



Parts Manual

Our energy working for you.™



**Power
Generation**

Generator Set with PowerCommand® 3201 Controller

DQGAA (Spec A)

DQGAB (Spec A)

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

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

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DQGAA	QSK50-G4
DQGAB	QSK50-G4

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
1250DQGAA/*	1,250,000	#	60	6	1 or 3	24 VDC
1500DQGAB/*	1,500,000	#	60	6	1 or 3	24 VDC

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

– Broad range reconnectible

B

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Box, Control – Engine Coolant Heater, **13**
Box, Control – Mounting, **27**
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Box, Terminal – Generator Heater, **23**
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Bracket – Resistive Temperature Detector, **51**
Bracket, Battery, **16**
Bracket, Current Transformer, **53**
Bracket, Mounting – Air Cleaner – Standard, **8**
Breaker, Circuit – NSJ 600 Amp, **45**
Breaker, Circuit – P-Frame 800–1200 Amp, **47**
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Harness, Wiring – Low Coolant, **15**
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13

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T

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Trip, Shunt – Circuit Breaker, **49**

Tube, Air Inlet – Air Cleaner – Standard, **8**

V

Valve, Shutoff – Oil Drain, **7**



Abbreviations

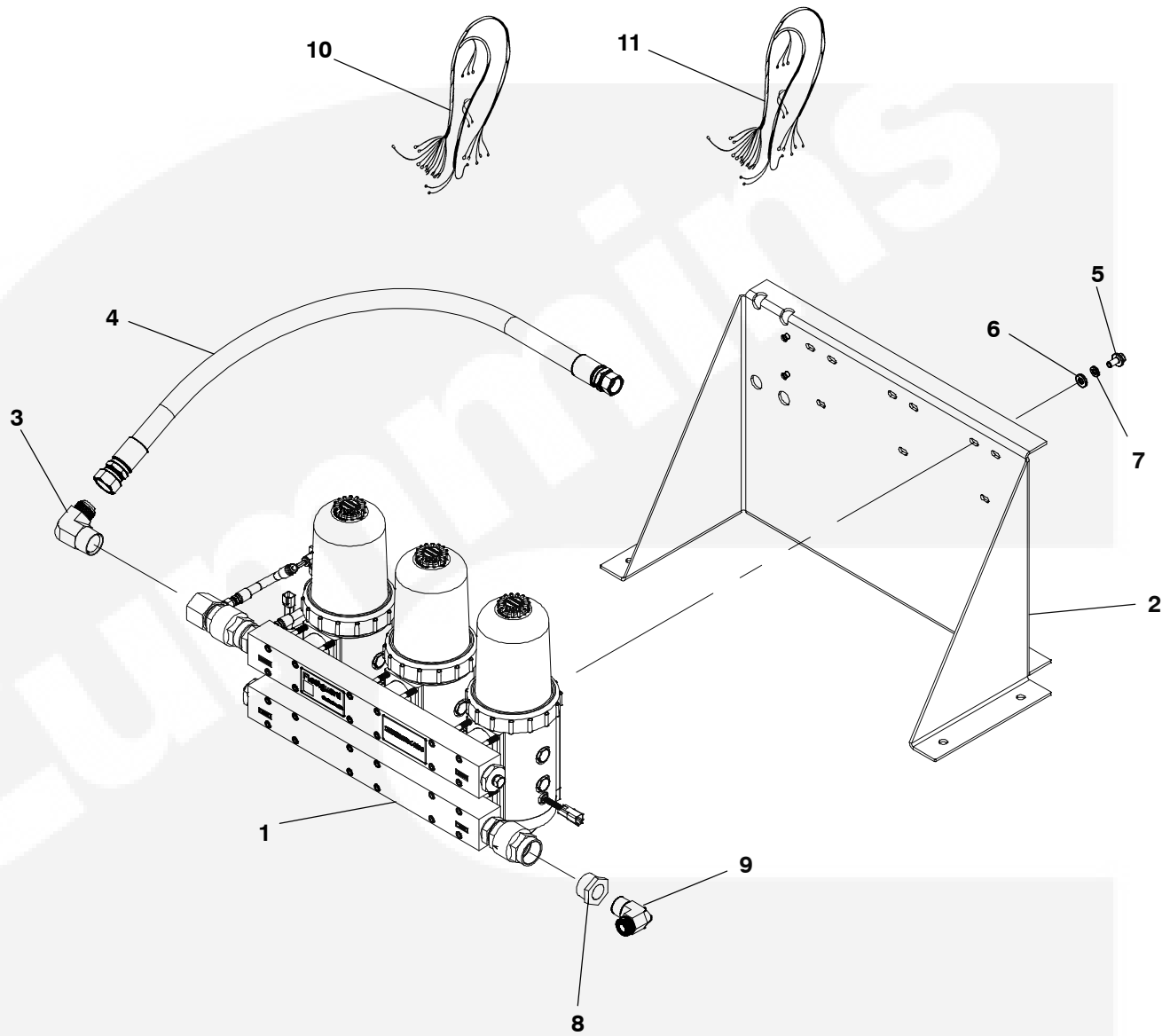
Some of the following abbreviations may be used throughout this Parts Catalog:

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

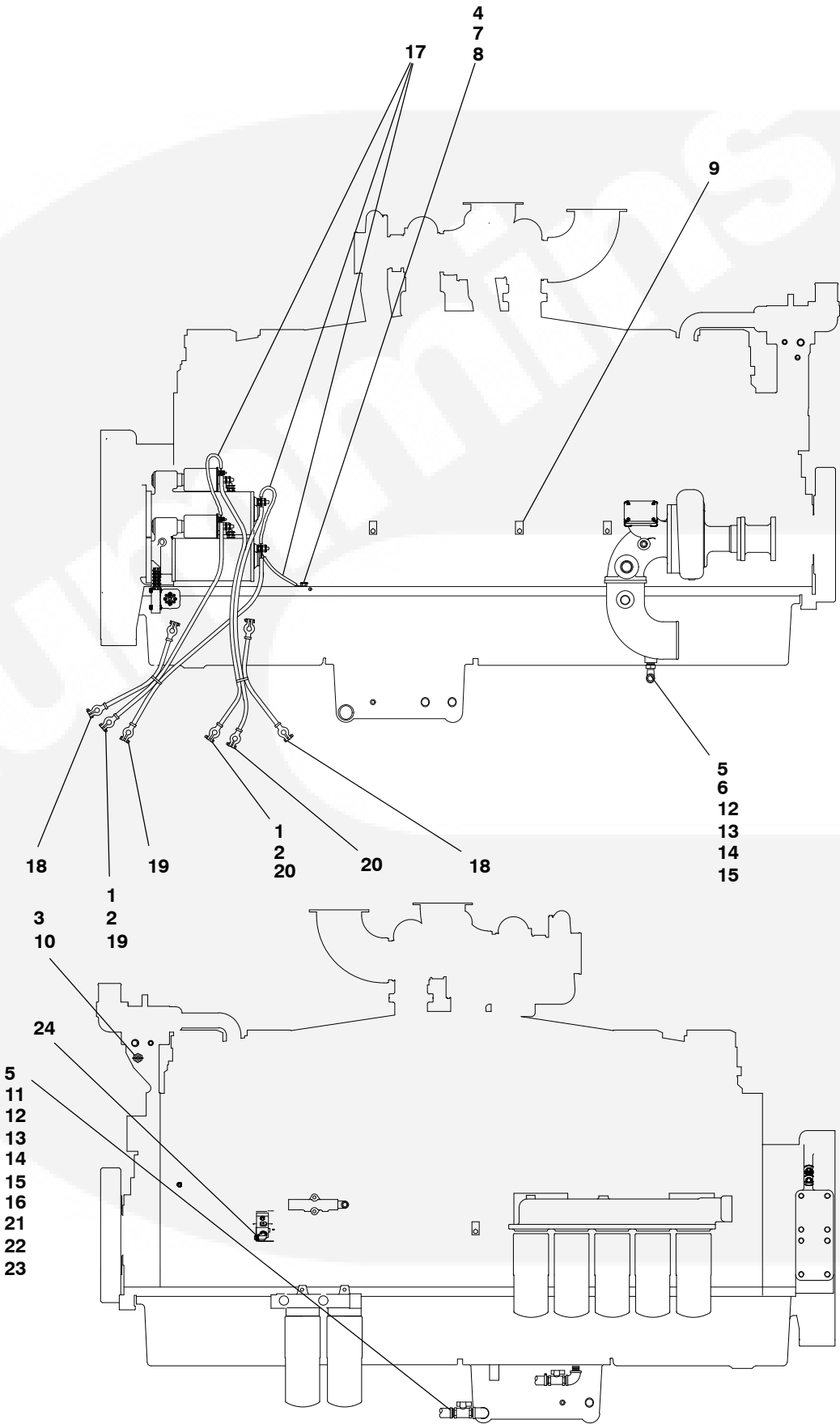
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				Cummins Beige Enamel
525-0305	-		12 oz. Pressurized Spray Can	525-0551-02	-		12 oz. Pressurized Spray Can
525-0306	-		Quart Can	525-0551-03	-		Quart Can
525-0304	-		Gallon Can	525-0551-04	-		Gallon Can
				518-0601	-		Sealant, Thread (6 ml Tube)

Fuel Filter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2792	1	Filter, Fuel	7	850-0050	11	Washer, Split - Lock (3/8)
2	149-2800-02	1	Bracket, Fuel Filter	8	505-0023	1	Bushing, Reducer (1-1/4 x 1)
3	502-1588	1	Elbow, Tube	9	502-1592	1	Elbow, Tube
4	501-0970-01	1	Line, Fuel	10	338-4914	1	Harness, Accessory - Fuel Filter
5	800-0050	11	Screw, Cap - Hex Head (3/8-16 x 1)	11	338-4915	2	Harness, Extension - Fuel Filter
6	526-0030	11	Washer, Flat (3/8)				

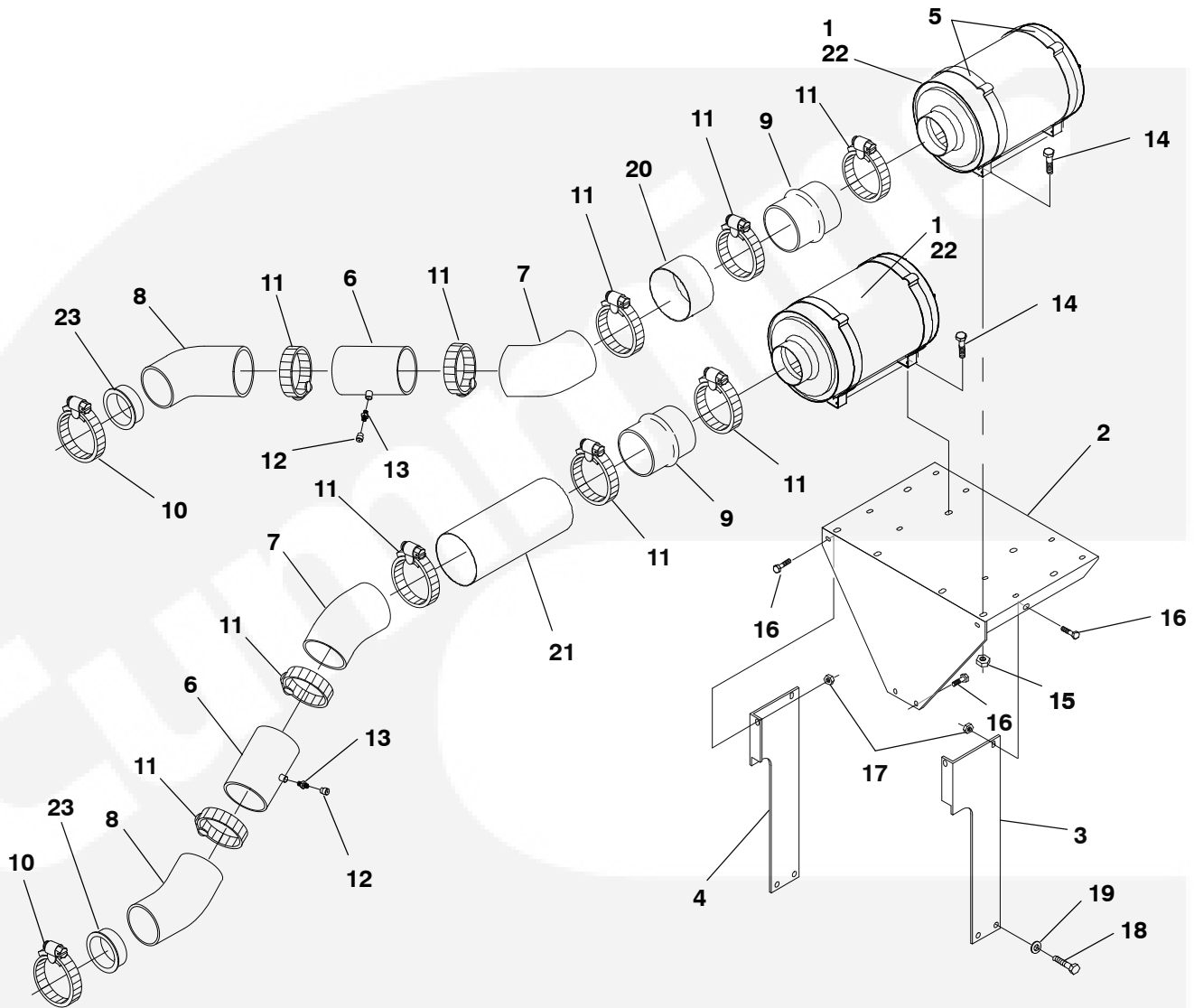
External Engine Parts



External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1019	2	Boot, Battery – Red	14	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")
2	416-1084-01	2	Boot, Starter – Red	15	505-0132	2	Elbow, Pipe – 90° (3/4")
3	505-0019	4	Bushing, Reducer (1/2 x 3/8)	16	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2")
4	856-0013	1	Washer, Lock – EIT (1/2")	17	416-0680	3	Cable, Battery – Starters and Engine Ground
5	503-0189	2	Clamp, Hose	18	416-1096	2	Cable, Battery – Jumper
6	503-2754-01	1	Hose, Oil	19	416-0639	2	Cable, Battery – Battery To Starter – 60"
7	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.00)	20	416-1092	2	Cable, Battery
8	850-0060	1	Washer, Lock – Spring (1/2")	21	503-2754-02	1	Hose, Oil
9	332-2634	6	Clamp, "J"	22	102-1335	1	Plug, Oil Drain
10	504-0028	1	Cock, Drain (3/8")	23	508-0292	1	Washer, Sealing
11	505-0100	1	Nipple, Pipe – Close (1/2" x 1-1/8")	24	502-1589	1	Elbow, Tube
12	504-0171	2	Valve, Shutoff	25	543-0088	1	Package, Fuel Filter
13	505-0324	2	Nipple, Pipe – Half (3/4" x 2")				

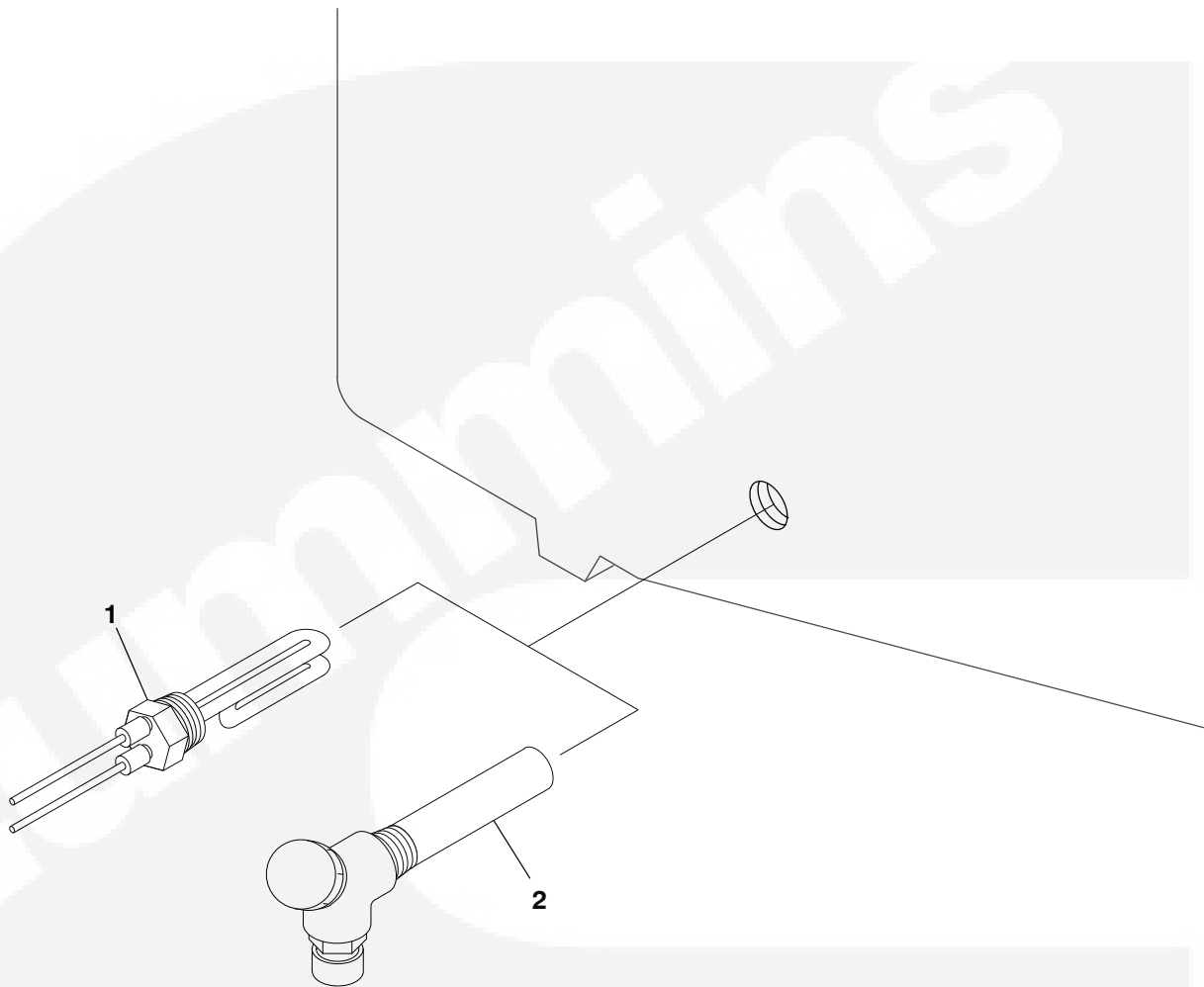
Air Cleaner Standard



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029G993	2	Cleaner, Air
2	140-2503	1	Bracket, Mounting – Air Cleaner
3	140-2504-01	1	Bracket, Mounting (Right Side)
4	140-2504-02	1	Bracket, Mounting (Left Side)
5	140-2502	4	Band, Mounting
6	140-2508	2	Tube, Air Inlet
7	503-1484	2	Elbow, Hose (45°)
8	503-1717	2	Elbow, Reducer (45°)
9	503-1705	2	Hose, Hump
10	503-1870-12	2	Clamp, Hose
11	503-1870-14	10	Clamp, Hose
12	140-1548	2	Indicator, Service
13	140-1260	2	Fitting – Safety Filter

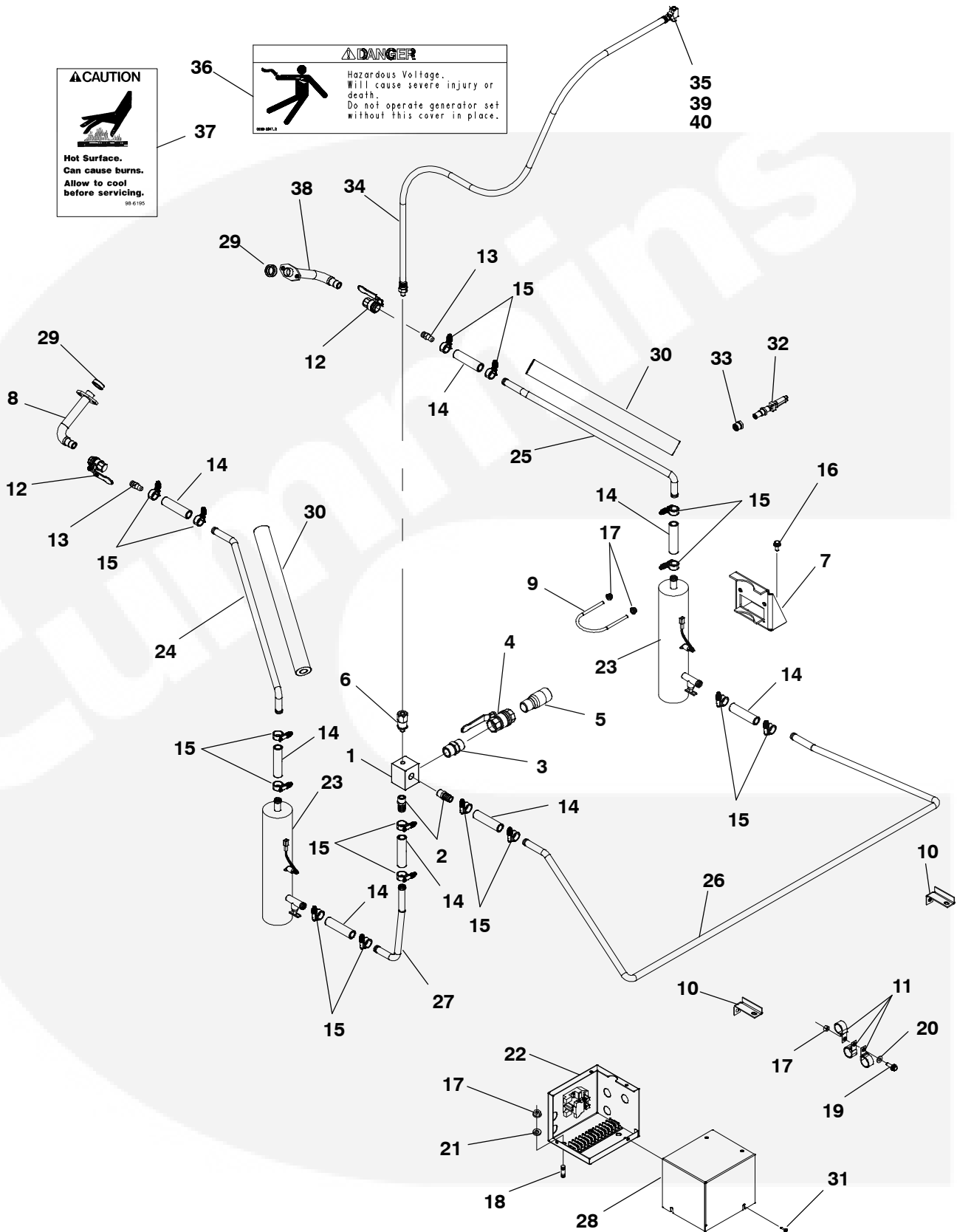
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	821-0029	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x .75)
15	870-0281	8	Nut, Hex – Locking (3/8-16)
16	821-0033	6	Screw, Self-Locking – Hex Washer Head (7/16-14 x .75)
17	870-0437	4	Nut, Hex – Locking (7/16)
18	800-0152	4	Screw, Cap – Hex Head (3/4-10 x 1.25)
19	850-0079	4	Washer, Lock (3/4)
20	130-6952-02	1	Tube, Air
21	130-6952-04	1	Tube, Air
22	AF2559300	1	Element, Replacement (Nelson Part Number)
23	503-1720	2	Insert, Reducer

