



# Parts Manual

## Generator Set

with PowerCommand<sup>®</sup> 3201 and PC3.3 Controller

DQKAA (Spec A–E)

DQKAB (Spec A–E)

DQKAC (Spec A–E)



## MODEL IDENTIFICATION

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

PSP-1

## Introduction

This manual applies to Cummins Generator Model DQKAA, DQKAB, and DQKAC 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 are identified in this manual. 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.

<b>Cummins Generator Model</b>	<b>Cummins Engine Model</b>
DQKAA	QSK60-G6
DQKAB	QSK60-G6
DQKAC	QSK60-G7

## Generator Set Data Table

<b>Model and Specification</b>	<b>Electrical Data</b>					<b>Battery Voltage</b>
	<b>Watts</b>	<b>Volts</b>	<b>Hertz</b>	<b>Wire</b>	<b>Phase</b>	
1750DQKAA/*	1,750,000	#	60	4L, 6L	3	24VDC
2000DQKAB/*	2,000,000	#	60	4L, 6L	3	24VDC
2250DQKAC/*	2,250,000	#	60	4L, 6L	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.

# – 380-13,800V (Refer to Genset Data Sheet).

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## Abbreviations

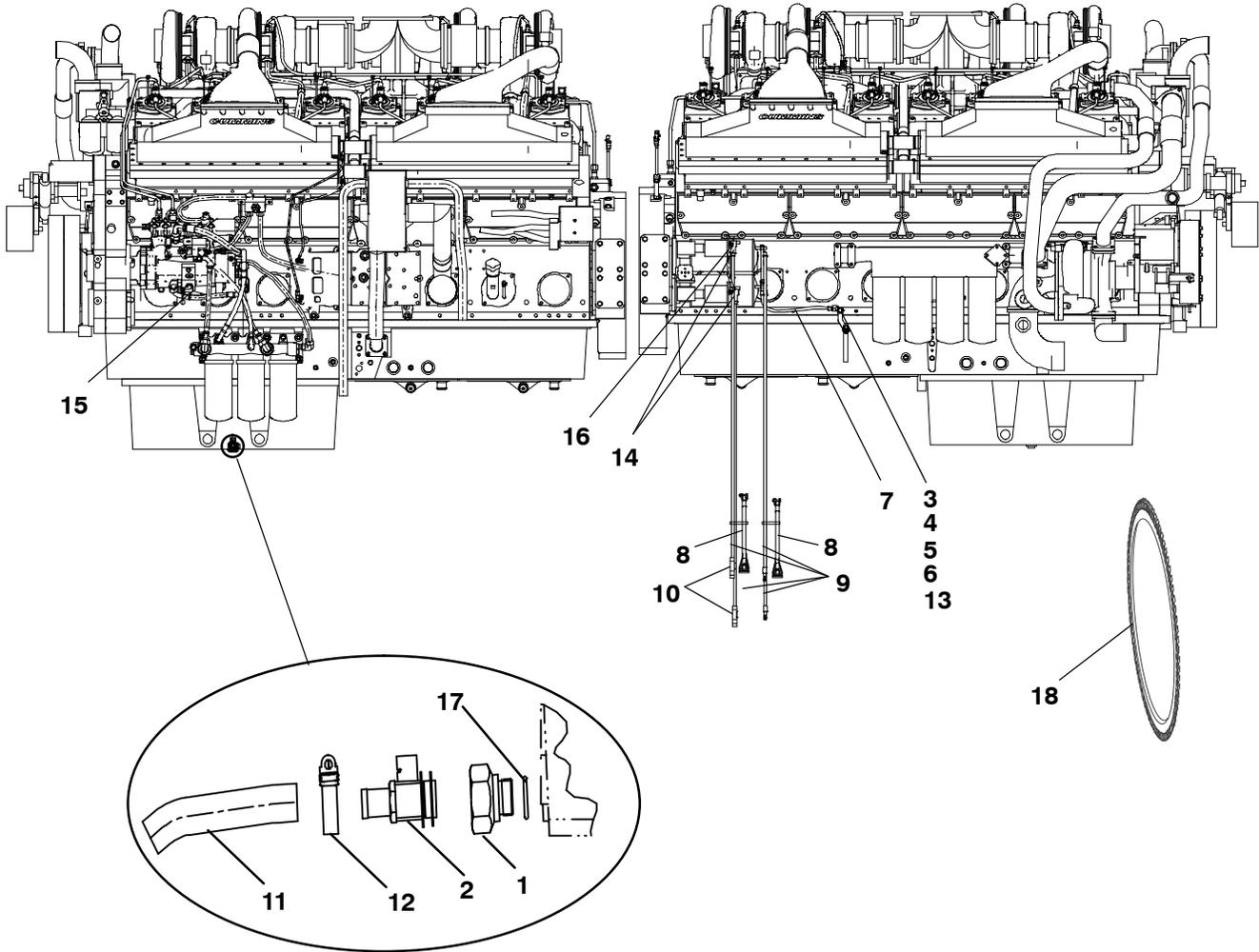
Some of the following abbreviations may be used throughout this Parts Manual:

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
EPRM	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

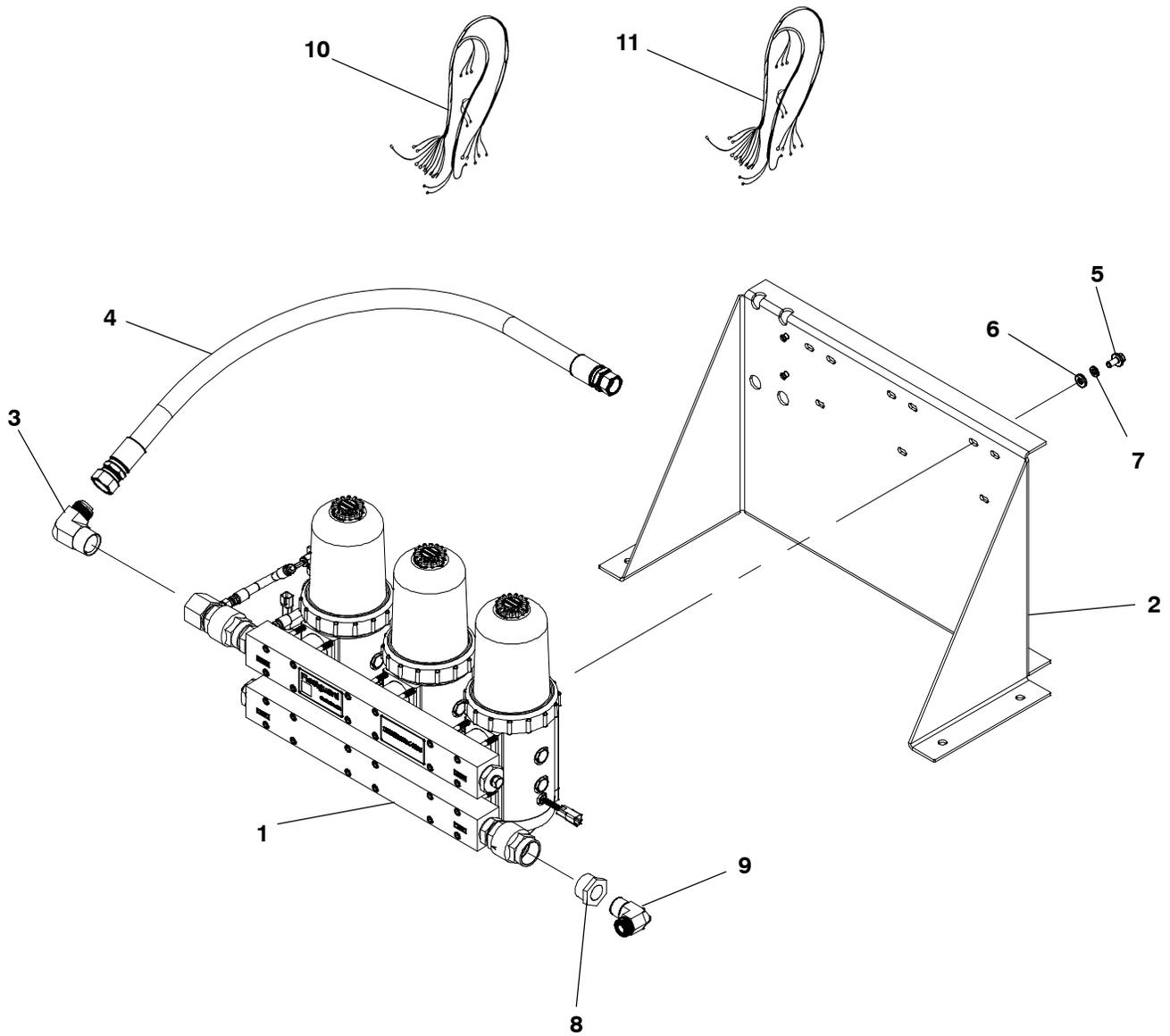
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				
	518-0601	-	Sealant, Thread (6 ml Tube)				

## External Engine Parts



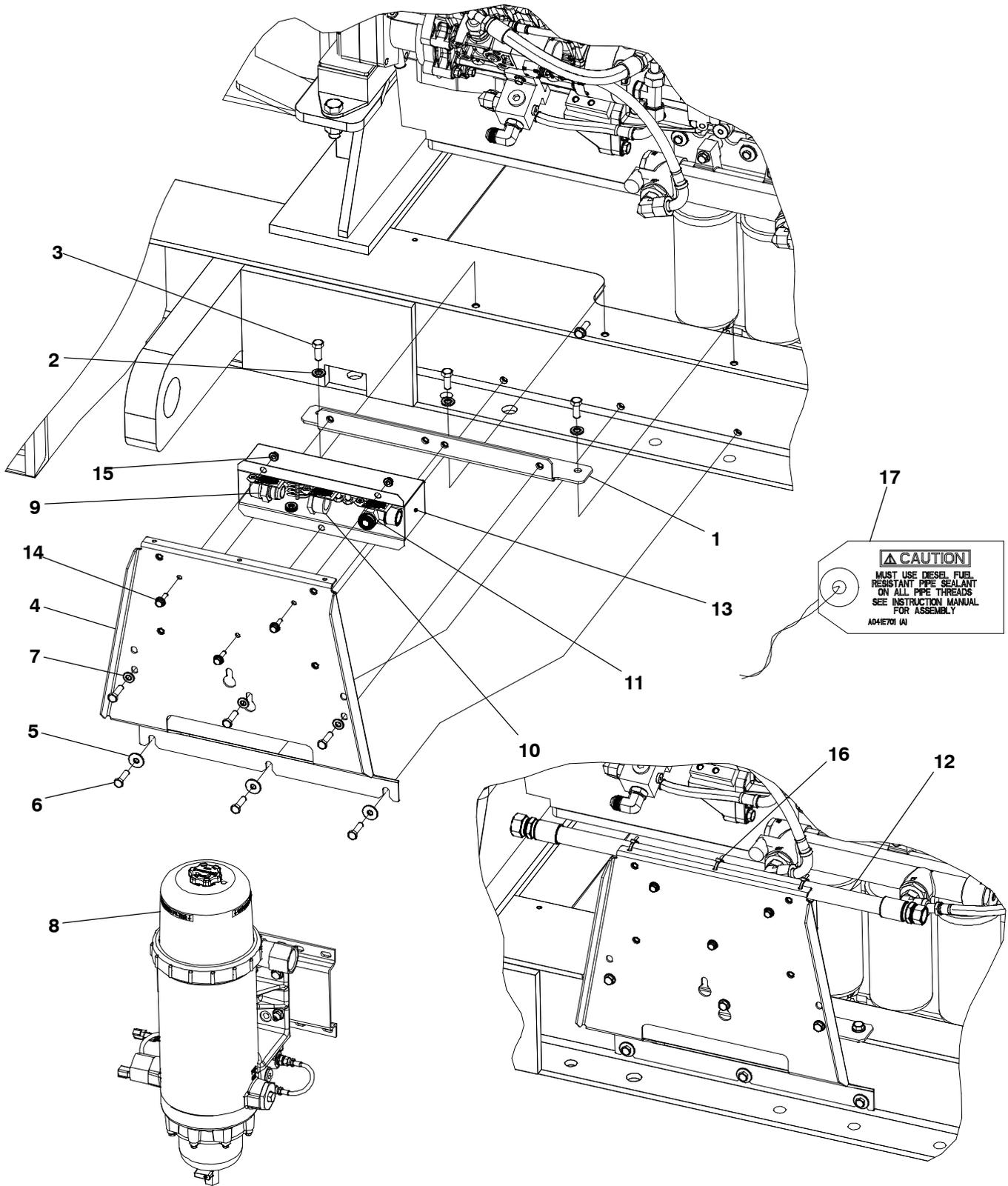
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1479	1	Adapter (M27 to 3/4)	12	503-0398	1	Clamp, Hose
2	504-0251	1	Valve, Ball	13	337-0090-01	1	Strap, Electrical
3	856-0013	2	Washer, Lock - W/EIT (1/2)	14	416-1084-01	2	Boot, Starter - Red
4	526-2140	2	Washer, Flat (M12)	15	502-1589	1	Elbow, Tube
5	850-2012	2	Washer, Lock - Spring (M12)	16	416-0632	1	Cable, Starter
6	800-2111	2	Screw, Cap - Hex Head (M12 x 1.75 x 25)	17	509-0353	1	Seal, O Ring
7	416-0680	2	Cable, Battery - Starters	18			Belt, Fan
8	416-1096	2	Cable, Jumper		0511-0161-25	1	Used on 40° Bearward Radiator Only
9	416-0639	4	Cable, Battery		0511-0161-27	1	Used on IEA 50° Radiator Only
10	416-1019	2	Boot, Battery - Red				
11	503-2386	-	Hose - Bulk (Order by the Foot - 3 Feet Rquired)				

## Fuel Filter (Old Filter Setup was Discontinued Late in 2017)



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	496418300	1	Harness, Accessory - Fuel Filter
5	800-0050	11	Screw, Cap - Hex Head (3/8-16 x 1)	11	496416300	2	Harness, Extension - Fuel Filter
6	526-0030	11	Washer, Flat (3/8)				

# Fuel Filter – Single (New Filter Setup Introduced Late in 2017)

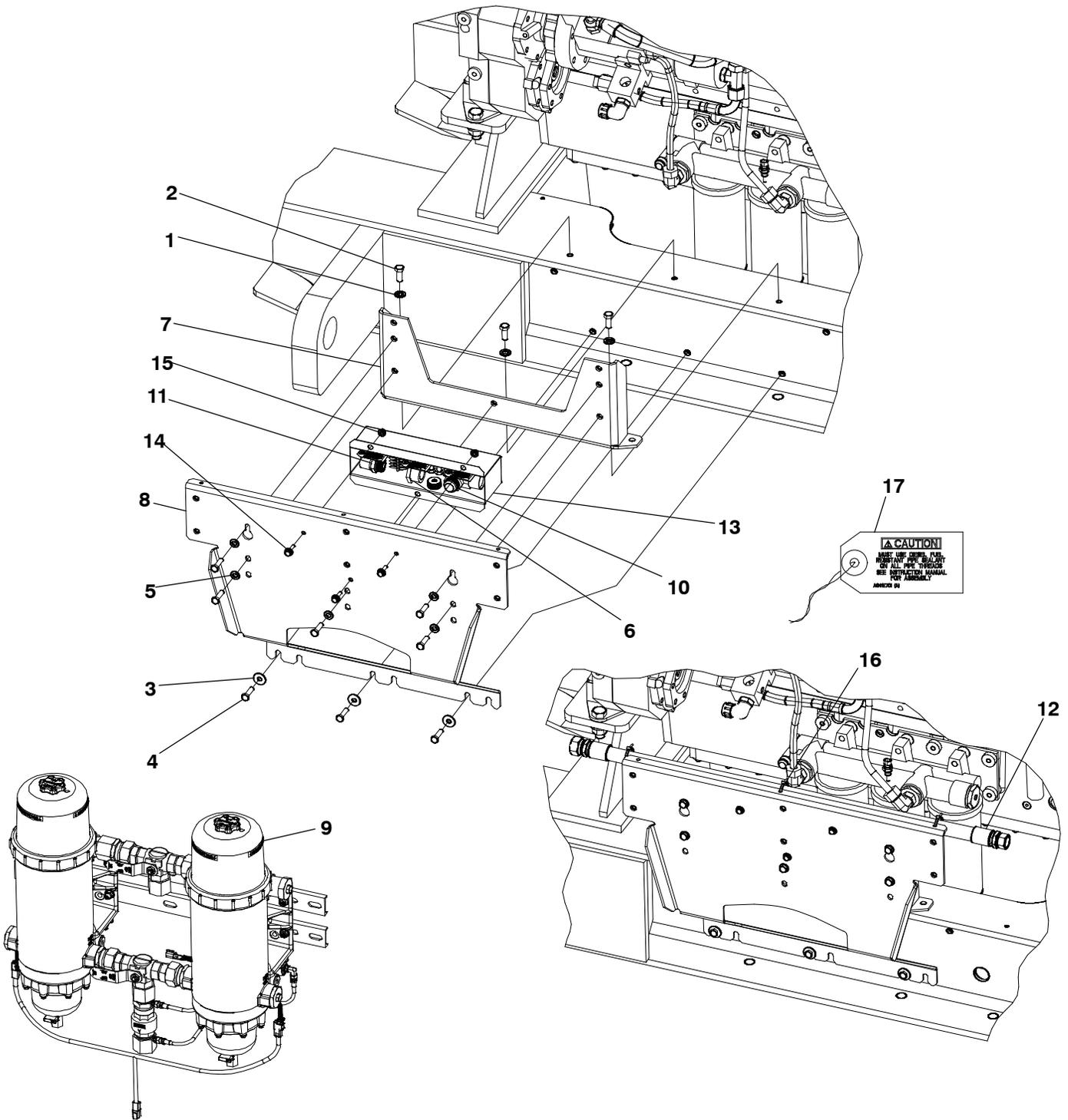


**CAUTION**  
MUST USE DIESEL FUEL  
RESISTANT PIPE SEALANT  
ON ALL PIPE THREADS  
SEE INSTRUCTION MANUAL  
FOR ASSEMBLY  
AD41E701 (A)

**Fuel Filter – Single**  
**(New Filter Setup Introduced Late in 2017)**

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY USED</b>	<b>PART DESCRIPTION</b>	<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY USED</b>	<b>PART DESCRIPTION</b>
1	A055Y817	1	Bracket, Fuel Filter	10	0505-0023	1	Bushing, Reducer
2	0526-0399-64	3	Washer, Flat	11	0502-1592	1	Fitting, Tube Elbow
3	0800-3017-54	3	Screw, Hex Head	12	0501-0970-02	1	Line, Fuel
4	A055Y819	1	Bracket, Fuel Filter	13	0488-0360-02	1	Box, Stock
5	0526-0399-63	3	Washer, Flat	14	0821-6003-03	3	Screw, Hex Head
6	0800-3017-39	10	Screw, Hex Head	15	0870-2159	3	Nut, Hex Flange
7	0526-0399-62	7	Washer, Flat	16	0332-1389	9	Tie, Cable
8	A055Y796	1	Filter, Fuel	17	A041E701	3	Tag, Fuel
9	A056G613	1	Fitting, Pipe Adapter				

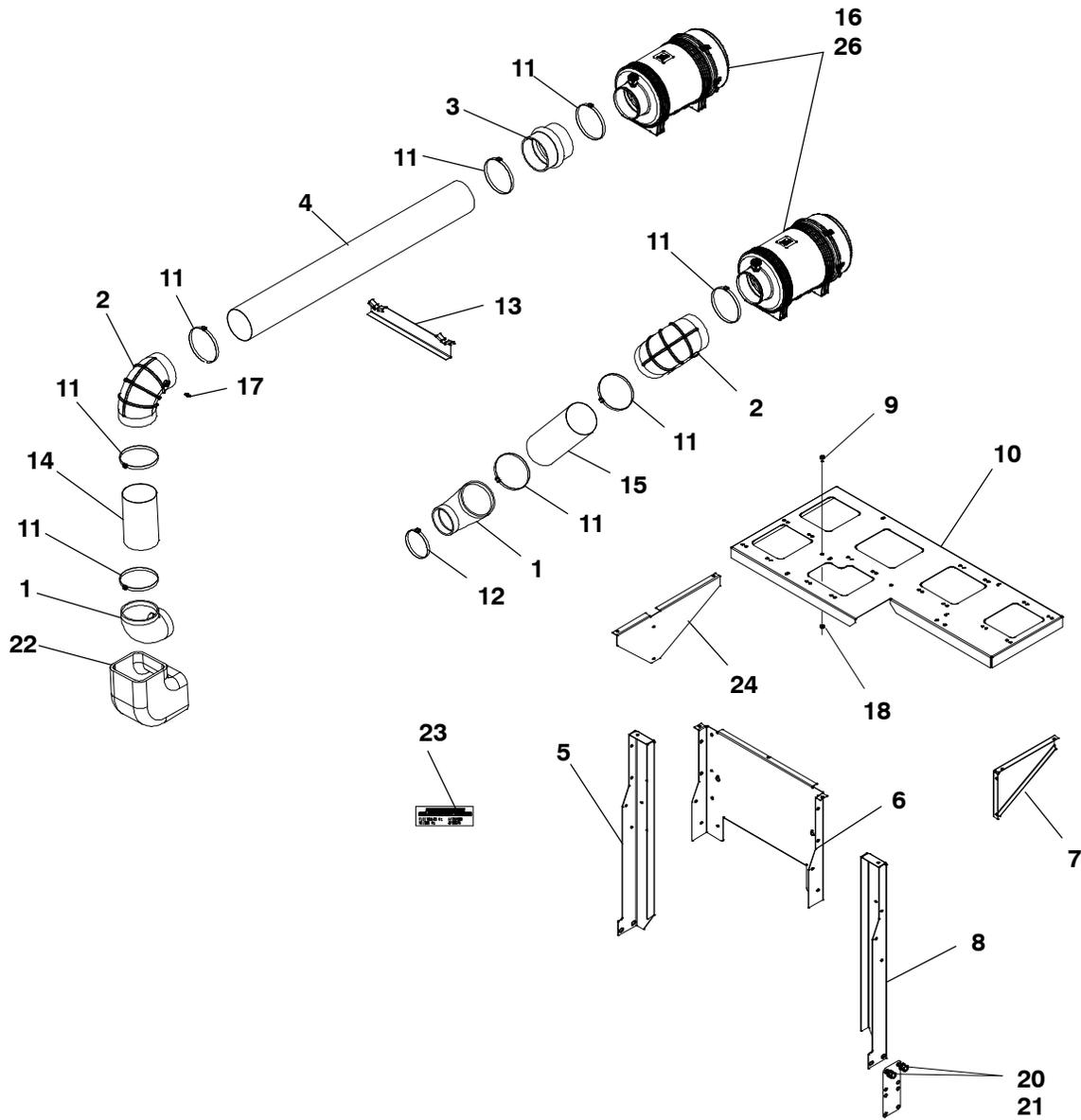
# Fuel Filter - Duplex (New Filter Setup Introduced Late in 2017)



**Fuel Filter – Duplex  
(New Filter Setup Introduced Late in 2017)**

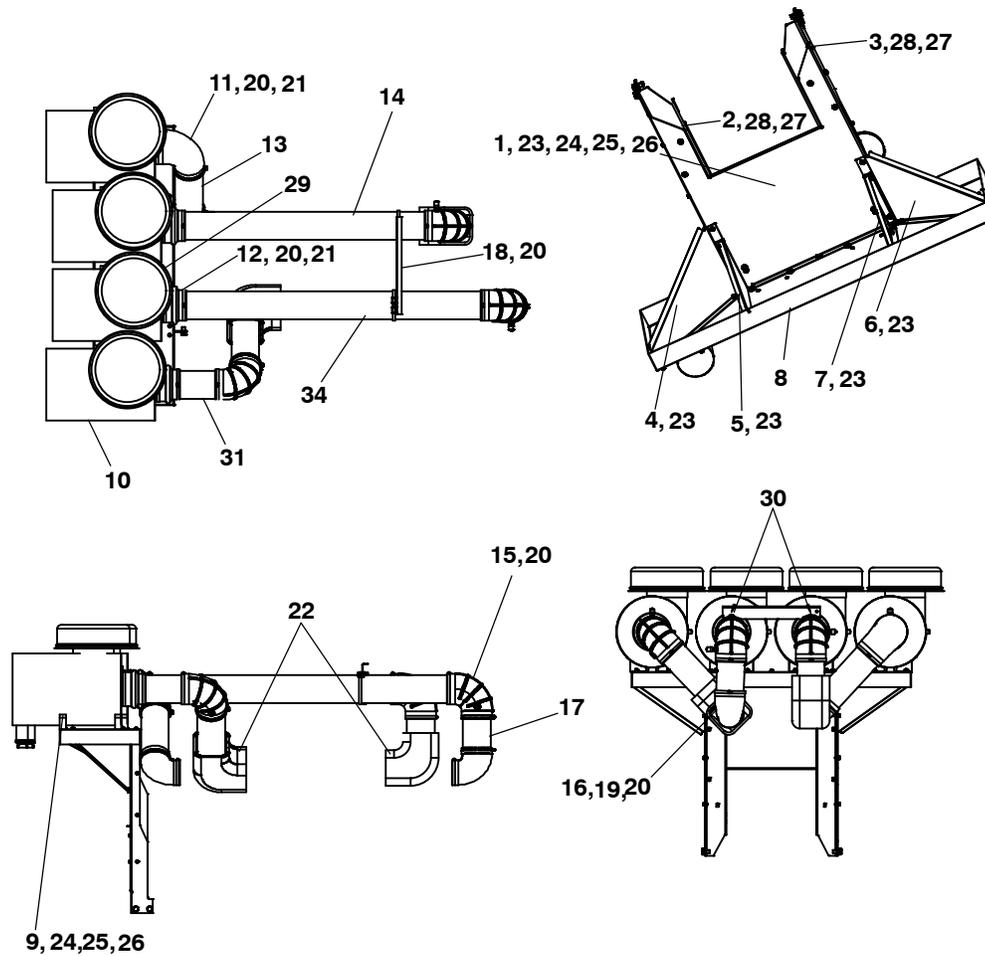
<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY USED</b>	<b>PART DESCRIPTION</b>	<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY USED</b>	<b>PART DESCRIPTION</b>
1	0526-0399-64	3	Washer, Flat	10	0502-1588	1	Fitting, Tube Elbow
2	0800-3017-54	3	Screw, Hex Head	11	A056M852	1	Fitting, Pipe Adapter
3	0526-0399-63	9	Washer, Flat	12	A056M839	1	Line, Fuel
4	0800-3017-39	14	Screw, Hex Head	13	0488-0360-02	1	Box, Stock
5	0526-0399-62	5	Washer, Flat	14	0821-6003-03	3	Screw, Hex Head
6	0505-0023	1	Bushing, Reducer	15	0870-2159	3	Nut, Hex Flange
7	A056M330	1	Bracket, Fuel Filter	16	0332-1389	9	Tie, Cable
8	A056M334	1	Bracket, Fuel Filter	17	A041E701	3	Tag, Fuel
9	A055Y798	1	Filter, Fuel				

# Air Cleaner



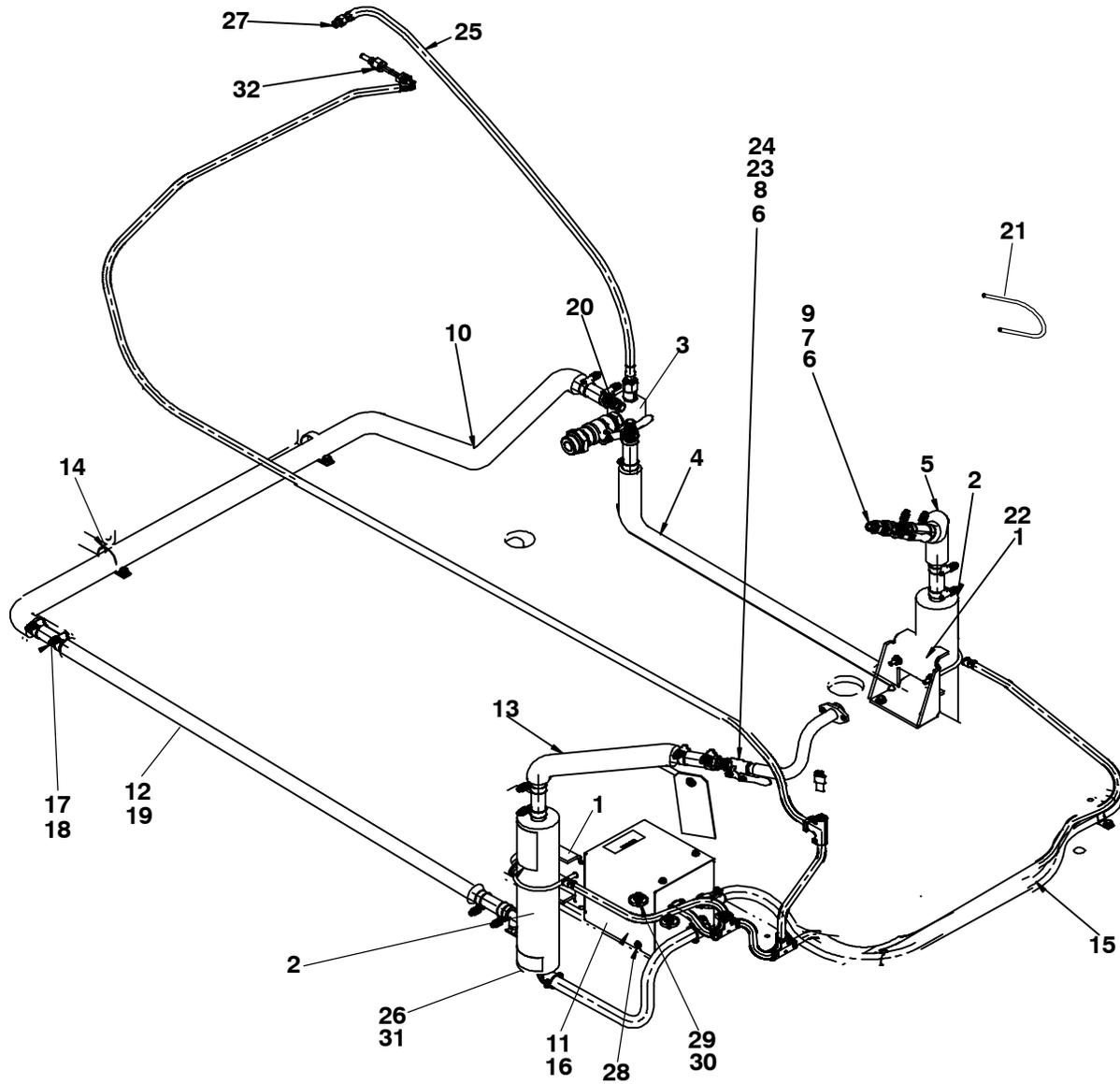
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2102	4	Elbow, Reducer - 90°	15	140-3515-02	2	Tube, Air Cleaner
2	503-0970-01	4	Elbow	16	140-3288-02	4	Housing, Air Cleaner - Flame Retardant
3	503-1705	2	Hose (7")	17	140-1260	4	Fitting, Safety Filter
4	104-3518-02	2	Tube, Air Cleaner	18	870-2065-03	3	Nut, Hex - Flange
5	104-3504-02	1	Bracket, Air Cleaner - Vertical Right	19	517-0080	4	Plug, Tapered (Not Illustrated)
6	104-3506-02	1	Bracket, Air Cleaner - Plate	20	800-2201	4	Screw, Cap - Hex Head (M20 x 2.5 x 35)
7	104-3507-02	1	Bracket, Air Cleaner - Angle	21	850-2020	4	Washer, Lock (M20)
8	104-3505-02	1	Bracket, Air Cleaner - Vertical Left	22	155-4101	2	Shield, Heat
9	821-6003-02	41	Screw, Hex Head (M8 x 1.25 x 20)	23	098-7954	1	Label, Information
10	140-3508-02	1	Bracket, Air Cleaner - Top	24	140-3546-02	1	Bracket, Air Cleaner - Angled
11	503-1870-14	18	Clamp, Hose	25	503-1870-13	2	Clamp (Not illustrated, fitment with 140-3517-02)
12	503-1870-11	4	Clamp, Hose	26	A029Y303	4	Element, Replacement (Not Illustrated) (Fleetguard Part Number)
13	140-3517-02	1	Bracket, Air Cleaner				
14	140-3516-02	2	Tube, Air Cleaner				

## Heavy Duty Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3640-02	1	Bracket, Air Filter	18	140-3565-02	1	Bracket, Tube
2	140-3641-02	1	Bracket, Air Filter	19	503-1870-11	4	Clamp, Hose
3	140-3642-02	1	Bracket, Air Filter	20	503-1870-14	15	Clamp, Hose
4	140-3948-02	1	Bracket, Air Filter	21	503-1870-16	4	Clamp, Hose
5	140-3947-02	1	Bracket, Air Filter	22	155-4101	2	Shield, Heat
6	140-3582-02	1	Bracket, Air Filter	23	821-6003-02	31	Screw, Hex Head
7	140-3507-02	1	Bracket, Air Filter	24	526-2120	1	Washer, Flat
8	140-3644-02	1	Bracket, Air Filter	25	800-2086	16	Screw, Hex Head
9	140-2099	8	Band, Mounting	26	870-2203	16	Nut, Hex Flange
10	140-3230	4	Filter, Air	27	850-2020	4	Washer, Lock
11	503-1485	1	Elbow, 90	28	800-2201	4	Screw, Hex Head
12	503-1721	3	Hose, Hump	29	140-2098	4	Hood, Air Inlet
13	A026H421	2	Tube, Air Filter	30	517-0080	2	Plug, Plastic
14	140-3913-17	1	Filter, Air	31	A026H422	1	Tube, Air Filter
15	503-0970-01	3	Elbow	32	140-1260	2	Fitting, Filter
16	503-2012	4	Elbow, Reducer	33	140-1548	2	Indicator, Service
17	140-3913-16	2	Filter, Air	34	140-3913-11	1	Tube, Air

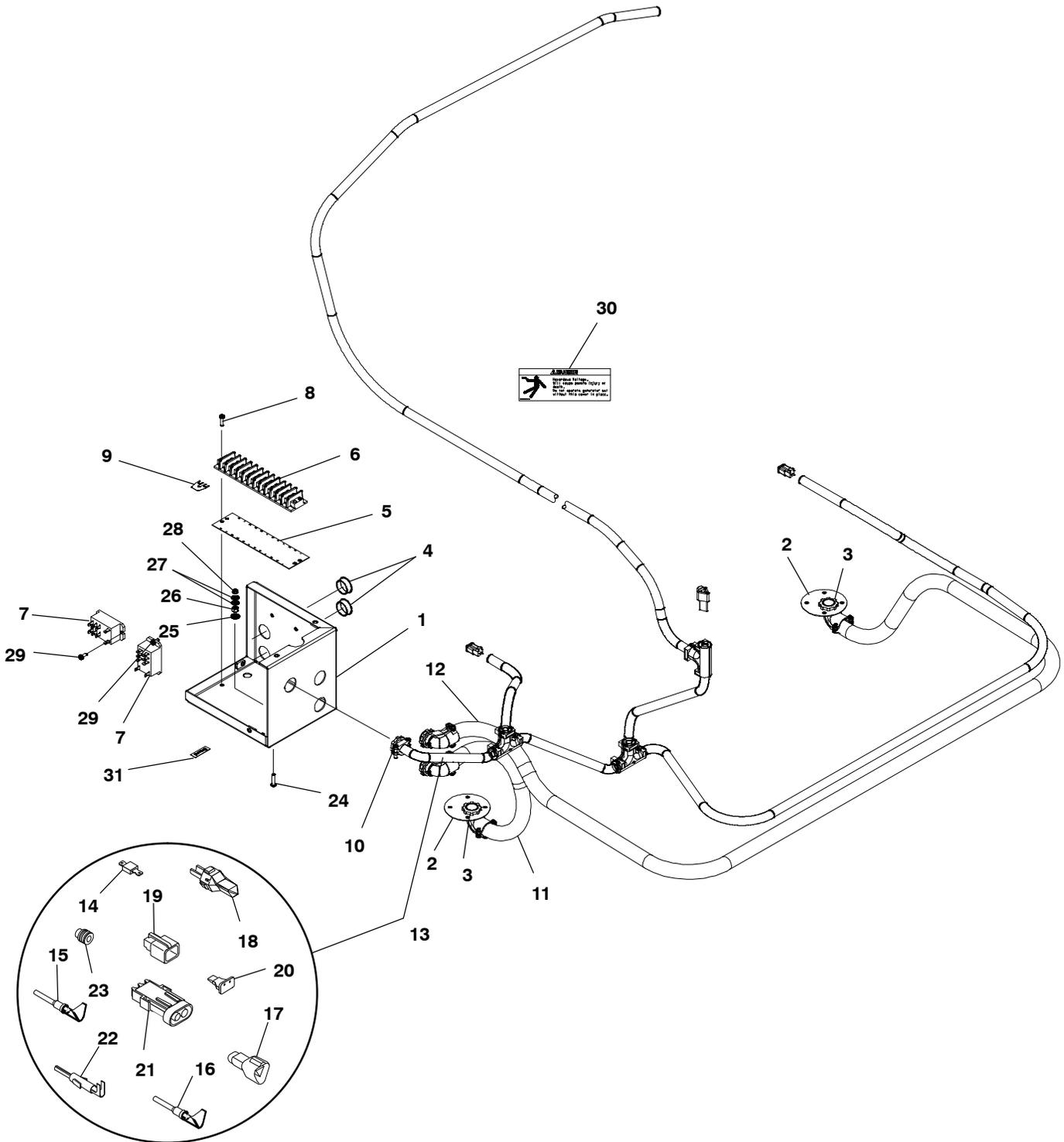
# Engine Coolant Heater



## Engine Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bracket, Water Heater	17	503-3062-01	9	Hose, Silicone – Rubber
	130-4546	2	Non-IBC Seismic	18	503-2157-02	18	Clamp, Hose
	A030A089	2	IBC Seismic	19	128-0108	16	Insulation, Hose
2			Heater, Water	20	509-0378	1	Seal, O-Ring (M42)
	333-0677-01	2	4990 Watts	21	155-3021	2	Clamp, Water Heater
	333-0677-02	2	6420 Watts	22	870-0550-09	4	Nut, Hex Flange (3/8-16)
3	154-3161	1	Manifold, Heater	23	130-5089-04	1	Tube Assembly, Heater
4	130-6491	1	Tube, Heater	24	509-0283-01	1	Seal, Rect. Ring
5	130-6493	1	Tube, Heater	25	501-0744-05	1	Hose Assembly, Coolant
6	502-1704	2	Hose, Connector	26	870-0131	6	Nut, Hex – W/ET (#8-32)
7	505-2112	1	Adapter, Pipe (M42 x 1 NPT)	27	502-1318	1	Adapter, Pipe (M14 x 1/4)
8	504-0213	2	Valve, Ball	28	821-5002-03	4	Screw, Hex Head SEMS (1/4-20 x 5/8")
9	509-0379	1	Seal, O-Ring	29	526-0128	2	Washer, Flat
10	130-6490	1	Tube, Water Heater	30	821-6003-02	11	Screw, Hex Head SEMS (M8 x 1-1/4 x 20)
11	319-6838	1	Cover, Control	31	815-0539	6	Screw, Cross Recessed (#8-32 x 5/8")
12	130-6489	1	Tube, Water Heater	32	A030X518	1	Switch, Temperature
13	130-6492	1	Tube, Water Heater				
14	518-0548-24	2	Clamp, Hose				
15	332-2634	3	Clamp, "J"				
16		1	Control Assembly, Heater (See Separate Page for Components)				

