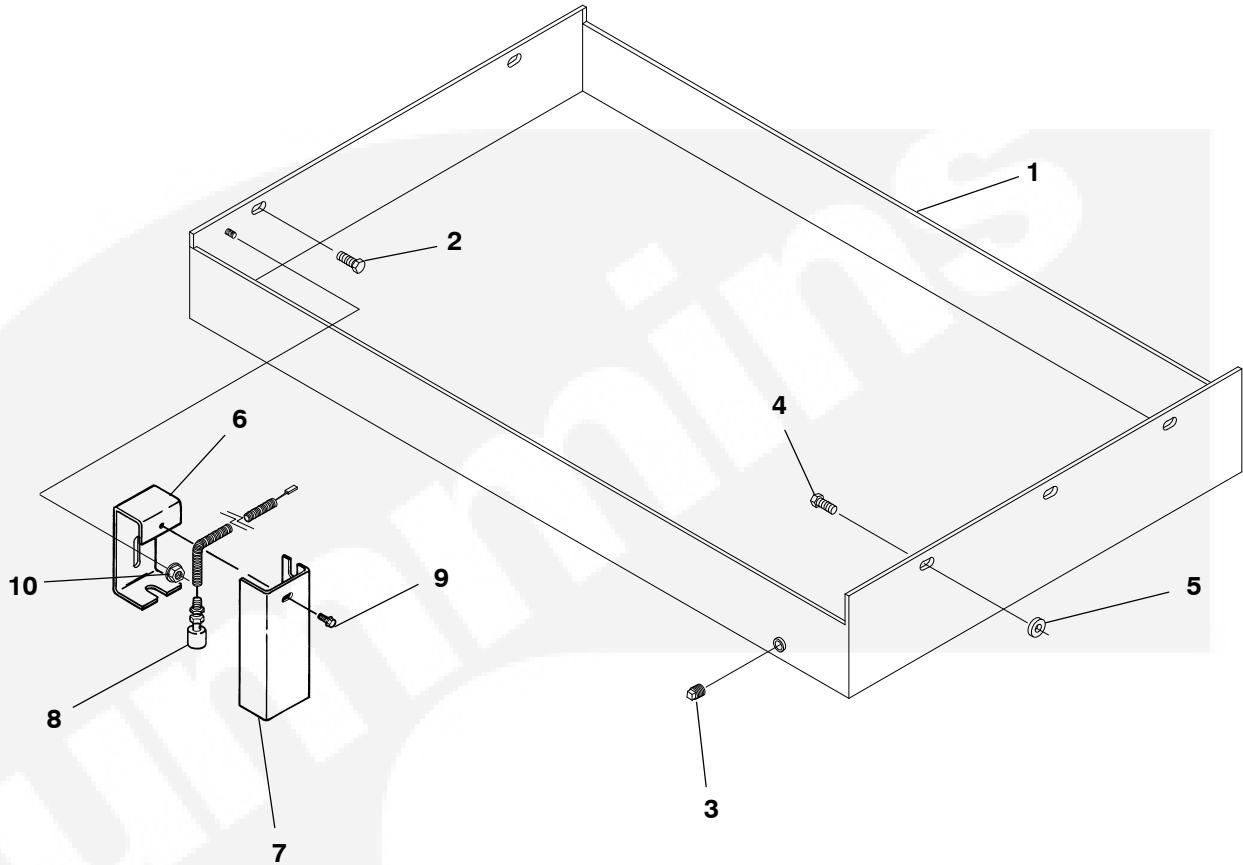


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump, Fuel – Assembly	6			Gauge – Float
			2 GPM				300 Gallon Tank
	149-2699-01	1	300 Gallon Tank		420-0610-01	1	300 Gallon Tank
	149-2699-02	1	400 Gallon Tank		420-0610-02	1	400 Gallon Tank
	149-2699-03	1	500 Gallon Tank		420-0610-03	1	500 Gallon Tank
	149-2699-04	1	600 Gallon Tank		420-0610-04	1	600 Gallon Tank
	149-2699-05	1	660 Gallon Tank		420-0610-05	1	660 Gallon Tank
	149-2699-06	1	720 Gallon Tank		420-0610-06	1	720 Gallon Tank
			4 GPM	7	504-0252-01	1	Valve, Solenoid – Fuel
	149-2699-11	1	300 Gallon Tank	8	309-0703-01	1	Switch, Level – Critical
	149-2699-12	1	400 Gallon Tank	9	338-4426	1	Harness, Wiring
	149-2699-13	1	500 Gallon Tank				
	149-2699-14	1	600 Gallon Tank				
	149-2699-15	1	660 Gallon Tank				
	149-2699-16	1	720 Gallon Tank				
2	526-0399-59	4	Washer, Flat (M6)				
3	821-6002-03	4	Screw, Hex Head (M6 x 1 x 16)				
4			Pump, Fuel – With Motor				
	149-2710-01	1	2 GPM				
	149-2710-02	1	4 GPM				
5	300-5815	1	Control, Pump – ECM				

NOTE: Pump Control Assembly Includes:

503-1660	1	Hose (5/8" ID x 7/8" OD x 508mm)
502-0942	1	Barb, Hose – 90° (3/8 x 5/8)
502-0993	1	Barb, Hose – Straight (3/8 x 5/8)

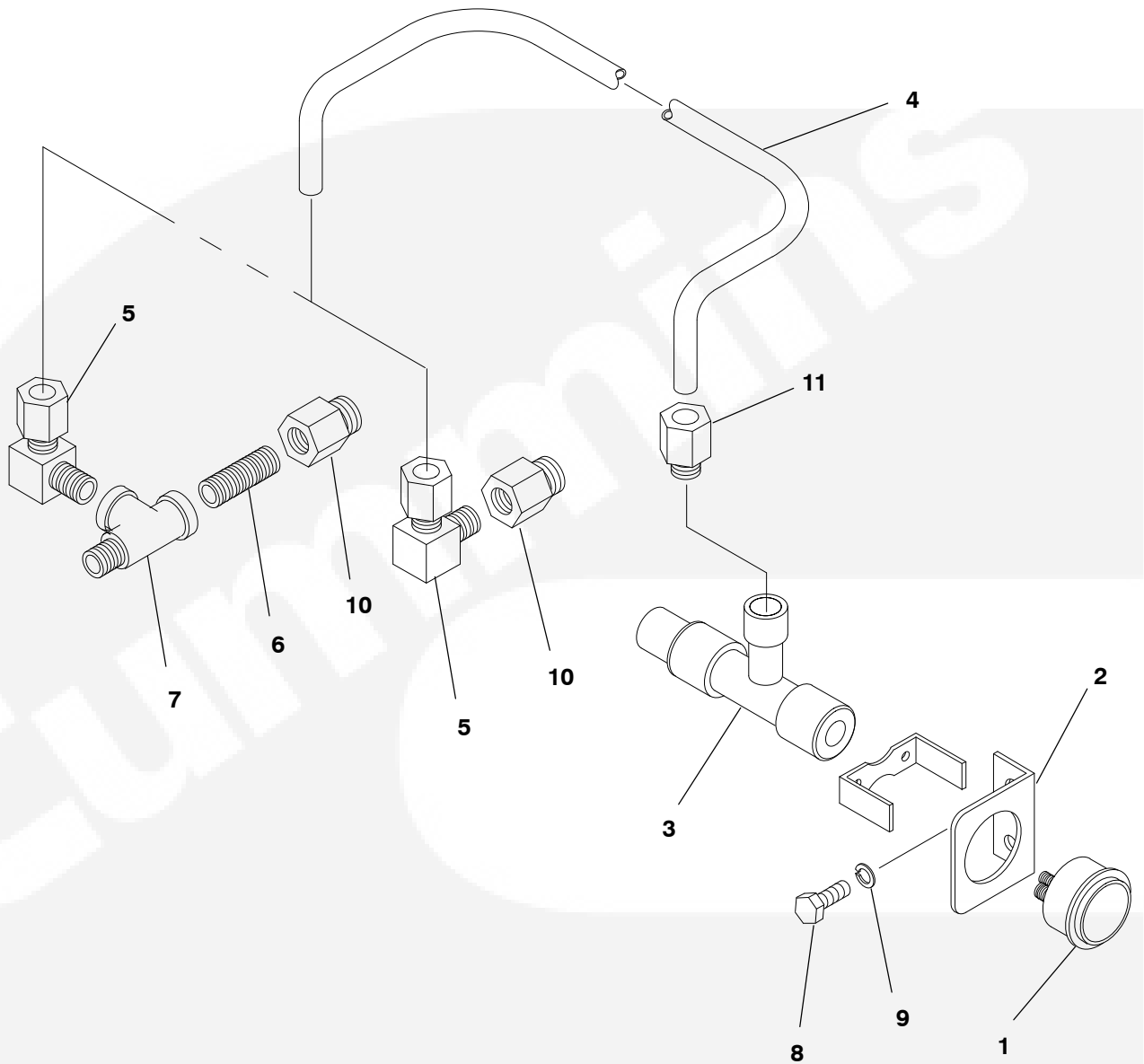
Rupture Basin



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	159-1470	1	Basin, Rupture	7	319-0489	1	*Cover, Switch
2	815-0236	2	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 5/8")	8	308-1074	1	*Switch, Float – Basin
3	505-0055	1	Plug, Pipe – Square Head (1/4")	9	821-0010	1	*Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
4	815-0836	3	Screw, Cap – Hex Head – Thread Forming (5/16-18 x 1-1/2")	10	870-0212	1	*Nut, Locking – Hex Flange (1/4-20)
5	130-3660-01	3	Spacer				
6	319-0490	1	*Bracket, Mounting				

* – Not Used On All Models

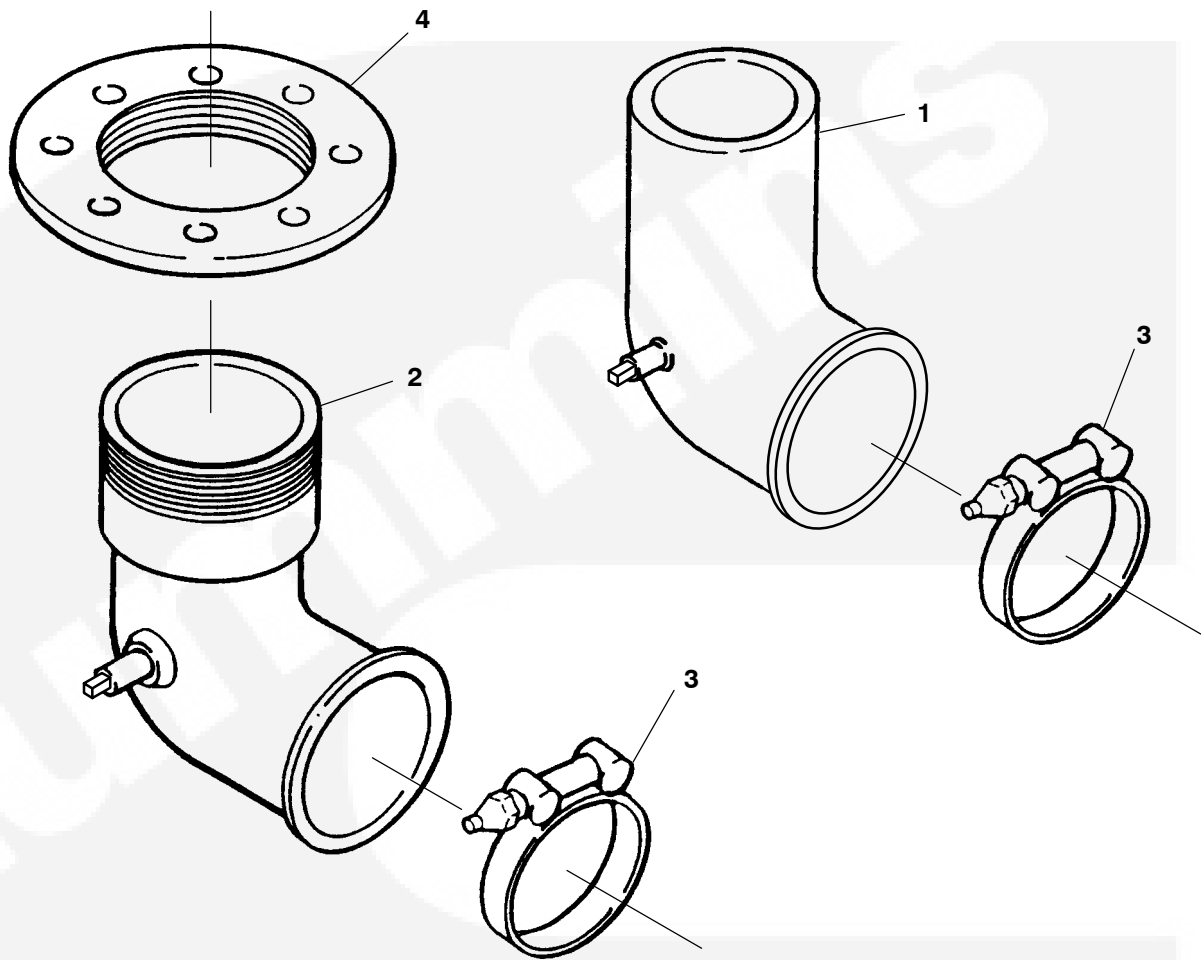
Fuel Pressure Gauge



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0540	1	Gauge, Fuel Pressure (Includes Mounting Hardware)
2	193-0029	1	Bracket, Mounting
3	504-0064	1	Valve, Tee (1/8")
4	149-2291-01	1	Tube, Copper (7')
5	502-0034	1	Elbow, Compression - 90° (Includes Nut and Ring)
6	505-0098	1	Nipple, Pipe - Close (1/8")
7	502-1226	1	Tee, Male Run - Brass (1/8")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	800-0218	1	Screw, Cap - Hex Head (9/16-18 x 7/8")
9	850-0065	1	Washer, Lock - Spring (9/16")
10	502-1302	1	Adapter, Female Pipe - Brass (1/8" x 1/2-20)
11	502-0067	2	Connector, Compression - Male
12	140-1260-01	1	Fitting, Safety Filter (Not Illustrated)

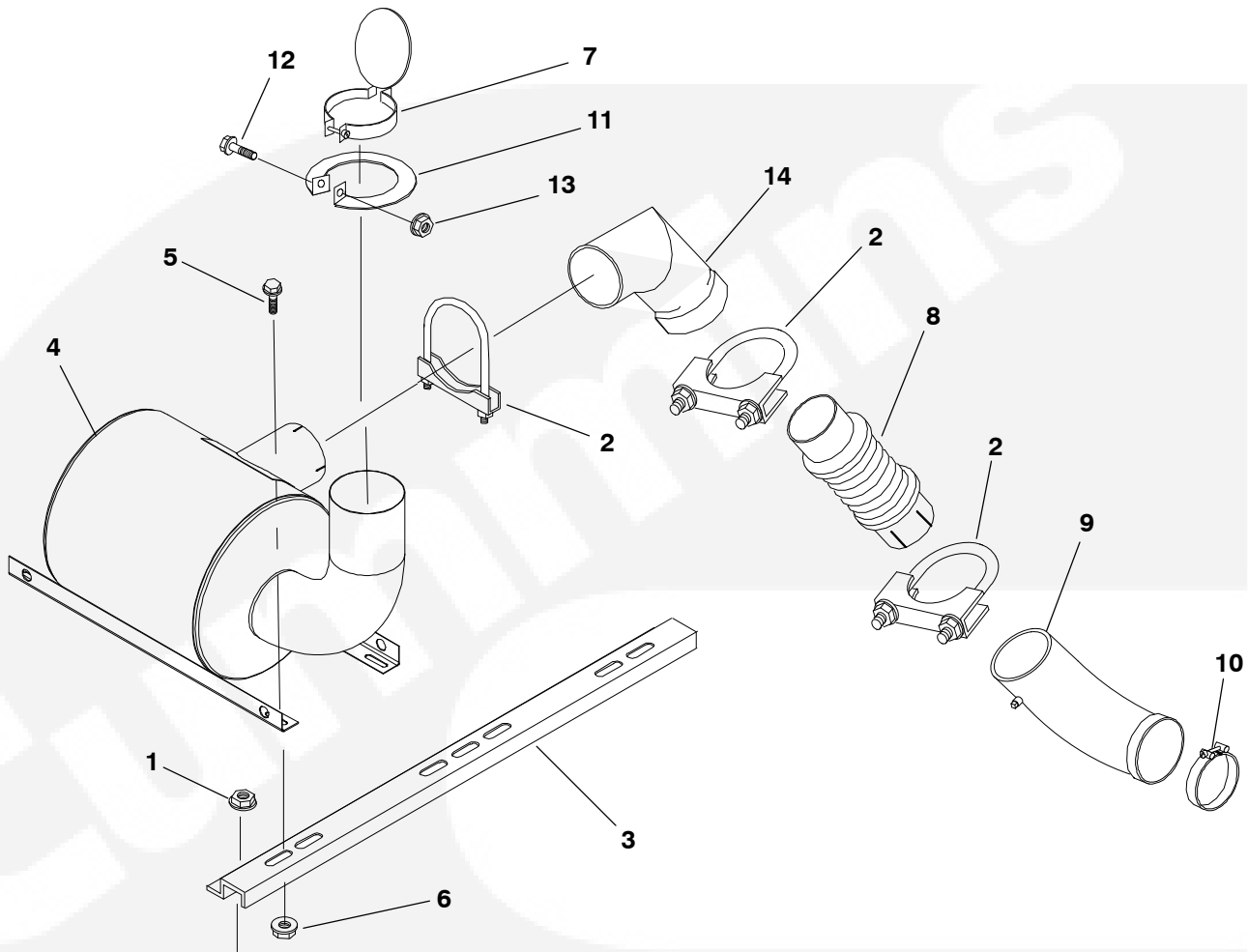
Exhaust Elbow



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-1241	1	Elbow, Exhaust (5" OD Without Threads)
2	155-2409	1	Elbow, Exhaust (5" OD With Threads)

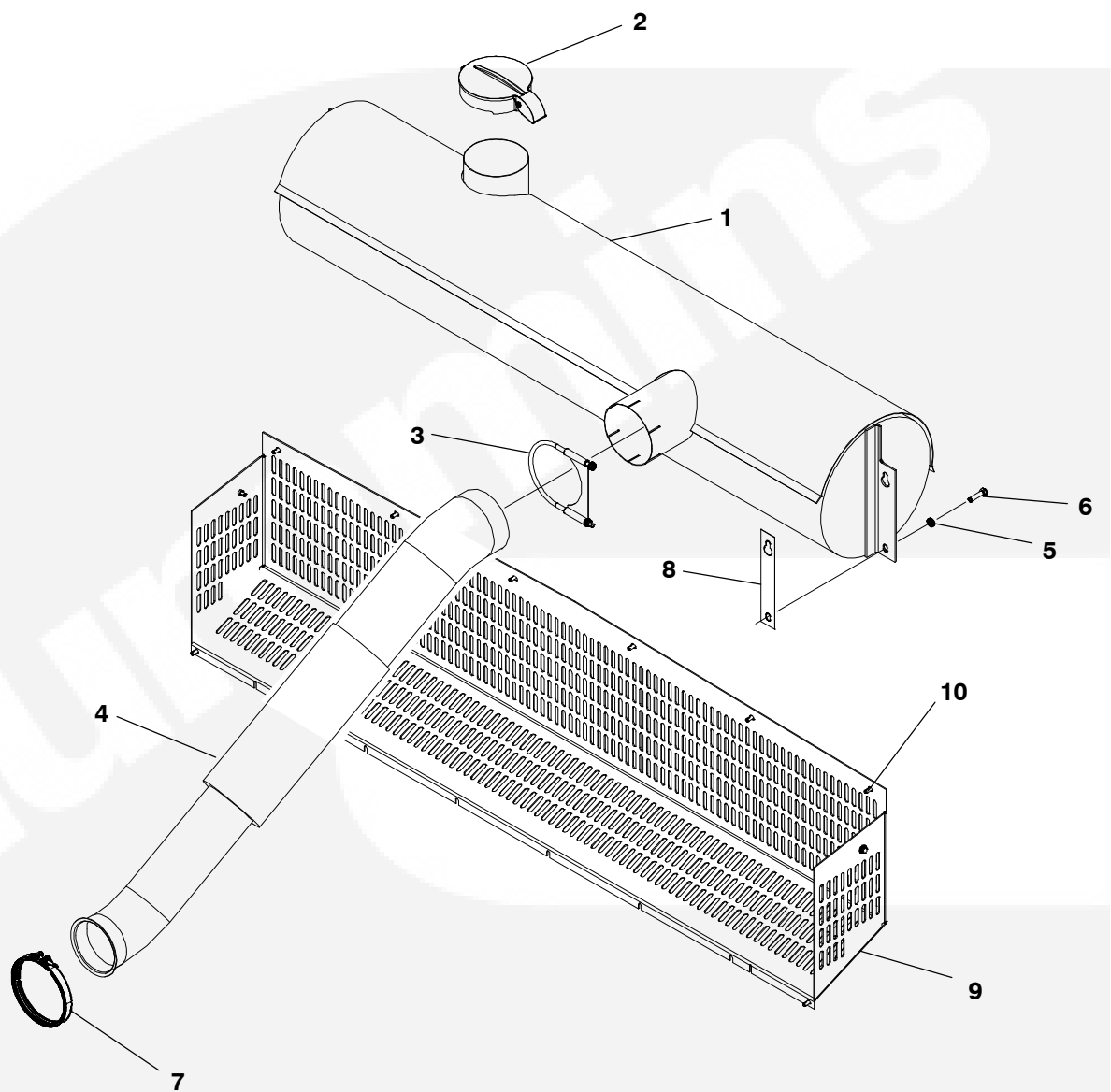
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	503-1575	1	Clamp, V-Band
4	155-0658	1	Flange, Companion (5") (Not Use On All Models)

Muffler With Standard Enclosure



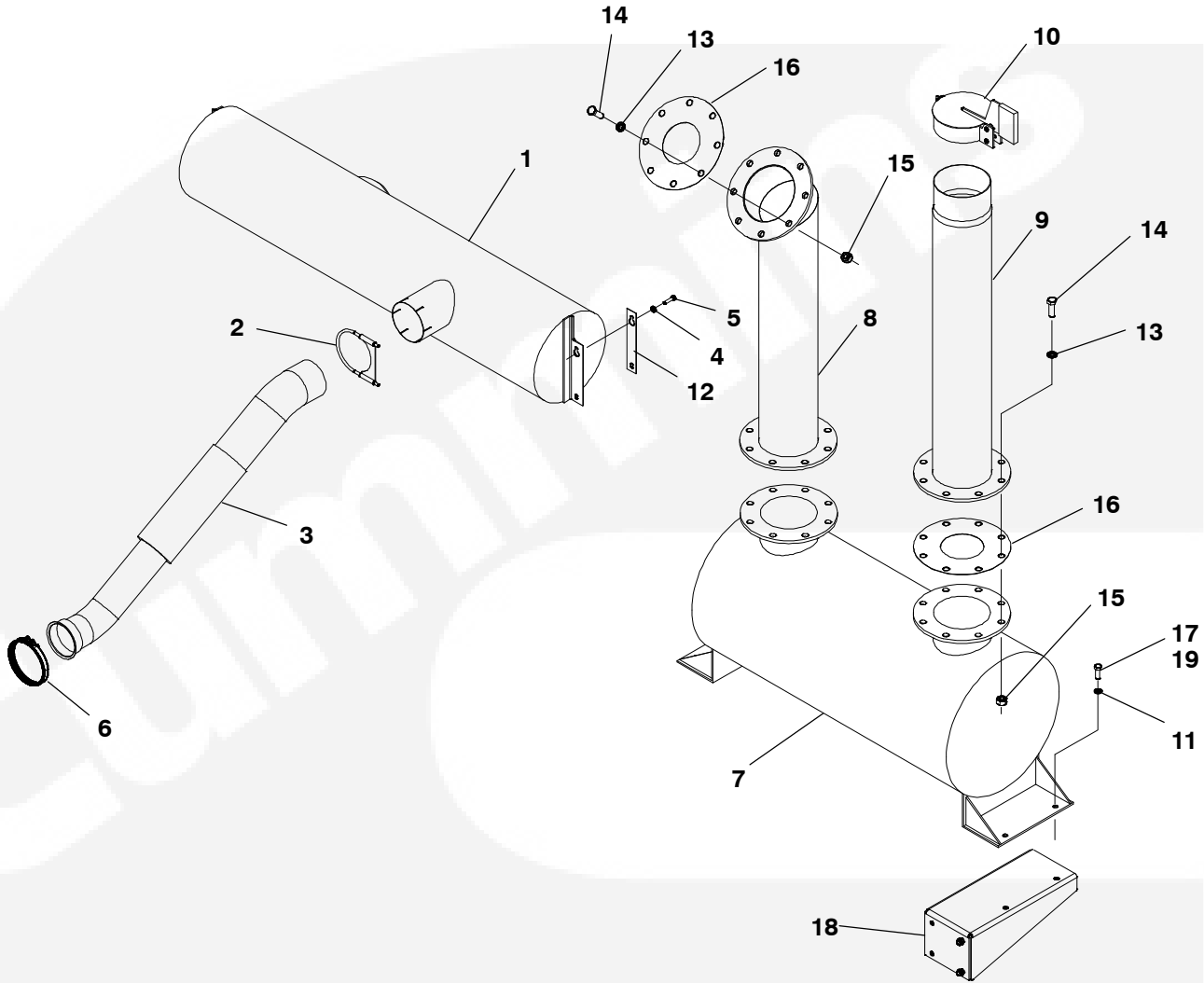
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0257	4	Nut, Hex – Locking (5/16-18)	8	155-3135	1	Tubing, Flexible
2	155-2159	3	Clamp, Muffler	9	155-1241-01	1	Elbow, Exhaust
3	155-3159	2	Bracket, Mounting	10	503-1575	1	Clamp, V-Band
4	155-3540	1	Muffler	11	155-3139	1	Shield, Rain
5	821-0033	4	Screw, Cap – Hex Head (7/16-14 x 3/4")	12	813-0107	1	Screw, Machine – Round Head (#10-32 x 1.25)
6	870-0437	4	Nut, Hex – Locking (7/16-14)	13	870-0131	1	Nut, Hex – W/ET (#10-32)
7	155-2062-06	1	Cap, Rain	14	155-3153	1	Elbow, Exhaust

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	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	155-4054	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**

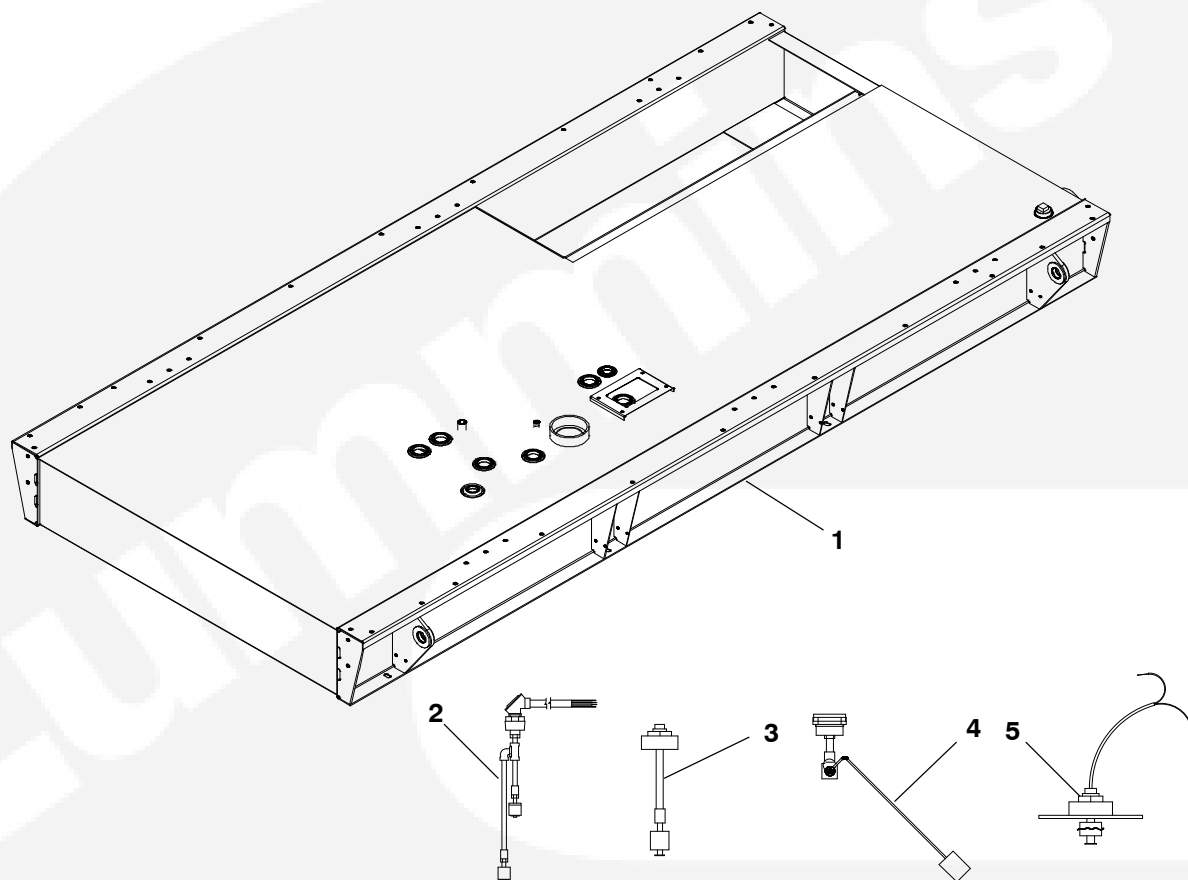


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-4062	1	Muffler	12	155-4064	2	Gasket, Muffler
2	155-3543	1	Clamp, Exhaust	13	850-0079	24	Washer, Spring – Lock (3/4)
3	155-4054	1	Pipe, Exhaust	14	800-0156	24	Screw, Cap – Hex Head (3/4-10 x 2.25)
4	526-0174	6	Washer, Flat	15	862-0008-01	24	Nut, Hex – Heavy (3/4-10)
5	800-2089	6	Screw, Cap – Hex Head (M10 x 1.5 x 40)	16	155-2500	3	Gasket, Exhaust
6	503-1575	1	Clamp, Hose	17	800-2111	4	Screw, Cap – Hex Head (M12 x 1.75 x 25) – 48 and 72 Hour Tank
7	155-4047	1	Muffler – Critical	18	155-4048-02	2	Bracket, Muffler) – 12 and 24 Hour Tank
8	155-4045	1	Pipe, Exhaust (8" x 45°)	19	800-2114	8	Screw, Cap – Hex Head (M12 x 1.75 x 40) – 12 and 24 Hour Tank
9	155-4026	1	Tailpipe, Exhaust (8")				
10	155-3554	1	Cap, Rain				
11			Washer, Flat (M12)				
	526-2140	4	48 and 72 Hour Tank				
	526-2140	8	12 and 24 Hour Tank				

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Fuel Tank

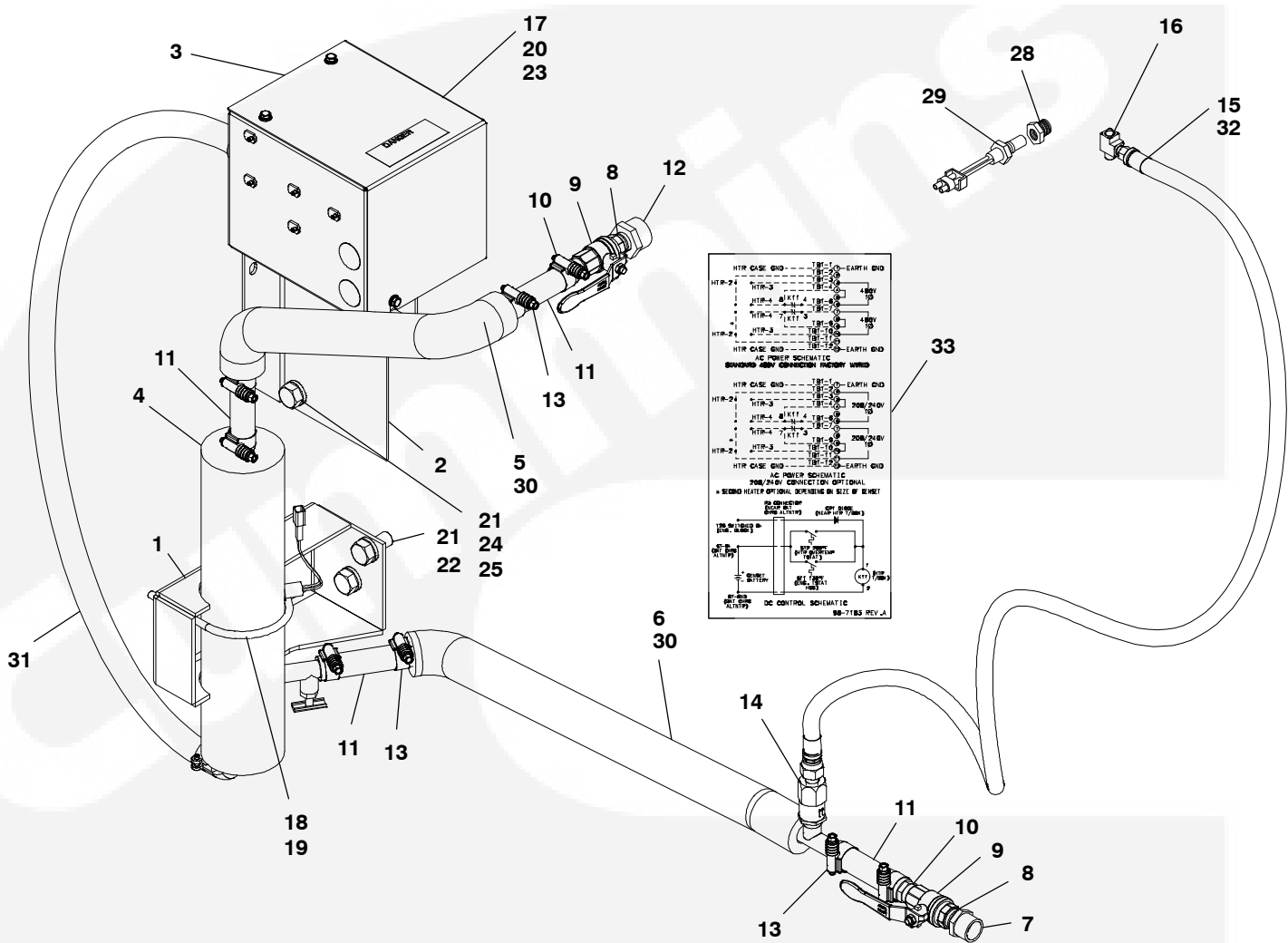


Fuel Tank

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tank, Fuel	2			Switch, Level – High and Low
			Standard (Chicago)		309-0701-01	1	300 Gallon Tank
	159-1573-01	1	300 Gallon		309-0701-02	1	400 Gallon Tank
	159-1573-02	1	400 Gallon		309-0701-03	1	500 Gallon Tank
	159-1573-03	1	500 Gallon		309-0701-04	1	600 Gallon Tank
	159-1573-04	1	600 Gallon		309-0701-05	1	660 Gallon Tank
	159-1573-05	1	660 Gallon		309-0701-07	1	720 Gallon Tank
	159-1573-06	1	720 Gallon		309-0701-08	1	1470 Gallon Tank
	159-1577-01	1	1470 Gallon	3			Switch, Level – Rupture Basin
			California		309-0702-01	1	300 Gallon Tank
	159-1573-11	1	300 Gallon		309-0702-02	1	400 Gallon Tank
	159-1573-12	1	400 Gallon		309-0702-03	1	500 Gallon Tank
	159-1573-13	1	500 Gallon		309-0702-04	1	600 Gallon Tank
	159-1573-14	1	600 Gallon		309-0702-05	1	660 Gallon Tank
	159-1573-15	1	660 Gallon		309-0702-07	1	720 Gallon Tank
	159-1573-16	1	720 Gallon		309-0702-08	1	1470 Gallon Tank
			Florida	4			Gauge – Fuel Level
	159-1573-21	1	300 Gallon		420-0609-01	1	300 Gallon Tank
	159-1573-22	1	400 Gallon		420-0609-02	1	400 Gallon Tank
	159-1573-23	1	500 Gallon		420-0609-03	1	500 Gallon Tank
	159-1573-24	1	600 Gallon		420-0609-04	1	600 Gallon Tank
	159-1573-25	1	660 Gallon		420-0609-05	1	660 Gallon Tank
	159-1573-26	1	720 Gallon		420-0609-07	1	720 Gallon Tank
			Michigan, Nassau County, and Suffolk County		420-0609-08	1	1470 Gallon Tank
	159-1573-31	1	300 Gallon	5			Switch, Level – Critical High
	159-1573-32	1	400 Gallon		309-0708-01	1	300–500 Gallon Tank
	159-1573-33	1	500 Gallon		309-0708-02	1	600–850 Gallon Tank
	159-1573-34	1	600 Gallon				
	159-1573-35	1	660 Gallon				
	159-1573-36	1	720 Gallon				
			New York City				
	159-1573-41	1	300 Gallon				



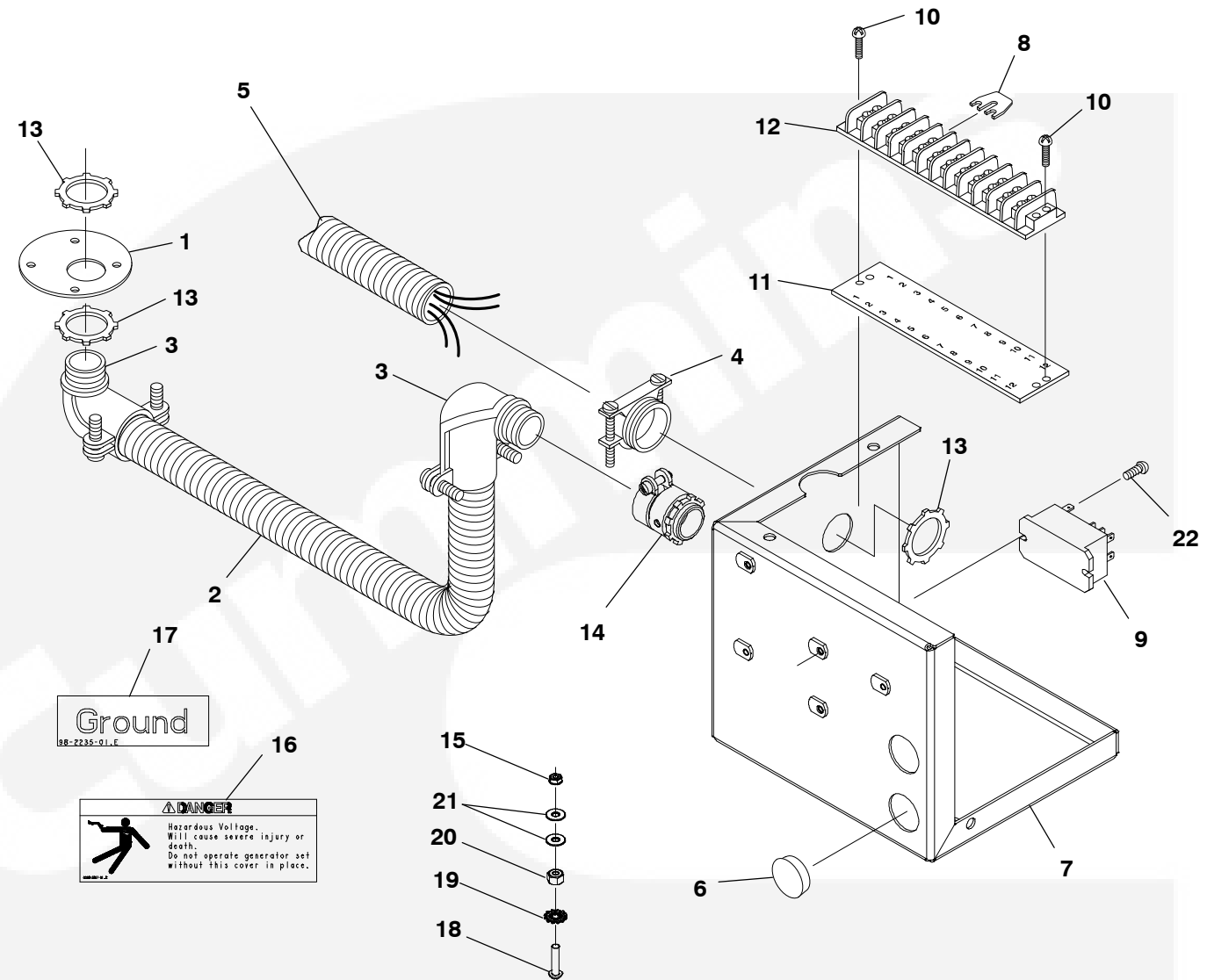
Coolant Heater



Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4586	1	Bracket, Water Heater	19	870-0550-09	2	Nut, Hex – Flange (3/8-16)
2	319-4385-02	1	Bracket, Terminal Box	20	821-5002-03	4	Screw, Hex Head (1/4-20 x .50)
3	300-6462	1	Control Assembly, Coolant Heater (See Separate Page For Components)	21	850-0070	4	Washer, Lock – Split (5/8)
4			Heater, Coolant	22	800-0130	2	Screw, Cap – Hex Head (5/8-11 x 1.25)
	333-0677-01	1	4990 Watt	23	821-5004-02	2	Screw, Hex Head (3/8-16 x .75)
	333-0677-02	1	6420 Watt	24	370-4040	2	Spacer
5	130-6011-02	1	Tube, Water Heater	25	800-0132	2	Screw, Cap – Hex Head (5/8-11 x 1.5)
6	130-6012-02	1	Tube, Water Heater – Used With Radiator and Remote Radiator Engine Cooling	26	130-6015-02	1	Tube, Water Heater – Used With Heat Exchanger Engine Cooling (Not Shown)
7	505-0021	1	Bushing, Reducer (3/4 x 1/2) – Used With Radiator and Remote Radiator Engine Cooling	27	505-0003	1	Elbow, Street – 90° – Used With Heat Exchanger Engine Cooling (Not Shown)
8	505-0100	2	Nipple, Pipe (1/2 x 1.13)	28	502-1336	1	Bushing, Reducer (1/2 x 3/8)
9	504-0213	2	Valve, Ball	29	309-0649	1	Thermostat
10	502-0827	2	Hose, Barb	30			Insulation, Hose – Bulk (Order by the Foot)
11	503-1634-01	4	Hose, Silicon Rubber		128-0108	–	4 Feet Required – Used With Radiator and Remote Radiator Engine Cooling
12			Bushing, Reducer (1 x 1/2)				9 Feet Required – Used With Heat Exchanger Engine Cooling
	505-0022	1	Radiator and Remote Radiator Engine Cooling				Clamp, “J”
	505-0022	2	Heat Exchanger Engine Cooling				Clamp, Hose
13	503-2157-01	8	Clamp, Hose		128-0108	–	Label, Relay Box
14	504-0215	1	Valve, Check	31	332-3196	2	
15	501-0744-04	1	Hose Assembly – Coolant	32	518-0548-15 A/R		
16	502-0058	1	Adaptor, Tee	33	098-7183	1	
17	319-6838	1	Cover, Control				
18	155-3021	1	Clamp, Water Heater				