Oil Pan Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0407-02	1	Heater, Oil (300 Watt) 120 Volt	2	333-0407-05	1	Heater, Oil (300 Watt, 480 Volt)
	333-0407-04	1	240 Volt				

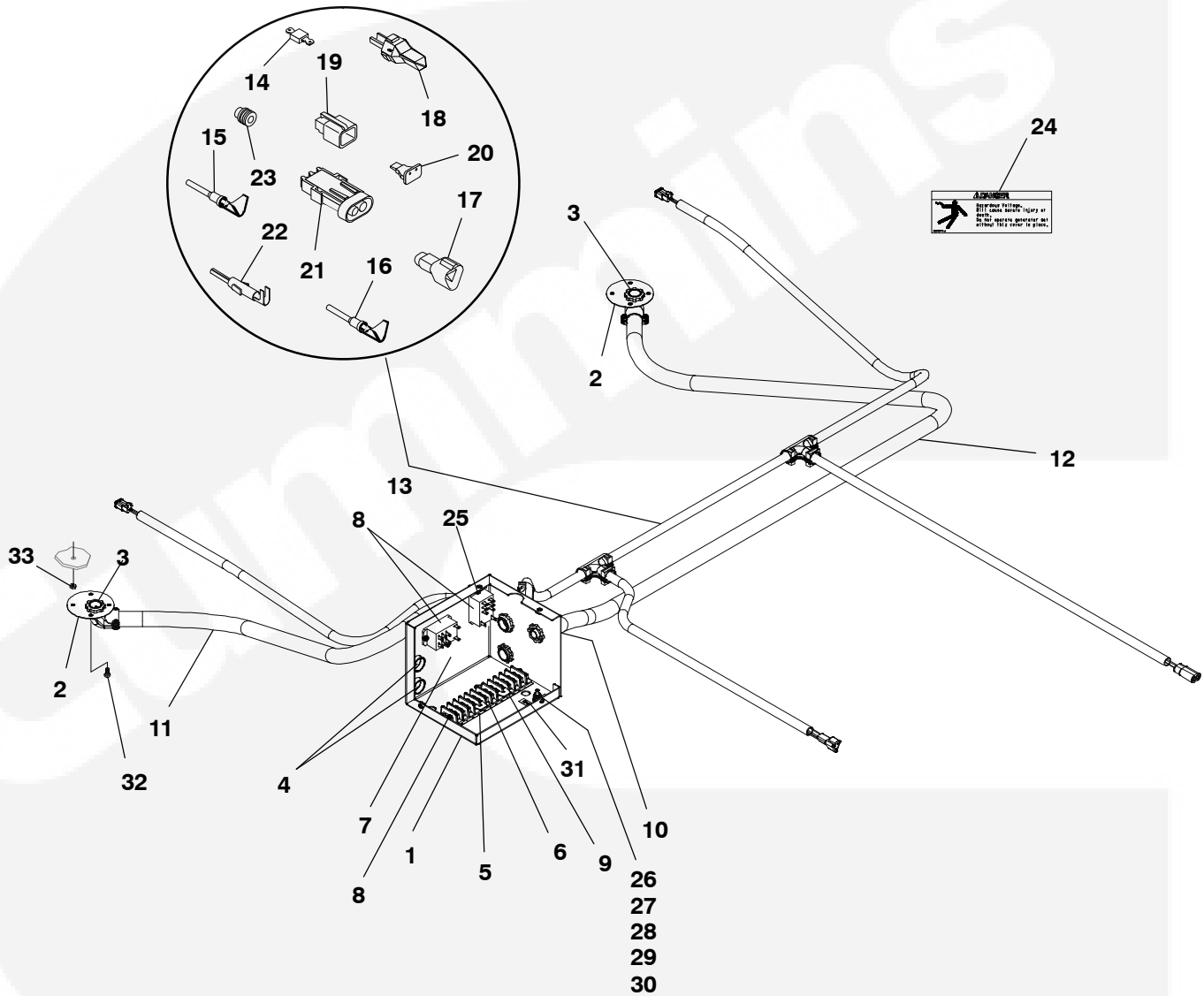
Engine Coolant Heater



Engine Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	133-0226	1	Manifold, Heater	22	—	1	Control Assembly, Coolant Heater (See Separate Page for Components)
2	502-0827	2	Hose, Barb	23			Heater, Coolant
3	505-1576-02	1	Nipple, Hex – Pipe (1")		333-0677-01	2	4990 Watt
4	504-0214	1	Valve, Ball (1")		333-0677-02	2	6420 Watt
5	505-2031	1	Nipple, Pipe – Reducer (1-1/4" x 1")	24	130-5588-02	1	Tube, Water Heater
6	504-0215	1	Valve, Check (1/4")	25	130-5589-02	1	Tube, Water Heater
7	130-4546	2	Bracket, Mounting – Coolant Heater	26	130-5590-02	1	Tube, Water Heater
8	130-4519-03	1	Tube	27	130-5591-02	1	Tube, Water Heater
9	155-3021	2	Clamp, Mounting	28	319-6838	1	Cover, Control
10	130-4538	2	Bracket, Retainer	29	509-0283-01	2	Seal, Rectangular Ring
11	332-2634	6	Clamp, "J"	30	128-0108	–	Insulation, Hose – Bulk (Order By The Foot – 4 Feet Required)
12	504-0213	2	Valve, Ball	31	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")
13	502-0827	2	Fitting, Hose – Barbed (1/2" ID Pipe to 3/4" ID Hose)		309-0649	1	Thermostat (Opens At 110° F, Closes At 130° F) (S11)
14	503-3062-01	8	Hose, Rubber	33	502-1336	1	Bushing, Reducer (1/2 x 3/8)
15	503-2157-02	16	Clamp, Hose	34	501-0744-01	1	Hose, Coolant
16	821-5004-02	6	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	35	505-2037	1	Tee, Pipe (1/4")
17	870-0550-09	8	Nut, Hex – Flange (3/8-16)	36	098-5347	3	Label, Danger
18	520-0544	2	Stud, Mounting (3/8-16 x 1-3/16")	37	098-6195	2	Label, Caution
19	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	38	130-6823-02	1	Tube
20	526-0029	2	Washer, Flat (3/8")	39	505-0071	1	Nipple (1/4 x 2")
21	526-0128	2	Washer, Flat (3/8")	40	505-0027	1	Coupling, Pipe

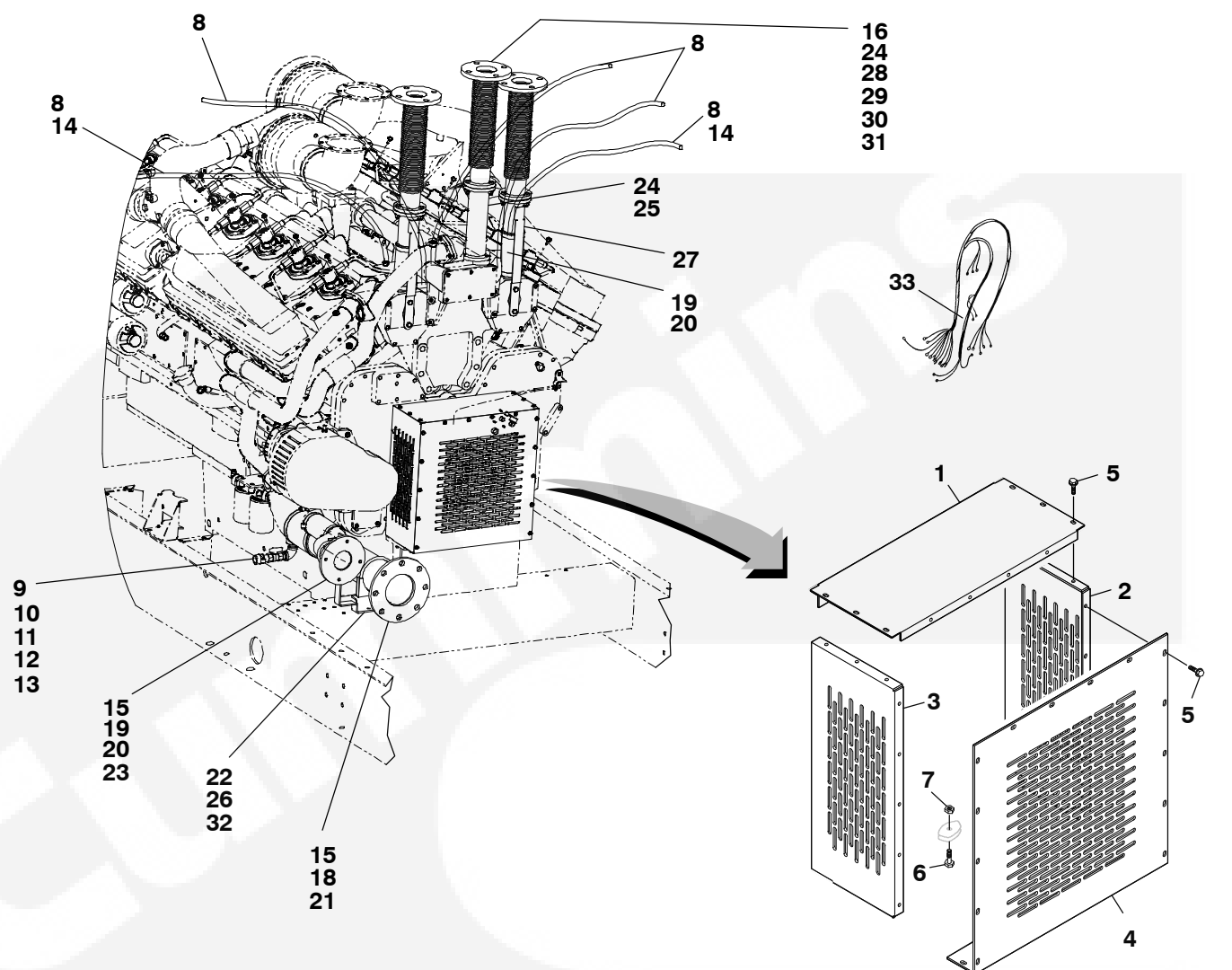
Engine Coolant Heater Control



Engine Coolant Heater Control

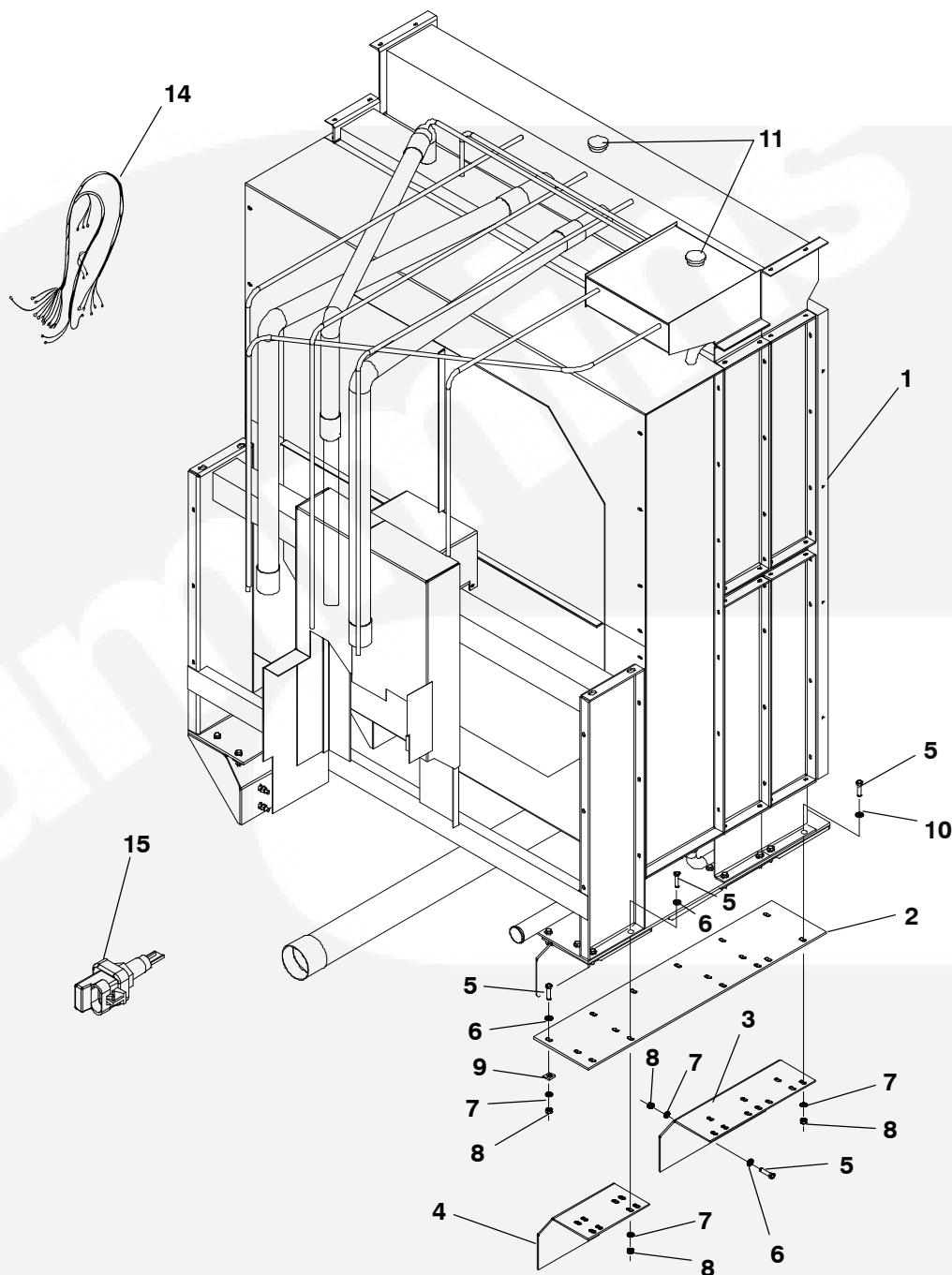
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4787-02	1	Box, Terminal	18	323-1502	1	* Wedge, Receptacle (3 Pin)
2	130-4552	2	Cover, Coolant Heater	19	323-1504	2	* Connector, Plug (2 Socket)
3	331-0555	5	Nut, Connector Lock (3/4-14)	20	323-1500	2	* Wedge, Plug (2 Socket)
4	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)	21	323-1652	1	* Plug (2 Pin)
5	332-1469	1	Strip, Marker	22	323-1718	A/R	* Pin, Contact
6	332-1468	1	Block, Terminal - 12 Place (TB1)	23	323-1445	2	* Seal, Cable
7	307-3089	2	Relay, Power	24	098-5347-01	1	Label, Danger
8	815-0447	2	Screw, Machine - Round Head - Cross Recessed - Thread Cutting - W/IT (#8-32 x .75)	25	815-0446	4	Screw, Machine - Round Head - Cross Recessed W/IT (#8-32 x .50")
9	332-3440	2	Jumper, Terminal	26	815-0203	1	Screw, Brass - Round Head - W/ET (#10-32 x 7/8)
10	331-0042	1	Connector, Wiring - DC - Romex (3/4")	27	856-0003	1	Washer, Lock - W/EIT (#10)
11	338-4995-01	1	Harness, Heater - Engine	28	871-0010	1	Nut, Hex - Brass (#10-32)
12	338-4995-02	1	Harness, Heater - Engine	29	526-0049	2	Washer, Flat - Brass (#10)
13	338-5093	1	Harness, Heater (Includes Parts Marked *)	30	870-0131	1	Nut, Hex - W/ET (#10-32)
14	357-0030	1	* Rectifier, Silicon (6 Amp)	31	098-2235-02	1	Label, Ground
15	323-1491	A/R	* Pin, Contact	32	815-0539	6	Screw, Cross Recessed - Pan Head - W/ET (#8-32 x .625)
16	323-1492	A/R	* Socket, Contact	33	870-0131	6	Nut - W/ET
17	323-1494	A/R	* Connector, Receptacle (3 Pin)	* - Parts Included in 338-5093 Wiring Harness			

Remote Radiator



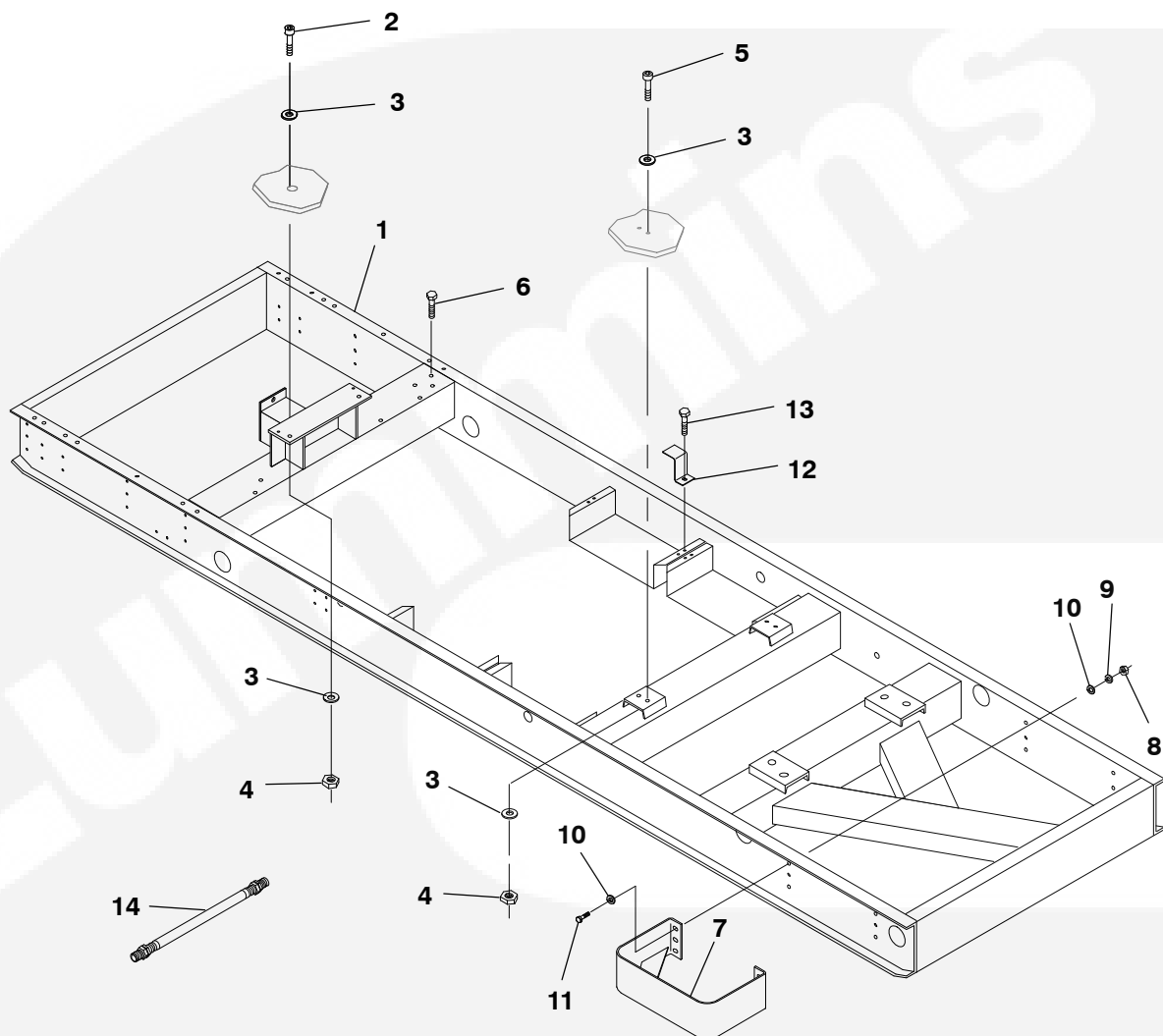
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3713	1	Guard, Damper – Top	19	503-1728	3	* Hose, Radiator (3.00 x 5.50)
2	130-3714-01	1	Guard, Damper – Right Side	20	503-1872-05	6	* Clamp, Hose
3	130-3714-02	1	Guard, Damper – Left Side	21	503-1872-09	2	* Clamp, Hose
4	130-3715	1	Cover, Damper Guard	22	155-3290	1	* Clamp, Muffler (5" DIA)
5	821-5002-03	22	Screw, Self-Locking – Hex Washer Head (1/4-20 x 1/2")	23	155-3289	1	* Clamp, Muffler (3" DIA)
6	821-5004-03	2	Screw, Self-Locking – Hex Washer Head (3/8-16 x 1")	24	130-3684	4	* Gasket, Connection
7	870-0281	2	Nut, Self-Locking – Hex Washer Head (3/8-16)	25	130-5084-02	1	* Tube, Water Outlet
8	501-0744-03	5	Hose – Assembly	26	130-7243-02	1	* Bracket, Tube
9	502-1326	1	Adapter, Pipe (M33 x 3/4)	27	130-7244-02	2	* Tube, Radiator – Water Outlet
10	505-0051	1	Elbow, Street – 90° (3/4)	28	800-3017-41	9	* Screw, Cap – Hex Head (M10 x 1.5 x 45)
11	505-0102	1	Nipple, Pipe (3/4 x 1.38)	29	526-0399-62	9	* Washer, Flat (M10)
12	504-0171	1	Valve	30	850-0114-55	9	* Washer, Lock – Split (M10)
13	505-0324	1	Nipple, Half (3/4)	31	862-0026-56	9	* Nut, Hex (M10 x 1.5)
14	502-0143	2	Adapter, Reducing	32	821-6002-03	2	* Screw, Hex Head (M8 x 1.25 x 25)
15	130-4517	1	* Tube, Water Inlet	33	338-4858	1	Harness, Wiring – Low Coolant
16	130-3687	3	* Tube, Water Outlet				
17	130-7097-02	1	* Tube, Water Inlet	*	Used With Flanges		
18	503-1726	1	* Hose, Radiator (5.00 x 6.00)				