# Coolant Heater Control

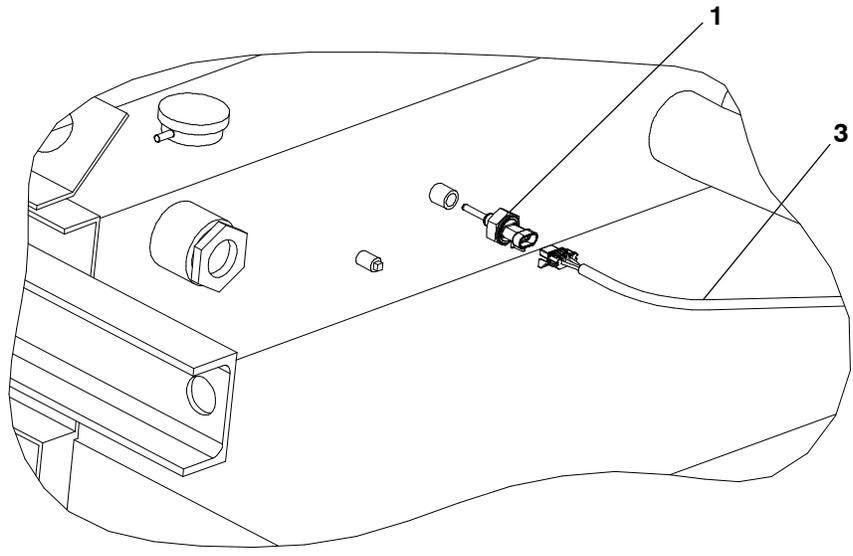
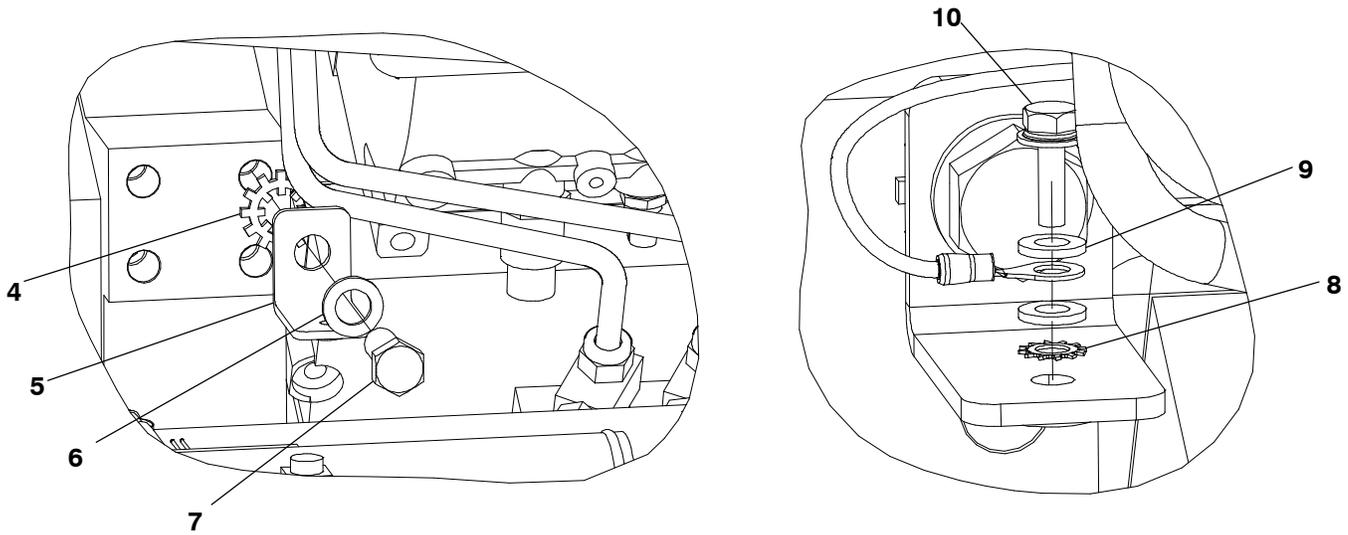


## Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4787-02	1	Box, Terminal	18	323-1502	1	* Wedge, Receptacle
2	130-4552	2	Cover, Coolant Heater	19	323-1504	2	* Connector, Plug (2 Pin)
3	331-0555	5	Nut, Connector Lock (3/4-14)	20	323-1500	2	* Wedge, Plug
4	517-0138-02	2	Plug, Hole (Fits 1-1/8" Hole)	21	323-1652	1	* Connector, Plug - 2-Way (2 Pin)
5	332-1469	1	Strip, Marker	22	323-1718	2	* Pin, Contact
6	332-1468	1	Block, Terminal - 12 Place (TB1)	23	323-1445	2	* Seal, Cable
7	307-3089	2	Relay, Power	24	815-0203	1	Screw, Machine - Round Head W/ET (#10-32 x 7/8")
8	815-0447	2	Screw, Machine - Round Head - Cross Recessed W/IT - (#8-32 x 3/4")	25	856-0003	1	Washer, ET Lock (#10)
9	332-3440	2	Jumper, Terminal	26	871-0010	1	Nut, Hex Brass (#10-32)
10	331-0042	1	Connector, Wiring - DC - Romex (3/4")	27	526-0049	2	Washer, Flat Brass (#10)
11	338-4995-03	1	Harness, Wiring - Eng.	28	870-0131	1	Nut, Hex w/ ET (#10-32)
12	338-4995-05	1	Harness, Wiring - Eng.	29	815-0446	4	Screw, Round Head - Cross Recessed - Thread Cutting - W/IT (#8-32 x .50)
13	338-4986	1	Harness, Wiring - (Includes Parts Marked *)	30	098-7244	1	Label, Danger
14	357-0030	1	* Rectifier (6 Amp)	31	098-2235-02	1	Label, Ground
15	323-1491	3	* Pin, Contact				
16	323-1492	4	* Socket, Contact				
17	323-1494	1	* Connector, Receptacle (3 Pin)				

\* - Parts Included In 338-4986 Wiring Harness

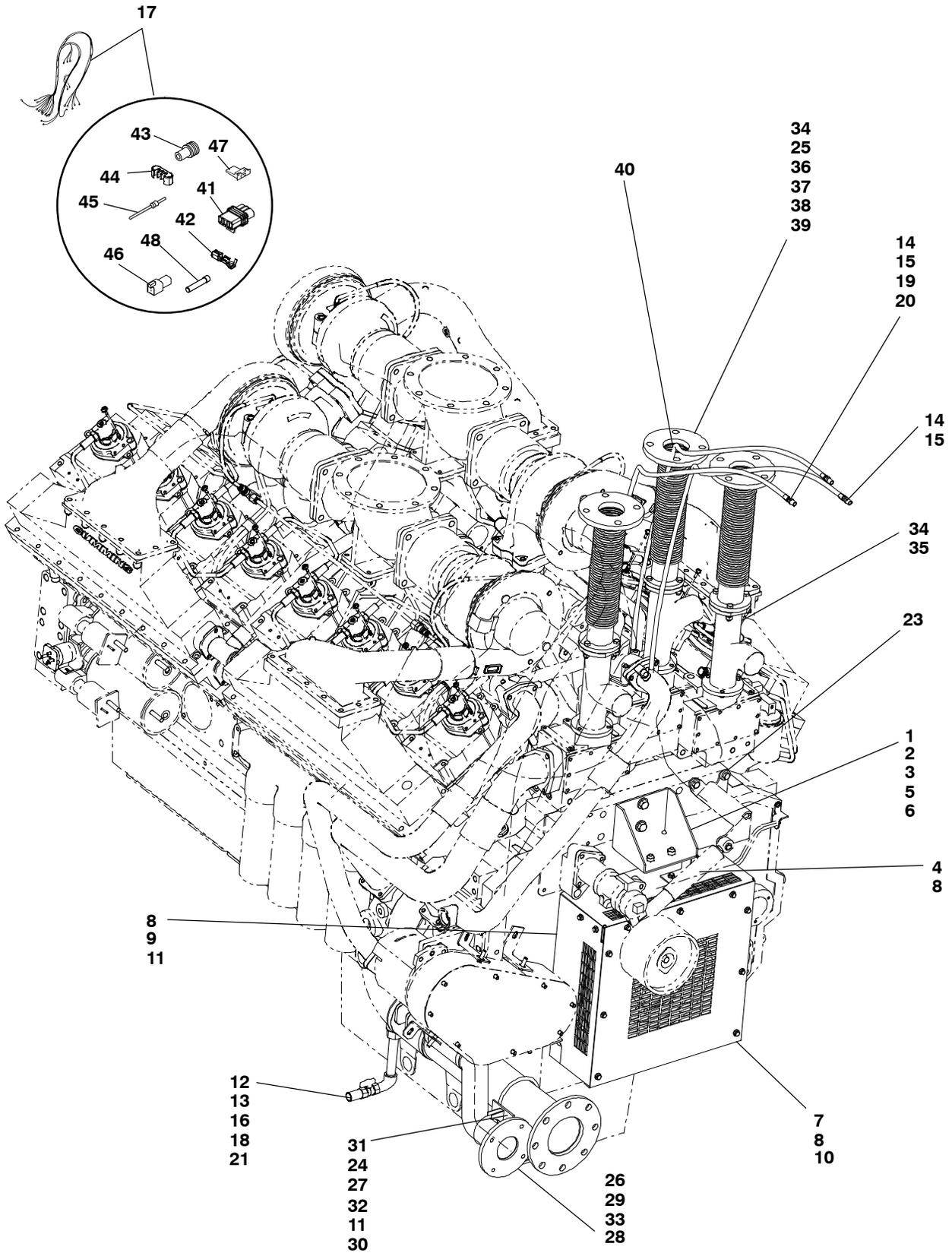
## Low Coolant Level Sensor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A055E534	1	Switch, Level	6	0526-2183	1	Washer, Flat
2	0332-1389	6	Tie, Cable (Not Shown)	7	0800-3017-73	1	Screw, Hex Head
3	A055E381	1	Harness, Low Coolant Level	8	0853-2006	1	Washer, Lock
4	0856-0016	1	Washer, Lock	9	0526-2080	2	Washer, Flat
5	A043M217	1	Bracket, Angle	10	0821-6002-03	1	Screw, Hex Head

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# Remote Radiator

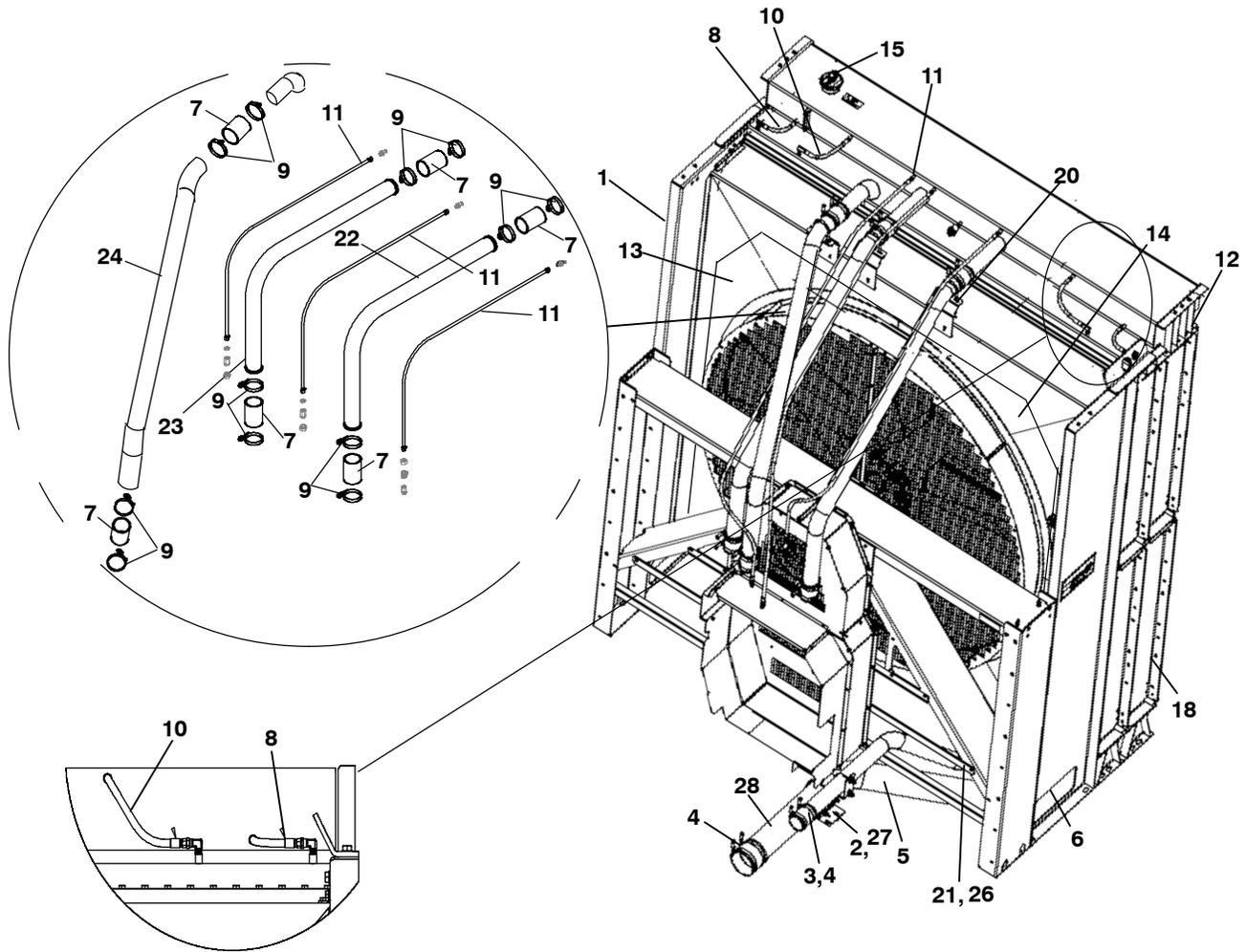


## Remote Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5458-02	1	Bracket, Support	27	503-1726	1	Hose, Radiator (5.00 x 6.00) – With Flanges
2	526-0399-75	2	Washer, Flat (M16)	28	503-1728	1	Hose, Radiator (3.00 x 5.50) – With Flanges
3	800-6284-01	2	Screw, Cap – Hex Head (M16 x 2 x 180)	29	503-1872-05	2	Clamp, Hose – With Flanges
4	130-5281-02	1	Bracket, Guard	30	503-1872-09	2	Clamp, Hose – With Flanges
5	526-0399-64	2	Washer, Flat (M12)	31	130-8092-02	1	Bracket, Tube – With Flanges
6	800-3017-54	2	Screw, Cap – Hex Head (M12 x 1.75 x 30)	32	155-3290	1	Clamp, Muffler (5 in. Dia.) – With Flanges
7	130-6518-02	1	Cover, Guard – Left	33	155-3289	1	Clamp, Muffler (3 in. Dia.) – With Flanges
8	821-6003-01	18	Screw, Hex Head (M8 x 1.25 x 16)	34	130-3684	6	Gasket, Connection – With Flanges
9	130-6519-02	1	Cover, Guard	35	130-5084-02	3	Tube, Water Outlet – With Flanges
10	130-6520-02	1	Cover, Guard	36	800-3017-41	9	Screw, Cap – Hex Head (M10 x 1.5 x 45) – With Flanges
11			Screw, Hex Head (M8 x 1.25 x 25)	37	526-0399-62	9	Washer, Flat (M10) – With Flanges
	821-6003-03	3	Without Flanges	38	850-0114-55	9	Washer, Lock – Split (M10) – With Flanges
	821-6003-03	5	With Flanges	39	862-0026-56	9	Nut, Hex (M10 x 1.5) – With Flanges
12	502-1326	1	Adapter, Pipe (M33 x 3/4)	40	503-2129-05	1	Line, Radiator Vent
13	505-0754	1	Nipple, Pipe (3/4 x 6.00)	41	323-2432	1	* Connector, Plug
14	503-2129-04	2	Line, Radiator Vent	42	323-2433	2	* Contact, Socket
15	502-1318	2	Adapter, Pipe (M14 x 1/4)	43	323-2430	2	* Seal, Connector
16	505-0051	1	Elbow, Street – 90° (3/4)	44	323-2431	1	* Connector, Receptacle
17	338-4858	1	Harness, Wiring – Low Coolant Level (Includes Parts Marked *)	45	323-2275	2	* Contact, Pin
18	504-0171	1	Valve	46	323-1549	1	* Connector, Receptacle
19	309-0635-02	1	Valve, Check	47	323-1547	1	* Wedge, Receptacle
20	505-0153	1	Coupling, Reducer (3/8 x 1/4)	48	323-1591	1	* Plug, Seal
21	505-0324	1	Nipple, Half (3/8)				
22	370-4081	8	Spacer – CT (Not Shown)				
23	526-0393	3	Washer, Flat (M10)				
24	130-4517	1	Tube, Water Inlet – With Flanges				
25	A026E452	3	Tube, Water Outlet – With Flanges				
26	130-7097-02	1	Tube, Water Inlet – With Flanges				

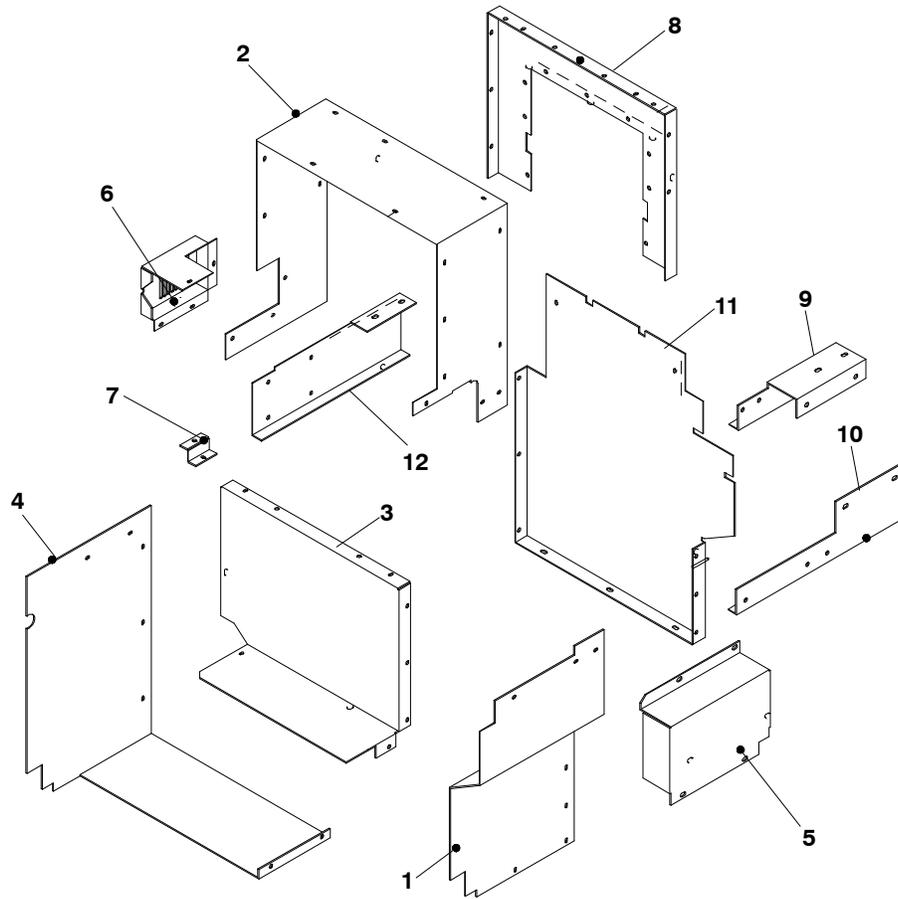
\* – Parts Included In 338-4858 Wiring Harness

## Radiator DQKAB – Enhanced High Ambient



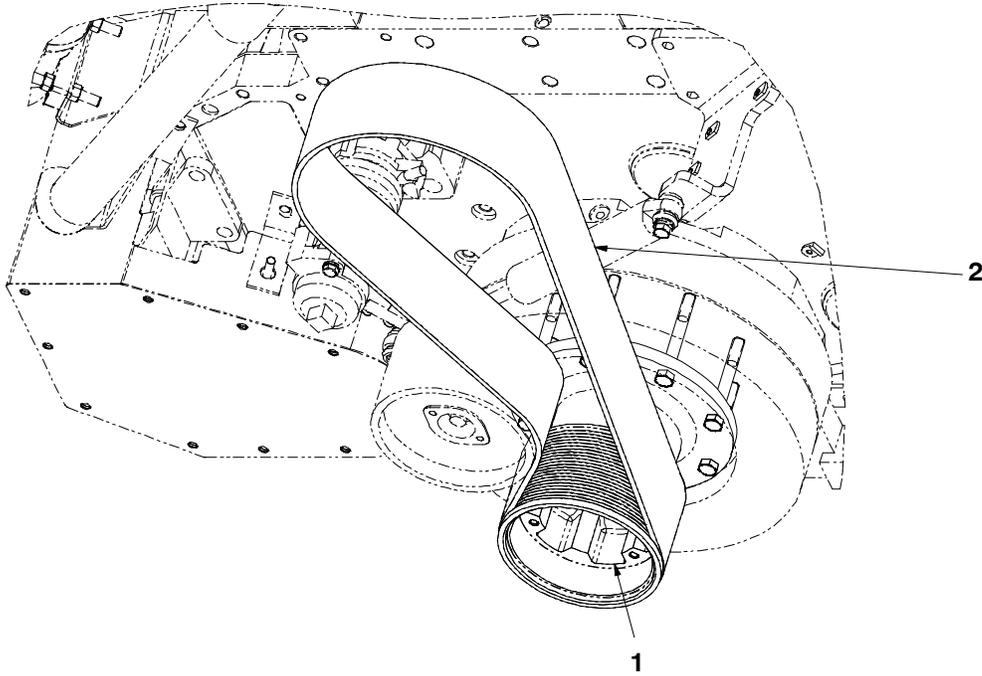
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A063U079	1	Kit, Accessories (Includes Indented Parts Below)	11	A029Y817	3	Vent, Line
	A053P534	1	Belt, Fan	12	130-5714	1	Duct, Transition R/H
	0130-5356	2	Hose	13	A030S325	2	Guard, Fan
	0503-2658	9	Hose, Radiator	14	A030S327	2	Guard, Fan
	0503-1872-01	3	Clamp, Hose	15	130-7407	2	Cap, Radiator
	0503-2641	18	Clamp, Hose	16	A029B928	1	Belt (Not Shown)
	A029Y804	2	Hose, Vent	17	130-5554	1	Fan (Not Shown)
	A029Y814	2	Hose, Vent	18	130-5420	37	Screw, with Washer (M8 x 25)
	A029Y817	3	Hose, Vent	19	A030S420	1	Pipe (I.D. 127)
1	A030D337	1	Radiator	20	503-2693	3	Clamp, U-Bolt
2	A030S345	1	Bracket, Pipe	21	130-5354	1	Hose, J/W 4"
3	130-5356	2	Pipe (I.D. 127)	22	130-6743	1	Tube, Radiator J/W R/H
4	503-1872-01	3	Clamp, Hose	23	130-6742	1	Tube, Radiator J/W L/H
5	A030S350	1	Pipe (Bottom)	24	130-8238	1	Hose, J/W
6	503-2661	2	Clamp, Hose	25	A030S346	51	Screw, with Washer (M6 x 20)
7	503-2658	9	Pipe (I.D. 76.2)	26	503-1872-05	2	Clip, 95-117
8	A029Y804	2	Vent, Line	27	SP64430	1	Clamp, U-Bolt 4"
9	503-2641	18	Clamp, Hose	28	A030S415	1	Pipe (I.D. 127)
10	A029Y814	2	Vent, Line	29	A029X986	1	Sight Gauge (Mounted to Top Tank)

## Guard-Kit



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030S330	1	Guard (Bottom RH)	7	A030S343	1	Guard (Infill Angle)
2	A030S331	1	Guard (Top)	8	130-5841	1	Guard Belt (Rear)
3	A030S337	1	Guard (Front)	9	130-6758	1	Bracket, Radiator
4	A030S338	1	Guard (Bottom)	10	130-5886	1	Bracket, Radiator
5	A030S339	1	Guard (Infill RH)	11	130-5888	1	Bracket, Radiator
6	A030S342	1	Guard (Extension)	12	130-5846	1	Bracket, Fan Guard

# Fan-Drive



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	512-0309	1	Pulley
2	A029B928	1	Belt-V Ribbed

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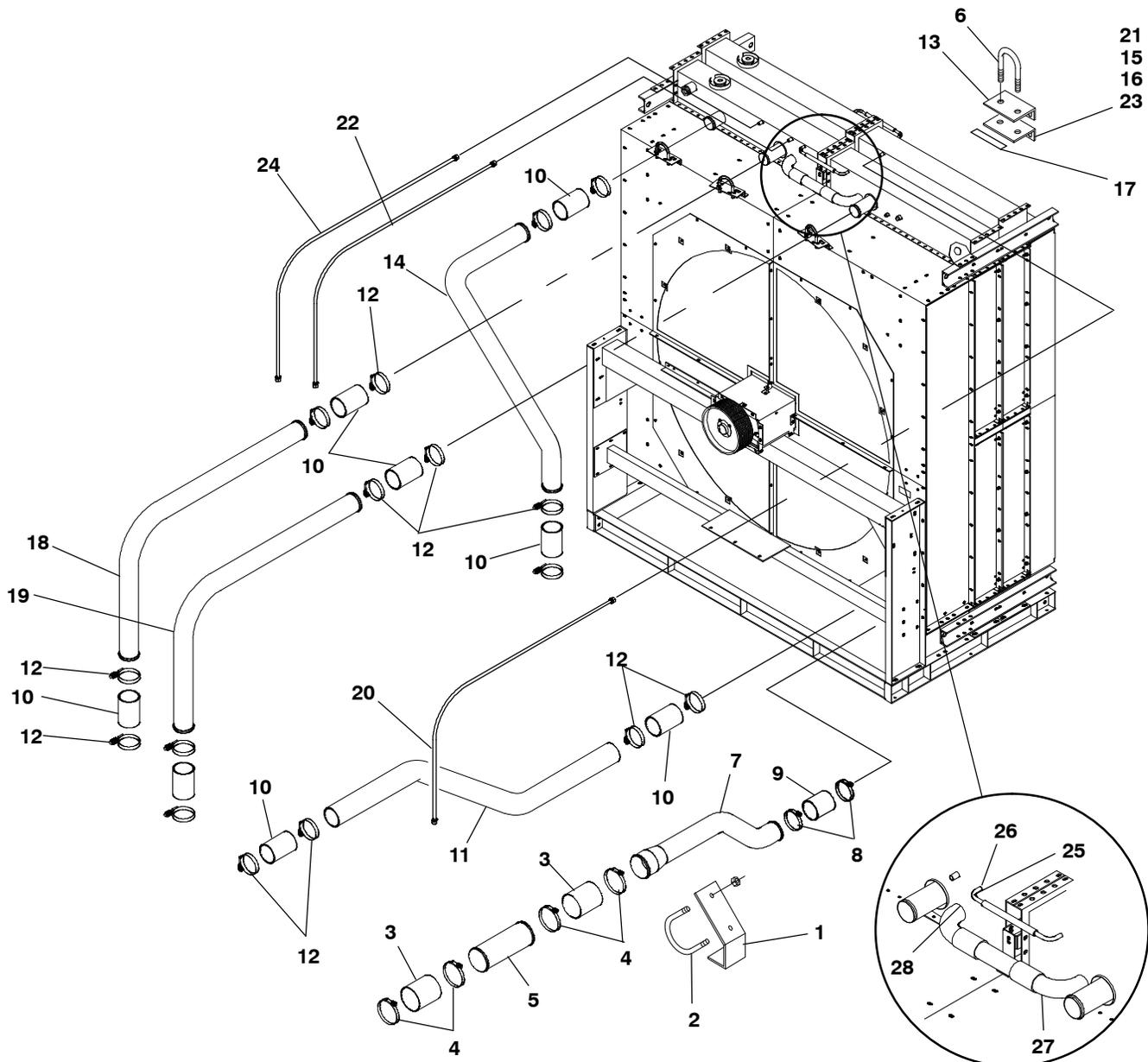


## Radiator (40°)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	179-4759	1	Radiator – Complete	7	130-6749	2	Gauge, Sight
	A030D348	1	Radiator – Complete	8	130-5419	23	Nut, Comby (M8)
	A063U116	1	Kit, Accessories (Includes Indented Parts Below)	9	130-8150	1	Slab, J/W Radiator (Consists of 4 Cores – P/N 130-5709)
	A053P534	1	Belt, Fan	10	130-8143	1	Slab, LTA Radiator (Consists of 4 Cores – P/N 130-5710)
	0130-5356	2	Hose				Stoneguard
	0130-5354	1	Hose	11	130-6764	4	Fan
	0503-2658	9	Hose, Radiator	12	130-5554	1	Guard, Fan
	0503-2451	2	Hose, Radiator	13	A030S325	2	Guard, Fan
	0503-2452	2	Hose, Radiator	14	A030S327	2	Cap, Radiator (110 KPA)
	0503-1872-10	4	Clamp, Hose	15	130-5325	2	Label (Lifting/Warning)
	0503-2661	2	Clamp, Hose	16	098-5822	4	Label (Hot Pressurized Coolant)
	0503-2641	18	Clamp, Hose	17	098-4730	4	Label (Water Drain)
	0503-1872-04	4	Clamp, Hose				Label (Rotating Fan)
	0503-1872-01	4	Clamp, Hose	18	098-6775	4	Label (Voltage & Rotating Parts)
	A030S414	1	Tube, Radiator	19	098-5393	2	Label (Grease)
	0130-5714	1	Tube, Radiator	20	098-4732	2	Kit, LTA and J/W Gasket
1	A029B928	1	Belt				
2	130-5420	37	Bolt, C/W Washer (M8 x 25)	21	098-8432	1	
3	800-2175	12	Bolt (M16 x 50)	22	541-1684	1	
4	860-2034	12	Nut, Nyloc (M16)				
5	526-0038	24	Washer, Flat (M16)				
6	130-6748	4	Duct, Radiator (Trans Frame Side)				

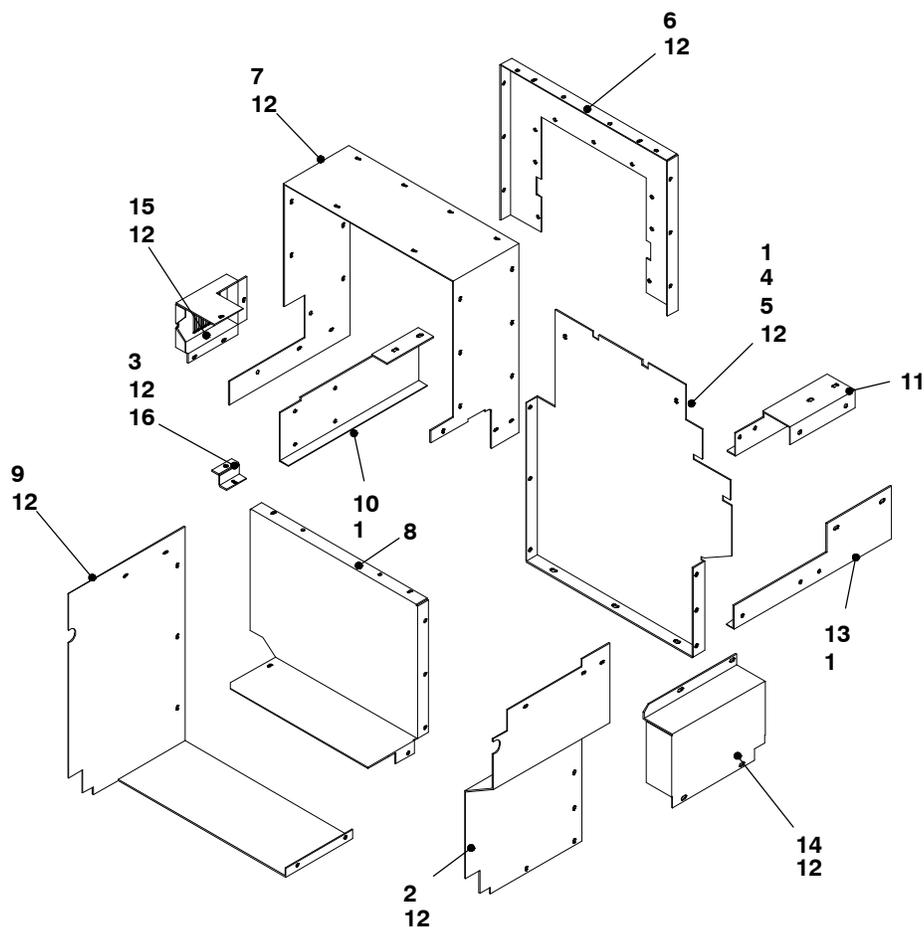
**NOTE: Radiator 179-4759 and A030D348 are Identical Except for the JW Mid and Lower Tanks.**

## Radiator Hoses (40°)



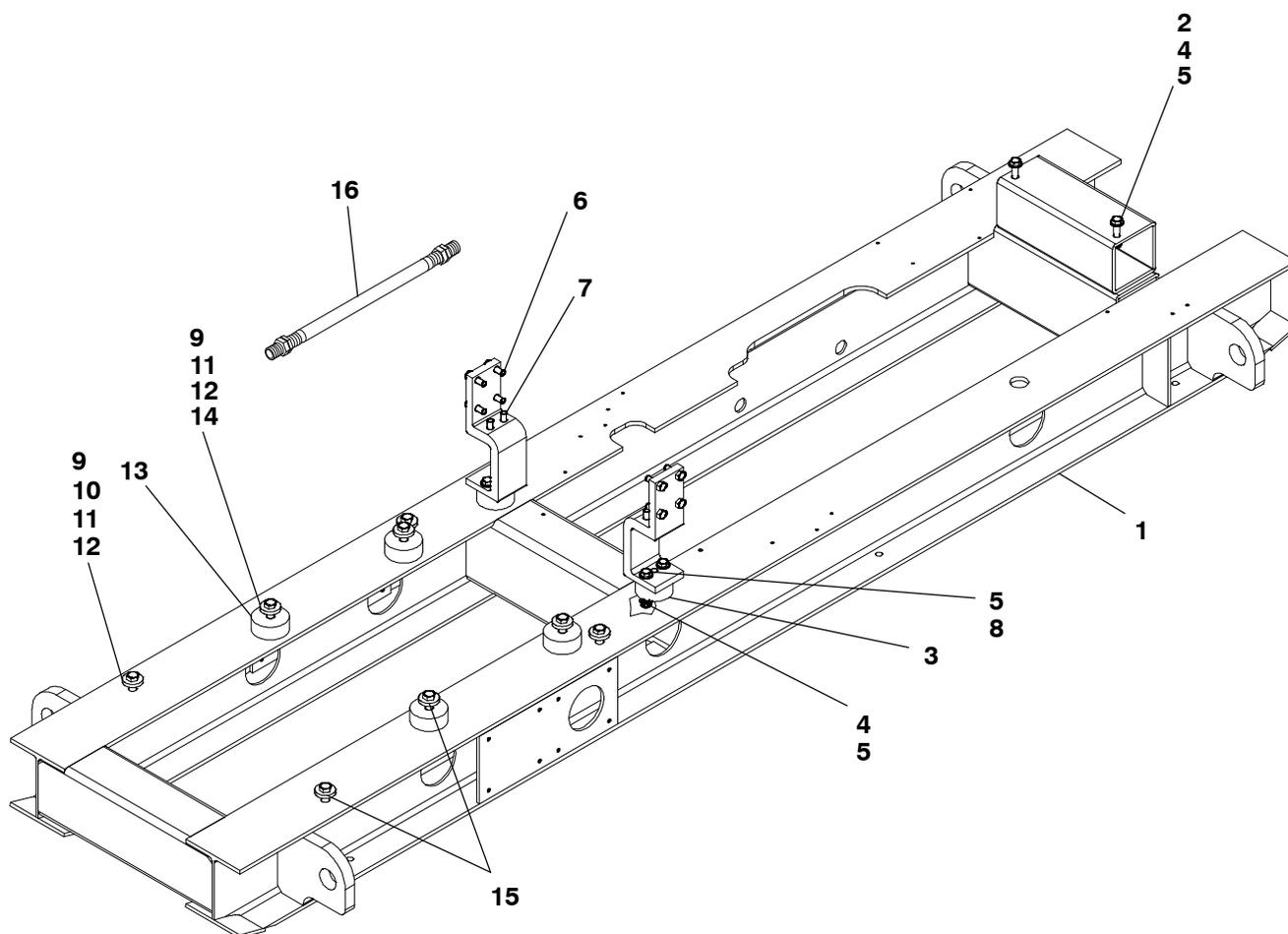
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030S345	1	Bracket, Support	15	526-0219	60	Washer, Flat (1/2)
2	SP64430	1	Clamp, U-Bolt (4")	16	526-2342	6	Washer, Flat (M12)
3	130-5356	2	Hose, J/W (127 ID)	17	403-6151	3	Strip, Foam
4	503-2692	4	Clip (133-155)	18	130-6742	1	Pipe, J/W (Top L/H)
5	A030S415	1	Pipe, J/W (127 OD)	19	130-6743	1	Pipe, J/W (Top R/H)
6	503-2693	3	U-Bolt	20	130-5713	1	Line, J/W Vent
7	A030S350	1	Pipe, J/W (Bottom)	21	130-6744	3	Bracket, Pipe Support
8	503-2661	2	Clip (95-117)	22	A030S414	1	Line, LTA Vent
9	130-5354	1	Hose, J/W	23	130-5419	23	Nut, Comby (M8)
10	130-5353	9	Hose, Radiator (3")	24	130-5714	1	Line, LTA Vent
11	A030S346	1	Pipe, LTA (Bottom)	25	503-2452	2	Hose (25.4 I/D)
12	503-2641	18	Clip (70-92)	26	503-1872-01	4	Clamp
13	130-6740	3	Bracket, Pipe Support	27	503-2451	2	Hose (57.2 I/D)
14	130-8238	1	Pipe, LTA (Top)	28	503-1872-04	4	Clamp

## Radiator Guards (40°)



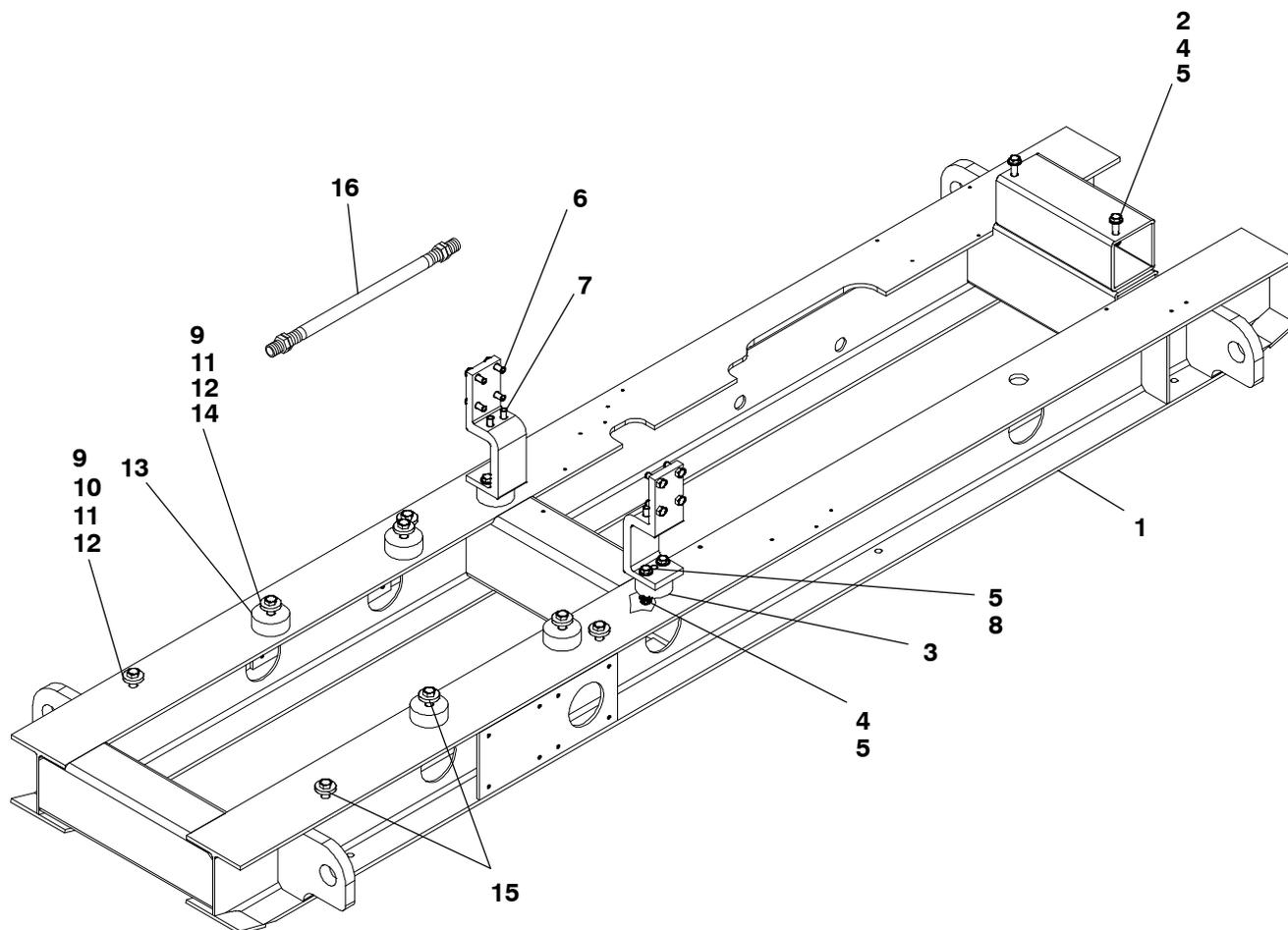
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-5420	37	Bolt, C/W Washer (M8 x 25)	9	A030S338	1	Guard, Bottom Panel
2	A030S330	1	Guard, Bottom R/H Panel	10	130-5846	1	Guard, Side Bracket (L/H)
3	860-2033	2	Nut, Comby (M6)	11	130-5886	1	Guard, Side Bracket (R/H)
4	130-5419	23	Nut, Comby (M8)	12	130-5418	51	Bolt, C/W Washer (M6 x 20)
5	130-6752	1	Guard, Radiator (Lower Rear)	13	130-6762	1	Guard, Side Bracket (R/H)
6	130-5841	1	Guard, Radiator (Upper Rear)	14	A030S339	1	Guard, Infill Panel (R/H)
7	A030S331	1	Guard, Top Panel	15	A030S342	1	Guard, Extension Panel
8	A030S337	1	Guard, Front Panel	16	A030S343	1	Guard, Infill Angle