Coolant Heater Control

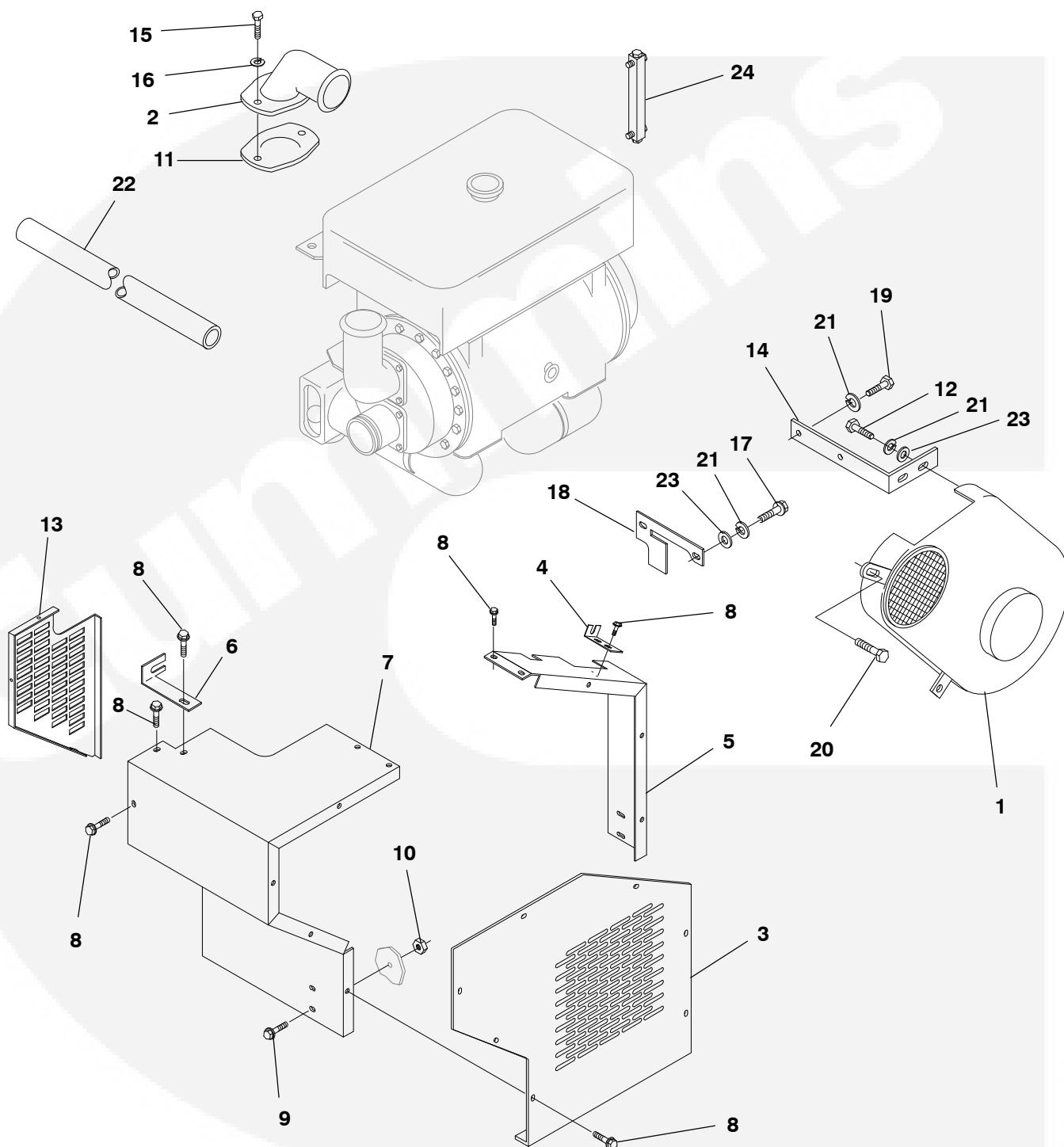


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-6462	1	Control, Heater - Complete	11	332-1469	1	Strip, Marker
1	130-4552	1	Cover, Coolant Heater	12	332-1468	1	Block, Terminal - 12 Place (TB1)
2	338-4995-11	1	Harness, Wiring - Heater (Engine) (Includes Conduit Connectors)	13	331-0555	3	Nut, Connector Lock (3/4-14)
3	331-0554	2	Connector, Conduit - 90° (3/4")	14	331-0570	1	Connector, Conduit
4	331-0042	1	Connector, Wiring - DC - Romex (3/4")	15	870-0131	1	Nut, Hex - W/ET (#10-32)
5	338-5107	1	Harness, Wiring - Heater	16	098-5347-01	1	Label, Danger
6	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)	17	098-2235-02	1	Label, Ground
7	319-4787-02	1	Box, Terminal	18	815-0203	1	Screw, Machine - Round Head - Brass - W/ET (#10-32 x 7/8)
8	332-3440	1	Jumper, Terminal	19	856-0003	1	Washer, Lock - W/EIT (#10)
9	307-3089	2	Relay, Power	20	871-0010	1	Nut, Hex - Brass (#10-32)
10	815-0447	3	Screw, Machine - Round Head - Cross Recessed W/IT - Thread Forming (#8-32 x .75")	21	526-0049	2	Washer, Flat - Brass (#10)
				22	815-0446	4	Screw, Cross Recessed - Round Head - Thread Cutting - W/IT (#8-32 x 7/8)

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Heat Exchanger DFBF, DFCB, DFCC

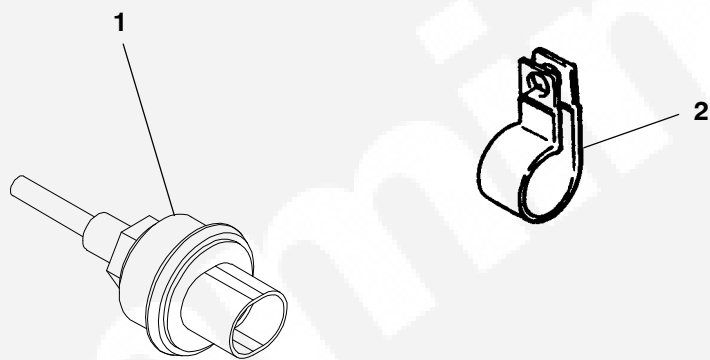


Heat Exchanger DFBF, DFCB, DFCC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt	14	130-3310	1	Brace, Belt Guard
2	130-3180	1	Connection, Radiator	15	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
3	130-4667	1	Plate, Belt Guard	16	850-0050	2	Washer, Lock – Spring (3/8")
4	130-3564	1	Bracket, Belt Guard	17	821-0028	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1/2")
5	130-4668	1	Guard, Belt	18	130-4043	1	Plate, Cover
6	130-3563	1	Bracket, Belt Guard	19	800-0209	2	Screw, Cap – Hex Head (3/8-16 x 1")
7	130-4672	1	Guard, Belt	20	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
8	821-5002-03	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	21	850-0103	6	Washer, Lock – Spring (3/8")
9	821-5003-03	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x .75)	22	895-0296	2	Tubing, Glass Fiber (7/8" ID x 20")
10	870-0550-07	2	Nut, Locking – Flange Head (5/16-18)	23	526-0346	4	Washer, Flat (3/8")
11	130-3184	1	Gasket, Connection	24	130-3314-01	1	Gauge, Sight
12	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8")				
13	130-4729	1	Guard, Belt				



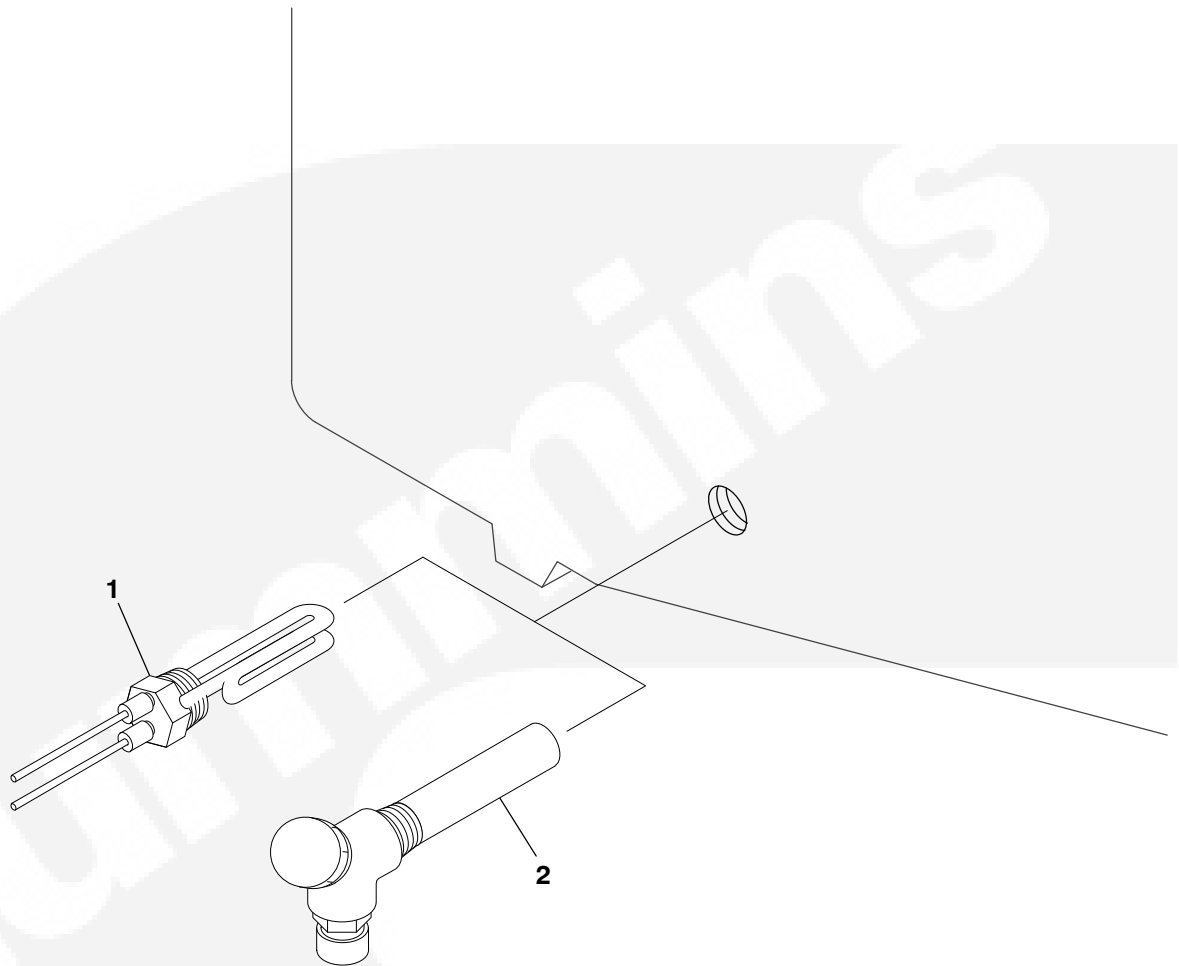
Low Coolant Level Sender



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0468	1	Sender, Low Coolant Level (S7)	2	518-0548-15	1	Clamp



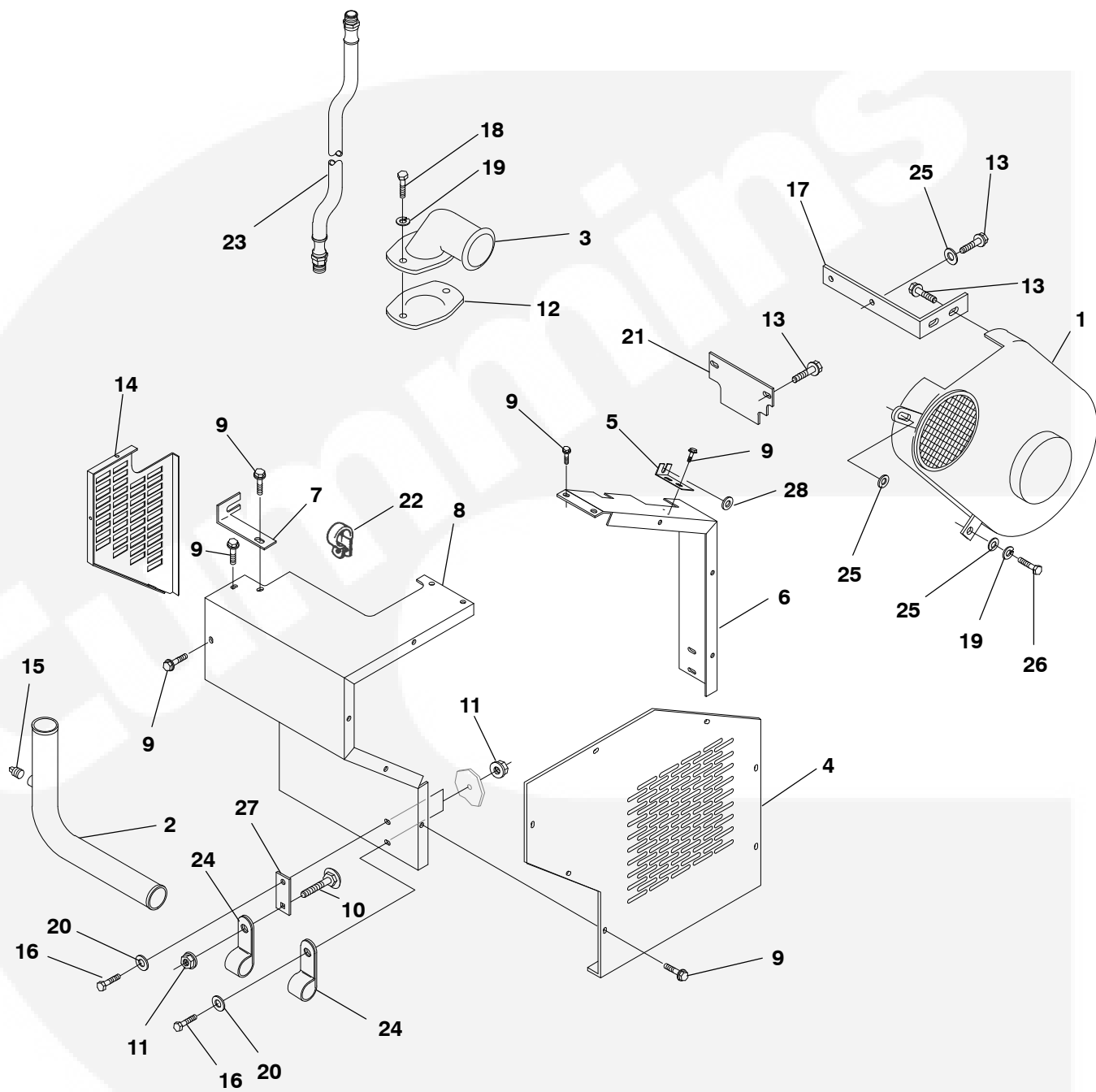
Oil Pan Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater, Oil (300 Watt)
	333-0407-06	1	120 Volt
	333-0407-04	1	240 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	333-0407-05	1	Heater, Oil (300 Watt, 480 Volt)

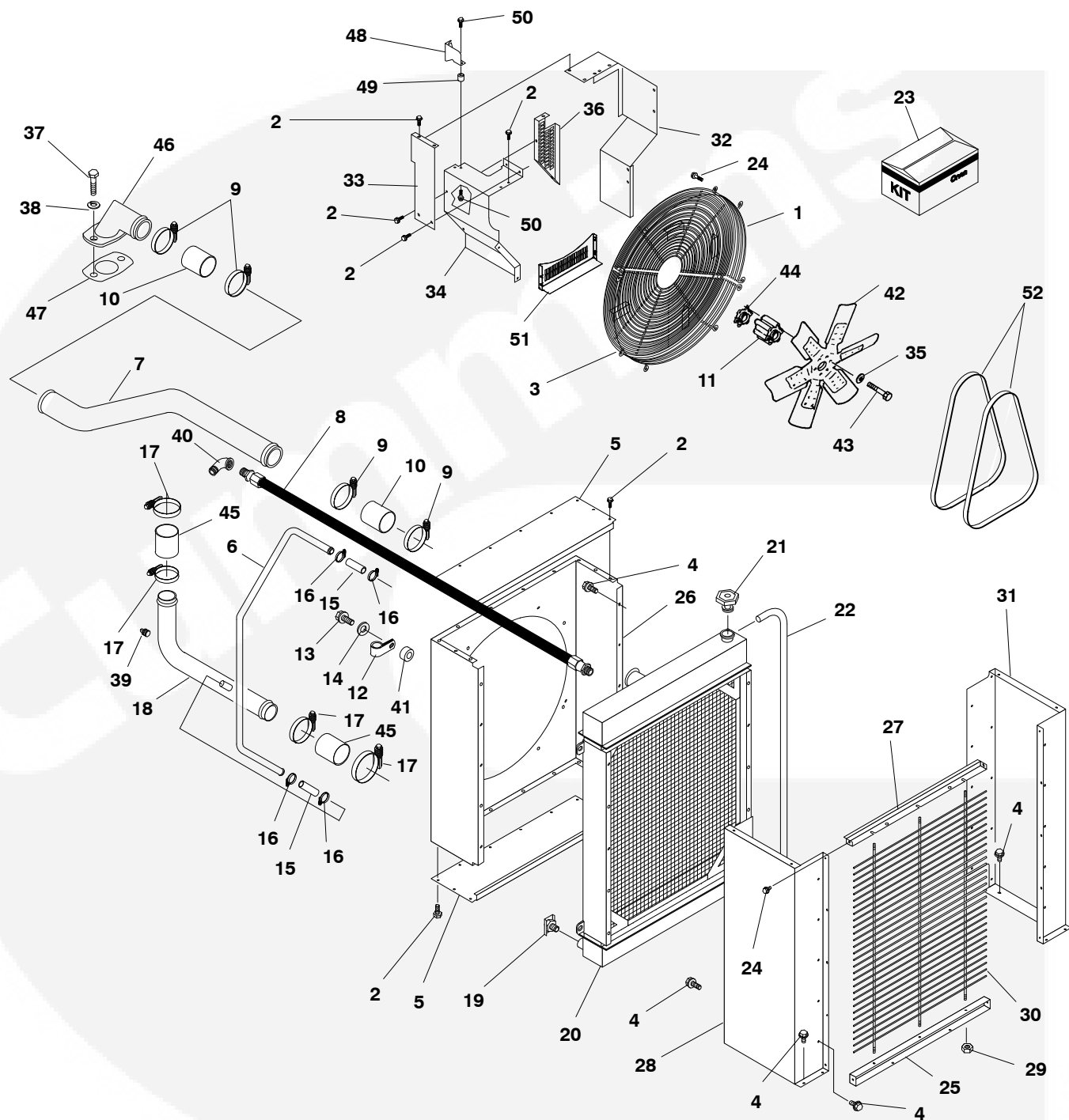
Remote Radiator DFBF, DFCB, DFCC



Remote Radiator DFBF, DFCB, DFCC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3311	1	Guard, Belt	16	800-0028	2	Screw, Cap – Hex Head (5/16-18 x 1")
2	130-4280	1	Tube, Outlet	17	130-3310	1	Brace, Belt Guard
3	130-3180	1	Connection, Radiator	18	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
4	130-4667	1	Plate, Belt Guard	19	850-0050	3	Washer, Lock – Spring (3/8")
5	130-3564	1	Bracket, Belt Guard	20	526-0054	2	Washer, Flat (5/16")
6	130-4668	1	Guard, Belt	21	130-3343	1	Plate, Cover
7	130-3563	1	Bracket, Belt Guard	22	518-0633	1	Clamp, "J"
8	130-4666	1	Guard, Belt	23	501-0247	1	Line, Flexible (69")
9	821-5002-03	14	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	24	503-1816	1	Clamp, Retainer
10	816-0098	1	Bolt, Carriage (5/16-18 x 5/8") Begin Spec P	25	526-0399-19	3	Washer, Flat (3/8")
11	870-0550-07	2	Nut, Flange Head (5/16-18)	26	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
12	130-3184	1	Gasket, Connection	27	130-4675	1	Strap, Water Tube Outlet – Begin Spec P
13	821-5004-02	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	28	526-0141	1	Washer, Flat (15/32" ID x 1-1/4" OD)
14	130-4729	1	Guard, Belt				
15	505-0130	1	Plug, Pipe – Square Head (3/4-14)				

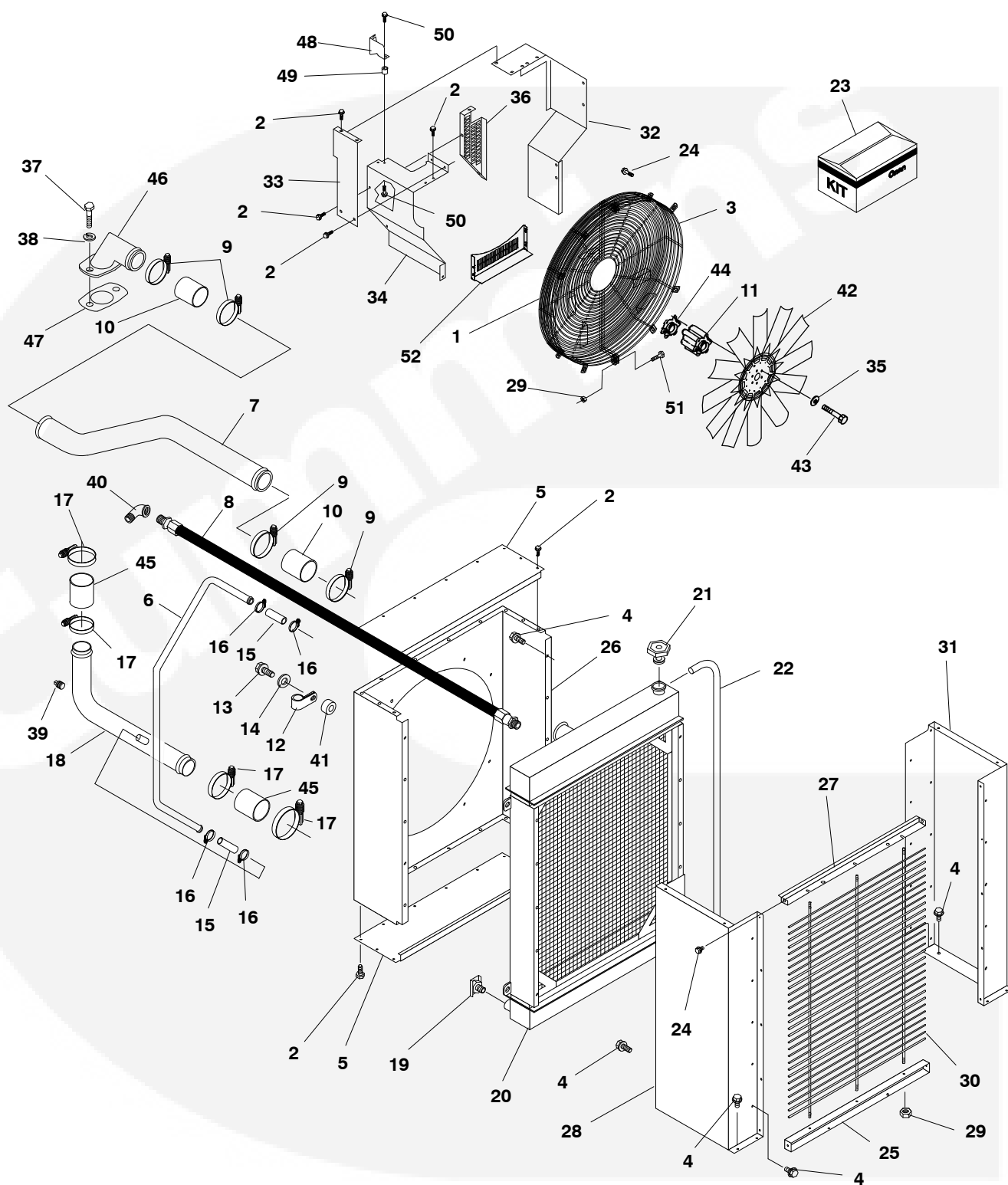
Radiator **DFBF, DFCB, DFCC**



Radiator **DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3521-01	1	Guard, Fan (Right Side) (Top)	24	821-5003-03	14	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
2	821-5002-04	38	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	25	130-4386	1	Support, Grille (Lower)
3	130-3521-02	1	Guard, Fan (Left Side) (Bottom)	26	130-4375	1	Wrapper, Fan Shroud
4			Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	27	130-4387	1	Support, Grille (Upper)
	821-5004-02	34	Sets With 44" Wide Skid	28			Guard, Radiator (Left Side)
	821-5004-02	36	Sets With 50" Wide Skid		130-4384-02	1	Sets With 44" Wide Skid
5	130-4373	2	Shroud, Fan		130-4383-02	1	Sets With 50" Wide Skid
6	130-4376	1	Tube, Radiator Fill	29	870-0550-09	12	Nut, Self-Locking – Hex Head (3/8-16)
7	130-4725	1	Tube, Radiator (Inlet)	30	130-4385	1	Grille
8	501-0551-01	1	Line, Flexible (3/4")	31			Guard, Radiator (Right Side)
9	503-1872-04	4	Clamp, Hose		130-4384-01	1	Sets With 44" Wide Skid
10	503-1379-02	2	Hose, Radiator (2-1/4" ID x 4-1/2")		130-4383-01	1	Sets With 50" Wide Skid
11	130-4407-01	1	Spacer, Fan	32	130-5371-02	1	Guard, Belt (Right Side)
12	518-0548-20	2	Clamp, Hose	33	130-3535	1	Guard, Belt (L-Shaped)
13	800-0052	2	Screw, Cap – Hex Head (3/8-16 x 1-1/2")	34	130-5372-02	1	Guard, Belt (Left Side)
14	526-0029	2	Washer, Flat (3/8")	35	526-0026	6	Washer, Flat (3/8")
15	503-1634	2	Hose, Rubber (1" ID x 4")	36	130-4729	1	Guard, Belt (Back)
16	503-1872-01	4	Clamp, Hose	37	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
17	503-1872-05	4	Clamp, Hose	38	850-0050	2	Washer, Lock – Spring (3/8")
18	130-4379	1	Tube, Radiator (Outlet)	39	505-0130	1	Plug, Pipe – Square Head (3/4")
19	504-0176	1	Valve, Drain (3/8-16)	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
20			Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	41	130-3660-01	2	Spacer
			DFBF	42	130-4534	1	Fan, Radiator (6 Blade)
	130-4355	1	2 Row Core	43	800-0061	6	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
	130-4355-01	1	3 Row Core	44	130-3193	1	Gasket, Spacer
	130-4355-01	1	DFCB	45	503-1414-02	2	Hose, Radiator (2-3/4" ID x 5-3/4")
			DFCC	46	130-3180	1	Connection, Radiator
	130-4355-01	1	3 Row Core	47	130-3184	1	Gasket, Connection
	130-4356	1	4 Row Core	48	130-4671	1	Bracket, Mounting – Belt Guard
21	130-3588	1	Cap, Radiator	49	402-0070	1	Dampener, Vibration
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	51	130-5373-02	1	Guard, Damper
				52	178708	2	Belt, Drive (Cummins)

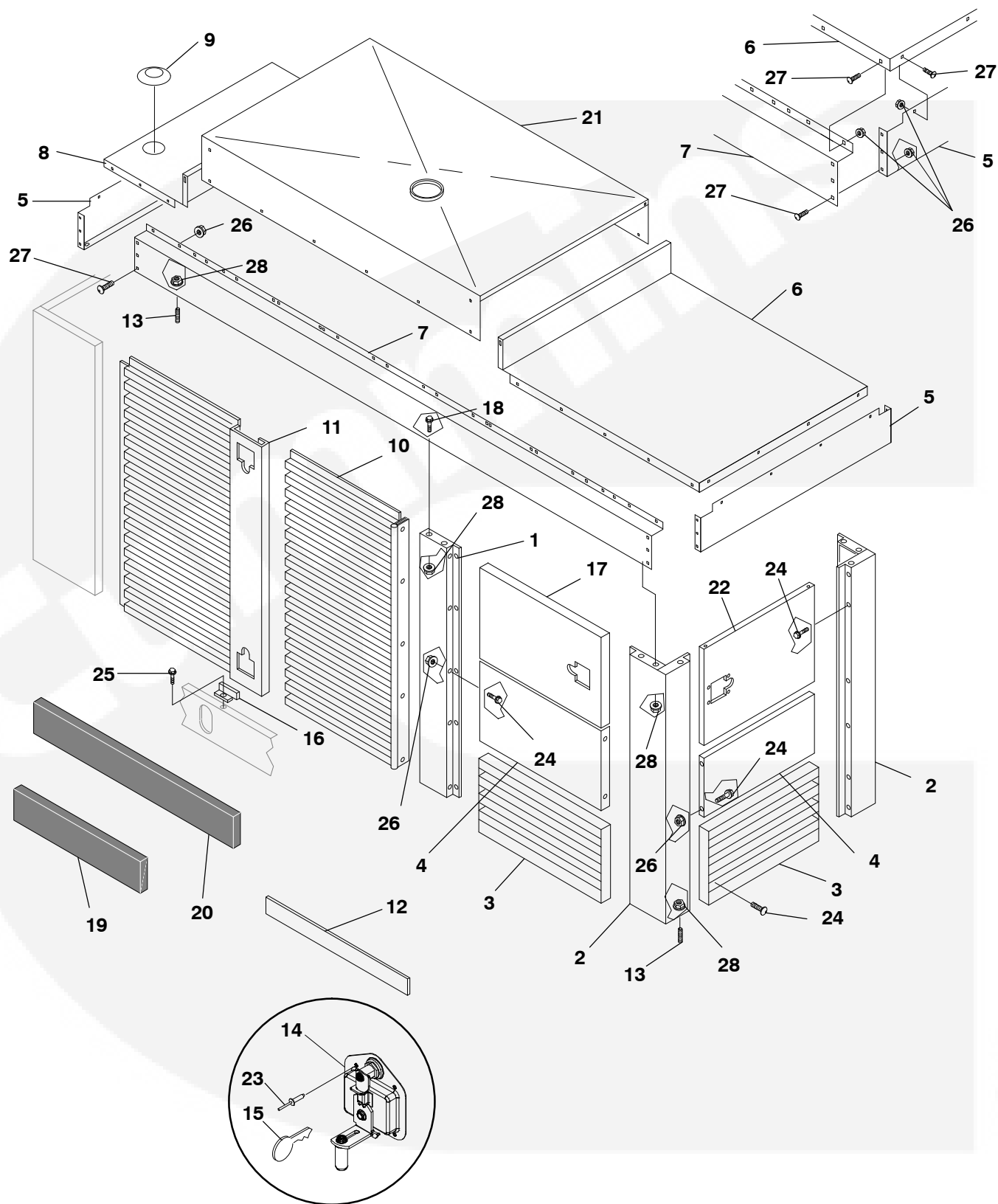
Radiator DFCE



Radiator DFCE

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4406-01	1	Guard, Fan (Left Side)	27	130-4409	1	Support, Grille (Upper)
2	821-5002-04	43	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	28			Guard, Radiator (Left Side) Sets With 44" Wide Skid
3	130-4406-02	1	Guard, Fan (Right Side)		130-4402-02	1	Sets With 44" Wide Skid
4			Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")		130-4401-02	1	Sets With 50" Wide Skid
	821-5004-02	33	Sets With 44" Wide Skid	29	870-0550-09	23	Nut, Self-Locking – Hex Head (3/8–16)
	821-5004-02	35	Sets With 50" Wide Skid	30	130-4399	1	Grille
5	130-4403	2	Shroud, Fan	31			Guard, Radiator (Right Side) Sets With 44" Wide Skid
6	130-4376	1	Tube, Radiator Fill		130-4402-01	1	Sets With 44" Wide Skid
7	130-4725	1	Tube, Radiator (Inlet)		130-4401-01	1	Sets With 50" Wide Skid
8	501-0551-01	1	Line, Flexible (34")	32	130-5371-02	1	Guard, Belt (Right Side)
9	503-1872-04	4	Clamp, Hose	33	130-3535	1	Guard, Belt (L-Shaped)
10	503-1379-02	2	Hose, Radiator (2–1/4" ID x 4–1/2")	34	130-5370-02	1	Guard, Belt (Left Side)
11	130-4407	1	Spacer, Fan	35	850-0050	6	Washer, Lock – Spring (3/8")
12	518-0548-20	2	Clamp, Hose	36	130-4729	1	Guard, Belt (Back)
13	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")	37	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")
14	526-0029	2	Washer, Flat (3/8")	38	850-0050	2	Washer, Lock – Spring (3/8")
15	503-1634	2	Hose, Rubber (1" ID x 4")	39	505-0130	1	Plug, Pipe – Square Head (3/4")
16	503-1872-01	4	Clamp, Hose	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
17	503-1872-05	4	Clamp, Hose	41	130-3660-01	2	Spacer
18	130-4379	1	Tube, Radiator (Outlet)	42	130-4408	1	Fan, Radiator (12 Blade)
19	504-0176	1	Valve, Drain (3/8")	43	800-0061	6	Screw, Cap – Hex Head (3/8–16 x 3–3/4")
20	130-4369	1	Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	44	130-3193	1	Gasket, Spacer
21	130-3588	1	Cap, Radiator – 7 PSI	45	503-1414-02	2	Hose, Radiator (2–3/4" ID x 5–3/4")
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	46	130-3180	1	Connection, Radiator
23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	47	130-3184	1	Gasket, Connection
24	821-5003-03	12	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")	48	130-4671	1	Bracket, Mounting – Belt Guard
25	130-4398	1	Support, Grille (Lower)	49	402-0070	1	Dampener, Vibration
26	130-4400	1	Wrapper, Fan Shroud	50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
				51	821-5004-03	3	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1")
				52	130-5373-02	1	Guard, Damper

Enclosure Standard

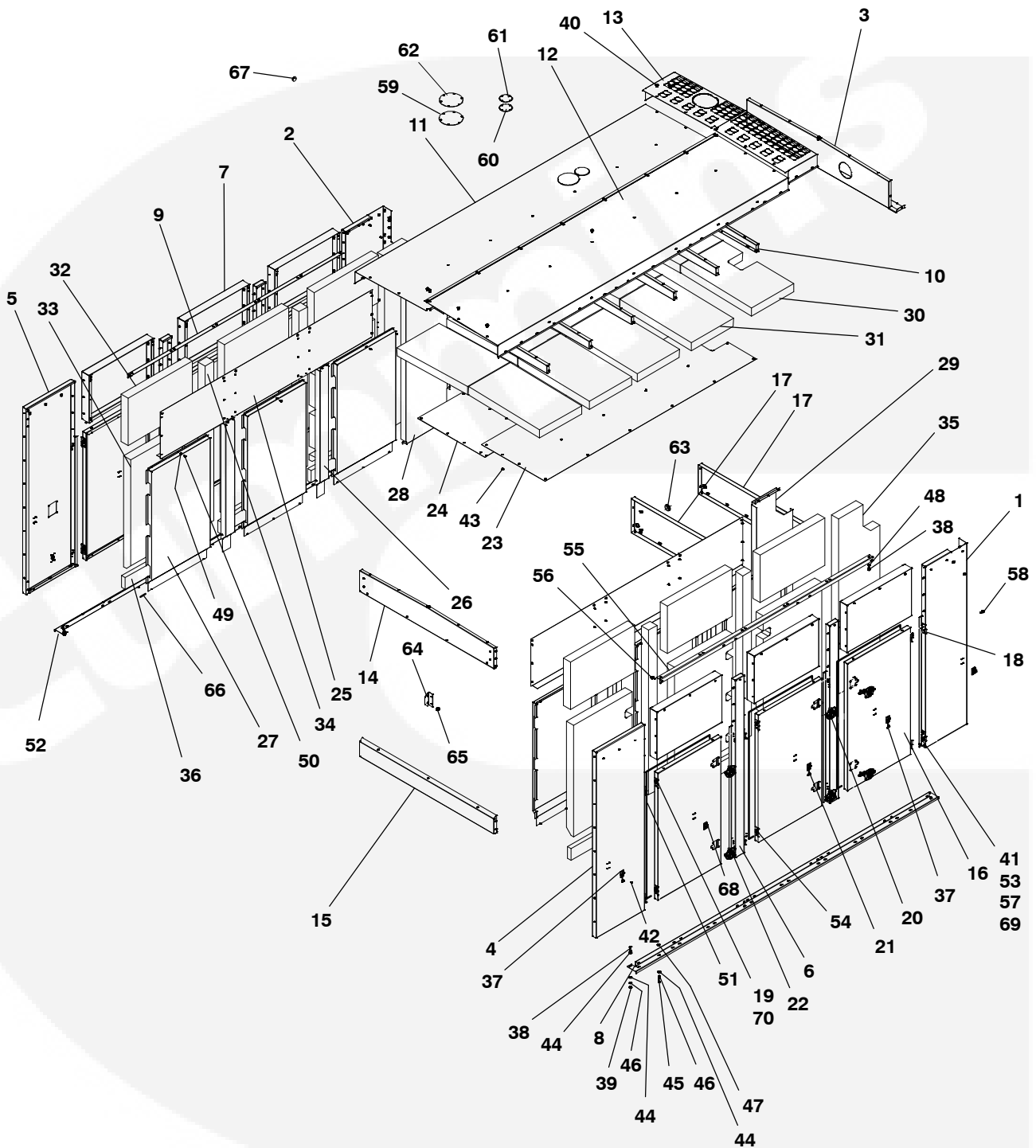


Enclosure Standard

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4110	2	Post – Center	14	406-0972-02	7	Latch (Includes Key)
2	405-4111	2	Post – Rear	15	406-0782	7	Key
3	405-4104	3	Grille	16	405-3980	2	Stop, Door
4	405-4112	3	Panel – Rear and Side	17	405-4107	2	Door – Side
5	405-4117	2	Cap, End – Front and Rear	18	821-5004-02	10	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")
6	405-4115	1	Roof – Rear	19	128-0154-06	1	Insulation, Foam (24" x 5-3/4" x 1/4")
7	405-4118-01	2	Rail – Side	20	128-0154-05	4	Insulation, Foam (40" x 7-13/16" x 1/4")
8	405-5198	1	Roof – Front	21	405-4114-02	1	Roof – Center
9	517-0245	1	Plug	22	405-4106	1	Door, Control
10	405-4108	2	Door – Side – Without Opening For Door Handles (Right Side Center Location And Left Side Front Location)	23	818-0231-02	28	Rivet, Pop
11	405-4109	2	Door – Side – With Opening For Door Handles (Right Side Front Location And Left Side Center Location)	24	821-5003-03	49	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
12	895-0308	–	Tape, Sealing – Bulk (1/8" Thk x 1" Wide) (Order By The Foot – 6 Feet Required)	25	815-0236	4	Screw, Hex Head – Thread Forming (5/16-18 x 5/8")
13	520-0544	14	Stud (3/8-16 x 1-3/16")	26	870-0550-07	52	Nut, Locking – Hex (5/16-18)
				27	816-0098	52	Bolt, Carriage (5/16-18 x 5/8")
				28	870-0550-09	24	Nut, Locking – Hex (3/8-16)



Enclosure Steel

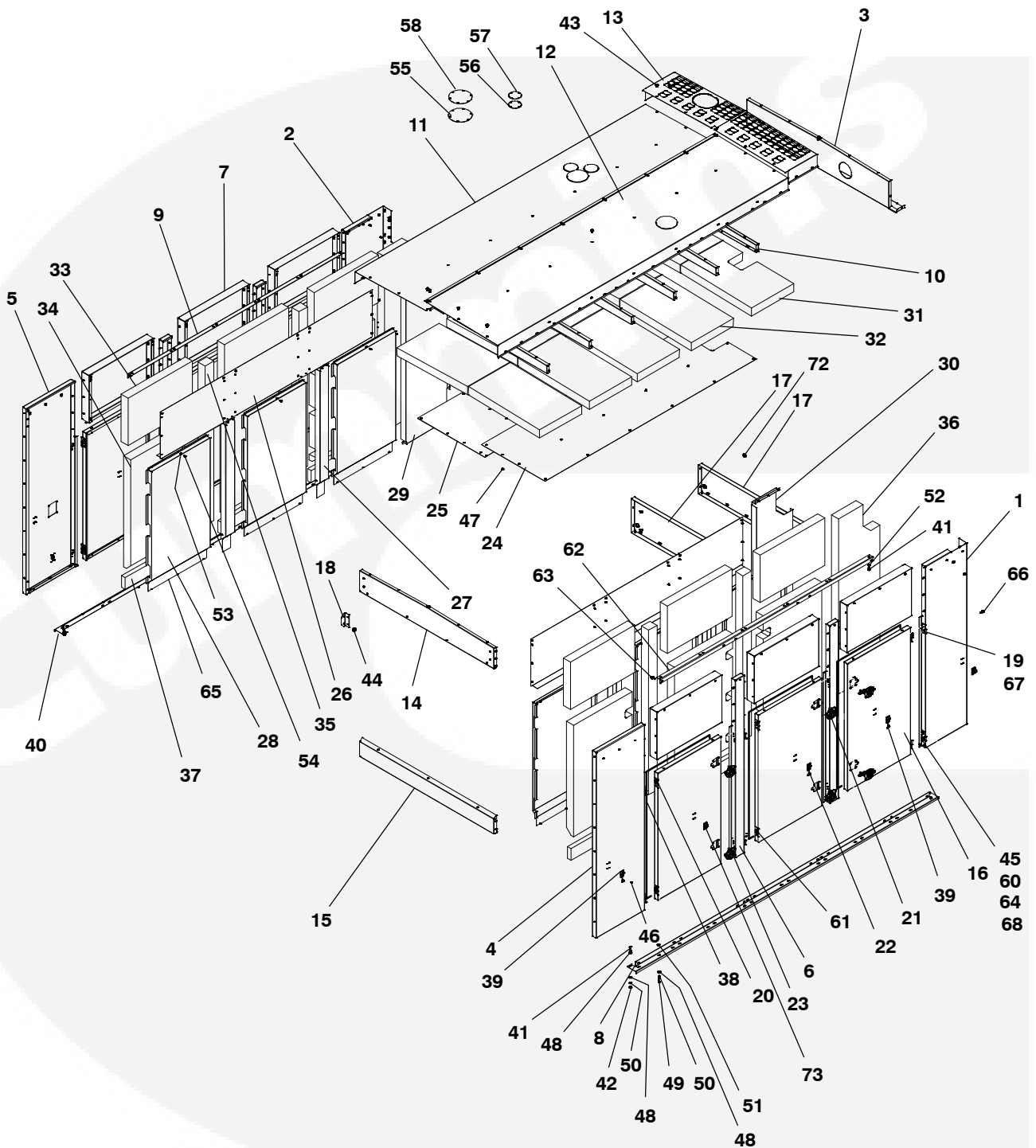


Enclosure Steel

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	41	818-1157	96	Rivet, Dome Head – Blind (1/4)
2	405-7500-02	1	Post, Enclosure – LH Rear	42			Rivet, Pop
3	155-4134-02	1	Shield, Heat – Exhaust		818-0231-02	64	Without 150 MPH Wind Rating
4	405-7737-02	1	Panel, Enclosure – RH Front		818-0231-02	88	With 150 MPH Wind Rating – Not Insulated
5	405-7738-02	1	Panel, Enclosure – LH Front		818-0231-02	144	With 150 MPH Wind Rating – Insulated
6	405-7739-02	4	Post, Enclosure – Center	43	818-0231-06	60	* Rivet, Pop
7	405-7741-02	6	Crossmember, Panel – Upper	44	526-0249-01	40	Washer, Flat (7/16)
8	405-7577-02	1	Stiffener, Enclosure	45	800-2089	26	Screw, Cap – Hex Head (M10 x 1.5 x 40)
9	405-7742-02	2	Stiffener, Roof	46	850-2010	32	Washer, Lock – Split (M10)
10	405-7740-02	6	Stiffener, Enclosure – Truss	47	860-2009	14	Nut, Hex (M10 x 1.5)
11	405-7735-04	1	Panel, Roof – LH	48	526-2106	12	Washer, Flat (M8)
12	405-7734-04	1	Panel, Roof – RH	49	853-2006	6	* Washer, Lock – W/ET (M6)
13	405-7736-02	1	Panel, Roof – Rear	50	821-6002-03	6	* Screw, Hex Head (M6 x 1 x 16)
14	405-7743-02	1	Panel, Duct – Upper	51	405-7812-01	6	Seal, Door
15	405-7744-02	1	Panel, Duct – Lower	52	405-7577-04	1	Stiffener, Enclosure
16			Door, Enclosure	53	406-0970-03	3	Hinge
	405-7574-02	6	Without 150 MPH Wind Rating	54	406-0970-04	3	Hinge
	405-7574-04	6	With 150 MPH Wind Rating	55	405-7863-02	2	Edge, Drip – Enclosure
17	405-7604-02	1	Crossmember, Panel – Rear	56	821-6006-01	40	Screw, Hex Head (M6 x 1.0 x 16)
18	406-0970-01	3	Hinge	57	815-0181	18	Screw, Hex – Thread Forming – W/ET (#10-32 x .50)
19	406-0970-02	3	Hinge	58	406-0929	18	Clip, Panel
20			Latch	59	405-7882	1	Gasket, Enclosure
	406-0972-02	6	Without 150 MPH Wind Rating	60	405-7883	2	Gasket, Enclosure
	406-0972-02	12	With 150 MPH Wind Rating	61	405-7885-02	2	Cover, Enclosure
21	406-1049-01	3	Catch, Door	62	405-7884-02	1	Cover, Enclosure
22	517-0364	60	Plug, Hole	63	508-1102	1	Grommet, Rubber
23	405-7745	1	* Retainer, Insulation – Roof	64	405-7756-02	2	Bracket, Duct – Stiffener – With 150 MPH Wind Rating
24	405-7746	1	* Retainer, Insulation – Roof	65	870-2055	4	Nut, Locking – With 150 MPH Wind Rating
25	405-7616	2	* Retainer, Insulation – Side	66	508-1042-09	12	* Edging
26	405-7617	4	* Retainer, Insulation – Post	67	517-0350	1	Plug, Hole
27	405-7618	6	* Retainer, Insulation – Door	68	406-1076	4	Stop, Door
28	405-7620	1	* Retainer, Insulation – Post	69	406-0970-05	6	Hinge
29	405-7637	1	* Retainer, Insulation – Post	70	406-0970-06	6	Hinge
30	405-7626	1	* Insulation, Roof				
31	405-6000-08	4	* Insulation, Panel – Roof				
32	405-6000-09	6	* Insulation, Panel – Cross				
33	405-7628	6	* Insulation, Door				
34	405-6000-10	4	* Insulation, Panel – Post				
35	405-7630	2	* Insulation, Enclosure – Post				
36	405-6000-11	6	* Insulation, Panel, Door				
37	406-1049-02	3	Catch, Door				
38	821-6003-02	78	Screw, Hex Head (M8 x 1.25 x 20)				
39	870-2065-03	12	Nut, Hex – Flange				
40			Screw, Hex Head (M8 x 1.25 x 20)				
	821-6007-02	90	Without 150 MPH Wind Rating				
	821-6007-02	98	With 150 MPH Wind Rating				