Radiator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6953	1	Radiator	8	862-0016	56	Nut, Hex (1/2-13)
2	130-5905-02	2	Plate, Support	9	403-2733-01	12	Washer, Bevel (1/2)
3	130-5901-02	2	Bracket, Radiator - Support	10	526-0100	12	Washer, Flat (1/2)
4	130-5903-02	2	Bracket, Radiator - Support	11	130-5325	2	Cap, Radiator
5	800-0094	56	Screw, Cap - Hex Head (1/2-13 x 2.00)	12	511-0238	1	Belt (Not Shown)
6	526-0219	60	Washer, Flat (1/2)	13	130-7468	1	Fan (Not Shown)
7	850-0060	56	Washer, Lock (1/2)	14	338-4858	1	Harness, Wiring - Low Coolant
				15	193-0602	1	Sensor, Low Coolant

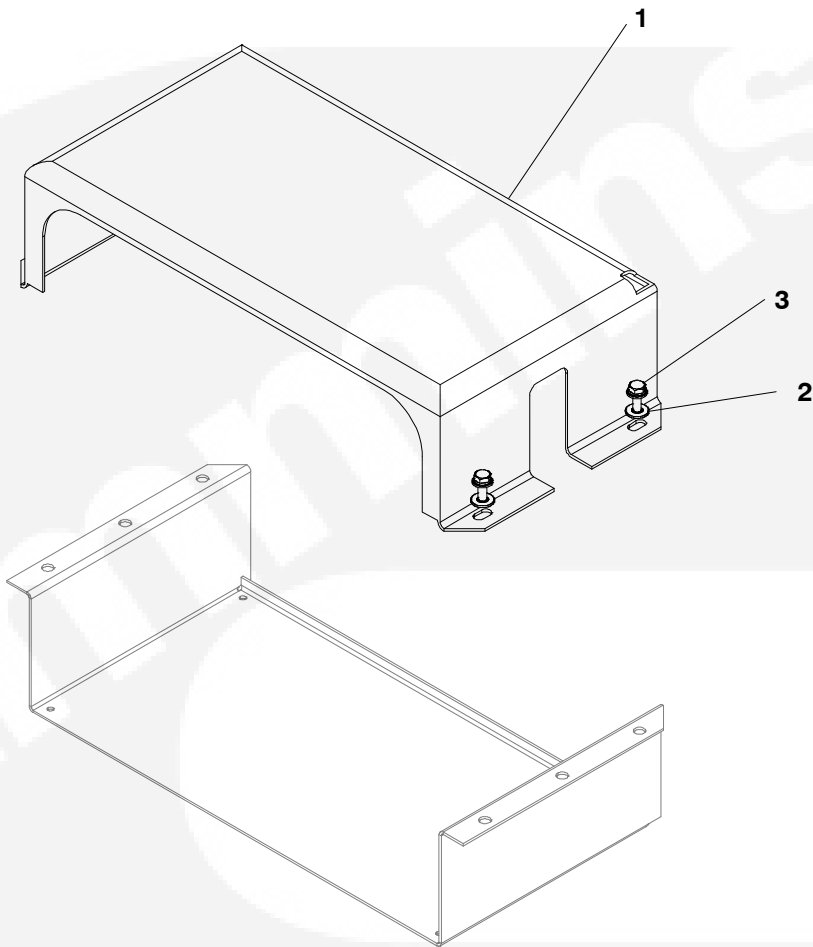
Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5046-02	1	Skid
2	800-0163	2	Screw, Cap – Hex Head (3/4-10 x 4)
3	526-0027	12	Washer, Flat (3/4
4	862-0008	6	Nut, Hex (3/4-10)
5	800-0158	12	Screw, Cap – Hex Head (3/4-10 x 2-3/4)
6	821-5004-03	7	Screw, Cap – Hex Head (3/8-16 x 1.00)
7	130-4389	2	Bumper
8	862-0016	12	Nut, Hex (1/2-13)

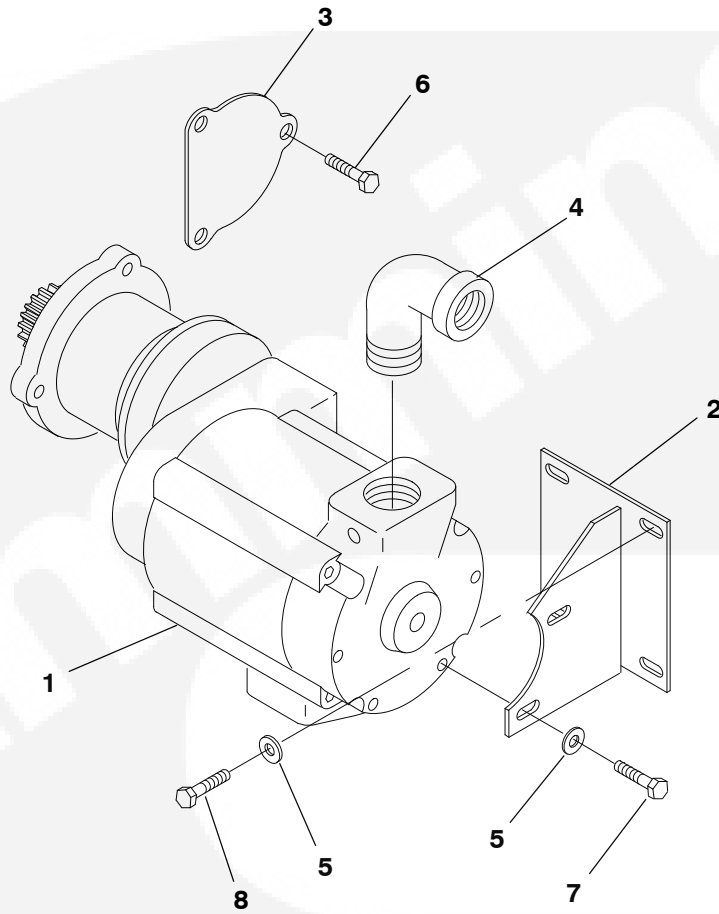
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	850-0060	12	Washer, Lock (1/2)
10	526-0219	24	Washer, Flat (1/2)
11	800-0093	12	Screw, Cap – Hex Head (1/2-13 x 1-3/4)
12	416-0850	8	Bracket, Battery
13	800-0048	8	Screw, Cap – Hex Head (3/8-16 x 3/4)
14			Line, Fuel – Flexible
	501-0919	1	In
	501-0918	1	Out

Battery Cover



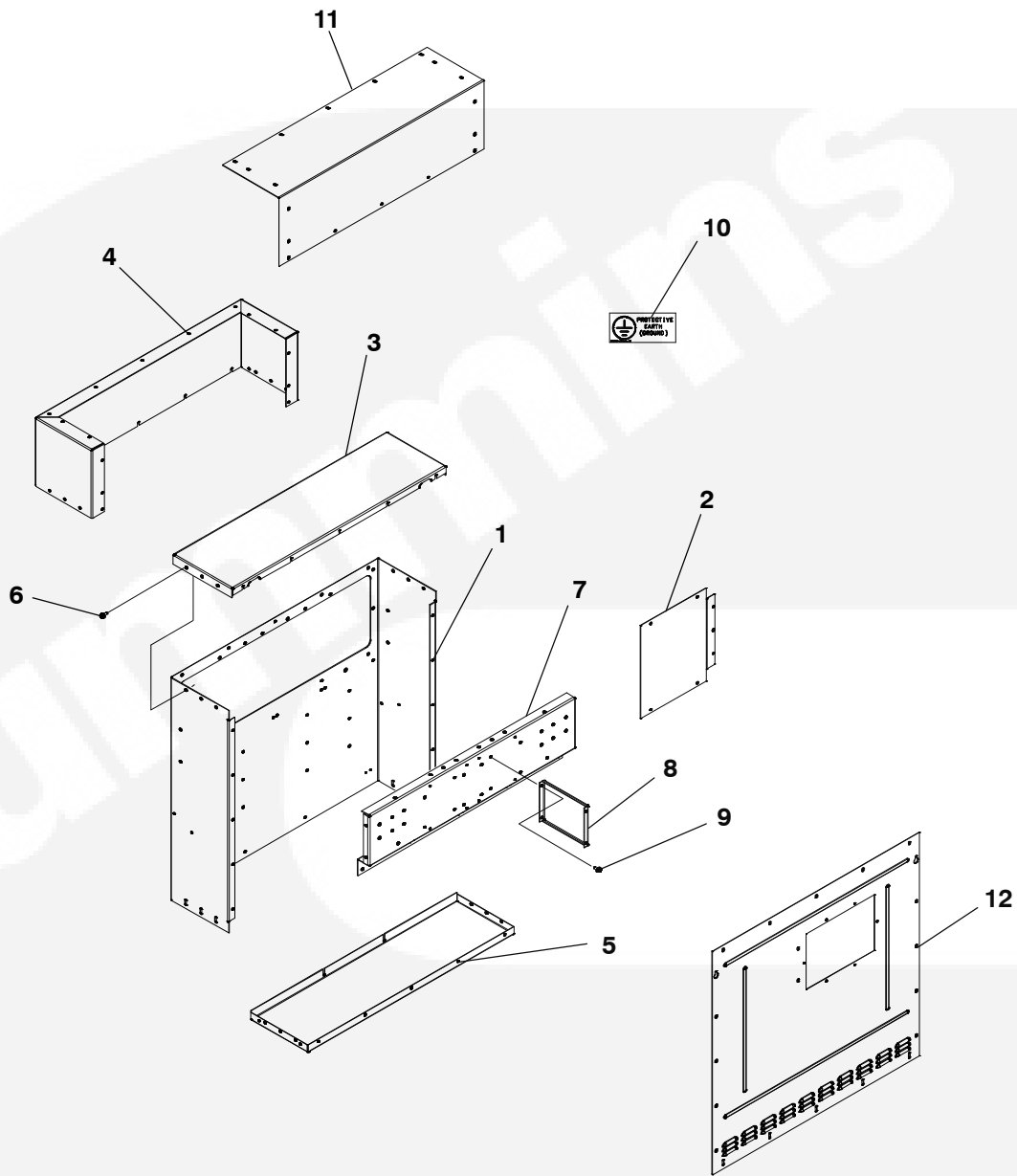
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1068	2	Cover, Battery Tray	3	821-5004-02	8	Screw, Hex Head (3/8-16 x .75)
2	526-0399-42	8	Washer, Flat				

Air Starter



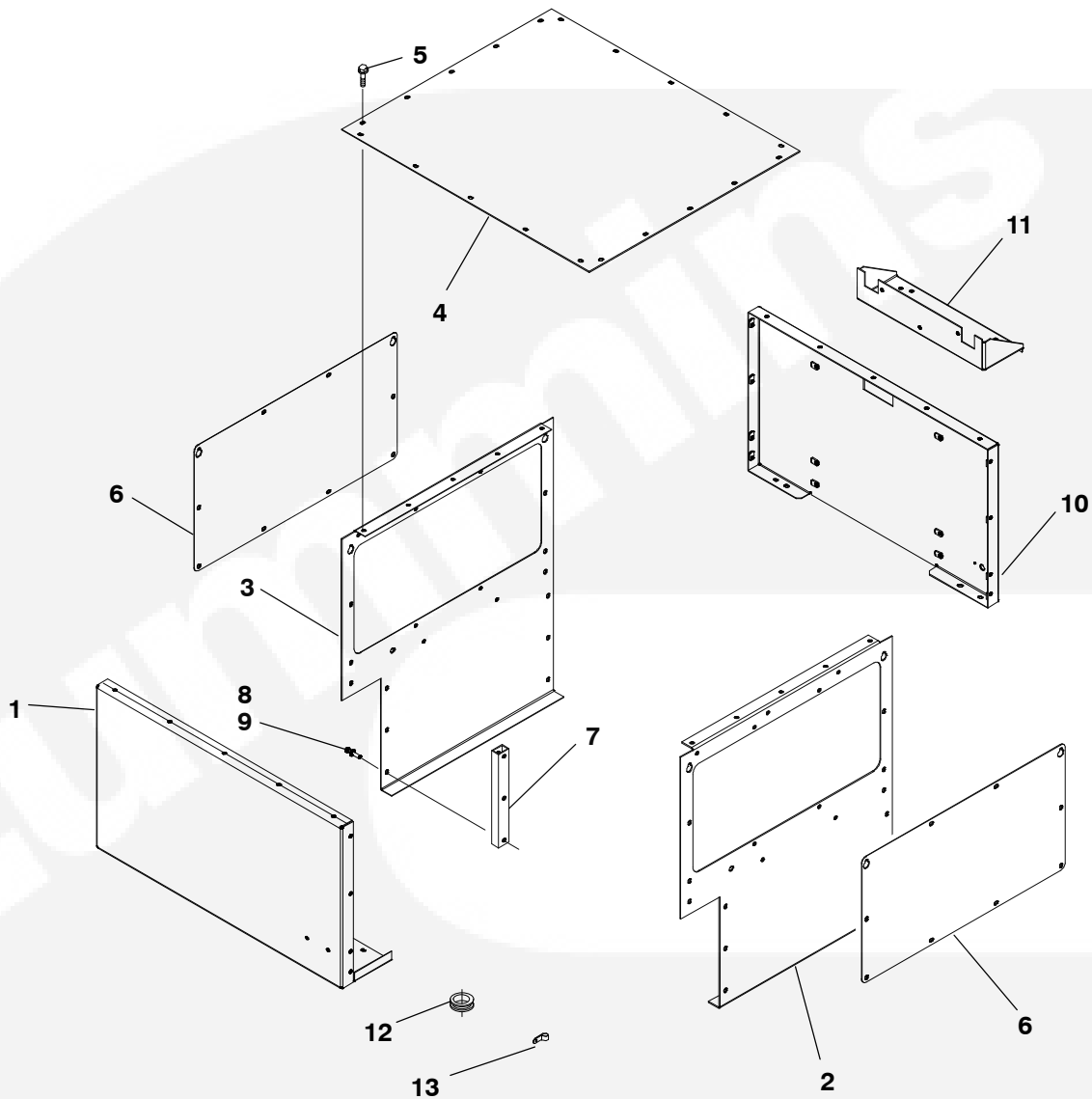
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	127-0390-01	1	Starter, Air	7	800-2526	2	Screw, Cap – Hex Head (M10 x 20)
2	127-0395	1	Brace, Starter Motor	8	815-0724	4	Screw, Cap – Hex Head (3/8-16 x 1.25)
3	127-0422	1	Cover, Flange – Starter				
4	502-1054-08	1	Elbow, Street Pipe – 90°				
5	526-0030	6	Washer, Flat (13/32)				
6	800-0130	3	Screw, Cap – Hex Head (5/8-11 x 1.00)				

Entrance Box



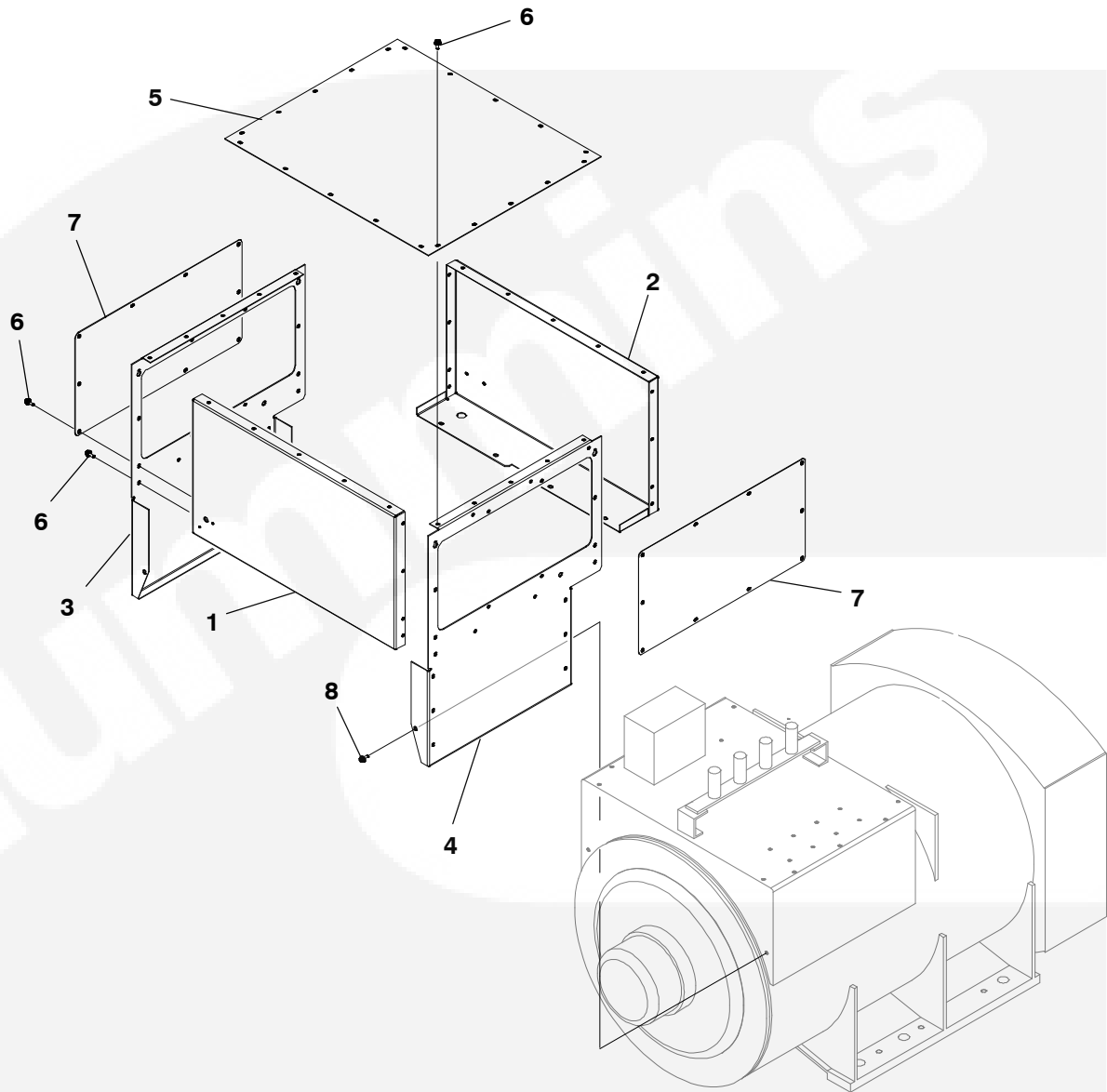
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5161-02	1	Box, Circuit Breaker	7	319-5179-02	1	Bracket, Circuit Breaker
2	319-5084-02	1	Panel, Terminal	8	319-5102-04	1	Stiffener, Cover
3	319-5171-02	1	Cover, Circuit Breaker – Bottom Entrance	9	821-6002-03	8	Screw, Hex (M6 x 1 x 16)
4	319-5216-02	1	Cover, Circuit Breaker – Top and Bottom Entrance	10	098-6635	1	Label, Ground
5	319-5088-02	1	Cover, Circuit Breaker	11	319-5163-02	1	Cover, Circuit Breaker – Adapter Plug – Top and Bottom Entrance
6	821-6003-02	69	Screw, Hex (M8 x 1.25 x 20)	12	319-5176-06	1	Cover, Circuit Breaker – Front

Terminal Box P7 Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5081-02	1	Panel, Terminal - Back	8	800-2061	12	Screw, Cap - Hex Head (M8 x 40)
2	319-5082-02	1	Panel, Terminal - Left Side	9	526-0399-60	12	Washer, Flat (M8)
3	319-5085-02	1	Panel, Terminal - Right Side	10	319-5184-02	1	Panel, Terminal - Front
4	319-5083-02	1	Panel, Terminal - Top	11	319-5181-02	2	Bracket, Control
5	821-6003-02	60	Screw, Hex Head (M8 x 1.25 x 20)	12	508-1090	1	Grommet
6	319-5097-02	2	Panel, Terminal	13	518-0548-24	2	Clamp, Hose
7	319-5488-02	4	Box, Terminal - Spacer				

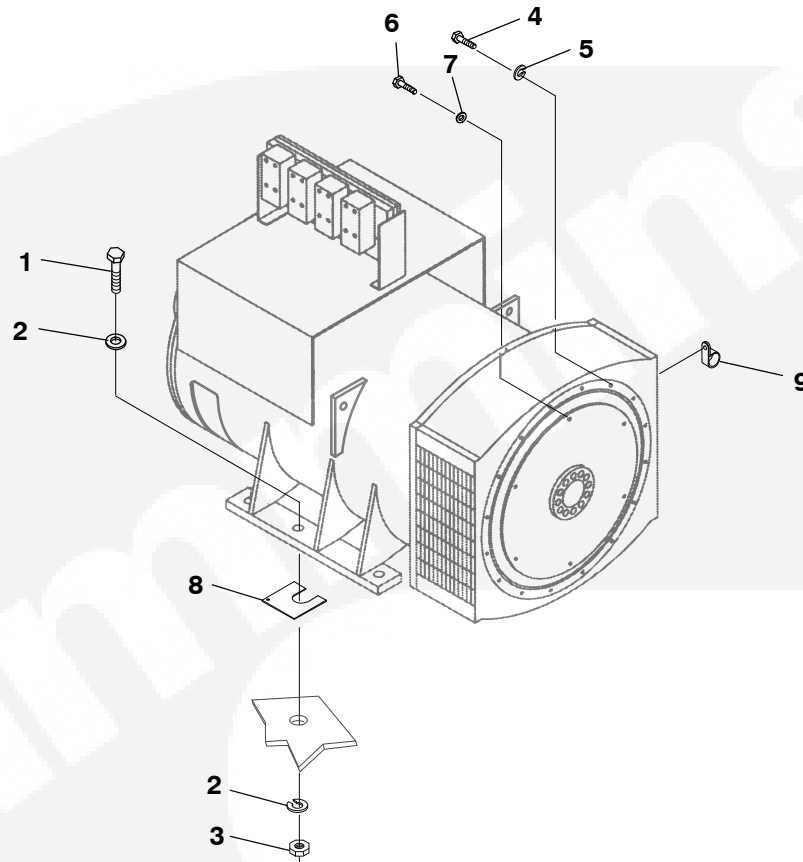
Terminal Box MV Alternator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5427-02	1	Panel, Terminal
2	319-5428-02	1	Panel, Terminal
3	319-5429-02	1	Panel, Terminal
4	319-5430-02	1	Panel, Terminal
5	319-5083-02	1	Panel, Terminal