## Skid



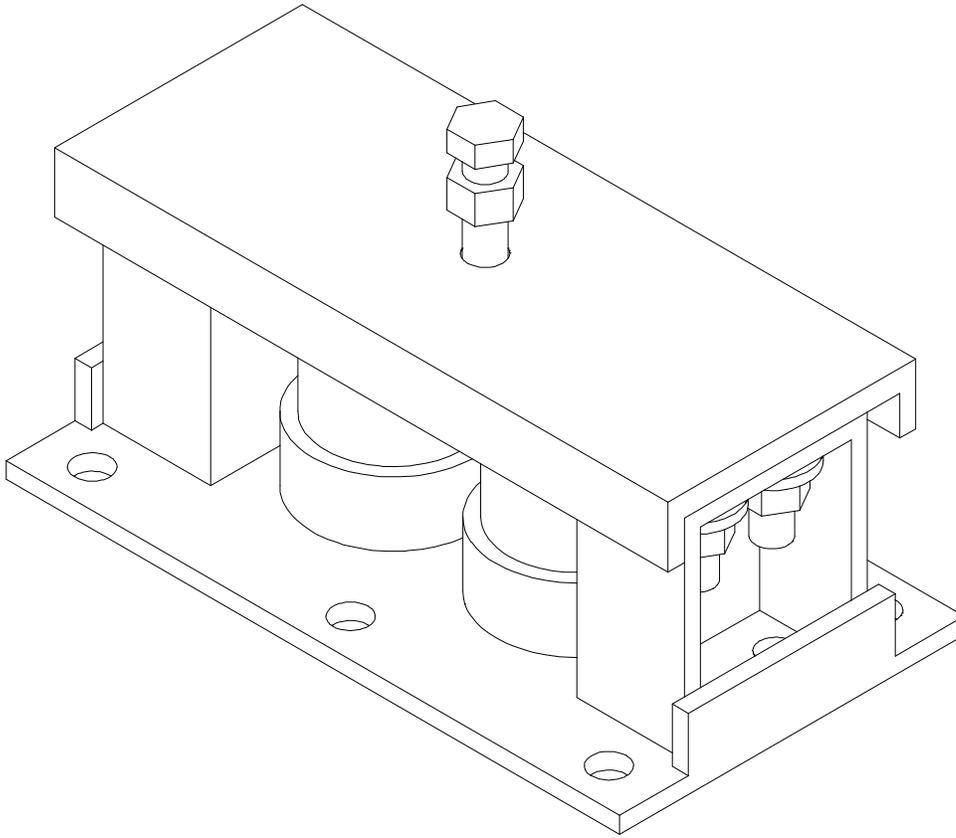
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Skid	11	526-0399-78	4	Washer, Flat (M24)
	A030A665	1	Radiator Skid	12	860-2024-01	4	Nut, Hex (M24 x 3)
	A030C149	1	Remote Radiator Skid	13	232-4061	4	Spacer, Generator Mounting (1-1/16" ID x 5" OD x 2-1/8" Thk) - P7 Alternators
2	800-3047-04	2	Screw, Cap - Hex Head (M20 x 2.5 x 100)	14	800-3048-02	4	Screw, Cap - Hex Head (M24 x 3 x 160) - P7 Alternators
3	403-4332	2	Spacer, Engine Mounting (1" ID x 5" OD x 2-9/32" Thk)	15			Shim, Generator Mounting (Quantity Used As Required)
4	860-2023-01	6	Nut, Hex (M20 x 2.5)		232-3710-01	1	.0239" Thk
5	526-0399-76	12	Washer, Flat (M20)		232-3710-02	1	.0747" Thk
6	800-2206	8	Screw, Cap - Hex Head (M20 x 2.5 x 60)		232-3710-03	1	.1345" Thk
7	800-2208	4	Screw, Cap - Hex Head (M20 x 2.5 x 70)		232-3710-07	1	.0149" Thk
8	800-3047-03	4	Screw, Cap - Hex Head (M20 x 2.5 x 130)	16			Line, Fuel - Flexible
9	526-0460-02	4	Washer, Generator Mounting		501-0918	1	Fuel In
10	800-3048-04	4	Screw, Cap - Hex Head (M24 x 3 x 120) - P80 Alternators		501-0919	1	Fuel Out

## Skid (IBC)



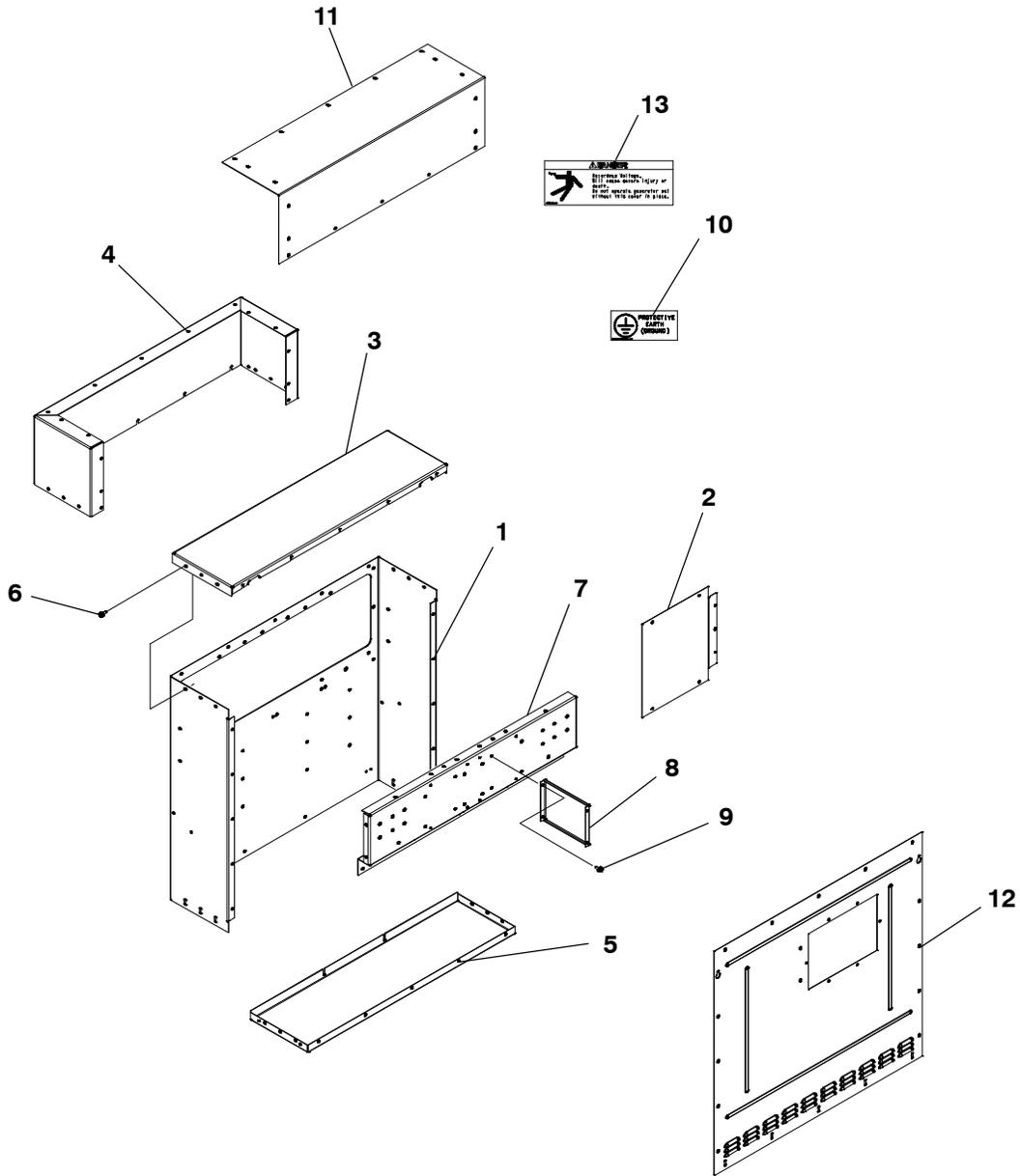
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030A665		Skid	11	526-0399-78	4	Washer, Flat (M24)
2	800-3047-04	2	Screw, Cap - Hex Head (M20 x 2.5 x 100)	12	860-2024-01	4	Nut, Hex (M24 x 3)
3	403-4332	2	Spacer, Engine Mounting (1" ID x 5" OD x 2-9/32" Thk)	13	232-4061	4	Spacer, Generator Mounting (1-1/16" ID x 5" OD x 2-1/8" Thk) - P7 Alternators
4	860-2023-01	6	Nut, Hex (M20 x 2.5)	14	800-3048-02	4	Screw, Cap - Hex Head (M24 x 3 x 160) - P7 Alternators
5	526-0399-76	12	Washer, Flat (M20)	15			Shim, Generator Mounting (Quantity Used As Required)
6	800-2206	8	Screw, Cap - Hex Head (M20 x 2.5 x 60)		232-3710-01	1	.0239" Thk
7	800-2208	4	Screw, Cap - Hex Head (M20 x 2.5 x 70)		232-3710-02	1	.0747" Thk
8	800-3047-03	4	Screw, Cap - Hex Head (M20 x 2.5 x 130)		232-3710-03	1	.1345" Thk
9	526-0460-02	4	Washer, Generator Mounting		232-3710-07	1	.0149" Thk
10	800-3048-04	4	Screw, Cap - Hex Head (M24 x 3 x 120) - P80 Alternators	16			Line, Fuel - Flexible
					501-0918	1	Fuel In
					501-0919	1	Fuel Out

# Isolator



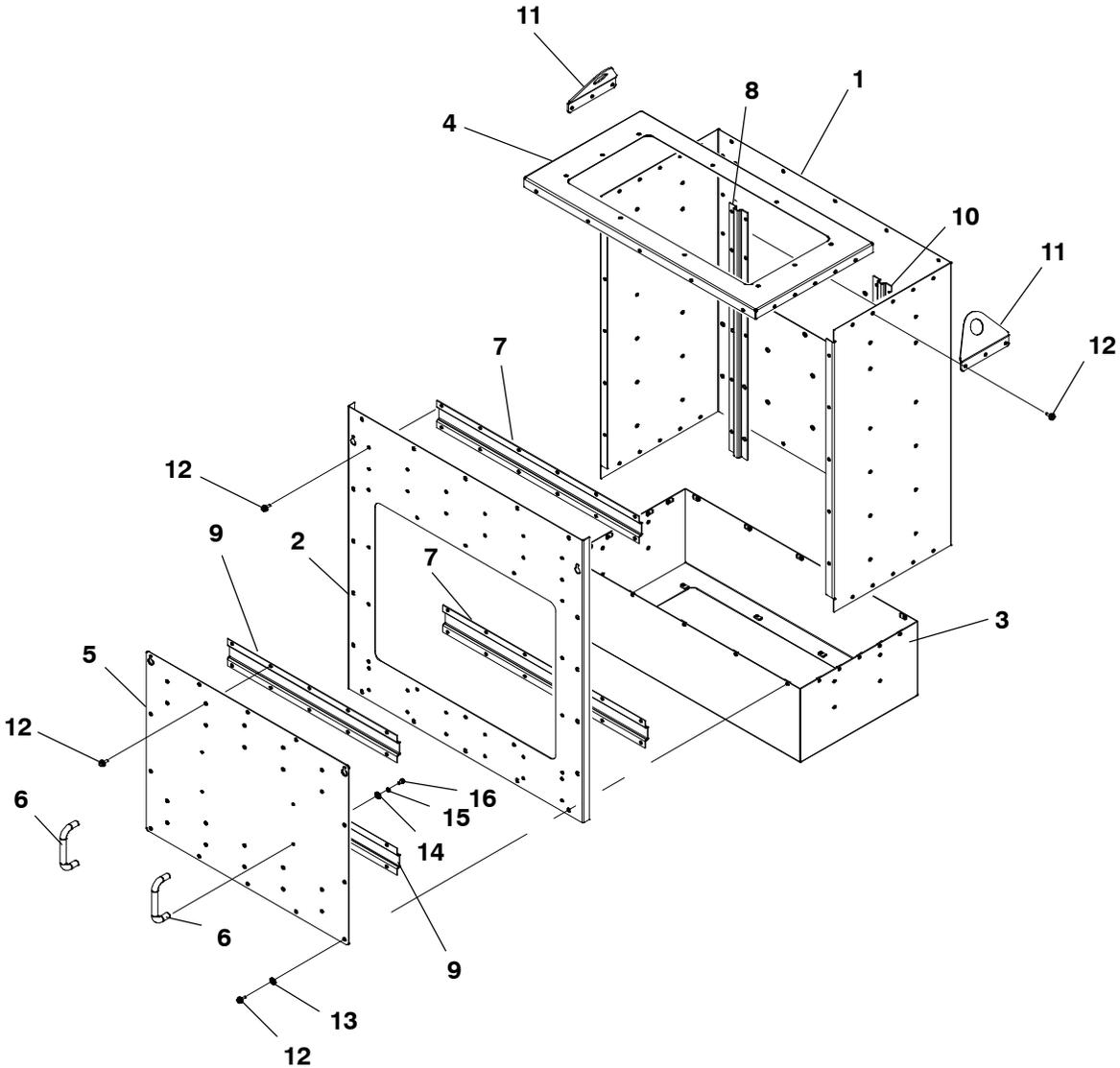
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A030S169	1	Isolator				

## 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	9	821-6002-03	8	Screw, Hex (M6 x 1 x 16)
2	319-5084-02	1	Panel, Terminal	10	098-6635	1	Label, Ground
3	319-5171-02	1	Cover, Circuit Breaker – Bottom Entrance	11	319-5163-02	1	Cover, Circuit Breaker – Adapter Plug – Top and Bottom Entrance
4	319-5162-02	1	Cover, Circuit Breaker – Top and Bottom Entrance	12	319-5176-06	1	Cover, Circuit Breaker – Front Label, Danger
5	319-5088-02	1	Cover, Circuit Breaker	13			
6	821-6003-02	69	Screw, Hex (M8 x 1.25 x 20)		098-5347	1	English
7	A034K745	1	Bracket, Circuit Breaker		098-5347-02	1	French
8	319-5102-04	1	Stiffener, Cover				

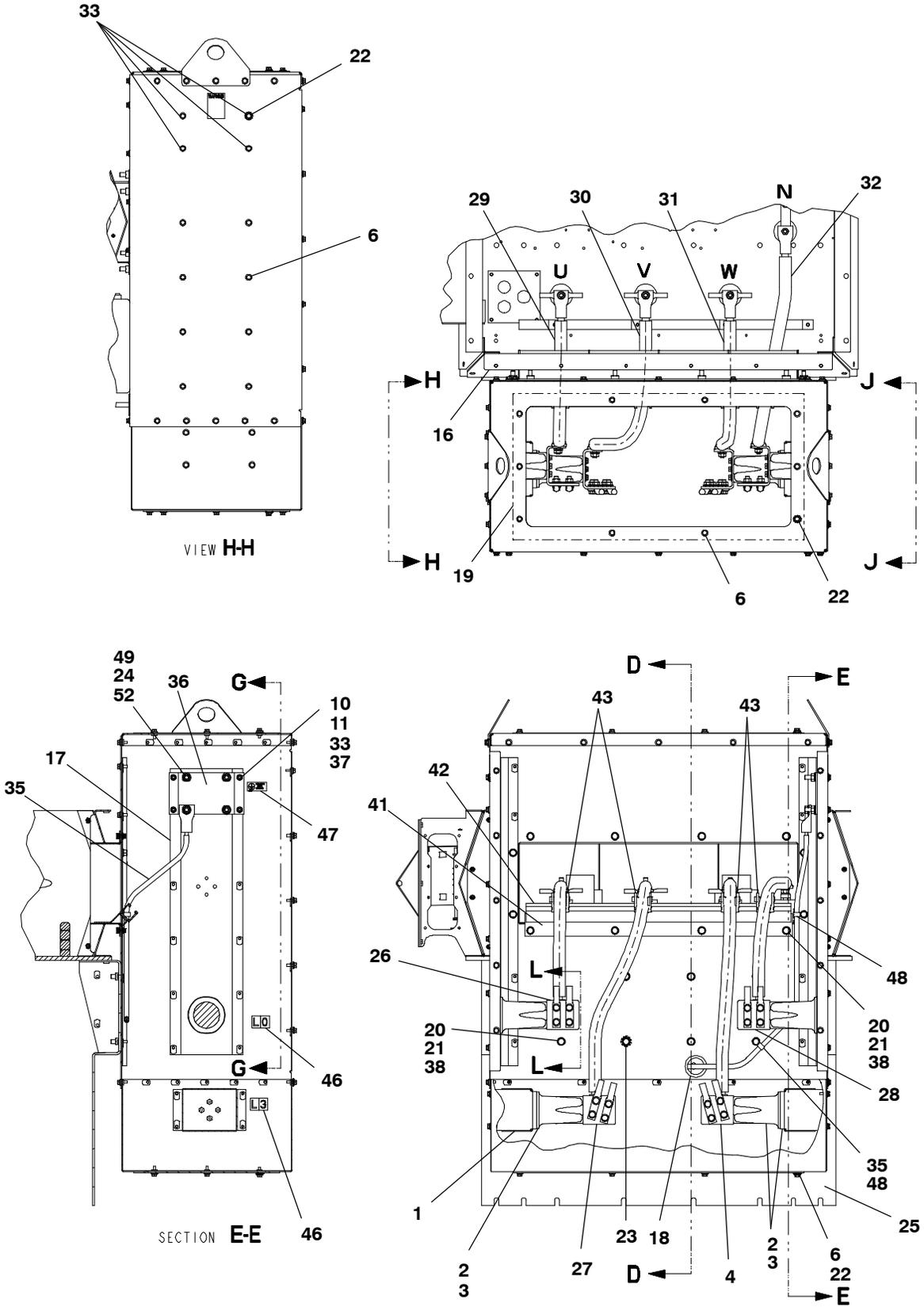
# Entrance Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0169-02	1	Box, Outlet	10	319-6045-02	1	Panel, Output Box
2	330-0172-02	1	Cover, Outlet Box	11	319-5897-02	2	Panel, Mounting
3	330-0181-02	1	Cover, Outlet Box	12	821-6003-02	124	Screw, Hex Head (M8 x 1.25 x 20)
4	330-0170-02	1	Cover, Outlet Box	13	856-0008	4	Washer, Lock - W/EIT (5/16)
5	330-0171-02	1	Cover, Outlet Box	14	850-0114-05	2	Washer, Lock - Split (1/4)
6	319-5877	2	Stiffener, Cover	15	856-0006	2	Washer, Lock - W/EIT (1/4)
7	319-5988-02	2	Panel, Output Box	16	800-0310-03	4	Screw, Cap - Hex Head (1/4-20 x 5/8)
8	319-5989-02	1	Panel, Output Box				
9	319-6049-02	2	Panel, Output Box				

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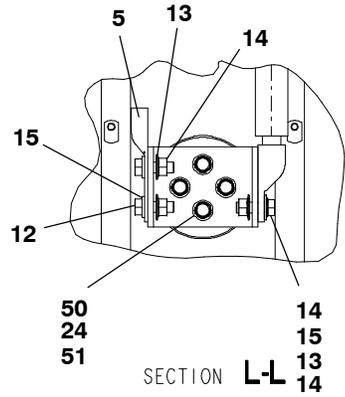
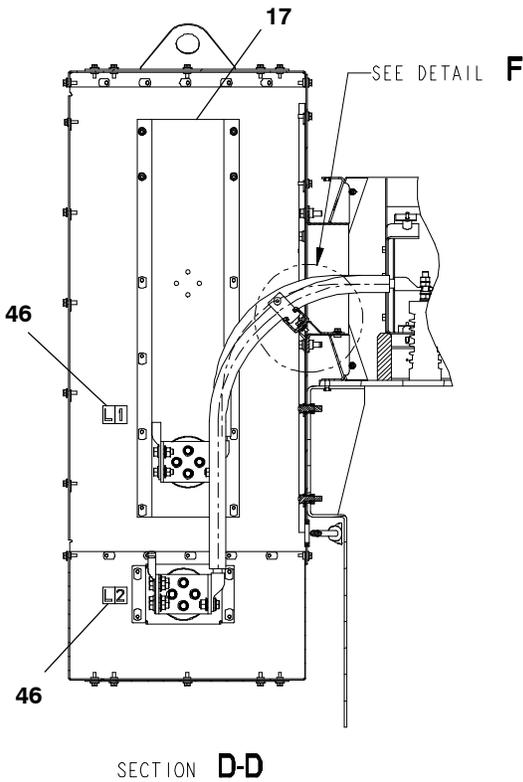
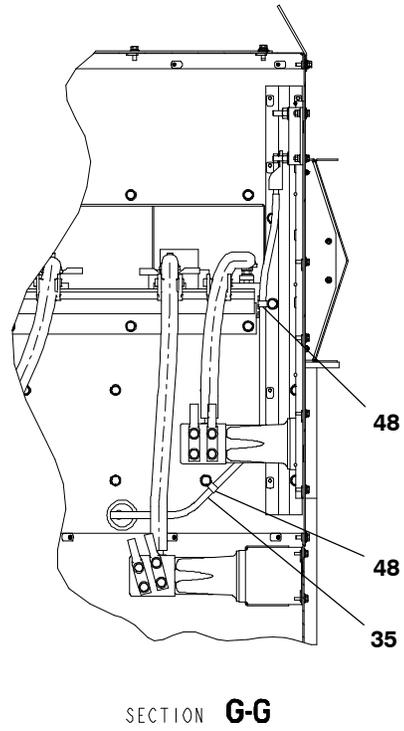
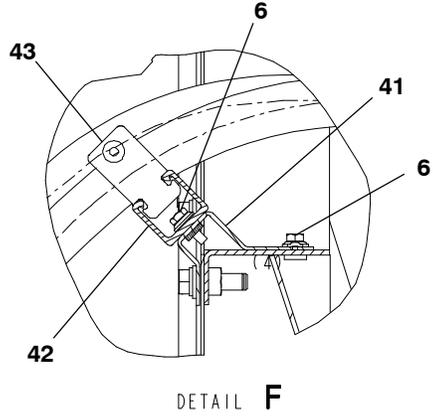
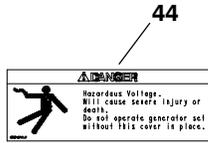
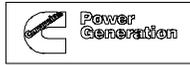
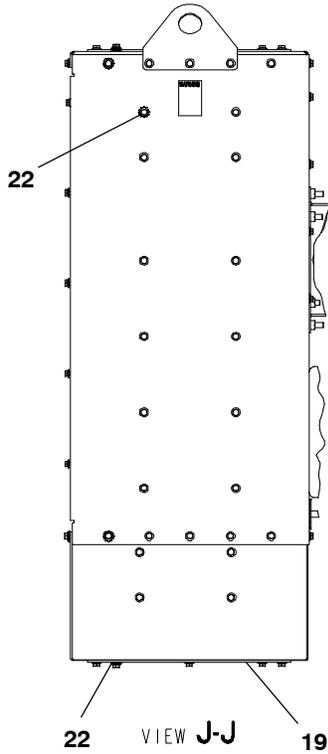
# Entrance Box Assembly Top Entry Illustration #1



## Entrance Box Assembly Top Entry

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5895-02	2	Channel, Support	30	335-0251-02	1	Cable - Assembly
2	872-0036	4	Standoff	31	335-0251-03	1	Cable - Assembly
3	319-5896	4	Plate, Mounting	32	335-0251-04	1	Cable - Assembly
4	337-3772	1	Bus, Bar	33	821-6003-03	8	Screw, Hex Head (M8 x 1.25 x 25)
5	332-4134	8	Lug, Cable	34	098-5822	2	Label, Warning - Lifting
6	821-6003-02	52	Screw, Hex Head (M8 x 1.25 x 20)	35	335-0249-02	1	Cable - Assembly
7	526-0399-20	16	Washer, Flat (3/8) (Not Shown)	36	337-3785	1	Bus, Bar - Ground
8	851-0022	16	Washer, Spring (3/8) (Not Shown)	37	526-0399-60	8	Washer, Flat (M8)
9	800-0310-36	32	Screw, Cap - Hex Head (3/8-16 x 1)	38	850-0114-56	24	Washer, Lock - Split (M12)
10	850-0114-54	8	Washer, Lock - Split (M12)	39	870-2055	8	Nut, Hex (M8 x 1.25) (Not Shown)
11	862-0026-55	8	Nut, Hex (M8 x 1.25)	40	098-7902-03	1	Label, Logo
12	800-2112	20	Screw, Cap - Hex Head (M12 x 1.75 x 30)	41	319-6229-02	1	Bracket, Cable
13	851-0048-03	25	Washer, Belleville (M12)	42	319-6587	1	Channel, Mounting
14	860-2010	20	Nut, Hex (M12 x 1.75)	43	332-4170	4	Clamp, Cable
15	526-2140	20	Washer, Flat (M12)	44	098-5347	1	Label, Danger
16	319-5887-02	1	Panel	45	098-5347-02	1	Label, Danger - French
17	319-5987-02	2	Panel, Output Box	46			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
18	508-1057	1	Grommet		098-5854-06	4	Marked "L"
19	330-0186	2	Cover, Outlet Box		098-5854-07	1	Marked "1"
20	800-3017-56	24	Screw, Locking - Flange (M12 x 1.75 x 40)		098-5854-08	1	Marked "2"
21	526-0399-64	32	Washer, Flat		098-5854-09	1	Marked "3"
22	856-0008	5	Washer, Lock - W/EIT (5/16)		098-5854-10	1	Marked "0"
23	856-0013	1	Washer, Lock - W/EIT (1/2)	47	098-6635	1	Label, Ground
24	850-0050	36	Washer, Lock - Spring (3/8)	48	332-2921	2	Clamp, J
25	319-6050-02	1	Bracket, Terminal Block	49	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4)
26	337-3789	1	Bus, Bar (MV/HV)	50	800-0050	32	Screw, Cap - Hex Head (3/8-16 x 1)
27	337-3788	1	Bus, Bar (MV/HV)	51	526-0030	32	Washer, Flat (3/8)
28	337-3814	1	Bus, Bar (MV/HV)	52	862-0003	4	Nut, Hex (3/8-16)
29	335-0251-01	1	Cable - Assembly				

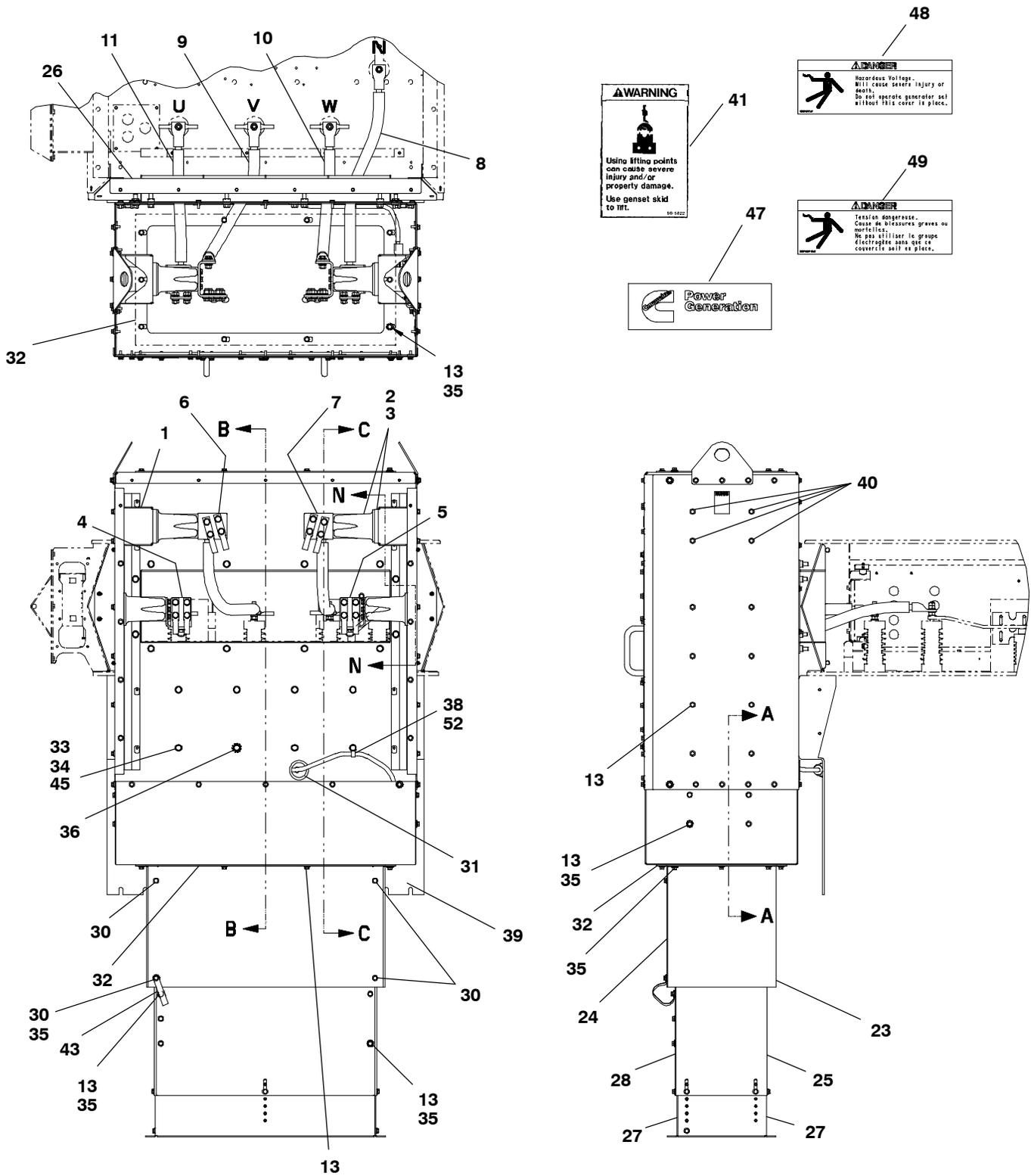
# Entrance Box Assembly Top Entry Illustration #2



## Entrance Box Assembly Top Entry

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5895-02	2	Channel, Support	30	335-0251-02	1	Cable - Assembly
2	872-0036	4	Standoff	31	335-0251-03	1	Cable - Assembly
3	319-5896	4	Plate, Mounting	32	335-0251-04	1	Cable - Assembly
4	337-3772	1	Bus, Bar	33	821-6003-03	8	Screw, Hex Head (M8 x 1.25 x 25)
5	332-4134	8	Lug, Cable	34	098-5822	2	Label, Warning - Lifting
6	821-6003-02	52	Screw, Hex Head (M8 x 1.25 x 20)	35	335-0249-02	1	Cable - Assembly
7	526-0399-20	16	Washer, Flat (3/8) (Not Shown)	36	337-3785	1	Bus, Bar - Ground
8	851-0022	16	Washer, Spring (3/8) (Not Shown)	37	526-0399-60	8	Washer, Flat (M8)
9	800-0310-36	32	Screw, Cap - Hex Head (3/8-16 x 1)	38	850-0114-56	24	Washer, Lock - Split (M12)
10	850-0114-54	8	Washer, Lock - Split (M12)	39	870-2055	8	Nut, Hex (M8 x 1.25) (Not Shown)
11	862-0026-55	8	Nut, Hex (M8 x 1.25)	40	098-7902-03	1	Label, Logo
12	800-2112	20	Screw, Cap - Hex Head (M12 x 1.75 x 30)	41	319-6229-02	1	Bracket, Cable
13	851-0048-03	25	Washer, Belleville (M12)	42	319-6587	1	Channel, Mounting
14	860-2010	20	Nut, Hex (M12 x 1.75)	43	332-4170	4	Clamp, Cable
15	526-2140	20	Washer, Flat (M12)	44	098-5347	1	Label, Danger
16	319-5887-02	1	Panel	45	098-5347-02	1	Label, Danger - French
17	319-5987-02	2	Panel, Output Box	46			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
18	508-1057	1	Grommet		098-5854-06	4	Marked "L"
19	330-0186	2	Cover, Outlet Box		098-5854-07	1	Marked "1"
20	800-3017-56	24	Screw, Locking - Flange (M12 x 1.75 x 40)		098-5854-08	1	Marked "2"
21	526-0399-64	32	Washer, Flat		098-5854-09	1	Marked "3"
22	856-0008	5	Washer, Lock - W/EIT (5/16)		098-5854-10	1	Marked "0"
23	856-0013	1	Washer, Lock - W/EIT (1/2)	47	098-6635	1	Label, Ground
24	850-0050	36	Washer, Lock - Spring (3/8)	48	332-2921	2	Clamp, J
25	319-6050-02	1	Bracket, Terminal Block	49	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4)
26	337-3789	1	Bus, Bar (MV/HV)	50	800-0050	32	Screw, Cap - Hex Head (3/8-16 x 1)
27	337-3788	1	Bus, Bar (MV/HV)	51	526-0030	32	Washer, Flat (3/8)
28	337-3814	1	Bus, Bar (MV/HV)	52	862-0003	4	Nut, Hex (3/8-16)
29	335-0251-01	1	Cable - Assembly				

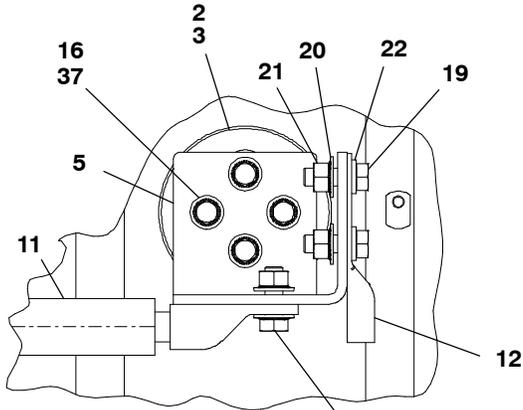
# Entrance Box Assembly Bottom Entry Illustration #1



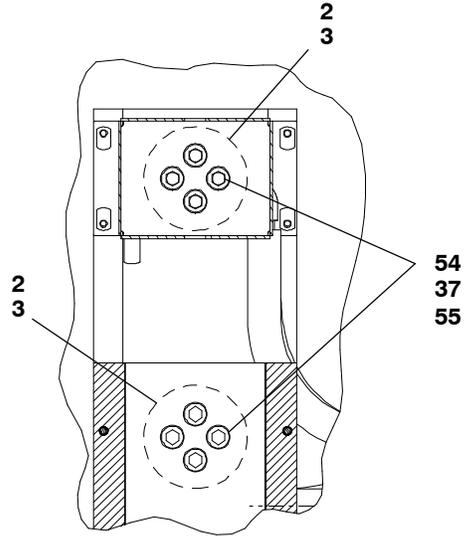
## Entrance Box Assembly Bottom Entry

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5895-02	2	Channel, Support	33	800-3017-56	24	Screw, Locking – Flange (M12 x 1.75 x 40)
2	872-0036	4	Standoff	34	526-0399-64	32	Washer, Flat
3	319-5896	4	Plate, Mounting	35	856-0008	6	Washer, Lock – W/EIT (5/16)
4	337-3780	1	Bus, Bar	36	856-0013	1	Washer, Lock – W/EIT (1/2)
5	337-3766	1	Bus, Bar	37	850-0050	36	Washer, Lock – Spring (3/8)
6	337-3772	1	Bus, Bar	38	335-0249-01	1	Cable, Ground
7	337-3773	1	Bus, Bar	39	319-6050-02	1	Bracket, Terminal Block
8	335-0251-06	1	Cable – Assembly	40	821-6003-03	8	Screw, Hex Head (M8 x 1.25 x 25)
9	335-0251-07	1	Cable – Assembly	41	098-5822	2	Label, Warning – Lifting
10	335-0251-08	1	Cable – Assembly	42	337-3785	1	Bus, Bar – Ground
11	335-0251-05	1	Cable – Assembly	43	337-0049	1	Strap, Bond
12	332-4134	8	Lug, Cable	44	526-0399-60	8	Washer, Flat (M8)
13	821-6003-02	57	Screw, Hex Head (M8 x 1.25 x 20)	45	850-0114-56	24	Washer, Lock – Split (M12)
14	526-0399-20	16	Washer, Flat (3/8)	46	870-2055	8	Nut, Hex (M8 x 1.25) (Not Shown)
15	851-0022	16	Washer, Spring (3/8)	47	098-7902-03	1	Label, Logo
16	800-0310-36	32	Screw, Cap – Hex Head (3/8-16 x 1)	48	098-5347	1	Label, Danger
17	850-0114-54	8	Washer, Lock – Split (M12)	49	098-5347-02	1	Label, Danger – French
18	862-0026-55	8	Nut, Hex (M8 x 1.25)	50			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
19	800-2112	20	Screw, Cap – Hex Head (M12 x 1.75 x 30)				Marked “L”
20	851-0048-03	25	Washer, Belleville (M12)		098-5854-06	4	Marked “1”
21	860-2010	20	Nut, Hex (M12)		098-5854-07	1	Marked “2”
22	526-2140	20	Washer, Flat (M12)		098-5854-08	1	Marked “3”
23	332-4160-02	1	Housing, Terminal – Duct		098-5854-09	1	Marked “0”
24	332-4161-02	1	Housing, Terminal – Duct		098-5854-10	1	
25	332-4176-02	1	Housing, Terminal – Duct	51	098-6635	1	Label, Ground
26	319-5887-02	1	Panel	52	332-2921	1	Clamp, J
27	332-4178-02	2	Housing, Terminal Base	53	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4)
28	332-4177-02	1	Housing, Terminal – Duct	54	800-0050	32	Screw, Cap – Hex Head (3/8-16 x 1)
29	319-5987-02	2	Panel, Output Box	55	526-0030	32	Washer, Flat (3/8)
30	821-6003-01	4	Screw, Hex Head (M8 x 1.25 x 16)	56	862-0003	4	Nut, Hex (3/8-16)
31	508-1057	1	Grommet				
32	330-0186	2	Cover, Outlet Box				

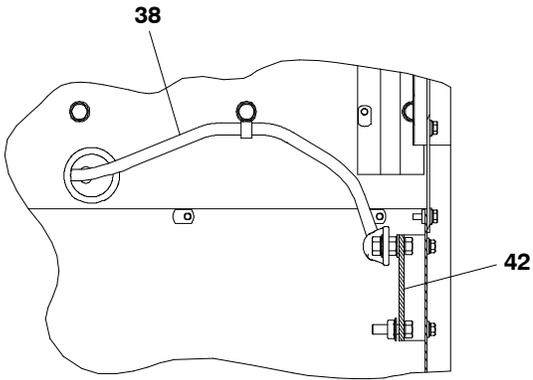
# Entrance Box Assembly Bottom Entry Illustration #2



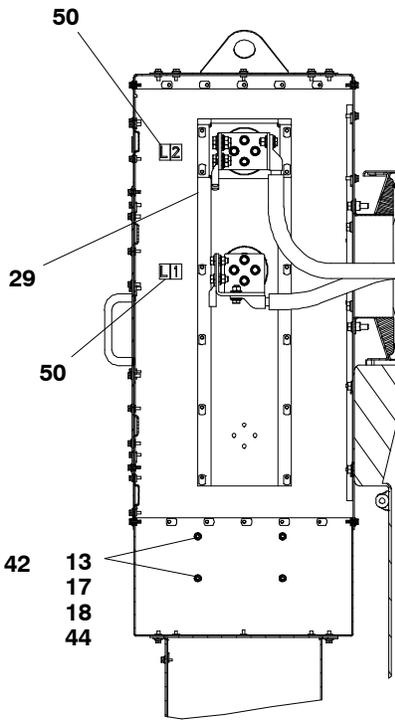
**DETAIL K**  
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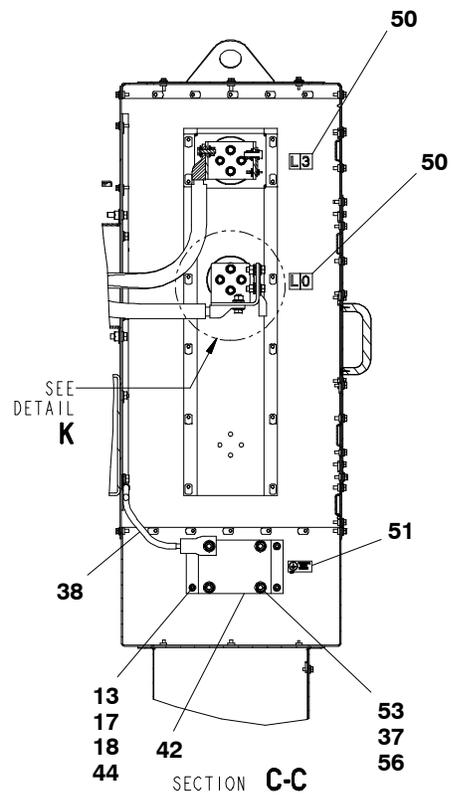
**SECTION N-N**