* – Insulated Enclosures

Enclosure Aluminum

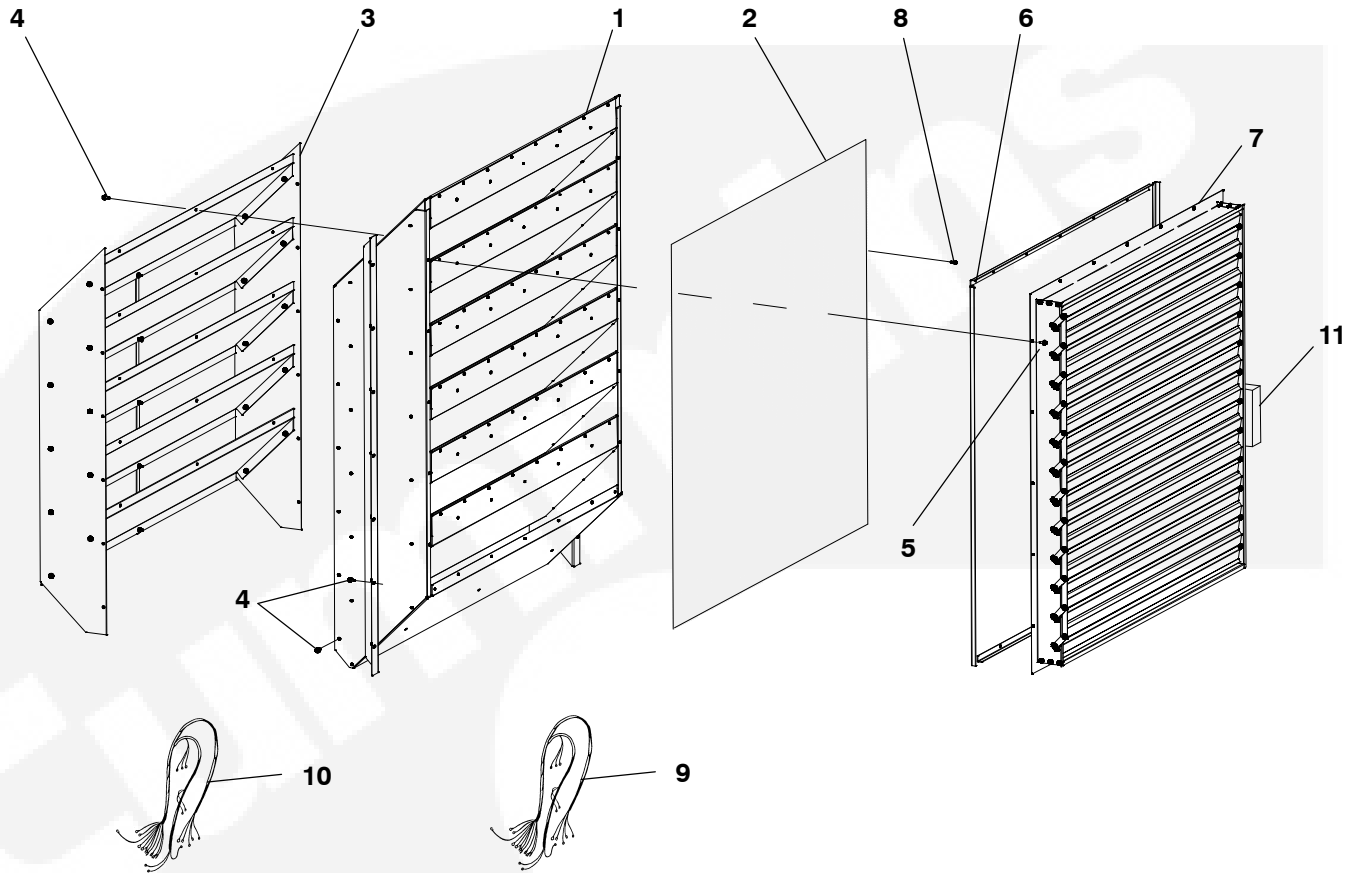


Enclosure Aluminum

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	60	* 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	405-7843	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 Head – Thread Cutting – W/ET (10-32 x .50)
27	405-7617	4	* Retainer, Insulation – Post				Edging
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	508-1042-09	12	Hinge
31	405-7626	1	* Insulation, Roof	66	406-0929	18	Clinch, Stud (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)				

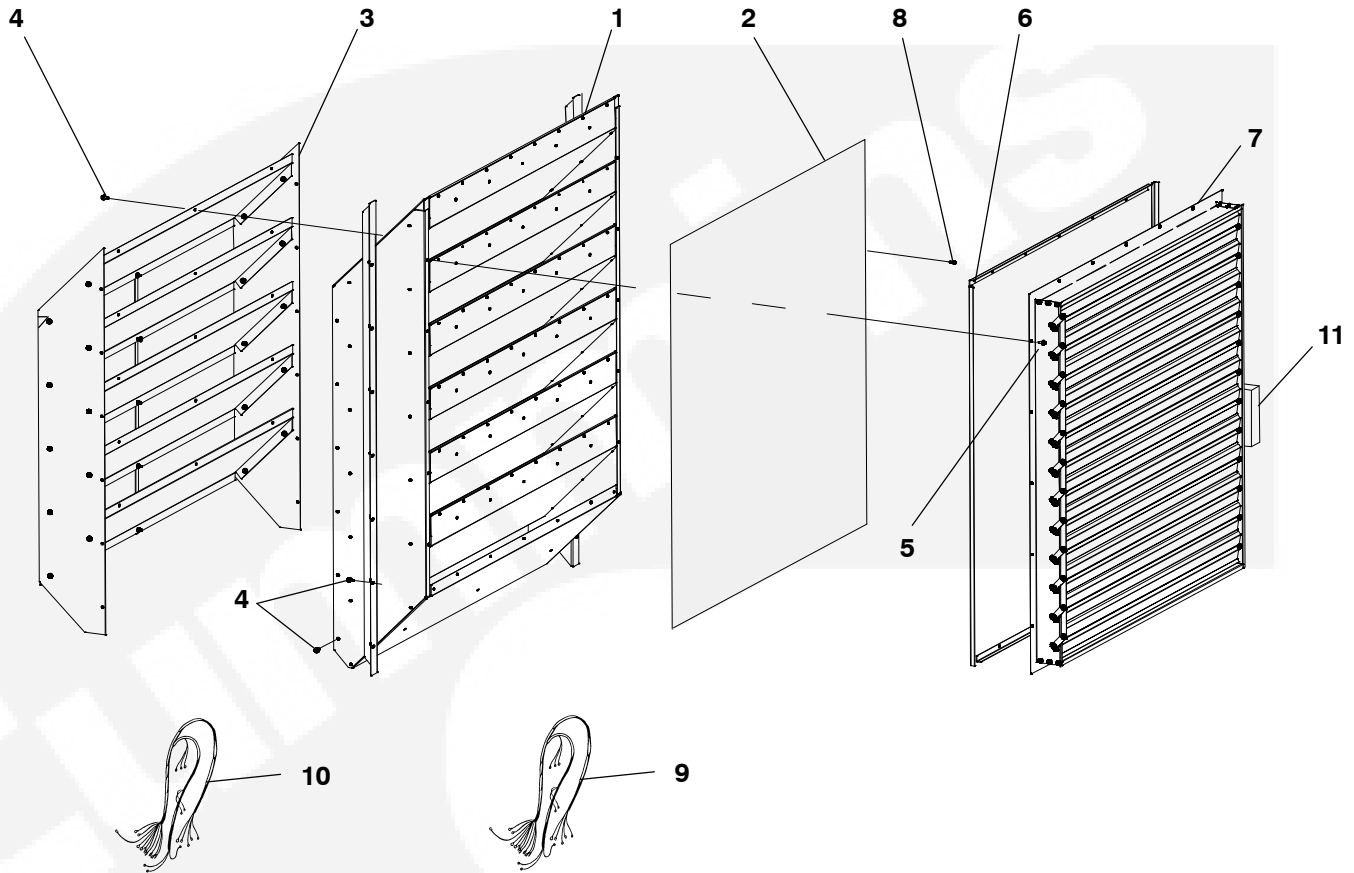
* – Insulated Enclosures

Louver Assembly Steel Air Inlet



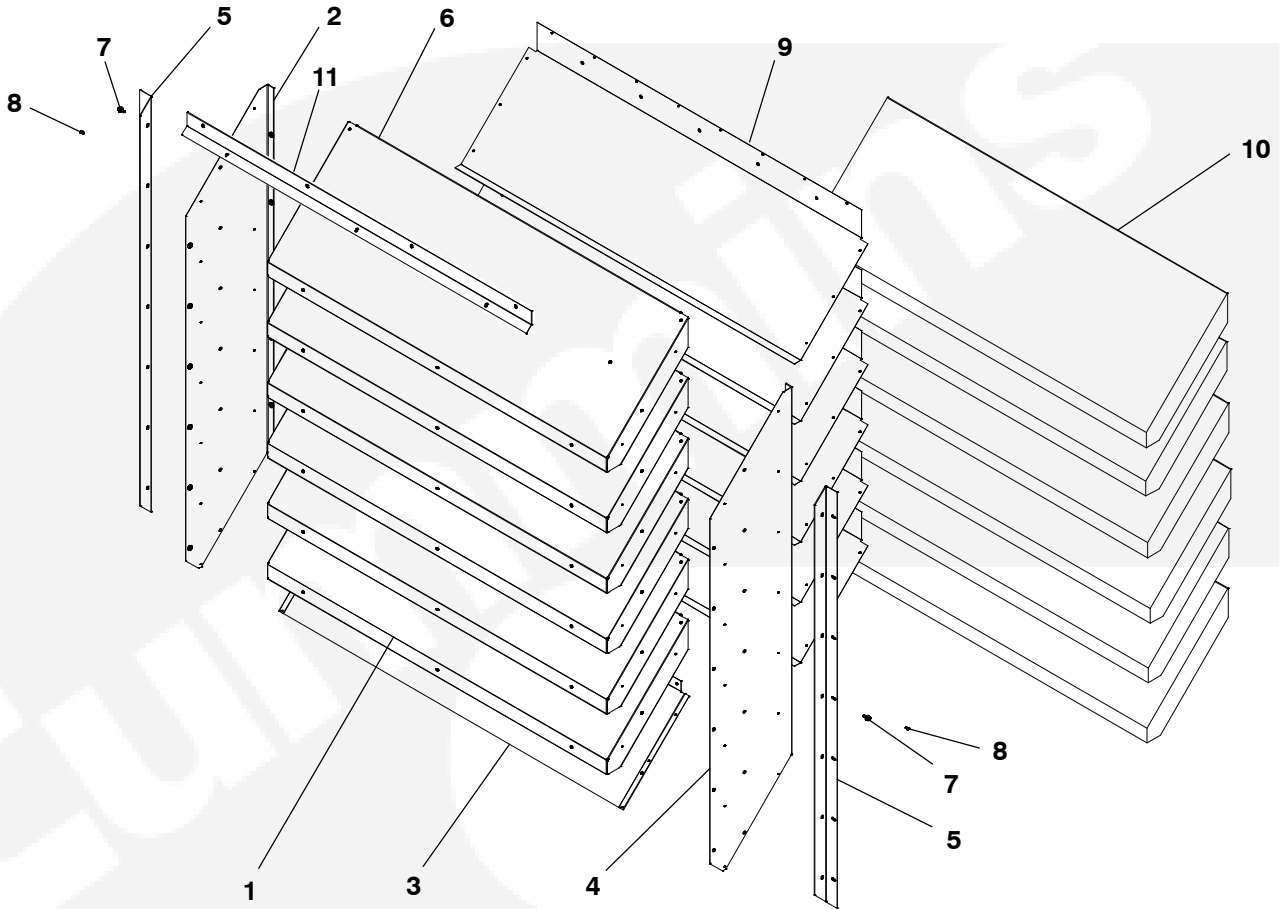
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)
	405-7631-01	1	Weather Louvers	6	405-7606-02	4	Bracket, Grill
	405-7631-02	1	Acoustic Louvers	7			Louver - Damper
2	405-7569	1	Grill, Enclosure - Mesh		405-7539-01	1	Spring Open - AC
3	405-7633	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	23	Without Rain Hood	9	338-4295-01	1	Harness, Control
	821-6007-02	50	With Rain Hood	10	338-4295-03	1	Harness, Motor
				11	405-7754	1	Actuator, Louver (24V)

Louver Assembly Aluminum Air Inlet



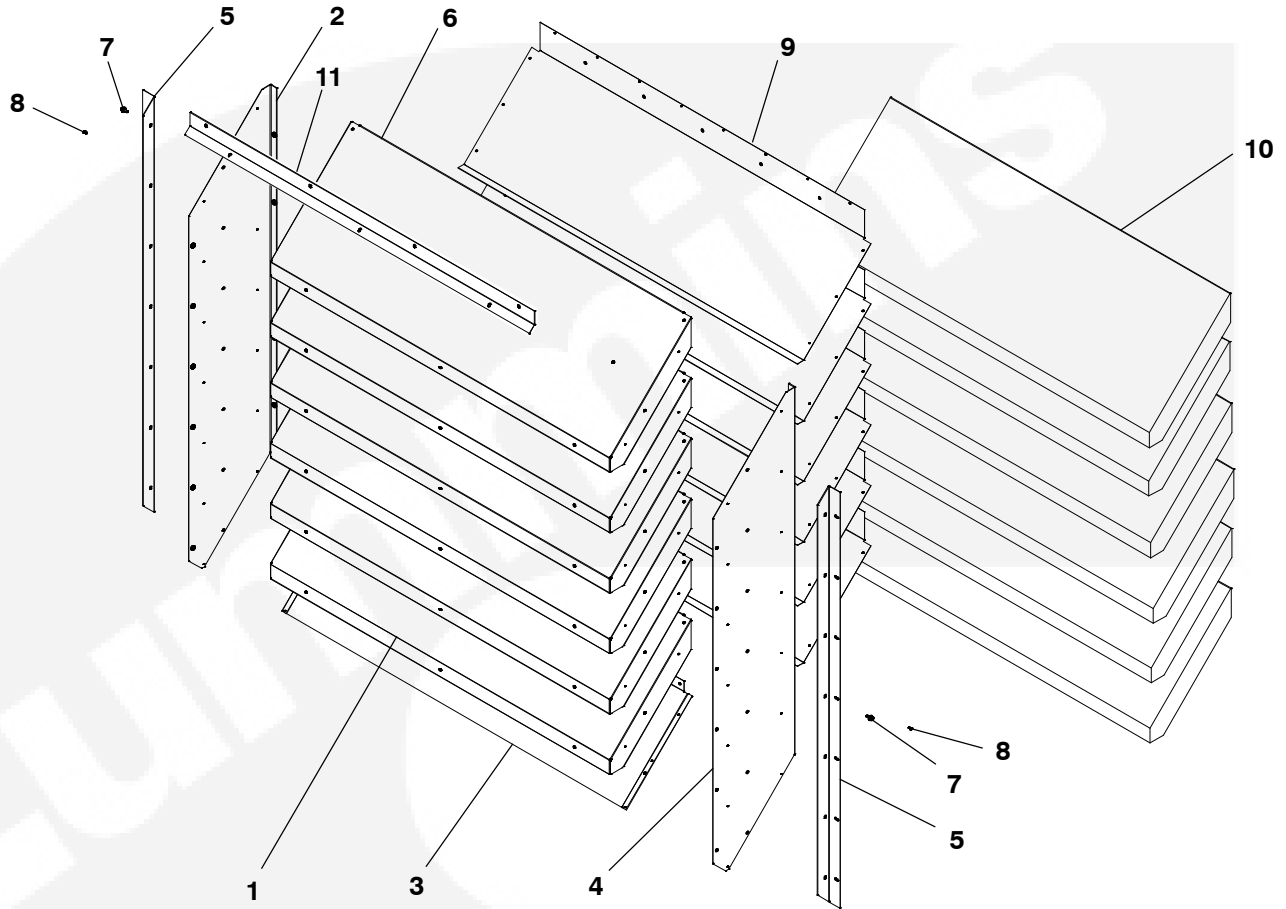
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Louver Assembly (See Separate Page for Components)	5	821-6003-02	20	Screw, Hex Head (M8 x 1.25 x 20)
	405-7720-01	1	Weather Louvers	6	405-7728	4	Bracket, Grill
	405-7720-02	1	Acoustic Louvers	7			Louver - Damper
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



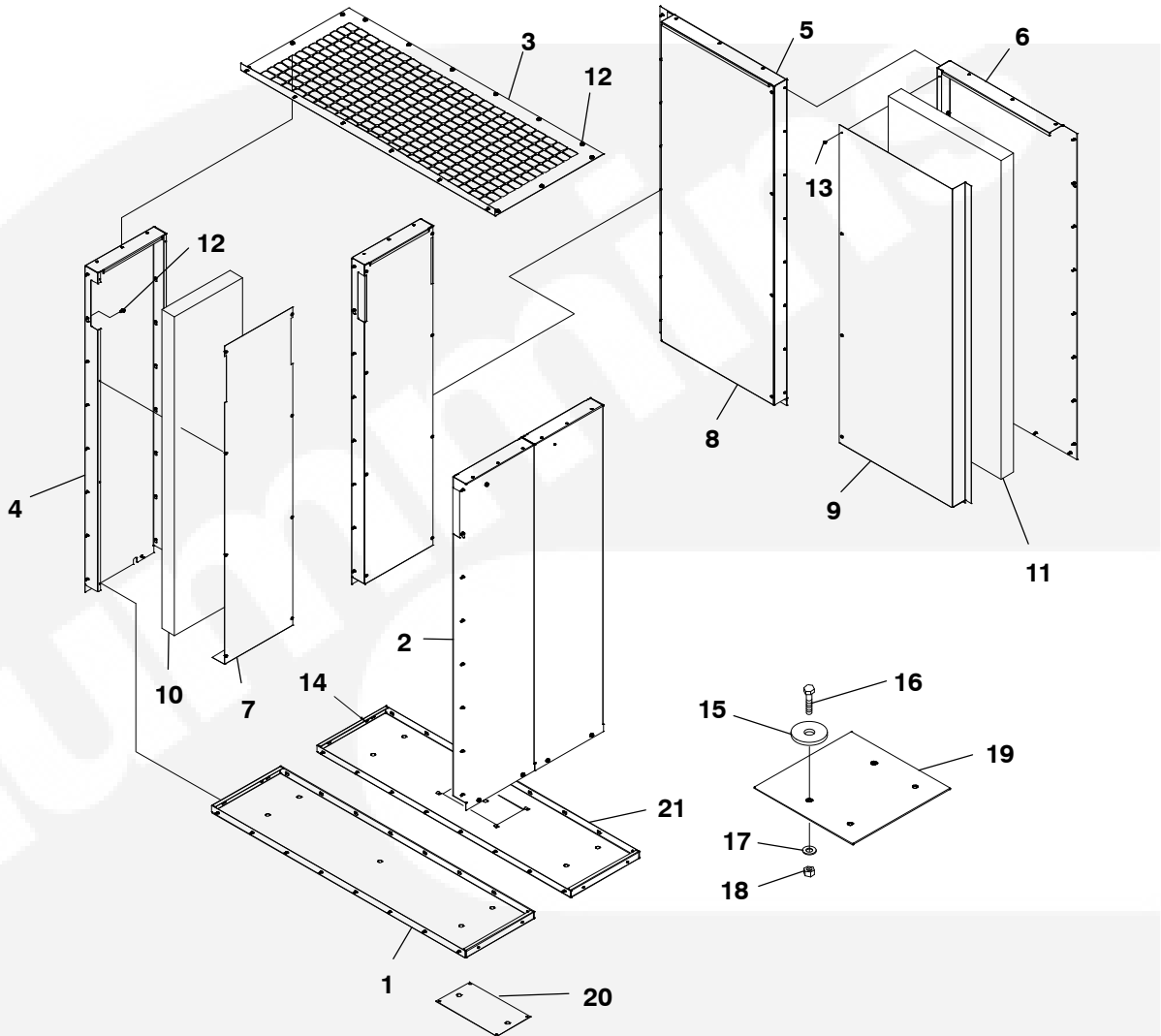
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7534-02	5	Louver - Upper	8	818-0231-02	26	Rivet, Pop
2	405-7553-02	1	Panel, Duct - Right		818-0231-02	110	With Weather Louver
3	405-7557-02	1	Louver - Bottom				With Acoustic Louver
4	405-7554-02	1	Panel, Duct - Left	9	405-7535	6	Louver - Acoustic
5	405-7558-02	2	Bracket, Duct	10	405-6000-15	6	Insulation, Panel - With
6	405-7534-04	1	Louver - Upper				Acoustic Louver
7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)	11	405-7755-02	1	Panel, Duct (Filler)

Louver Assembly Aluminum Weather and Acoustic



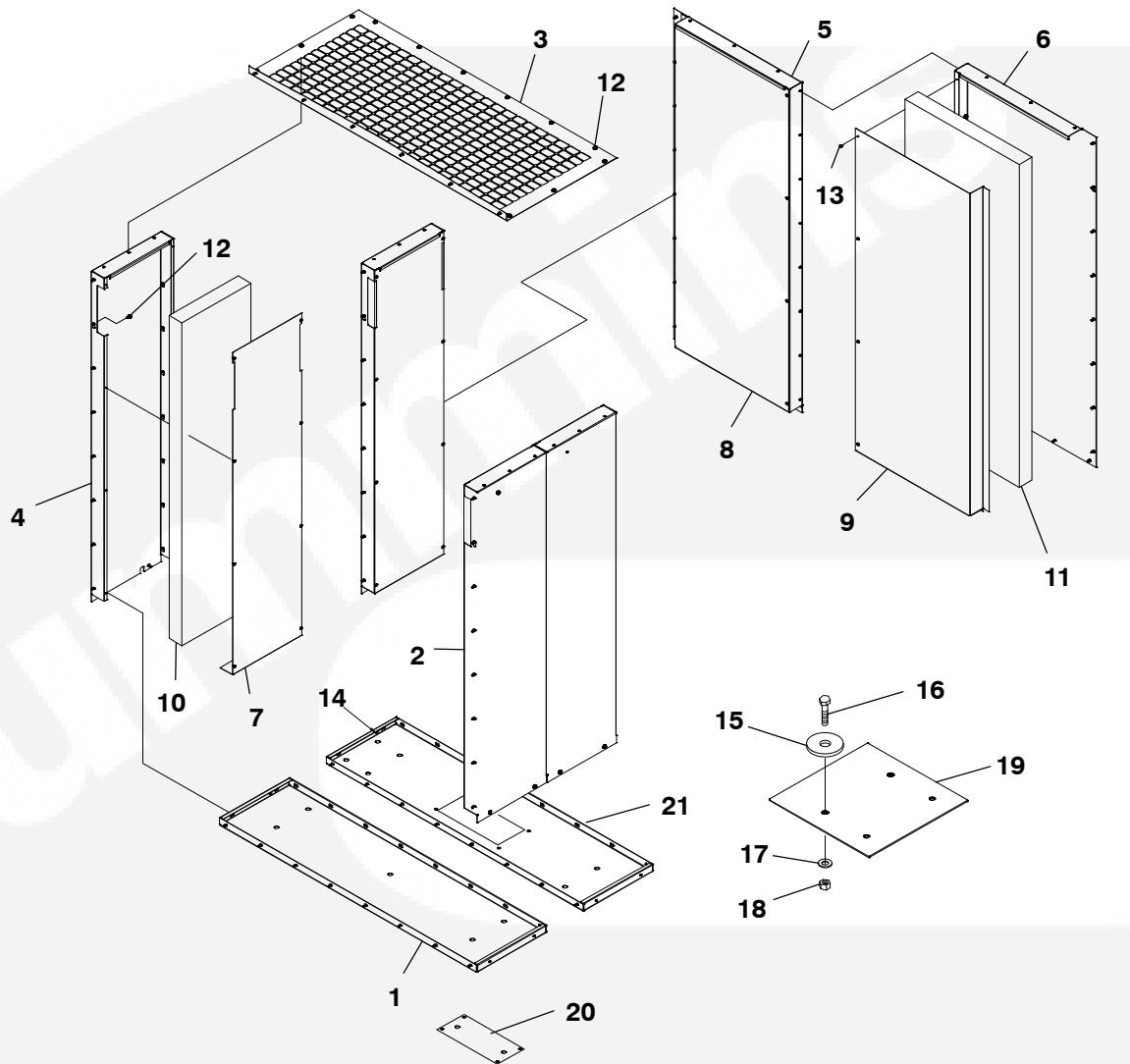
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7721-01	5	Louver – Upper	8			Rivet, Pop
2	405-7722	1	Panel, Duct – Right		818-0231-01	28	With Weather Louver
3	405-7724	1	Louver – Bottom		818-0231-01	112	With Acoustic Louver
4	405-7723	1	Panel, Duct – Left	9	405-7535	6	Louver – Acoustic
5	405-7725	2	Bracket, Duct	10	405-6000-15	6	Insulation, Panel – With
6	405-7721-02	1	Louver – Upper				Acoustic Louver
7	821-6007-02	17	Screw, Hex Head (M8 x 1.25 x 20)	11	405-7800	1	Panel, Duct (Filler)

Enclosure Steel Air Discharge – Vertical



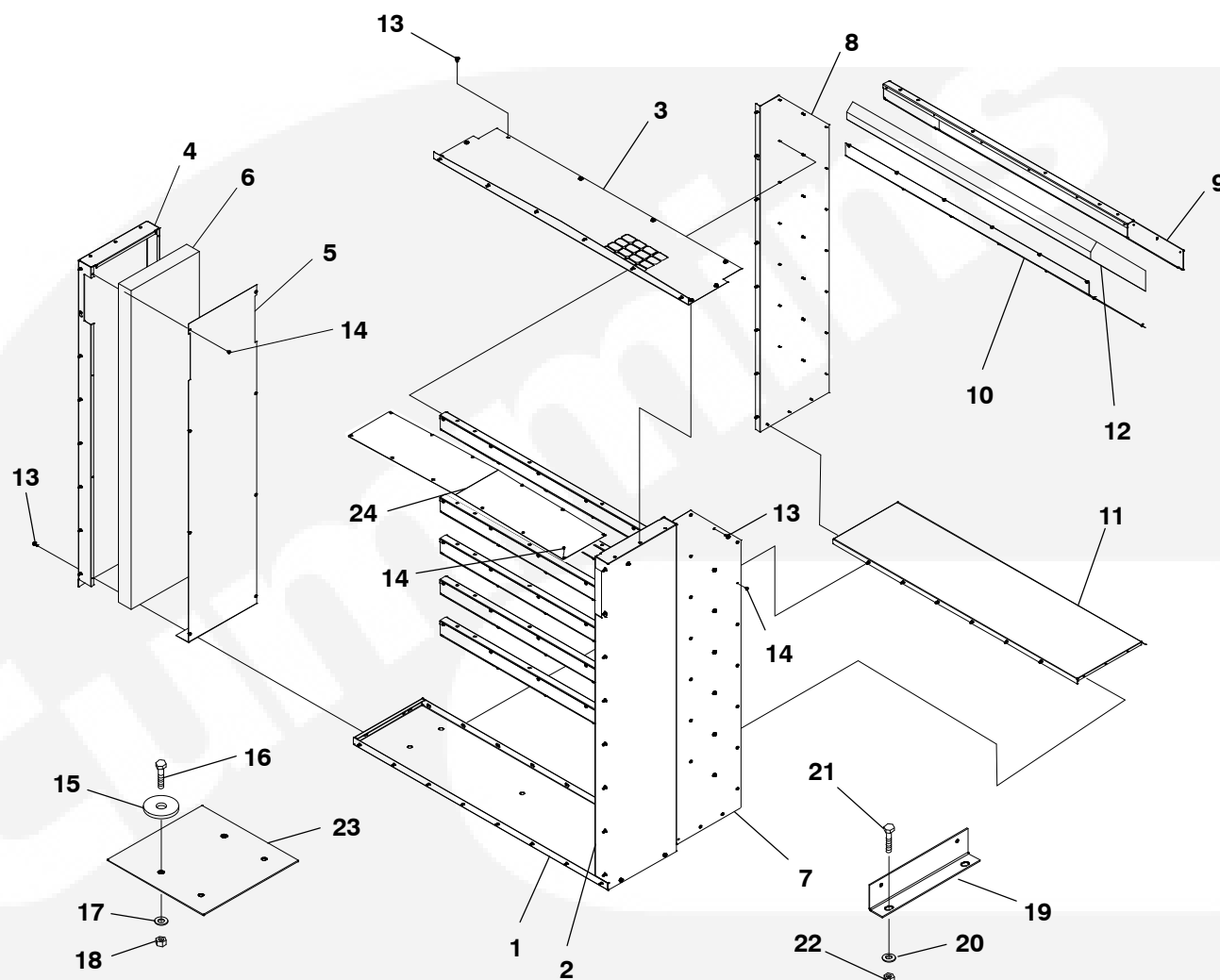
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	1	Panel, Enclosure – Bottom	13	818-0231-06	40	Rivet, Pop (3/16)
2	405-7587-02	2	Panel, Enclosure	14	517-0136-01	1	Plug, Hole
3	405-7538-02	1	Grill, Enclosure	15	526-0172	4	Washer, Flat (1/2)
4	405-7579-02	2	Panel, Enclosure – Left	16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)
5	405-7540-02	1	Panel, Enclosure	17	526-2140	4	Washer, Flat (M12)
6	405-7580-02	1	Panel, Enclosure – Right	18	860-2010	4	Nut, Hex (M12)
7	405-7581	4	Retainer, Insulation	19	155-4138-02	2	Bracket, Muffler
8	405-7582	1	Retainer, Insulation	20	405-9023-02	1	Panel, Access
9	405-7583	1	Retainer, Insulation – Right	21	405-9842-02	1	Panel, Enclosure – Bottom
10	405-6000-13	4	Insulation, Panel – Side				
11	405-6000-14	2	Insulation, Panel – End				
12	821-6007-02	112	Screw, Hex Head (M8 x 1.25 x 20)				

Enclosure Aluminum Air Discharge – Vertical



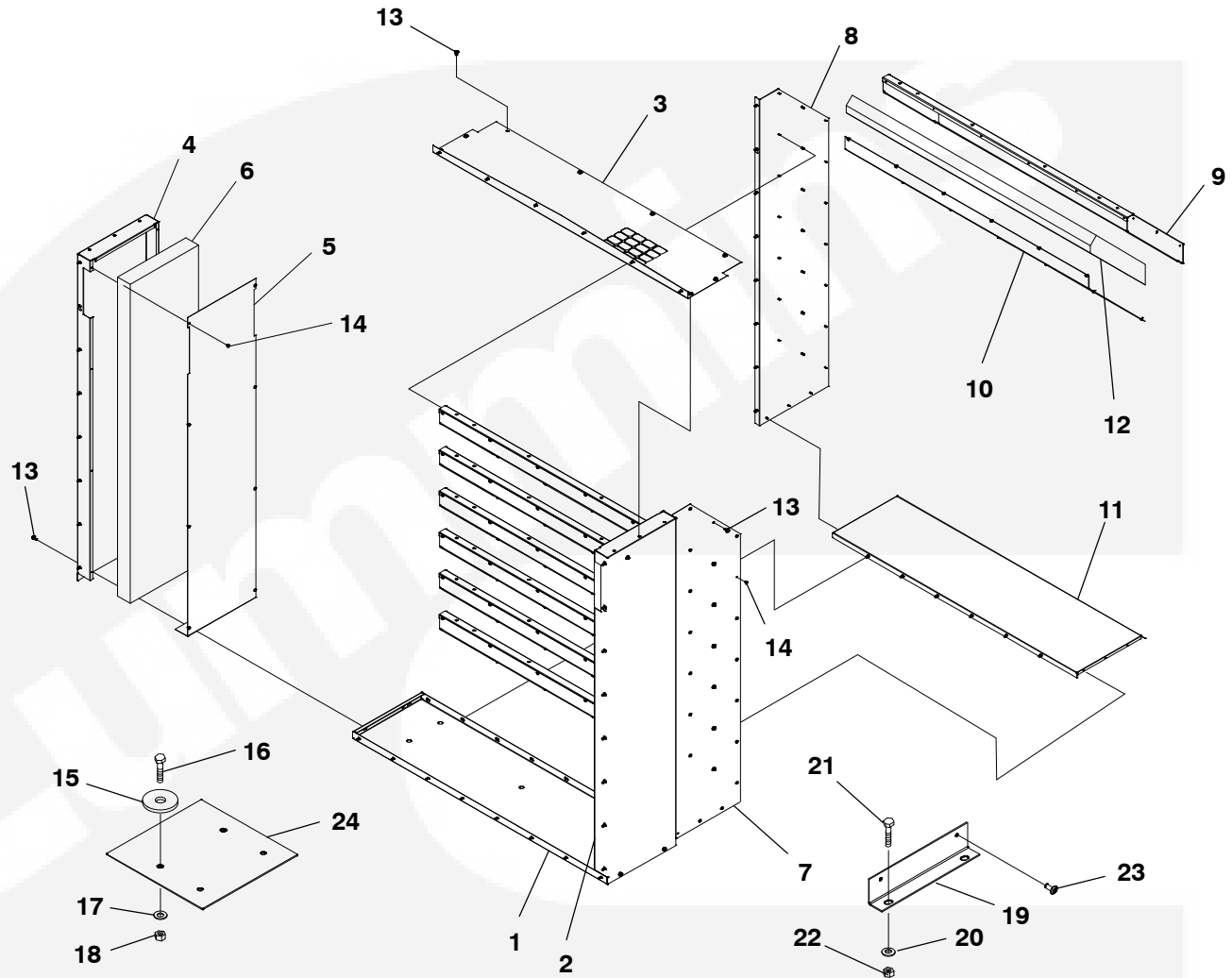
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7761	1	Panel, Enclosure – Bottom	12	821-6007-02	112	Screw, Hex Head (M8 x 1.25 x 20)
2	405-7762	2	Panel, Enclosure	13	818-0231-06	40	Rivet, Pop (3/16)
3	405-7763	1	Grill, Enclosure	14	517-0136-01	1	Plug, Hole (.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	20	404-0006	1	Panel, Access
10	405-6000-13	4	Insulation, Panel – Side	21	405-9843	1	Panel, Enclosure
11	405-6000-14	2	Insulation, Panel – End				

Enclosure Steel Air Discharge – Horizontal



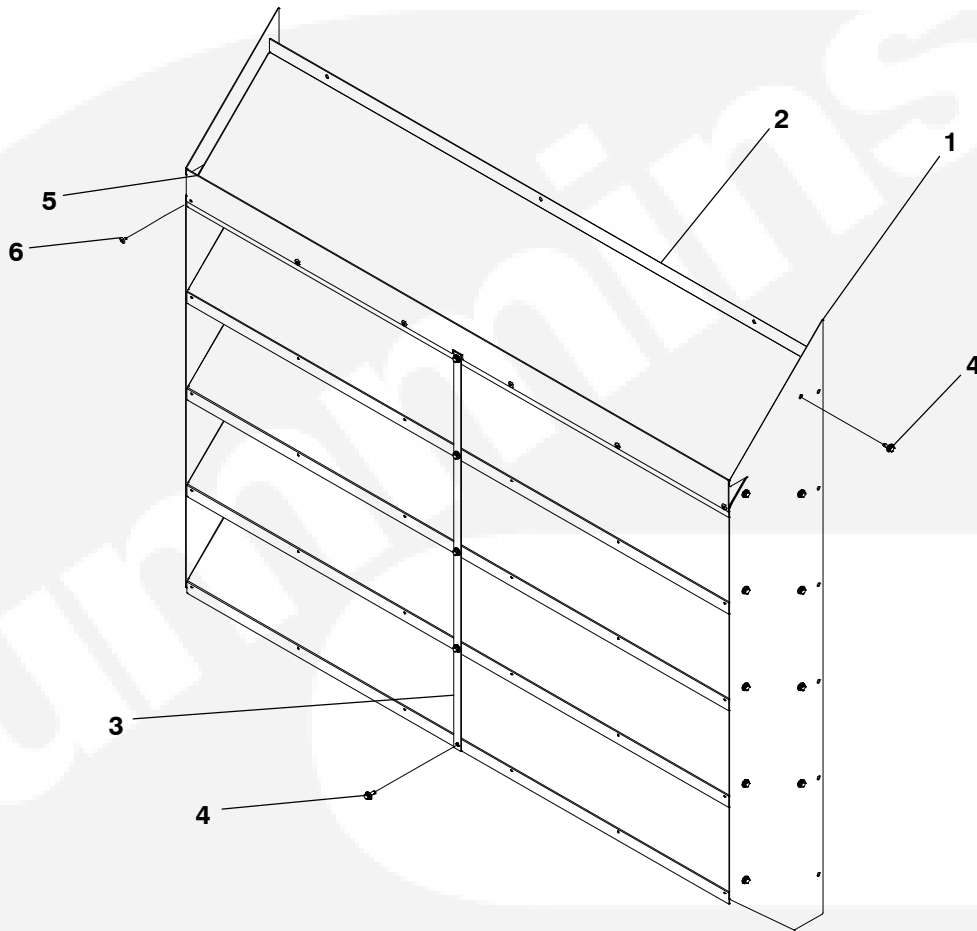
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7537-02	1	Panel, Enclosure – Bottom	14	818-0231-06	134	Rivet, Pop (3/16)
2	405-7587-02	1	Panel, Enclosure	15	526-0172	4	Washer, Flat (1/2)
3	405-7588-02	1	Grill, Enclosure	16	800-2114	4	Screw, Cap – Hex Head (M12 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 – Muffler Vent
12	405-6000-12	7	Insulation, Panel – Louver				
13	821-6007-02	74	Screw, Hex Head (M8 x 1.25 x 20)				

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, Muffler
12	405-6000-12	7	Insulation, Panel – Louver				
13	821-6007-02	74	Screw, Hex Head (M8 x 1.25 x 20)				

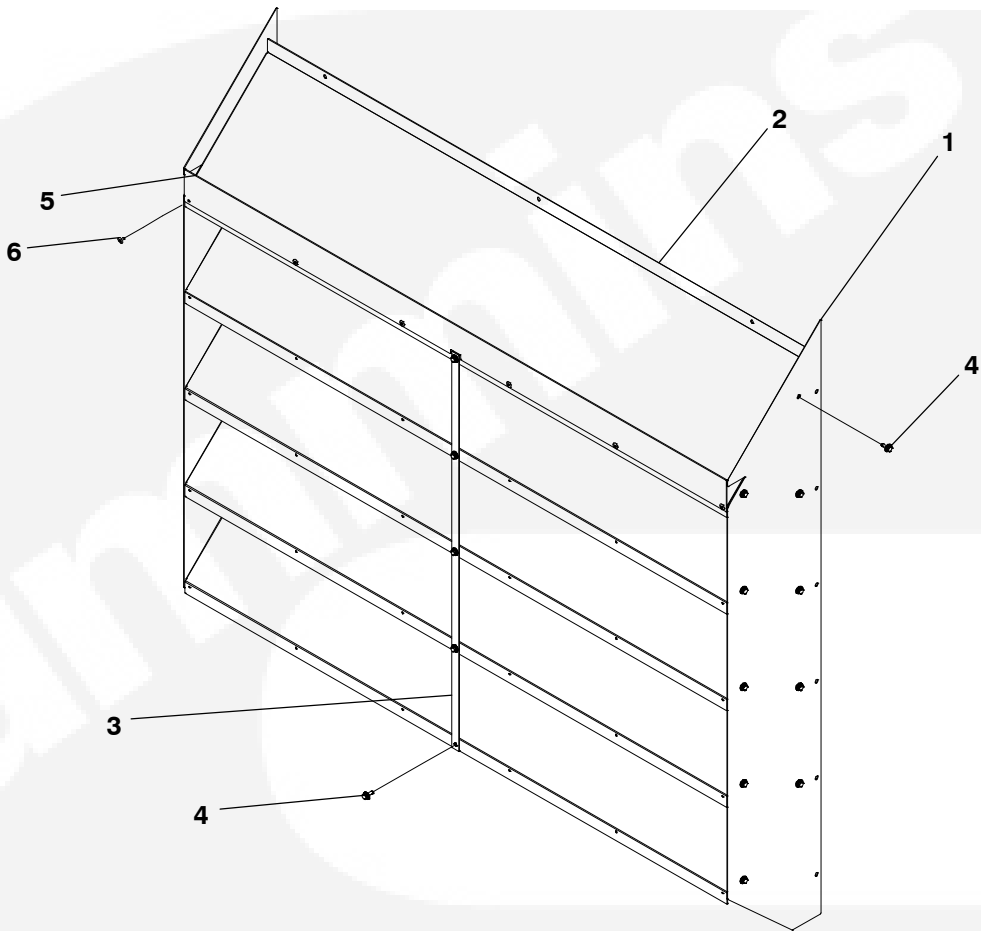
Louver Assembly Steel Rain Hood



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)