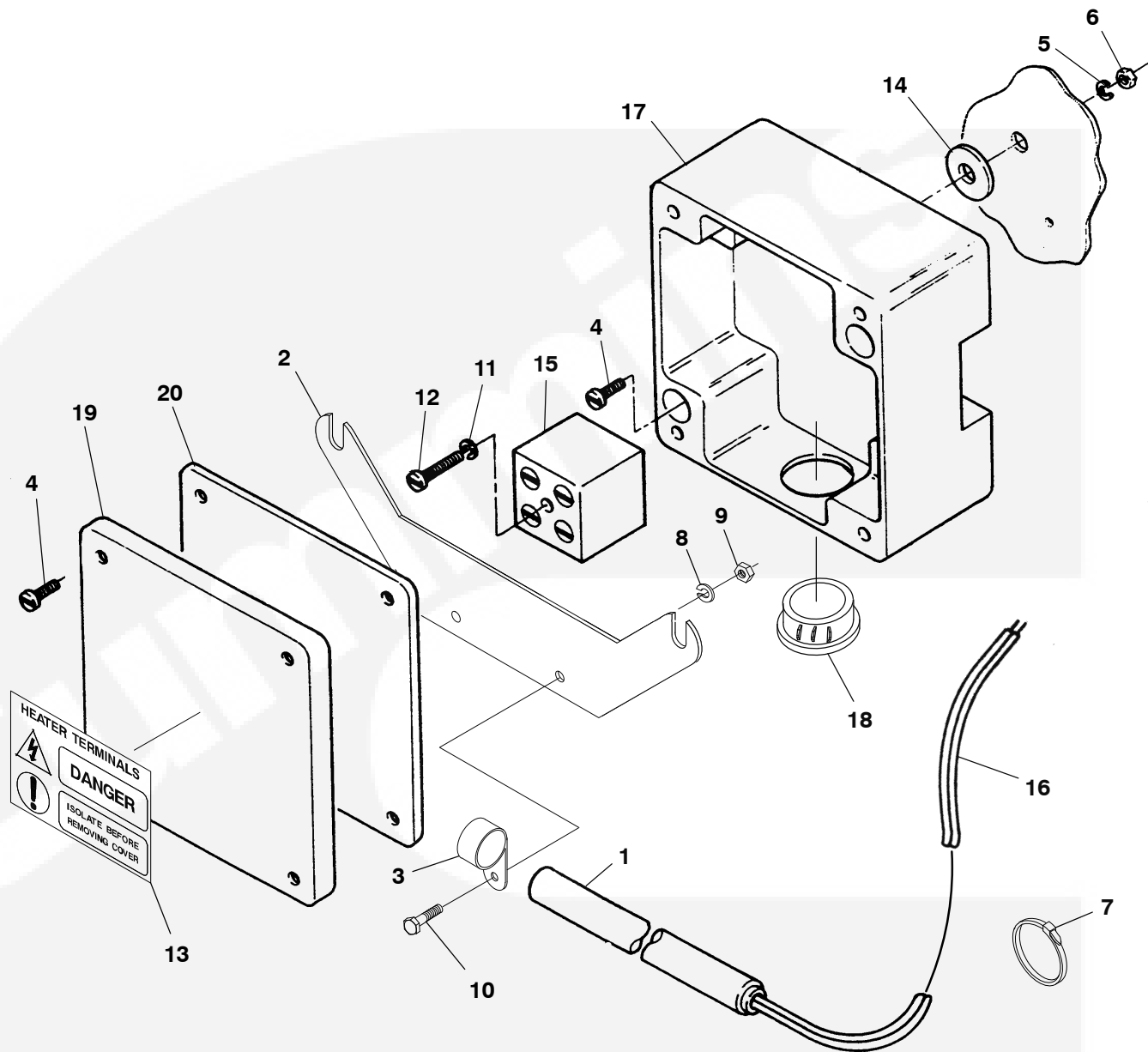
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	821-6003-02	44	Screw, Hex Head (M8 x 1.25 x 20)
7	319-5097-02	2	Panel, Terminal
8	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)

Generator Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0303	2	Screw, Cap - Hex Heads (1-1/4-7 x 3-1/2")	7	526-0416	6	Washer, Flat (5/8")
2	526-0445	4	Washer, Flat (1-3/8" ID x 3" OD x .136" Thk)	8			Shim (Quantity Used As Required)
3	862-0017	2	Nut, Hex (1-1/4-7)		232-3710-01	4	20 GA
4	800-0596	16	Screw, Cap - Hex Head - Grade 8 (1/2-13 x 2-1/4")		232-3710-02	4	14 GA
5	850-0060	16	Washer, Lock - Spring (1/2")		232-3710-03	4	10 GA
6	805-0035	6	Bolt, Place (5/8-11 x 1-1/2") Grade 8		232-3710-07	4	28 GA
				9	332-3196	1	Clamp, "J"

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater (300 Watt)	11	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-05	1	120 Volt	12	822-3047	1	Screw, Machine – Pan Head
	333-0438-06	1	240 Volt				(M3 x 20mm)
2	232-3849	1	Bracket, Mounting – Heater	13	098-7281	1	Label, Heater Warning
3	332-3024-14	2	Clamp, Loop	14	508-0228	1	Grommet
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	15	332-3023	1	Block, Terminal
5	856-0021	2	Washer – W/EIT (M4)	16	898-1254-25	1	Sleeving – Heater Leads (59")
6	860-2005	2	Nut, Hex (M4)	17	330-0142	1	Box, Terminal (Includes Cover and Gasket – Ref No. 19 and 20)
7	332-1389	4	Tie, Cable				
8	850-2005	2	Washer, Lock – Spring (M5)	18	517-0021	1	Plug, Dot Button
9	860-2006	2	Nut, Hex (M5)	19	330-0141-03	1	Cover, Box
10	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)	20	330-0141-04	1	Gasket, Cover

Generator

Generator component parts cannot be ordered from Cummins Power Generation. Refer to the Newage nameplate and supply all available information. Contact your nearest Newage distributor for assistance in ordering component parts. For a COMPLETE generator replacement, use the 200-XXXX-XX Cummins Power Generation identification number.

Cummins Power Generation Identification Number	Generator Model
200-3128-01	P734B
200-3128-02	P734C
200-3128-03	P734D
200-3128-04	P734E
200-3128-05	P734F
200-3128-06	P734G
200-3128-07	P734B
200-3128-08	P734C
200-3128-09	P734D
200-3128-10	P734E
200-3128-11	P734F
200-3128-12	P734G
200-3128-19	P734B
200-3128-20	P734C
200-3128-21	P734D
200-3128-22	P734E
200-3128-25	P734B
200-3128-26	P734C
200-3128-27	P734D
200-3128-28	P734E
200-3128-37	P7B
200-3128-38	P7C
200-3128-39	P7D

Continued...

Continued...

Cummins Power Generation Identification Number	Generator Model
200-3128-40	P7E
200-3128-41	P7F
200-3128-42	P7G
200-3128-43	P7B
200-3128-44	P7C
200-3128-45	P7D
200-3128-46	P7E
200-3128-47	P7F
200-3128-48	P7G
200-3128-55	P7B
200-3128-56	P7C
200-3128-57	P7D
200-3128-58	P7E
200-3128-61	P7B
200-3128-62	P7C
200-3128-63	P7D
200-3128-64	P7E

NOTE: From Field Flash Titled “Hardened Cartridge for Alternator Bearing UPDATE” Kit to replace a Standard or Hardened Cartridge. The new kit includes a new bearing and cartridge.

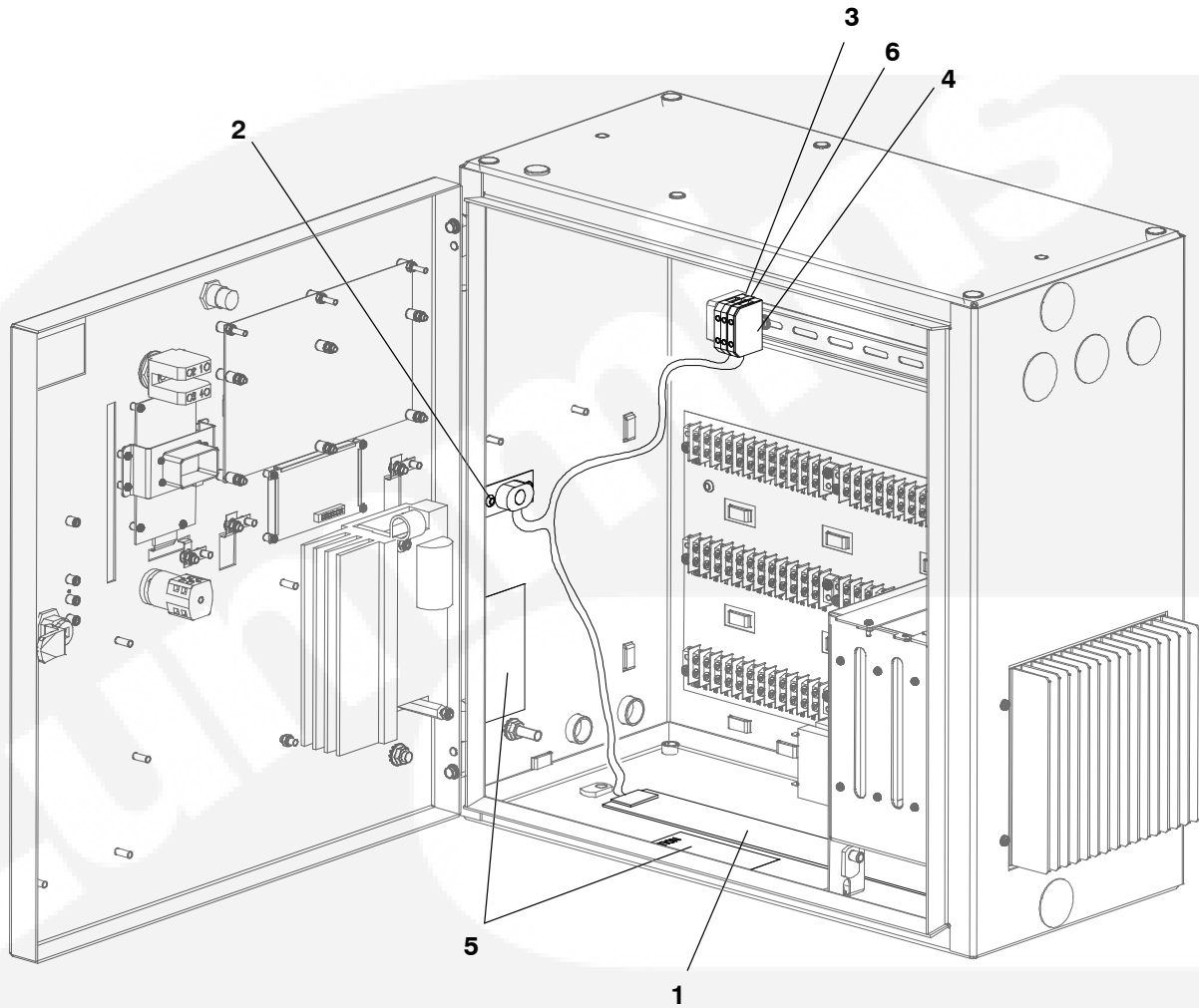
0541-1217 Alternator Kit for HC-7 or MV-7 or P7

0541-1218 Alternator Kit for Frame 8 Mark1

0541-1219 Alternator Kit for P80



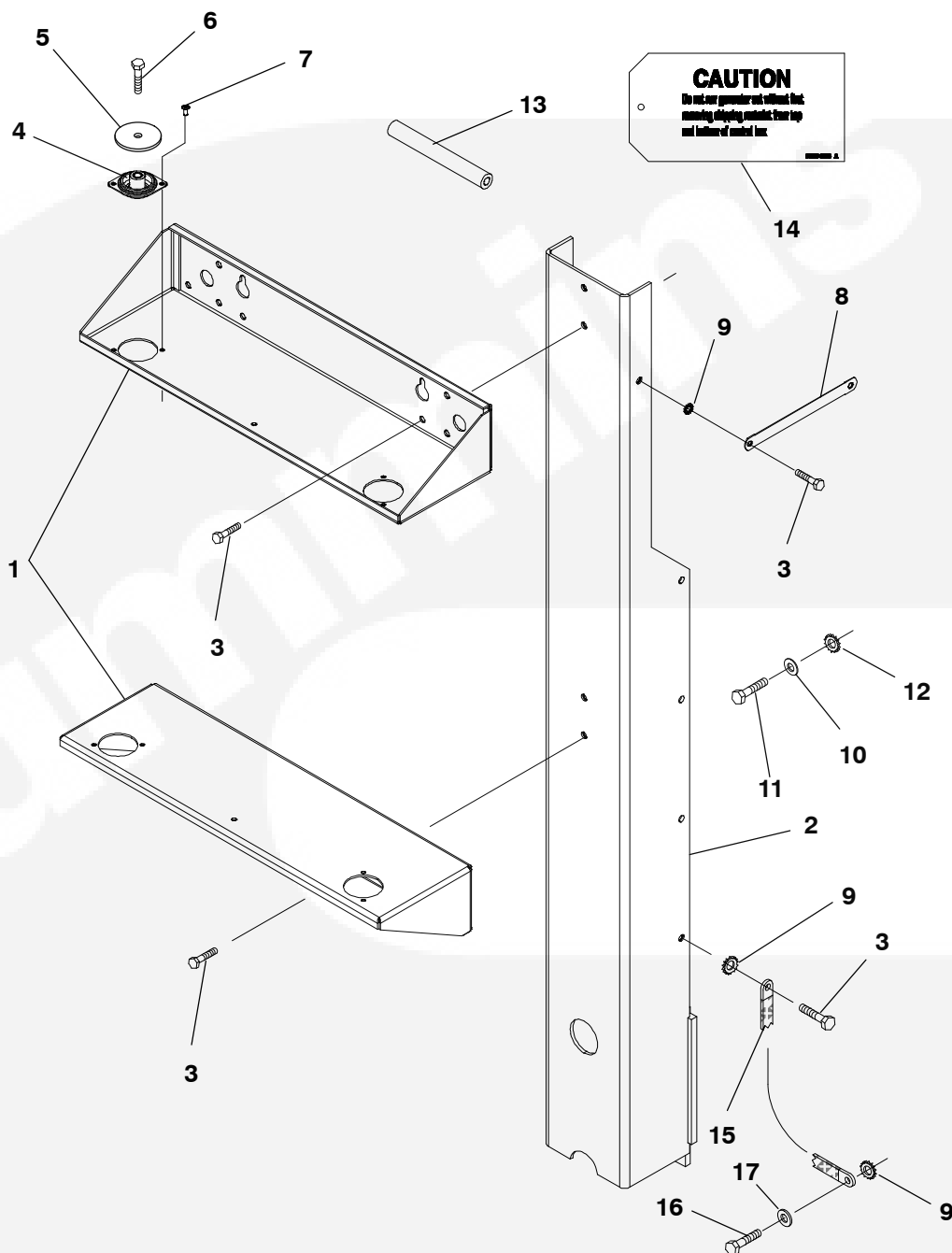
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control – 150 Watt
	333-0645-01	1	120 Volt
	333-0645-02	1	240 Volt
2	818-1150-02	2	Rivet, Drive

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	332-3125-01	2	Block, Terminal
4	332-3126-01	1	Endplate, Terminal
5	098-6195	2	Label, Caution
6	332-4002	1	Block, Terminal – Ground

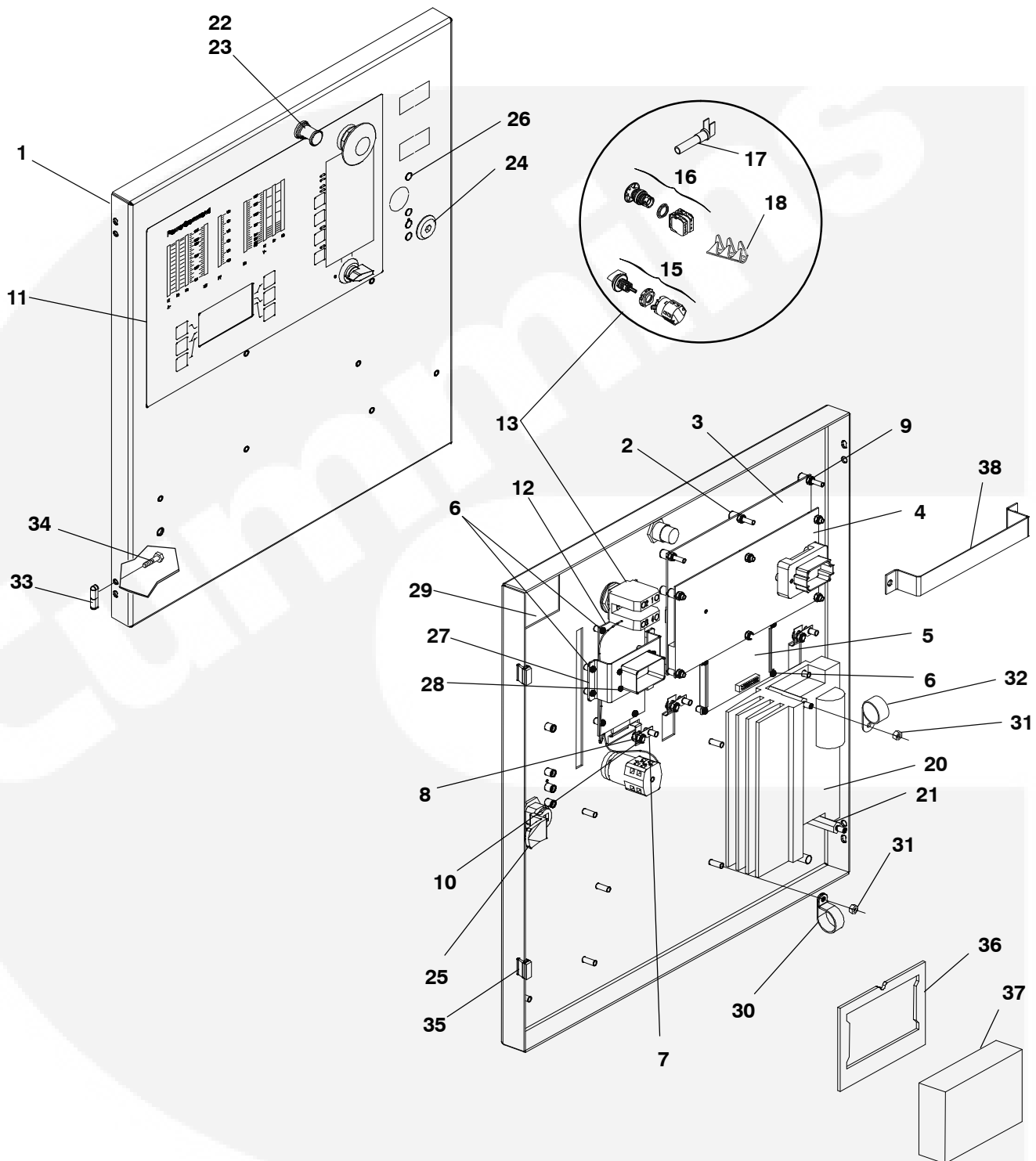
Control Box Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6136-02	2	Bracket, Control
2	319-5993-02	2	Bracket, Control
3	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
4	402-0666-01	4	Isolator, Vibration
5	526-0324	4	Washer, Flat (3/8)
6	815-0776	4	Screw, Hex - Flange Head (M8 x 1.25 x 45)
7	818-0231-02	8	Rivet, Pop
8	337-0049	1	Strap, Bond
9	853-2008	4	Washer, Lock - W/ET (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	526-0128	4	Washer, Flat
11	800-3017-41	4	Screw, Cap - Hex Head (M10 x 1.5 x 45)
12	870-2056	4	Nut, Lock - Flange (M10 x 1.5)
13	503-1418	2	Hose, Fuel
14	098-8186	1	Label, Caution
15	337-3466-02	1	Strap, Bond
16	821-6004-01	9	Screw, Cap - Hex Head (M10 x 1.5 x 20)
17	856-0010	1	Washer, Lock - W/ET (3/8)