**SECTION A-A**



**SECTION B-B**

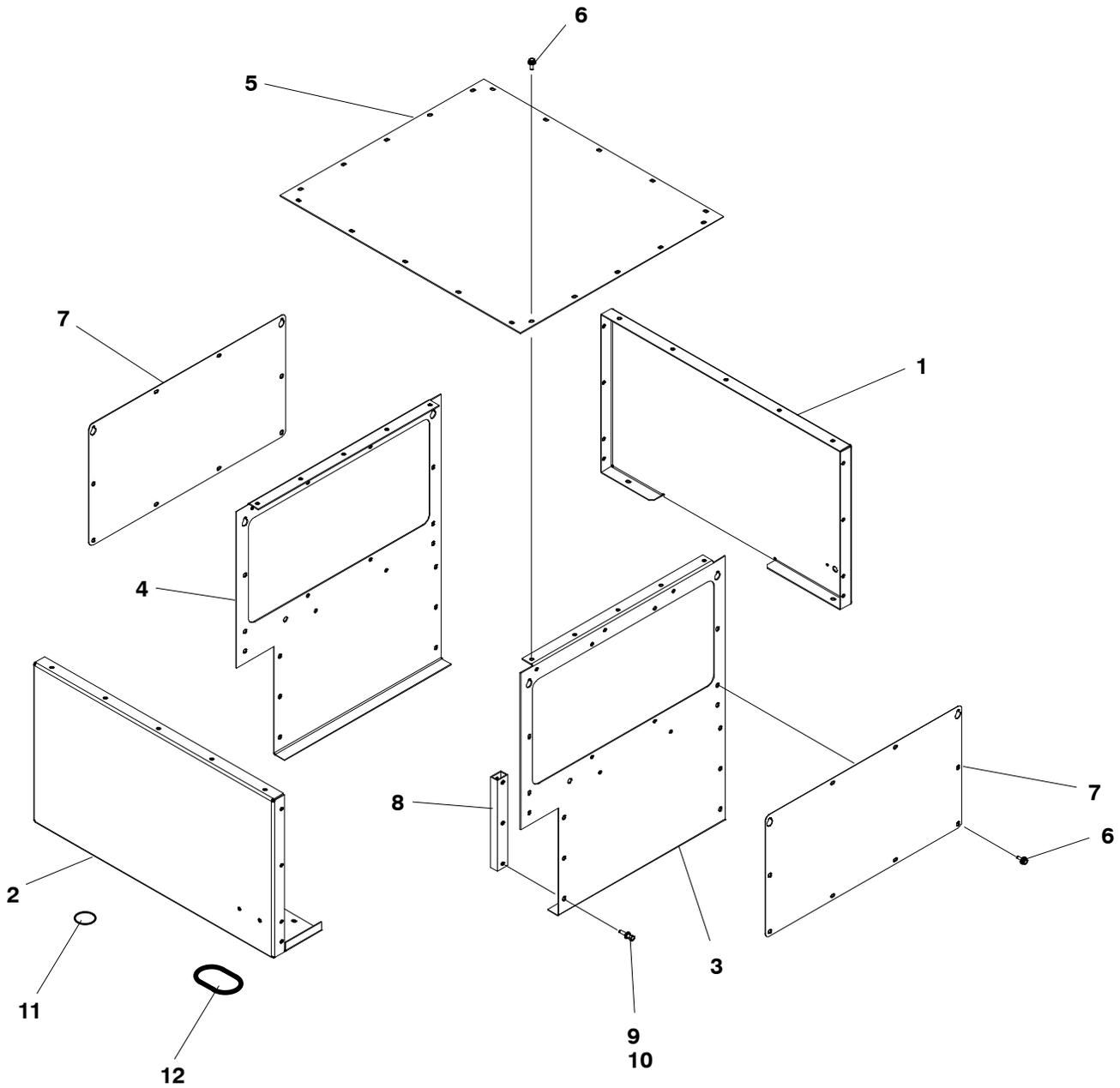


**SECTION C-C**

## Entrance Box Assembly Bottom Entry

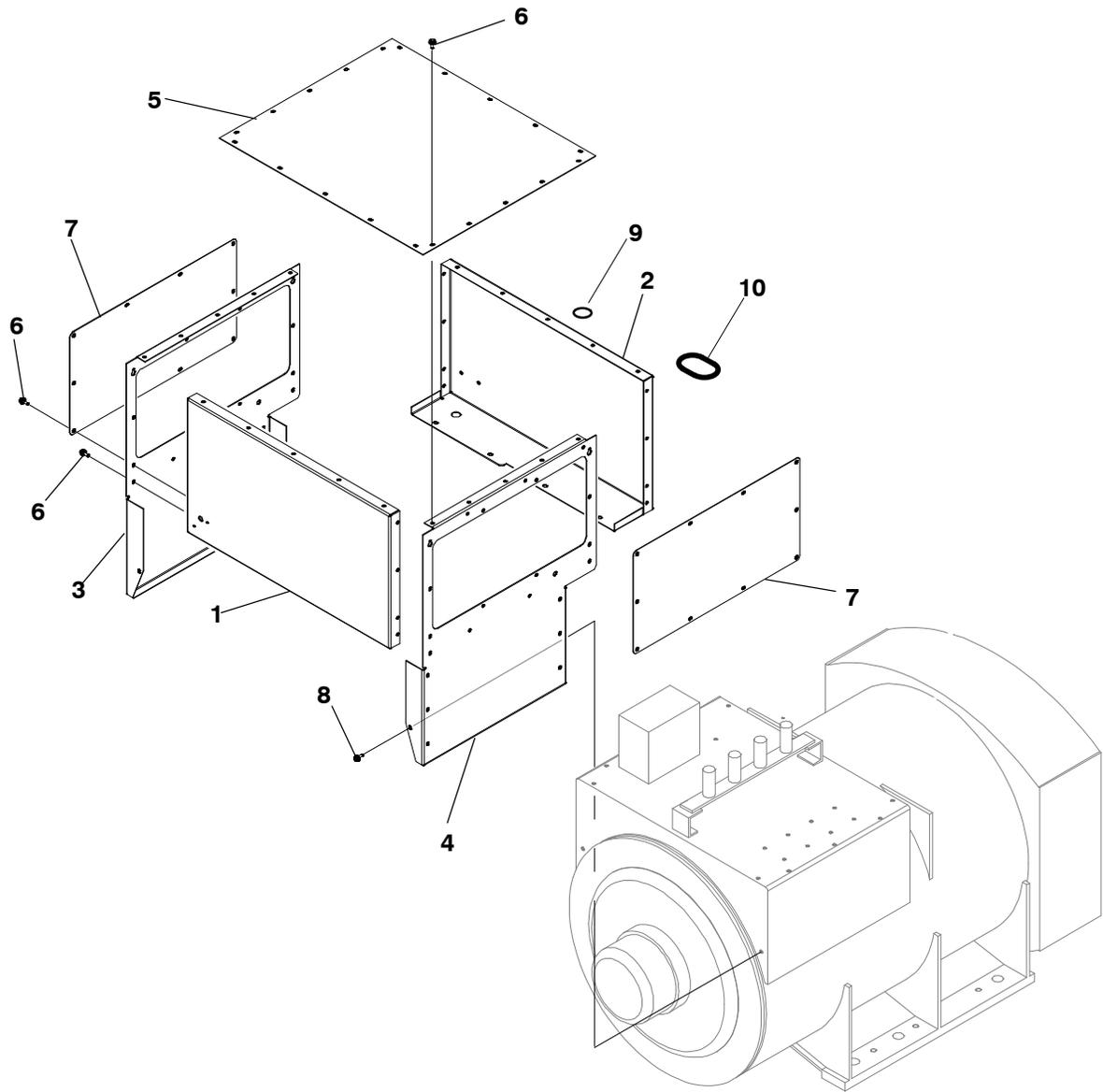
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5895-02	2	Channel, Support	33	800-3017-56	24	Screw, Locking – Flange (M12 x 1.75 x 40)
2	872-0036	4	Standoff				
3	319-5896	4	Plate, Mounting	34	526-0399-64	32	Washer, Flat
4	337-3780	1	Bus, Bar	35	856-0008	6	Washer, Lock – W/EIT (5/16)
5	337-3766	1	Bus, Bar	36	856-0013	1	Washer, Lock – W/EIT (1/2)
6	337-3772	1	Bus, Bar	37	850-0050	36	Washer, Lock – Spring (3/8)
7	337-3773	1	Bus, Bar	38	335-0249-01	1	Cable, Ground
8	335-0251-06	1	Cable – Assembly	39	319-6050-02	1	Bracket, Terminal Block
9	335-0251-07	1	Cable – Assembly	40	821-6003-03	8	Screw, Hex Head (M8 x 1.25 x 25)
10	335-0251-08	1	Cable – Assembly				
11	335-0251-05	1	Cable – Assembly	41	098-5822	2	Label, Warning – Lifting
12	332-4134	8	Lug, Cable	42	337-3785	1	Bus, Bar – Ground
13	821-6003-02	57	Screw, Hex Head (M8 x 1.25 x 20)	43	337-0049	1	Strap, Bond
14	526-0399-20	16	Washer, Flat (3/8)	44	526-0399-60	8	Washer, Flat (M8)
15	851-0022	16	Washer, Spring (3/8)	45	850-0114-56	24	Washer, Lock – Split (M12)
16	800-0310-36	32	Screw, Cap – Hex Head (3/8-16 x 1)	46	870-2055	8	Nut, Hex (M8 x 1.25) (Not Shown)
17	850-0114-54	8	Washer, Lock – Split (M12)	47	098-7902-03	1	Label, Logo
18	862-0026-55	8	Nut, Hex (M8 x 1.25)	48	098-5347	1	Label, Danger
19	800-2112	20	Screw, Cap – Hex Head (M12 x 1.75 x 30)	49	098-5347-02	1	Label, Danger – French
20	851-0048-03	25	Washer, Belleville (M12)	50			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
21	860-2010	20	Nut, Hex (M12)		098-5854-06	4	Marked “L”
22	526-2140	20	Washer, Flat (M12)		098-5854-07	1	Marked “1”
23	332-4160-02	1	Housing, Terminal – Duct		098-5854-08	1	Marked “2”
24	332-4161-02	1	Housing, Terminal – Duct		098-5854-09	1	Marked “3”
25	332-4176-02	1	Housing, Terminal – Duct		098-5854-10	1	Marked “0”
26	319-5887-02	1	Panel	51	098-6635	1	Label, Ground
27	332-4178-02	2	Housing, Terminal Base	52	332-2921	1	Clamp, J
28	332-4177-02	1	Housing, Terminal – Duct	53	800-0051	4	Screw, Cap – Hex Head (3/8-16 x 1-1/4)
29	319-5987-02	2	Panel, Output Box				
30	821-6003-01	4	Screw, Hex Head (M8 x 1.25 x 16)	54	800-0050	32	Screw, Cap – Hex Head (3/8-16 x 1)
31	508-1057	1	Grommet	55	526-0030	32	Washer, Flat (3/8)
32	330-0186	2	Cover, Outlet Box	56	862-0003	4	Nut, Hex (3/8-16)

## Terminal Box P7 Alternators (Spec A-D)



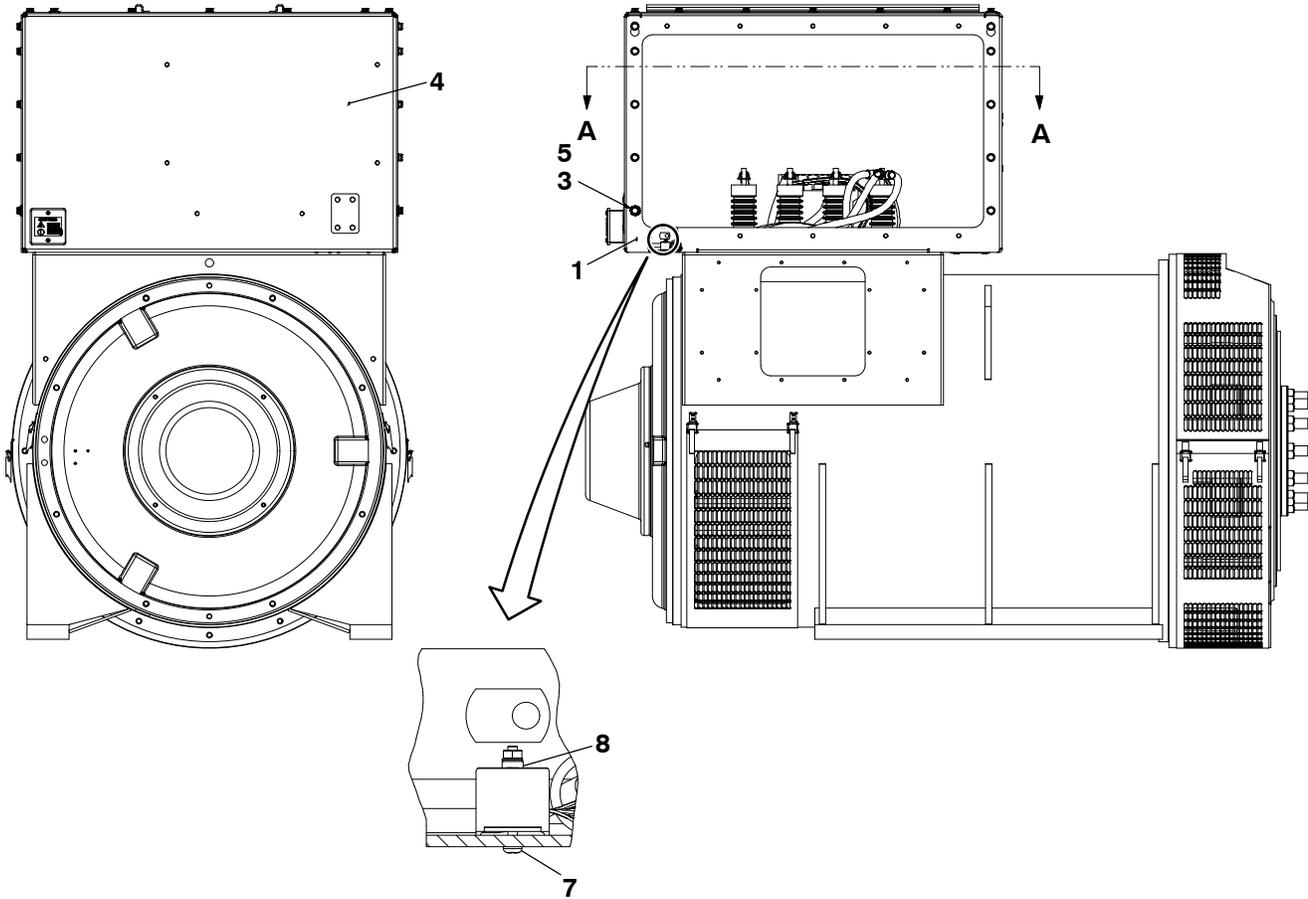
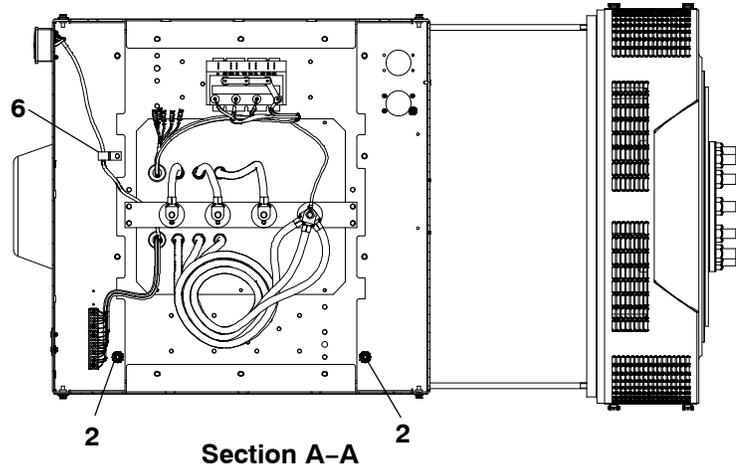
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5080-02	1	Panel, Terminal - Front	7	319-5097-02	2	Panel, Terminal
2	A048E863	1	Panel, Terminal - Back	8	319-5488-02	4	Box, Terminal
3	319-5082-02	1	Panel, Terminal - Left	9	800-2061	12	Screw, Hex Head (M8 x 40)
4	319-5085-02	1	Panel, Terminal - Right	10	526-0399-60	12	Washer, Flat (M8)
5	319-5083-02	1	Panel, Terminal - Top	11	0508-1090	1	Grommet
6	821-6003-02	56	Screw, Hex Head (M8 x 1.25 x 20)	12	0508-0001	1	Grommet, Rubber

## Terminal Box MV7 (Spec A-D)



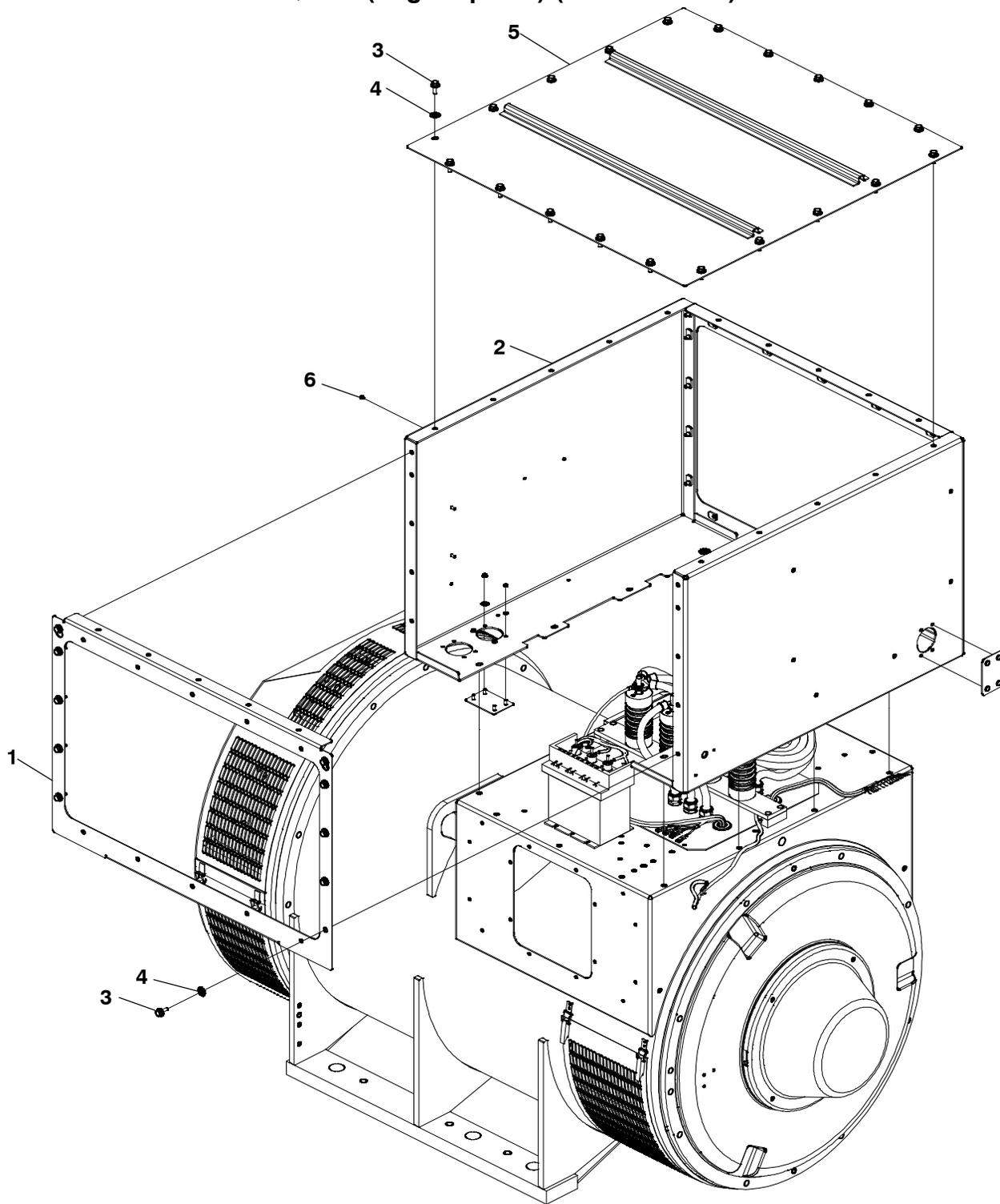
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5427-02	1	Panel, Terminal	7	319-5097-02	2	Panel, Terminal
2	A048E861	1	Panel, Terminal Box	8	821-6004-01	4	Screw, Hex Head (M10 x 1.5 x 20)
3	319-5429-02	1	Panel, Terminal	9	0508-1090	1	Grommet
4	319-5430-02	1	Panel, Terminal	10	0508-0001	1	Grommet, Rubber
5	319-5083-02	1	Panel, Terminal				
6	821-6003-02	44	Screw, Hex Head (M8 x 1.25 x 20)				

**Terminal Box (MV) (PC3300)  
W/RTD (Begin Spec E) (Illustration #1)**



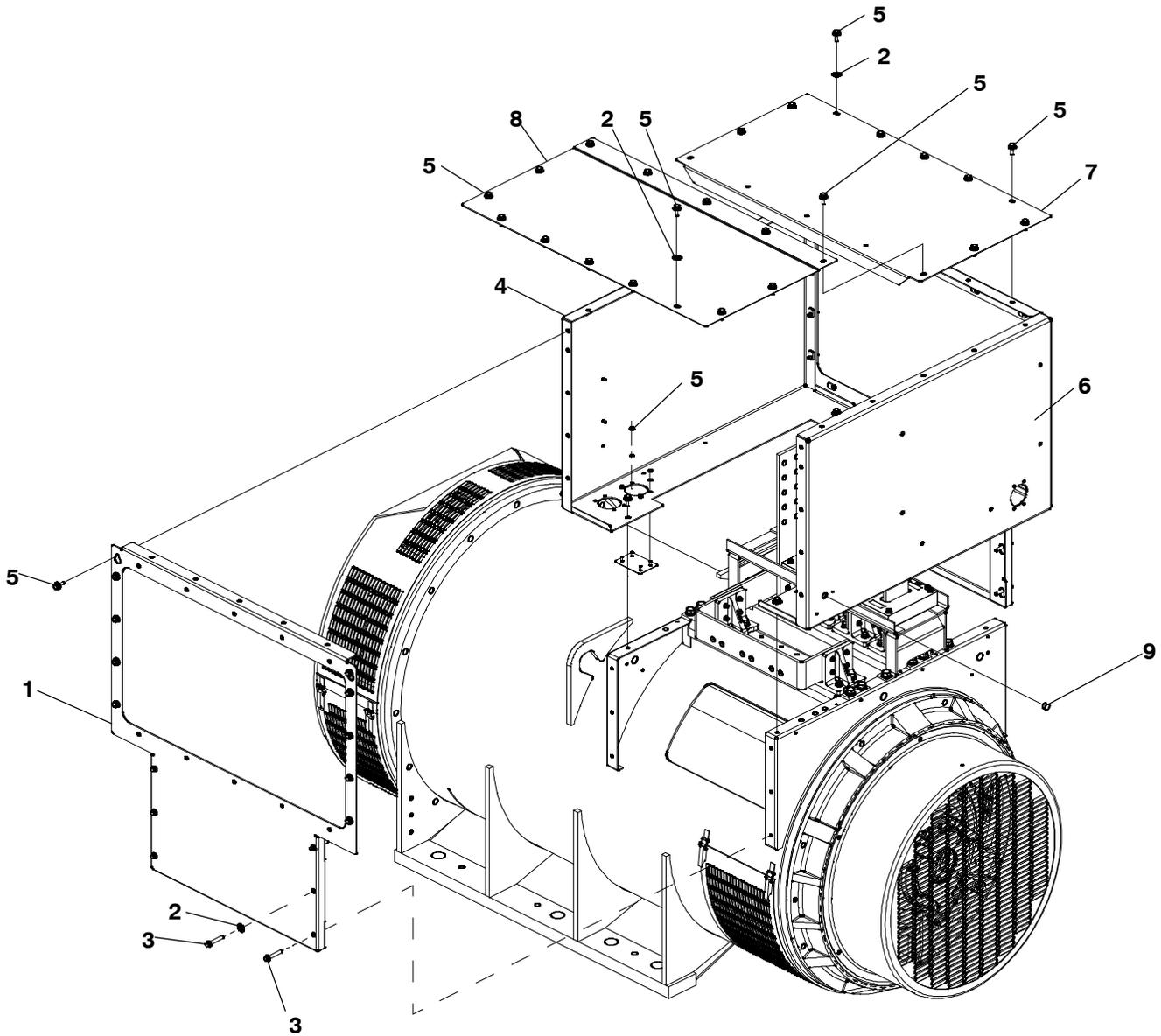
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029B842	2	Panel, Terminal Box	5	0856-0008	3	Washer, Lock
2	0856-0010	2	Washer, Lock	6	0332-2634	1	Clamp, J
3	0821-6003-0260		Screw, Hex Head	7	0819-1161-01	4	Screw, Pan Head
4	A052Z847	1	Panel, Terminal	8	0332-4088	4	Spacer

**Terminal Box (MV) (PC3300)  
W/RTD (Begin Spec E) (Illustration #2)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029B842	2	Panel, Terminal Box	4	0856-0008	3	Washer, Lock
2	A052Z843	1	Panel, Terminal	5	A041D800	1	Panel, Terminal Box
3	0821-6003-0260		Screw, Hex Head	6	0818-1150-02	2	Rivet, Drive Plastic

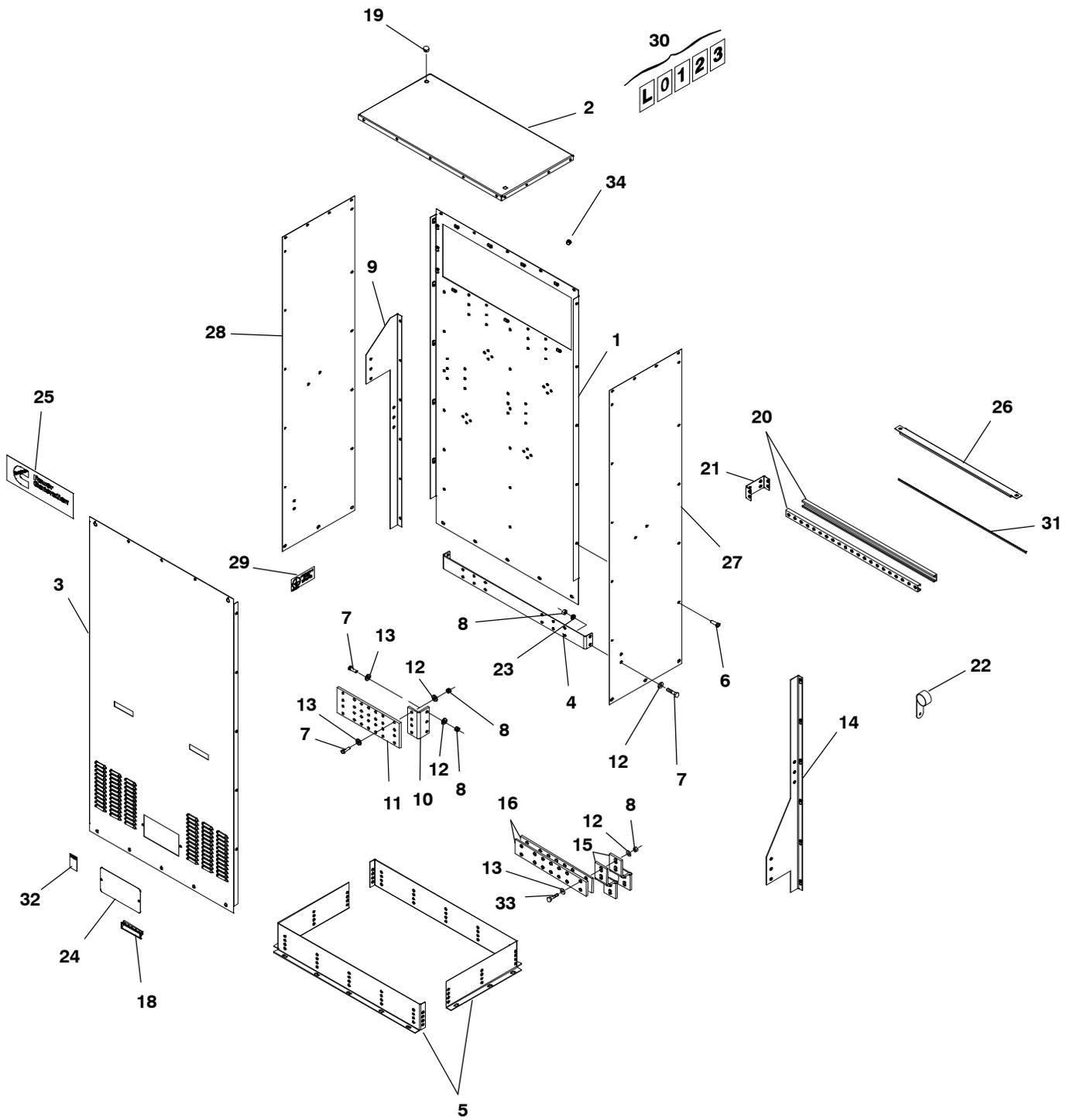
## Terminal Box PCC3300 (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028V690	2	Panel, Terminal Box	6	A052X320	1	Panel, Terminal Box
2	0856-0008	6	Washer, Lock	7	A034X913	1	Panel, Terminal Box
3	A057P268	12	Screw, Hex Flange Head	8	A034X654	1	Panel, Terminal Box
4	A052X316	1	Panel, Terminal Box	9	0517-0135	1	Plug, Hole
5	0821-6003-0267		Screw, Hex Head				

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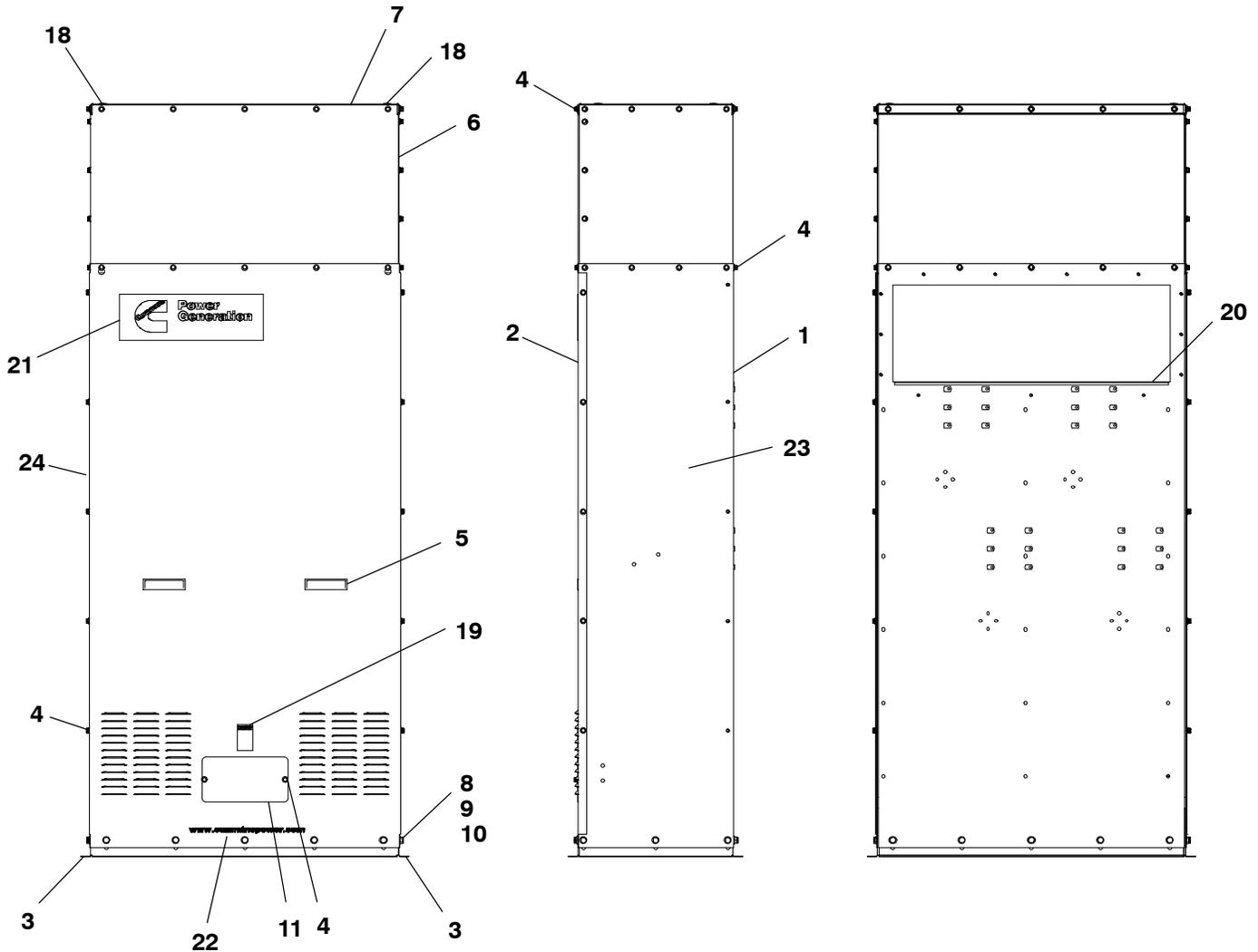
# Terminal Housing



## Terminal Housing

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3967-02	1	Housing, Terminal	21	332-4054-02	2	Housing, Terminal – Brace – Low Voltage Top Entry
2	332-3969-02	1	Housing, Terminal – Top				Clamp, Loop – Low Voltage Top Entry
3	332-3970-02	1	Housing, Terminal – Front – Low Voltage Bottom Entry	22	332-2898	1	Washer, Lock – W/EIT
4	A032Y595	1	Bus, Bar – Ground	23	856-0013	4	Panel, Filler
5	332-3978-02	2	Housing, Terminal – Base	24	319-4363-02	1	Label, Logo
6	821-6003-02	58	Screw, Hex Head (M8 x 1.25 x 20)	25	098-7902-04	1	Insulator, Cable – Low Voltage Top Entry
7	800-2114	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 40)	26	332-4060	1	Housing, Terminal – Right Side
8	860-2010	A/R	Nut, Hex (M12 x 1.75)	27	332-4062-02	1	Housing, Terminal – Left Side
9	332-3976-02	3	Housing, Terminal – Low Voltage Bottom Entry	28	332-4063-02	1	Label, Ground
10	337-3662	8	Insulation, Bus Bar	29	098-6635	1	Label, Marker (10 Characters Per Card) (Quantity Used As Required)
11	337-3661	8	Bus, Bar	30			Marked "L"
12	526-0219	A/R	Washer, Flat (1/2)		098-5854-06	4	Marked "1"
13	851-0023	A/R	Washer, Spring (1/2)		098-5854-07	1	Marked "2"
14	332-3976-02	3	Housing, Terminal – Low Voltage Top Entry		098-5854-08	1	Marked "3"
15	337-3813	24	Bus, Bar – Low Voltage Top Entry		098-5854-09	1	Marked "0"
16	337-3673	12	Bus, Bar – Low Voltage Top Entry	31	508-0305-01	–	Edging – Bulk (Order by the Foot – 3 Feet Required)
17	800-2118	A/R	Screw, Cap – Hex Head (M12 x 1.75 x 60) (Not Shown)	32	098-5387	1	Label, Danger
18	406-1015	2	Handle, Door	33	800-2543-13	32	Screw, Cap – Hex Head (M12 x 1.75 x 80)
19	517-0136	2	Plug, Hole	34	517-0136	2	Plug, Hole – Low Voltage Top Entry
20	070-2002-02	2	Extrusion, Aluminum – Low Voltage Top Entry				

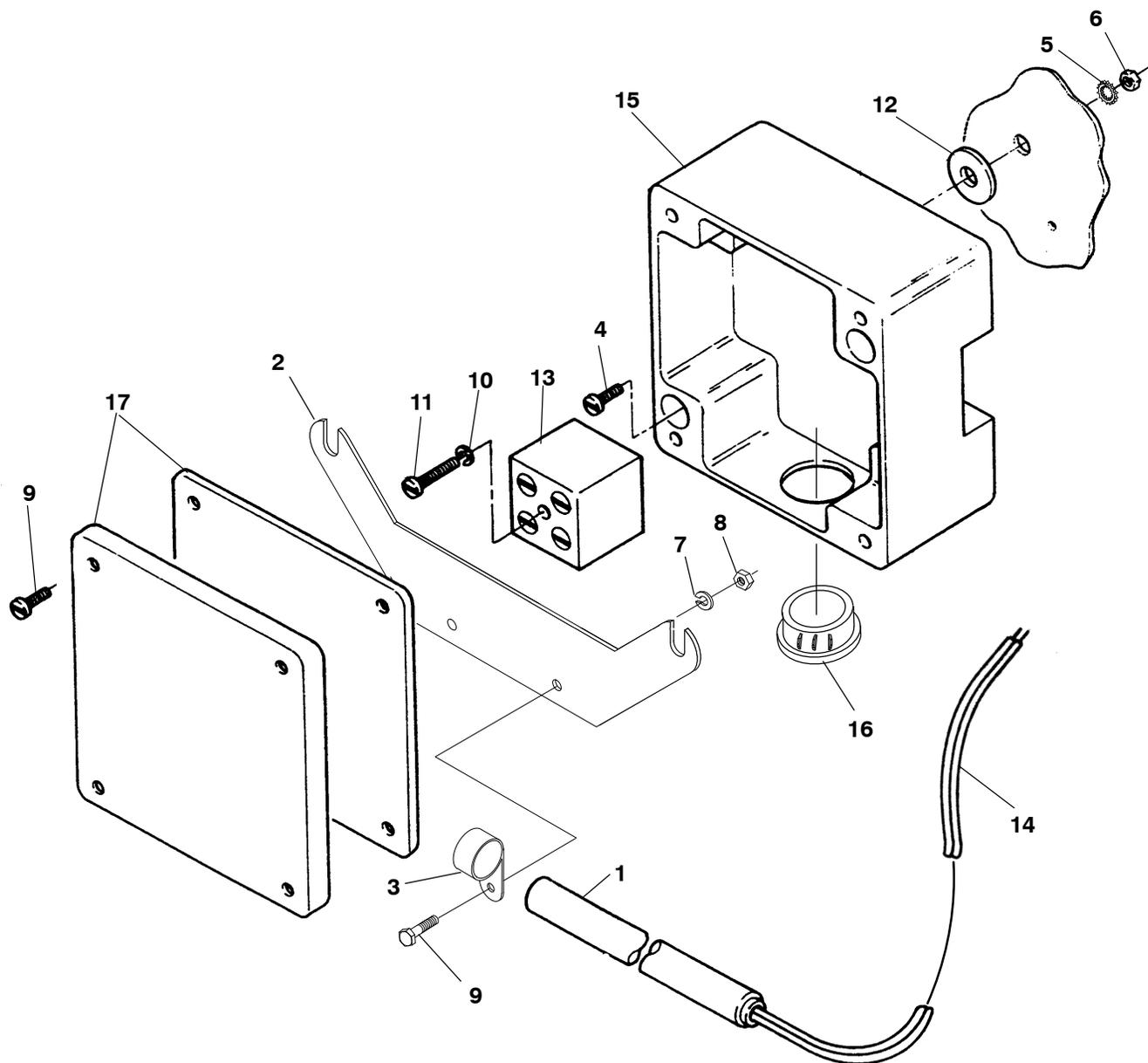
## Terminal Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3967-02	1	Housing, Terminal
2	332-3970-02	1	Housing, Terminal
3	332-3978-02	2	Housing, Terminal
4	821-6003-02	56	Screw, Hex Head (M8 x 1.25 x 20)
5	406-1015	2	Handle, Door
6	332-3990-02	2	Housing, Terminal
7	332-3969-02	1	Housing, Terminal
8	718-1076	16	Screw, Cap - Hex Head (M12 x 1.75 x 40)
9	526-0219	32	Washer, Flat (1/2)
10	750-1010	16	Nut, Hex (M12 x 1.75)
11	319-4363-02	1	Panel, Filler
12	870-2065-03	4	Nut, Hex - Flange (Not Shown)
13	332-4053	2	Insulator, Cable (Not Shown)
14	332-4059-02	1	Housing, Terminal - Duct (Not Shown)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	332-4058-02	1	Housing, Terminal - Duct (Not Shown)
16	332-4055-02	2	Housing, Terminal - Bracket (Not Shown)
17	070-2002-01	4	Extrusion, Aluminum (Not Shown)
18	517-0136	2	Plug, Hole
19	098-5387	1	Label, Danger
20	508-0305-01	-	Edging - Bulk (Order by the Foot - 3 Feet Required)
21	098-7902-04	1	Label, Logo (White)
22	098-8280	1	Label, Information
23	332-4062-02	1	Housing, Terminal (Right Side)
24	332-4063-02	1	Housing, Terminal (Left Side)
25	A030X518	1	Switch, Temperature (not shown)

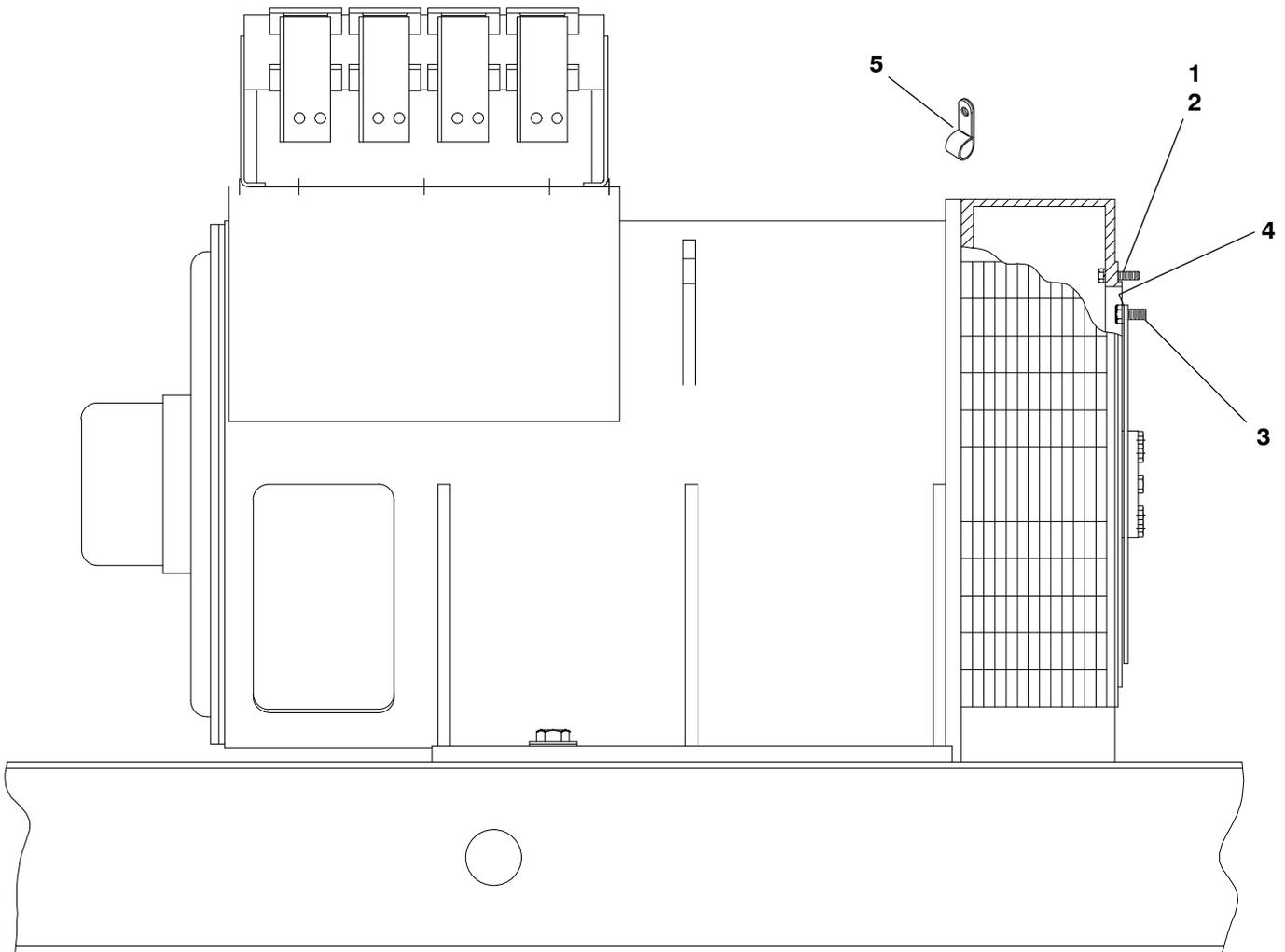
## Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-1416	1	* Kit Heater, Relay Cartridge, Heater (300 Watt) 120 Volt 240 Volt	10	850-2003	1	Washer, Lock - Spring (M3)
	333-0438-05	1		11	822-3047	1	Screw, Machine - Pan Head (M3 x 20mm)
	333-0438-06	1		12	508-0228	1	Grommet
2	232-3849	1	Bracket, Mounting - Heater	13	332-3023	1	Block, Terminal
3	332-3024-14	2	Clamp, Loop	14	A030F216	1	Sleeving - Heater Leads (59")
4	822-3075	6	Screw, Machine - Slotted Pan Head (M4 x 16mm)	15	330-0142	1	Box, Terminal
5	856-0021	2	Washer - W/EIT (M4)	16	517-0021	1	Plug, Dot Button
6	860-2005	2	Nut, Hex (M4)	17	330-0141-01	1	Cover Assy
7	850-2005	2	Washer, Lock - Spring (M5)			1	Cover, Box
8	860-2006	2	Nut, Hex (M5)			1	Gasket, Cover
9	800-2008	2	Screw, Cap - Hex Head (M5 x 16mm)				

\* - Available for failed units, models DQKAA and DQKAB. Not required for functioning units.