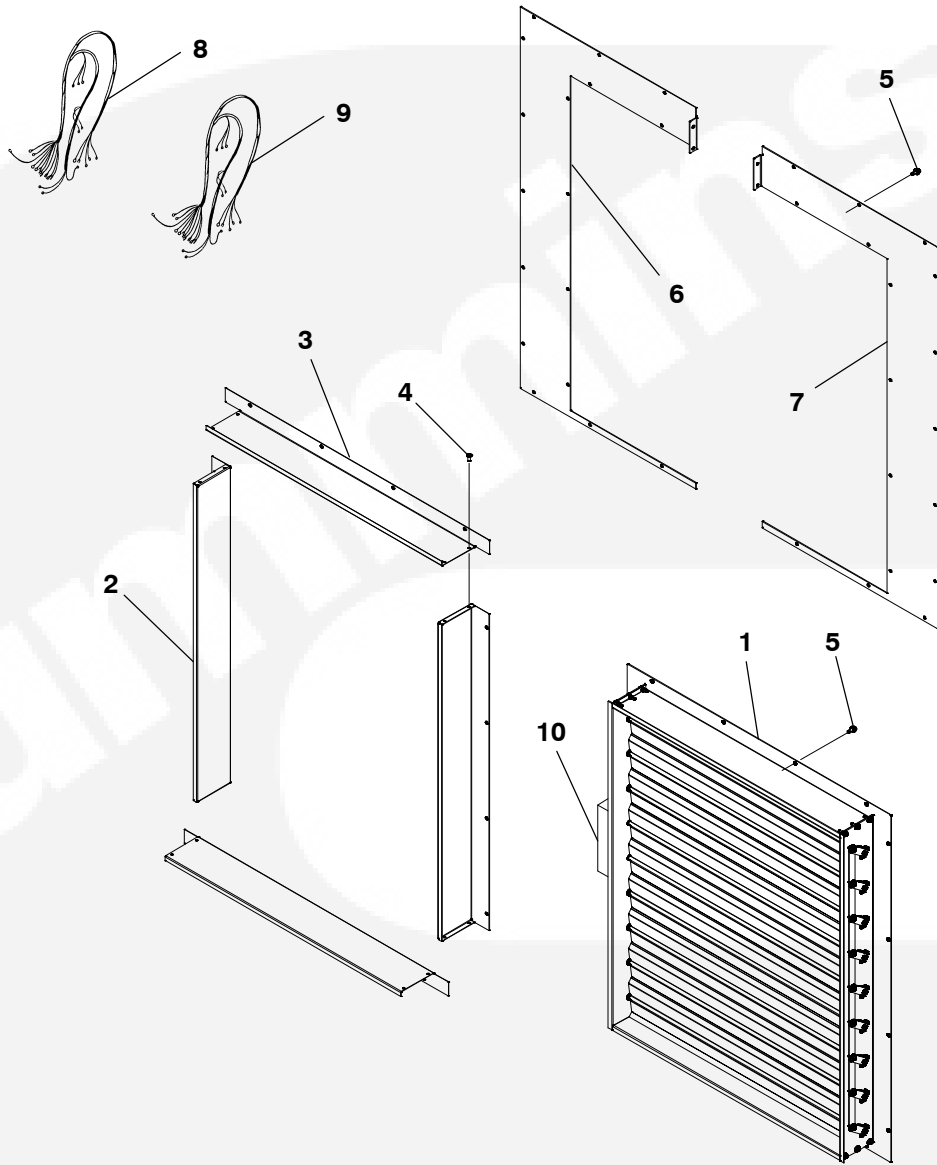
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	405-7810-02	1	Louver - Rain Guide
6	818-0231-06	6	Rivet, Pop (3/16)

**Louver Assembly
Aluminum Rain Hood**



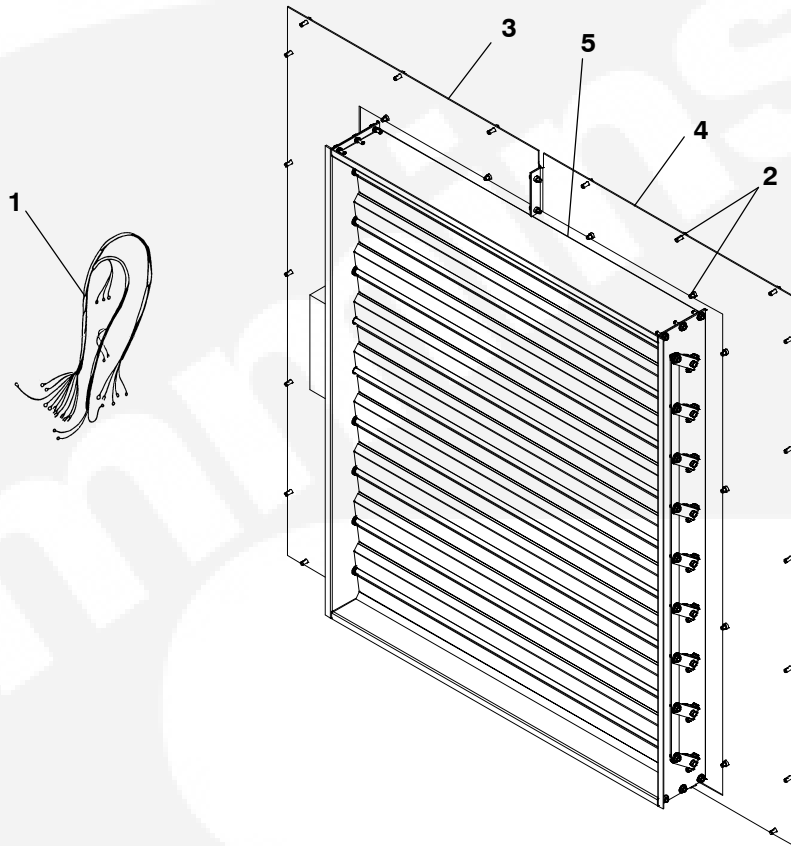
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7730	2	Panel, Duct	5	405-7825	1	Louver – Rain Guide
2	405-7727	5	Louver	6	818-0231-02	6	Rivet, Pop
3	405-7729	1	Bracket, Duct				
4	821-6007-02	25	Screw, Hex Head (M8 x 1.25 x 20)				

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)	5	821-6007-02	36	Screw, Hex Head (M8 x 1.25 x 20)
	405-7503-01	1	Spring Open	6	405-7596-02	1	Panel, Duct - Left
	405-7503-02	1	Spring Closed	7	405-7531-02	1	Panel, Duct - Right
2	405-7599-02	2	Duct, Air - Side	8	338-4295-02	1	Harness, Control
3	405-7600-02	2	Duct, Air - Top, Bottom	9	338-4295-03	1	Harness, Motor
4	818-0231-01	8	Rivet, Pop	10	405-7754	1	Actuator, Louver (24V)

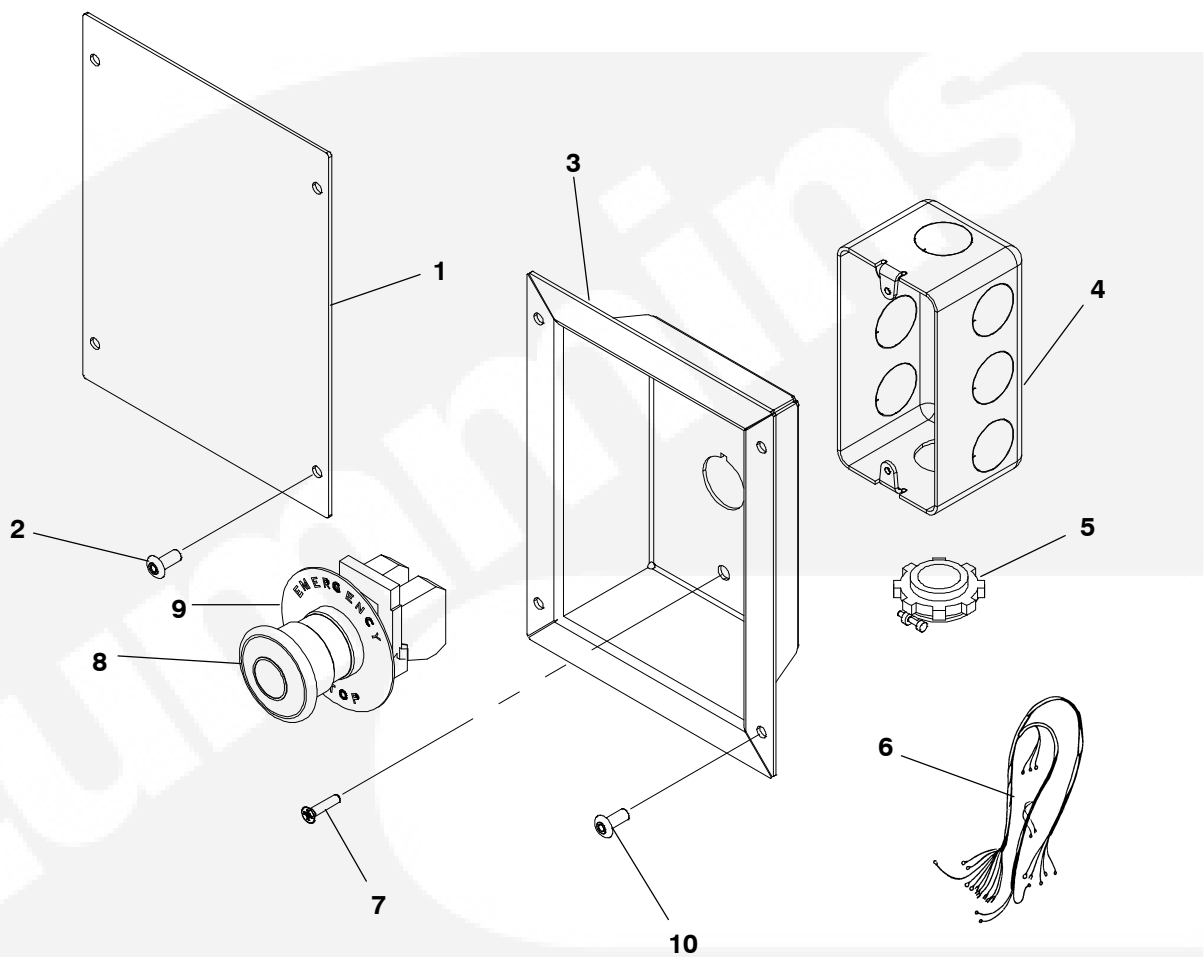
Louver Assembly Aluminum Enclosure



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4295-02	1	Motor, Harness – With Louver To Exhaust and Intake Louvers	3	405-7924	1	Panel, Duct – Left
	338-4295-03	1	24VAC Actuator Power From Transformer	4	405-7925	1	Panel, Duct – Right
2	821-6007-02	36	Screw, Hex Head (M8 x 1.25 x 20)	5	405-7503-01	1	Louver Spring Open
					405-7503-02	1	Spring Closed

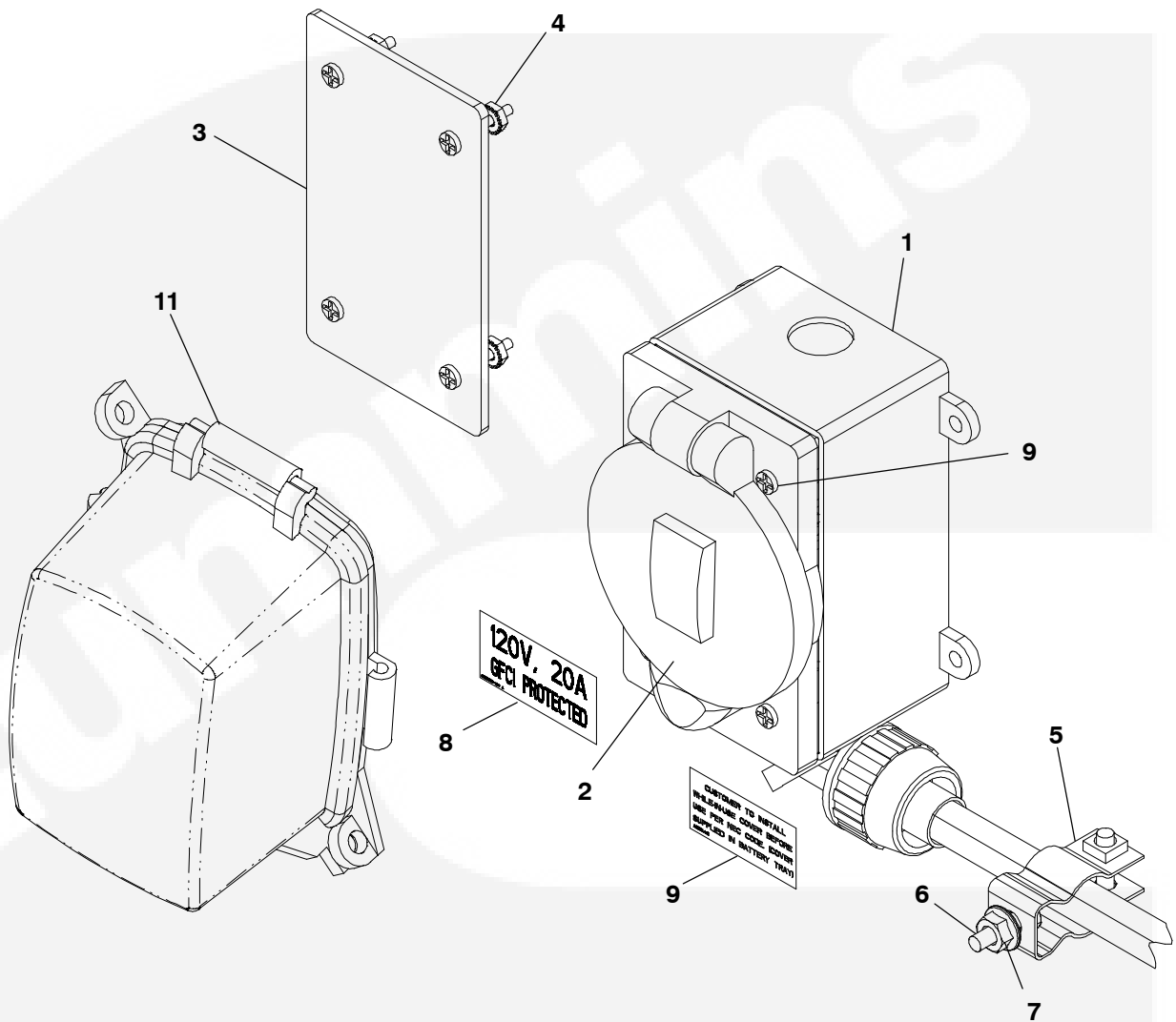


Emergency Stop Switch



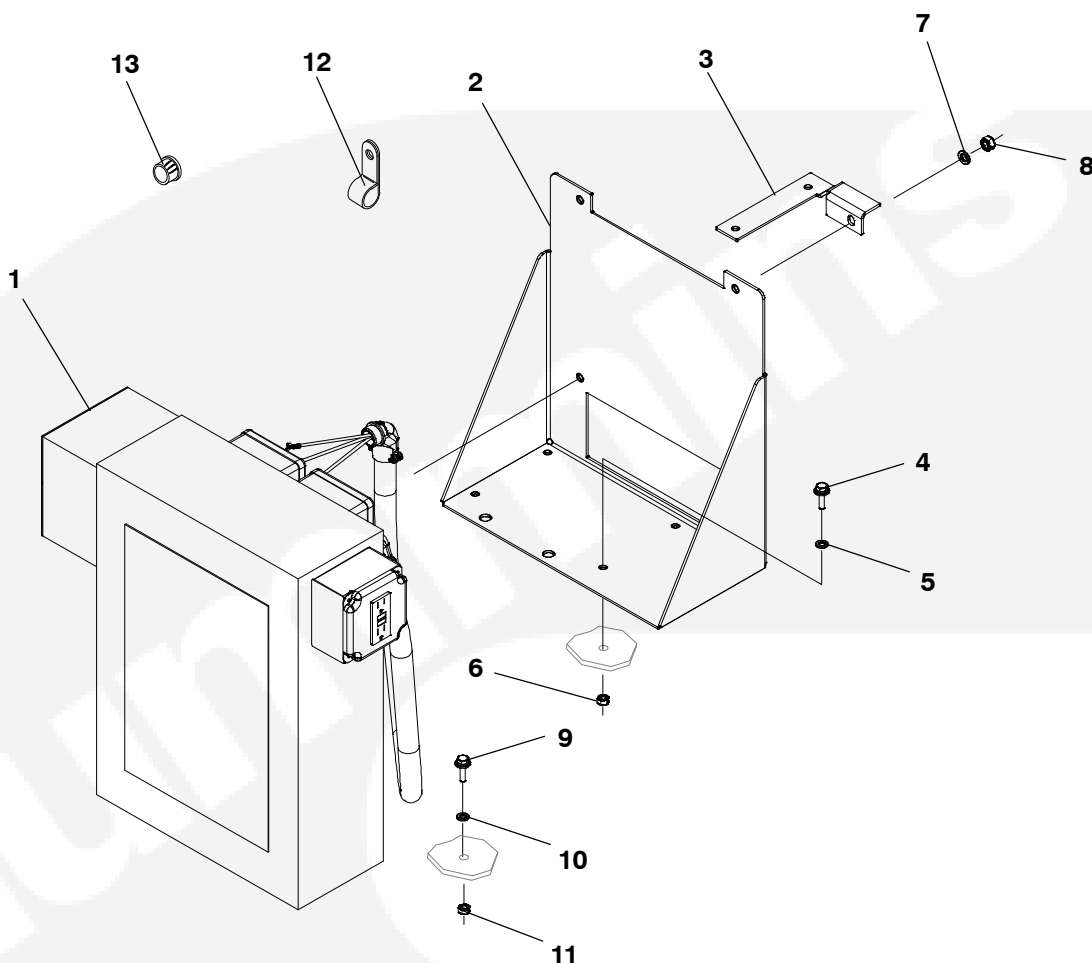
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Enclosure - Adapter	6	338-4293	1	Harness, Switch - E-Stop
	405-7658-02	1	Steel	7	815-0918	2	Screw, Machine - Flat Head - Cross Recessed (#6-32 x .62)
	405-7997	1	Aluminum				
2	818-0231-02	4	Rivet, Pop	8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

External Receptacle



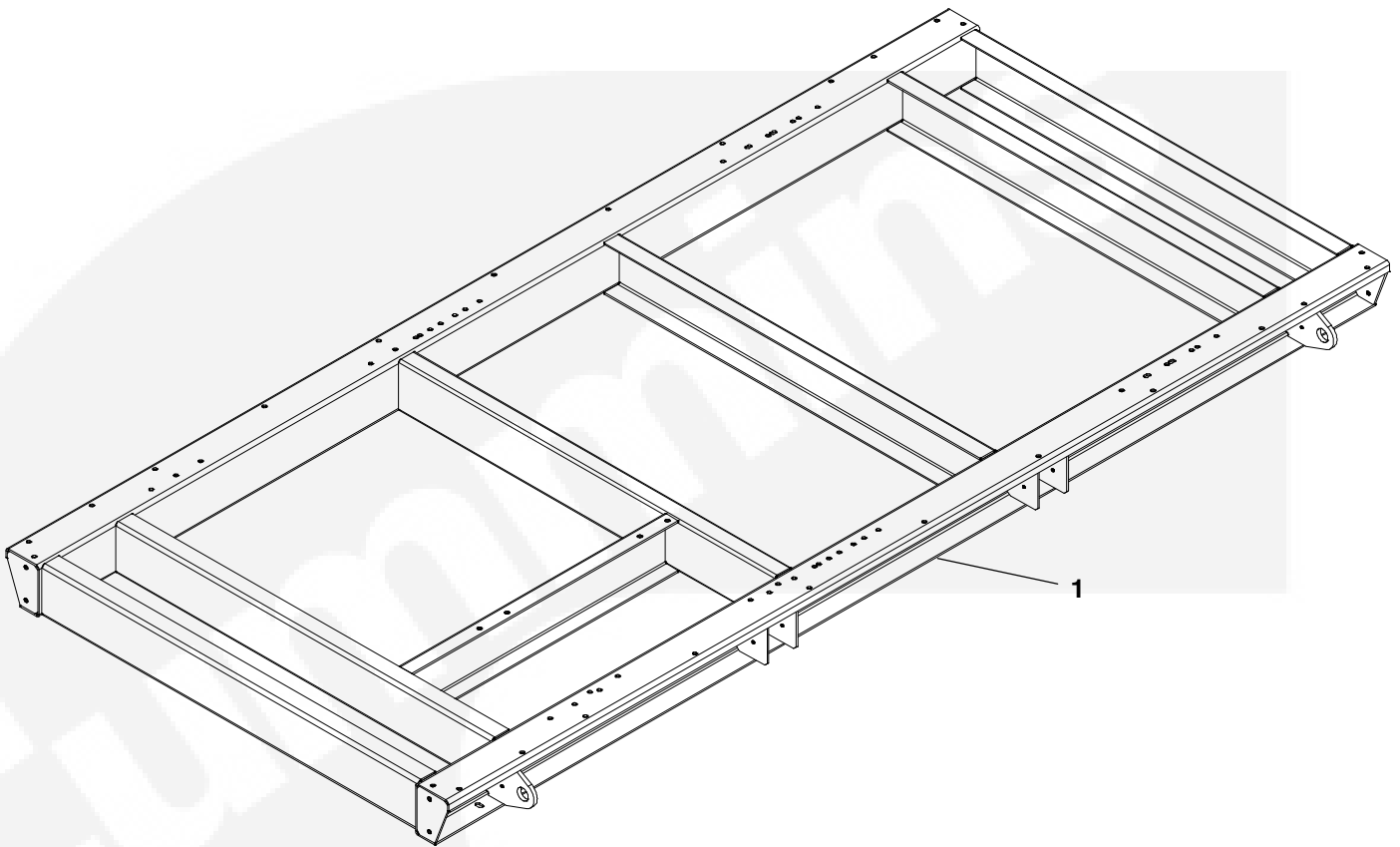
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	323-2102-01	1	Receptacle	7	870-2054	3	Nut, Locking - Flange (M6 x 1)
2	330-0157	1	Cover, Receptacle	8	098-8185	1	Label, Information
3	330-0158	1	Cover, Outlet Box - Blank	9	812-0068	4	Screw, Hex (#6-32 x 1.0)
4	870-0183	4	Nut, Hex - W/ET (#6-32)	10	A030A421	1	Label, Information
5	331-0602	6	Clamp, Conduit	11	A030A412	1	Cover, Receptacle
6	821-6002-03	6	Screw, Hex Head (M6 x 1 x 16)				

Distribution Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-2197	1	Breaker, Circuit – Assembly	9	800-2115	2	Screw, Cap – Hex Head (M12 x 1.75 x 30)
2	319-5100-02	1	Bracket, Circuit Breaker	10	526-2140	4	Washer, Flat (M12)
3	319-5124-02	1	Bracket, Circuit Breaker	11	860-2010	2	Nut, Hex (M12)
4	821-6003-03	2	Screw, Hex Head (M8 x 1.25 x 25)	12	518-0548-15	2	Clamp, Loop – With Coolant Heater
5	526-2101	2	Washer, Flat (M8)	13	517-0138-02	1	Plug, Hole – Without Coolant Heater
6	860-2008	2	Nut, Hex (M8 x 1.25)				
7	850-2010	4	Washer, Lock – Split (M10)				
8	860-2009	4	Nut, Hex (M10 x 1.5)				

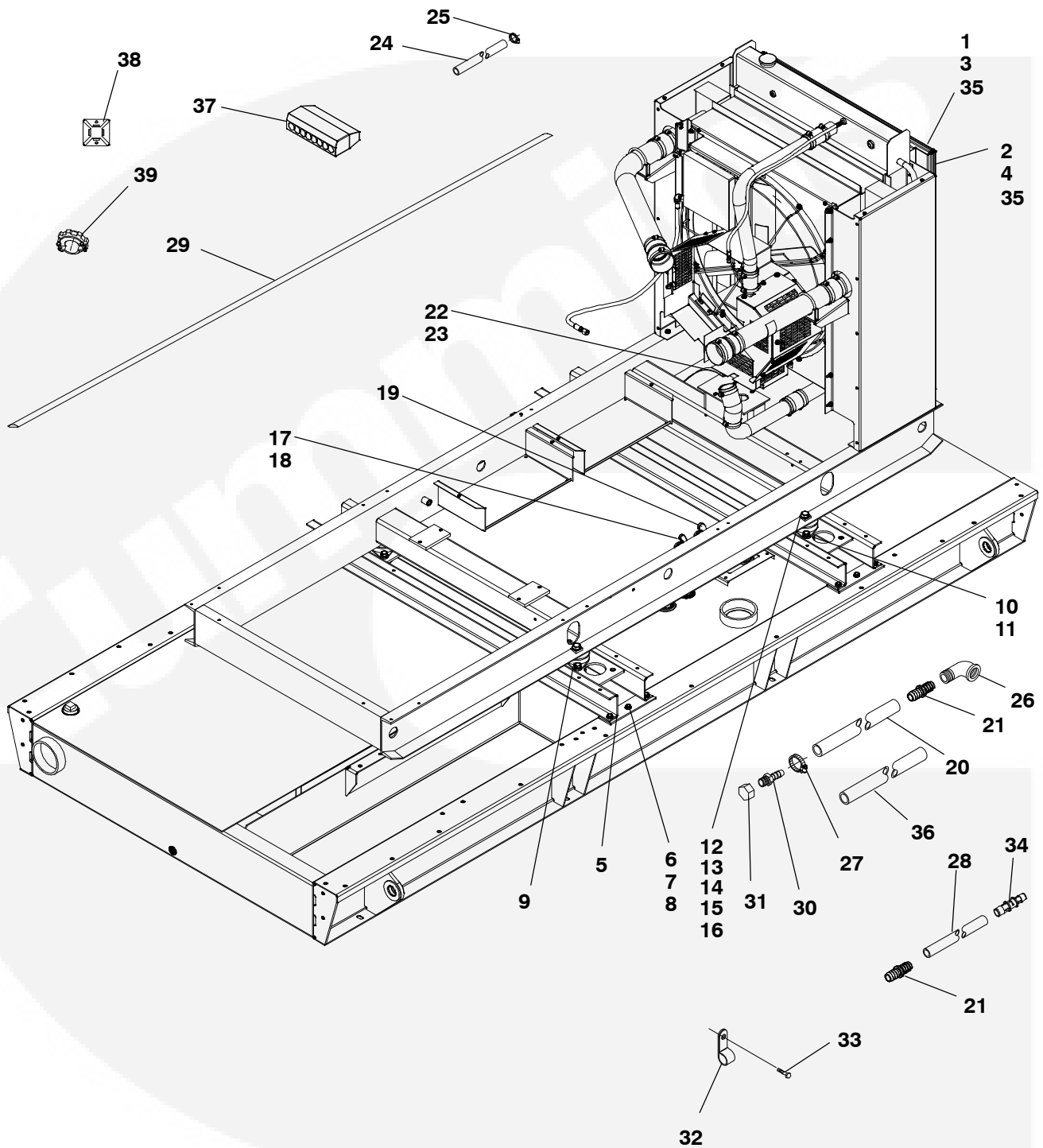
Lifting Skid



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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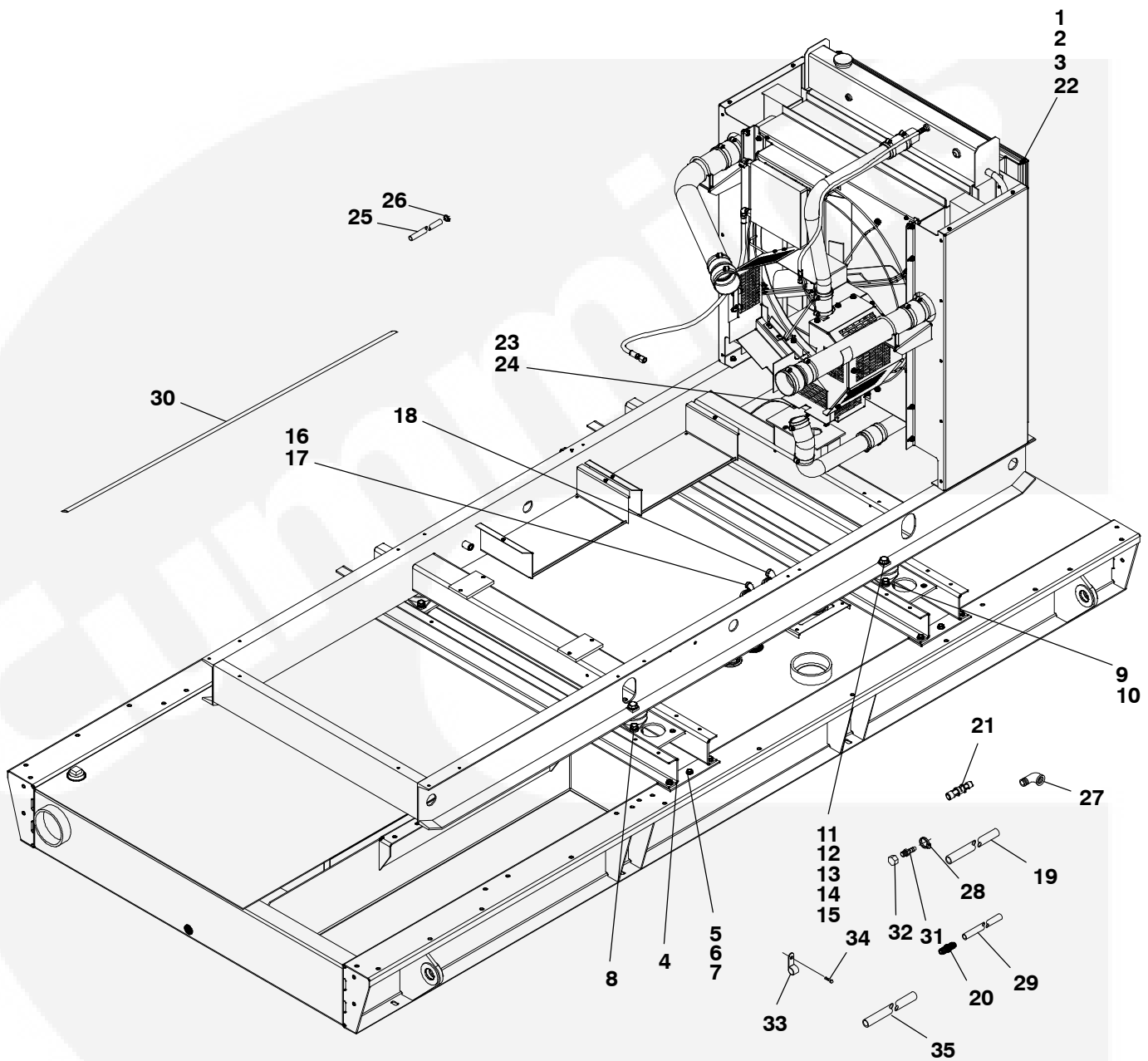
Mounting System Steel Enclosure



Mounting System Steel Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7508-02	1	Duct, Air – Top, Bottom	20	503-2433-01	1	Hose, Breather (3/4 ID)
2	405-7510-02	1	Duct, Air – Sides	21	502-1383	1	Union, Hose (3/4)
3	405-5884-03	2	Seal, Radiator – Top, Bottom	22	337-0090-02	1	Strap, Electrical
4	405-5884-04	2	Seal, Radiator – Sides	23	853-2012	2	Washer, Lock – W/ET (M12)
5	403-5111-02	2	Mount, Fuel Tank	24	503-2434-01	1	Hose, Drain (5/8)
6	800-2114	12	Screw, Cap – Hex Head (M12 x 1.75 x 40)	25	503-0183	1	Clamp, Hose
7	526-2140	24	Washer, Flat (M12)	26	502-1030	1	Connector, Hose – 90° (1/2 x 3/4)
8	860-2010	12	Nut, Hex (M12 x 1.75)	27	503-0189	2	Clamp, Hose
9	402-0816-02	4	Isolator, Vibration	28	503-2433-03	1	Hose, Breather (3/4 ID)
10	850-0070	8	Washer, Lock – Split (5/8)	29	405-7657-04	2	Gasket, Enclosure – With Tank
11	800-0132	8	Screw, Cap – Hex Head (5/8–11 x 1.5)	30	502-0827	1	Hose, Barb (3/4 x 1/2)
12	402-0820	4	Washer, Snubbing	31	502-0876	1	Cap, Pipe (1/2) – Brass
13	526-0027	4	Washer, Flat (3/4)	32	518-0704	1	Clamp, J
14	403-3362	4	Washer, Bevel	33	800-0026	1	Screw, Cap – Hex Head (5/16–18 x .75)
15	800-0167	4	Screw, Cap – Hex Head (3/4–10 x 6.0)	34	503-2106	1	Connector, Reducer (3/4 x 5/8)
16	862-0008-01	4	Nut, Hex (3/4–10)	35	821-5003-03	10	Screw, Hex Head (5/16–18 x 0.75)
17	505-0019	1	Bushing, Reducer (1/2 x 3/8) – With Tank	36	503-2434-02	1	Hose, Drain (5/8)
18	505-0120	1	Elbow, Street – 90° (3/8) – With Tank	37	332-4131-01	1	Block, Terminal
19	505-0050	1	Elbow, Street – 90° (1/2) – With Tank	38	332-3940	10	Mount, Cable Tie
				39	331-0027	4	Connector, Romex

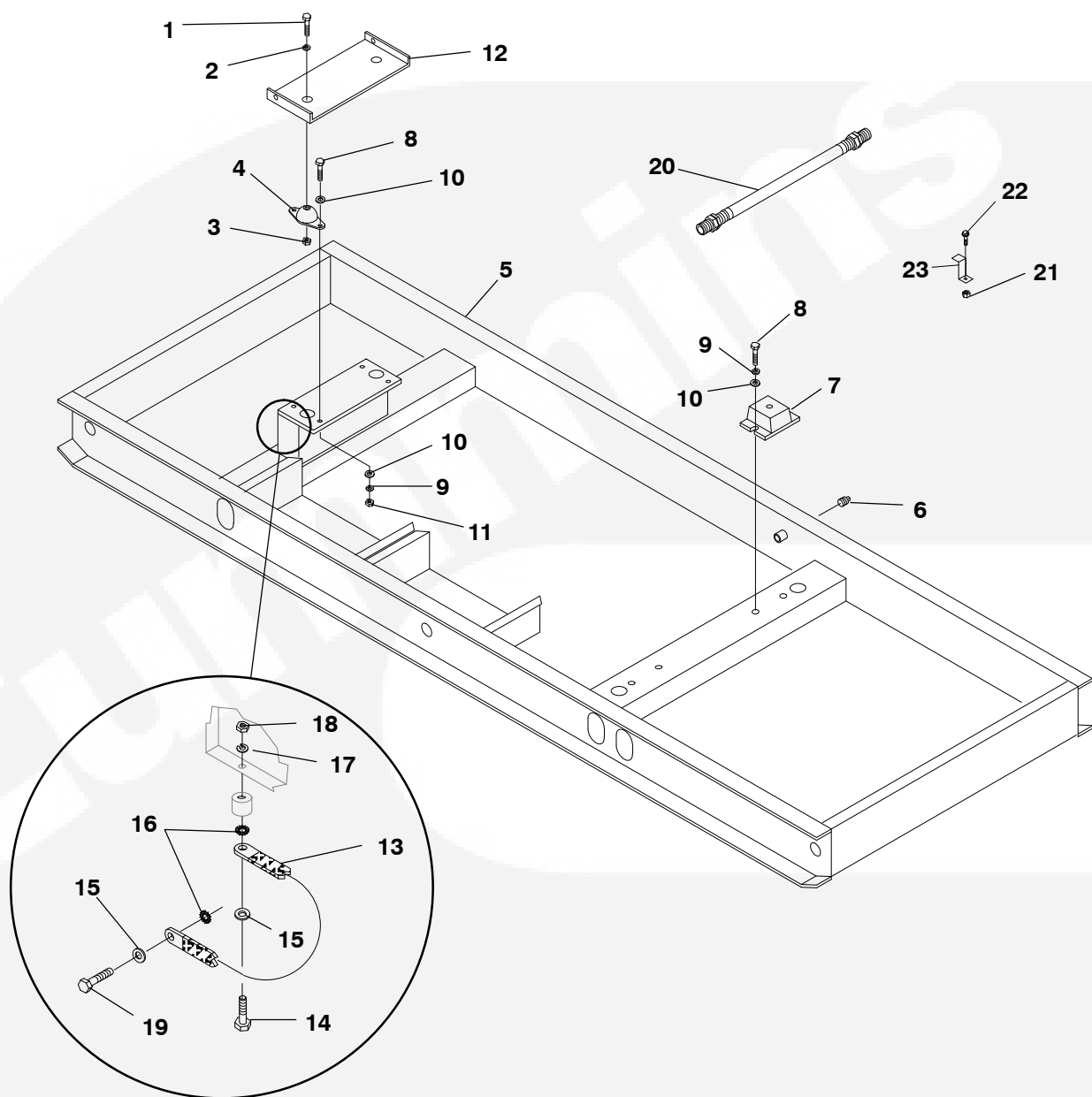
Mounting System Aluminum Enclosure



Mounting System Aluminum Enclosure

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Duct, Air	18	505-0050	1	Elbow, Street – 90° (1/2) – With Tank
	405-7866	1	Top and Bottom				
	405-7868	1	Sides	19	503-2433-01	1	Hose, Breather (3/4 ID)
2	405-5884-03	2	Seal, Radiator – Top and Bottom	20	502-1383	1	Union, Hose (3/4)
3	405-5884-04	2	Seal, Radiator – Sides	21	503-2106	1	Union, Hose (3/4)
4	403-5111-02	2	Mount, Fuel Tank	22	821-5003-02	10	Screw, Hex Head (M8 x 1.25 x 20)
5	800-2114	12	Screw, Cap – Hex Head (M12 x 1.75 x 40)	23	337-0090-02	1	Strap, Electrical
6	526-2140	24	Washer, Flat (M12)	24	853-2012	2	Washer, Lock – W/ET (M12)
7	860-2010	12	Nut, Hex (M12 x 1.75)	25	503-2434-01	1	Hose, Drain (5/8)
8	402-0816-01	4	Isolator, Vibration	26	503-0131	1	Clamp, Hose
9	850-0070	8	Washer, Lock – Split (5/8)	27	502-1030	1	Connector, Hose – 90° (1/2 x 3/4 Hose)
10	800-0132	8	Screw, Cap – Hex Head (5/8-11 x 1.5)	28	503-0189	2	Clamp, Hose
11	402-0820	4	Washer, Snubbing	29	503-2433-03	1	Hose, Breather (3/4 ID)
12	526-0027	4	Washer, Flat (3/4)	30	405-7657-04	2	Gasket, Enclosure – With Tank
13	403-3362	4	Washer, Bevel	31	502-0827	1	Hose, Barb (3/4 x 1/2)
14	800-0167	4	Screw, Cap – Hex Head (3/4-10 x 6.0)	32	502-0876	1	Cap, Pipe (1/2)
15	862-0008-01	4	Nut, Hex – Heavy (3/4-10)	33	518-0704	1	Clamp, J
16	505-0019	1	Bushing, Reducer (1/2 x 3/8) – With Tank	34	800-0026	1	Screw, Cap – Hex Head (5/16-18 x .75)
17	505-0120	1	Elbow, Street – 90° (3/8) – With Tank	35	503-2434-02	1	Hose, Drain (5/8)

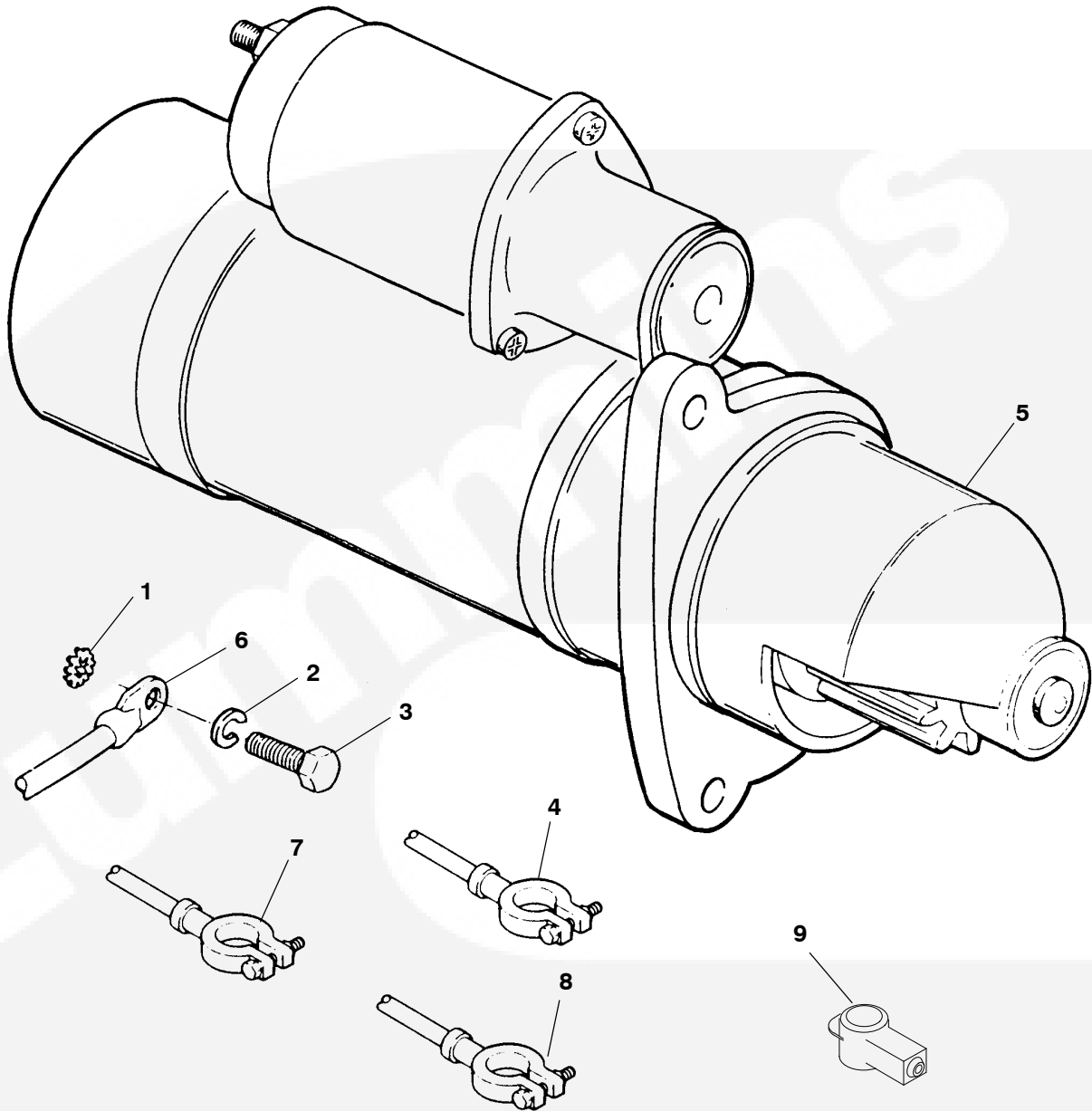
Skid



Skid

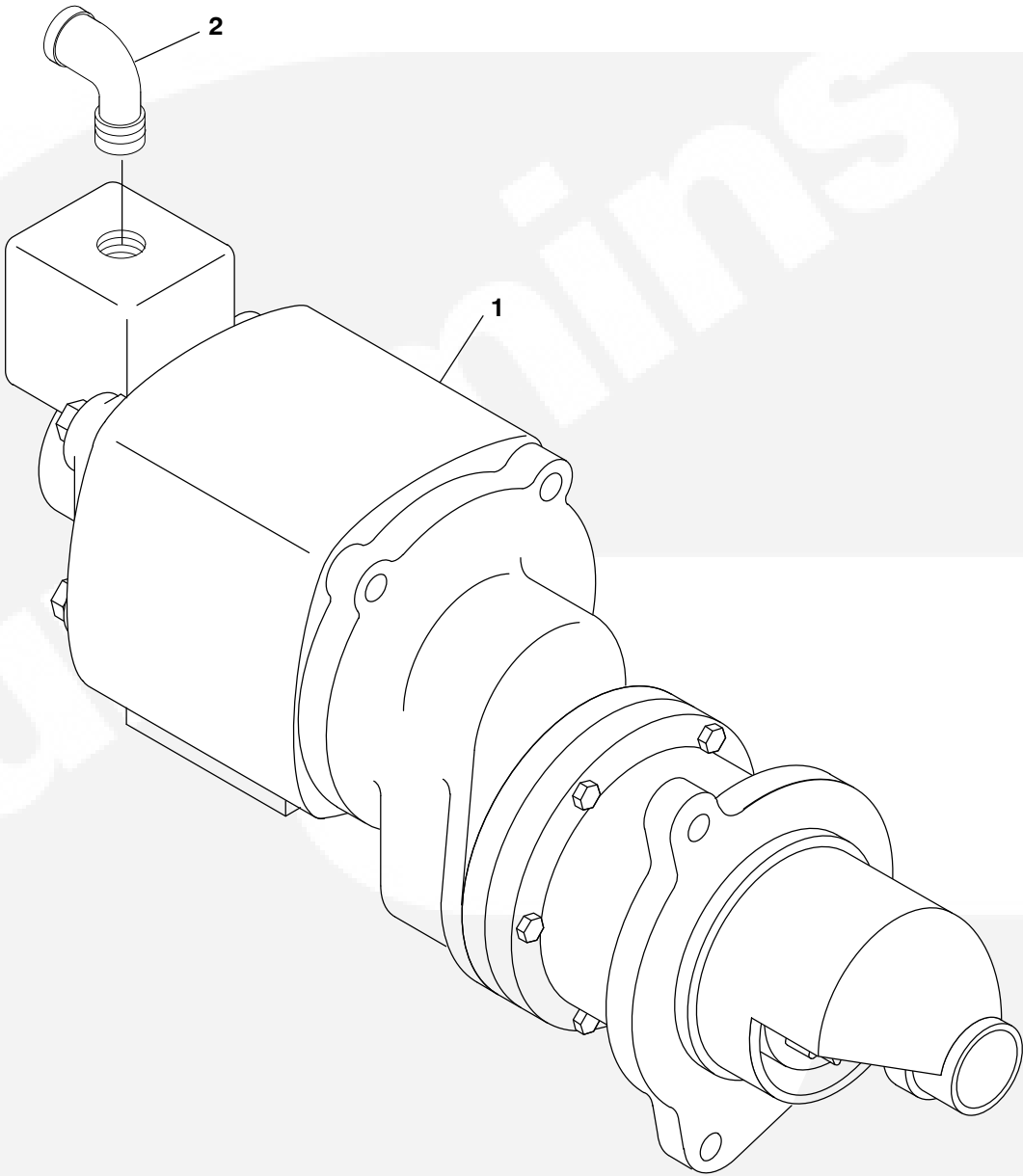
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0138	2	Screw, Cap – Hex Head (5/8-11 x 3")	12	403-4114	1	Bracket, Engine Support
2	850-0070	2	Washer, Lock – Spring (5/8")	13	337-0090	1	Strap, Ground
3	870-0547	2	Nut, Hex (5/8-11)	14	800-0053	1	Screw, Cap – Hex Head (3/8-16 x 1-3/4")
4	402-0779-04	2	Isolator, Vibration – Engine End	15	526-0030	2	Washer, Flat (3/8")
5	403-4125	1	Skid Generator Sets With 44" Wide Skid	16	856-0010	2	Washer, Lock – EIT (3/8")
	403-4532-02	1	Generator Sets With 50" Wide Skid	17	850-0050	2	Washer, Lock – Spring (3/8")
6	505-1379	1	Plug, Pipe (1/2")	18	862-0003	2	Nut, Hex (3/8-16)
7	402-0704	2	Isolator, Vibration Generator End	19	800-0051	1	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
8	800-0091	8	Screw, Cap – Hex Head (1/2-13 x 1-1/4")	20			Line, Fuel – Flexible (Generator Sets Without Day Tank)
9	850-0060	8	Washer, Lock – Spring (1/2")		501-0752-02	1	Fuel Supply (1/2" ID)
10	526-0219	8	Washer, Flat (1/2")		501-0751	1	Fuel Return (3/8" ID)
11	862-0016	4	Nut, Hex (1/2-13)	21	870-0212	1	Nut, Hex – Locking (1/4-20)
				22	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
				23	416-0850	4	Bracket, Retainer – Battery