Control Door



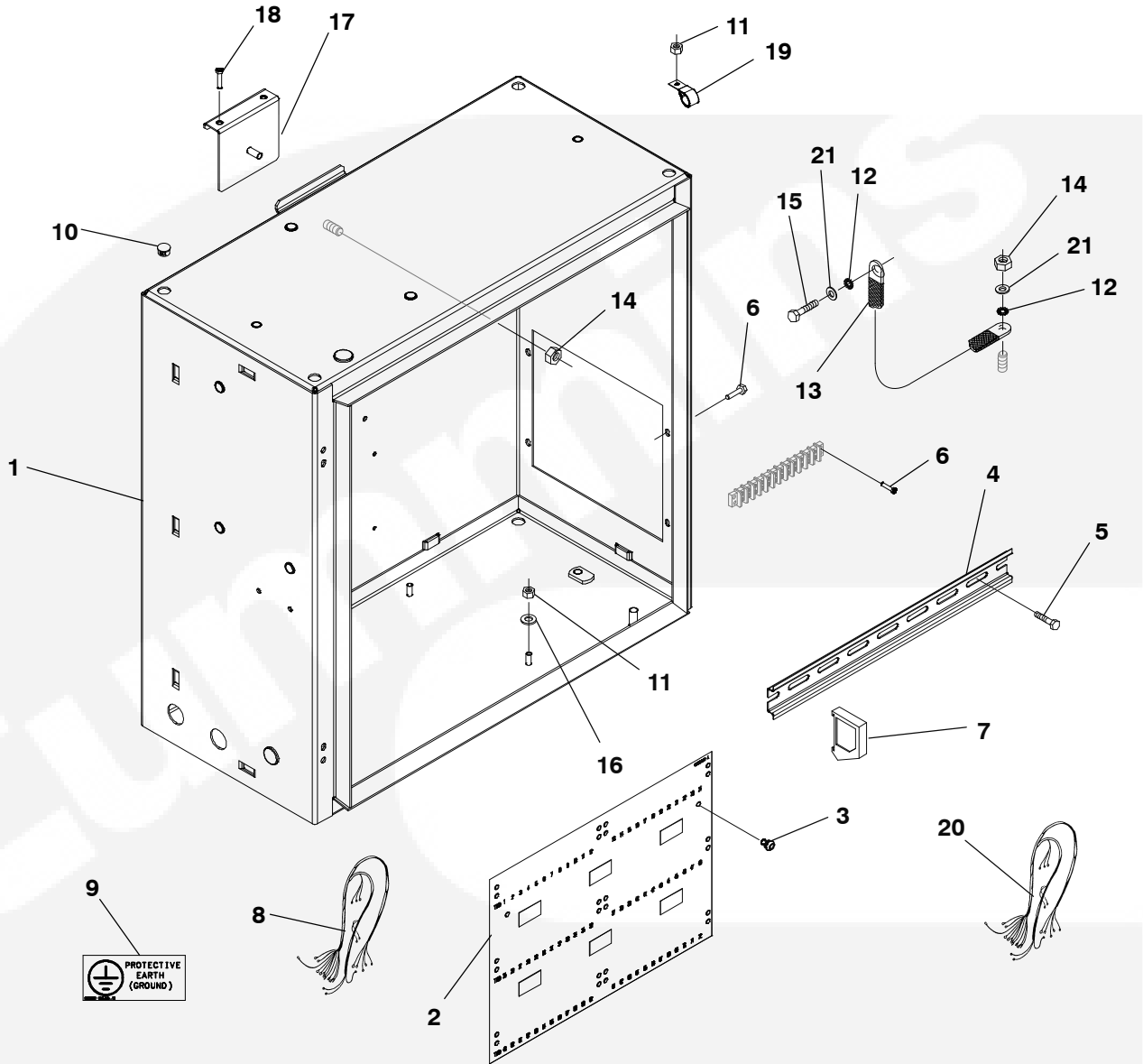
Control Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5018-02	1	Door, Control Box	19	308-1085-01	1	# Switch, Selector – Switch Panel With Key (Not Illustrated)
2	332-1911	15	Spacer, LED	20	300-4306	1	Regulator, Auto Voltage
3	300-5180	1	Board, Printed Circuit – Bargraph	21	872-0019-01	2	Standoff
4	300-5179	1	Board, Printed Circuit – Operator Panel – Digital	22	322-0361	1	Light, Panel
5	326-0230	1	Display, Digital	23	322-0017	1	Lamp, Panel
6	823-0001-01	12	Screw, Pan Head – Thread Forming (M3 x 0.5 x 6)	24	406-0930	1	Latch, Door (1/4 Turn)
7	526-2303	1	Washer, Double Hole	25	406-0932-02	1	Latch, Cam (Single Point)
8	860-2006	3	Nut, Hex (M5 x .8)	26	322-0488	4	Lens, LED
9	870-2064-01	9	Nut, Nyloc (M4)	27	319-4918-02	1	Bracket, Printed Circuit Board
10	870-2062	3	Nut, Nylon – Lock (M5)	28	815-0796	4	Screw, Pan Head – Thread Cutting (4-24 x 5/16)
11	300-5685	1	Display, Control	29	098-6989	1	Label, Bar Code
12	300-5181	1	Board, Printed Circuit – Software Panel	30	425-1799	2	Clamp, Cable
13			Harness, Switch Panel	31	870-2062	4	Nut, Nylon – Lock (M5)
	338-3801	1	Switch Panel With Knob (Includes Parts Marked *)	32	332-0052	1	Clip, Wire
	338-3801-01	1	Switch Panel With Key (Includes Parts Marked #)	33	406-0810	2	Hinge, Block
14	323-1839	1	** Connector – 6 Pin (Not Illustrated)	34	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)
15	308-1085	1	* Switch, Selector – Switch Panel With Knob	35	508-1186	2	Bumper
16	308-0999	1	** Switch, Emergency Stop	36	405-7779	1	Gasket, Enclosure
17	323-1688	6	** Socket, Terminal	37	319-5194	1	Cover, Printed Circuit Board
18	332-3491-01	6	** Terminal, Wire Pin	38	319-5193	1	Bracket, Control

* – Included in 338-3801 Wiring Harness

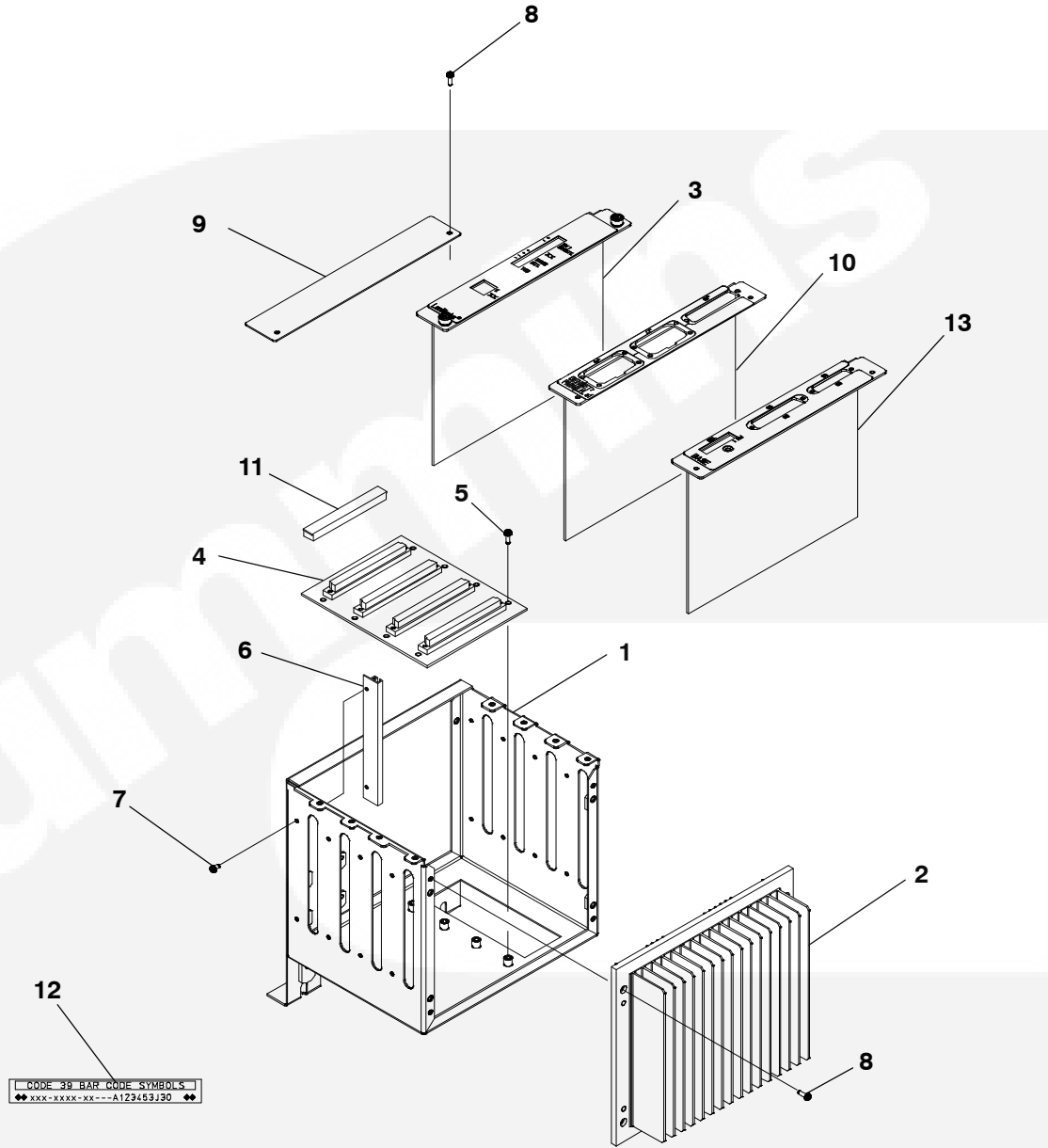
– Included in 338-3801-01 Wiring Harness

Control Box



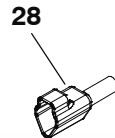
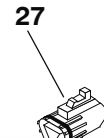
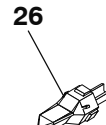
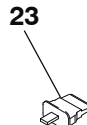
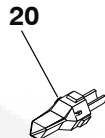
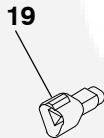
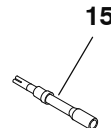
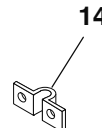
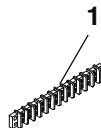
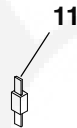
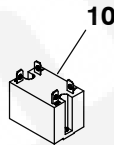
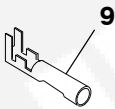
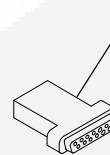
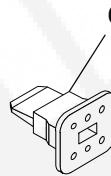
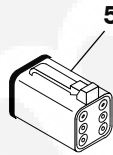
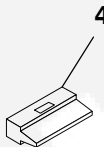
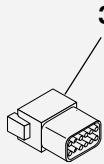
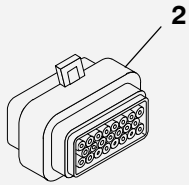
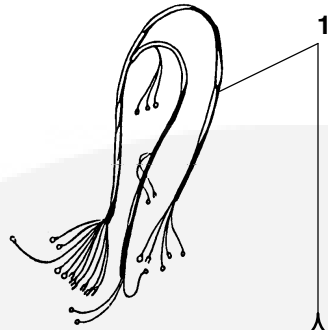
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5014-02	1	Box, Control	12	853-2008	4	Washer, Lock – W/ET (M8)
2	098-8121	1	Label, Information	13	337-0049	2	Strap, Ground
3	818-1150-02	2	Rivet, Drive	14	870-2055	4	Nut, Lock – Flange (M8)
4	332-2879-09	1	Rail,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

Card Cage



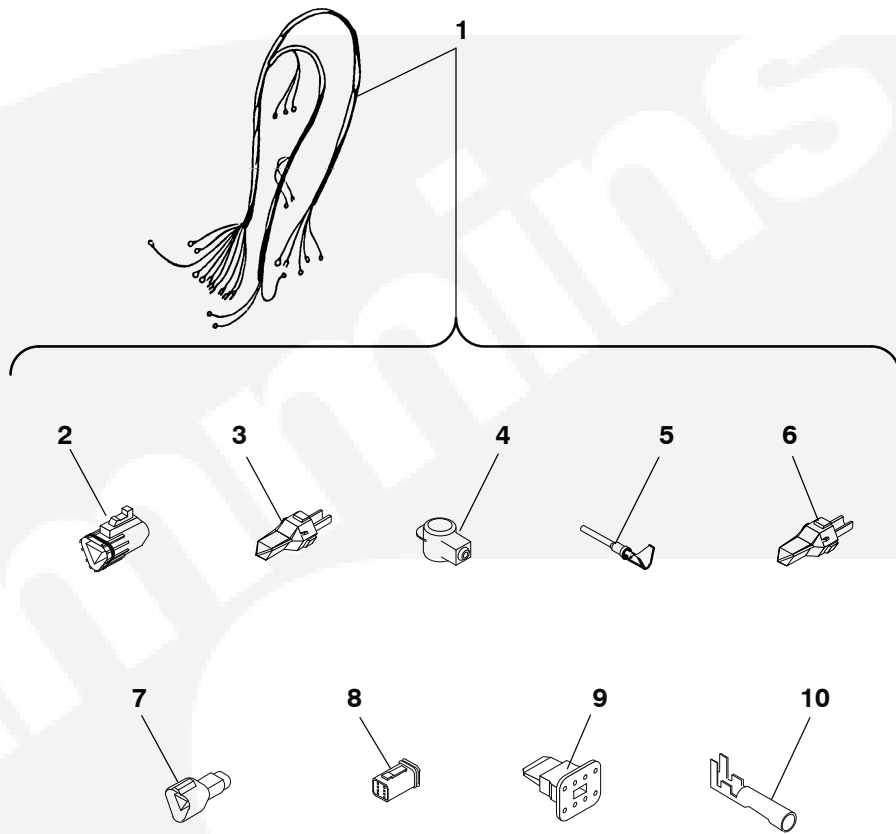
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5096-02	1	Frame, Cabinet	8	815-0947	8	Screw (M3 x 10)
2	363-0183	1	Heatsink, Genset	9	319-5079	A/R	Cover, Control - Blank
3	327-1387	1	Board, Printed Circuit - NCM	10			Board, Printed Circuit - Parallel Genset
4	327-1390	1	Board, Printed Circuit - Backplane		327-1376-01	1	Full Feature (Marked #1)
5	815-0948	8	Screw, Torq (M4 x 6)		327-1376-02	1	Depop Feature (Marked #2)
6			Guide, Metal Guide	11	323-1848	A/R	Cover, 96-Pin Header
	406-0916	4	Left Side	12	098-5926	1	Label, Barcode
	406-0917	4	Right Side	13	327-1392	1	Board, Printed Circuit - Genset Base
7	815-0949	16	Screw (4-40 x 1/4)				

Control Wiring Harness



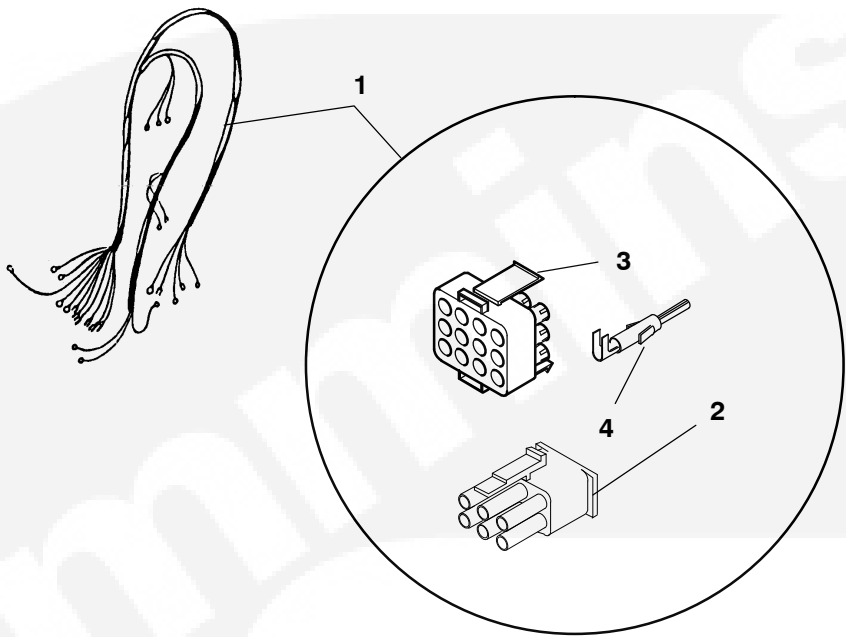
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4744	1	Harness, Wiring – Control (Includes The Following Parts)	13	332-0607	7	Block, Terminal (12 Place)
2			Connector, Plug	14	332-1043	23	Jumper, Terminal
	323-1605-03	1	23 Pin – Grey	15	323-1835-01	79	Contact, Socket
	323-1605-01	2	23 Pin – Natural	16	323-1847-01	13	Contact, Pin
	323-1605-04	1	23 Pin – Blue	17			Grommet
3	323-1582	1	Plug (12 Pin)		323-1843	2	50 Pin
4	323-1583	1	Wedge, Plug (12 Pin)		323-1845	1	25 Pin
5	323-1623	1	Connector, Plug (6 Pin)	18	323-1591	2	Plug, Connector
6	323-1624	1	Wedge, Plug (6 Pin)	19	323-1494	2	Connector, Receptacle (3 Pos)
7			Connector, Contact	20	323-1502	3	Wedge, Receptacle
	323-1841	2	9 Pos	21	308-1180	1	Switch, Pushbutton (E-Stop) (Not Shown)
	323-1836	1	25 Pos	22	323-1542	1	Connector, Receptacle (8 Pos)
	323-1837	2	50 Pos	23	323-1544	1	Wedge, Receptacle
8	323-1492	19	Terminal, Socket	24	321-0416-01	1	Fuse (40 Amp) (Not Shown)
9	323-1614-01	71	Socket, Terminal	25	321-0415	1	Holder, Fuse (Not Shown)
10	307-2968-04	4	Relay, Power (24 Volt) (K14, K15, k20, k21)	26	323-1503	2	Wedge, Plug (3 Pin)
11	357-0030	1	Rectifier, Diode	27	323-1493	2	Connector, Plug (3 Pin)
12	323-1835-02	4	Contact, Socket	28	323-1888	1	Boot, Connector

Engine Wiring Harness



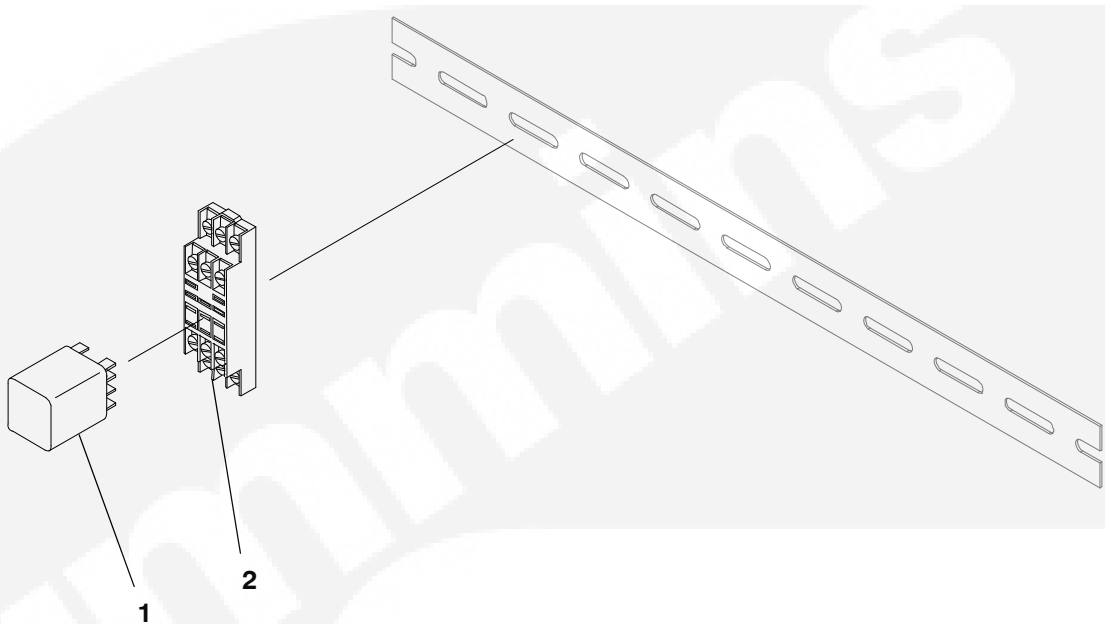
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4673	1	Harness, Wiring – Engine (Includes The Following Parts)	6	323-1502	1	Wedge, Receptacle
2	323-1493	1	Connector, Plug (3 Pin)	7	323-1494	1	Connector, Receptacle (3 Pos)
3	323-1503	1	Wedge, Plug (3 Pin)	8	323-1541	1	Connector, Plug (8 Pin)
4	416-1021-03	4	Boot, Ring (Red)	9	323-1543	1	Connector, Plug (8 Pin)
5	323-1491	3	Terminal, Pin	10	323-1492	3	Terminal, Socket

Wiring Harness
AC



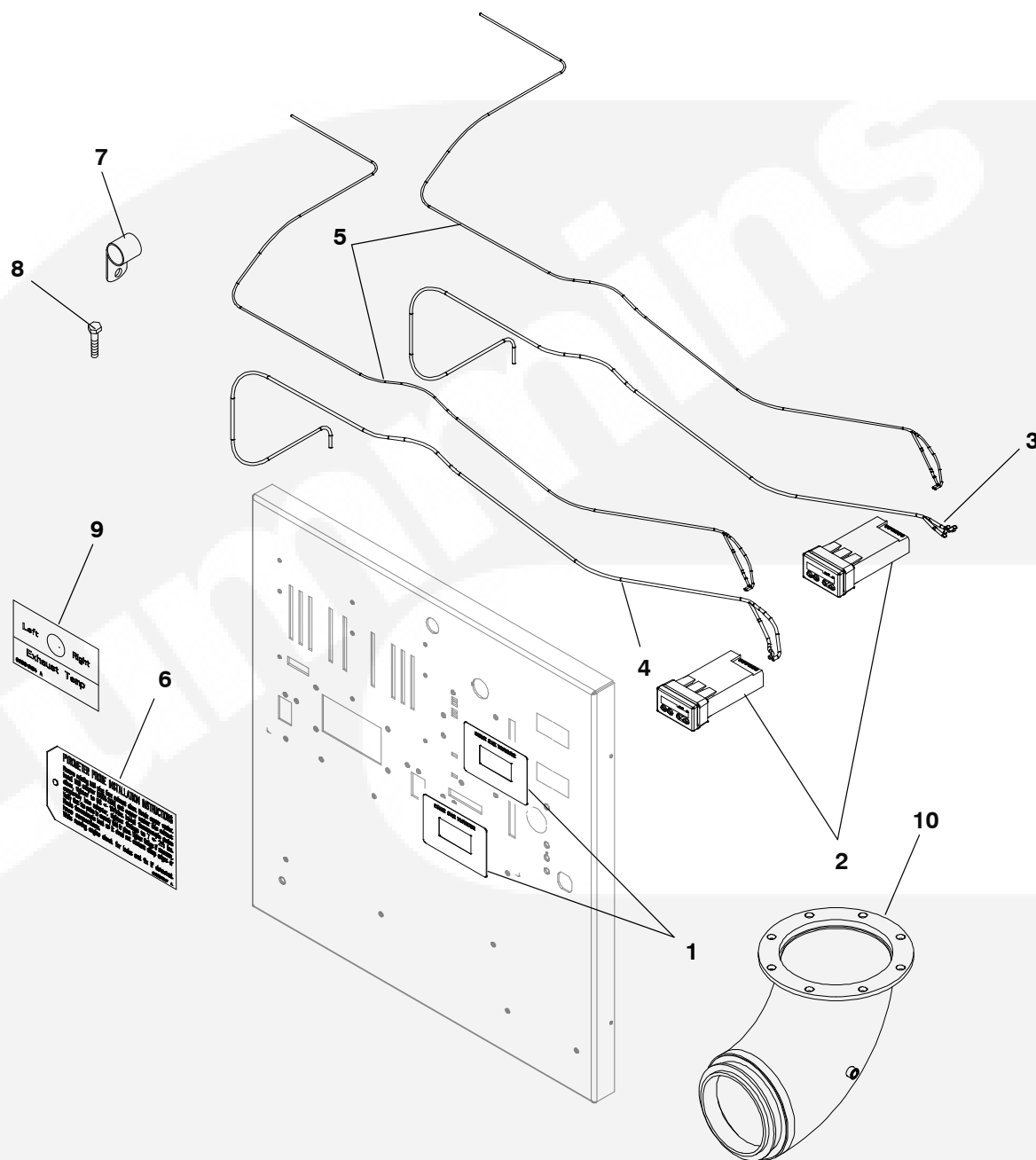
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4317	1	Harness, AC (Includes Parts Listed Below)	3	323-1644-03	1	Housing, Plug and Cap
2	323-1643-01	1	Housing, Plug and Cap	4	323-1648	15	Socket, Terminal