# Generator Installation



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0399-64	16	Washer, Flat	3	526-0416	12	Washer, Flat (5/8)
2	800-2543-07	16	Screw, Cap - Hex Head (M12 x 1.75 x 55)	4	805-2022	12	Bolt, Place
				5	332-3196	1	Clamp, "J"

## Generator

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

**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

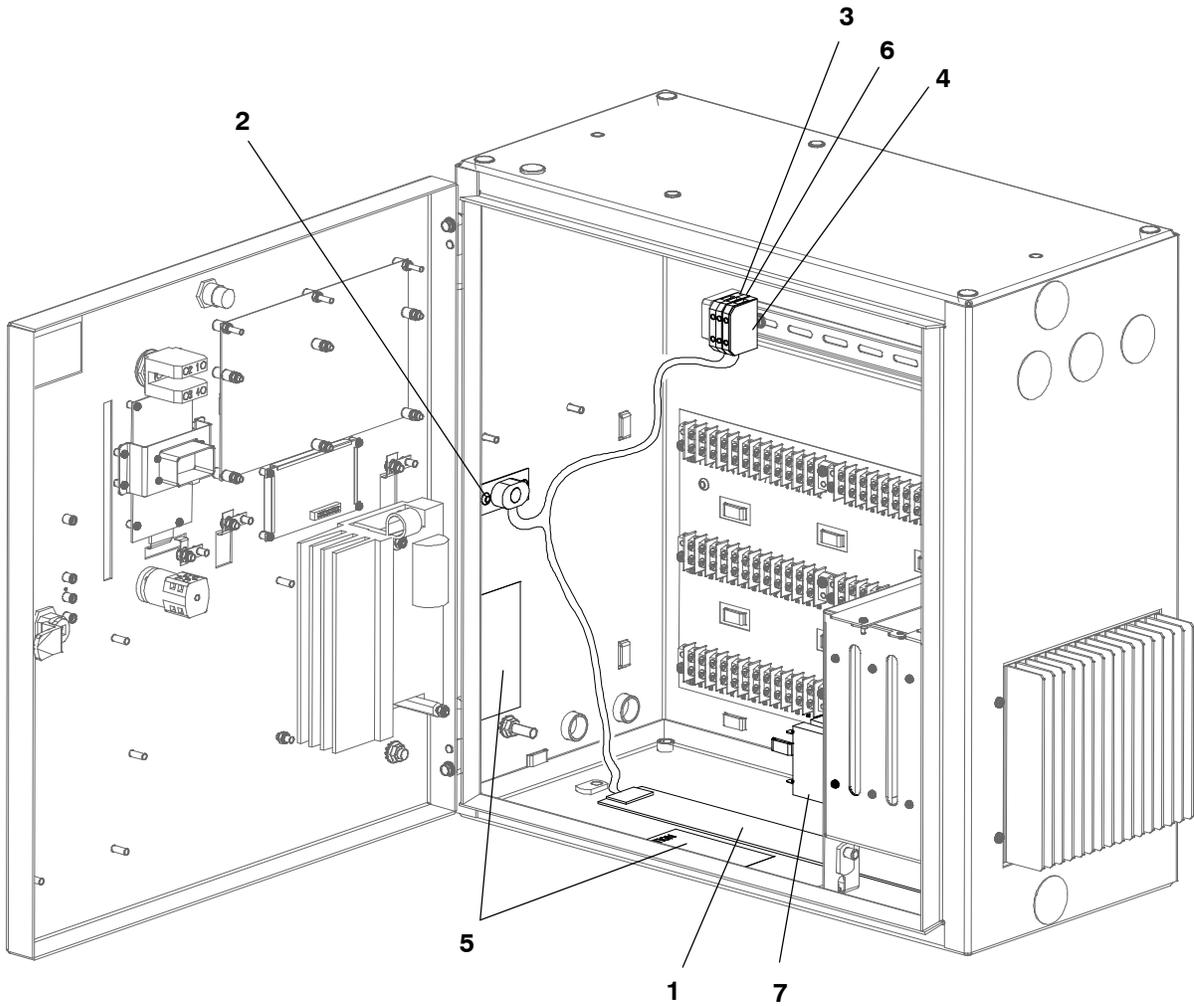
0541-1219 Alternator Kit for P80

<b>Cummins Inc. Identification Number</b>	<b>Generator Model Number or Frame/Core</b>
200-3095-01	P80R
200-3095-02	P80S
200-3095-04	P80R
200-3095-05	P80S
200-3095-08	P80S
200-3095-16	P80R
200-3095-17	P80S
200-3095-19	P80R
200-3095-20	P80S
200-3095-23	P80S
200-3095-76	P80T
200-3095-77	P80T
200-3117-04	P80R
200-3117-34	P80R
200-3117-35	P80S
200-3117-37	P80R
200-3117-38	P80S
<b>Continued...</b>	

## Generator

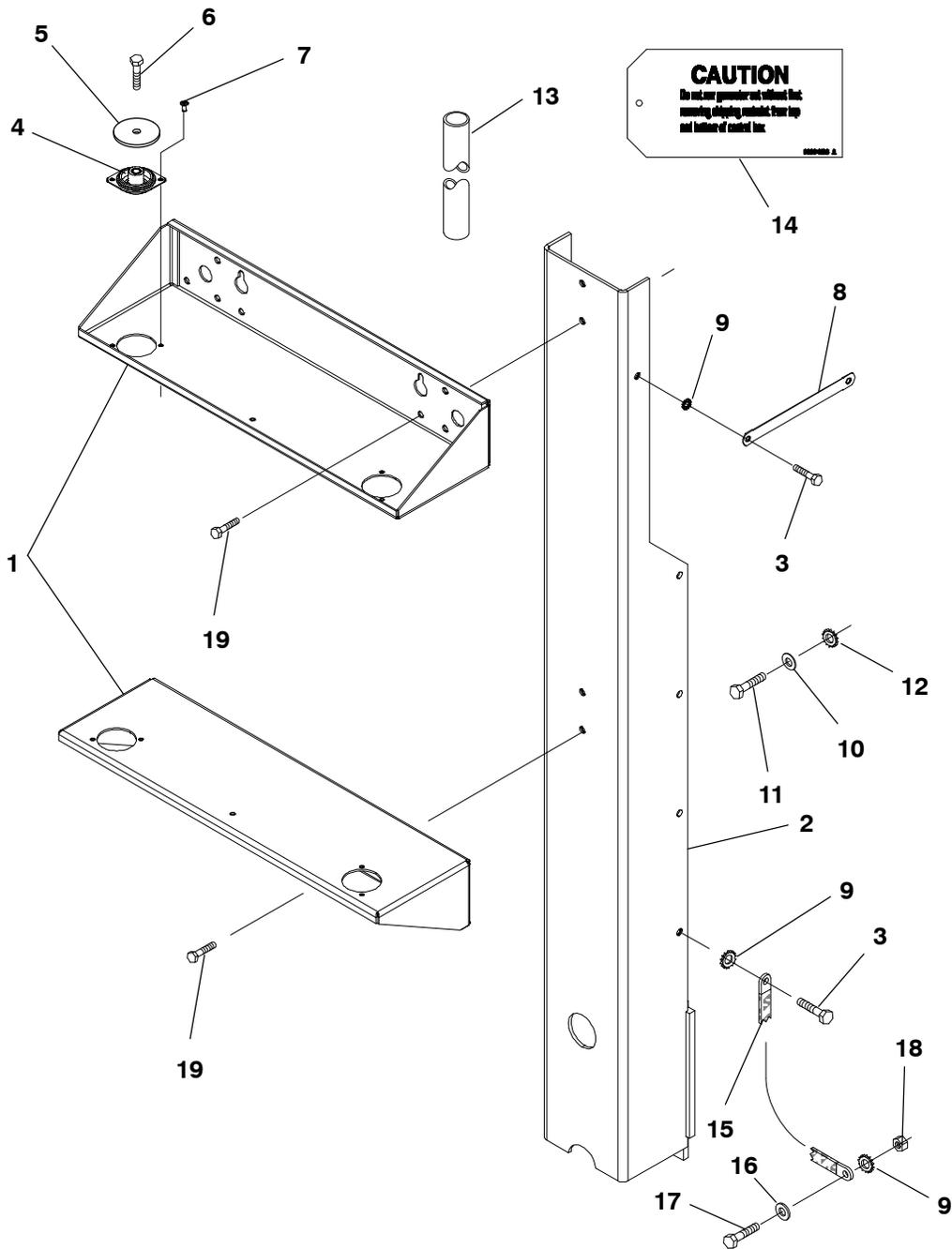
<b>Cummins Inc. Identification Number</b>	<b>Generator Model Number or Frame/Core</b>
<b>Continued...</b>	
200-3117-39	P80T
200-3117-46	P80T
200-3117-47	P80T
200-3128-03	P7D
200-3128-04	P7E
200-3128-05	P7F
200-3128-06	P7G
200-3128-09	P7D
200-3128-10	P7E
200-3128-11	P7F
200-3128-12	P7G
200-3128-21	P7D
200-3128-22	P7E
200-3128-23	P7F
200-3128-24	P7G
200-3128-27	P7D
200-3128-28	P7E
200-3128-29	P7F
200-3128-30	P7G
200-3128-58	P7E
200-3132-08	MV734H
200-3180-34	MVSI804R1
200-3180-64	HVSI804R1
200-3180-67	HVSI804R1
200-3180-76	LVSI804T1
200-3180-77	LVSI804T1
200-3180-78	MVSI804T1
200-3180-79	HVSI804T1

## Control Heater (Spec A-D)



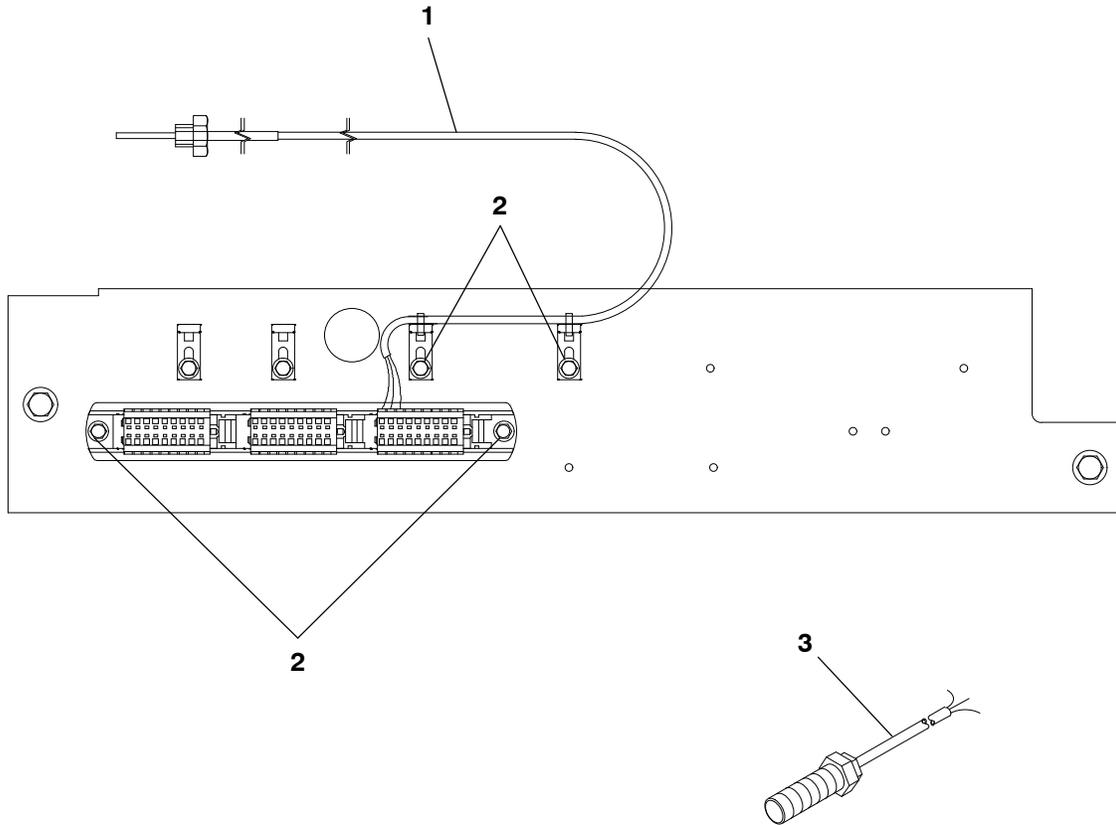
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assembly, Control - 150 Watt	3	332-3125-01	2	Block, Terminal
	333-0645-01	1	120 Volt	4	332-3126-01	1	Endplate, Terminal
	333-0645-02	1	240 Volt	5	098-6195	2	Label, Caution
2	818-1150-02	2	Rivet, Drive	6	332-4002	1	Block, Terminal - Ground
				7	307-2968-04	3	Relay, Power (K14, K15 and K20)

## Control Box Installation (Spec A-D)



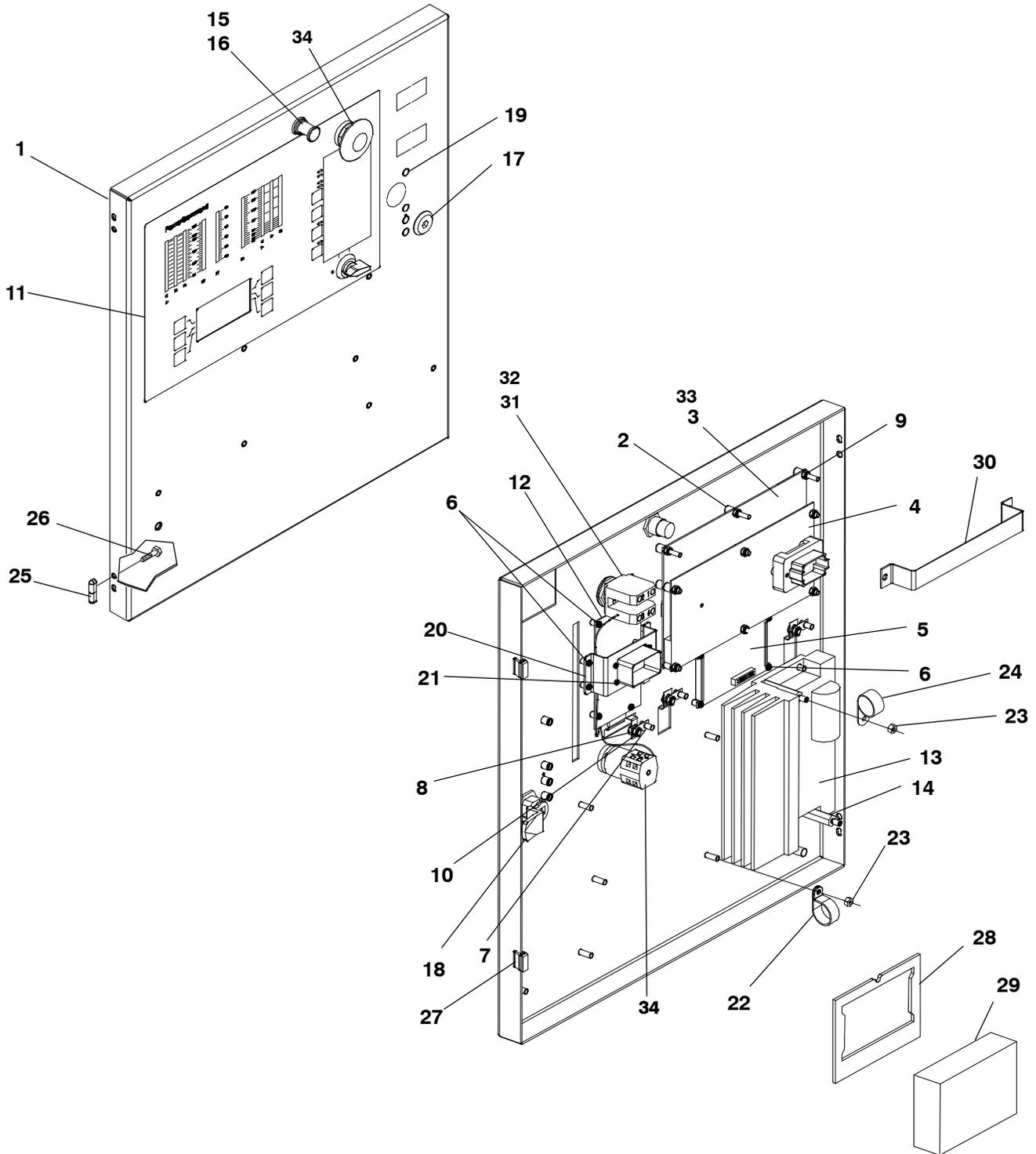
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6136-02	2	Bracket, Control	11	800-3017-41	4	Screw, Cap – Hex Head (M10 x 1.5 x 45)
2	319-6137-02	2	Bracket, Control	12	870-2056	4	Nut, Lock – Flange (M10 x 1.5)
3	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)	13	503-1418	2	Hose, Fuel
4	402-0666-01	4	Isolator, Vibration	14	A041S508	1	Label, Caution
5	526-0324	4	Washer, Flat (3/8)	15	337-3466-01	1	Strap, Bond
6	815-0776	4	Screw, Hex – Flange Head (M8 x 1.25 x 45)	16	526-2100	1	Washer, Flat (M8)
7	818-0231-02	8	Rivet, Pop	17	800-2060	1	Screw, Cap – Hex Head (M8 x 1.25 x 35)
8	337-0049	1	Strap, Bond	18	870-2055	1	Nut, Locking – Flange (M8 x 1.25)
9	853-2008	4	Washer, Lock – W/ET (M8)	19	821-6004-01	8	Screw, Hex Head (M10 x 1.5 x 20)
10	526-0128	2	Washer, Flat				

## Resistive Temperature Detectors



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Detectors, Resistive Detectors - Package - P7	2			Screw, Cap - Hex Head - P7
	179-3696-01	1	Without Mounting Plate	3	821-6001-03	3	Screw, Hex head
	179-3696-02	1	With Mounting Plate	3	193-0458-02	1	Detector, Temperature - Frame 8

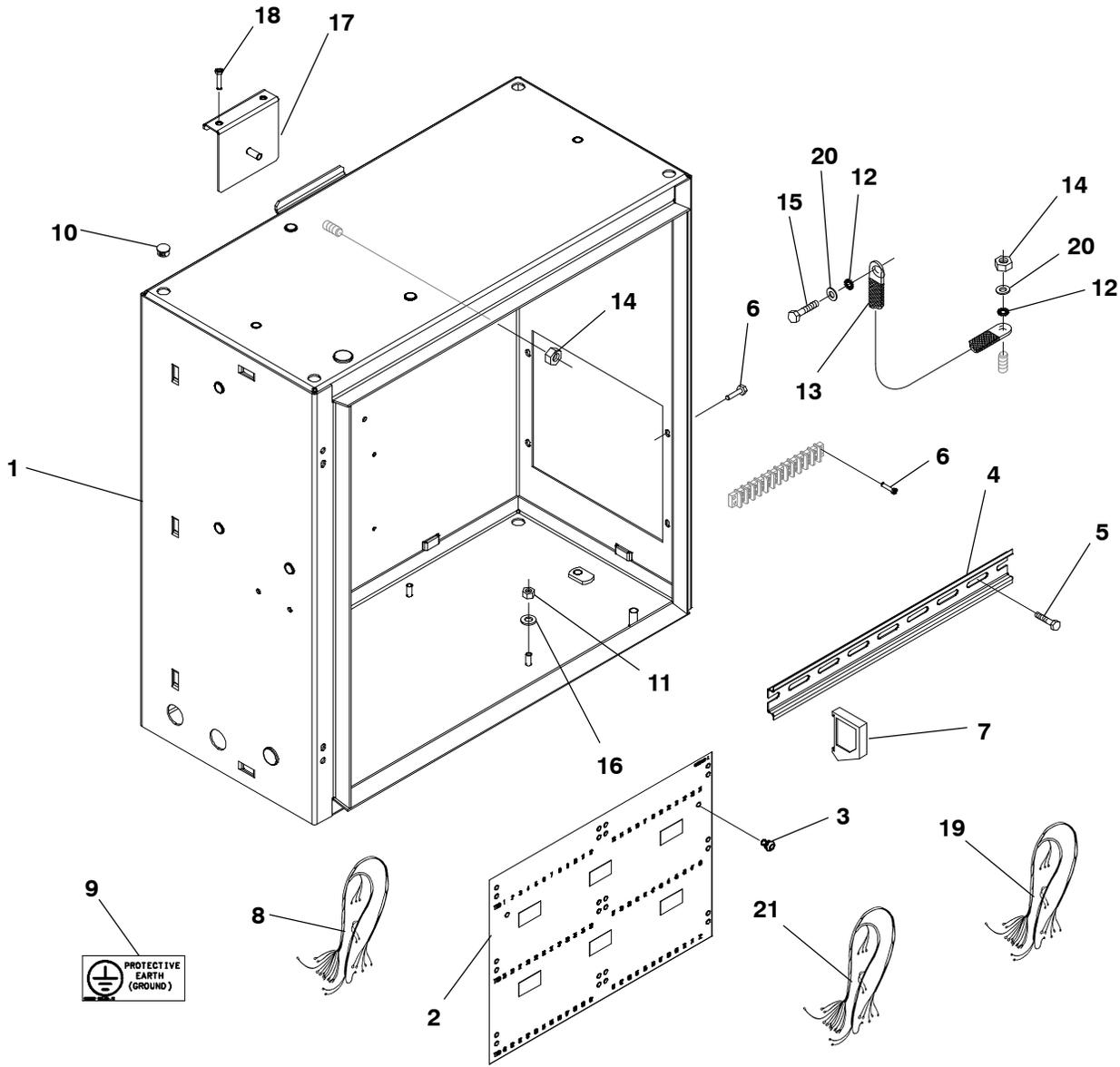
# Control Door (Spec A-D)



## Control Door (Spec A-D)

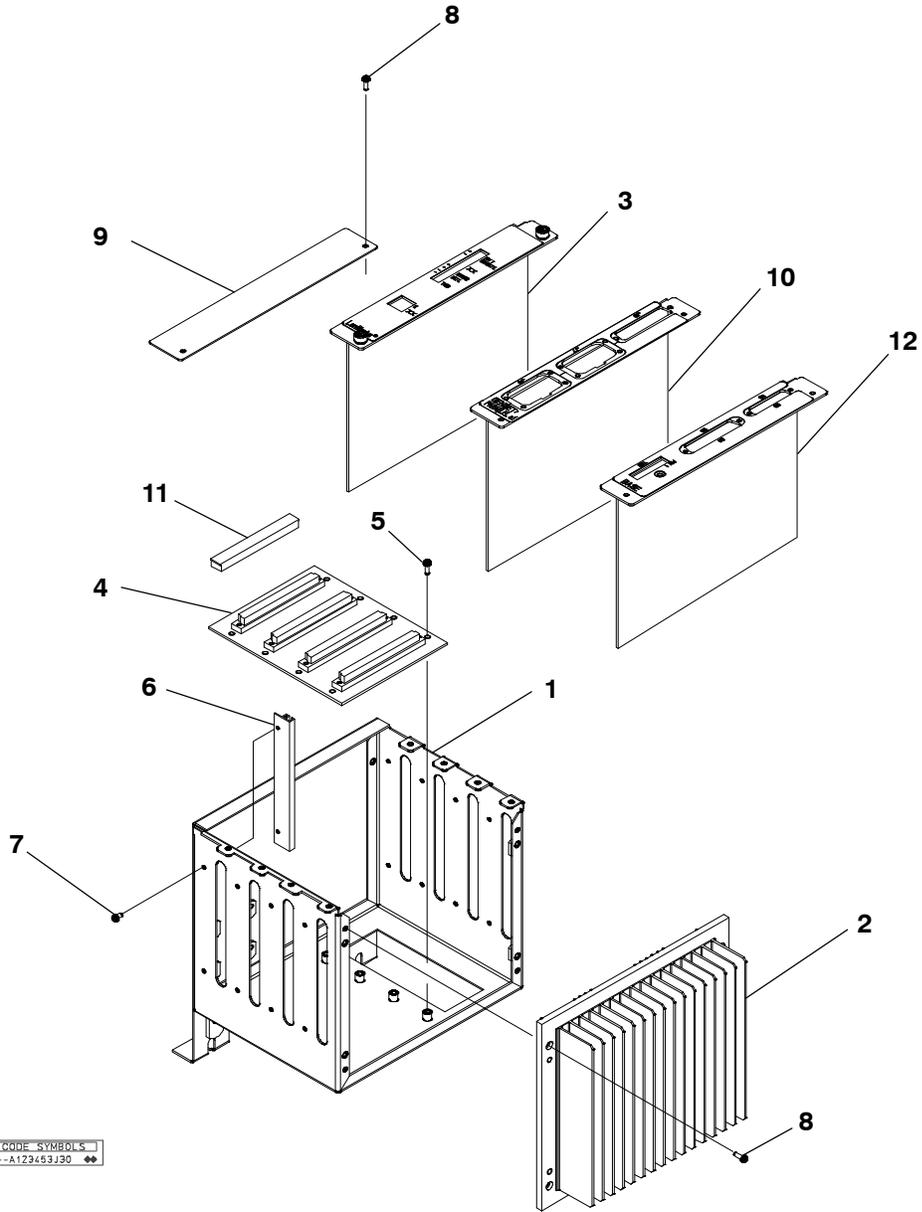
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5018-02	1	Door, Control Box	20	319-4918-02	1	Bracket, Printed Circuit Board
2	332-1911	15	Spacer, LED	21	815-0796	4	Screw, Pan Head - Thread Cutting (4-24 x 5/16)
3	300-5180	1	Board, Printed Circuit - Bargraph	22	425-1799	2	Clamp, Cable
4	300-5179	1	Board, Printed Circuit - Operator Panel - Digital	23	870-2062	4	Nut, Nylon - Lock (M5)
5	326-0230	1	Display, Digital	24	332-0052	1	Clip, Wire
6	823-0001-01	12	Screw, Pan Head - Thread Forming (M3 x 0.5 x 6)	25	406-0810	2	Hinge, Block
7	526-2303	1	Washer, Double Hole	26	821-6001-01	4	Screw, Hex Head (M5 x 0.8 x 10)
8	860-2006	3	Nut, Hex (M5 x .8)	27	508-1186	2	Bumper
9	870-2064-01	9	Nut, Nyloc (M4)	28	405-7779	1	Gasket, Enclosure
10	870-2062	3	Nut, Nylon - Lock (M5)	29	319-5194	1	Cover, Printed Circuit Board
11	300-5685-01	1	Display, Control	30	319-5193	1	Bracket, Control
12	300-5181	1	Board, Printed Circuit - Software Panel	31	A035H895	1	Harness, Switch
13	300-4306	1	Regulator, Auto Voltage	32	A035H893	1	Switch, Pushbutton
14	872-0019-01	2	Standoff	33	A029R718	1	Harness, Control
15	A052Y984	1	Light, Panel	34	338-4649-01	1	Harness, Control (Parts Below Included )
16	322-0017	1	Lamp, Panel		323-1839	1	Connector, Six Pin
17	406-0930	1	Latch, Door (1/4 Turn)		308-1688	1	Socket, Terminal
18	406-0932-02	1	Latch, Cam (Single Point)		308-1085	1	Switch, Selector
19	322-0488	4	Lens, LED		308-1182	1	Switch, Pushbutton

## Control Box (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A043M148	1	Box, Control	11	870-2062	2	Nut, Nylon - Lock (M5)
2	098-8121	1	Label, Information	12	853-2008	2	Washer, Lock - W/ET (M8)
3	818-1150-02	2	Rivet, Drive	13	337-0049	1	Strap, Ground
4	A029D229	1	Rail, Terminal	14	870-2055	2	Nut, Lock - Flange (M8)
5	815-0793-02	2	Screw, Flange Head (M5 x 0.8 x 10)	15	821-2045	1	Screw, Locking - Flange (M8 x 1.25 x 16)
6	823-0002-05	24	Screw, Pan Head - Torx - Thread Forming (M4 x 0.7 x 14)	16	526-0008	2	Washer, Flat (M5)
7	332-2878	2	Block, Terminal	17	319-5135-02	1	Bracket, Cable
8	338-4315	1	Harness, Lonworks	18	819-1157	2	Screw, Pan Head - Cross Recessed (M6 x 1 x 50)
9	098-6635	1	Label, Ground	19	A029R718	1	Control, Harness
10	517-0133	8	Plug, Hole	20	526-0115	2	Washer, Flat
				21	338-4363	1	Harness, Meter

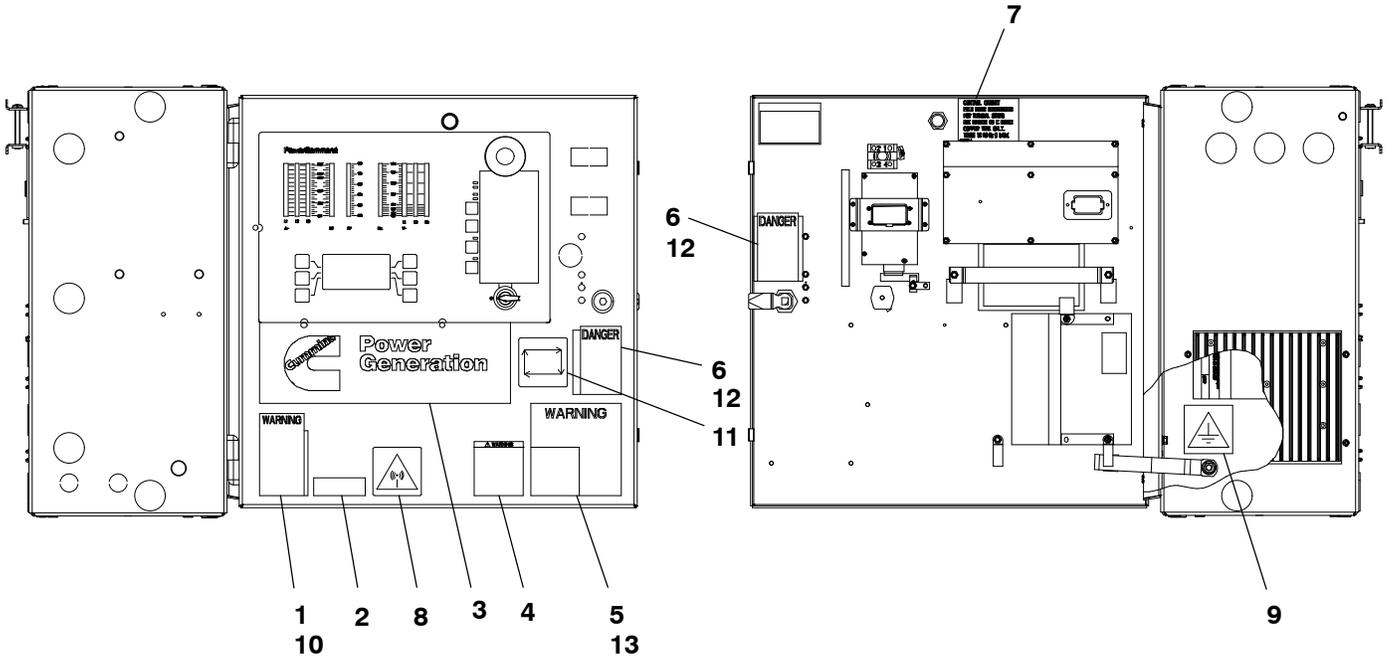
## Card Cage (Spec A-D)



CODE 39 BAR CODE SYMBOLS  
 ♦♦ xxx-xxx-xx--A12945J30 ♦♦

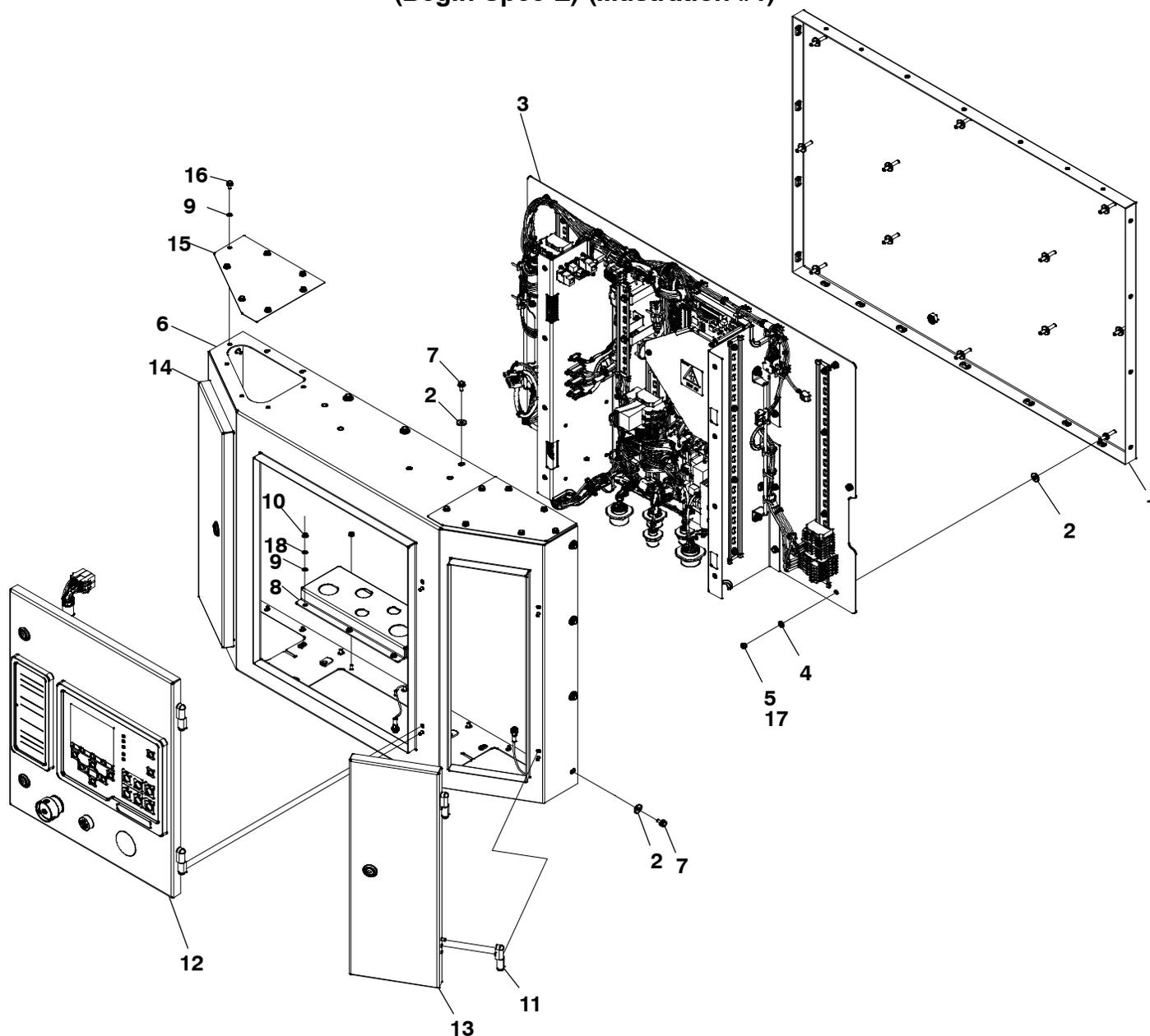
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5096-02	1	Frame, Cabinet	10			Board, Printed Circuit – Parallel Genset
2	363-0183	1	Heatsink, Genset		327-1376-01	1	Full Feature (Supports PTC Power Transfer Control) (Marked #2)
3	541-0809	1	Board, Printed Circuit – NCM		327-1376-02	1	Depop Feature (PTC Power Transfer Control Not Supported)(Marked #1)
4	327-1390	1	Board, Printed Circuit – Backplane	11	323-1848	2	Cover, 96-Pin Header
5	815-0948	8	Screw, Torq (M4 x 6)	12	327-1392	1	Board, Printed Circuit – Genset Base
6	406-0916	4	Left Side				
	406-0917	4	Right Side				
7	815-0949	16	Screw (4-40 x 1/4)				
8	815-0947	8	Screw (M3 x 10)				
9	319-5079	2	Cover, Control – Blank				