Electric Starter



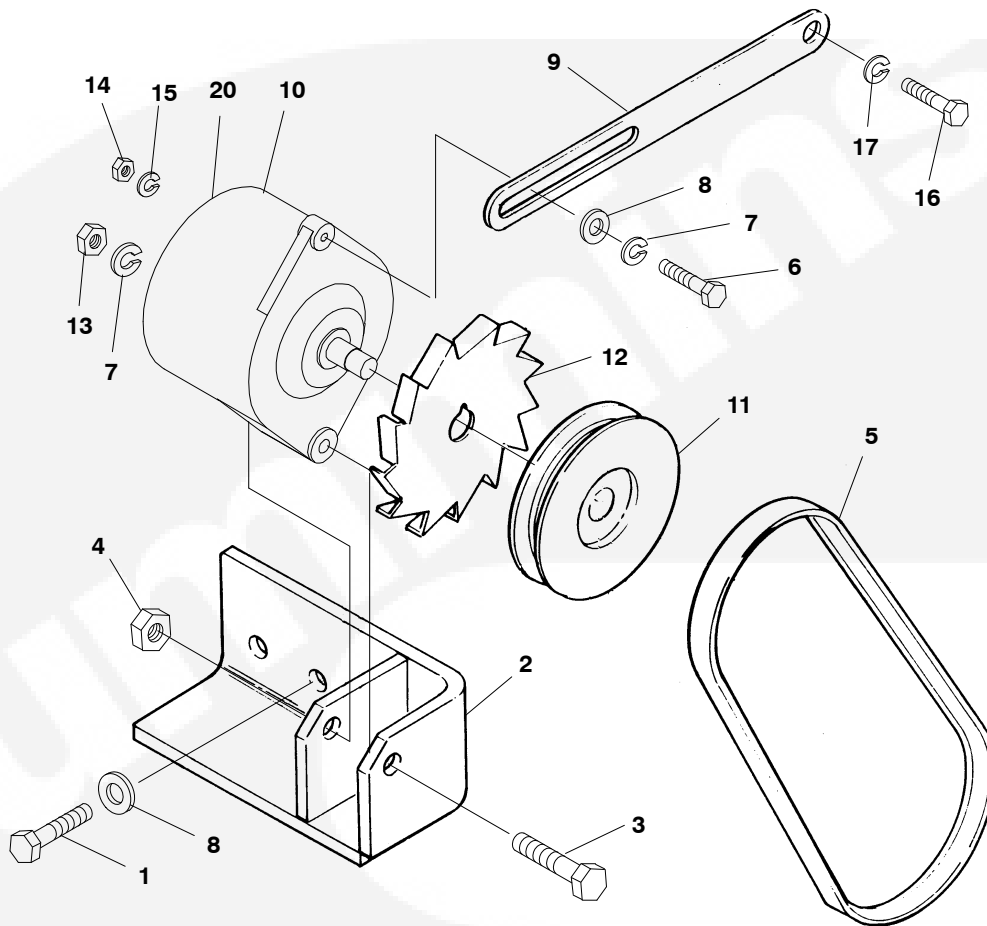
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock - EIT (1/2")	5	191-2342	1	Starter (24VDC)
	856-0013	2	Sets With 44" Wide Skid	6	416-0632	1	Cable, Battery - Starter to Ground (14-1/2")
2	850-0060	1	Washer, Lock - Spring (1/2")	7	416-1096	1	Cable, Battery - Jumper
	850-0060	2	Sets With 44" Wide Skid		416-1097	1	Sets With 44" Wide Skid
3			Screw, Cap - Hex Head (1/2-13 x 1")	8	416-1093	1	Sets With 50" Wide Skid
	800-0090	1					Cable, Battery - Sets With 50" Wide Skid (24")
	800-0090	2	Sets With 50" Wide Skid	9	416-1084-01	1	Boot, Starter (Red)
4	416-1088	2	Cable, Battery (44")	10	416-1019	1	Boot, Battery (Red) (Not Illustrated)
	416-1094	1	Sets With 44" Wide Skid				
			Sets With 50" Wide Skid				

Air Starter



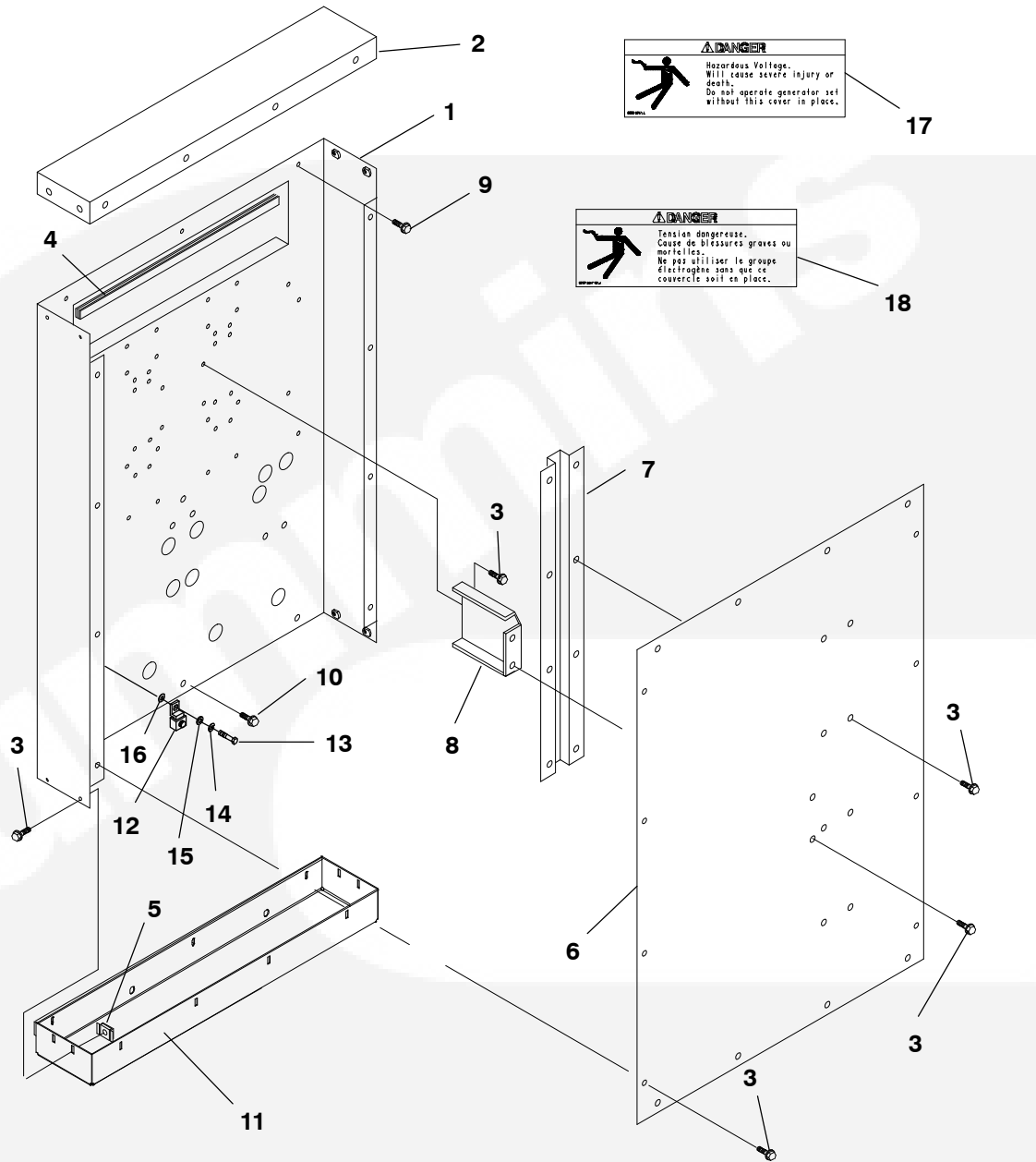
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0387-02	1	Starter, Air	2	502-1054-07	1	Elbow, Street Pipe – 90°

Alternator 55 Amp



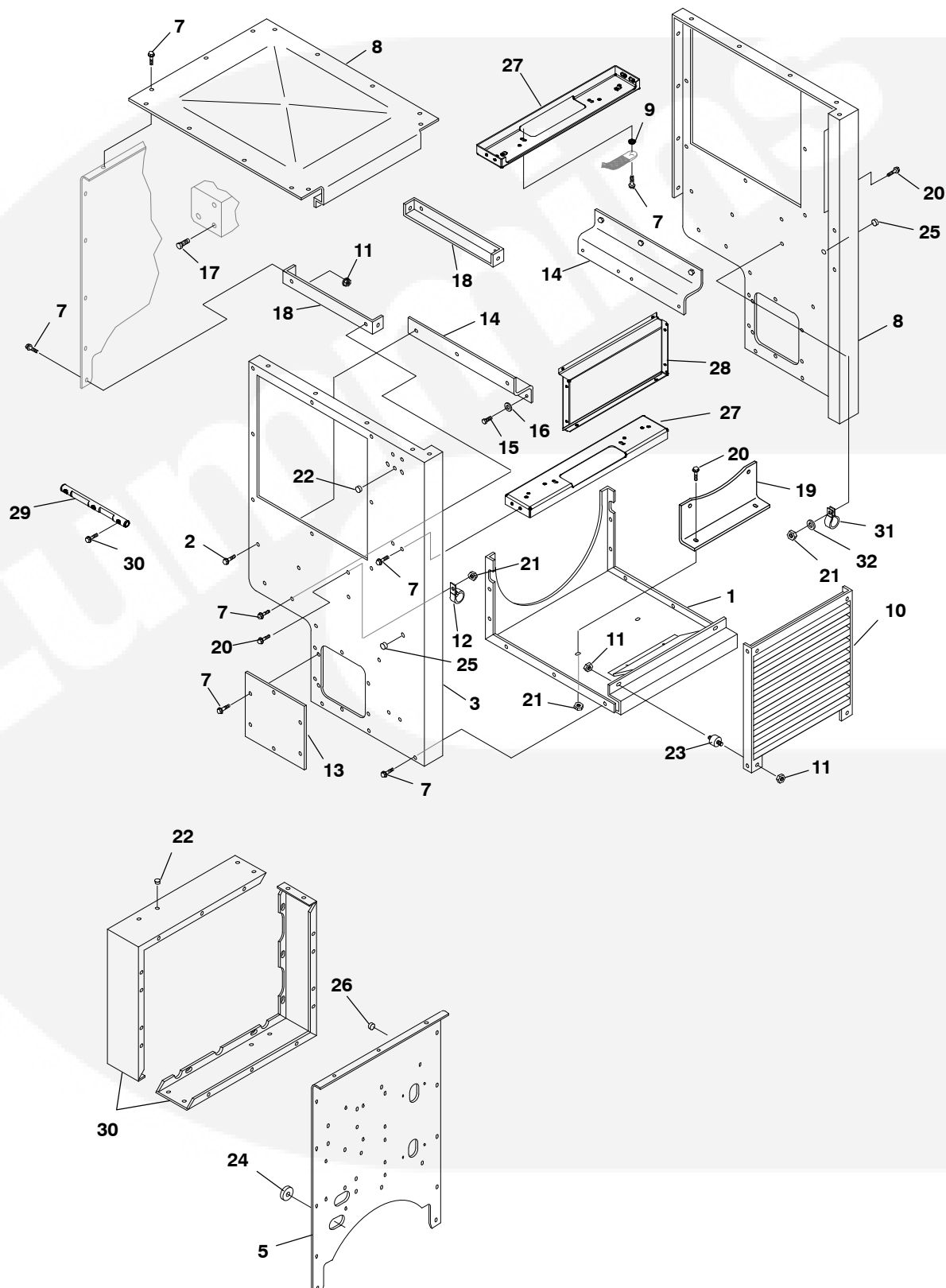
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")	9	191-1977	1	Bracket, Adjusting Alternator
2	191-1980	1	Bracket, Mounting	10	191-2326-02	1	Pulley, Alternator
3	800-0059	1	Screw, Cap – Hex Head (M10 x 80mm)	11	191-1982	1	Fan, Alternator
4	870-2056	1	Nut, Hex – Flange Head (M10)	12	191-2330	1	Nut, Hex (M8)
5	511-0092	1	Belt, Alternator	13	860-2008	1	Nut, Hex (M5)
6	800-2059	1	Screw, Cap – Hex Head (M8 x 30mm)	14	860-2006	2	Washer, Lock – Spring (M5)
7	850-2008	2	Washer, Lock – Spring (M8)	15	850-2005	2	Screw, Cap – Hex Head (7/16–20 x 3–1/2")
8	526-0030	3	Washer, Flat (3/8")	16	800-0202	1	Washer, Lock – Spring (7/16")
				17	850-0055	1	

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	821-2035	2	Screw, Self-Locking – Hex Washer Head (M6 x 25mm)
2	319-1915	1	Panel (Top)	11	319-3183	1	Panel (Bottom)
3	821-6002-03	44	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	12	332-2001	1	Lug, Solderless (CSA Grounding)
4	508-1092	–	Edging – Bulk (Order By The Foot – 2 Feet Required)	13	800-2088	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
5	870-0504	16	Nut, Self-Retaining (M6)	14	850-2010	1	Washer, Lock – Split
6	319-1916	1	Cover	15	526-2120	1	Washer, Flat (M10)
7	319-3284	1	Brace, Cover	16	856-0010	1	Washer – W/EIT
8	319-3251	1	Brace, Cover	17	098-5347	1	Label, Danger
				18	098-5347	1	Label, Danger – French

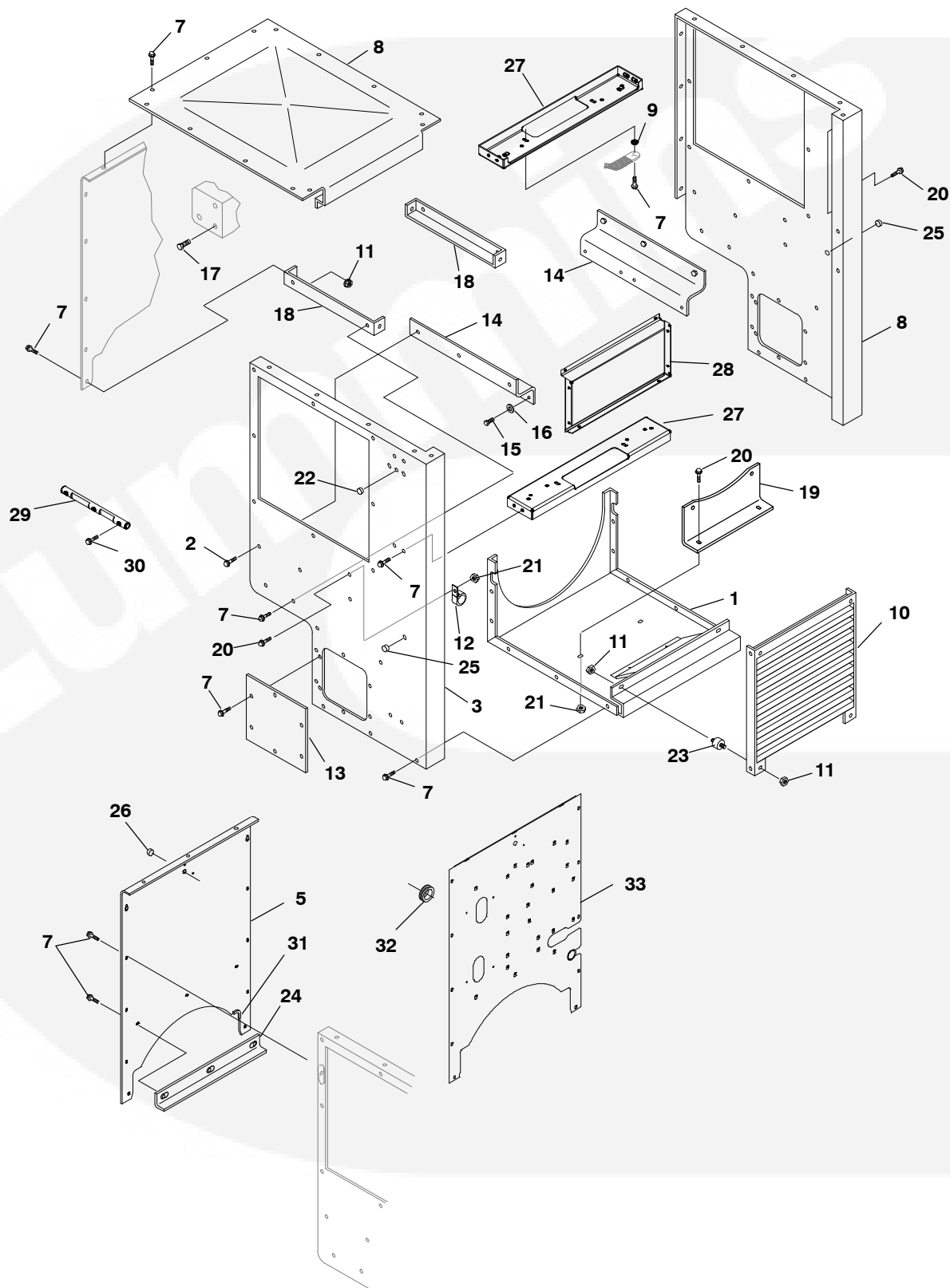
**Control Housing
Model HC4 Generators
Generator Sets With PCC3100
DFBF, DFCB, DFCC**



**Control Housing
Model HC4 Generators
Generator Sets With PCC3100
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-01	1	Panel – Bottom	17	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	18	319-3257	2	Panel, Support
3	319-3287-01	1	Panel – Right Side	19	319-1345	1	Bracket, Panel
4	517-0137	1	Plug, Hole (Not Shown)	20	821-6003-02	7	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
5	319-3274	1	Panel – Front	21	870-2055	7	Nut, Locking – Hex Head (M8)
6	301-9512	1	Cover, Top	22	517-0131	3	Plug, Hole (Fits 3/8" Hole)
7	821-6002-03 A/R		Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	23	402-0729	4	Isolator, Vibration
8	319-3287-02	1	Panel – Left Side	24	508-1090	4	Grommet
9	856-0006	2	Washer, Lock – W/EIT (1/4")	25	517-0136	2	Plug, Hole (Fits 3/4" Hole)
10	319-2768	1	Grille	26	517-0135	1	Plug, Hole (Fits 5/8" Hole)
11	870-2054	8	Nut, Locking – Hex Flange Head (M6)	27	405-7249-02	2	Rail, Enclosure (Support)
12	518-0548-02	3	Clamp, "J"	28	405-7254-02	1	Rail, Enclosure (Front)
13	301-9629	2	Cover, Side – Lower	29	821-0014	4	Screw, Locking – Hex Head (5/16-18 x .50)
14	319-3255	2	Bracket, Mounting	30	319-3278	2	Wrapper, Control Box
15	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)	31	518-0548-24	1	Clamp, Hose
16	850-2012	6	Washer, Lock – Spring (M12)	32	526-2100	1	Washer, Flat (M8)

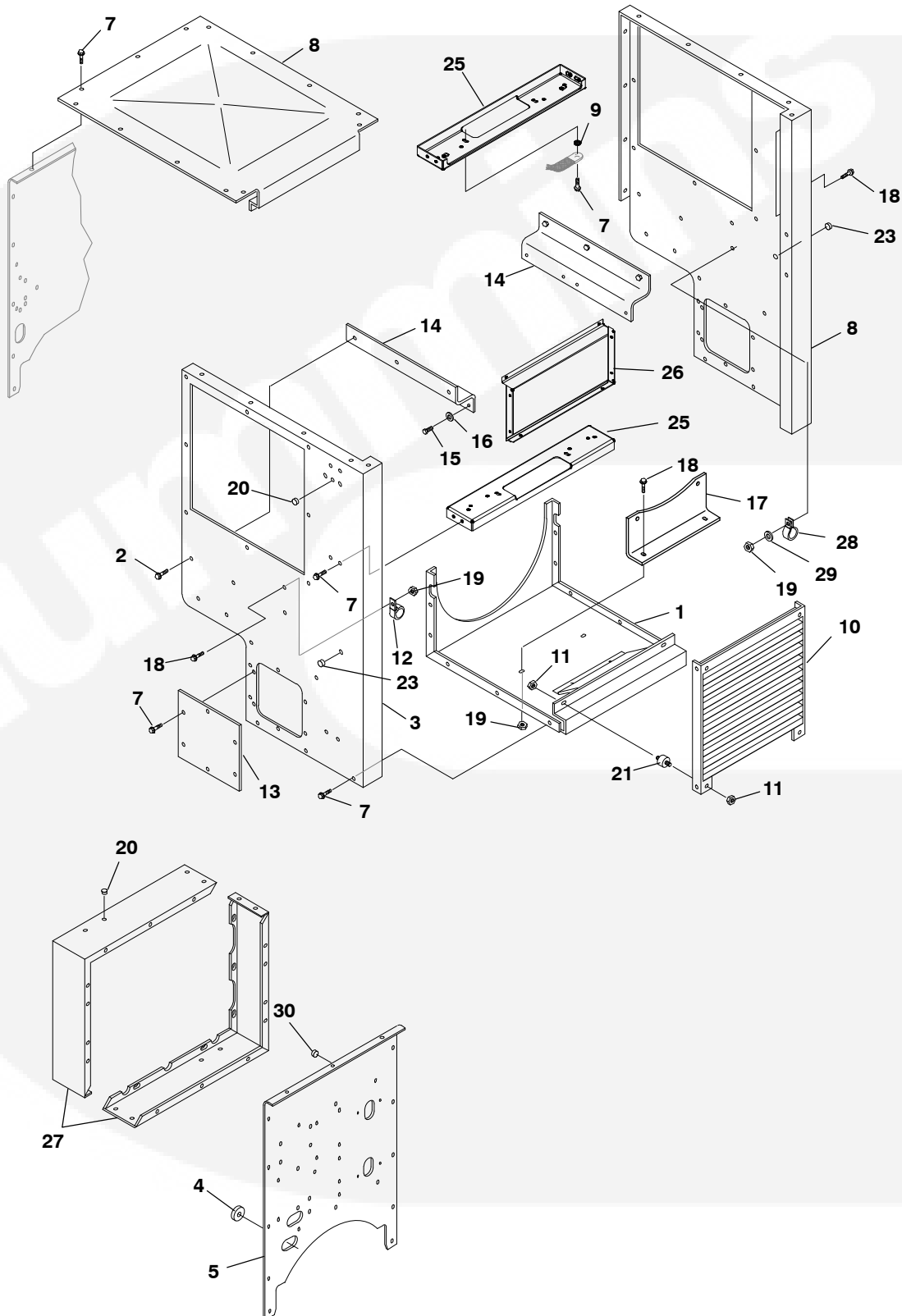
**Control Housing
Model HC4 Generators
Generator Sets With PCC2100
DFBF, DFCB, DFCC**



**Control Housing
Model HC4 Generators
Generator Sets With PCC2100
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-01	1	Panel – Bottom	18	319-3257	2	Panel, Support
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	19	319-1345	1	Bracket, Panel
3	319-3287-01	1	Panel – Right Side	20	821-6003-02 A/R		Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
4	517-0137	1	Plug, Hole (Not Shown)	21	870-2055	A/R	Nut, Locking – Hex Head (M8)
5	319-5477-02	1	Panel – Front (Without Steel or Aluminum Housing)	22	517-0131	1	Plug, Hole (Fits 3/8" Hole)
6	301-9512	1	Cover, Top	23	402-0729	4	Isolator, Vibration
7	821-6002-03 A/R		Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	24	319-3291	1	Angle, Stiffener
8	319-3287-02	1	Panel – Left Side	25	517-0136	2	Plug, Hole (Fits 3/4" Hole)
9	856-0006	1	Washer, Lock – W/EIT (1/4")	26	517-0135	1	Plug, Hole (Fits 5/8" Hole)
10	319-2768	1	Grille	27	405-7249-02	2	Rail, Enclosure (Support) (Without Steel or Aluminum Housing)
11	870-2054	8	Nut, Locking – Hex Flange Head (M6)	28	405-7254-02	1	Rail, Enclosure (Front)
12	518-0548-02	2	Clamp, "J"	29	332-3740	1	Clamp, Strain
13	301-9629	2	Cover, Side – Lower	30	814-2150	3	Screw, Flat Head – Cross Recessed (M3 x 0.5 x 10)
14	319-3255	2	Bracket, Mounting	31	508-0305-02	–	Edging – Bulk (Order by the Foot – 3 Feet Required)
15	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)	32	508-1090	2	Grommet (With Steel or Aluminum Housing)
16	850-2012	6	Washer, Lock – Spring (M12)	33	319-4453-02	1	Panel – Front (With Steel or Aluminum Housing)
17	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)				

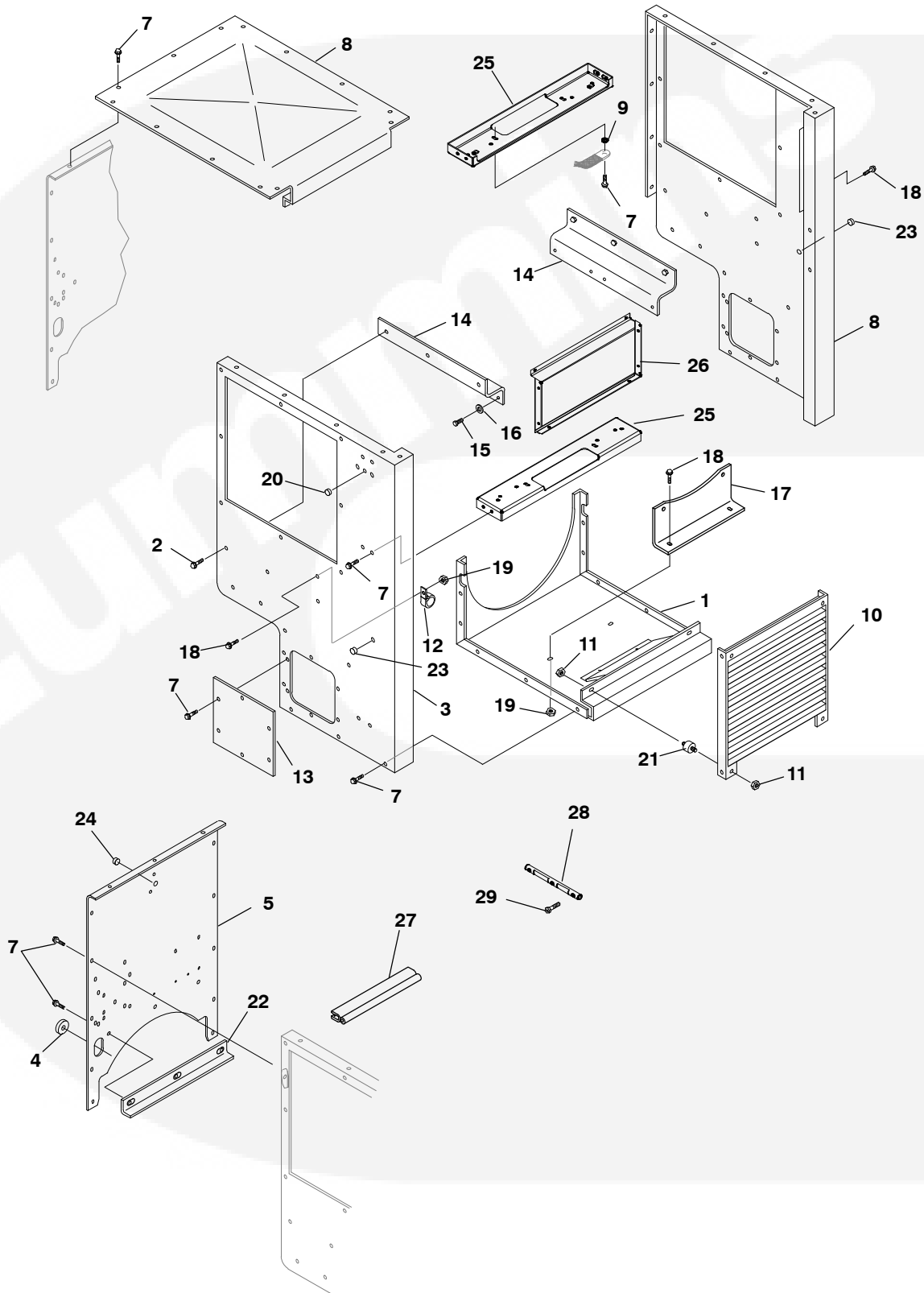
**Control Housing
Model HC5 Generators
Generator Sets With PCC3100
DFBF, DFCB, DFCC**



**Control Housing
Model HC5 Generators
Generator Sets With PCC3100
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	17	319-1346	1	Bracket, Panel
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	18	821-6003-02	7	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
3	319-3287-01	1	Panel – Right Side	19	870-2055	7	Nut, Locking – Hex Head (M8)
4	508-1090	4	Grommet, Rubber	20	517-0131	3	Plug, Hole (Fits 3/8" Hole)
5	319-3273	1	Panel – Front	21	402-0729	4	Isolator, Vibration
6	301-9512	1	Cover, Top	22	821-0014	4	Screw, Locking (5/16-18 x .50)
7	821-6002-03 A/R		Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	23	517-0136	2	Plug, Hole (Fits 3/4" Hole)
8	319-3287-02	1	Panel – Left Side	24	517-0135	1	Plug, Hole (Fits 5/8" Hole)
9	856-0006	2	Washer, Lock – W/EIT (1/4")	25	405-7249-02	2	Rail, Enclosure (Support) (Without Steel or Aluminum Housing)
10	319-2768	1	Grille	26	405-7254-02	1	Rail, Enclosure (Front)
11	870-2054	8	Nut, Locking – Hex Flange Head (M6)	27	319-3278	2	Wrapper, Control Box
12	518-0548-02	3	Clamp, "J"	28	518-0548-24	1	Clamp, Hose
13	301-9629	2	Cover, Side – Lower	29	526-2100	1	Washer, Flat (M8)
14	319-3327	2	Bracket, Mounting	30	517-0137	1	Plug, Hole
15	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)				
16	850-2012	6	Washer, Lock – Spring (M12)				

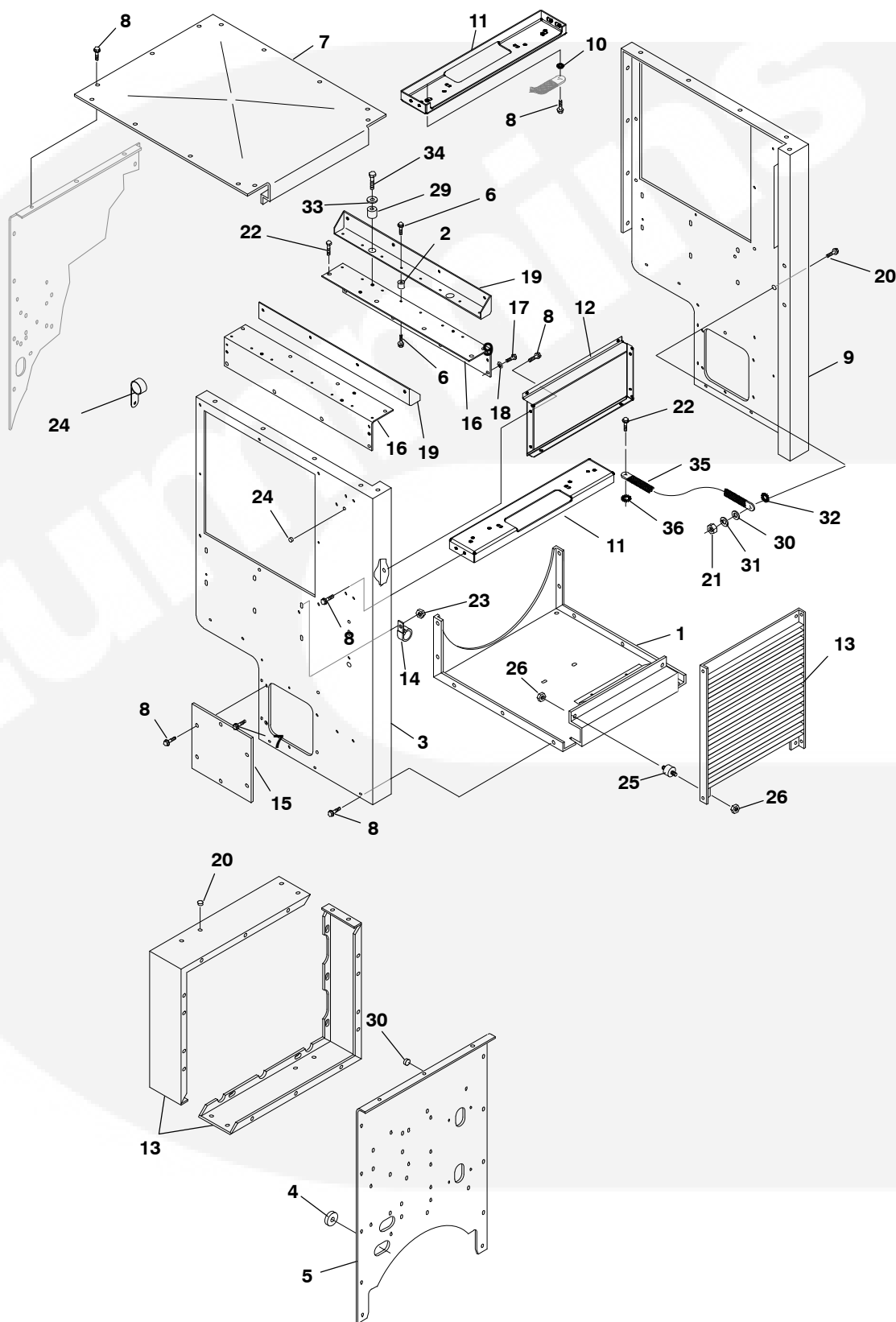
**Control Housing
Model HC5 Generators
Generator Sets With PCC2100
DFBF, DFCB, DFCC**



**Control Housing
Model HC5 Generators
Generator Sets With PCC2100
DFBF, DFCB, DFCC**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	17	319-1346	1	Bracket, Panel
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	18	821-6003-02	5	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
3	319-3287-01	1	Panel – Right Side	19	870-2055	5	Nut, Locking – Hex Head (M8)
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	20	517-0131	1	Plug, Hole (Fits 3/8" Hole)
5	319-3290	1	Panel – Front	21	402-0729	4	Isolator, Vibration
6	301-9512	1	Cover, Top	22	319-3291	1	Angle, Stiffener
7	821-6002-03 A/R		Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	23	517-0136	2	Plug, Hole (Fits 3/4" Hole)
8	319-3287-02	1	Panel – Left Side	24	517-0135	1	Plug, Hole (Fits 5/8" Hole)
9	856-0006	1	Washer, Lock – W/EIT (1/4")	25	405-7249-02	2	Rail, Enclosure (Support) (Without Steel or Aluminum Housing)
10	319-2768	1	Grille	26	405-7254-02	1	Rail, Enclosure (Front)
11	870-2054	8	Nut, Locking – Hex Flange Head (M6)	27	508-1109	–	Edging, Bulk (Order by the Foot – 1 Foot Required)
12	518-0548-02	2	Clamp, "J"	28	332-3740	1	Clamp, Strain
13	301-9629	2	Cover, Side – Lower	29	814-2150	3	Screw, Cross Recessed – Flat Head (M3 x 0.5 x 10)
14	319-3327	2	Bracket, Mounting	30	517-0137	1	Plug, Hole (Not Shown)
15	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)				
16	850-2012	6	Washer, Lock – Spring (M12)				

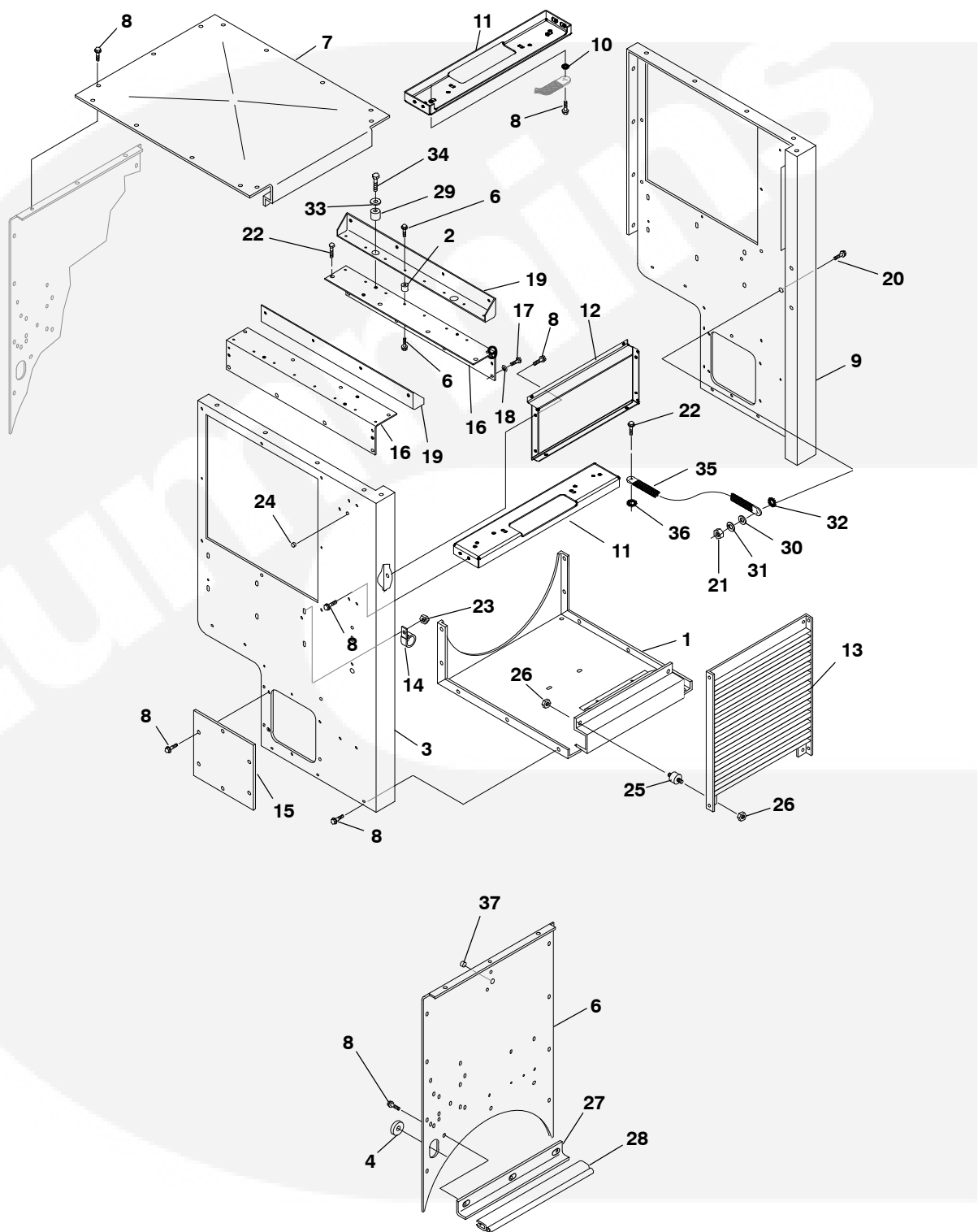
Control Housing **Model HC5 Generators** **Generator Sets With PCC3100** **DFCE**