Customer Relays



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

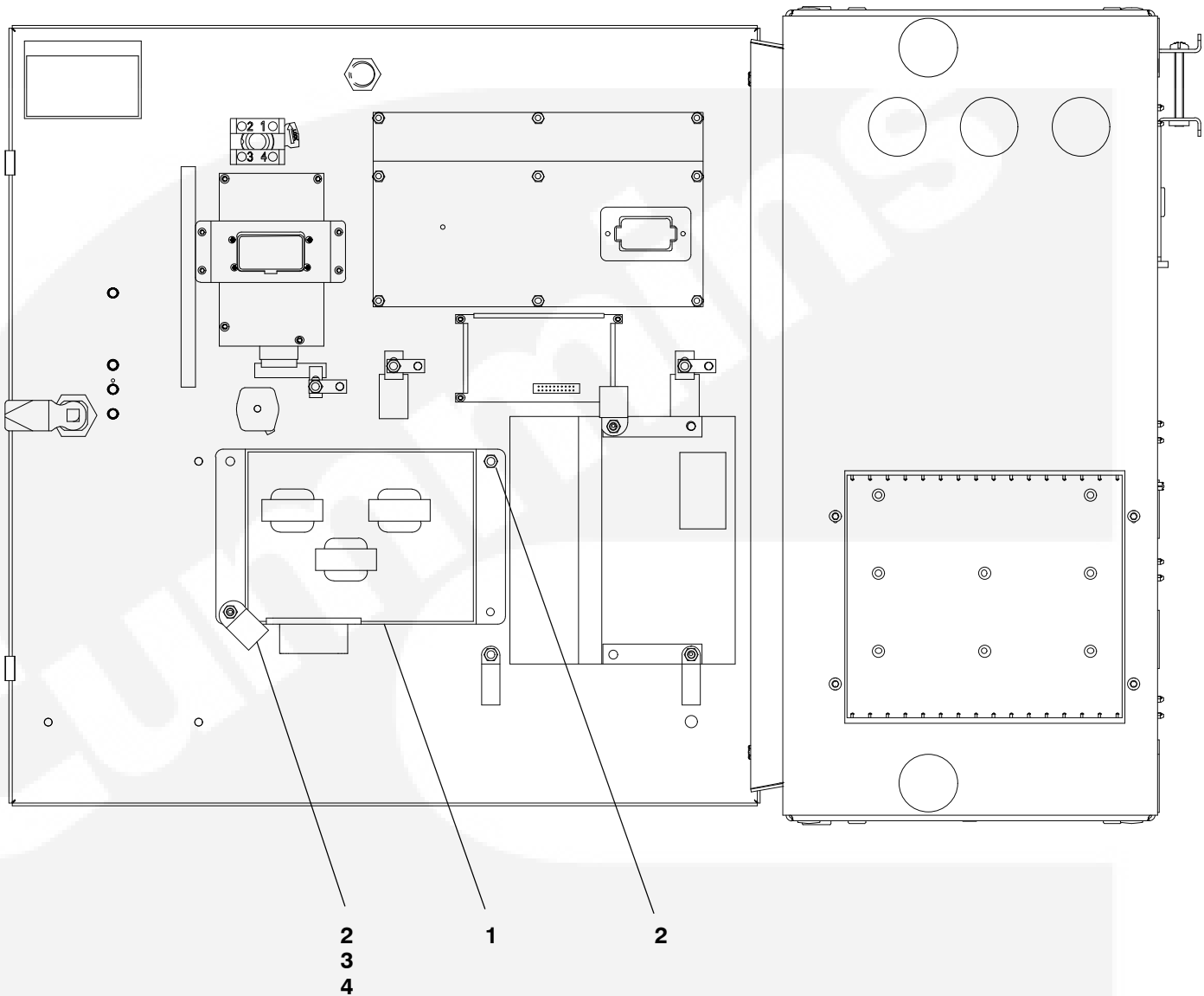
Pyrometer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7720-01	2	Label, Exhaust - Pyrometer
2	300-5796	2	Pyrometer, Exhaust
3	338-4340-01	1	Harness, Meter - Pyrometer (Labeled)
4	338-4340-02	1	Harness, Meter - Pyrometer (Labeled)

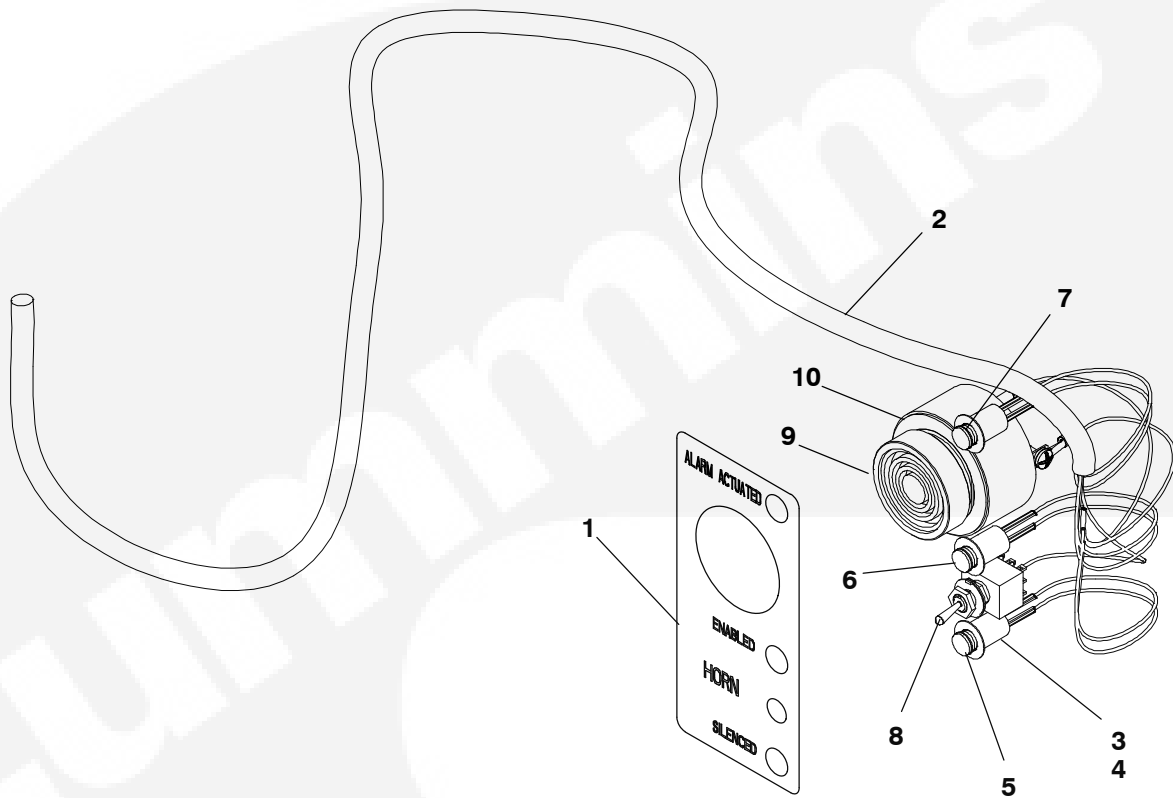
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	193-0493-01	2	Sender, Temperature
6	098-8157	3	Label, Instruction
7	518-0350	9	Clamp
8	821-6003-01	9	Screw
9	098-8184	1	Label, Instruction - Switch
10	155-4560	2	Elbow, Exhaust - Outlet

PT/CT Module



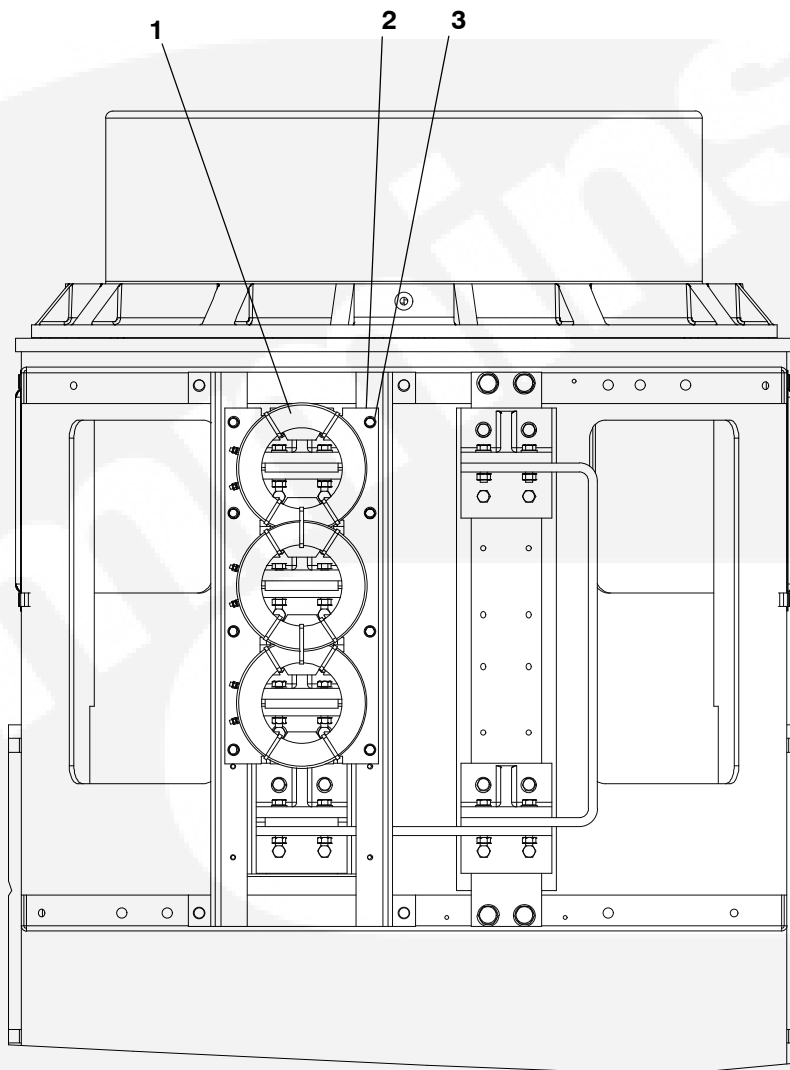
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – PT/CT Module	2	870–2062	2	Nut, Nylon – Lock (M5)
	300–4308–01	1	120 Volts	3	872–0019–01	1	Standoff
	300–4308–02	1	240 Volts	4	332–0052	1	Clip, Wire
	300–4308–03	1	346 Volts				

Audible Alarm Module



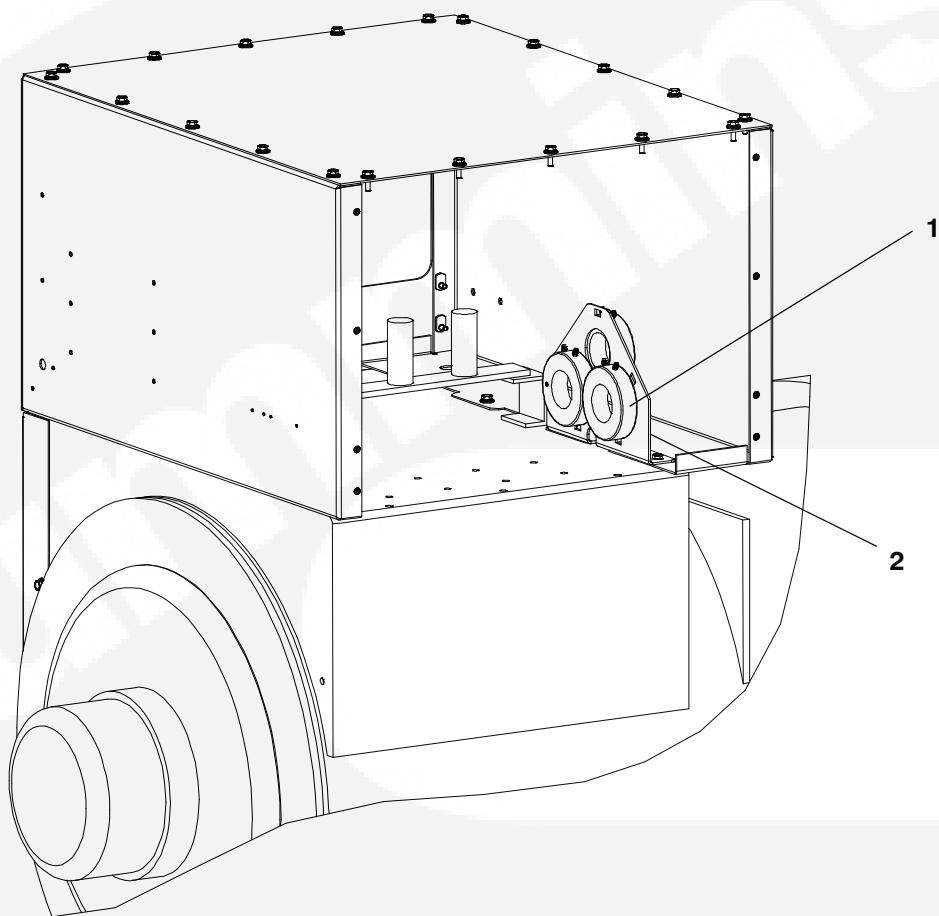
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7719-01	1	Label, Alarm	6	322-0493-04	1	Lens, LED (Green)
2	338-4351	1	Harness, Alarm (Includes the Following Parts)	7	322-0493-06	1	Lens, LED (Red)
3	323-1899-01	3	Connector, LED	8	308-1105	1	Switch, Toggle
4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

Transformer P7 Alternators



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2	319-5740-03	1	Base, Transformer
	302-2057-40	3	2762/1 or 5524/1	3	821-6002-02	8	Screw, Hex Head (M6)
	302-2058-13	3	3943/1				
	302-2058-16	3	4731/1				
	302-2058-38	3	3470/1				

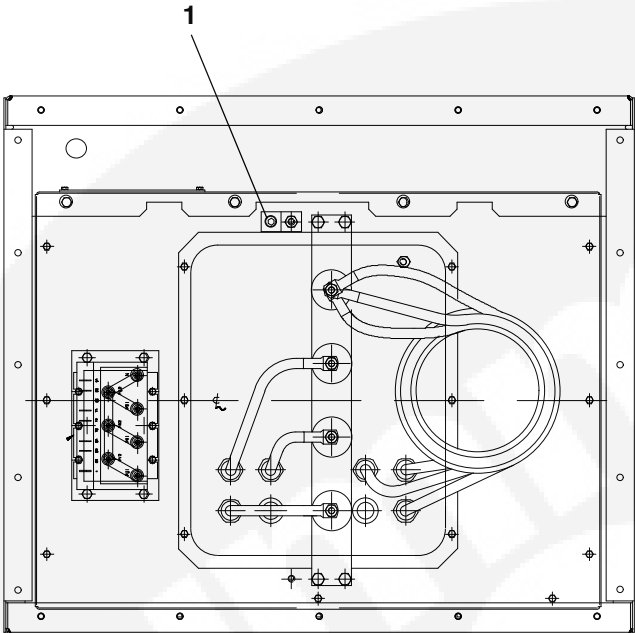
**Transformer
MV Alternators**



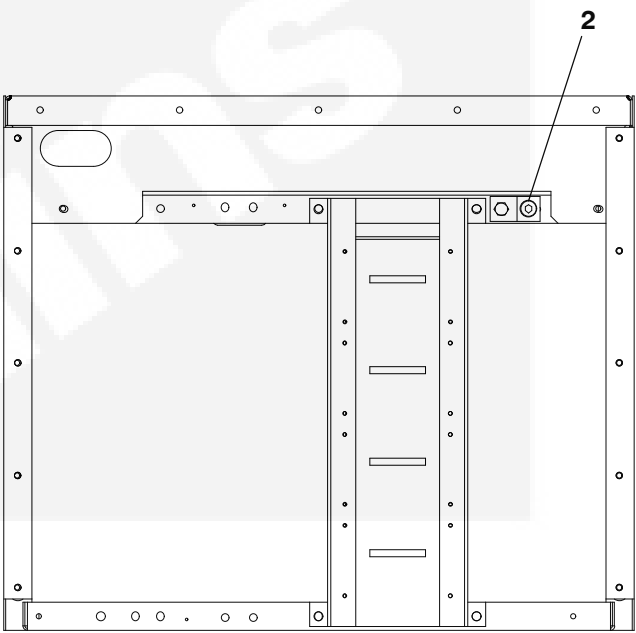
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2057-12	3	Transformer, Current – 473:1/946:1	2	319-5487-02	1	Base, Transformer



Solderless Lug



MV7

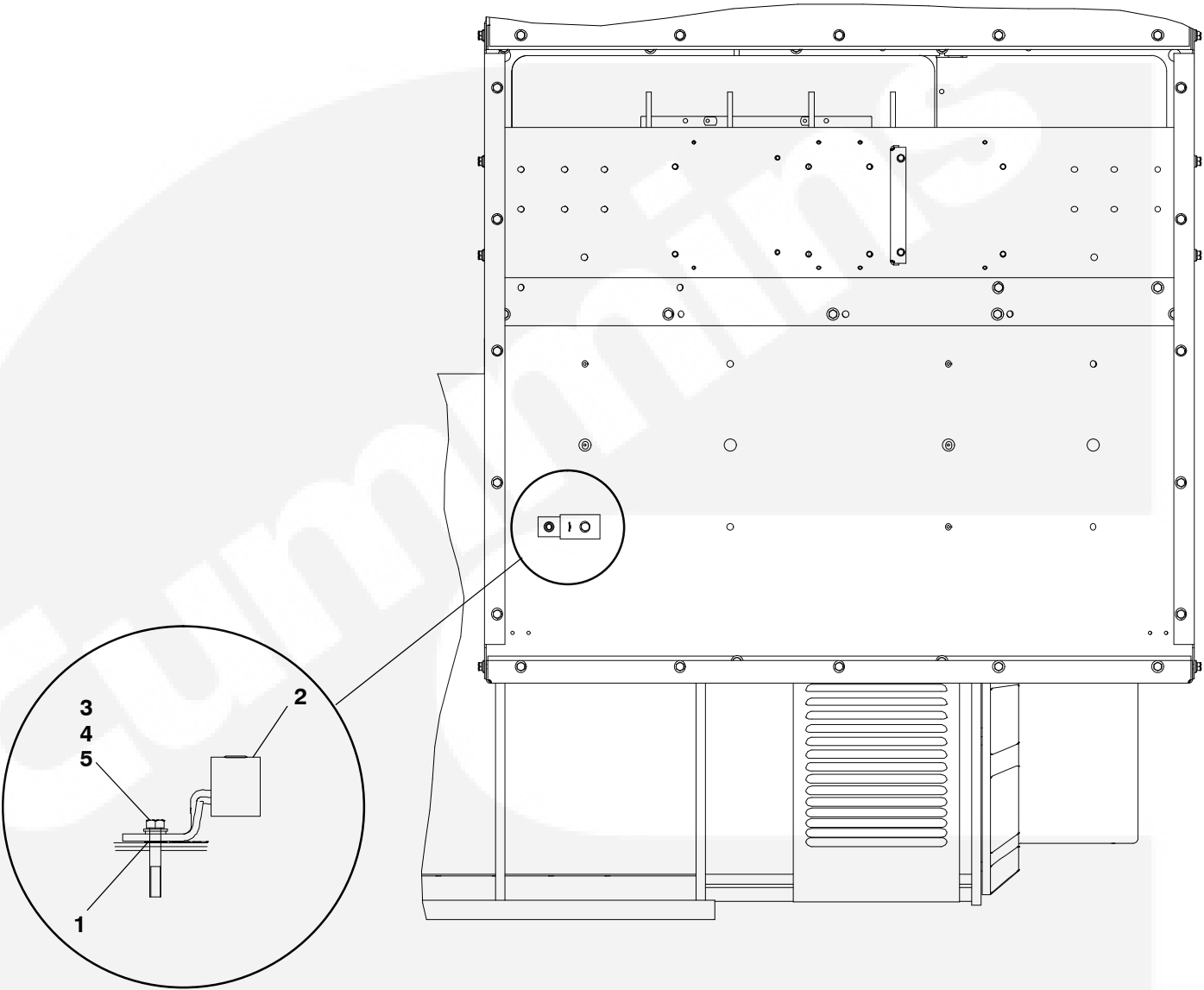


P7

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3653	1	Lug, Solderless – MV7 Alternator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	332-2770-01	1	Lug, Solderless – P7 Alternator