## Control Cabinet Labels (Spec A-D)



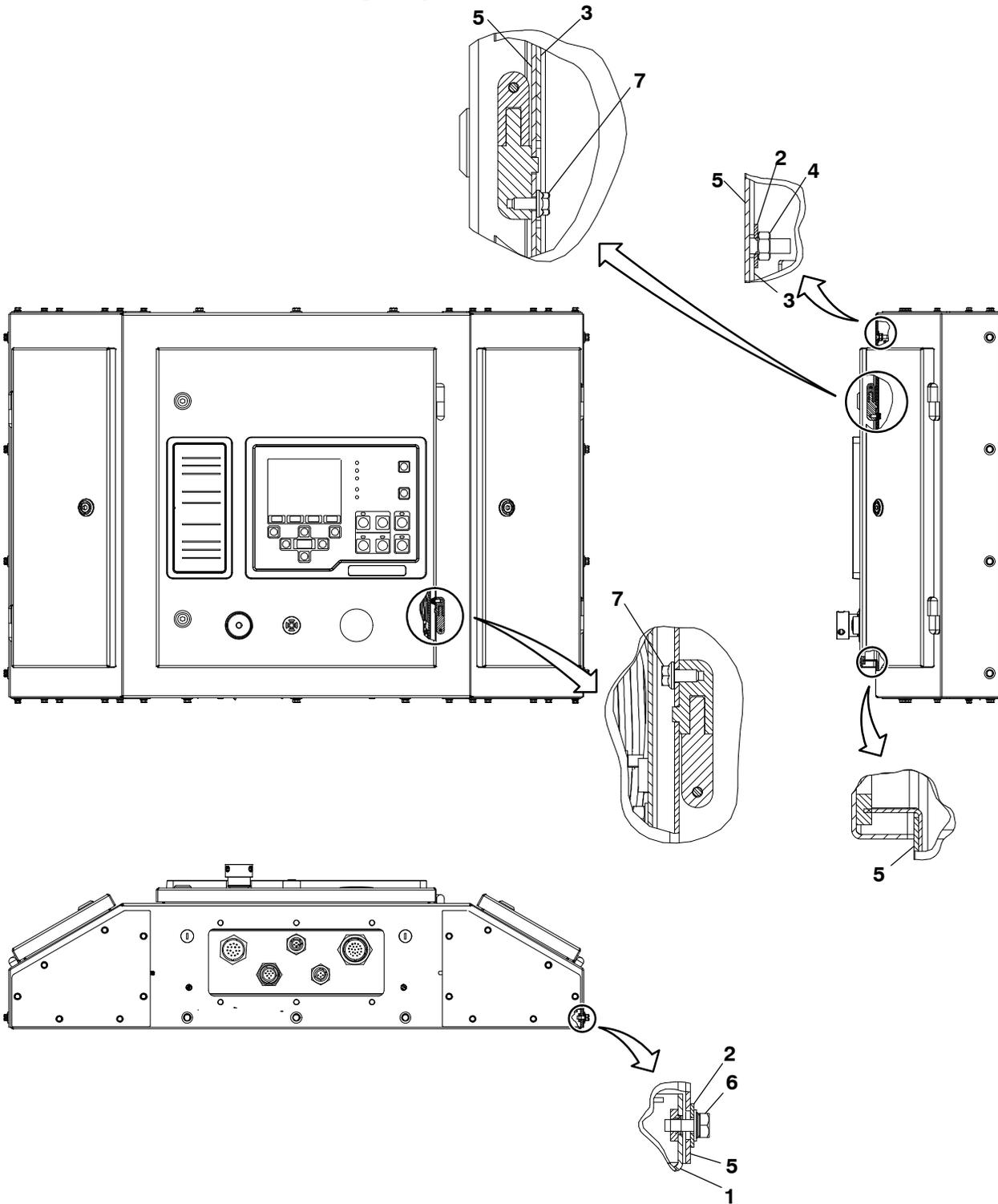
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-6074-02	1	Label, Warning	13			Label, Warning
2	098-6118	1	Label, Cabinet	098-8104-01	1		380 Volts AC
3	098-7902-03	1	Label, Logo (White)	098-8104-02	1		400 Volts AC
4	098-5759	1	Label, Warning	098-8104-03	1		415 Volts AC
5	098-4732	1	Label, Warning	098-8104-04	1		440 Volts AC
6	098-5387	2	Label, Danger	098-8104-05	1		480 Volts AC
7	098-8143	1	Label, Information	098-8104-06	1		600 Volts AC
8	098-8093	1	Label, Caution	098-8104-07	1		3300 Volts AC
9	098-8097	1	Label, Information	098-8104-08	1		4160 Volts AC
10	098-8098	1	Label, Instruction	098-8104-09	1		6000 Volts AC
11	098-8099	1	Label, Danger	098-8104-10	1		6300 Volts AC
12	098-8100	1	Label, Warning	098-8104-11	1		6600 Volts AC
				098-8104-12	1		7200 Volts AC
				098-8104-13	1		10000 Volts AC
				098-8104-14	1		10500 Volts AC
				098-8104-15	1		11000 Volts AC
				098-8104-16	1		11400 Volts AC
				098-8104-17	1		12470 Volts AC
				098-8104-18	1		13200 Volts AC
				098-8104-19	1		13800 Volts AC

## Control Box (Begin Spec E) (Illustration #1)



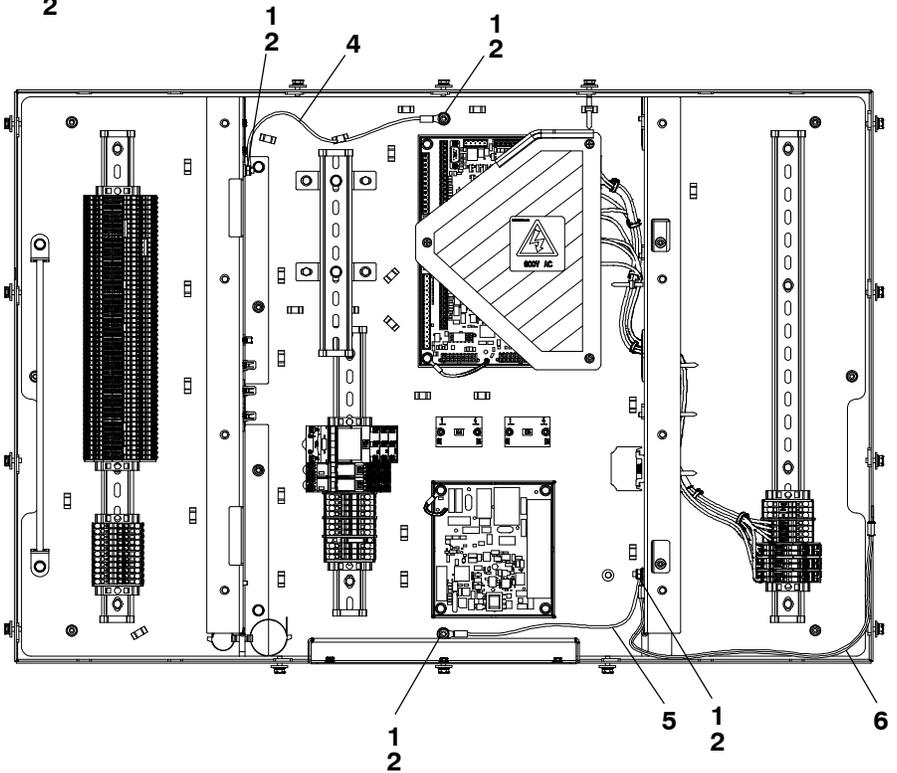
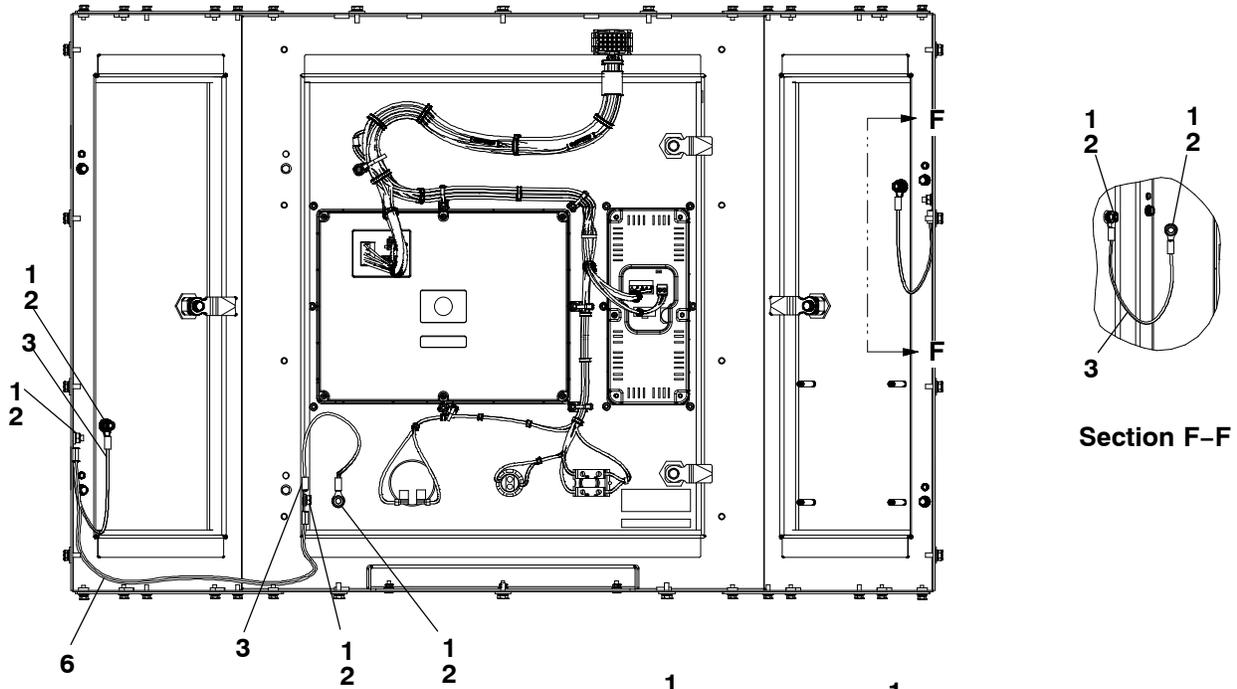
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A050H671	1	Box, Control	11	0406-0810	6	Hinge
2	0526-0399-5934		Washer, Flat	12	A053L594	1	Installation, Door (See Page 79 for Components)
3	A053N287	1	Panel, Ancillaries (See Page 68 for Components)	13	A052C354	1	Installation, Door (See Page 81 for Components)
4	0526-0399-5820		Washer, Flat	14	A050S974	1	Installation, Door (See Page 82 for Components)
5	0862-0026-5428		Nut, Hex	15	A049Z139	4	Plate, Cable Gland
6	A050H668	1	Panel, Control	16	0821-6001-0128	28	Screw, Hex Head
7	0821-6002-0214		Screw, Hex Head	17	A052J735	12	Sleeve, Heat Shrink
8	A050J125	1	Plate, Cable Gland	18	0526-0399-54	6	Washer, Flat
9	0853-0040-53	5	Washer, Lock				
10	0862-0026-52	6	Nut, Flange Hex				

### Control Box (Begin Spec E) (Illustration #2)



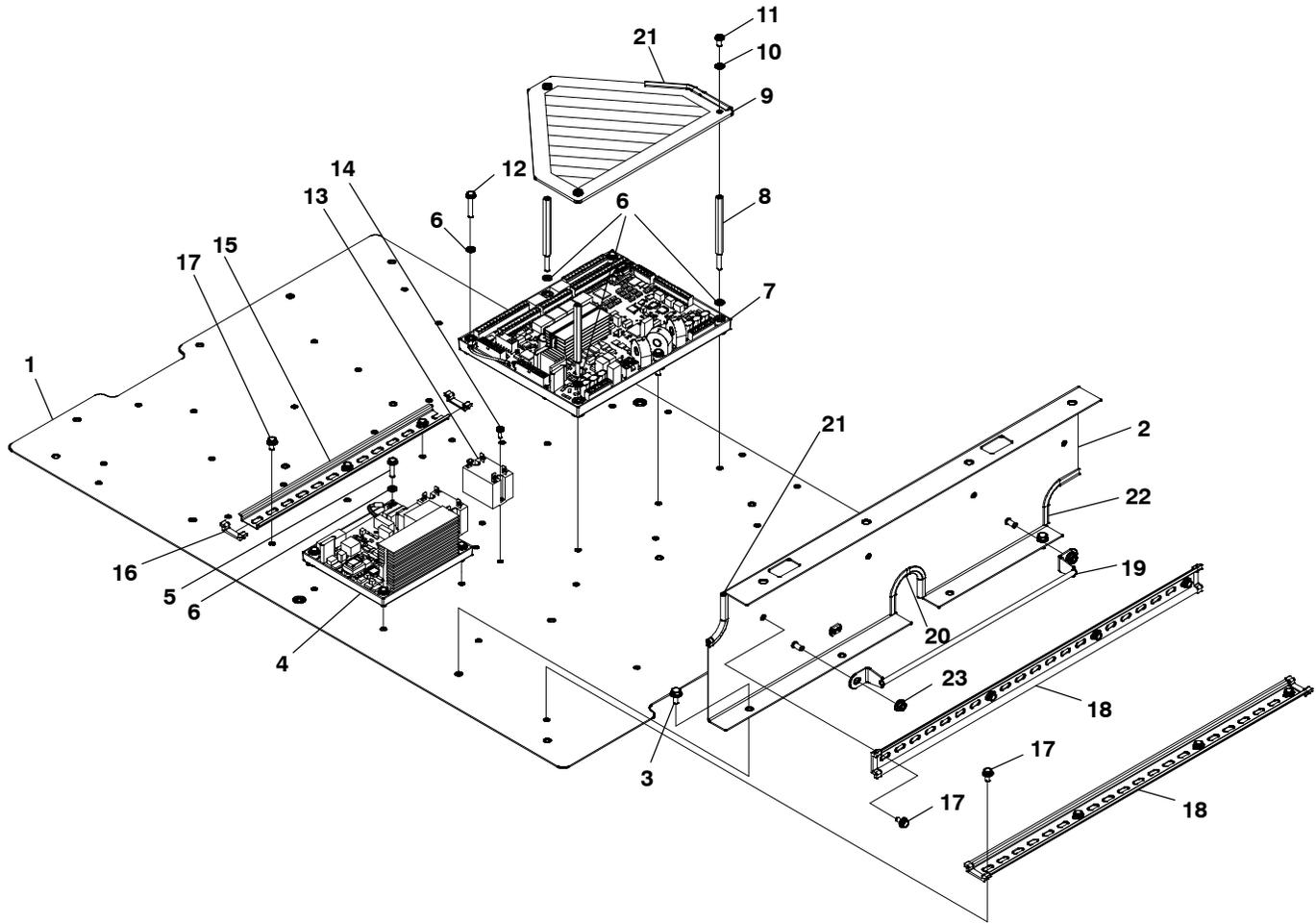
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A050H671	1	Box, Control	5	A050H668	1	Panel, Control
2	0526-0399-5934		Washer, Flat	6	0821-6002-0214		Screw, Hex Head
3	A053N287	1	Panel, Ancillaries	7	0821-2020	12	Screw, Flange Head Lock
4	0862-0026-5427		Nut, Hex				

## Control Box (Begin Spec E) (Illustration #3)



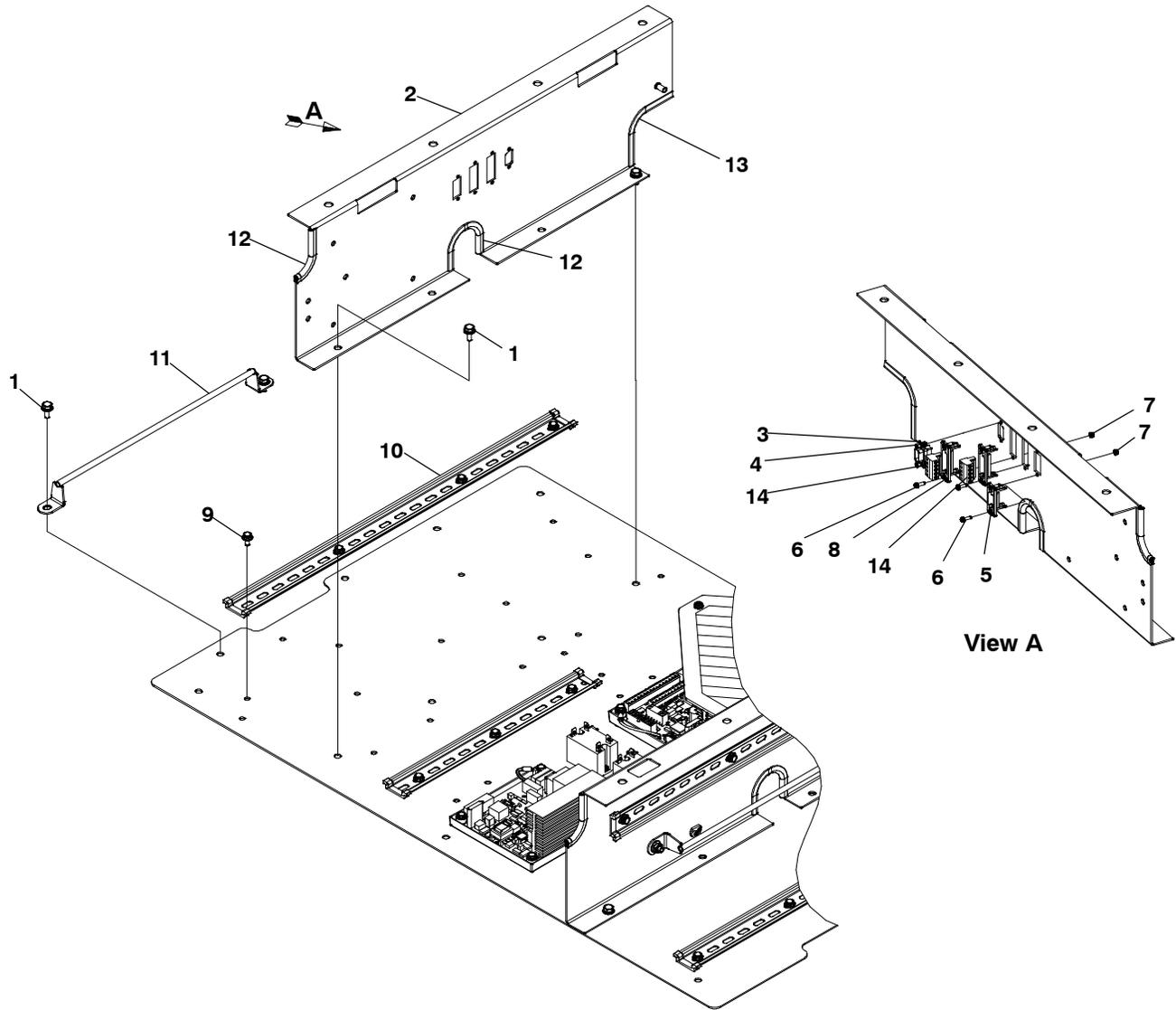
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0526-0399-58 19		Washer, Flat	4	A050Y666	1	Strap, Ground
2	0862-0026-54 27		Nut, Hex	5	A050Y667	1	Strap, Ground
3	A050Y363	3	Strap, Ground	6	A061J406	1	Strap, Ground

## Ancillaries Panel (Begin Spec E) (Illustration #1)



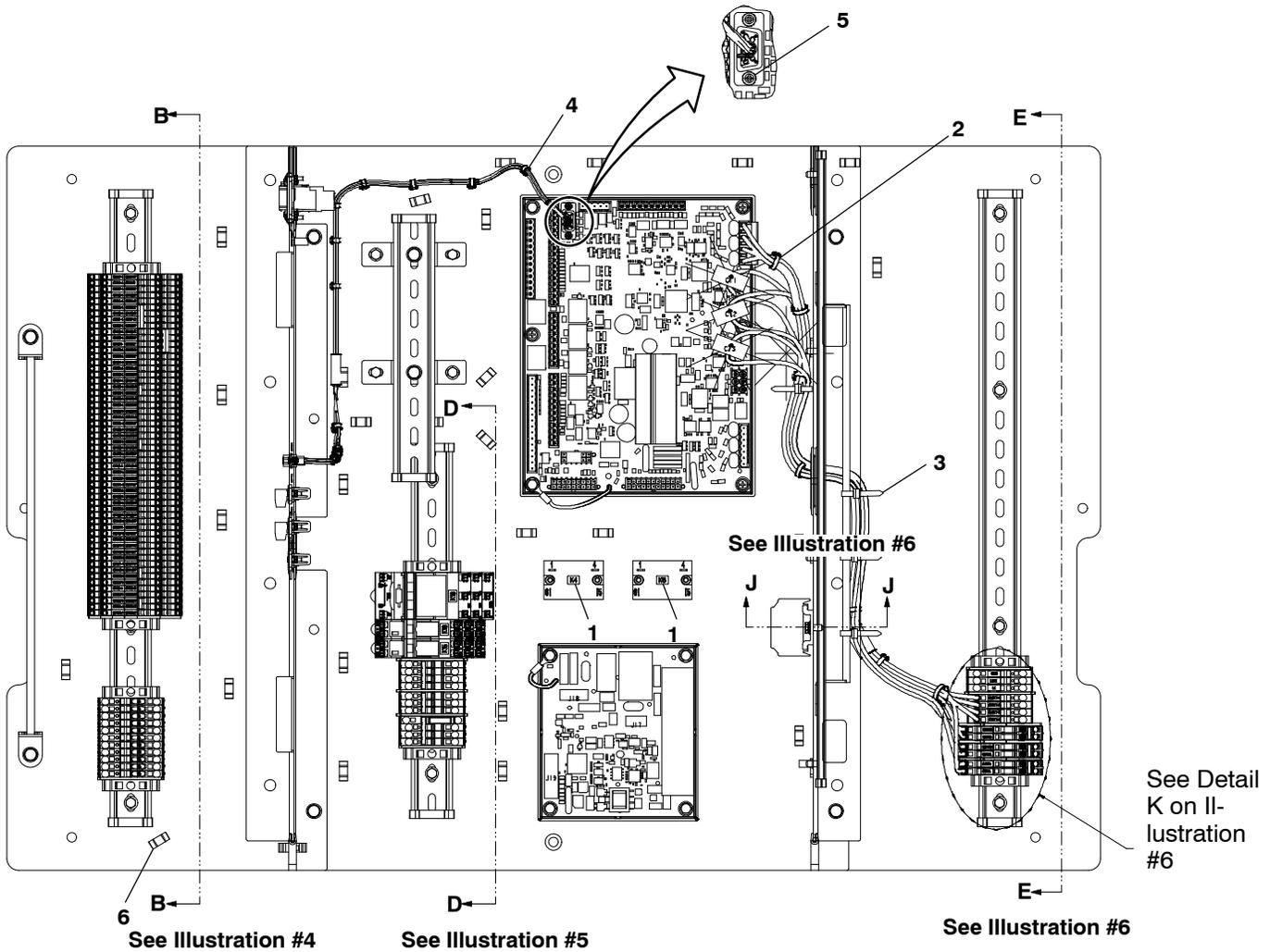
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A053N282	1	Panel, Control	13	0307-2968-04	2	Relay, Power
2	A053S186	1	Panel, Control	14	0823-1001-03	4	Screw, Pan Head
3	0821-6002-02	6	Screw, Hex Head	15	A040G391	1	Rail, Terminal Block
4	0327-1593	1	Card, Control	16	A047X228	4	Cap, Plastic End
5	0815-0793-05	4	Screw, Hex Flange Head	17	0821-2020	17	Screw, Flange Head Lock
6	0526-2060	5	Washer, Flat	18	A050G596	3	Block, Terminal
7	A051L545	1	Card, Control	19	A050L297	2	Support, Cable
8	A026M891	3	Standoff	20	A051X663	2	Edging
9	A026M929	1	Cover	21	A051X497	4	Edging
10	0526-0399-56	3	Washer, Flat	22	A051X662	1	Edging
11	0819-1154	3	Screw, Pan Head	23	0870-2065-02	2	Nut, Hex Flange
12	0815-0793-07	3	Screw, Hex Flange Head				

## Ancillaries Panel (Begin Spec E) (Illustration #2)



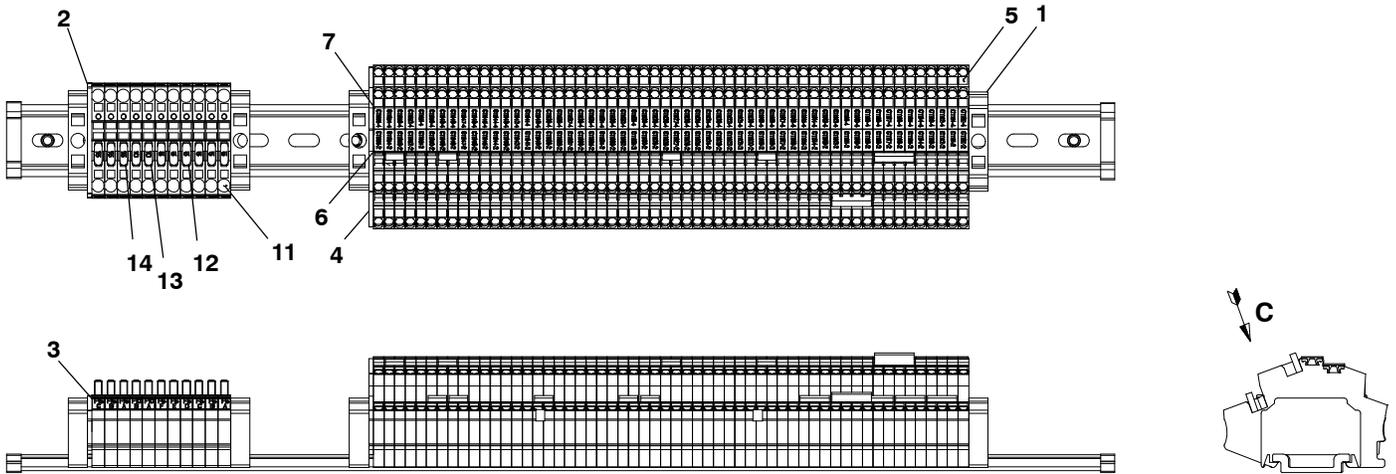
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0821-6002-02	6	Screw, Hex Head	8	A051M978	2	Bracket, Mounting
2	A053N276	1	Panel, Control	9	0821-2020	17	Screw, Flange Head Lock
3	A028X648	1	Connector, Cable	10	A050G596	3	Block, Terminal
4	A046W180	2	Screw, Flange Head Lock	11	A050L297	2	Support, Cable
5	A051M976	1	Bracket, Mounting	12	A051X663	2	Edging
6	0815-0947	6	Screw	13	A051X497	4	Edging
7	0860-2053	6	Nut	14	0323-2192-04	2	Connector, Plug

### Ancillaries Panel (Begin Spec E) (Illustration #3)

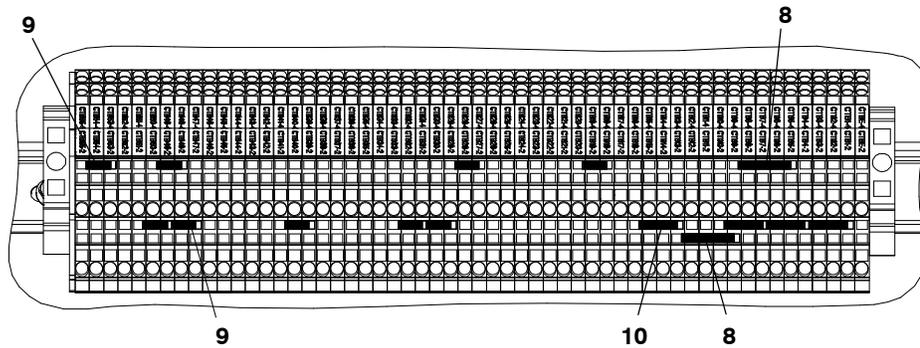


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A050K059	1	Label, Switch	4	A051A415	1	Harness, Wiring
2	A050J230	1	Harness, Wiring	5	0815-0949	2	Screw, Pan Head
3	0332-1389	37	Tie, Cable	6	0332-4106	32	Base, Cable Tie

## Ancillaries Panel (Begin Spec E) (Illustration #4)



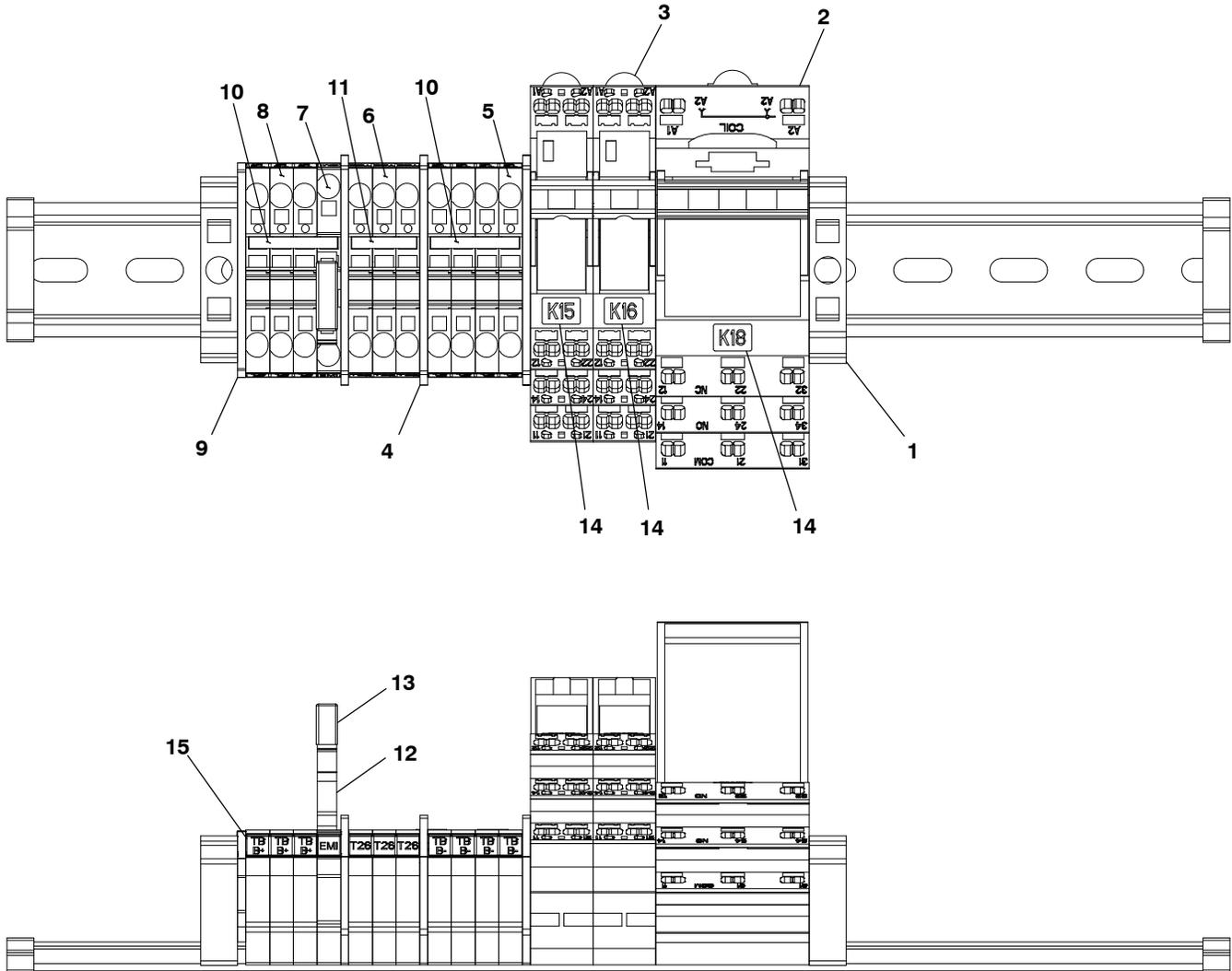
**Section B-B From Illustration #3**



**View from Arrow 'C'**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-4320	10	Block, Terminal	8	A030V501	2	Block, Terminal
2	A050B150	3	Block, Terminal	9	A040K491	9	Jumper, Terminal
3	A050L067	1	Tag, Terminal	10	A030V471	4	Block, Terminal
4	A049S842	1	Cover	11	A049S817	11	Holder, Fuse
5	A049S839	56	Block, Terminal	12	0321-0321-04	6	Fuse, Fast
6	A050K510	1	Tag, Terminal	13	0321-0321-06	2	Fuse, Fast
7	A050K512	1	Tag, Terminal	14	0321-0321-07	3	Fuse, Fast

## Ancillaries Panel (Begin Spec E) (Illustration #5)

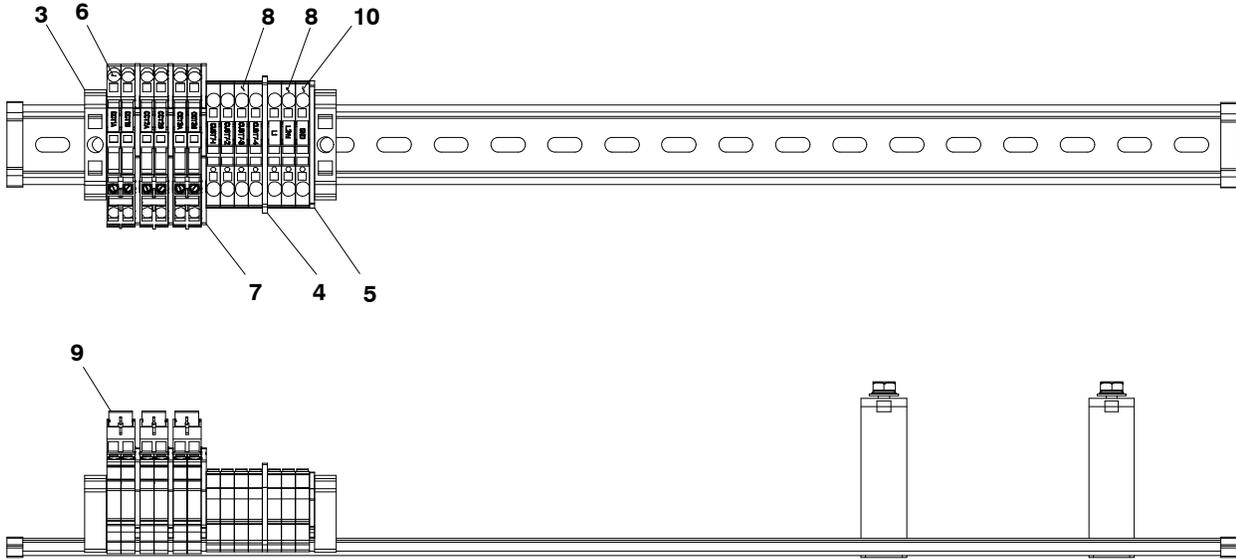


**Section D-D From Illustration #3**

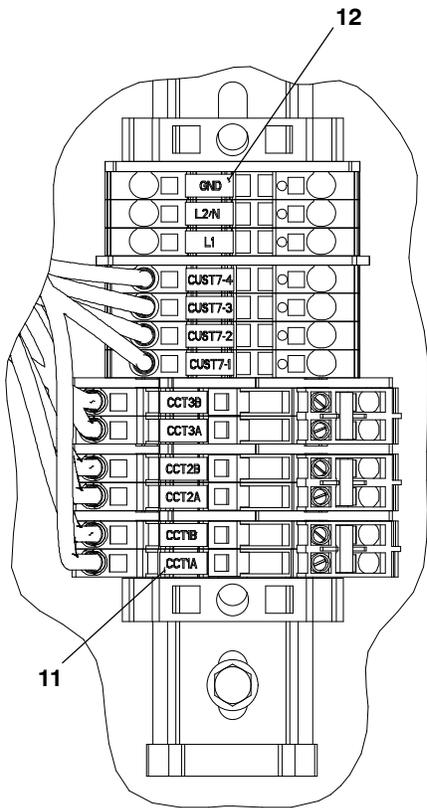
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-4320	10	Block, Terminal	9	A050B150	3	Block, Terminal
2	A049S834	1	Module, Relay	10	A040F385	2	Jumper, Terminal
3	A049S801	2	Module, Relay	11	A045U143	1	Jumper, Terminal
4	A049S832	4	Block, Terminal	12	A050E781	1	Block, Contact
5	A049S818	4	Block, Terminal	13	A050E971	1	Capacitor, Polypropylene
6	A049S819	3	Block, Terminal	14	A050K059	1	Label, Switch
7	A050E761	1	Block, Terminal	15	A050L067	1	Tag, Terminal
8	A049S820	3	Block, Terminal				

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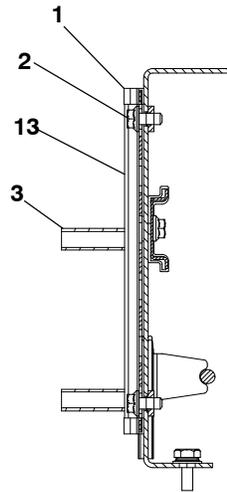
**Ancillaries Panel (Begin Spec E) (Illustration #6)**



**Section E-E From Illustration #3**



**Detail K From Illustration #3**

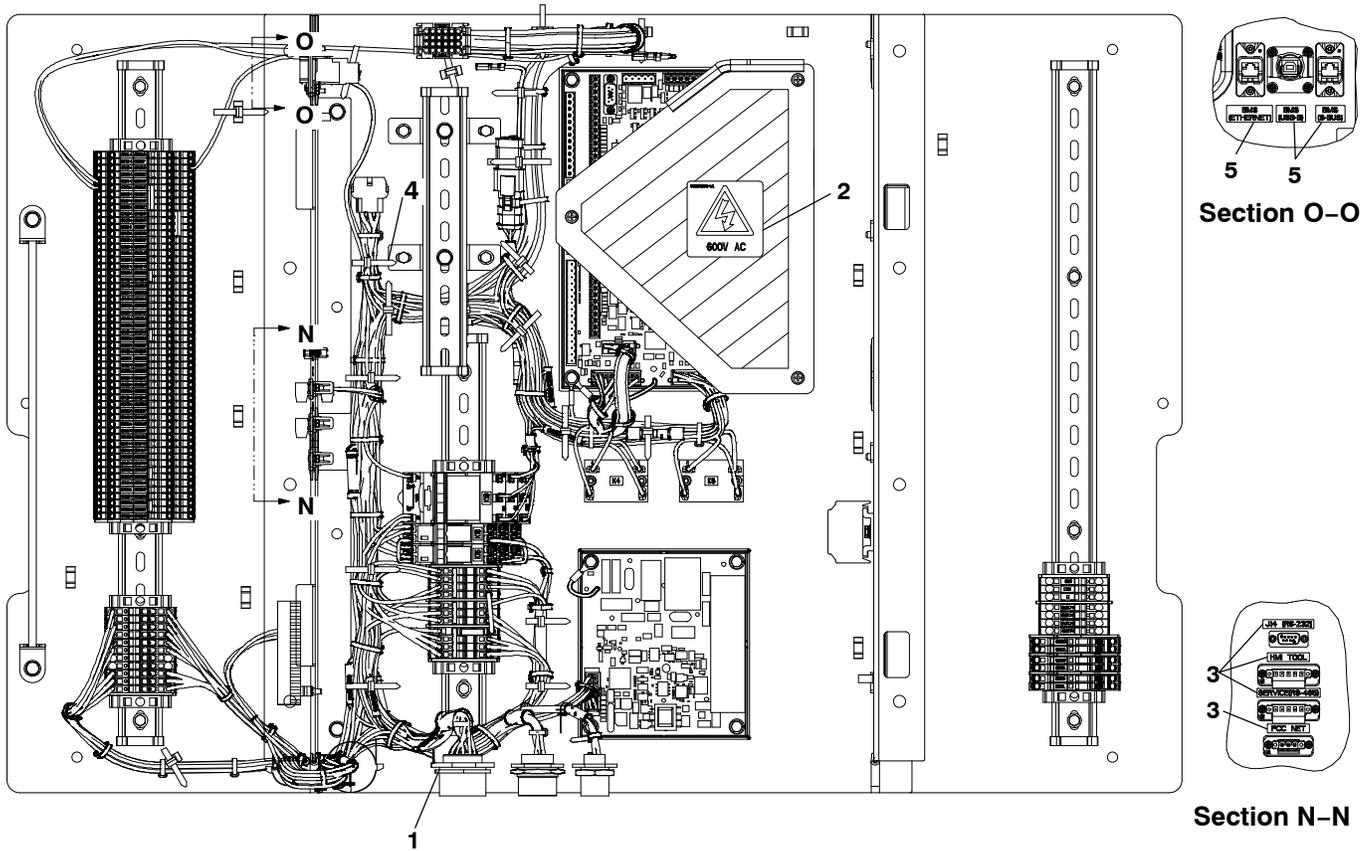


**Section J-J From Illustration #3**

## Ancillaries Panel (Begin Spec E) (Illustration #6)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A047X228	6	Cap, Plastic End	8	A050B135	6	Block, Terminal
2	0821-2020	21	Screw, Flange Head Lock	9	A050B132	3	Block, Terminal
3	0332-4320	10	Block, Terminal	10	A050B144	1	Block, Terminal
4	A049S832	4	Block, Terminal	11	A050U549	1	Tag, Terminal
5	A050B150	3	Block, Terminal	12	A051C184	1	Tag, Terminal
6	A050B127	6	Block, Terminal	13	A051F315	1	Rail, Terminal
7	A050B141	3	Block, Terminal				