**Control Housing
Model HC5 Generators
Generator Sets With PCC3100
DFCE**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	19	850-2012	6	Washer, Lock – Spring (M12)
2	402-0070	16	Isolator, Vibration	20	319-3292	2	Bracket, Control Panel – Upper
3	319-3287-01	1	Panel – Right Side	21	821-6003-02	3	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
4	508-1090	4	Grommet, Rubber	22	870-2055	A/R	Nut, Hex (M8)
5	319-3273	1	Panel – Front	23	821-6004-01	15	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)
6	821-0014	36	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	24	518-0548-24	1	Clip, "J"
7	301-9512	1	Cover, Top	25	870-2056	2	Nut, Hex (M10)
8	821-6003-02	A/R	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	26	517-0131	3	Plug, Hole (Fits 3/8" Hole)
9	319-3287-02	1	Panel – Left Side	27	402-0729	4	Isolator, Vibration
10	856-0006	A/R	Washer, Lock – EIT (1/4")	28	870-2054	8	Nut, Hex (M6)
11	405-7249-02	2	Rail, Enclosure (Support) (Without Aluminum or Steel Housing)	29	191-2034-03	4	Spacer, Mounting
12	405-7254-02	1	Rail, Enclosure (Front)	30	526-2100	2	Washer, Flat (M8)
13	319-3278	2	Wrapper, Control Box	31	850-2006	1	Washer, Lock – Spring (M8)
14	319-2768	1	Grille	32	856-0008	1	Washer, Lock – EIT (5/16")
15	332-2634	3	Clamp, "J"	33	526-0128	4	Washer, Flat (7/16" ID x 1-1/2" OD x 1/4" Thk)
16	301-9629	2	Cover, Side – Lower	34	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
17	319-3328	2	Bracket, Control Panel – Lower	35	337-0090-01	1	Strap, Ground
18	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)	36	856-0010	1	Washer, Lock – EIT (3/8")
				37	517-0135	1	Plug, Hole (Fits 5/8" Hole)
				38	517-0137	1	Plug, Hole (Not Shown)

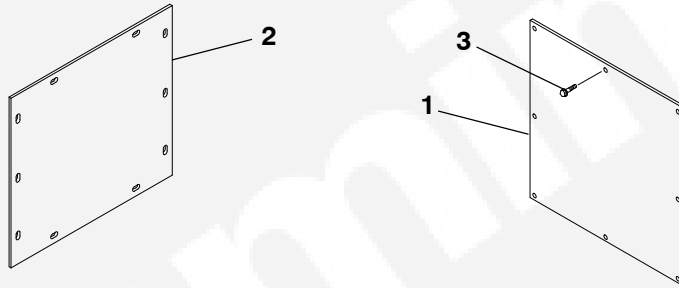
Control Housing **Model HC5 Generators** **Generator Sets With PCC2100** **DFCE**



**Control Housing
Model HC5 Generators
Generator Sets With PCC2100
DFCE**

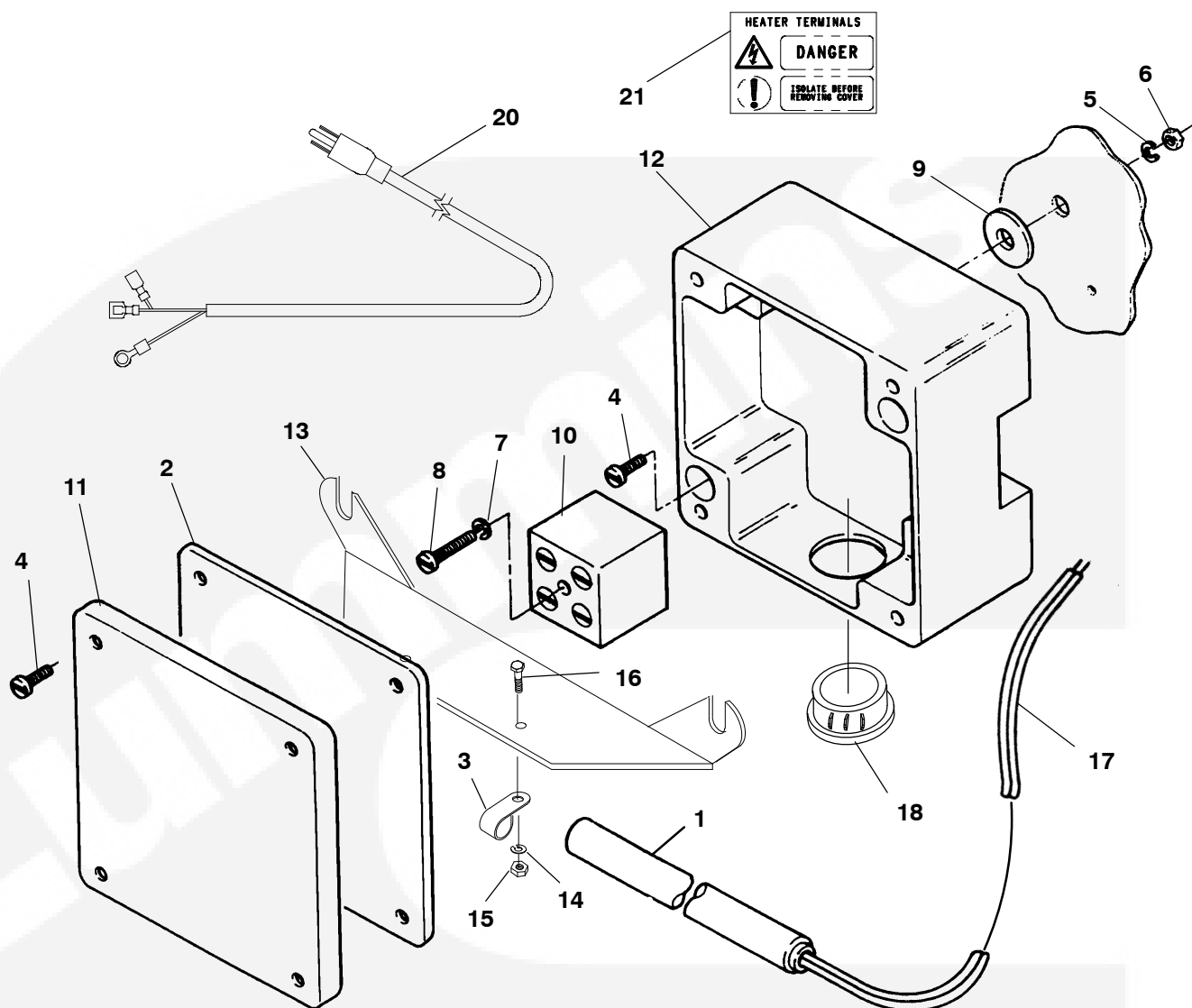
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	19	319-3292	2	Bracket, Control Panel – Upper
2	402-0070	16	Isolator, Vibration	20	821-6003-02	2	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
3	319-3287-01	1	Panel – Right Side	21	870-2055	2	Nut, Hex (M8)
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	22	821-6004-01	15	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)
5	319-3290	1	Panel – Front	23	870-2056	2	Nut, Hex (M10)
6	821-0014	32	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	24	517-0131	1	Plug, Hole (Fits 3/8" Hole)
7	301-9512	1	Cover, Top	25	402-0729	4	Isolator, Vibration
8	821-6003-02 A/R		Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	26	870-2054	8	Nut, Hex (M6)
9	319-3287-02	1	Panel – Left Side	27	319-3291	1	Angle, Stiffener
10	856-0006	1	Washer, Lock – EIT (1/4")	28	508-1109	–	Edging – Bulk (Order By The Foot – 1 Foot Required)
11	405-7249-02	2	Rail, Enclosure (Support) (Without Aluminum or Steel Housing)	29	191-2034-03	4	Spacer, Mounting
12	405-7254-02	1	Rail, Enclosure (Front)	30	526-2100	2	Washer, Flat (M8)
13	319-2768	1	Grille	31	850-2006	1	Washer, Lock – Spring (M8)
14	332-2634	2	Clamp, "J"	32	856-0008	1	Washer, Lock – EIT (5/16")
15	301-9629	2	Cover, Side – Lower	33	526-0128	4	Washer, Flat (7/16" ID x 1-1/2" OD x 1/4" Thk)
16	319-3328	2	Bracket, Control Panel – Lower	34	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)	35	337-0090-01	1	Strap, Ground
18	850-2012	6	Washer, Lock – Spring (M12)	36	856-0010	1	Washer, Lock – EIT (3/8")
				37	517-0135	1	Plug, Hole (Fits 5/8" Hole)

Control Housing Cover



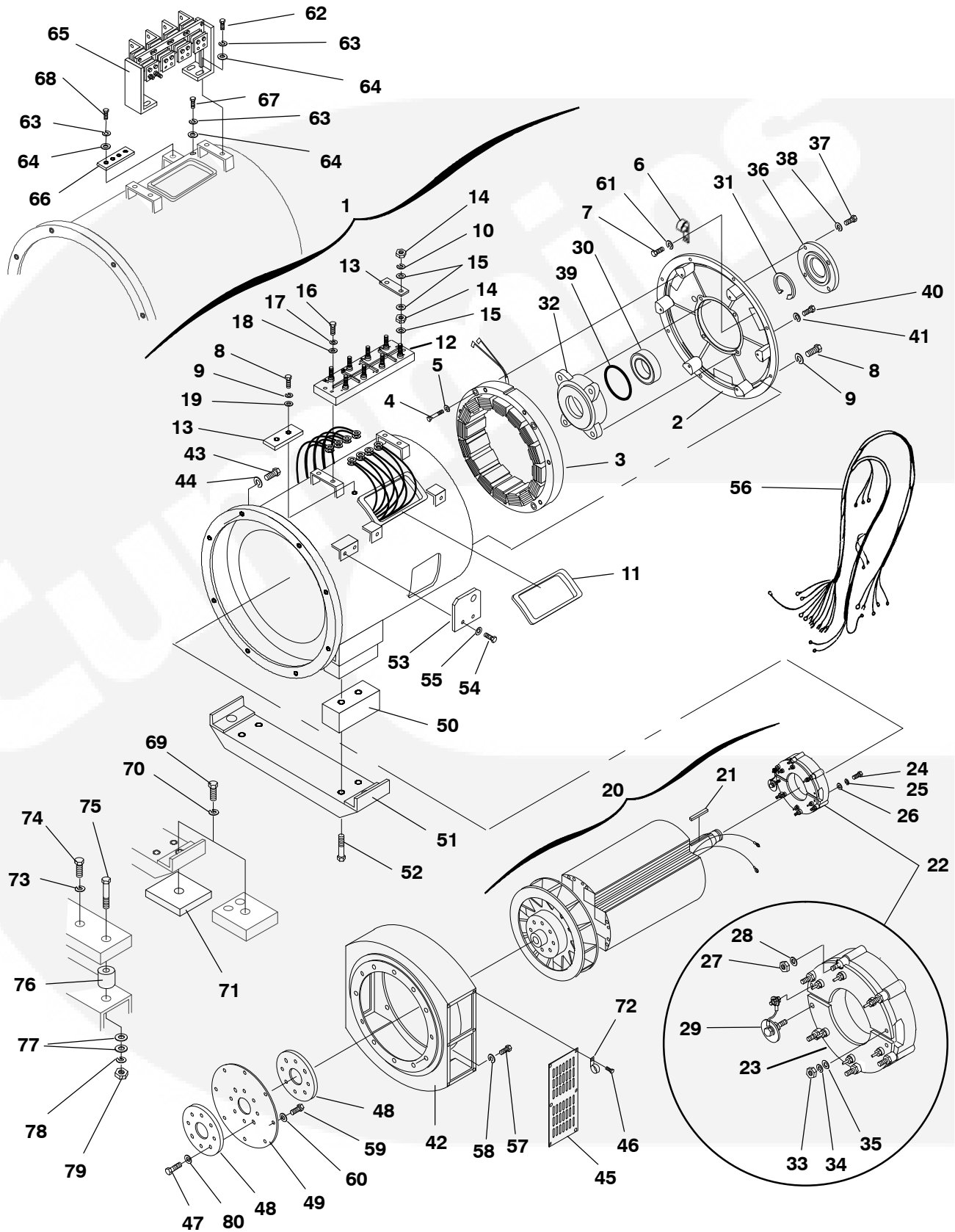
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Control Housing – Side – Upper (23" x 23")	3			Screw, Hex Head (M6 x 1 x 20)
	301-9511	1	With One Circuit Breaker or Entrance Box		821-6002-03	10	With Circuit Breaker and Entrance Box or With Two Circuit Breakers or Two Entrance Boxes
	301-9511	2	No Circuit Breaker or Entrance Box		821-6002-03	18	With One Circuit Breaker or Entrance Box
2	319-2220	1	Cover, Control Box (25-1/4" x 19-1/8")		821-6002-03	26	No Circuit Breaker or Entrance Box

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (150 Watt)	9	508-0228	1	Grommet
			HC4	10	332-3023	1	Block, Terminal
	333-0438-03	2	120 Volt	11	330-0141-03	1	Cover, Box
	333-0438-04	2	240 Volt	12	330-0142	1	Box, Terminal
			HC5	13			Bracket, Mounting - Heater
	333-0438-05	1	120 Volt		232-3850	1	HC4
2	330-0141-04	1	Gasket, Cover		232-3849	1	HC5
3			Clamp, Loop	14	850-2005	2	Washer, Lock - Spring (M5)
	332-3024-14	4	HC4	15	860-2006	2	Nut, Hex (M5)
	332-3024-14	2	HC5	16	800-2008	2	Screw, Cap - Hex Head (M5 x 16mm)
4	822-3075	6	Screw, Machine - Slotted Pan Head (M4 x 16mm)	17	A030F216	1	Sleeving - Heater Leads (59")
5	850-2004	2	Washer, Lock - Spring (M4)	18	517-0021	1	Plug, Dot Button
6	860-2005	2	Nut, Hex (M4)	19	331-0027	1	Connector, Romex (Not Illustrated)
7	850-2003	1	Washer, Lock - Spring (M3)	20	335-0173-04	1	Cable
8	822-3047	1	Screw, Machine - Pan Head (M3 x 20mm)	21	098-7281	1	Label, Heater Warning

Generator

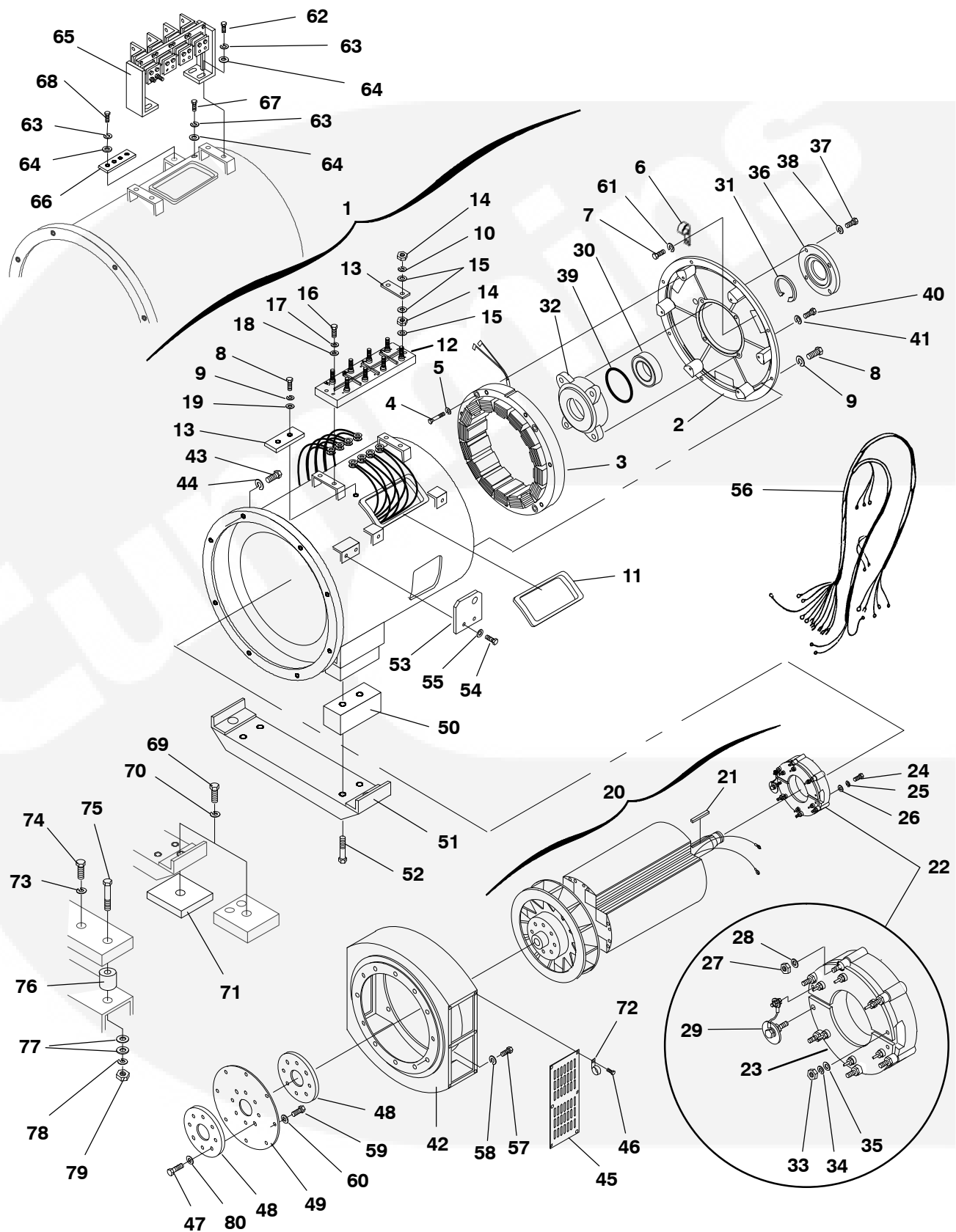


Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Stator Assembly, Generator – Complete (Includes Parts Marked *)	22			#Rotor Assembly, Exciter (Includes Parts Marked +)
2			*Bell, End	201-3460	1		Model HC4 Generators
	211-0431	1	Model HC4 Generators	201-3508	1		Model HC5 Generators
	211-0457	1	Model HC5 Generators	23	357-0093	1	#+ Rectifier Assembly (Includes Diodes and Varistor)
3			*Stator, Exciter	24			#+ Screw, Cap – Hex Head
	220-4248	1	Model HC4 Generators	800-2042	4		Model HC4 Generators (M6 x 60mm)
	220-4389	1	Model HC5 Generators	800-2045	4		Model HC5 Generators (M6 x 75mm)
4			*Screw, Cap – Hex Head	25	850-2006	4	#+ Washer, Lock – Spring (M6)
	800-2066	6	Model HC4 Generators (M8 x 65mm)	26	526-2080	4	#+ Washer, Flat (M6)
	800-2069	6	Model HC5 Generators (M8 x 80mm)	27	870-2064-02	6	#+ Nut, Hex (M5)
5	850-2008	6	*Washer, Lock – Spring (M8)	28	526-2060	6	#+ Washer, Flat (M5)
6	425-1799	1	*Clamp, Cable	29	249-0797	1	Kit, Diode (Includes Varistor And All Diodes)
7	800-2004	1	*Screw, Cap – Hex Head (M5 x 12mm)	30	510-0168	1	#Bearing, Ball
8			*Screw, Cap – Hex Head (M10 x 35mm)	31	518-0018	1	#Ring, Retaining
	800-3017-39	9	Model HC4 Generators	32	232-3518-01	1	#Housing, Bearing
	800-3017-39	8	Model HC5 Generators	33	860-2006	2	#Nut, Hex (M5)
9			*Washer, Lock – Spring (M10)	34	850-2005	2	#Washer, Lock – Spring (M5)
	850-0114-55	9	Model HC4 Generators	35	526-2060	2	#Washer, Flat (M5)
	850-0114-55	8	Model HC5 Generators	36	232-3981-01	1	#Cover, Bearing Housing
10	850-2012	8	*Washer, Lock – Spring (M12)	37	800-2087	4	#Screw, Cap – Hex Head (M10 x 30mm)
			Model HC4 Generators	38	850-2010	4	#Washer, Lock – Spring (M10)
11			*Grommet	39	509-0266-03	1	#O-Ring
	508-0306	2	Model HC4 Generators	40	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
	508-1086	1	Model HC5 Generators	41	850-2010	4	Washer, Lock – Spring (M10)
12	232-3482	1	*Panel, Terminal – Model HC4 Generators	42			Adapter, Generator
13	332-3009	4	*Link, Terminal – Model HC4 Generators	231-0322	1		Model HC4 Generators
14	860-2010	16	*Nut, Hex (M12) Model HC4 Generators	231-0345	1		Model HC5 Generators
15	526-2140	24	*Washer, Flat (M12) Model HC4 Generators	43			Screw
16	800-2061	4	*Screw, Cap – Hex Head (M8 x 40mm) Model HC4 Generators	800-3017-56	6		Cap – Hex Head (M12 x 40mm)
17	850-2008	4	*Washer, Lock – Spring (M8) Model HC4 Generators	725-1103	2		Socket Head (M12 x 40mm) (Bottom Holes)
18	526-2100	4	*Washer, Flat (M8) Model HC4 Generators	44	850-0114-56	8	Washer, Lock – Spring (M12)
19	526-2120	1	*Washer, Flat (M10) Model HC4 Generators	45			Guard, Fan
20	-	1	Rotor Assembly, Generator – Complete (See Separate Page For Part Numbers) (Includes Parts Marked #)	234-0889	2		Model HC4 Generators
21			#Key	234-0944	2		Model HC5 Generators
	515-0300-01	1	Model HC4 Generators	Continued...			
	515-0300-06	1	Model HC5 Generators				

* – Parts Included In Generator Stator Assemblies
– Parts Included In Generator Rotor Assemblies
+ – Parts Included In Exciter Rotor Assemblies

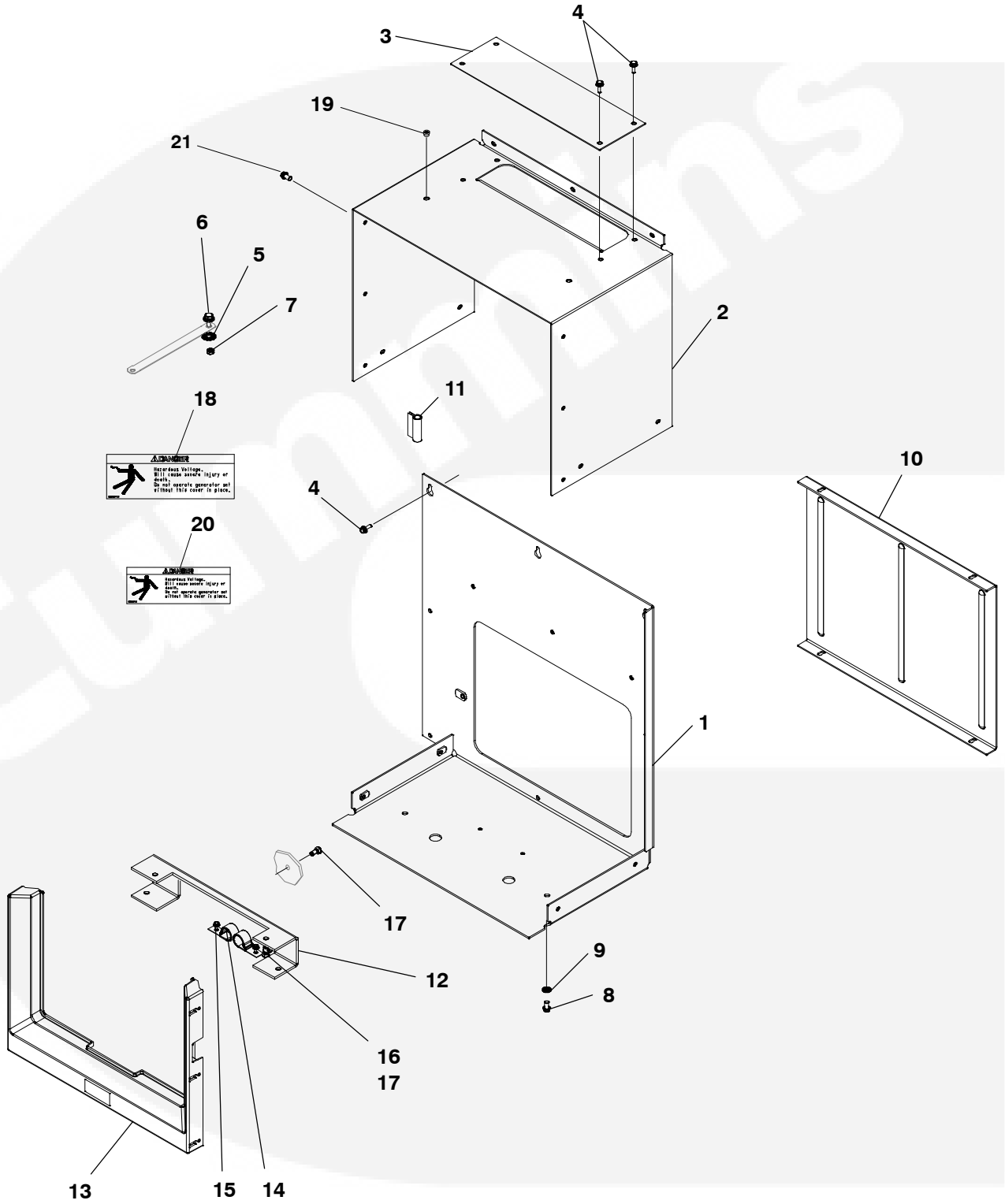
Generator



Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				59	805-0032	8	Bolt, Place (1/2-13 x 1-1/4")
46	821-6001-02	12	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	60	526-0035	8	Washer, Flat (1/2")
47			Screw, Cap – Hex Head	61	850-2005	1	*Washer, Lock – Spring (M5)
	720-1146	8	Model HC4 Generators (M20 x 60mm)	62	800-3017-39	4	*Screw, Cap – Hex Head (M10 x 35mm) Model HC5 Generators
	720-1148	8	Model HC5 Generators (M20 x 70mm)	63	850-0114-55	6	*Washer, Lock – Spring (M10) Model HC5 Generators
48			Spacer, Drive Disc	64	526-2120	6	*Washer, Flat (M10) Model HC5 Generators
	232-3520-01	2	Model HC4 Generators (3/8" Thk)	65	232-3782	1	*Block, Main Terminal – Model HC5 Generators
			Model HC5 Generators	66	232-3785-02	3	*Bar, Terminal Link – Model HC5 Generators
	232-3520-01	1	3/8" Thk	67	800-2084	1	*Screw, Cap – Hex Head (M10 x 16mm) Model HC5 Generators
	232-3775-02	1	1" Thk	68	800-2090	1	*Screw, Cap – Hex Head (M10 x 45mm) Model HC5 Generators
49	232-3522	4	Disc, Drive	69	800-0579	2	Screw, Cap – Hex Head (1-8 x 2-3/4")
50	232-3524	2	Spacer, Generator Foot – Model HC4 Generators	70	850-0086	2	Washer, Lock – Spring (1")
51			Foot, Generator	71	403-3338	2	Pad, Generator Mounting
	232-3722	1	"C" Channel Stock (7" x 26-7/8") (Illustrated)	72	332-3196	1	Clamp, "J"
			Bar Stock	73	850-0060	2	Washer, Lock – Spring (1/2")
	232-3966	1	6" x 35" (12 Holes)	74	800-0093	2	Screw, Cap – Hex Head (1/2-13 x 1-3/4")
	232-4011	1	6" x 26-3/8" (6 Holes)	75	800-0307	2	Screw, Cap – Hex Head (1-8 x 5")
52			Screw, Cap – Hex Head	76	403-4115	2	Spacer, Generator Mounting
	800-2244	4	Used With "C" Channel Generator Foot (M24 x 80mm)	77	526-0435	4	Washer, Flat (1")
			Used With Bar Stock Generator Foot	78	850-0086	2	Washer, Lock – Spring (1")
	800-2247	4	M24 x 100mm	79	862-0042	2	Nut, Hex (1-8)
	800-2242	4	M24 x 70mm	80	526-0450	8	Washer, Flat
53	232-3523	2	Bracket, Generator Lifting	* – Parts Included In Generator Stator Assemblies # – Parts Included In Generator Rotor Assemblies + – Parts Included In Exciter Rotor Assemblies			
54	800-3017-55	4	Screw, Cap – Hex Head (M12 x 35mm)				
55	850-0114-56	4	Washer, Lock – Spring (M12)				
56	338-3348	1	Harness, Wiring (5 Wire, 23") (4,5,6,7,8 to 4,5,6,7,8) (Not Used On All Models)				
57	800-0073	12	Screw, Cap – Hex Head (7/16-14 x 1-1/2")				
58	850-0055	12	Washer, Lock – Spring (7/16")				

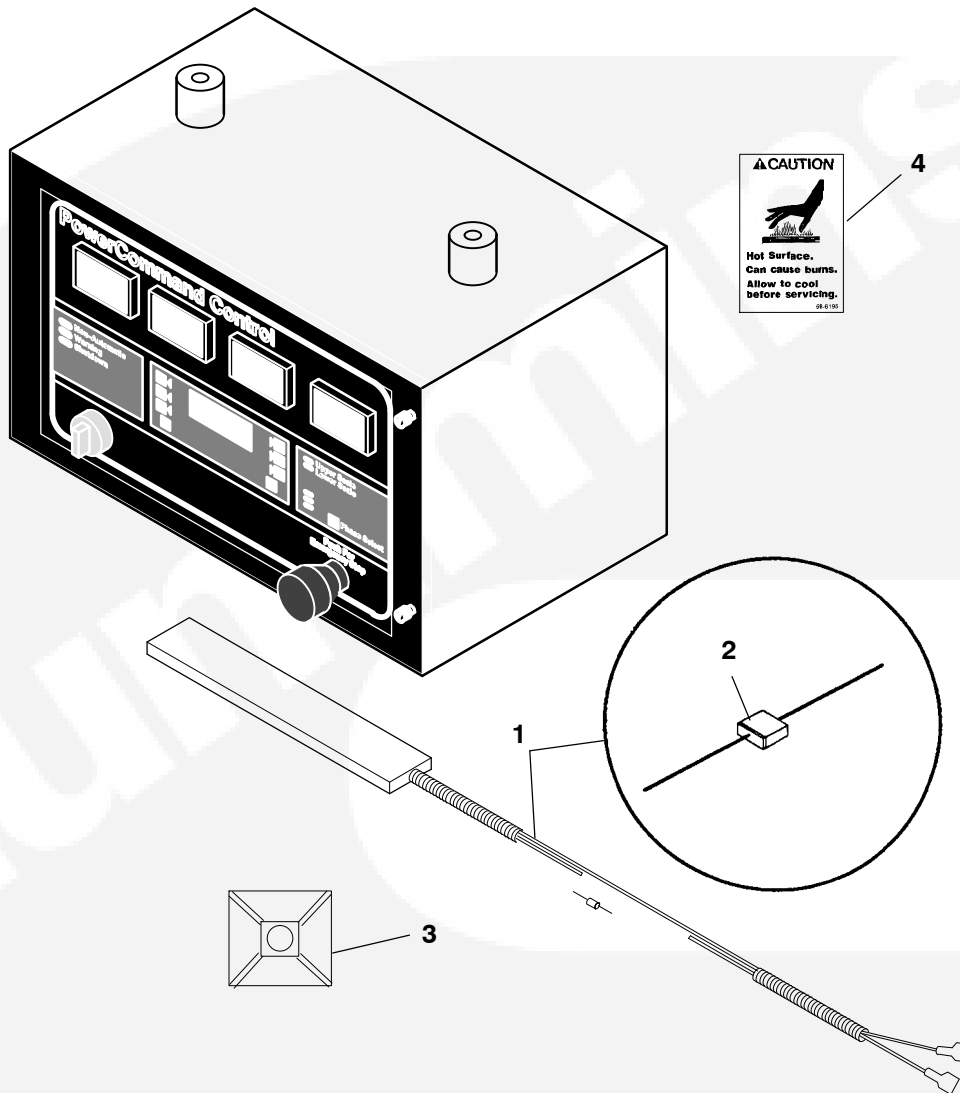
Control Assembly



Control Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5025-02	1	Cover, Control	10	405-7666-02	1	Cover, Access
2	319-5026-02	1	Cover, Control	11	508-1188	-	Edging - Bulk (Order by the Foot - 5 Feet Required)
3	319-5027-02	1	Cover, Control	12	319-4456-02	1	Bracket, Control (2100 Control)
4			Screw, Hex Head (M6 x 1 x 16)	13	319-4457	1	Panel, Control (2100 Control)
	821-6002-03	23	3100 Control	14	332-3196	2	Clamp, J (2100 Control)
	821-6002-03	25	2100 Control	15	821-6001-01	2	Screw, Cap - Hex Head (M8 x 1.25 x 14) (2100 Control)
5			Washer, Lock - W/EIT (3/8)	16	526-2100	4	Washer, Flat (M8) (2100 Control)
	856-0010	2	3100 Control	17	800-2054	4	Screw, Cap - Hex Head (M8 x 1.25 x 14) (2100 Control)
	856-0010	1	2100 Control	18	098-5347	2	Label, Danger
6	821-6003-01	3	Screw, Hex Head (M8 x 1.25 x 16) (3100 Control)	19	517-0131	2	Plug, Hole (2100 Control)
7	860-2008	2	Nut, Hex (M8 x 1.25) (3100 Control)	20	098-5347-01	1	Label, Danger (2100 Control)
8	850-0045	4	Washer, Lock - Split (5/16) (3100 Control)	21	815-0943-02	6	Screw, Head Washer Head - Thread Forming (2100 Control)
9	821-0014	4	Screw, Locking - Hex Head (5/16-18 x 1/2) (3100 Control)				

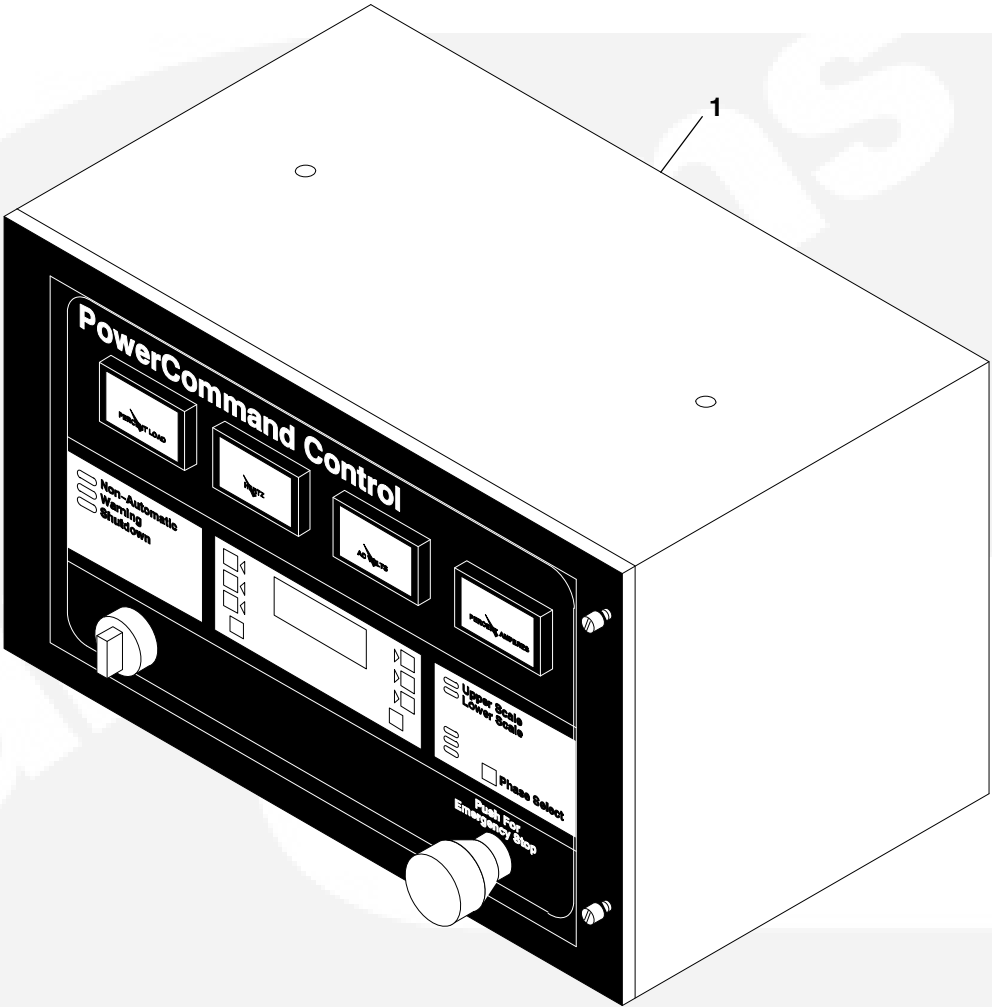
Control Heater PCC3100



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 100 Watt (Includes Rectifier)
	300-4515-01	1	120 Volt
	300-4515-02	1	240 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	357-0114	1	Rectifier (3 Amp)
3	332-2420	1	Mount, Cable
4	098-6195	1	Label, Caution

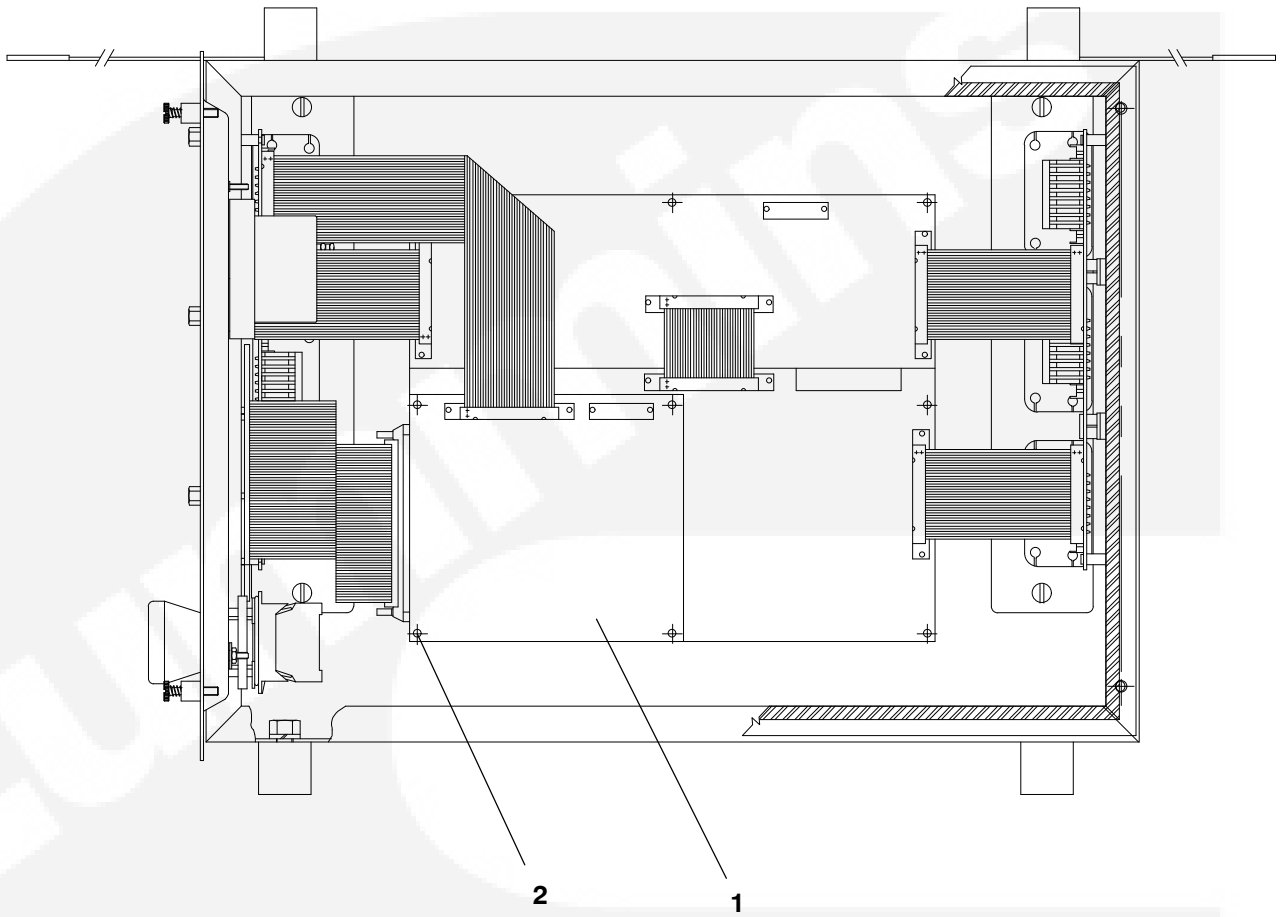
Control
PCC3100



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Control, PowerCommand

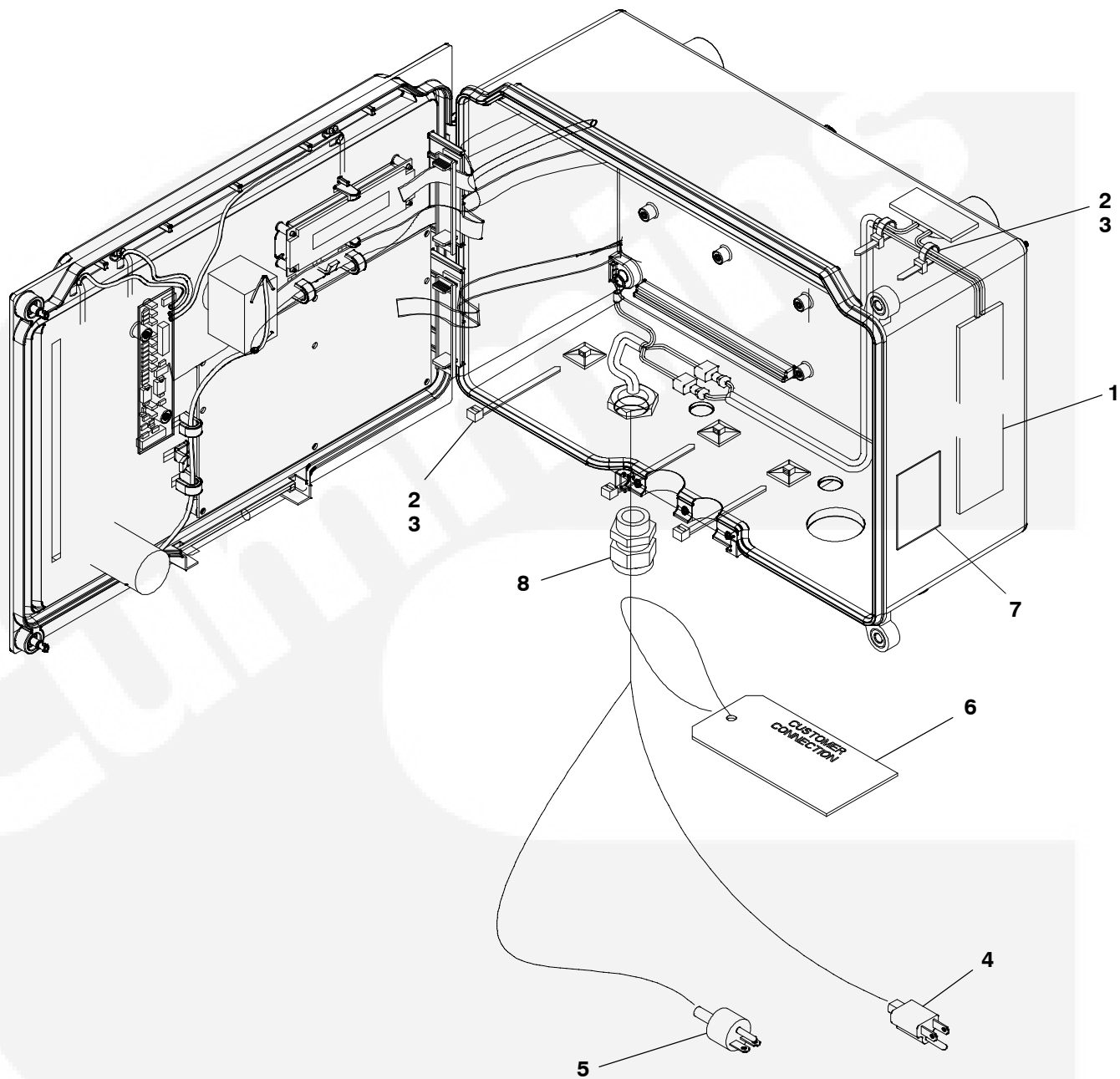
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Note: For PowerCommand Control Service Replacement Parts, Order PowerCommand Control For Generator Sets Parts Manual Number 960-0205.			