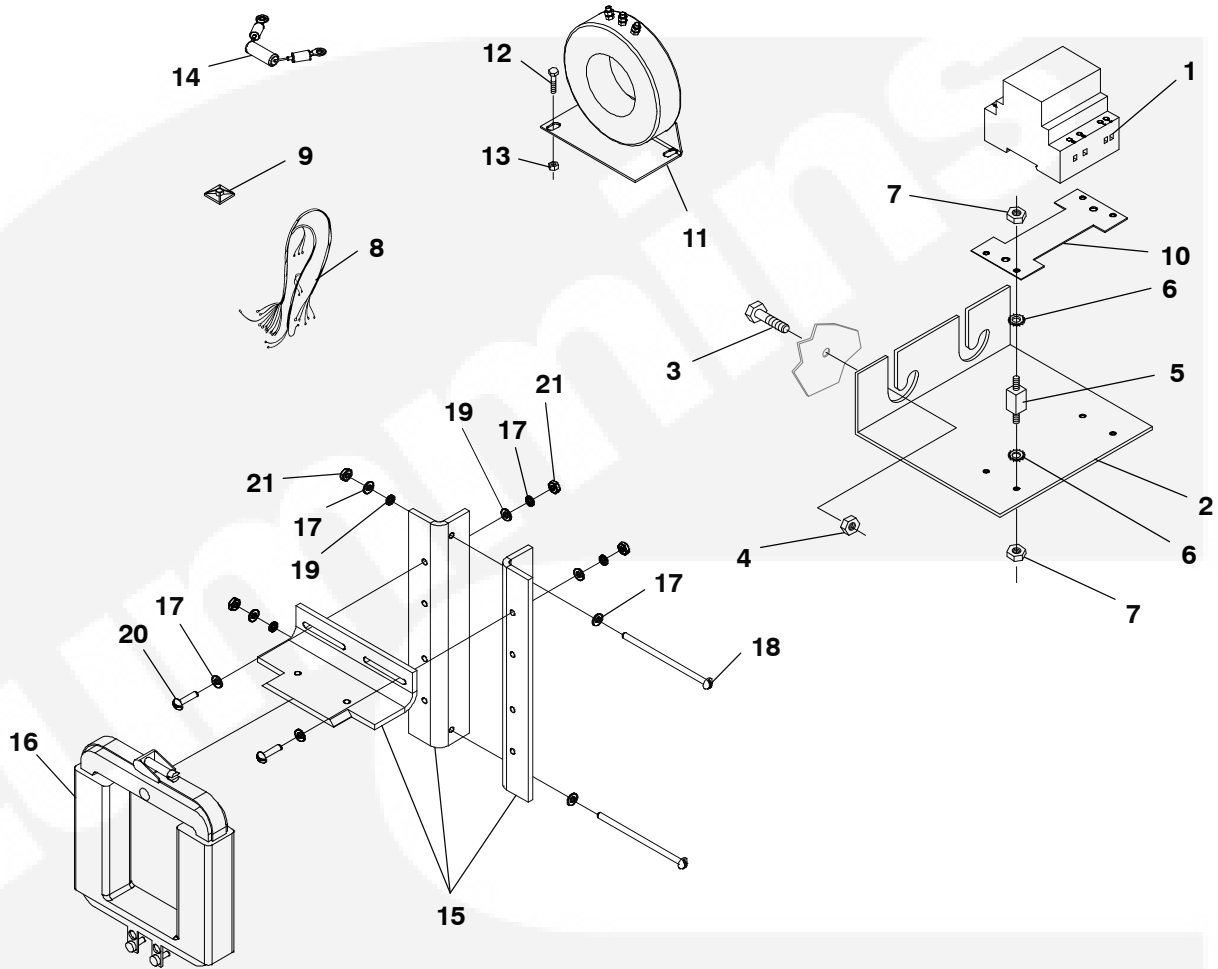
Solderless Lug



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	853-2008	1	Washer, Lock - W/ET
2	332-2001	1	Lug, Solderless
3	850-0114-54	1	Washer, Lock

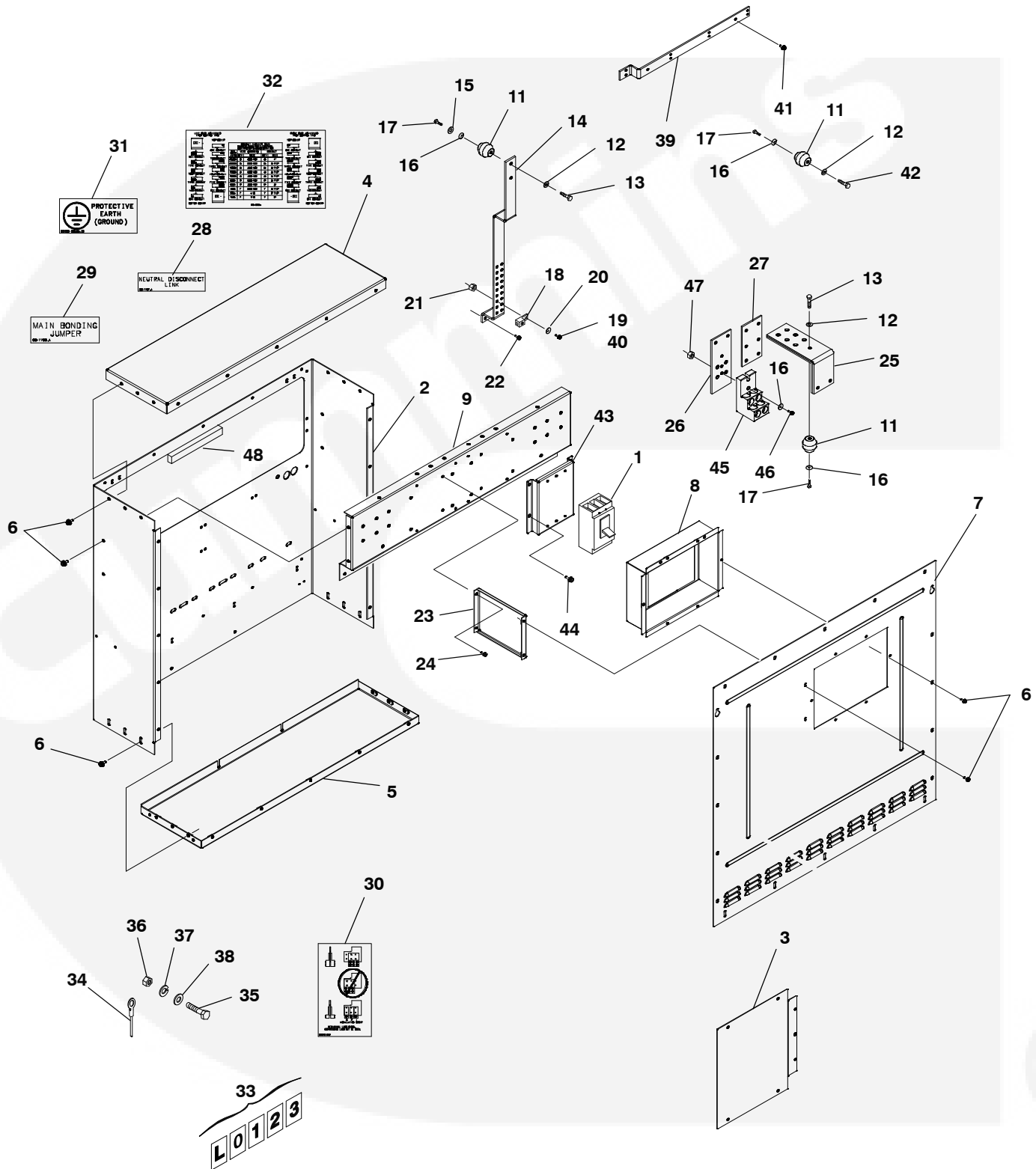
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	526-0399-60	1	Washer, Flat
5	800-2063	1	Screw, Cap - Hex Head

Ground Fault Relay



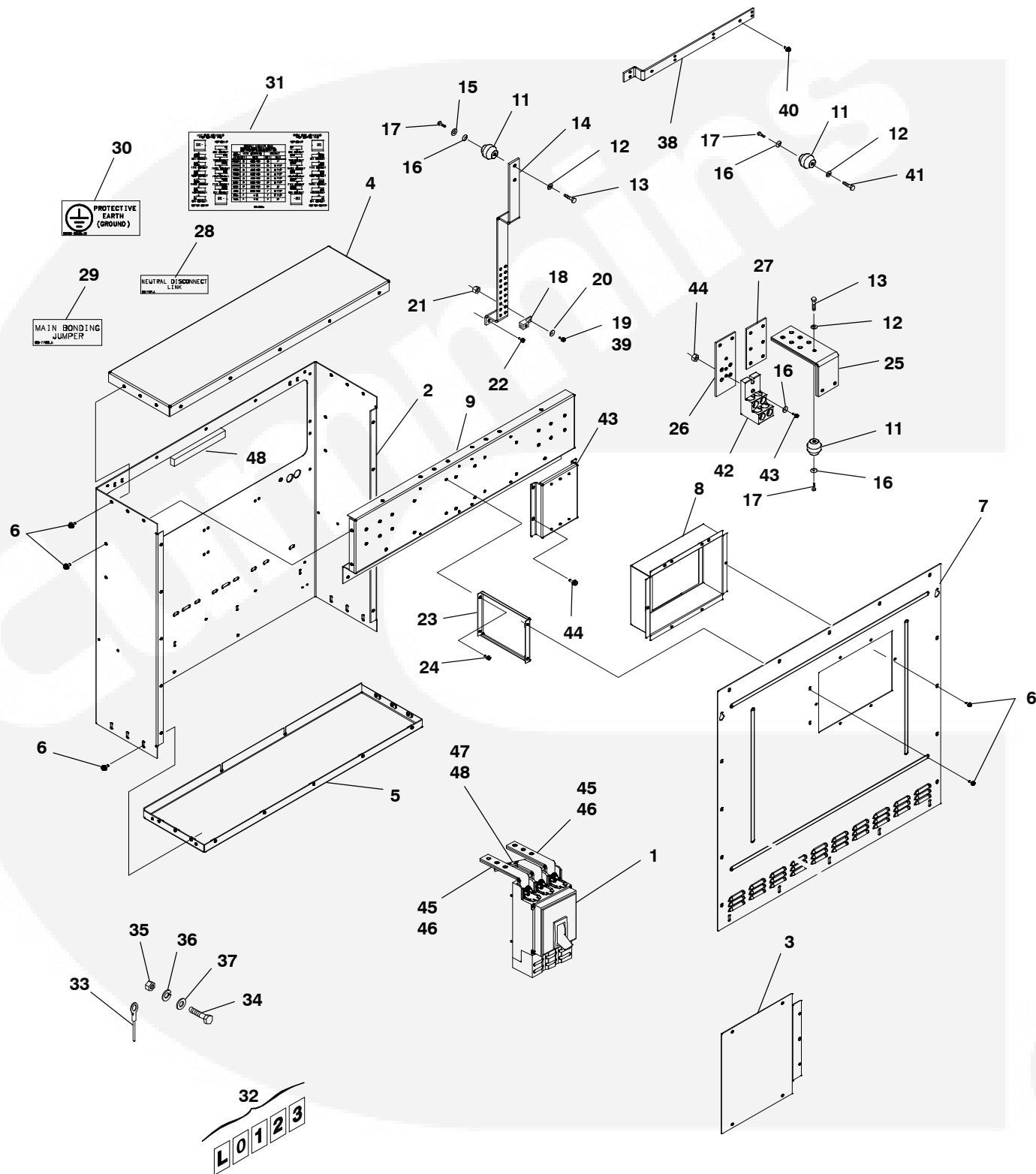
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay, Ground Fault	13	870-0212	2	Nut, Self-Locking (1/4-20)
2	301-6987	1	Bracket, Watts Transducer	14	338-4386	1	Harness, Meter – Resistor
3	821-0017	2	Screw, Locking (5/16-18 x 1/2)	15	315-1622	1	* Bracket, Transformer – Current
4	870-0257	2	Nut, Self-Locking (5/16-18)	16	315-1621	1	* Transformer, Current
5	402-0354	4	Mount, Shock	17	526-0003	8	* Washer, Flat (3/16)
6	853-0005	8	Washer, Lock – W/ET (#8)	18	812-0094	2	* Screw, Slotted – Round Head (#8-32 x 3.50)
7	870-0221	8	Nut, Hex – W/ET (#8-32)	19	850-0025	4	* Washer, Lock – Split (#8)
8	338-4408	1	Harness, Relay	20	812-0082	2	* Screw, Slotted – Round Head (#8-32 x .75)
9	332-2420	2	Mount, Cable Tie	21	860-0008	4	* Nut, Hex (#8-32)
10	319-5038-02	1	Plate, Mounting – Relay	* Used With 3 Pole Non-Separately Derived Transfer Switch			
11	315-1605-01	1	Transformer, Current (Used With 4 Pole Separately Derived Transfer Switch)				
12	821-0010	2	Screw, Locking (1/4-20 x 1/2)				

Circuit Breaker NSJ 600 Amp



45

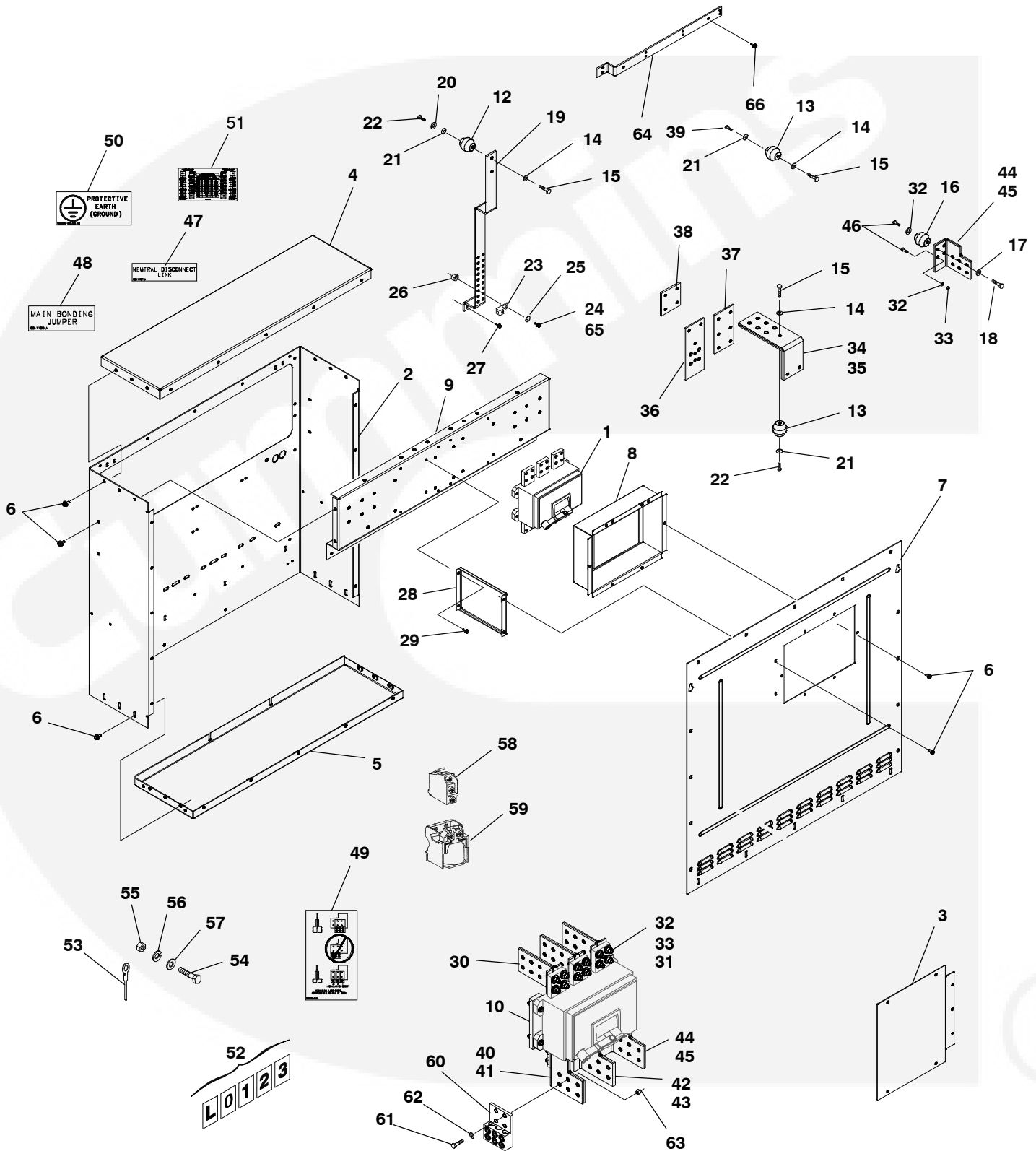
Circuit Breaker P-Frame 800-1200 Amp



Circuit Breaker P-Frame 800–1200 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC)	27	337-3625	1	Bus, Bar – Jumper
	320-2182	1	800 Amp	28	098-7701	1	Label, Neutral Disconnect
	320-2183	1	1200 Amp	29	098-7700	1	Label, Bonding – Jumper
2	319-5161-02	1	Box, Circuit Breaker	30	098-6635	1	Label, Ground
3	319-5084-02	1	Panel, Terminal	31	098-6865	1	Label, Conduit Location
4	319-5171-02	1	Cover, Circuit Breaker – Top	32			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
5	319-5088-02	1	Cover, Circuit Breaker – Bottom		098-5854-06	4	Marked “L”
6	821-6003-02	54	Screw, Hex Head (M8 x 1.25 x 20)		098-5854-07	1	Marked “1”
7			Cover, Circuit Breaker		098-5854-08	1	Marked “2”
	319-5176-04	1	Left Side Installation		098-5854-09	1	Marked “3”
	319-5176-05	1	Right Side Installation		098-5854-10	1	Marked “0”
8	319-5078-05	1	Cup, Switch	33			Lead (Quantity Used As Required)
9	319-5179-02	1	Bracket, Circuit Breaker		226-4894-08 A/R		23”
10	098-8144	1	Label, Information – Service Disconnect		226-4894-02 A/R		18”
11	332-2512	8	Standoff, Insulator	34	800-2114	24	Screw, Cap – Hex Head (M12 x 1.75 x 40)
12	850-0050	8	Washer, Lock – Split (3/8)	35	860-2010	24	Nut, Hex (M12)
13	800-0048	8	Screw, Cap – Hex Head (3/8–16 x .75)	36	850-2012	24	Washer, Lock – Split (M12)
14	337-3632	1	Bus, Bar – Ground	37	526-2140	24	Washer, Flat (M12)
15	526-0423	2	Washer, Flat	38	337-3736	1	Bus, Bar – Ground
16	851-0048-02	10	Washer, Belleville (3/8)	39	800-0030	2	Screw, Cap – Hex Head (5/16–18 x 1-1/4)
17	800-0050	6	Screw, Cap – Hex Head (3/8–16 x 1”)	40	800-2063	2	Screw, Cap – Hex Head (M8 x 50)
18	332-3039	5	Lug, Solderless	41	800-0049	2	Screw, Cap – Hex Head (3/8–16 x .88)
19	800-0028	3	Screw, Cap – Hex Head (5/16–18 x 1”)	42	332-1557	1	Lug
20	851-0048-01	5	Washer, Belleville (5/16)	43	800-0053	2	Screw, Cap – Hex Head (3/8–16 x 1.75)
21	862-0015	5	Nut, Hex (5/16)	44	862-0003	2	Nut, Hex – Heavy (3/8)
22	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	45	337-3629-01	2	Bus, Bar – Breaker
23	319-5102-04	1	Stiffener, Cover	46	337-3629-02	2	Bus, Bar – Breaker
24	821-6002-03	10	Screw, Hex Head (M6 x 1 x 20)	47	337-3628-01	1	Bus, Bar – Breaker
25	337-3623	1	Bus, Bar – Neutral	48	337-3628-02	1	Bus, Bar – Breaker
26	337-3631	1	Bus, Bar – Neutral				