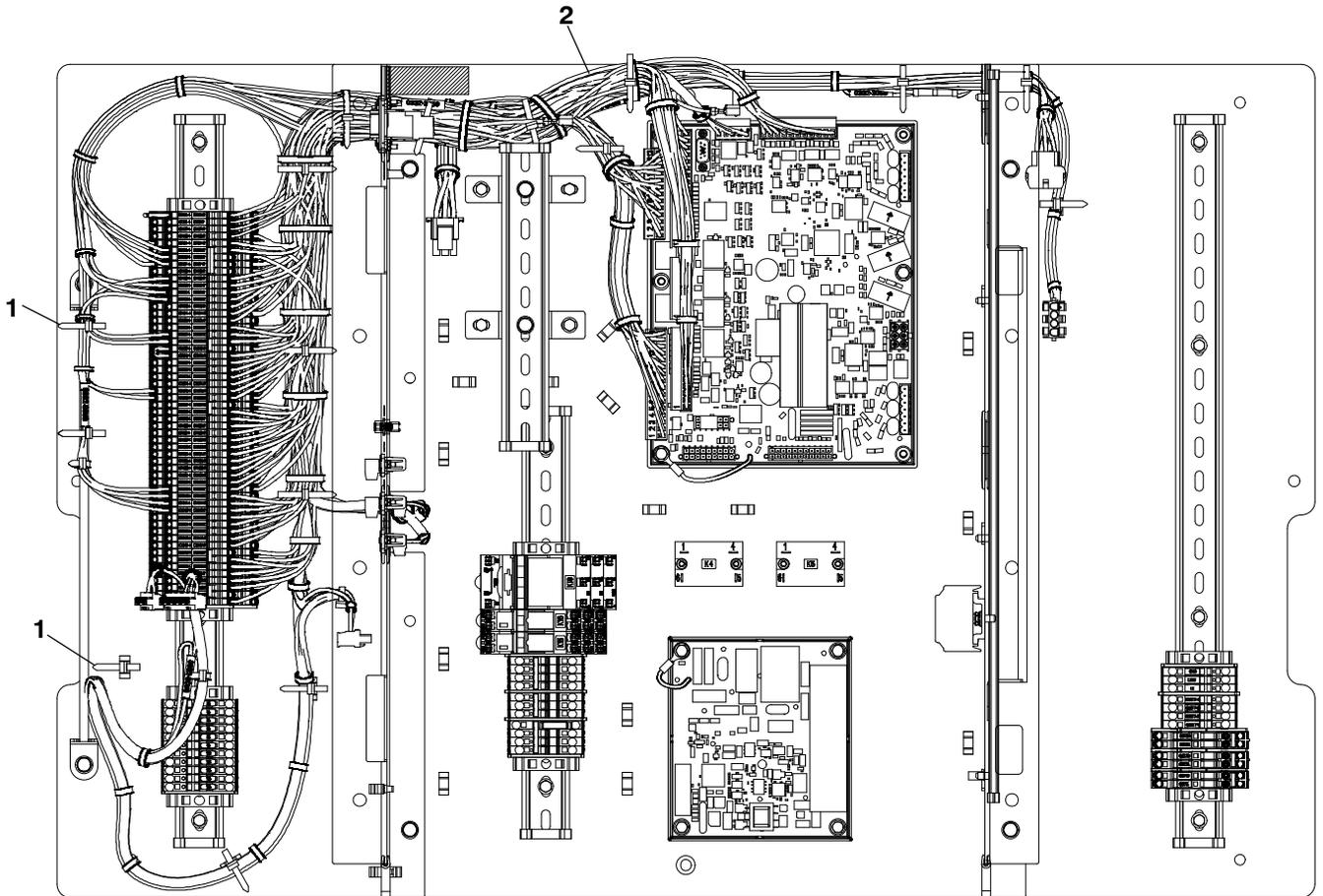
## Ancillaries Panel (Begin Spec E) (Illustration #7)



**Assembly of Harness A059R673**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A059R673	1	Harness, Generator Set	4	0332-1389	10	Tie, Cable
2	0098-8104-06	1	Label, Warning	5	A061L350	1	Label, Instruction
3	A053E091	1	Label, Instruction				

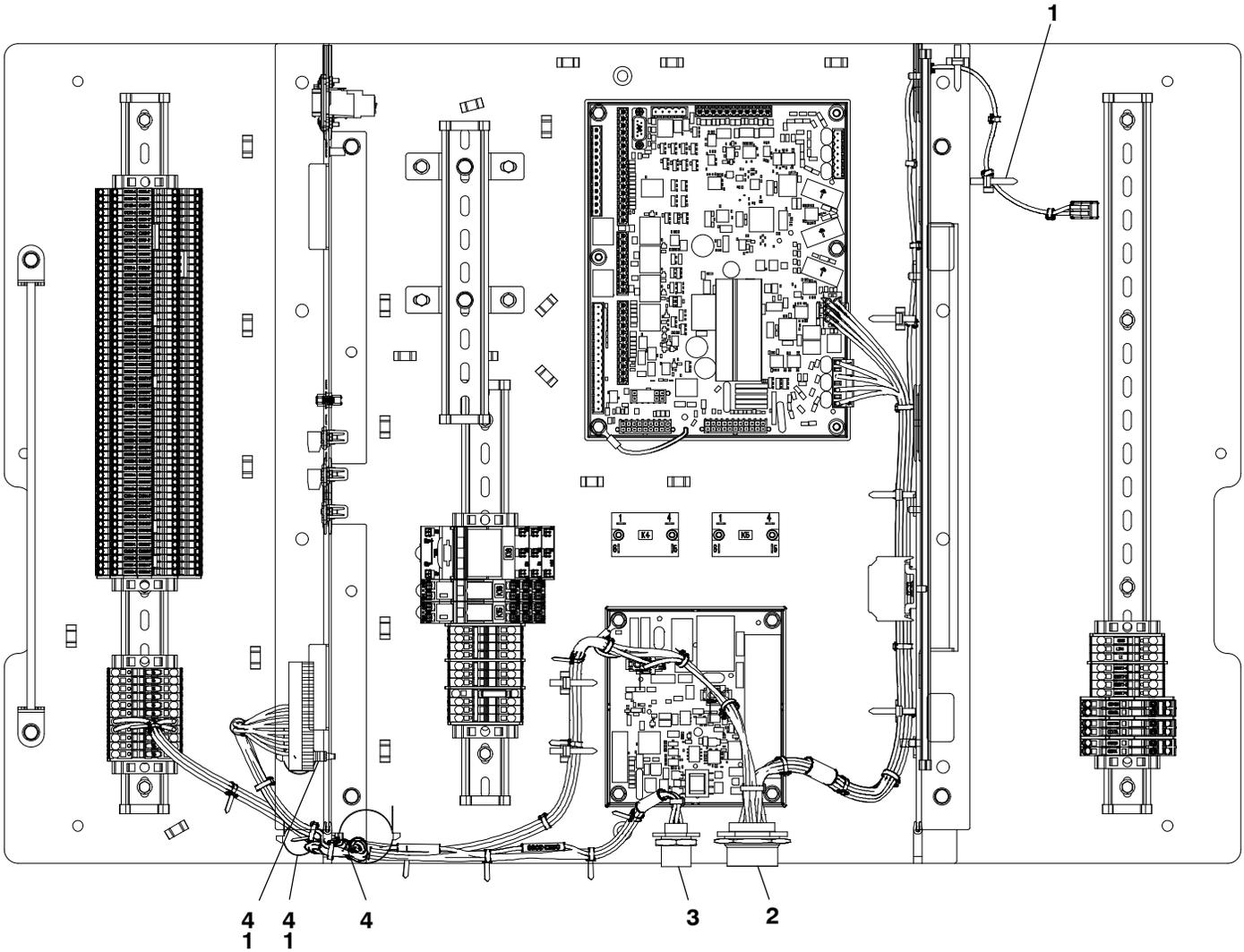
## Ancillaries Panel (Begin Spec E) (Illustration #8)



Assembly of Harness A050J580

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-1389	37	Tie, Cable	2	A050J580	1	Harness, Wiring

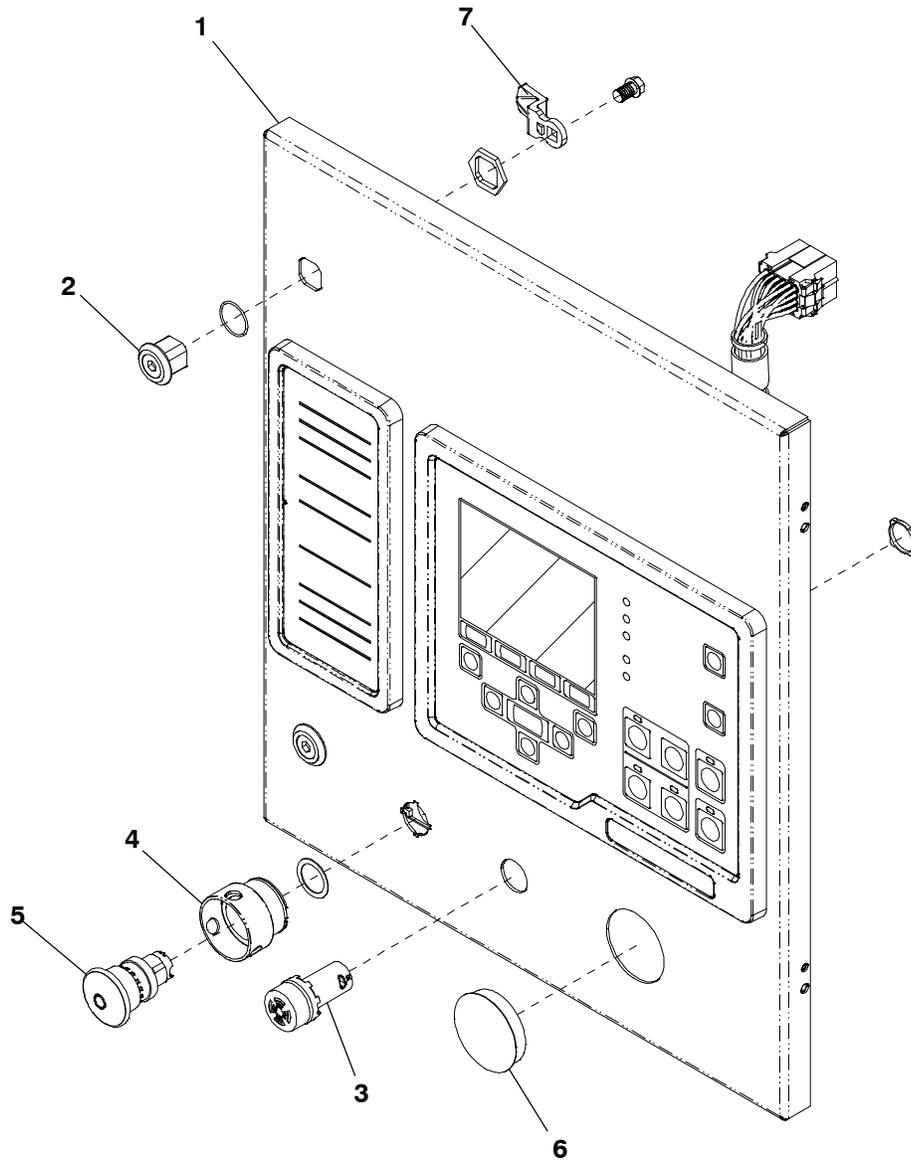
## Ancillaries Panel (Begin Spec E) (Illustration #9)



Assembly of Harness  
A050T187 and A050T696

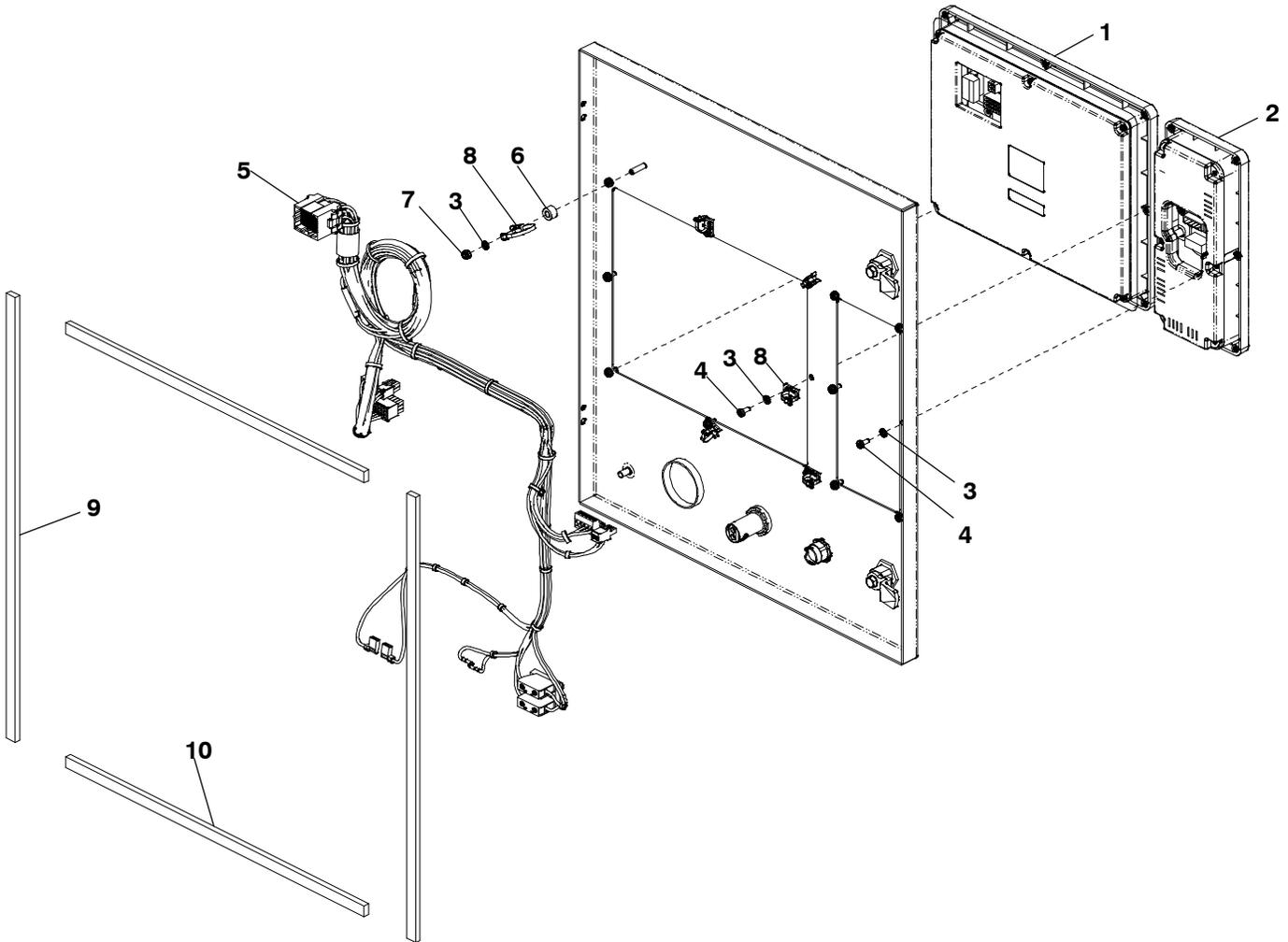
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-1389	37	Tie, Cable	3	A050T696	1	Harness, Wiring
2	A050T187	1	Harness, Alternating Current	4	0332-4106	32	Base, Cable Tie

## Control Door (Begin Spec E) (Illustration #1)



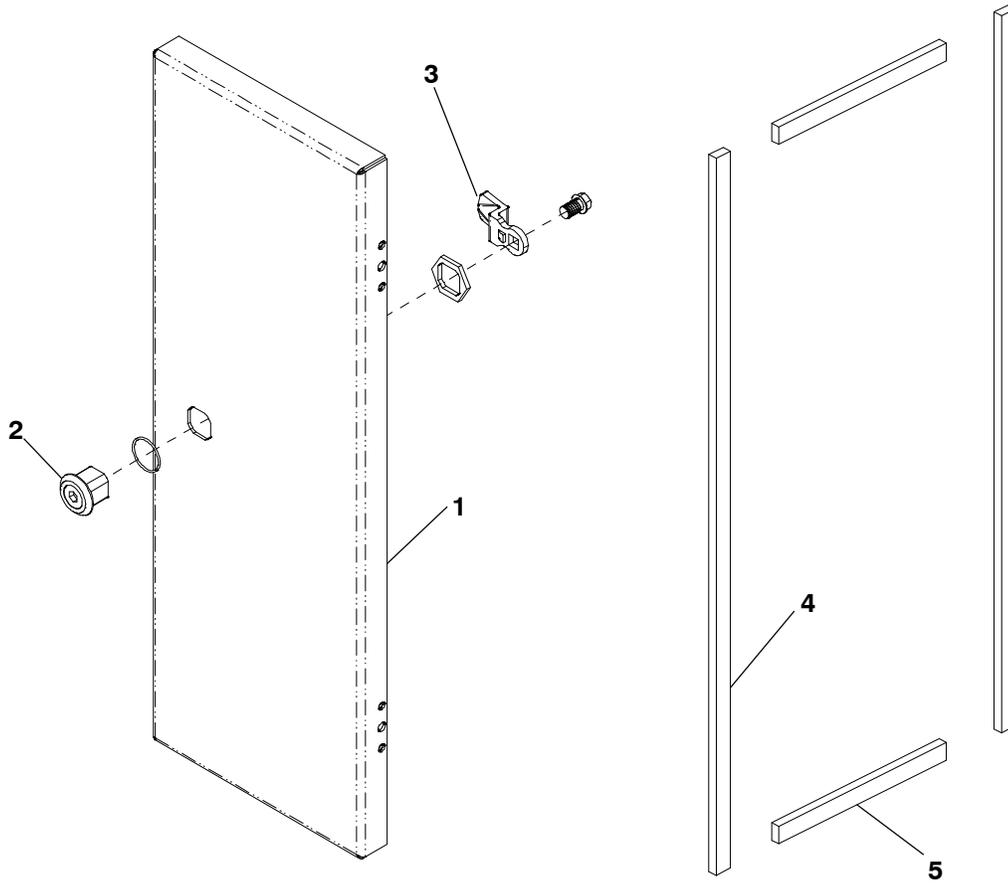
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A053L592	1	Door, Control	5	A043L028	1	Switch, Pushbutton
2	0406-0930	2	Latch, Door	6	0517-0138-08	1	Plug, Hole
3	A049U915	1	Alarm, Audible	7	A053M248	2	Latch, Cam
4	A049Z053	1	Guard				

## Control Door (Begin Spec E) (Illustration #2)



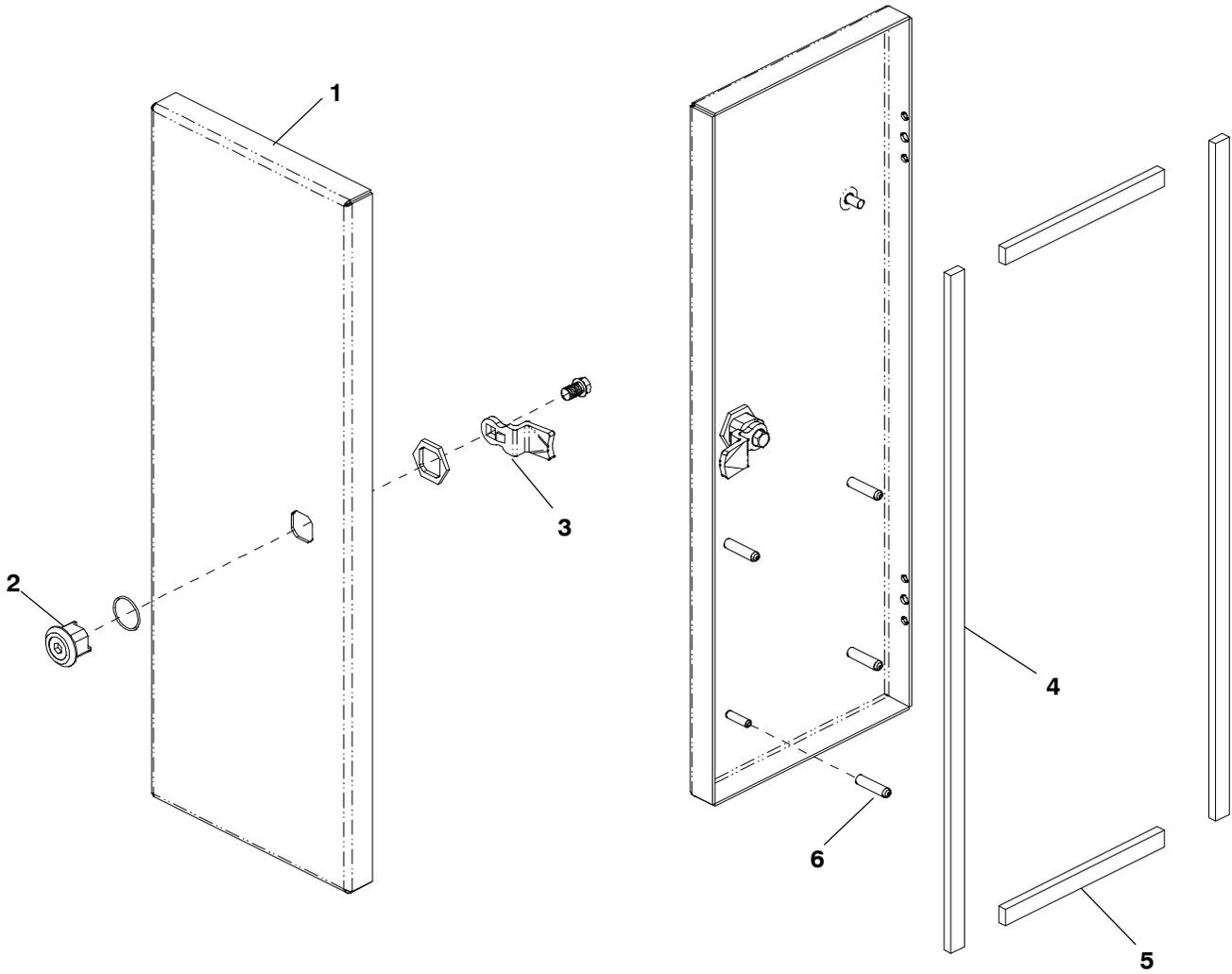
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0300-6315-02	1	Display, Control	6	0130-7270	1	Spacer
2	0300-6366-02	1	Display, Control	7	0870-2062	1	Nut, Lock
3	0850-0030	15	Washer, Lock	8	0332-1794	6	Tie, Cable
4	0823-1001-03	14	Screw, Pan Head	9	A052C716	2	Seal, Weather
5	A053L186	1	Harness, Wiring	10	A052C714	2	Seal, Weather

## Control Door (Begin Spec E)



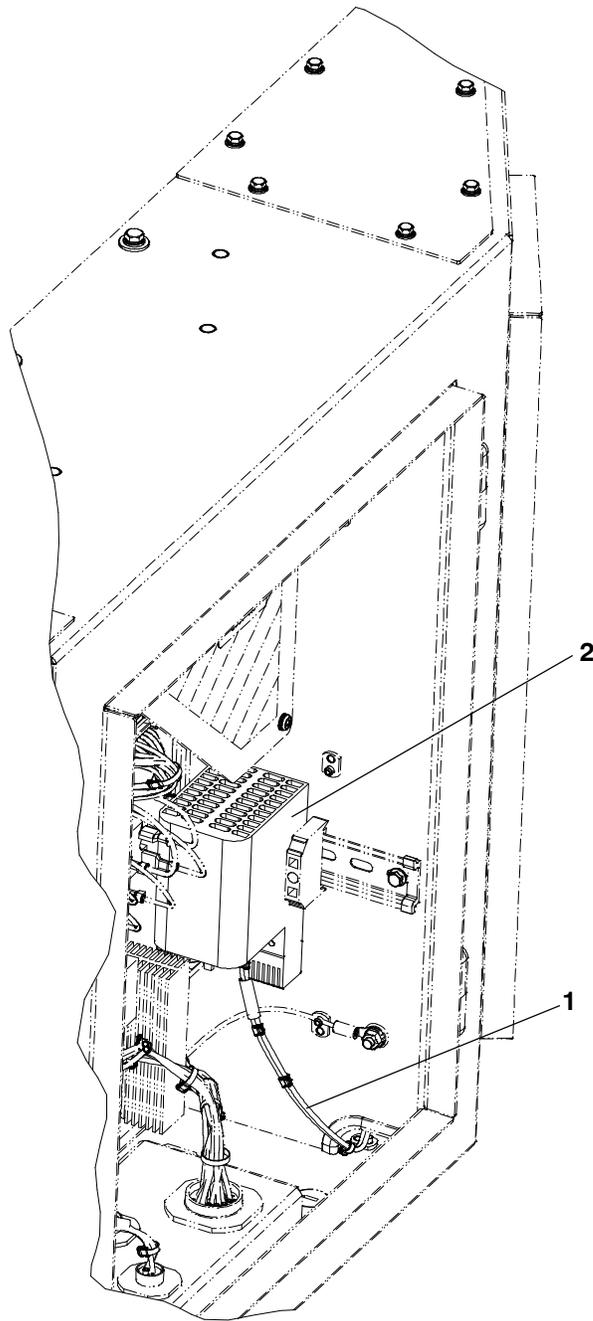
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A052C352	1	Door, Control	4	A052C716	2	Seal, Weather
2	0406-0930	1	Latch, Door	5	A052C659	2	Seal, Weather
3	A053M248	1	Latch, Cam				

## Control Door (Begin Spec E)



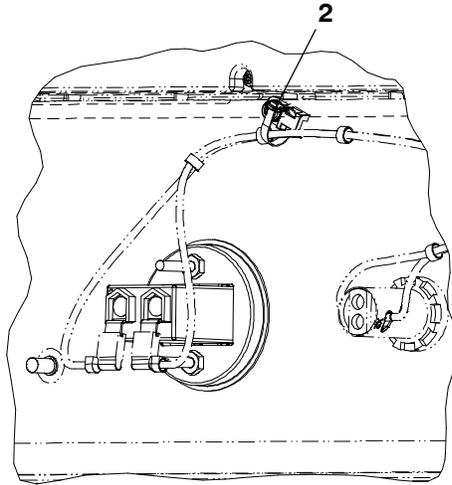
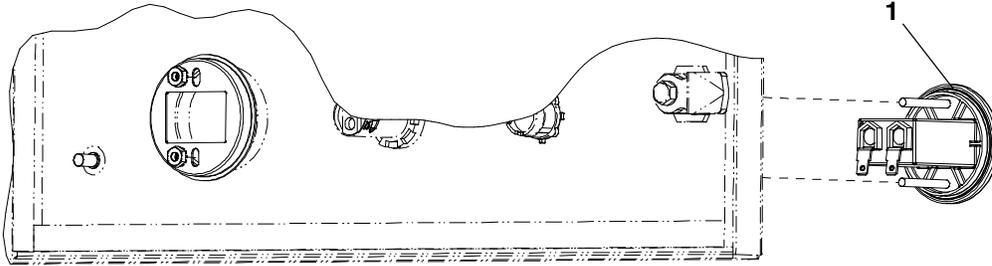
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A049Z270	1	Door, Control	4	A052C716	2	Seal, Weather
2	0406-0930	1	Latch, Door	5	A052C659	2	Seal, Weather
3	A053M248	1	Latch, Cam	6	A053M994	4	Cap, End

## Control Panel (Heater) (Begin Spec E)



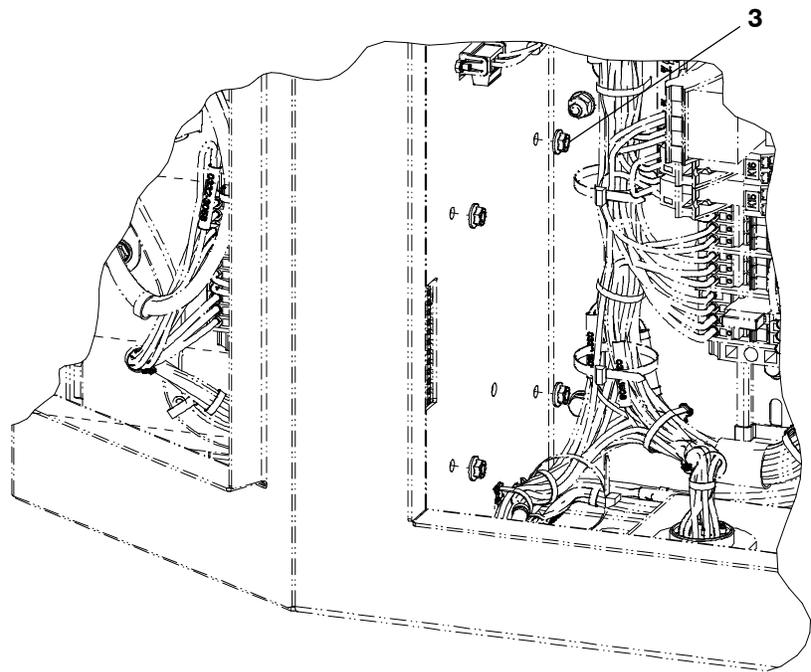
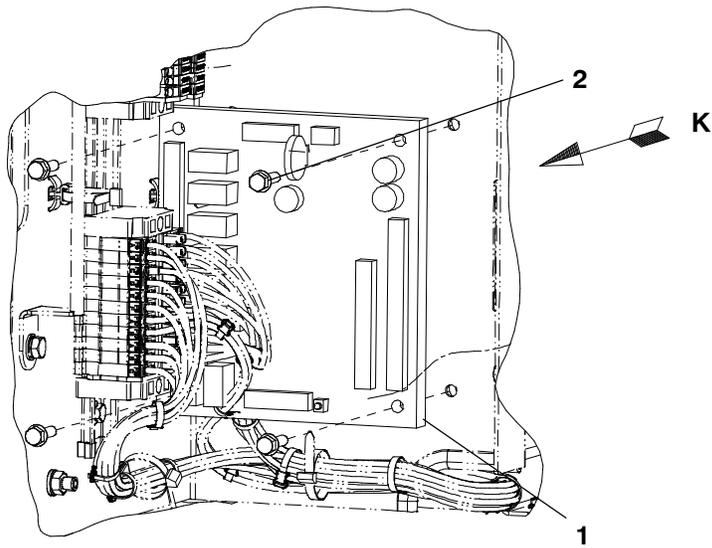
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A050J165	1	Harness, Heater	2	A049Y119	1	Heater, Control

## Control Panel (Hour Meter) (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A053L315	1	Meter, Hour	2	0332-1794	1	Tie, Cable

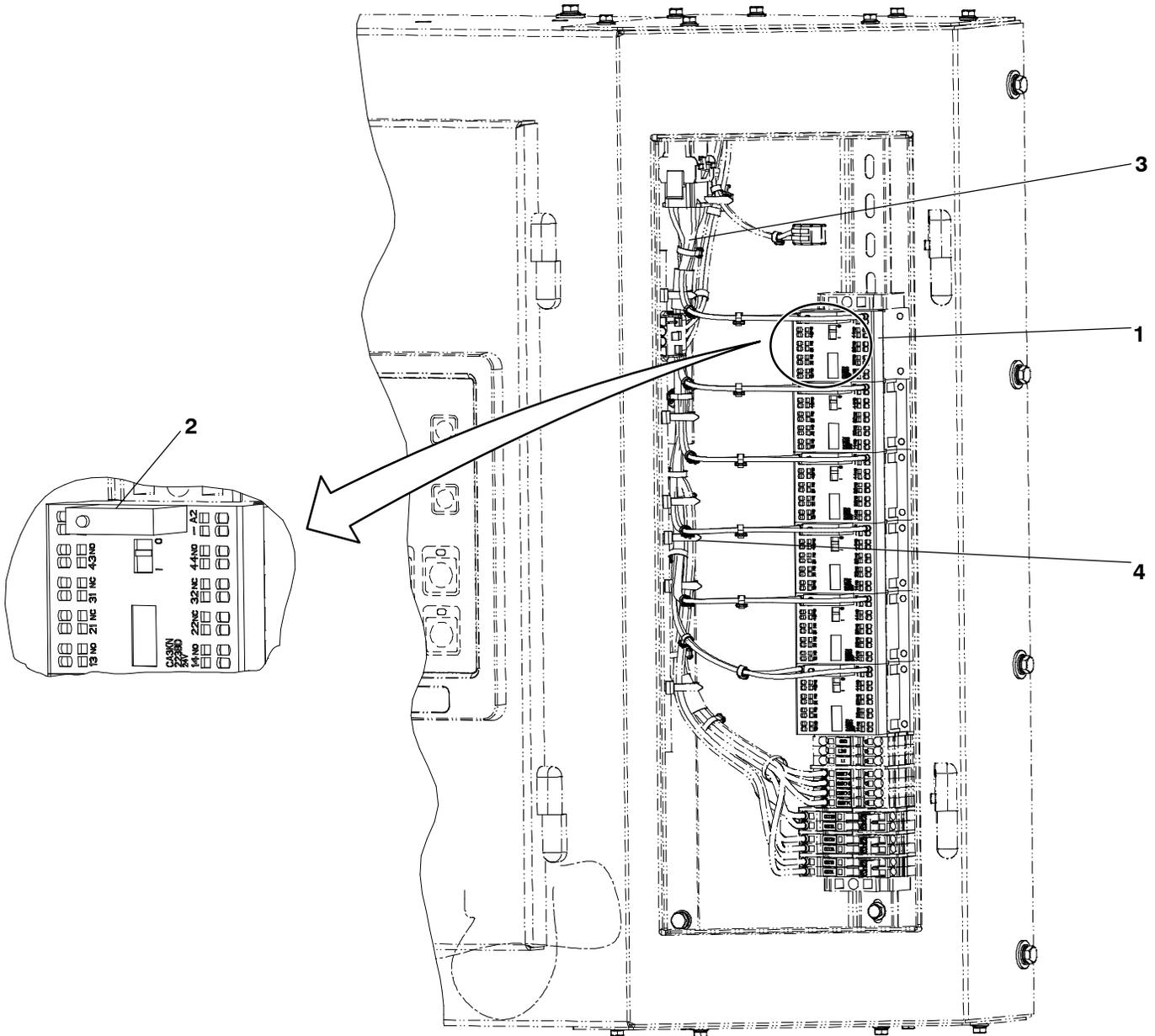
## Control Panel (AUX 101 Bulkhead) (Begin Spec E)



View in Direction of Arrow 'K'

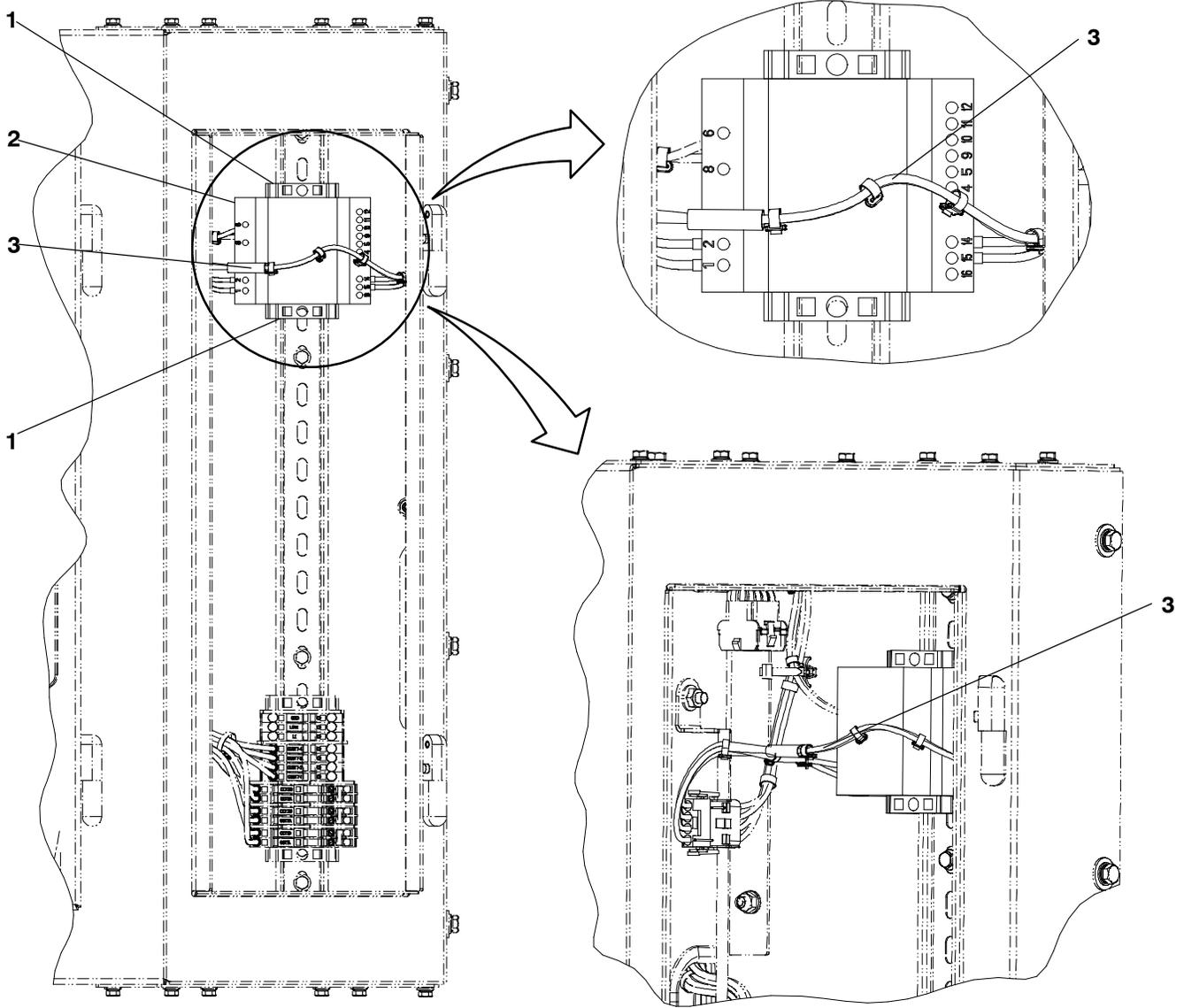
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0327-1536	1	Card, Input Output	3	0870-2065-01	4	Nut, Hex
2	0815-0793-05	4	Screw, Hex Flange Head				

## Control Panel (Auxiliary Relays) (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0307-2874	6	Relay, Control	3	A050J163	1	Harness, Relay
2	0305-1009	6	Suppressor, Voltage	4	0332-1389	3	Tie, Cable