Genset Communications Module FT-10



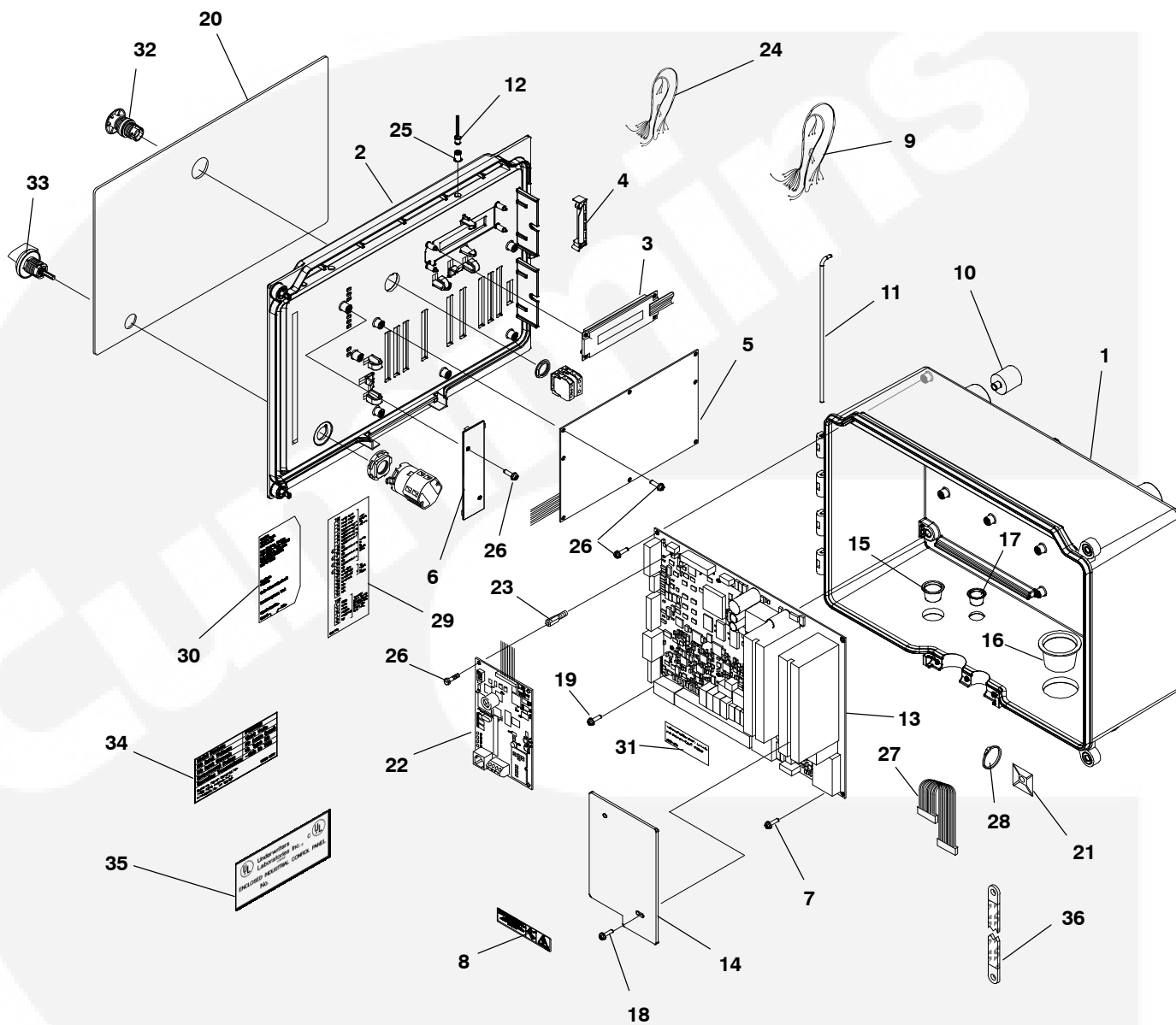
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1301	1	Board, Printed Circuit – Genset Communications Module	2	332-3235	4	Standoff, Printed Circuit Board (#6-32 x .75)

Control Heater
PCC2100



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0661-01	1	Heater, Control 120V	6	098-6927	1	Tag, Heater 120V
	333-0661-02	1	240V		098-6928	1	240V
2	332-2420	3	Mount, Cable Tie	7	098-6195	1	Label, Caution
3	332-1445	3	Tie, Cable	8	323-2003-02	1	Strain Relief
4	335-0173	1	Cable, Control Heater - 120V				
5	335-0173-01	1	Cable, Control Heater - 240V				

Control PCC2100

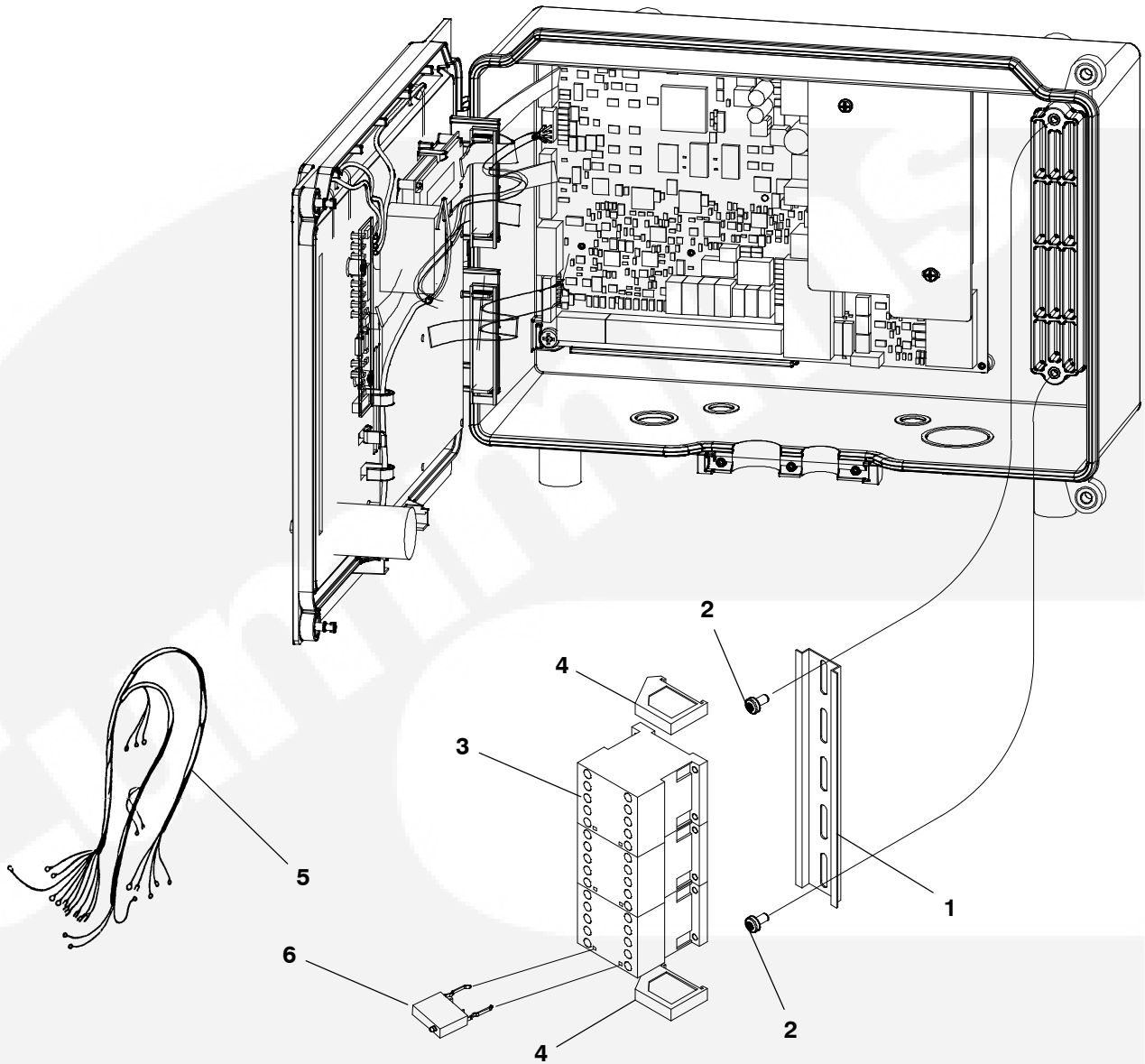


Control PCC2100

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4487	1	Box, Control	19	819-1144	2	Screw, Pan Head – Cross Recessed (M6 x 8)
2	319-4488	1	Door Control	20			Panel, Membrane
3	300-5467	1	Display, Digital		300-5446	1	With Bargraph
4	332-3896	4	Clamp, Cable		300-5447	1	Without Bargraph
5	300-5180	1	Board, Printed Circuit – Bargraph	21	332-2420	2	Mount, Cable Tie
6	300-5383	1	Board, Printed Circuit – LED	22	327-1275	1	Board, Printed Circuit – NCM
7	819-1137-02	4	Screw, Pan Head – Cross Recessed (M3 x 8)	23	870-2213-02	4	Standoff, Hex Threaded – With NCM
8	098-7904	2	Label, Danger	24	338-3994	1	Harness, Panel Light
9	338-3991	1	Harness, Control – Door	25	322-0488	3	Lens, LED
10	402-0764-01	4	Mount, Isolator	26			Screw, Pan Head – Cross Recessed (M3 x 6)
11	406-0845	1	Pin, Hinge		819-1137-01	9	Without Bargraph
12	322-0491	3	Lamp, LED		819-1137-01	15	With Bargraph
13	327-1379-01	1	Board, Printed Circuit – Base (Includes Fuses)	27	335-0189	1	Cable, Ribbon
	321-0321-06	1	Fuse, Fast – 10A	28	332-1445	3	Tie, Cable
	321-0321-04	1	Fuse, Fast – 5A	29	098-7918	1	Label, Information
	321-0321-01	1	Fuse, Fast – 2A	30	098-7961-01	1	Label, Information – Panel Insert
14	319-4497	1	Guard, Electrical	31	098-7989	1	Label, Instruction – Torque
15	517-0356	1	Plug, Hole (Fits 22.5mm DIA. Hole)	32	308-0999	1	Switch, Emergency Stop
16	517-0357	1	Plug, Hole (Fits 38mm DIA. Hole)	33	308-1085	1	Switch, Selector
17	517-0355	2	Plug, Hole (Fits 16mm DIA. Hole)	34	098-8057	1	Label, Information – Rating
18	815-0792-02	2	Screw, Machine – Pan Head (M4 x 0.7 x 8)	35	098-6984	1	Label, UL
				36	337-0049	1	Strap, Bond

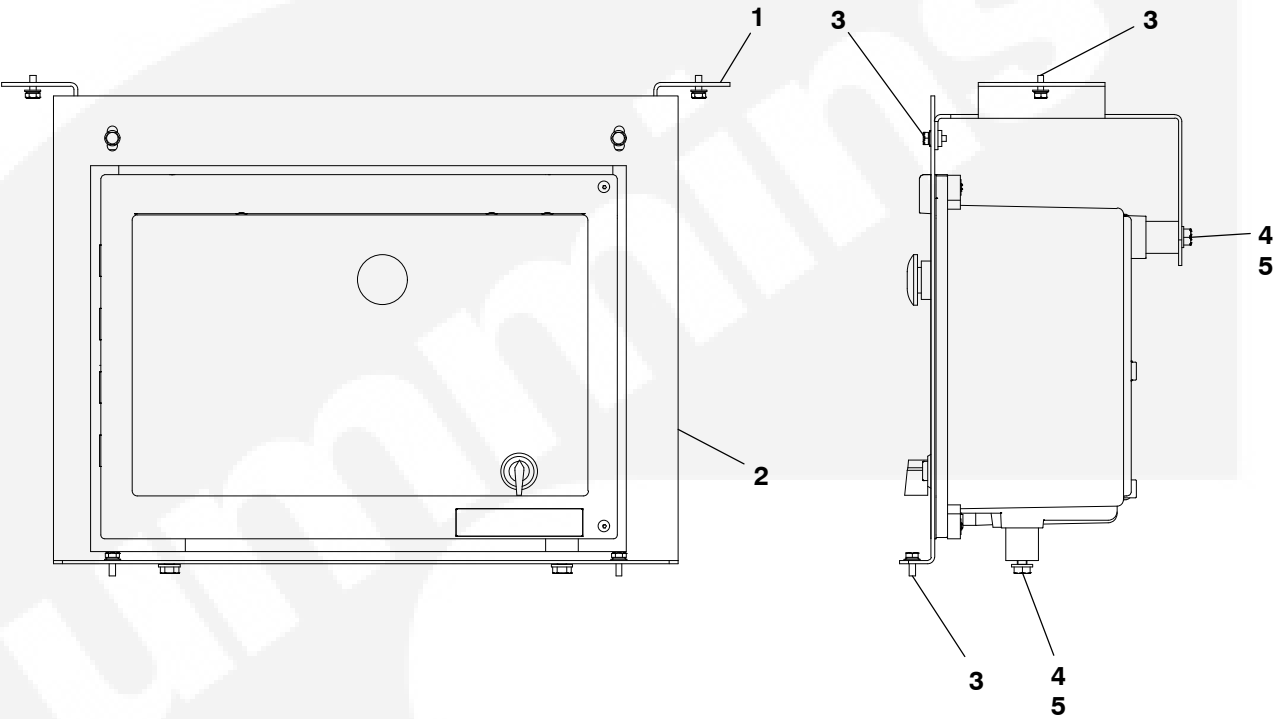


Control Relay



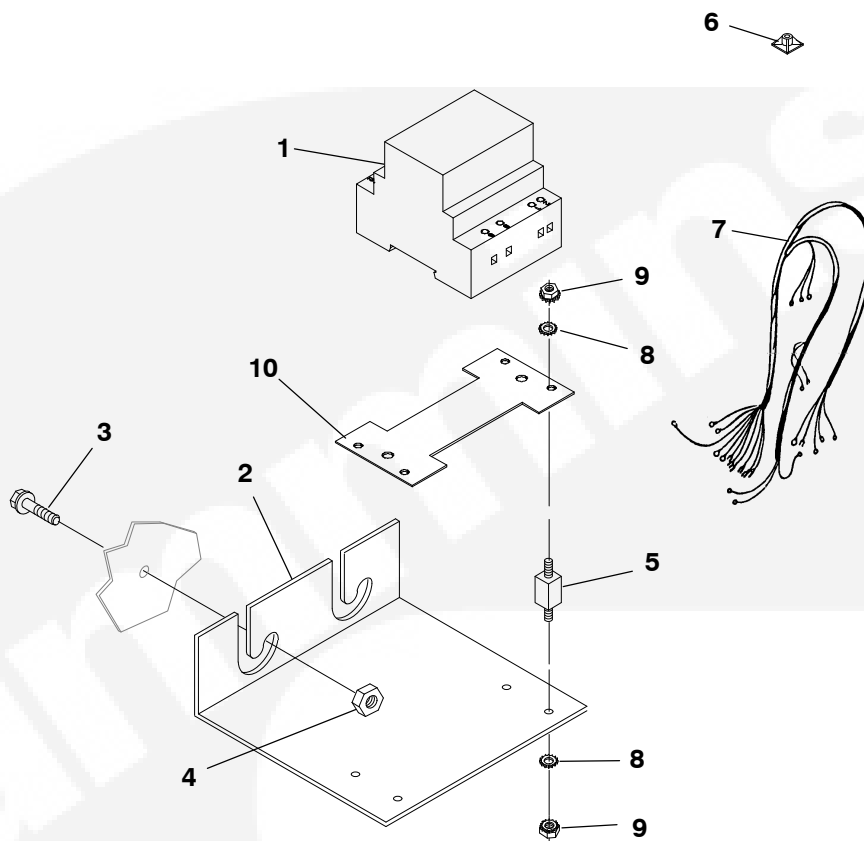
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3842-01	1	Rail, Terminal Block	4	332-2878	2	Bracket, End - Terminal
2	819-1154	2	Screw, Cross Recessed - Pan Head (M5)	5	338-4438	1	Harness, Relay
3	307-2874	3	Relay, Control - 24V (K10, K11, K12)	6	305-1009	3	Suppressor, Voltage

Control Installation



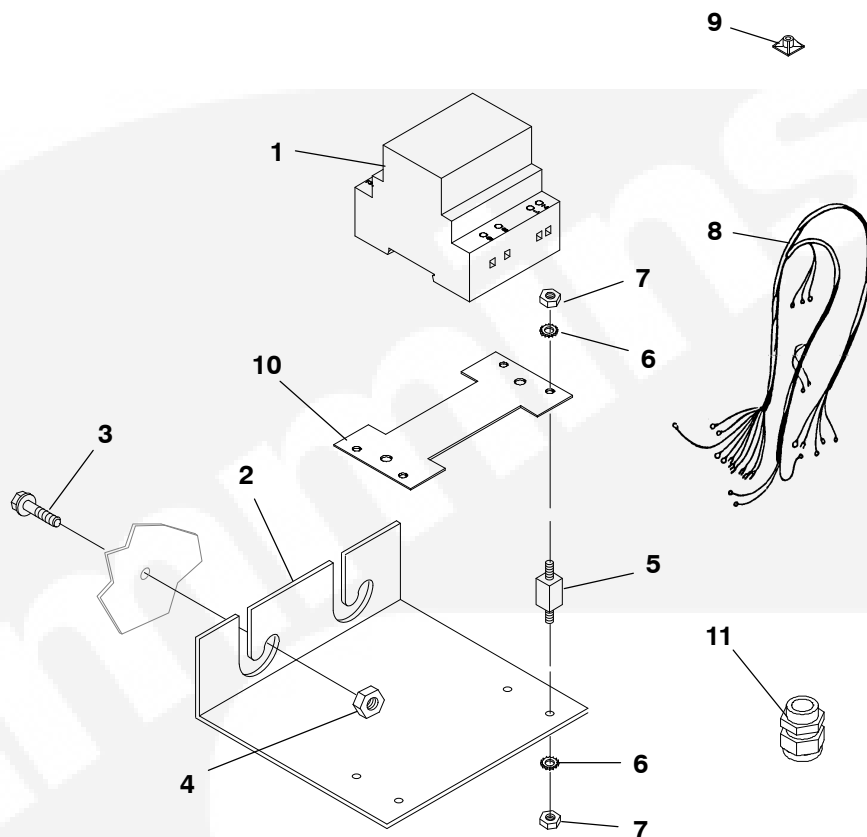
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-7246-02	1	Rail, Enclosure – Control	4	526-2100	4	Washer, Flat (M8)
2	405-7248-02	1	Panel, Enclosure – Control	5	800-2054	4	Screw, Cap – Hex Head (M8 x 1.25 x 14)
3	821-6002-02	6	Screw, Hex Head (M6 x 1.0 x 12)				

Ground Fault Relay Generator Sets With PCC3100



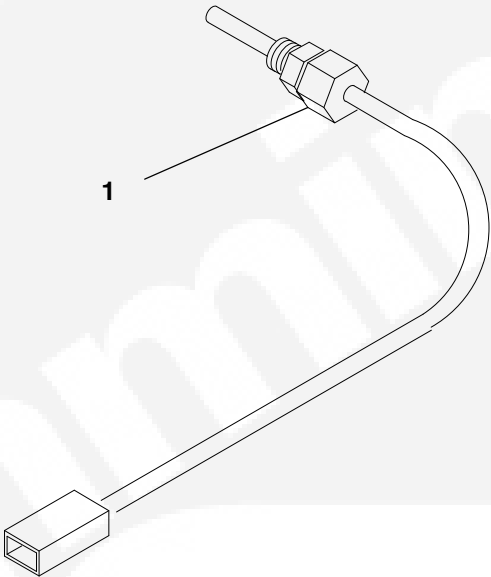
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay (GFA)	6	332-2420	2	Mount, Cable Tie
2	301-6987	1	Bracket, Mounting	7	338-3232	1	Harness, Wiring
3	821-0017	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	8	853-0005	8	Washer, Lock - ET (#8)
4	870-0257	2	Nut, Hex - Self-Locking (5/16-18)	9	870-0221	8	Nut, Hex - W/ET (#8-32)
5	402-0354	4	Mount, Shock	10	319-5038-02	1	Plate, Mounting

Ground Fault Relay Generator Sets With PCC2100



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay (GFA)	6	853-0005	8	Washer, Lock - EIT (#8)
2	301-6987	1	Bracket, Mounting	7	870-0221	8	Nut, Hex (#8-32)
3	821-0017	2	Screw, Self-Locking - Hex Washer Head (5/16-18 x 1/2")	8	338-4245	1	Harness, Wiring
4	870-0257	2	Nut, Hex - Self-Locking (5/16-18)	9	332-2420	2	Mount, Cable Tie
5	402-0354	4	Mount, Shock	10	319-5038-02	1	Plate, Mounting
				11	323-2003-01	1	Strain, Relief

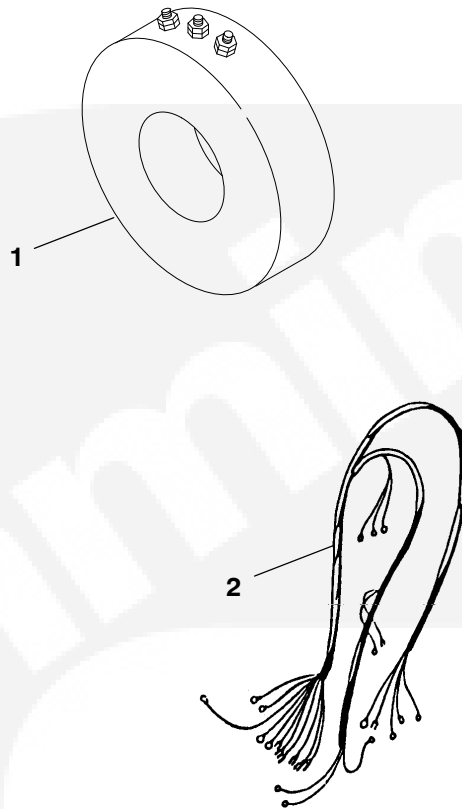
Pyrometer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-01	1	Pyrometer (12") (M26)				

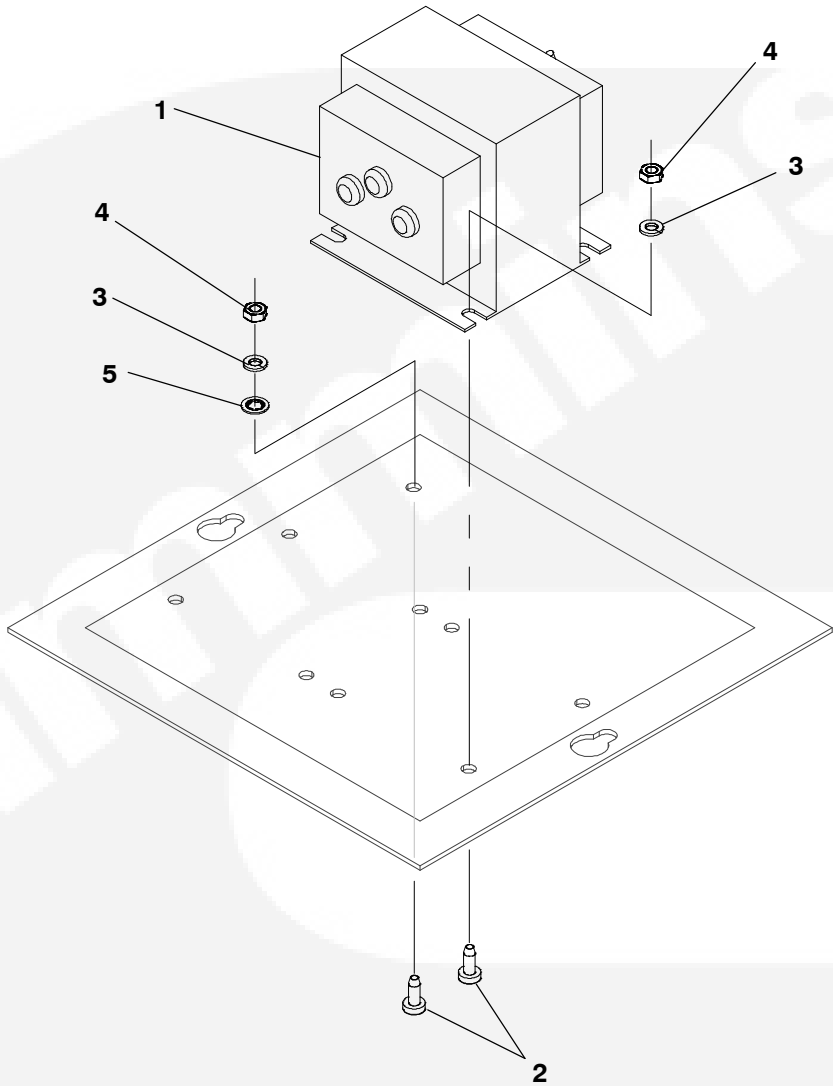


Current Transformer



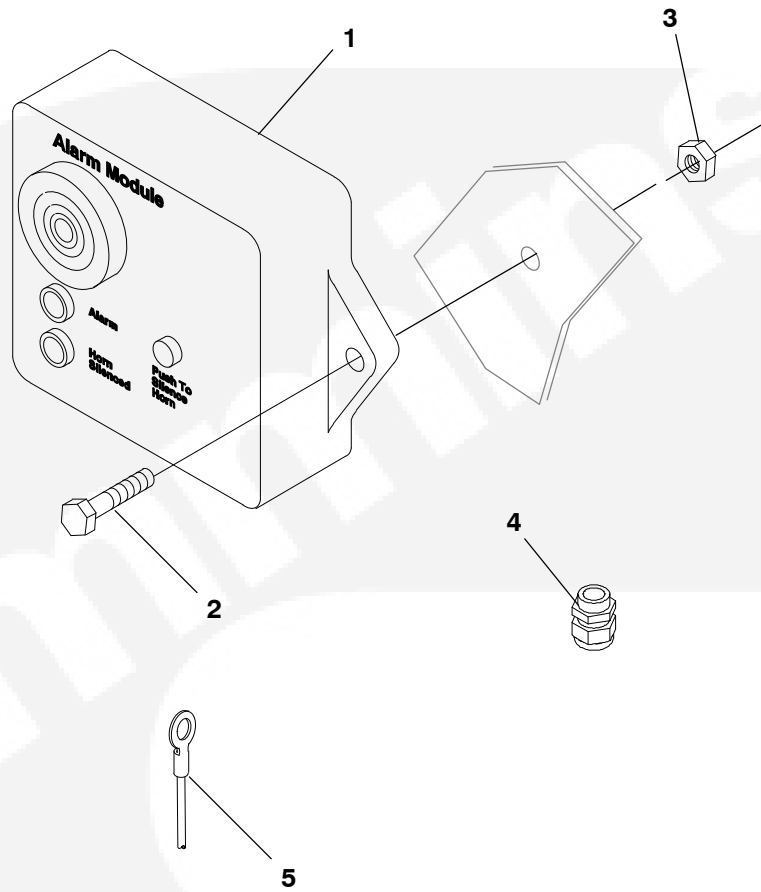
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2	338-3019		Harness, Transformer –
	302-2057-18	3	Ratio 656/1 or 1312/1				Generator Sets With
	302-2057-23	3	Ratio 867/1 or 1734/1				PCC3100
	302-2057-24	3	Ratio 946/1 or 1892/1				
	302-2057-27	3	Ratio 1104/1 or 2208/1				
	302-2057-29	3	Ratio 1262/1 or 2524/1				

24VAC Transformer



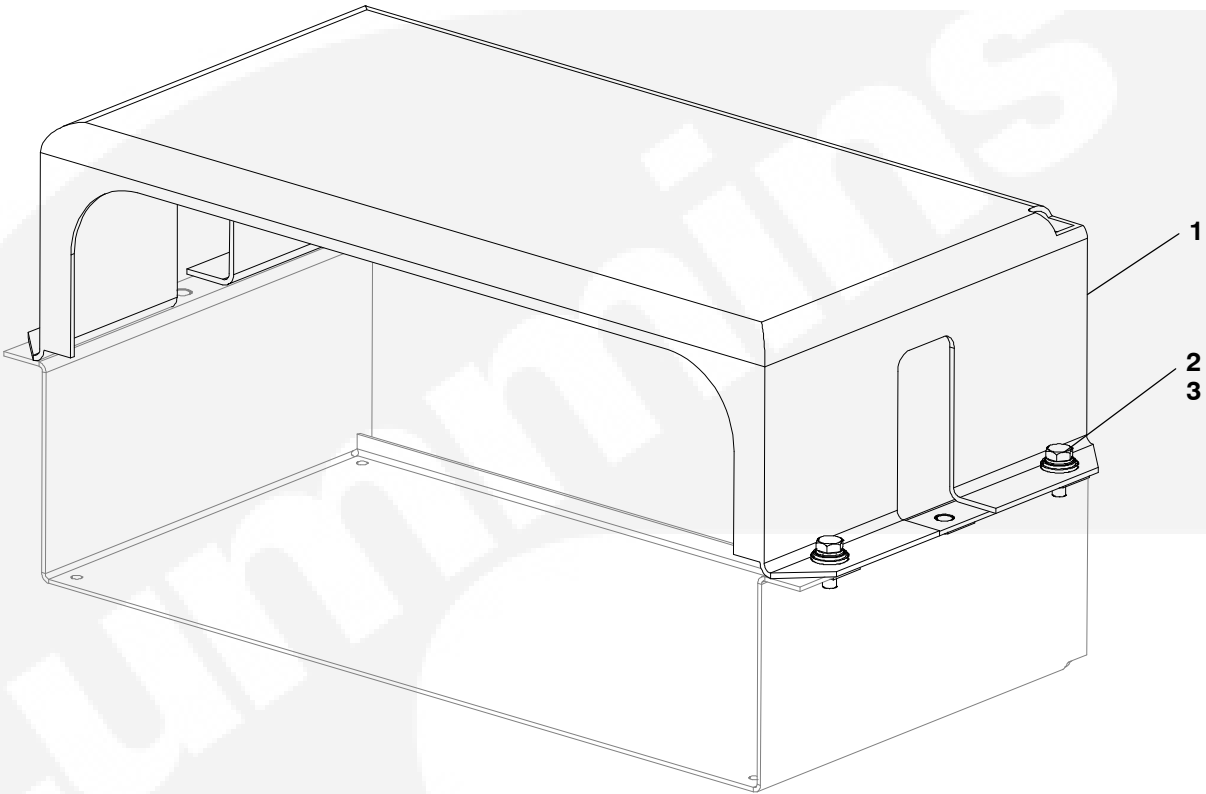
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-1613	2	Transformer, Control	3	850-2003	5	Washer, Lock – Split (M3)
2	815-0959-03	5	Screw, Cross Recessed – Pan Head – W/ET (M3 x 0.5 x 8)	4	860-2053	5	Nut, Hex (M3 x 0.5)
				5	854-0006	1	Washer, Lock – W/EIT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

Alarm Module



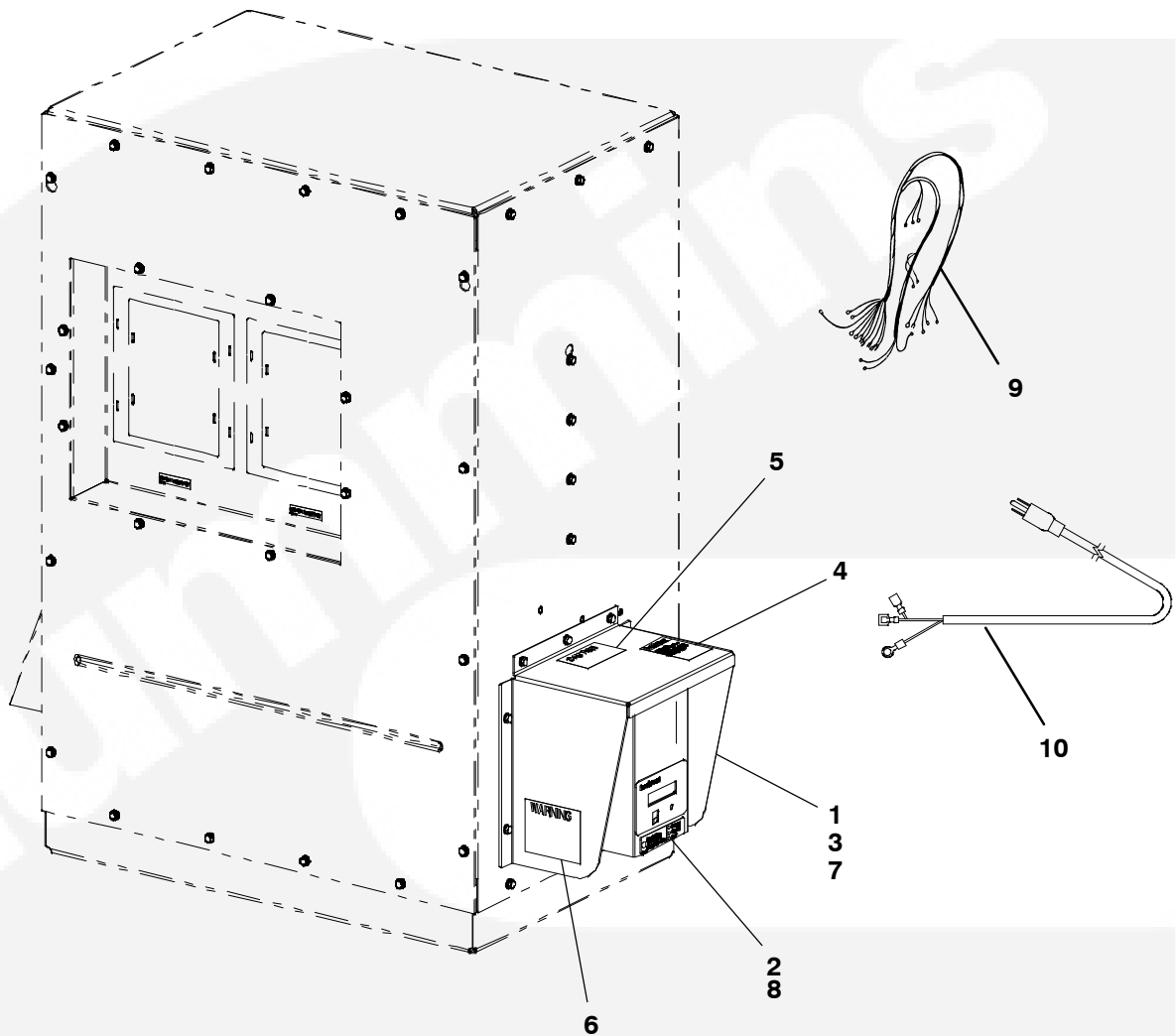
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3998-01	1	Module, Alarm (24V)	3	870-2054	2	Nut, Lock (M6 x 1)
2	821-2034	2	Screw, Lock - Flange Head (M6 x 1 x 20)	4	323-2003-01	1	Strain Relief
				5	226-4696	1	Lead

Battery Cover



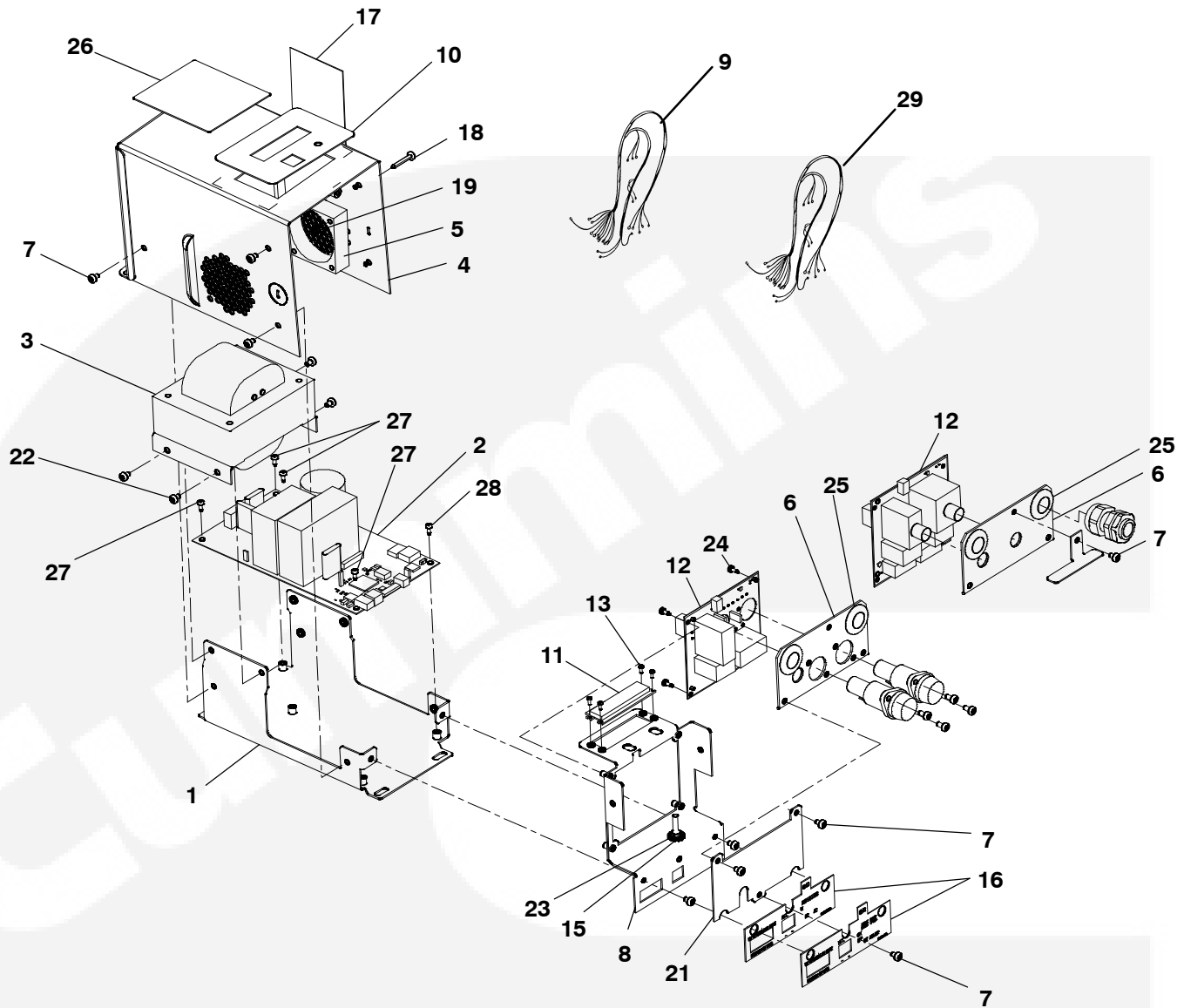
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1068	1	Cover, Battery Tray	3	821-5004-02	4	Screw, Hex Head (3/8-16 x .75)
2	526-0399-42	4	Washer, Flat				

Battery Charger Mounting



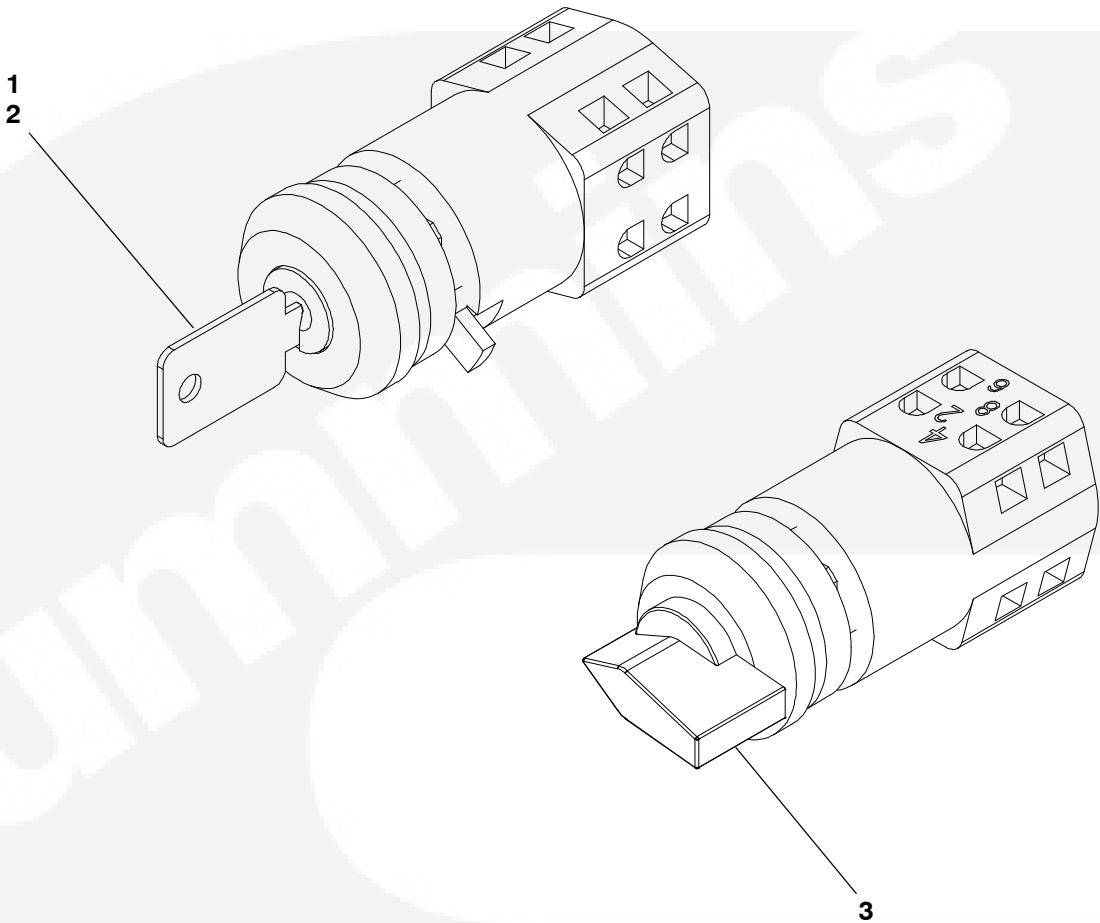
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0027	2	Connector, Romex	6	098-6162	1	Label, Warning
2	A029Y213	1	Control - Complete - See Separate Page for Components	7	821-6002-03	7	Screw, Hex Head (M6 x 1 x 16)
3	319-5747-02	1	Cover, Control	8	821-6001-02	4	Screw, Hex Head (M5 x 0.8 x 12)
4	098-6161	1	Label, Danger	9	338-4300-02	1	Harness, Battery Charger
5	098-6387	1	Label, Caution	10	335-0173-06	1	Cable