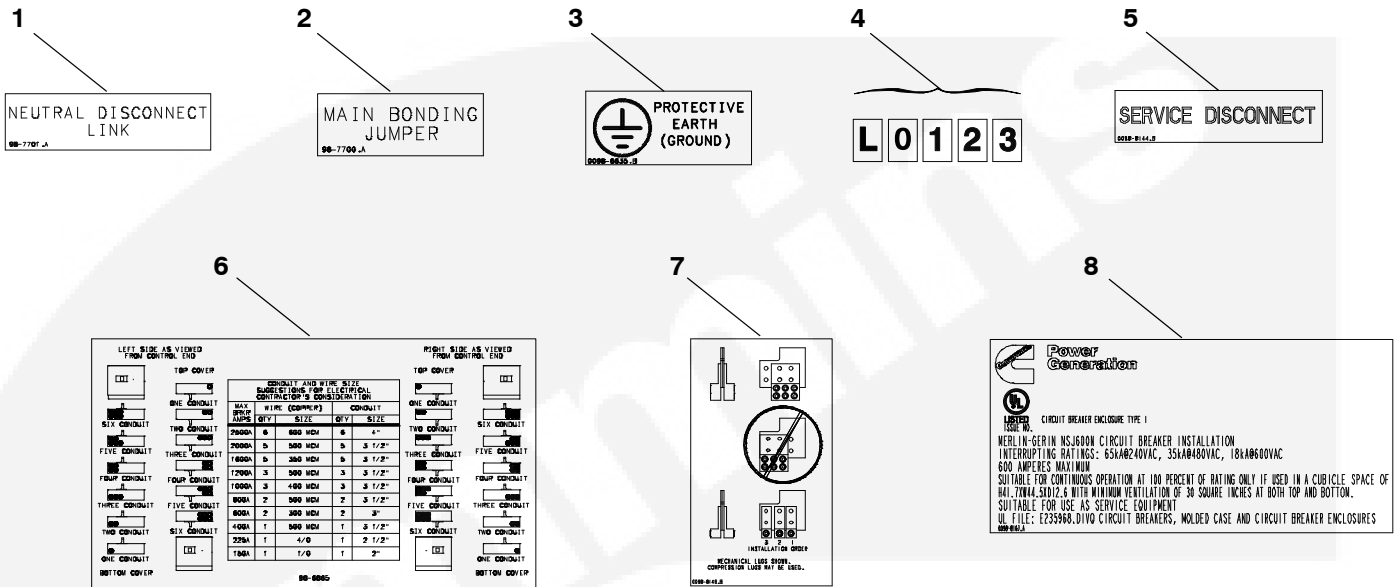
Circuit Breaker R-Frame 1600-2500 Amp



Circuit Breaker R-Frame 1600–2500 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	40			Bus, Bar – Breaker
	320-2164-03	1	1600 Amp		337-3620-02	2	Left Side Insulation
	320-2164-02	1	2000 Amp		337-3620-02	1	Right Side Insulation
	320-2164-01	1	2500 Amp	41			Bus, Bar – Breaker
2	319-5161-02	1	Box, Circuit Breaker		337-3621-02	2	Left Side Insulation
3	319-5084-02	1	Panel, Terminal	42	337-3619-01	1	Right Side Insulation
4	319-5171-02	1	Cover, Circuit Breaker – Top	43	337-3619-02	1	Bus, Bar – Breaker
5	319-5088-02	1	Cover, Circuit Breaker – Bottom	44			Bus, Bar – Breaker
6	821-6003-02	54	Screw, Hex Head (M8 x 1.25 x 20)		337-3620-01	1	Left Side Insulation
					337-3620-01	2	Right Side Insulation
7			Cover, Circuit Breaker	45			Bus, Bar – Breaker
	319-5176-04	1	Left Side Installation		337-3621-01	1	Left Side Insulation
	319-5176-05	1	Right Side Installation		337-3621-01	2	Right Side Insulation
8	319-5078-04	1	Cup, Switch	46	800-0093	4	Screw, Cap – Hex Head (1/2–13 x 1.75)
9	319-5177-02	1	Bracket, Circuit Breaker	47	098-7701	1	Label, Neutral Disconnect
10	232-4131	2	Spacer, Mounting Foot	48	098-7700	1	Label, Bonding – Jumper
11	098-8144	1	Label, Information – Service Disconnect	49	098-8149	1	Label, Information – Lug Installation
12	332-2744-07	2	Standoff, Insulator	50	098-6635	1	Label, Ground
13	332-2512	5	Standoff, Insulator	51	098-6865	1	Label, Conduit Location
14	850-0050	7	Washer, Lock – Split (3/8)	52			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
15	800-0048	7	Screw, Cap – Hex Head (3/8–16 x .75)				
16	332-2743-07	1	Standoff, Insulator		098-5854-06	4	Marked “L”
17	850-0060	1	Washer, Lock – Split (1/2)		098-5854-07	1	Marked “1”
18	800-0090	1	Screw, Cap – Hex Head (1/2–13 x 1.00)		098-5854-08	1	Marked “2”
					098-5854-09	1	Marked “3”
19	337-3626	1	Bus, Bar – Ground		098-5854-10	1	Marked “0”
20	526-0423	2	Washer, Flat	53			Lead (Quantity Used As Required)
21	851-0048-02	7	Washer, Belleville (3/8)				
22	800-0050	3	Screw, Cap – Hex Head (3/8–16 x 1”) A/R		226-4894-08	A/R	23”
					226-4894-02	A/R	18”
23	332-3039	7	Lug, Solderless	54	800-2114	30	Screw, Cap – Hex Head (M12 x 1.75 x 40)
24	800-0028	5	Screw, Cap – Hex Head (5/16–18 x 1”) A/R				
				55	860-2010	30	Nut, Hex (M12)
25	851-0048-01	7	Washer, Belleville (5/16)	56	850-2012	30	Washer, Lock – Split (M12)
26	862-0015	7	Nut, Hex (5/16)	57	526-2140	30	Washer, Flat (M12)
27	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	58	320-2196-01	2	Accessories, Circuit Breaker: Switch – Used as a Trip Alarm or Auxiliary Contact
28	319-5102-03	1	Stiffener, Cover	59	320-2196-02	1	24 Volt Shunt Trip
29	821-6002-04	10	Screw, Hex Head (M6 x 1 x 20)	60	332-3949	8	Lug, Cable – Solderless
30	337-3618	6	Bus, Bar – Breaker	61	800-0054	16	Screw, Cap – Hex Head (3/8–16 x 2.00)
31	800-0094	24	Screw, Cap – Hex Head (1/2–13 x 2)				
				62	851-0022	16	Washer, Spring (3/8)
32	851-0048-03	28	Washer, Belleville (1/2)	63	862-0003	16	Nut, Hex (3/8)
33	862-0005	27	Nut, Hex (1/2)	64	337-3736	1	Bus, Bar – Ground
34	337-3623	1	Bus, Bar – Neutral	65	800-0030	2	Screw, Cap – Hex Head (5/16–18 x 1-1/4)
35	337-3624	1	Bus, Bar – Neutral				
36	337-3631	2	Bus, Bar – Neutral	66	800-2063	2	Screw, Cap – Hex Head (M8 x 50)
37	337-3625	1	Bus, Bar – Jumper				
38	337-3627	1	Bus, Bar – Neutral				
39	800-0052	4	Screw, Cap – Hex Head (3/8–16 x 1.5)				

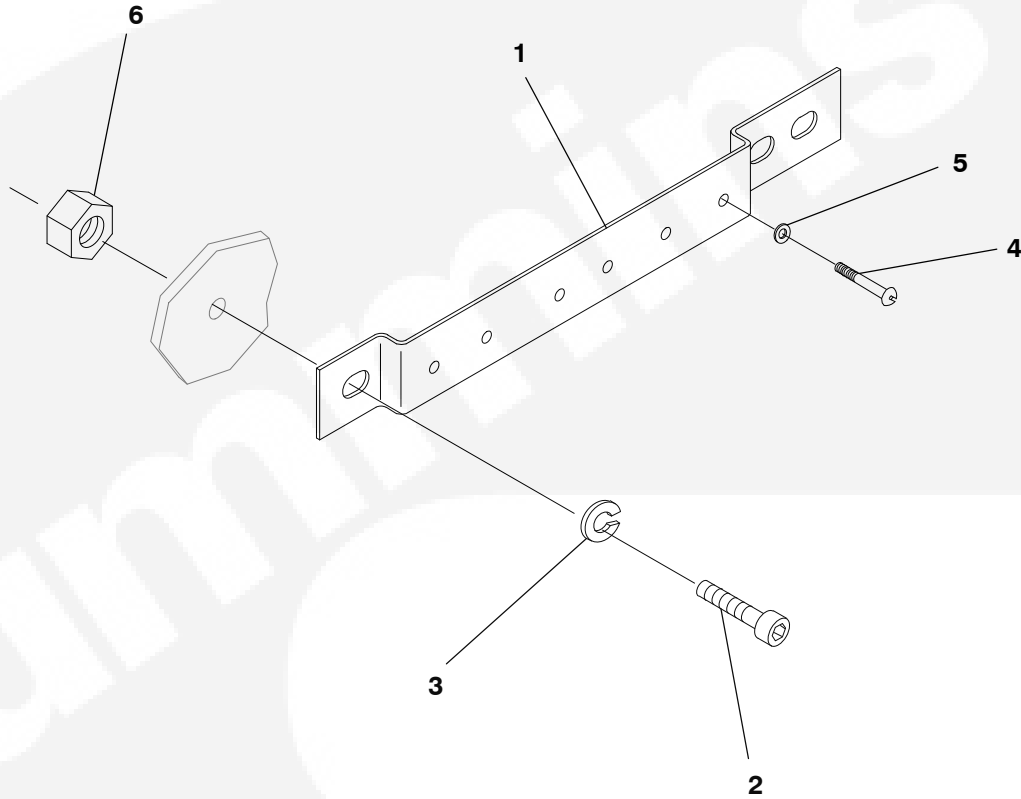
Labels – Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7701	1	Label, Neutral Disconnect Link
2	098-7700	1	Label, Bonding Jumper
3	098-6635	1	Label, Ground
4			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
	098-5854-06	1	Marked "L"
	098-5854-07	1	Marked "1"
	098-5854-08	1	Marked "2"
	098-5854-09	1	Marked "3"
	098-5854-10	1	Marked "0"
5	098-8144	1	Label, Information (Service Disconnect)
6	098-6865	1	Label, Conduit Location
7	098-8149	1	Label, Information (Lug Installation)

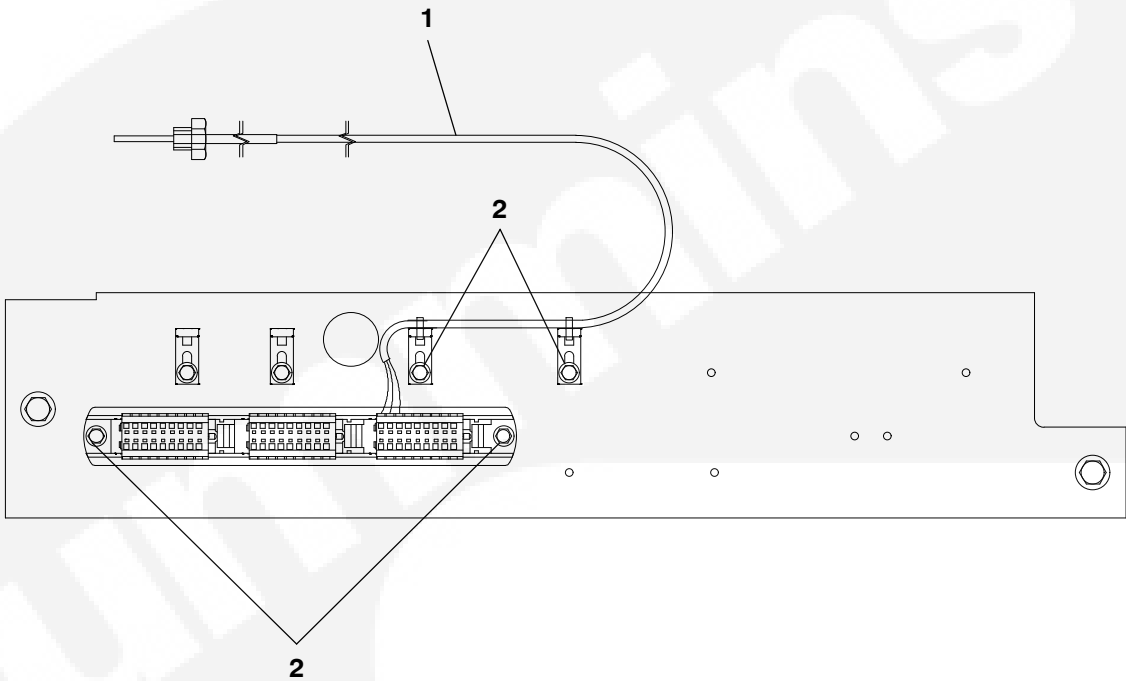
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8			Label, Information
	098-8167	1	NSJ – 600 Amp
	098-8168	1	P-Frame – 800 Amp
	098-8169	1	P-Frame – 1200 Amp (150V Line to Neutral Maximum)
	098-8173	1	P-Frame – 1200 Amp (Alternate Source for Emergency Service)
	098-8174	1	R-Frame – 1600 Amp (Alternate Source for Emergency Service)
	098-8175	1	R-Frame – 2000 Amp (Alternate Source for Emergency Service)
	098-8176	1	R-Frame – 2500 Amp (Alternate Source for Emergency Service)
	098-8170	1	R-Frame – 1600 Amp (150V Line to Neutral Maximum)
	098-8171	1	R-Frame – 2000 Amp (150V Line to Neutral Maximum)
	098-8172	1	R-Frame – 2500 Amp (150V Line to Neutral Maximum)

Resistive Temperature Detector



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1293	1	Bracket	4	812-0070	4	Screw, Machine – Round Head (#6-32 x 1-1/4")
2	800-2080	2	Screw, Cap – Hex Head (M10 x 12)	5	526-0002	4	Washer, Flat (#6)
3	850-2010	2	Washer, Lock – Spring (M10)	6	870-0281	2	Nut, Hex – Locking (3/8-16)

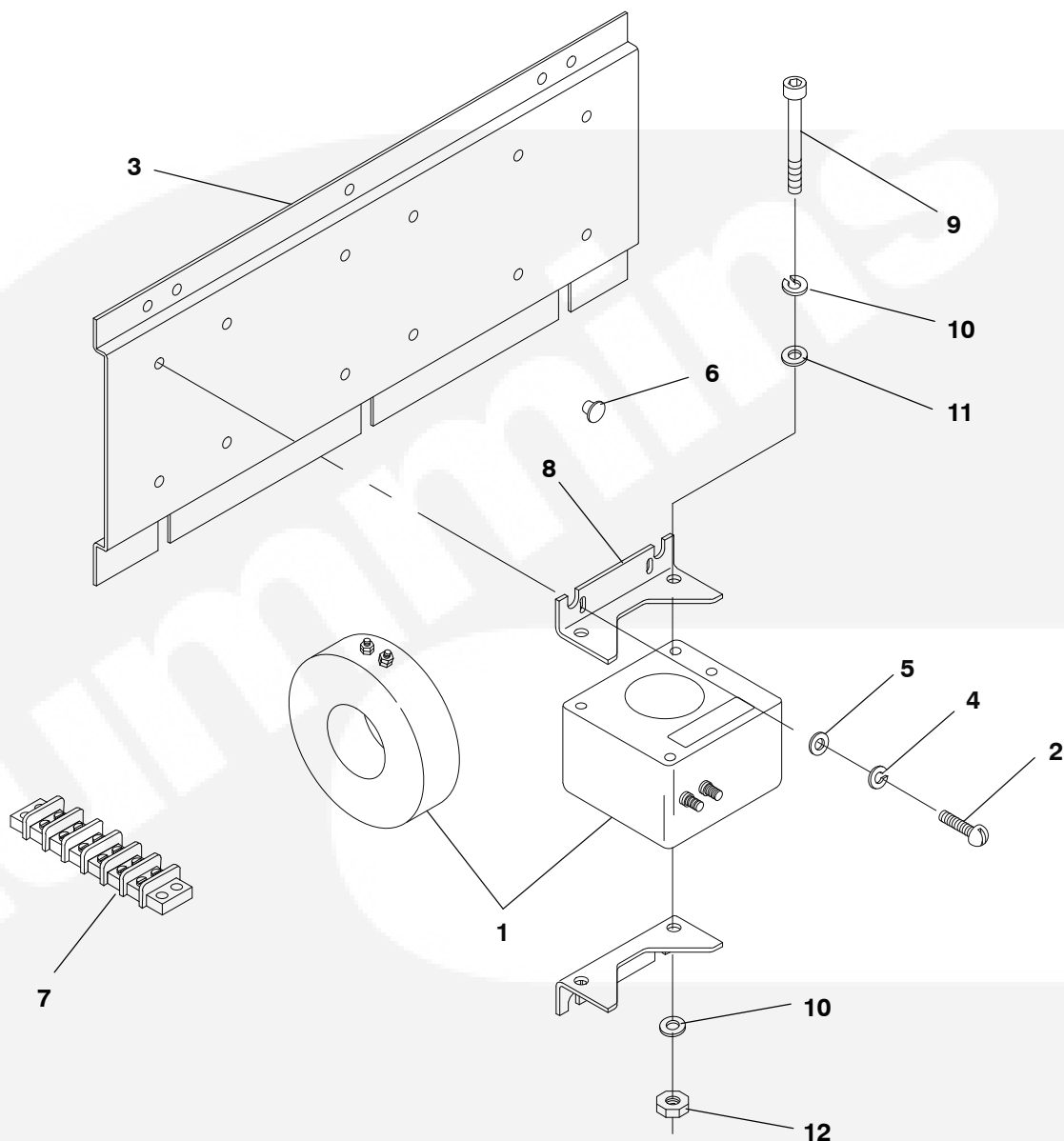
Resistive Temperature Detectors Package



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Detectors, Resistive Detectors
	179-3696-01	1	- Package
	179-3696-02	1	Without Mounting Plate
			With Mounting Plate

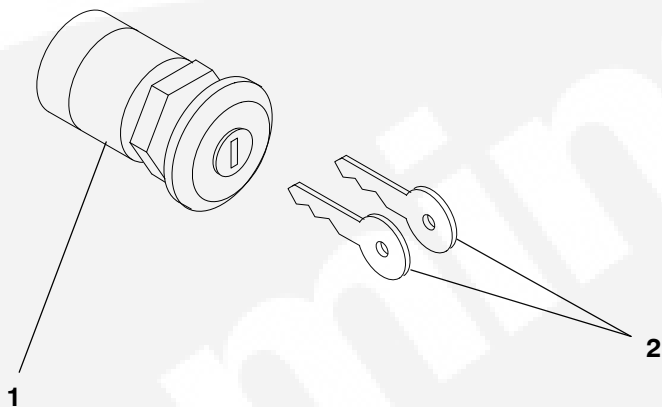
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Screw, Cap - Hex Head
	821-6001-02	2	Without Mounting Plate
	821-6001-02	4	With Mounting Plate

Differential Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	6	517-0090	A/R	Plug, Tapered
	302-1945-05	3	300:5 Ratio	7	332-3178-01	1	Block, Short Circuit (Includes Short Circuit Strips and Four Shoring Pins)
	302-1945-06	3	400:5 Ratio	8	319-3297	6	Bracket, Current Transformer
	302-2060-05	3	2000:5 Ratio	9	800-0039	6	Screw, Cap - Hex Head (5/16-18 x 3-1/2)
	302-2060-06	3	2500:5 Ratio	10	526-0022	12	Washer, Flat
	302-2060-07	3	3000:5 Ratio	11	850-0045	6	Washer, Lock (5/16)
2	813-0098	12	Screw, Round Head (10-32 x 3/8)	12	862-0015	6	Nut, Hex (5/16-18)
3	319-1265	1	Bracket, Current Transformer				
4	850-0030	12	Washer, Lock (#10)				
5	526-0008	12	Washer, Flat (#10)				

Key Operator Switch

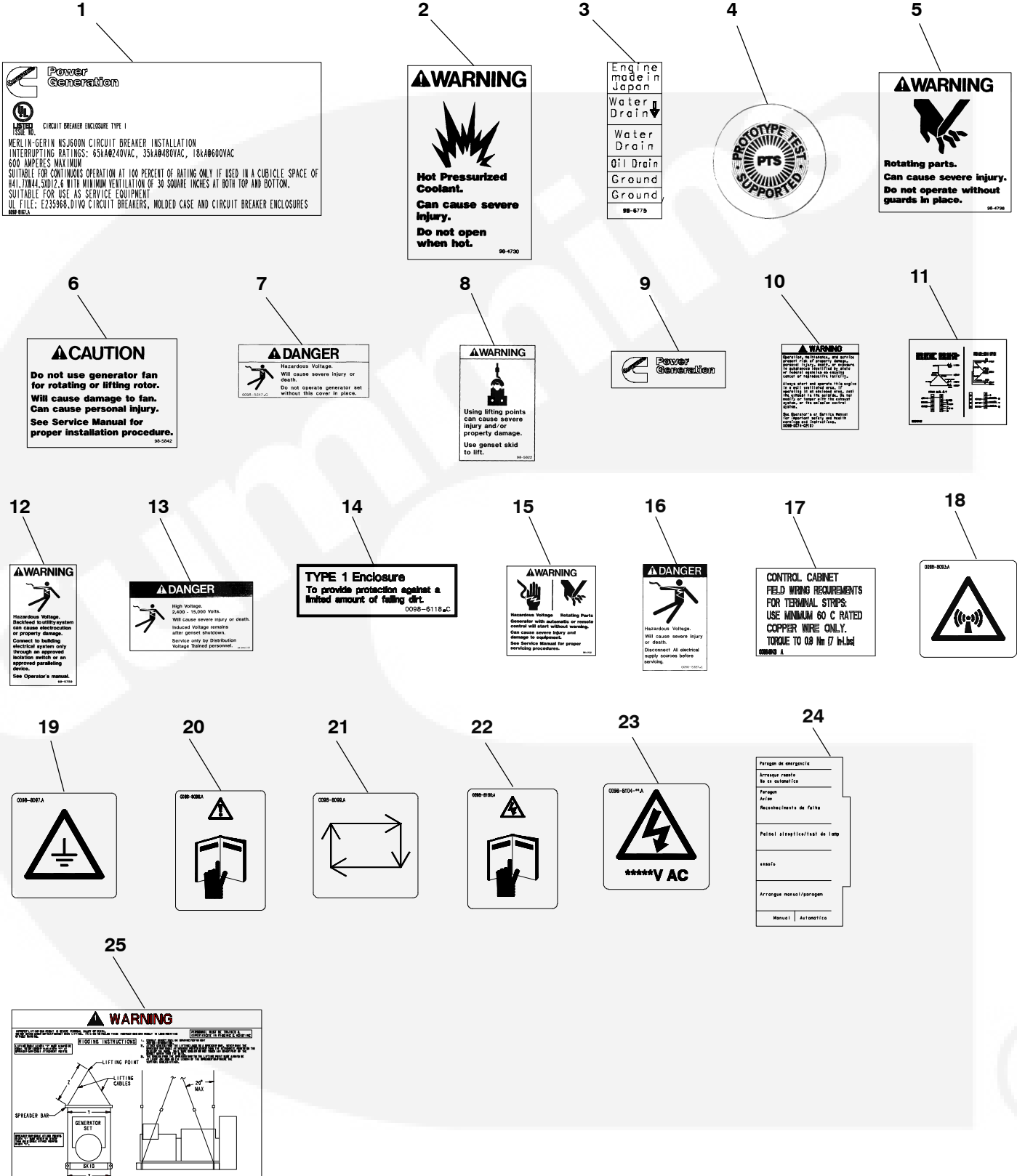


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1045	1	Switch, Key Operator	2	308-1046	2	Key

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Labels



Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Label, Information	23			Label, Warning
	098-8174	A/R	R-Frame – 1600 Amp (Alternate Source for Emergency Service)		098-8104-20	1	240V
					098-8104-21	1	110V
	098-8175	A/R	R-Frame – 2000 Amp (Alternate Source for Emergency Service)		098-8104-01	1	380V
					098-8104-02	1	480V
	098-8176	A/R	R-Frame – 2500 Amp (Alternate Source for Emergency Service)		098-8104-03	1	415V
					098-8104-04	1	440V
					098-8104-05	1	480V
					098-8104-06	1	600V
					098-8104-07	1	3300V
2	098-4730	A/R	Label, Warning		098-8104-08	1	4160V
3	098-6775	A/R	Label, Water Drain and Oil Drain		098-8104-09	1	6000V
					098-8104-10	1	6300V
4	098-4500	A/R	Label – Prototype Tested		098-8104-11	1	6600V
5	098-4798	A/R	Label, Warning		098-8104-12	1	7200V
6	098-5842	A/R	Label, Caution		098-8104-13	1	10000V
7	098-5347	A/R	Label, Danger		098-8104-14	1	10500V
8	098-5822	A/R	Label, Warning		098-8104-15	1	11000V
9	098-7902-03	A/R	Label, Logo		098-8104-16	1	11400V
10	098-6074-02	A/R	Label, Warning		098-8104-17	1	12470V
11	098-8160	A/R	Label, Information		098-8104-18	1	13200V
12	098-5759	A/R	Label, Warning		098-8104-19	1	13800V
13	098-6650-01	A/R	Label, Danger	24			Label, Insert
14	098-6118	A/R	Label, Cabinet		098-7883-01	1	Portuguese
15	098-4732	A/R	Label, Warning		098-7883-02	1	French
16	098-5387	A/R	Label, Danger		098-7883-03	1	Spanish
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