15 Amp Charger



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029S462	1	Enclosure, Chassis Base	13	812-0003	4	Screw, Machine – Round Head (#2-56 x 1.4)
2	327-1403	1	Board, Printed Circuit – Control	14	323-1678-02	1	Connector, Plug
3	315-1634	1	Transformer, Power – 120, 208, 240, 277VAC	15	856-0002	2	Washer, Lock – W/EIT (#8)
4	A030H723	1	Cover, Enclosure	16	098-8866	1	Label, Information
5	205-0309	1	Fan	17	098-8244	1	Label, Warning
6	404-0568	1	Cover, Access	18	823-0002-08	2	Screw, Pan Head – Torx (M4 x 0.7 x 25)
7	823-1001-01	12	Screw, Machine – Pan Head (M4 x 0.7 x 6)	19	860-2005	2	Nut, Hex (M4 x .7)
8	306-5281	1	Bracket	20	332-1794	2	Tie, Cable
9	338-4444	1	Harness, Wiring – Printed Circuit Board (Base to Power I/O) (Includes 323-2163 Plug Connector – Not Shown)	21	404-0569	1	Cover, Access
10	300-6430	1	Panel, Control (Battery Charger Overlay)	22	814-2145	4	Screw, Flat Head (M4 x 0.7-16)
11	300-5877	1	Display, Control (Charger LCD)	23	860-0008	1	Nut, Hex (#8)
12	327-1713	1	Board, Printed Circuit – Power I/O	24	815-0959-03	4	Screw, Pan Head (M3)
				25	508-0071	2	Grommet, Rubber
				26	098-8809	1	Label, Certification
				27	A030E099	4	Screw, Pan Head
				28	A030T486	1	Screw, Fillister Head
				29	A030G949	1	Harness, Battery Charger

Operator Switch

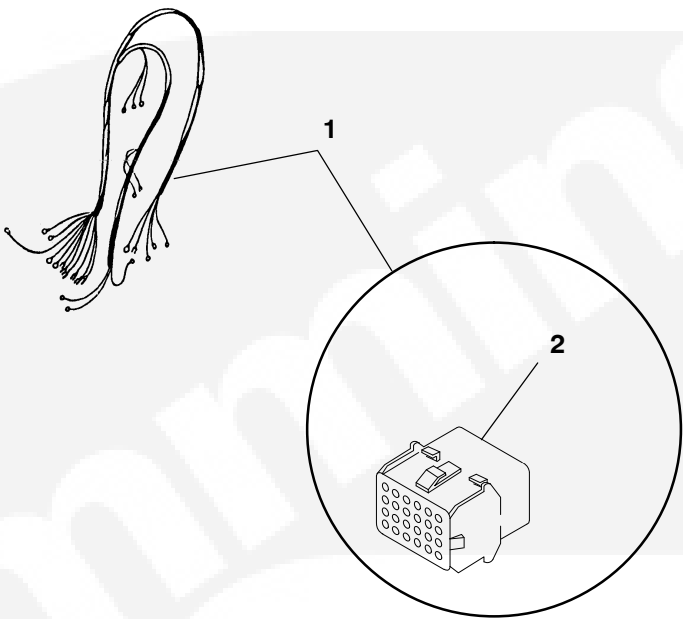


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator
2	308-1046	2	Key - Spare

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



AC Wiring Harness

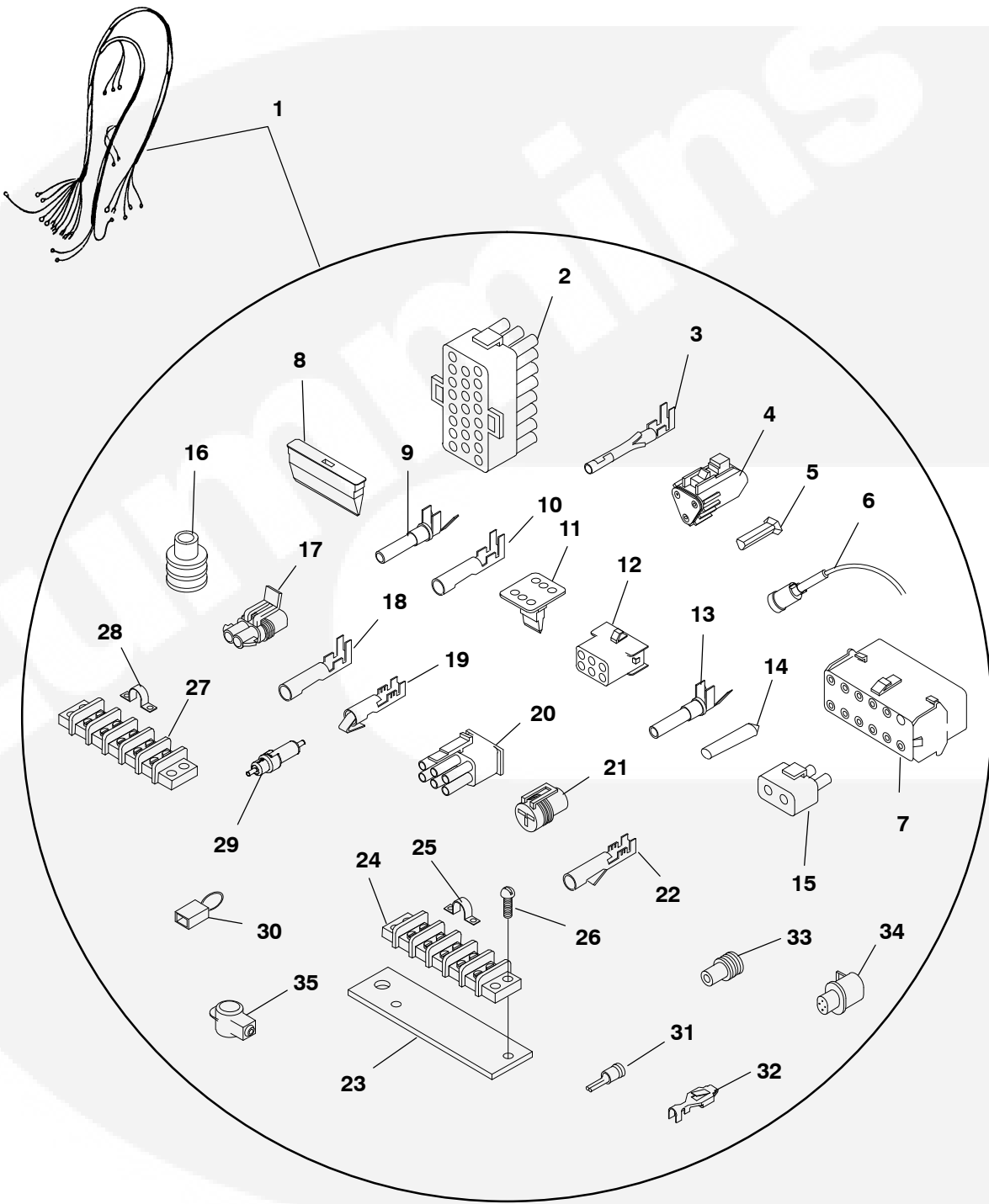


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4186		Harness, Wiring – PMG (Includes Plug)	2	323-1523	1	Plug, Connector (24 Place)

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**Wiring Harness
Engine to Control
Generator Sets With PCC3100**



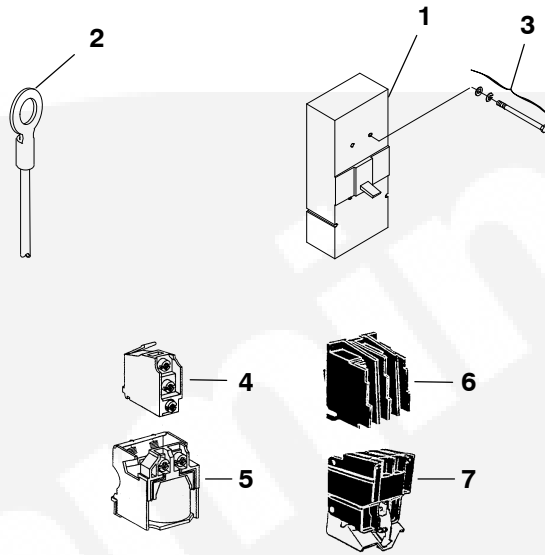
**Wiring Harness
Engine to Control
Generator Sets With PCC3100**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4057	1	Harness, Wiring – Engine To Control – Generator Sets With PCC3100 (Includes All Parts Listed Below Except As Noted In The Description)	20	323-1643-01	1	Plug, Connector (6 Place) (P10)
2			Plug, Connector (23 Place)	21	323-1666	1	Socket, Connector (3 Place) (E1)
	323-1605-03	1	Colored Grey (P5)	22	323-1667	1	Socket, Contact (Used In E1)
	323-1605-02	2	Colored Natural (P4, P6)	23			Bracket, Mounting – Terminal Marked “26” (T26)
3	323-1614-01	50	Socket, Contact (Used In P4, P5, P6)		319-2006-01	1	Marked “GND” (GND-ENG)
4	323-1493	1	Plug, Connector (3 Place)	24	332-0604	2	Block, Terminal (5 Place)
5	323-1503	1	Wedge (Used In P3)	25	332-1043	8	Jumper
6	338-2592-01	1	Cable, Magnetic Pickup (84”) (Includes Indented Sockets Listed Below) (P1)	26	815-0538	4	Screw, Machine – Round Head – W/IT (#8-32 x 1/2”) (TB-BAT)
	323-1614-01	3	Socket, Contact	27	332-0604	1	Block, Terminal (5 Place) (TB-BAT)
7	323-1580	1	Housing, Connector (12 Place) (J12)	28	332-1043	3	Jumper (Used On TB-BAT)
8	323-1581	1	Wedge (Used In J12)	29	321-0370	1	Holder Assembly, Fuse (Used On TB-BAT) (Includes Indented Parts Listed Below)
9	323-1491	6	Pin, Contact		321-0371	1	Holder, Fuse
10	323-1648	5	Socket, Contact (Used In P10)		321-0372-07	1	Fuse – 20 Amp (Cartridge Type)
11	323-1624	1	Wedge (Used In P7)	30	338-3285	1	Harness Assembly, Jumper (Includes Parts Indented Below) (Used On E6)
12	323-1623	1	Plug, Connector (6 Place) (P7)		323-1652	1	Socket, Connector (2 Place)
13	323-1492	9	Socket, Contact		323-1445	2	Seal
14	323-1615	1	Plug (Used In P4, P5, P6) (Quantity Used As Required)		323-1718	2	Pin, Contact
15	323-1637	1	Socket, Connector (2 Place) (E6)	31	332-3496	2	Pin, Contact
16	323-1445	3	Seal, Cable (Used In E2, E4, E6)	32	323-1709	4	Socket, Contact
17	323-1540	2	Socket, Connector (2 Place) (E2, E4)	33	323-1708	4	Seal, Cable
18	323-1444	2	Socket, Contact (Used In E6)	34	323-1765	1	Housing, Connector
19	332-3096-01	4	Socket, Contact (Used In E2, E4)	35	416-1021-03	2	Boot

This diagram illustrates the exploded view of a cable assembly, with components numbered 1 through 21. The components are as follows:

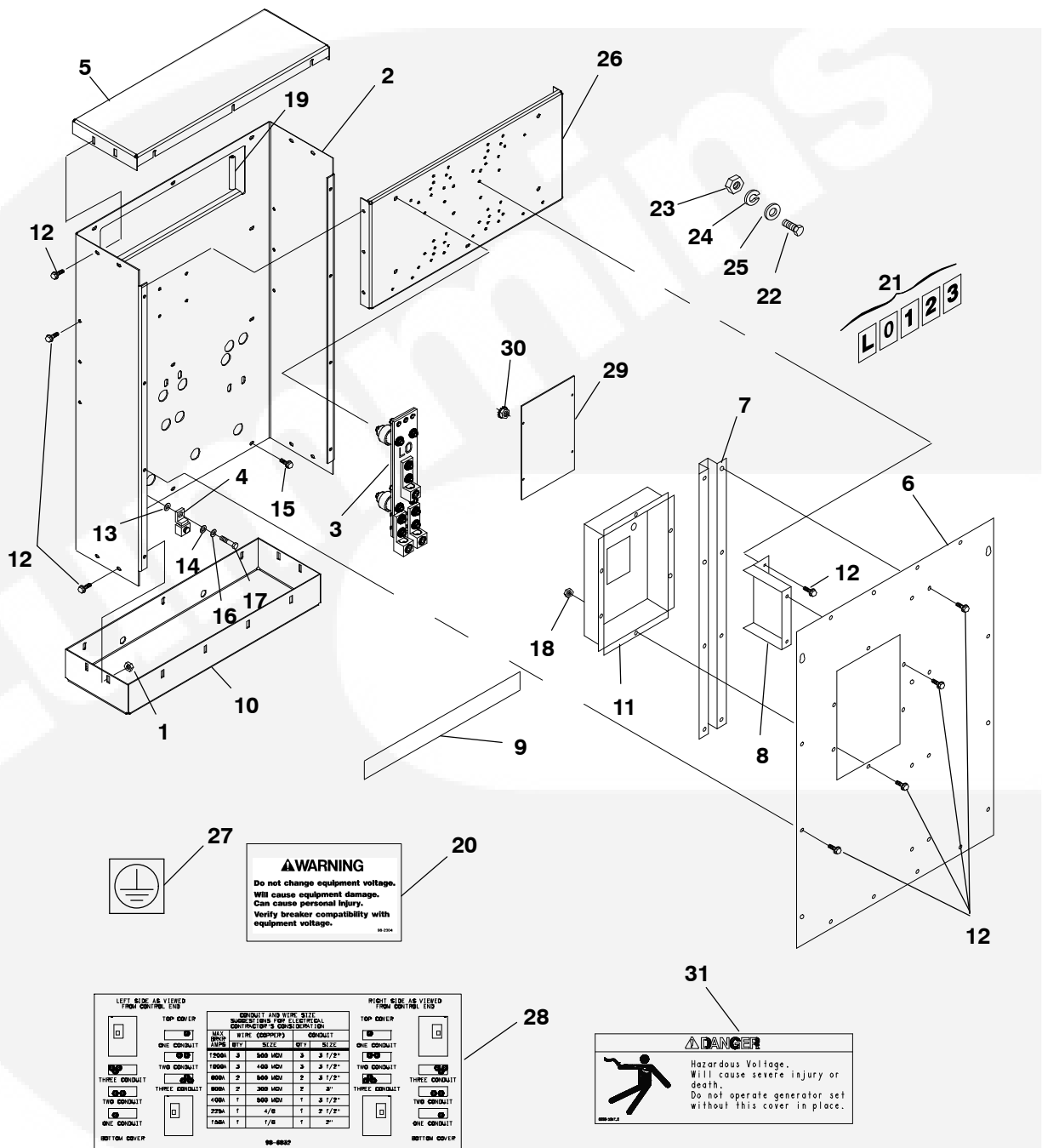
- 1:** A bundle of multiple individual wires.
- 2:** A small rectangular component, likely a connector or plug.
- 3:** A component with a rectangular body and a protruding pin or connector.
- 4:** A small, L-shaped component, possibly a bracket or clip.
- 5:** A rectangular component with a grid of small holes, likely a terminal block or connector plate.
- 6:** A component with a cylindrical base and a protruding pin.
- 7:** A component with a rectangular body and a protruding pin.
- 8:** A small, L-shaped component, possibly a bracket or clip.
- 9:** A small, cylindrical component, possibly a pin or screw.
- 10:** A rectangular plate with multiple mounting holes, likely a base plate or terminal block.
- 11:** A rectangular plate with multiple mounting holes, likely a base plate or terminal block.
- 12:** A small, cylindrical component, possibly a pin or screw.
- 13:** A component with a long, thin body and a protruding pin.
- 14:** A small, L-shaped component, possibly a bracket or clip.
- 15:** A small, cylindrical component, possibly a pin or screw.
- 16:** A small, cylindrical component, possibly a pin or screw.
- 17:** A small, cylindrical component, possibly a pin or screw.
- 18:** A small, L-shaped component, possibly a bracket or clip.
- 19:** A small, cylindrical component, possibly a pin or screw.
- 20:** A small, cylindrical component, possibly a pin or screw.
- 21:** A small, rectangular component, likely a connector or plug.

Circuit Breaker **UL Listed, IEC Conformity**



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			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)
			Circuit Breakers	226-4406-03	1		1/2" Ring Terminal End to 1" Stripped End
			3 Pole (UL, IEC)	226-4406-04	1		1/2" Ring Terminal End to 1/2" Ring Terminal End
320-1960-06	1		300 Amp	3			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)
320-1960-05	1		350 Amp				
320-1960-04	1		400 Amp	320-1986-07	1		Used With 320-1960-XX Circuit Breakers
320-1960-03	1		450 Amp				Accessories, Circuit Breaker:
320-1960-02	1		500 Amp				The following are used on 320-1960-XX Circuit Breakers
320-1960-01	1		600 Amp	4	320-1981-01	1	Switch – Used as a Trip Alarm or Auxiliary Contact
320-2182-01	1		800 Amp	5	320-1981-03	1	24 Volt Shunt Trip
320-2261-02	1		800 Amp				Accessories, Circuit Breaker:
320-2183-01	1		1200 Amp				The following are used on R & P Circuit Breakers
320-2262-02	1		1200 Amp	6	320-2196-01	2	SPDT Switch
			4 Pole (IEC)	7	320-2196-02	1	24 Volt Shunt Trip
320-1960-10	1		320 Amp				
320-1960-09	1		400 Amp				
320-1960-08	1		500 Amp				
320-1960-07	1		630 Amp				

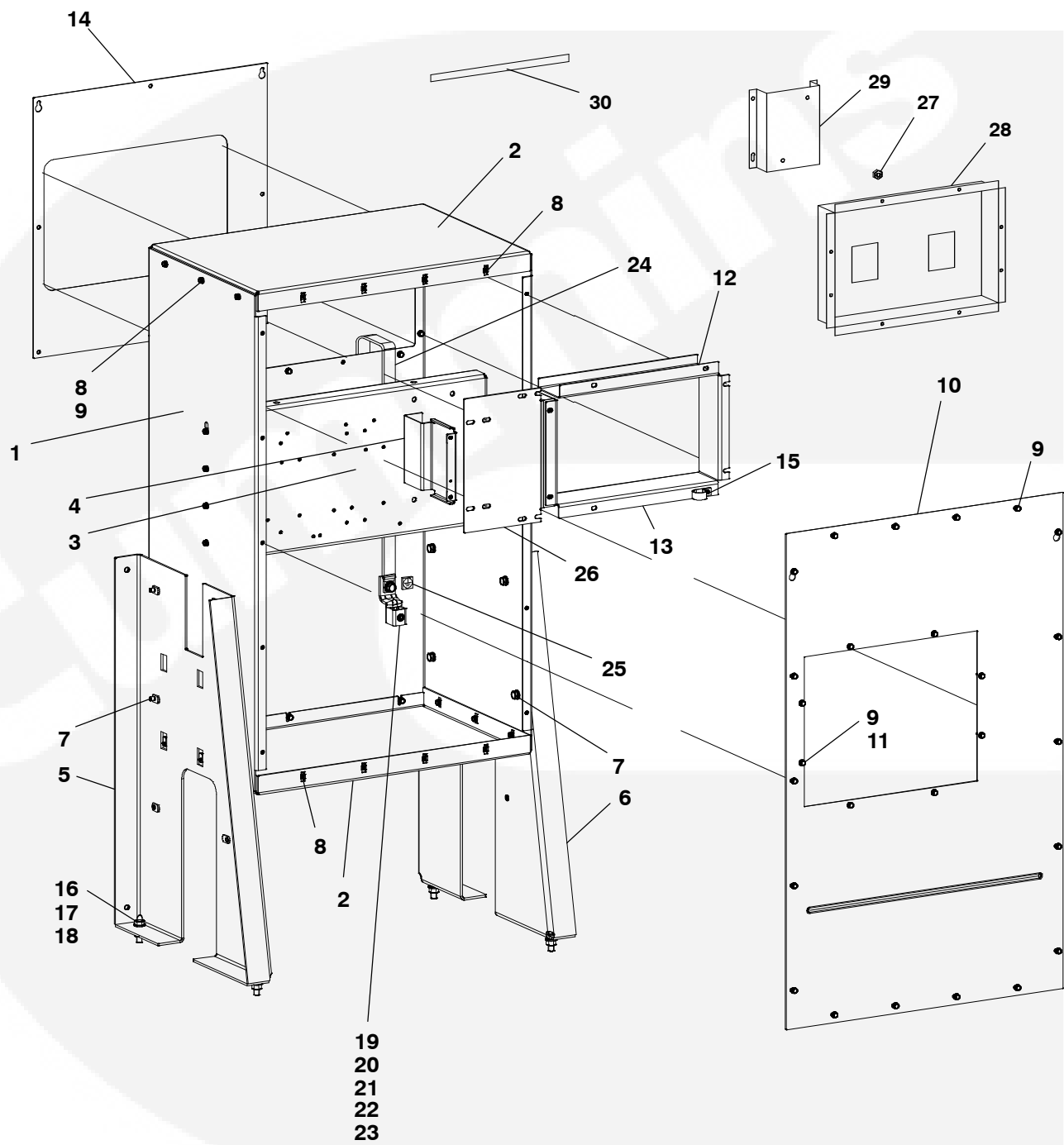
Circuit Breaker Box (Without Enclosure or With F184 Enclosure)



Circuit Breaker Box (Without Enclosure or With F184 Enclosure)

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	337-3515-01	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	Cover, Circuit Breaker		098-5854-06	1	Marked "L"
			All Except 4 Pole Switches Mounted on the Right Side When Facing Control		098-5854-07	1	Marked "1"
	319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control		098-5854-08	1	Marked "2"
7	319-3284	1	Brace, Access Door		098-5854-09	1	Marked "3"
8	319-3333	1	Brace, Cover		098-5854-10	1	Marked "0"
9	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)				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.
10	319-3183	1	Cover, Circuit Breaker Box	22	800-2116	A/R	Screw, Cap – Hex Head (M12 x 50mm)
11			Cup	23	860-2010	A/R	Nut, Hex (M12)
	319-2431-27	1	1-7/8" x 3-1/32" Opening	24	850-2012	A/R	Washer, Lock – Spring (M12)
	319-2431-31	1	2-1/2" x 4-9/16" Opening	25	526-2140	A/R	Washer, Flat (M12)
	319-2431-30	1	3-5/16" x 4-3/8" Opening	26	319-5491-02	1	Bracket, Circuit Breaker Mounting
	319-2431-31	1	2-1/2" x 4-9/16" Opening	27	098-6537	1	Label, Ground
	319-2431-37	1	7.17" x 8.00" Opening	28	098-6832	1	Label, Conduit Location
12	821-6002-03	53	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	29	877-0364-02	1	Sheet, Insulation – Fiberglass (P-Frame)
13	856-0010	1	Washer – W/EIT	30	870-0131	4	Nut, Hex – W/ET (#10-32) (P-Frame)
14	526-2120	1	Washer, Flat (M10)	31	098-5347	1	Label, Danger
15	821-2034	2	Screw, Lock (M6 x 1.0 x 20)				
16	850-2010	1	Washer, Lock – Spring				

**Circuit Breaker Box
(With F200 – F205 Enclosure)
DFBF, DFCB, DFCC Spec Y
DFCE Spec H**



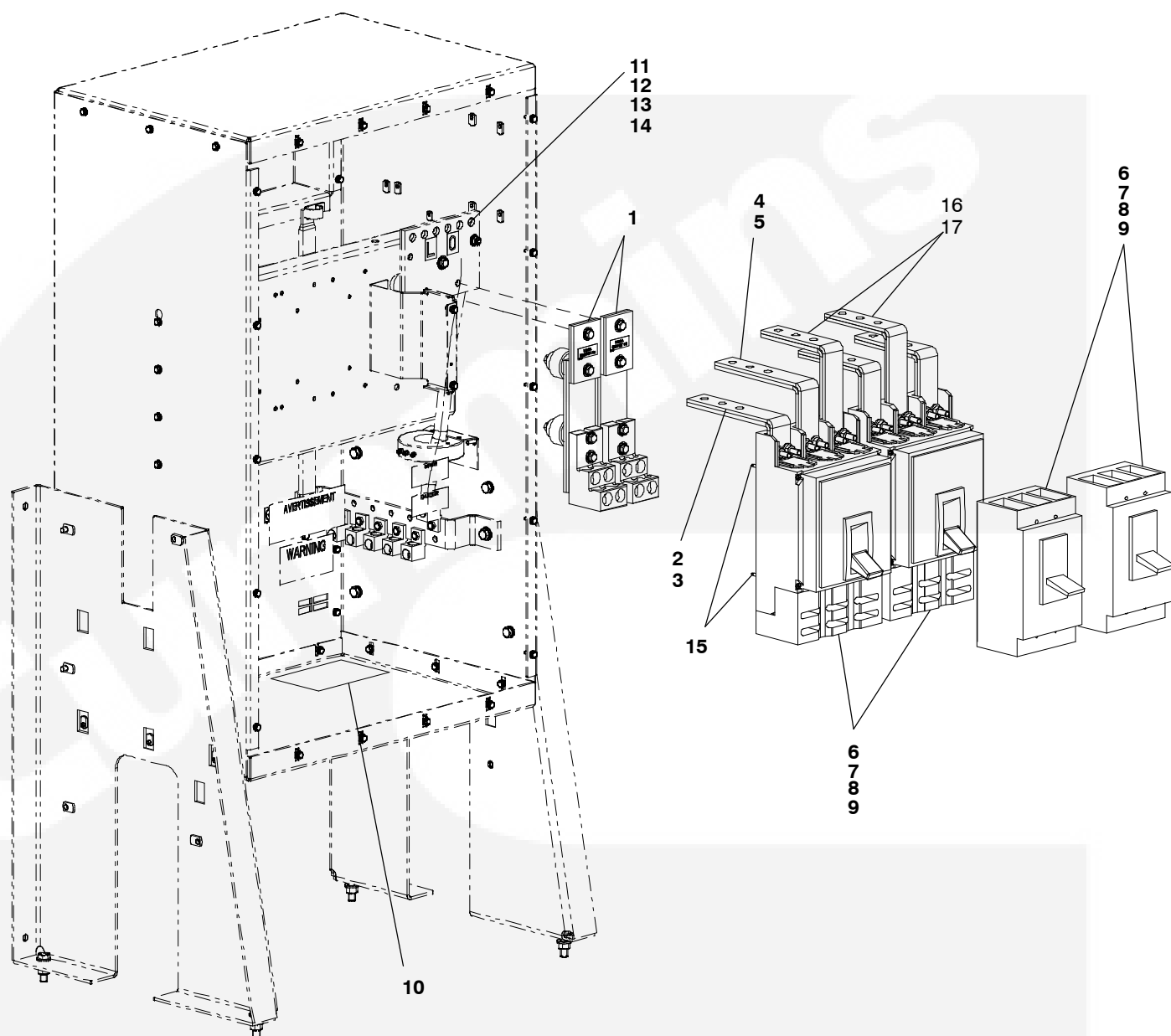
Circuit Breaker Box
(With F200 – F205 Enclosure)
DFBF, DFCB, DFCC Spec Y
DFCE Spec H

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5106-02	1	Box, Circuit Breaker	21	526-0399-62	1	Washer, Flat (M10)
2	319-4983-02	2	Cover, Box	22	850-0114-55	1	Washer, Lock – Split (M10)
3	319-4955-02	1	Bracket, Circuit Breaker – Mounting	23	800-3017-39	1	Screw, Cap – Hex Head (M10 x 1.5 x 35)
4	319-4979-02	1	Bracket, Circuit Breaker	24	337-3538-03	1	Strap, Ground
5	319-5092-02	1	Bracket, Circuit Breaker	25	098-6537	1	Label, Ground
6	319-5093-02	1	Bracket, Circuit Breaker	26	319-5140-02	1	Cover, Circuit Breaker
7	821-6004-01	8	Screw, Hex Head (M10 x 1.5 x 20)	27	870-2054	4	Nut, Hex – Flange (M6)
8	870-0504	14	Nut, Captive – Floating	28	319-4962-02	1	Cup, Circuit Breaker CK – 84mm x 112mm Opening
9	821-6002-03	66	Screw, Hex Head (M6 x 1 x 16)		319-4964-02	1	NSF – 31mm x 77mm Opening
10	319-5112-02	1	Cover, Circuit Breaker		319-4965-02	1	NSJ – 64mm x 116mm Opening
11	870-2054	6	Nut, Locking – Flange (M6 x 1)		319-4967-02	1	CK and NSJ – 84mm x 112mm Opening
12			Cover, Circuit Breaker		319-4968-02	1	CK and NSF – 84mm x 112mm Opening
	319-5113-02	1	4CDE Generator		319-4969-02	1	NSJ and NSF – 64mm x 116mm Opening
	319-5115-02	1	4F Generator	29	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
13			Cover, Circuit Breaker				Bracket, Circuit Breaker – Riser – NSF
	319-5114-02	1	4CDE Generator				
	319-5116-02	1	4F Generator				
14			Cover, Circuit Breaker				
	319-5108-02	1	4CDE Generator				
	319-5109-02	1	4F Generator				
15	518-0548-58	1	Clamp, Hose				
16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)				
17	860-2010	4	Nut, Hex (M12 x 1.75)				
18	526-2140	8	Washer, Flat (M12)	30	319-4980-02	1	
19	332-2001	1	Lug, Solderless				
20	856-0010	1	Washer, Lock – W/EIT (3/8)				

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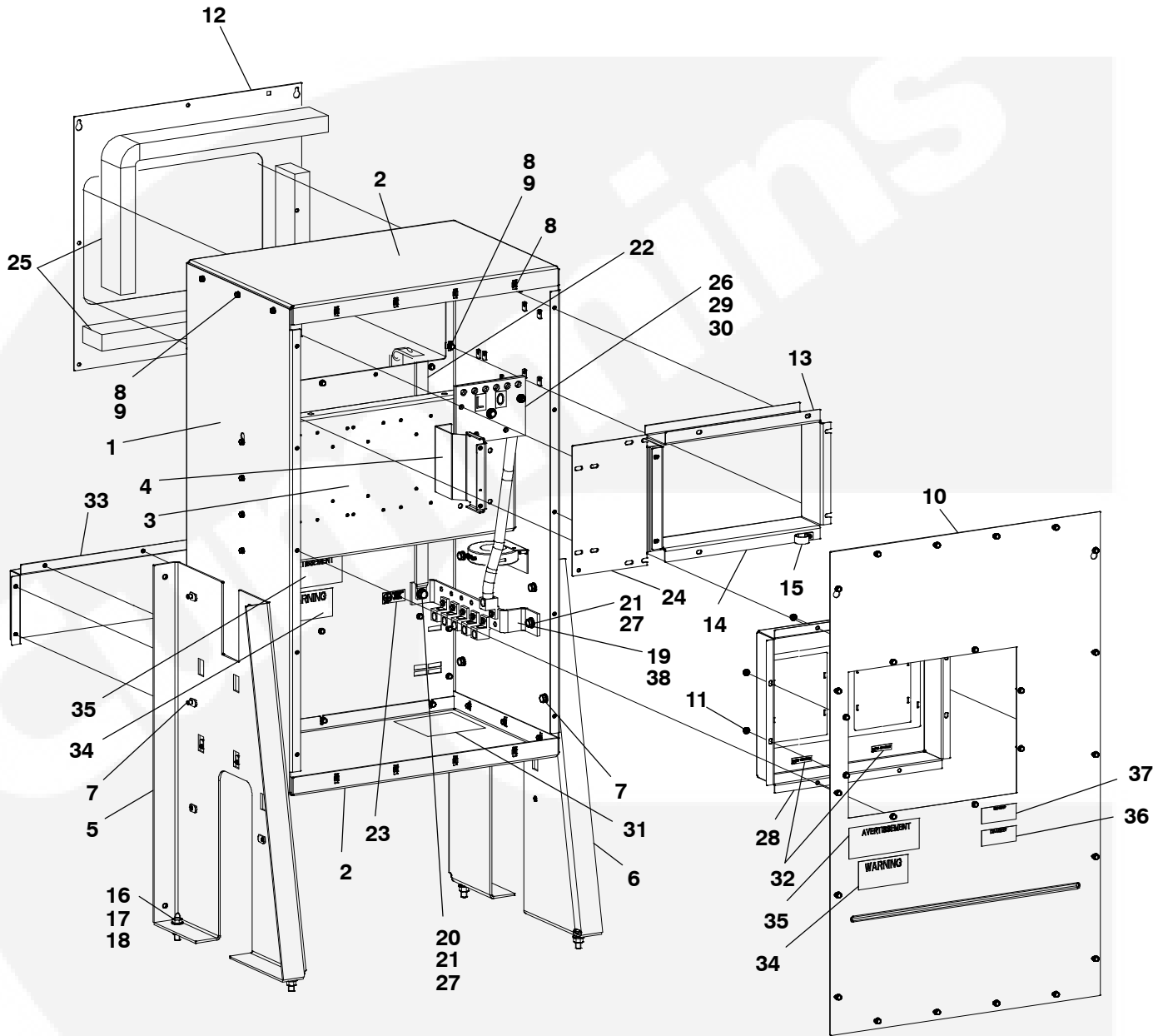


Circuit Breaker Bus Bar
DFBF, DFCB, DFCC Begin Spec Z
DFCE Begin Spec J



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-3660-01	1	Bar, Bus – Neutral	9	098-5854-09 A/R		Label, Bus Marking (3)
	337-3660-01	2	Single Circuit Breaker	10	098-8114	1	Label, Information – Conduit Location
			Dual Circuit Breaker (Mixed Size)	11	800-2116	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 50)
2	337-3629-01	1	Bar, Bus – Breaker	12	860-2010	A/R	Nut, Hex (M12)
3	337-3629-02	1	Bar, Bus – Breaker	13	850-2012	A/R	Washer, Lock – Split (M12)
4	337-3629-03	1	Bar, Bus – Breaker	14	526-2140	A/R	Washer, Flat (M12)
5	337-3629-04	1	Bar, Bus – Breaker	15	870-0131	A/R	Nut, Hex – W/ET
6	098-5854-06 A/R		Label, Bus Marking (L)	16	337-3629-05	1	Bar, Bus – Breaker
7	098-5854-07 A/R		Label, Bus Marking (1)	17	337-3629-06	1	Bar, Bus – Breaker
8	098-5854-08 A/R		Label, Bus Marking (2)				

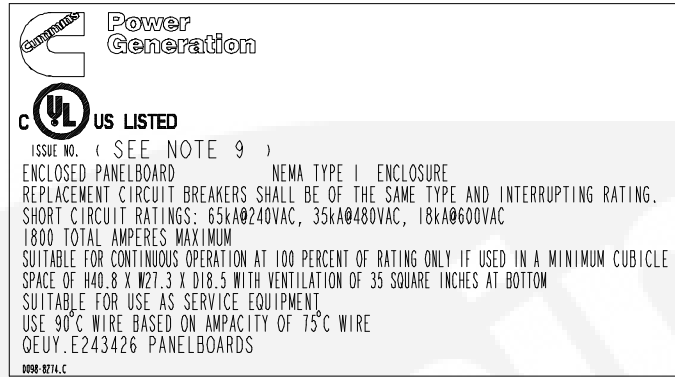
**Circuit Breaker Box
(With F200 – F205 Enclosure)
DFBF, DFCB, DFCC Begin Spec Z
DFCE Begin Spec J**



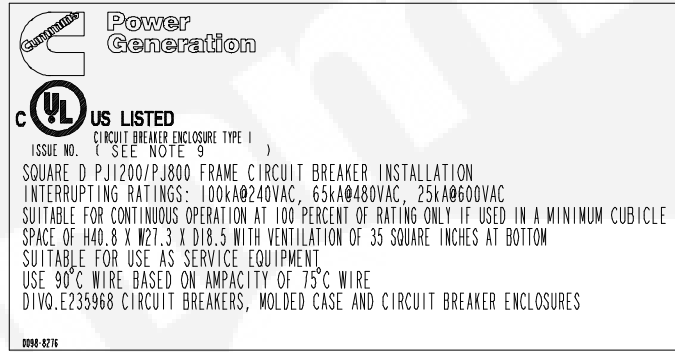
Circuit Breaker Box
(With F200 – F205 Enclosure)
DFBF, DFCB, DFCC Begin Spec Z
DFCE Begin Spec J

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5106-02	1	Box, Circuit Breaker	17	860-2010	4	Nut, Hex (M12 x 1.75)
2	319-4983-02	2	Cover, Box	18	526-2140	8	Washer, Flat (M12)
3	319-5492-02	1	Bracket, Circuit Breaker – Mounting	19	337-3667	1	Bus, Bar – Neutral (.25 x 2.00) – Without Breakers
4	319-5434-02	1	Bracket, Circuit Breaker	20	856-0010	1	Washer, Lock – W/EIT (3/8)
5	319-5092-02	1	Bracket, Circuit Breaker	21	800-3017-39	2	Screw, Cap – Hex Head (M10 x 1.5 x 35)
6	319-5093-02	1	Bracket, Circuit Breaker	22	337-3538-03	1	Strap, Ground
7	821-6004-01	8	Screw, Hex Head (M10 x 1.5 x 20)	23	098-6535	1	Label, Ground
8	870-0504	16	Nut, Captive – Floating	24	319-5140-02	1	Cover, Circuit Breaker – 4CDE Generator
9	821-6002-03 A/R		Screw, Hex Head (M6 x 1 x 16)	25	405-7861-01	2	Insulation, Duct
10			Cover, Circuit Breaker With Circuit Breaker	26	337-3796	2	Bus, Bar – Neutral
	319-5112-02	1	Without Circuit Breaker	27	851-0048-02	2	Washer, Belleville (M10)
11	319-5198-02	1		28	319-5494-02	1	Cup, Switch
11	870-2054	6	Nut, Locking – Flange (M6 x 1)	29	226-4927-01	1	Lead
12			Cover, Circuit Breaker 4CDE Generator	30	800-0030	1	Screw, Cap – Hex Head (5/16-18 x 1.25)
	319-5107-02	1		31	098-8114	1	Label, Information – Conduit Location
	319-5110-02	1	4F, 5CD Generator	32	098-8144	2	Label, Information – Service Disconnect
13			Cover, Circuit Breaker 4CDE Generator	33	319-5490-02	1	Duct, Inlet
	319-5113-02	1		34	098-2304	2	Label, Warning
	319-5121-02	1	4F Generator	35	098-2304-01	2	Label, Warning – French
	319-5119-02	1	5CD Generator	36	098-5347	1	Label, Danger
14			Cover, Circuit Breaker 4CDE Generator	37	098-5347-02	1	Label, Danger – French
	319-5114-02	1		38	337-3797	1	Bus, Bar – With Breakers
	319-5122-02	1	4F Generator				
	319-5120-02	1	5CD Generator				
15	518-0548-58	1	Clamp, Hose				
16	800-2114	4	Screw, Cap – Hex Head (M12 x 1.75 x 40)				

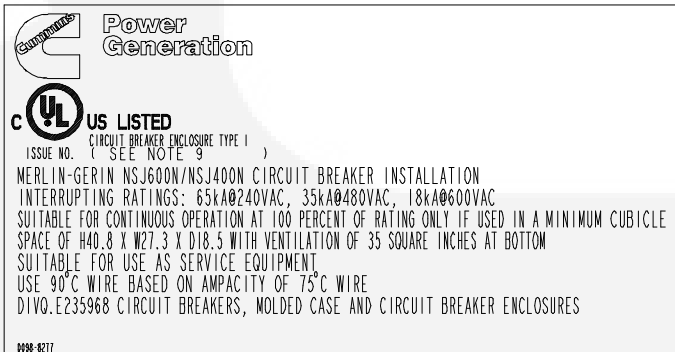
Circuit Breaker Labels



1



2



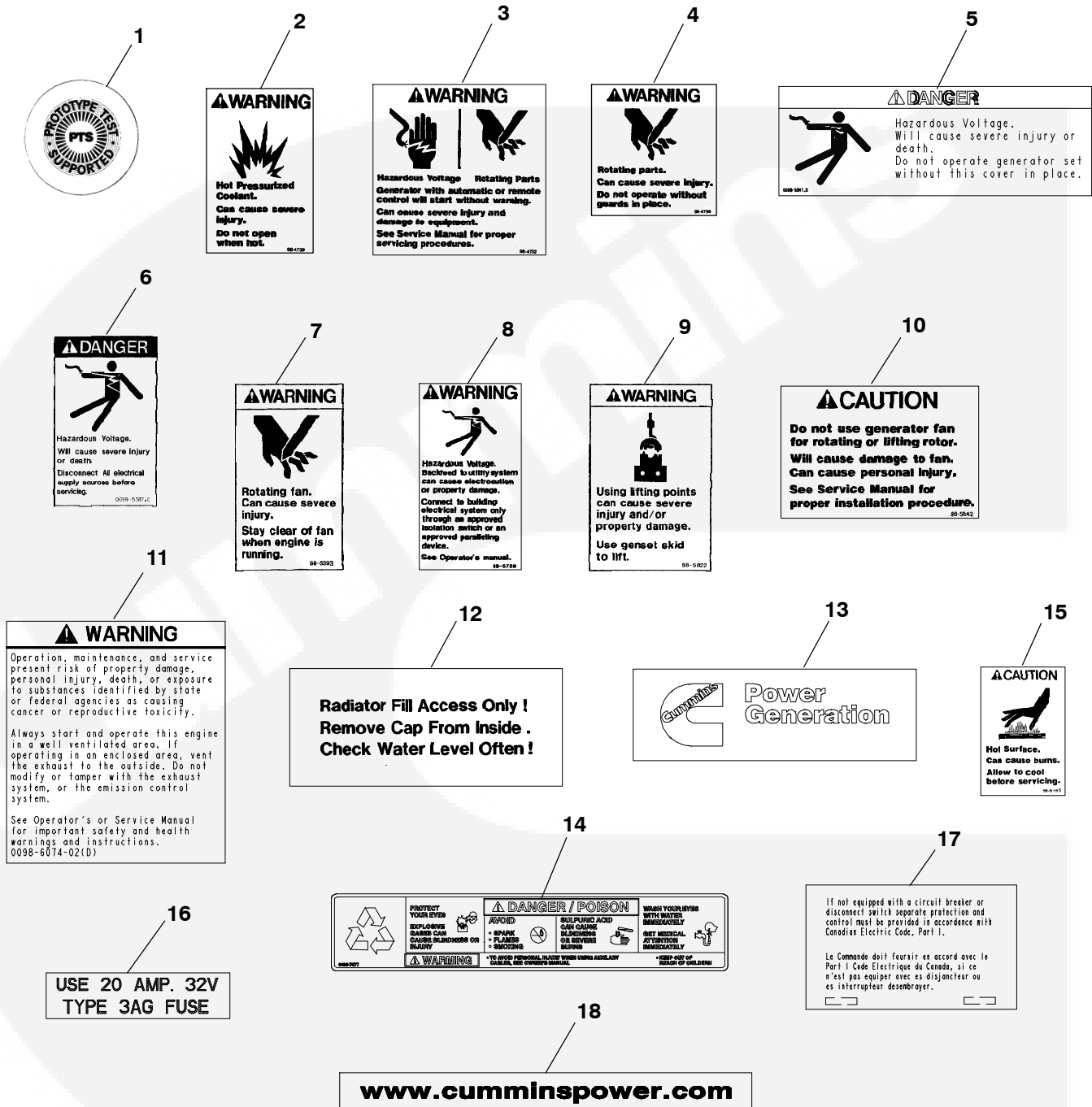
3

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8274	1	Label, Information	3	098-8277	1	Label, Information
2	098-8276	1	Label, Information				

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Miscellaneous Labels



Miscellaneous Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4500	2	Label, Prototype Tested	10	098-5842	1	Label, Caution
2	098-4730	4	Label, Warning	11	098-6074-02	1	Label, Warning
3	098-4732	2	Label, Warning	12	098-5429	1	Label, Coolant Fill
4	098-4798	5	Label, Warning	13	098-7902-03	3	Label, Logo - White
5	098-5347	4	Label, Danger	14	098-7877	1	Label, Battery Warning
6	098-5387	1	Label, Danger	15	098-6195	1	Label, Caution
7	098-5393	2	Label, Warning	16	098-7878	1	Label, Fuse (20A)
8	098-5759	2	Label, Warning	17	098-8445	1	Label, Information
9	098-5822	4	Label, Warning	18	098-8220	2	Label, Information - White

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