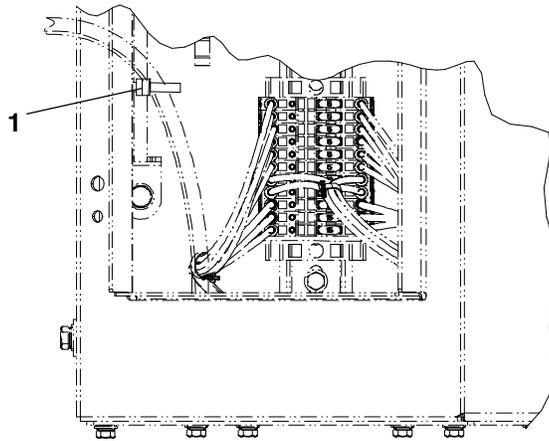
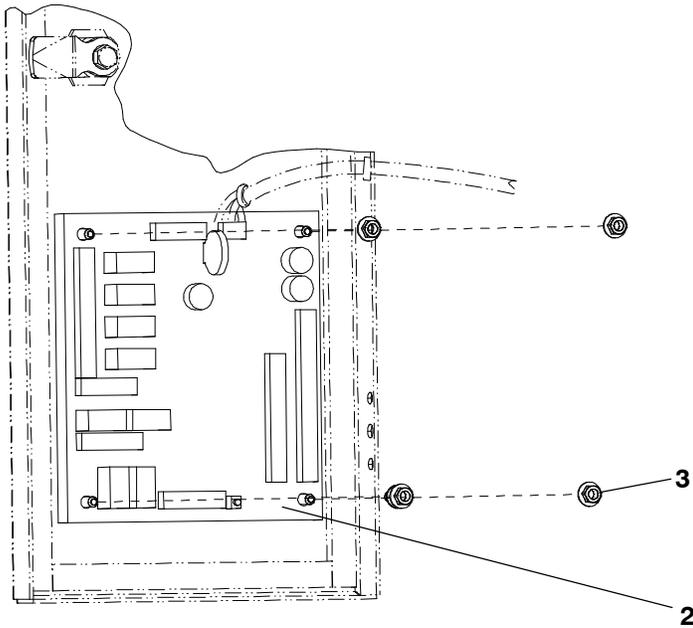
## Control Panel (Auxiliary Relays) (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-4320	2	Block, Terminal
2	0307-3003-01	1	Relay, Ground Fault

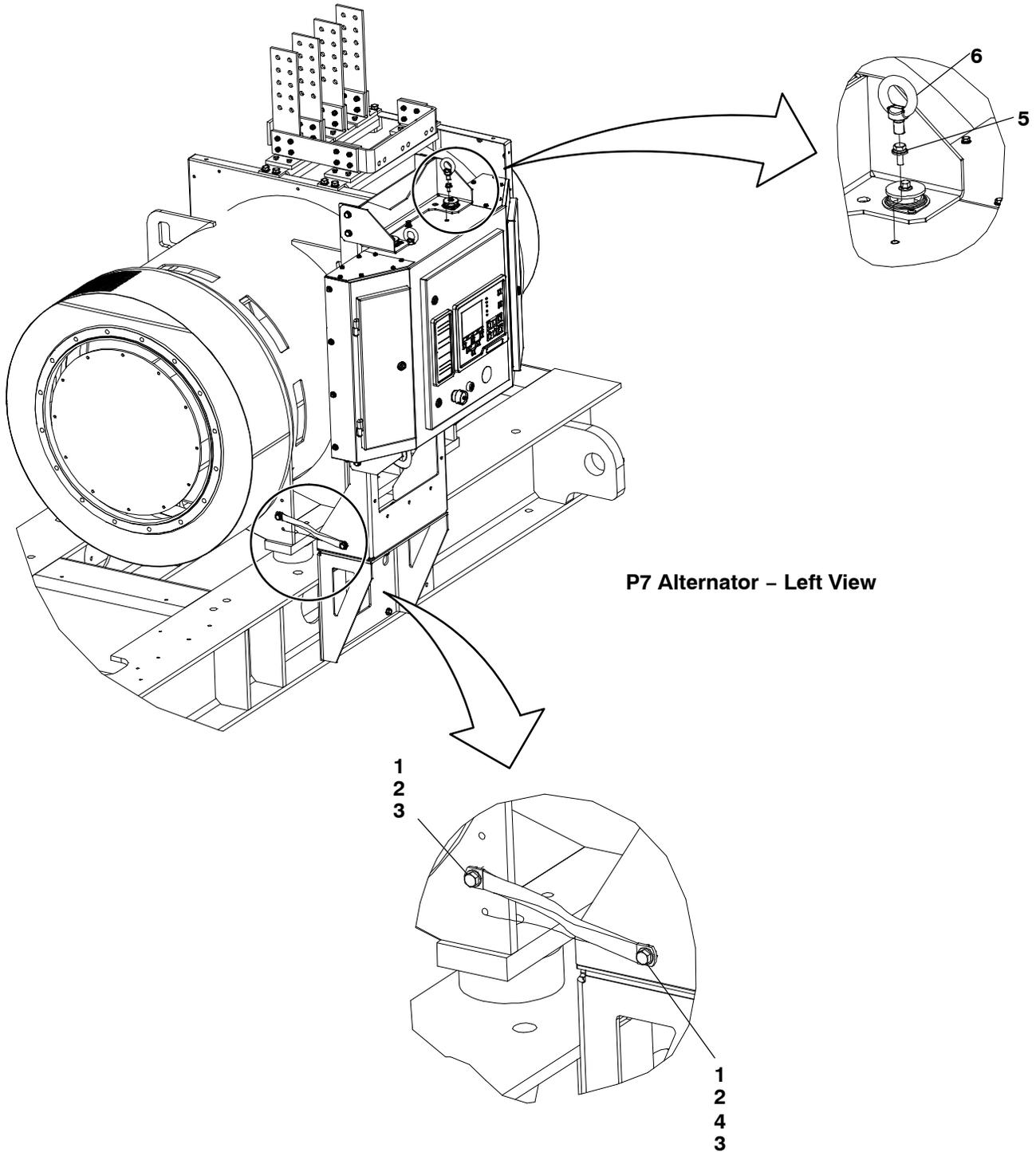
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	A050P662	1	Harness, Relay

## Control Panel (Aux 101 Door) (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-1389	1	Tie, Cable	3	0870-2065-01	4	Nut, Hex
2	0327-1536	6	Card, Input Output				

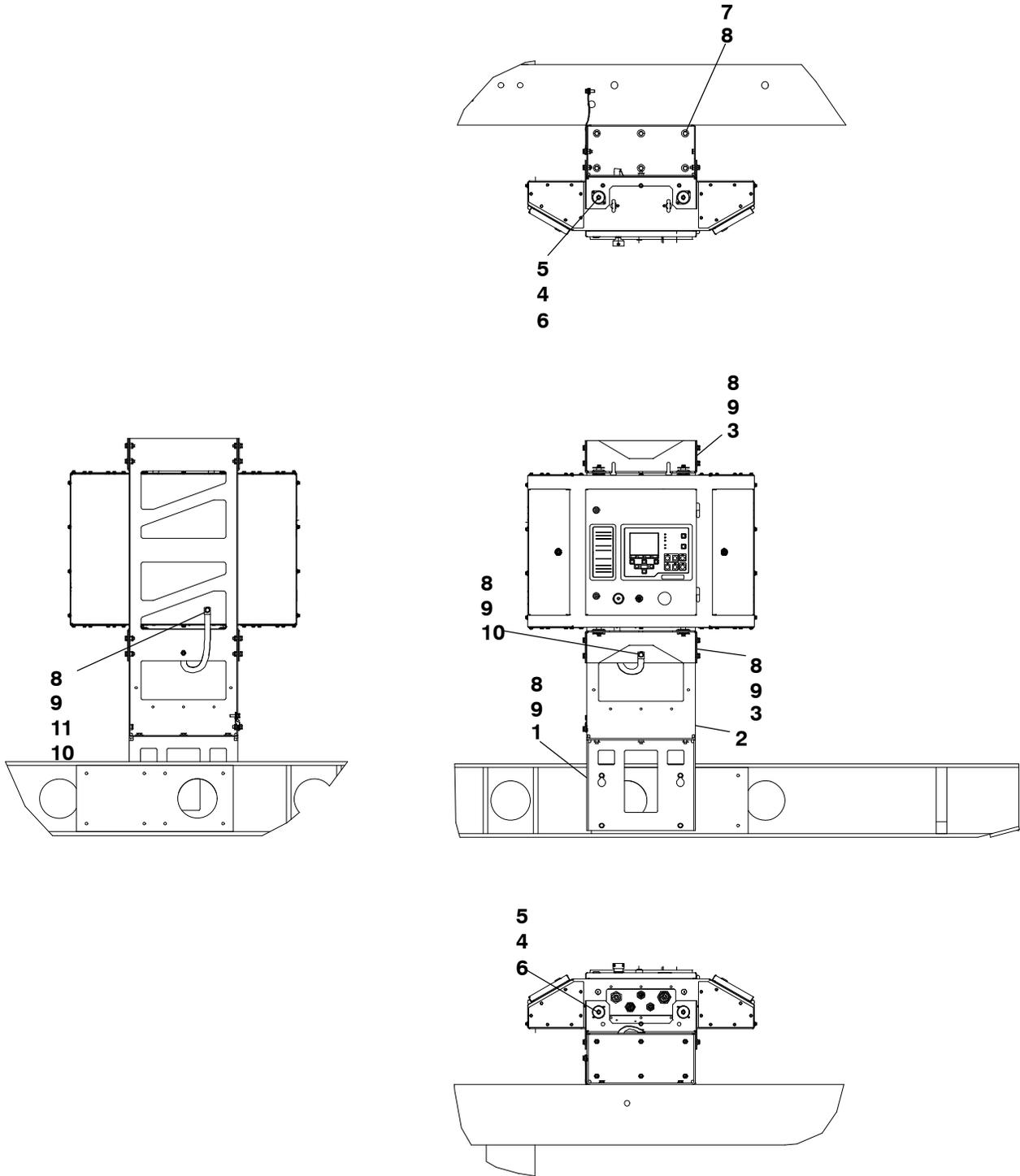
## Control Box Mounting (Begin Spec E) (Illustration #1)



**P7 Alternator – Left View**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-3017-38	22	Screw, Hex Head	4	0337-0090-01	1	Strap, Electrical
2	526-0399-62	16	Washer, Flat	5	0821-6003-01	2	Screw, Hex Head
3	0856-0010	4	Washer, Lock	6	0403-6469	2	Bolt, Eye

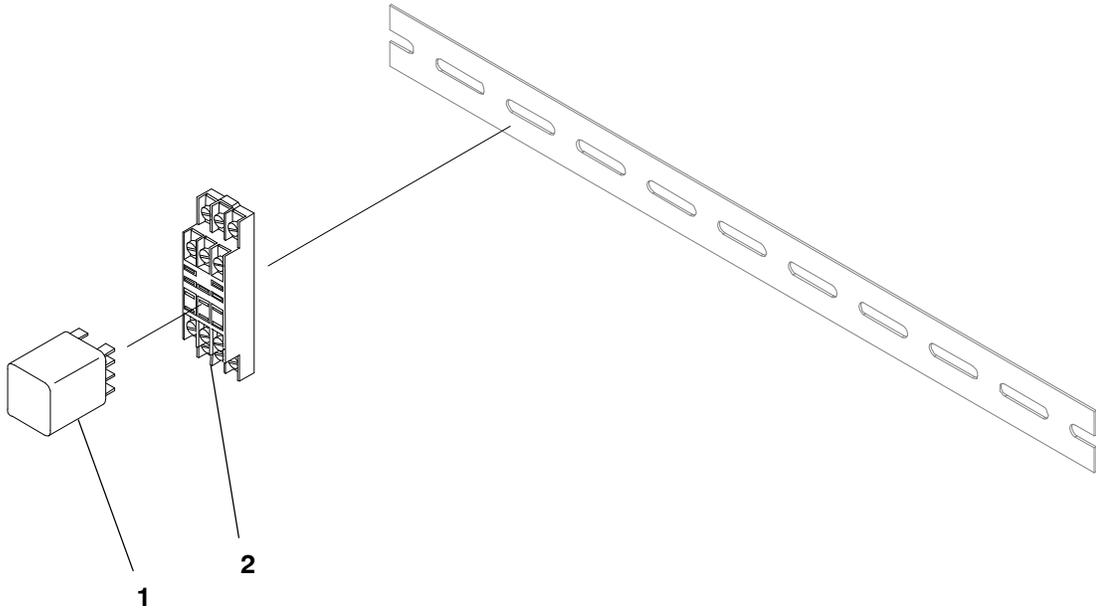
## Control Box Mounting (Begin Spec E) (Illustration #2)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A051M201	1	Base, Control Box
2	A051M205	1	Bracket, Support
3	A051M203	2	Mount, Control
4	0526-0324	8	Washer, Flat
5	A057P268	4	Screw, Hex Flange Head
6	0818-0231-03	8	Rivet, Pop

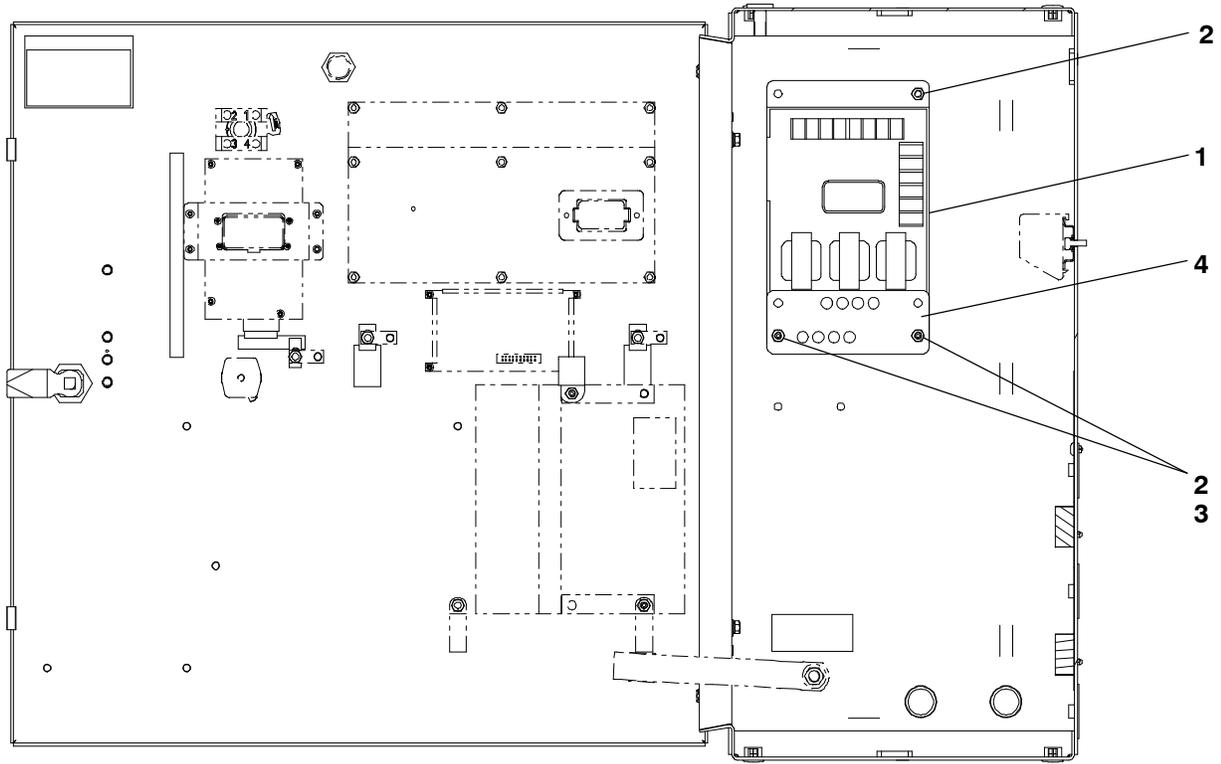
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	526-0399-63	6	Washer, Flat
8	800-3017-38	22	Screw, Hex Head
9	526-0399-62	16	Washer, Flat
10	0856-0010	4	Washer, Lock
11	0337-0090	1	Strap, Electrical

## Customer Relays (Spec A-D)



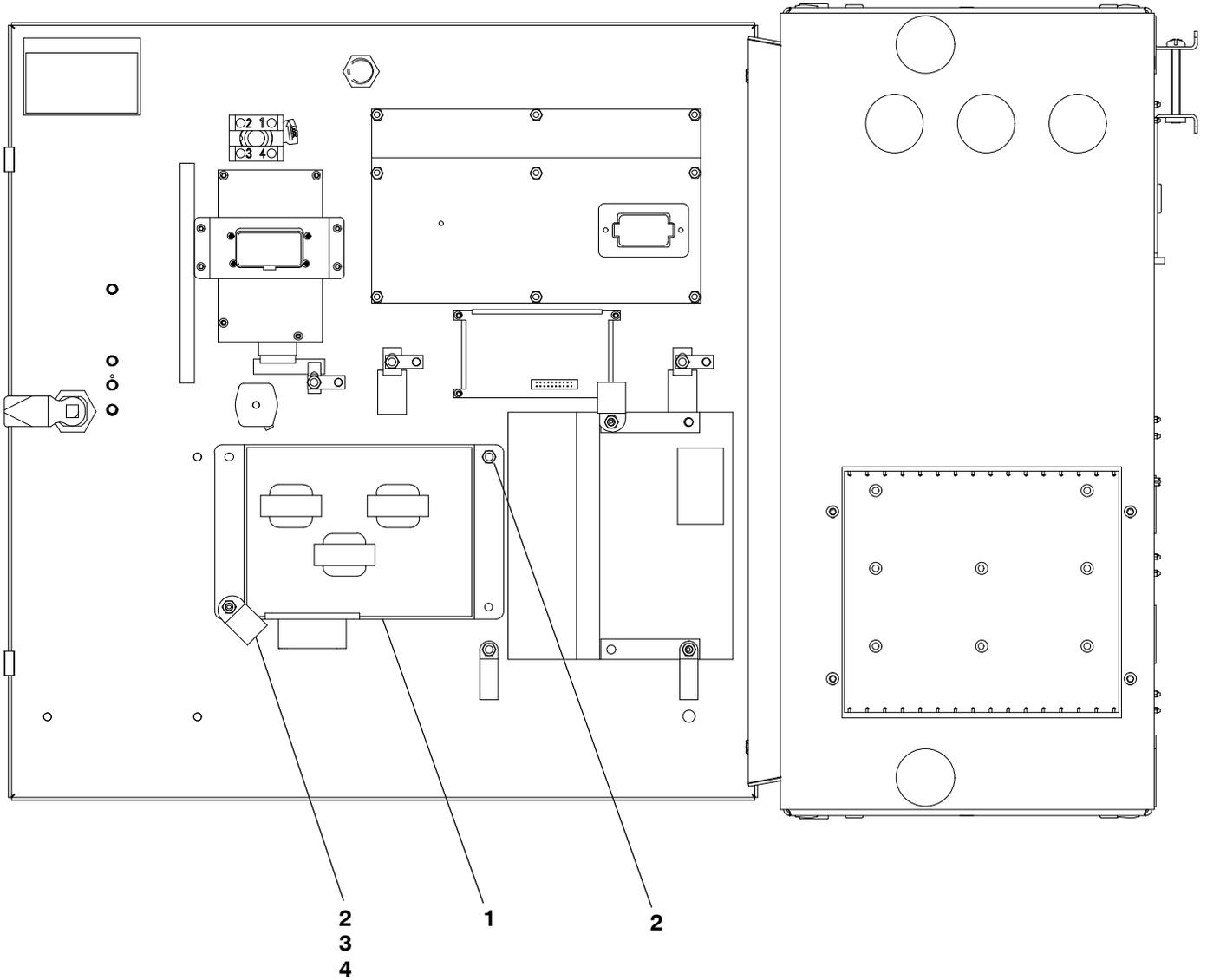
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1056	1	Relay (24 Volt) Alarm Relay (K16)	2	323-1410-01	1	Socket, Relay Alarm Relay
	307-1056-01	3	Run Relay (K11,12,13)		323-1410-01	3	Run Relay

## Bus PT Module (Spec A-D)



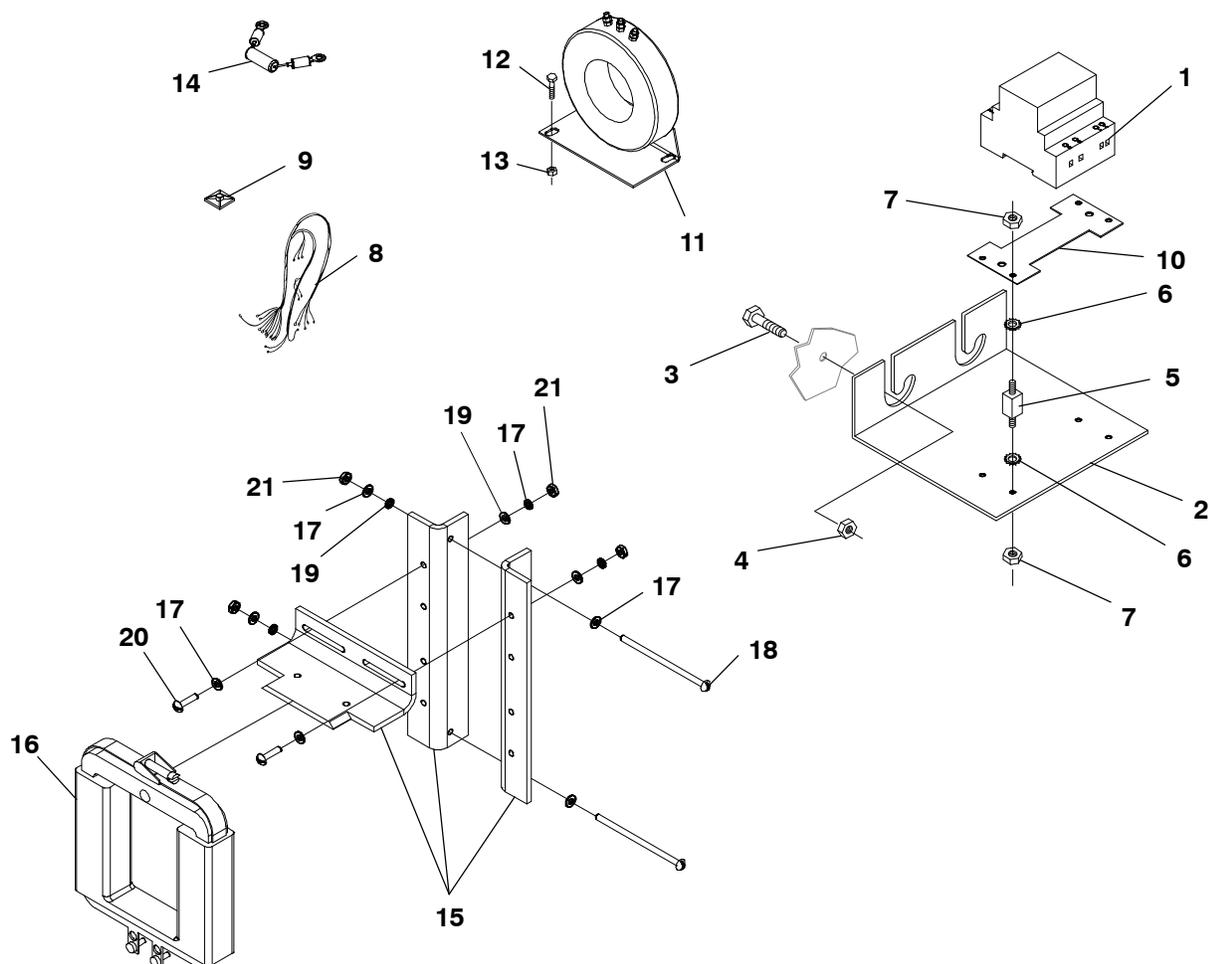
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Bus PT Module	2	870-2062	2	Nut, Nylon – Lock (M5)
	300-4985-01	1	120 Volts	3	872-0019-01	2	Standoff
	300-4985-02	1	240 Volts	4	319-5060	1	Guard, Electrical
	300-4985-03	1	346 Volts				

## PT/CT Module (Spec A-D)



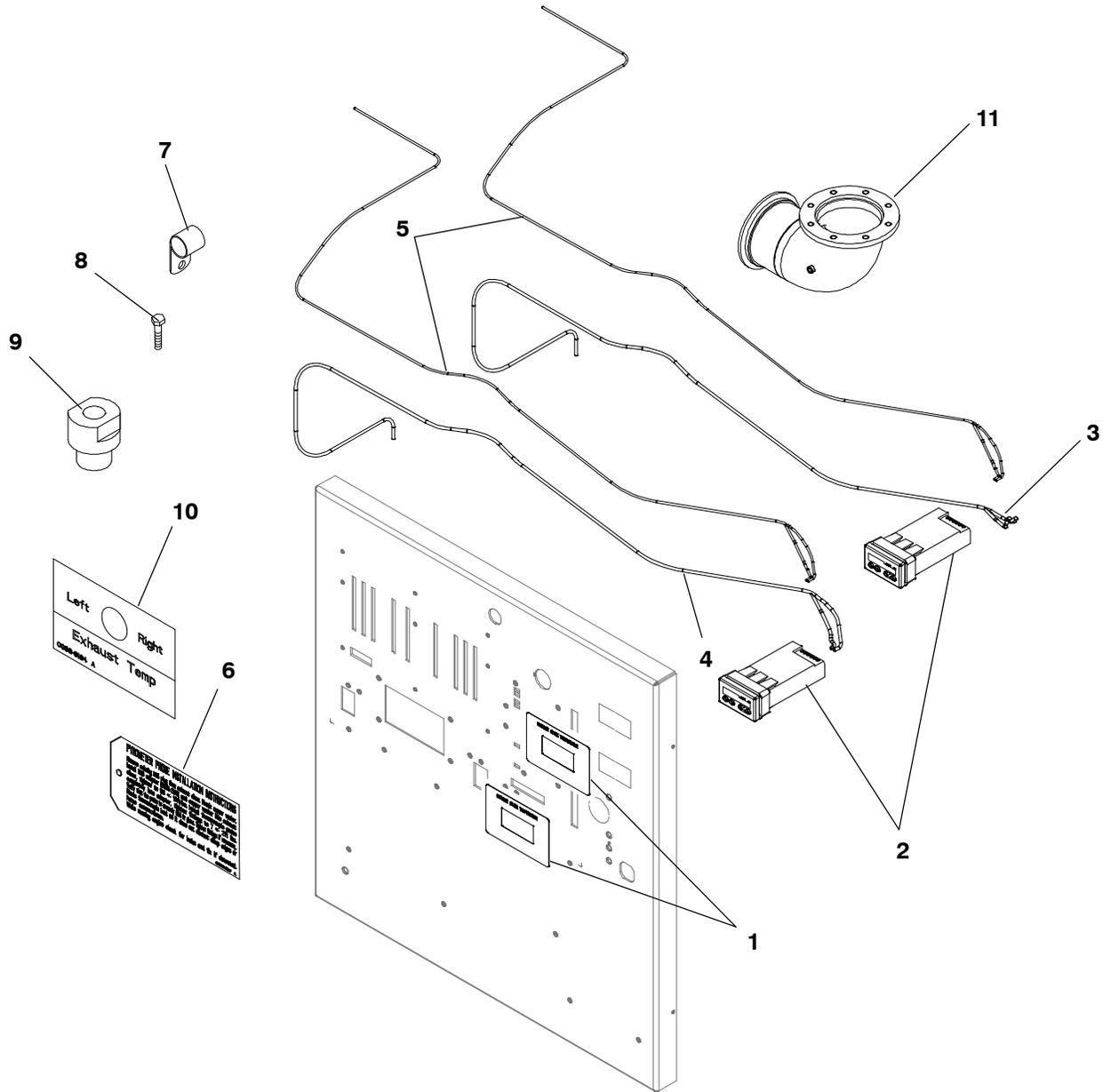
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – PT/CT Module	2	870-2062	2	Nut, Nylon – Lock (M5)
	300-4308-01	1	120 Volts	3	872-0019-01	1	Standoff
	300-4308-02	1	240 Volts	4	332-0052	1	Clip, Wire
	300-4308-03	1	346 Volts				

## Ground Fault Relay



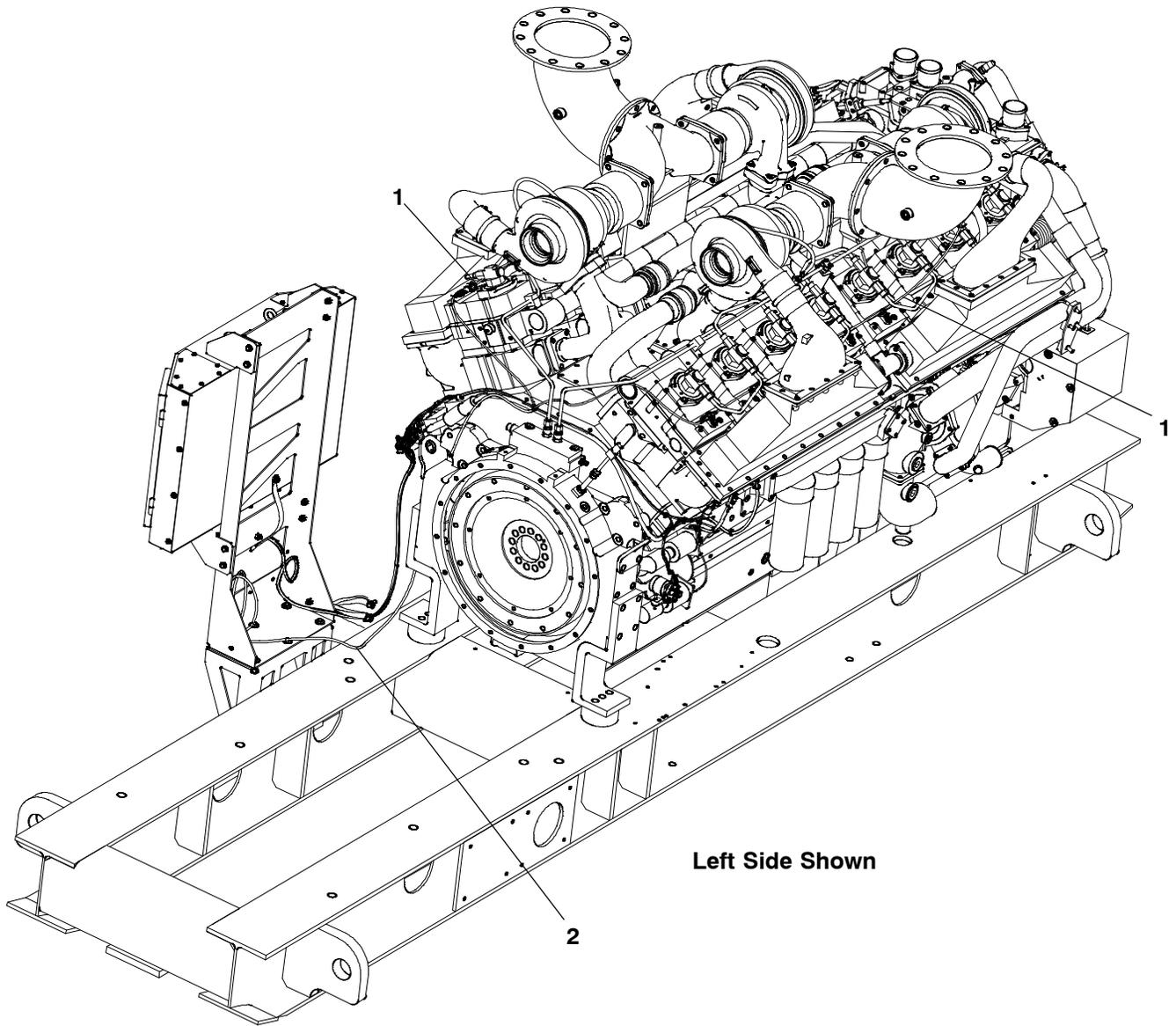
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3003-01	1	Relay, Ground Fault	13	870-0212	2	Nut, Self-Locking (1/4-20)
2	301-6987	1	Bracket, Watts Transducer	14	338-4386	1	Harness, Meter - Resistor
3	821-0017	2	Screw, Locking (5/16-18 x 1/2)	15	315-1622	1	* 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				
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)				* Used With 3 Pole Non-Separately Derived Transfer Switch

## Pyrometer (Spec A-D)



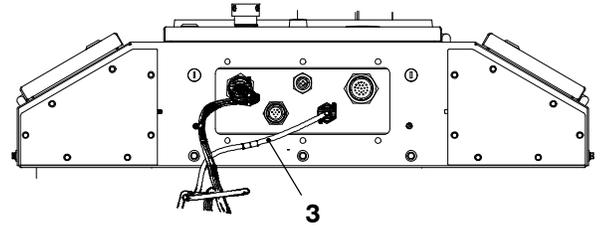
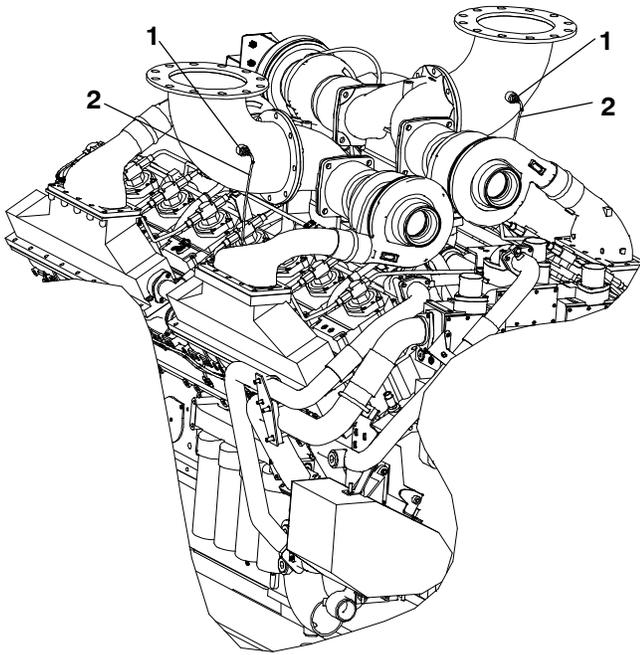
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7720-01	2	Label, Exhaust - Pyrometer	6	098-8157	3	Label, Instruction
2	A043T369	2	Control, Temperature	7	518-0350	9	Clamp
3	A046J227	1	Harness, Meter - Pyrometer (Labeled)	8	821-6003-01	9	Screw
4	A046J229	1	Harness, Meter - Pyrometer (Labeled)	9	505-2138	2	Adapter, Pipe (1/8 x M16)
5	193-0493-01	2	Sender, Temperature	10	098-8184	1	Label, Instruction - Switch
				11	155-4529	1	Elbow, Exhaust - Outlet

**Pyrometer  
(Begin Spec E) (Illustration #1)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-03	2	Sender, Temperature	2	A054S683	1	Harness, Sensor

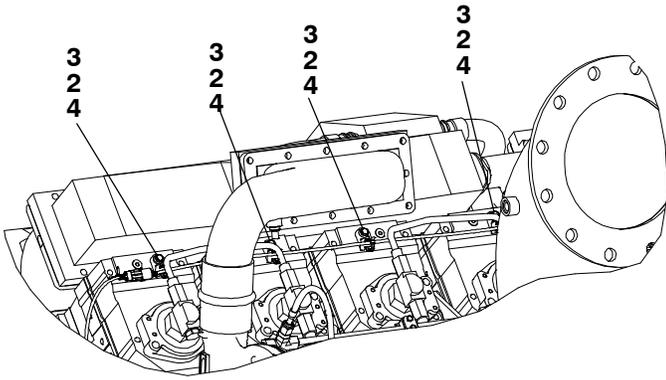
## Pyrometer (Begin Spec E) (Illustration #2)



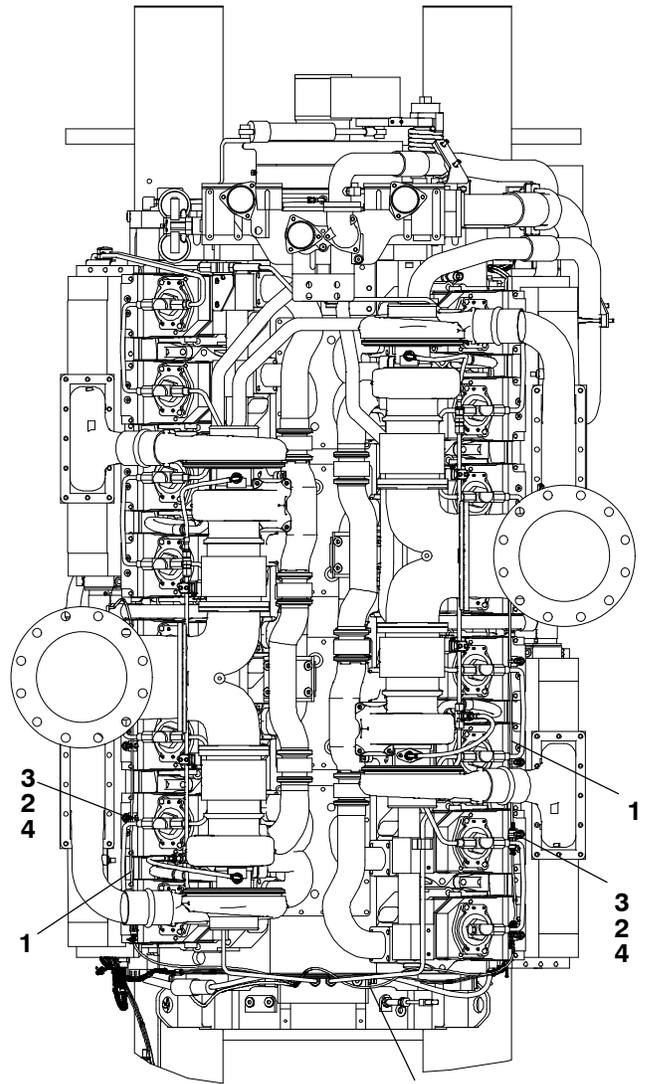
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-2138	2	Adapter, Pipe (1/8 x M16)
2	193-0446-03	2	Sender, Temperature

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	A054S683	1	Harness, Sensor

**Pyrometer  
(Begin Spec E) (Illustration #3)**



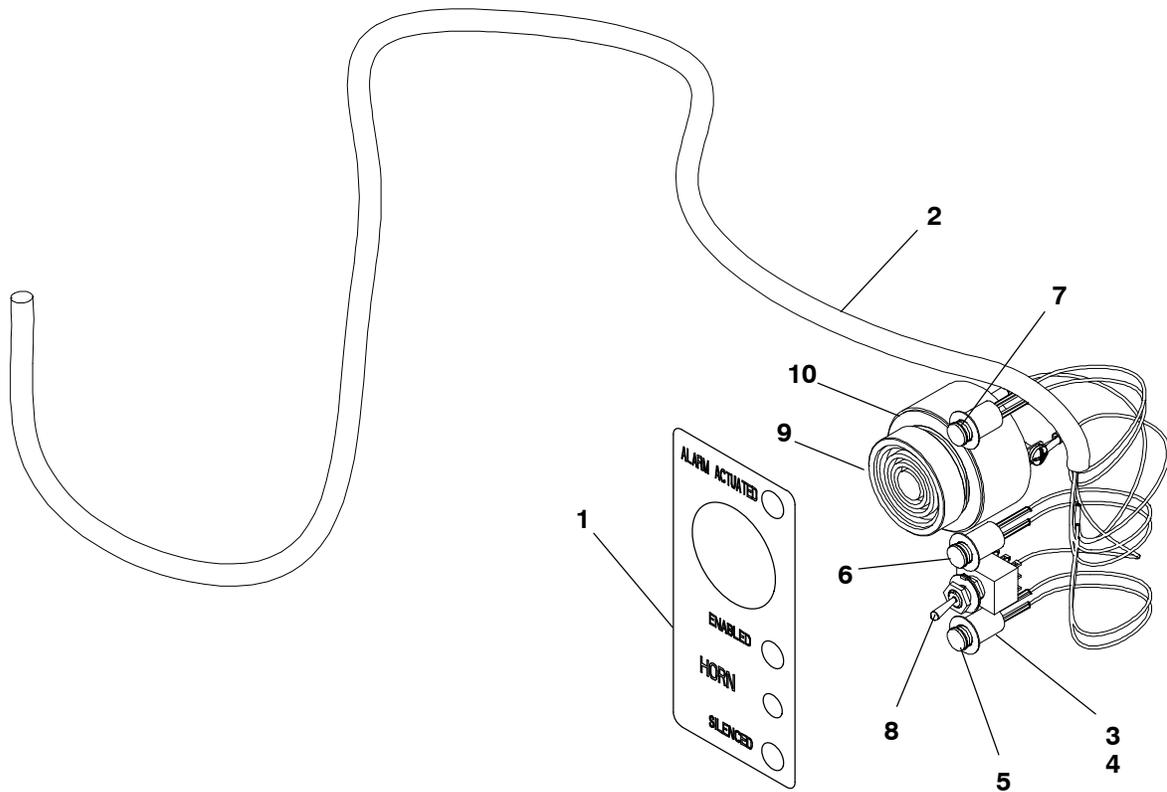
**Left Side**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0446-03	2	Sender, Temperature
2	A042Y991	9	Clamp, Cable

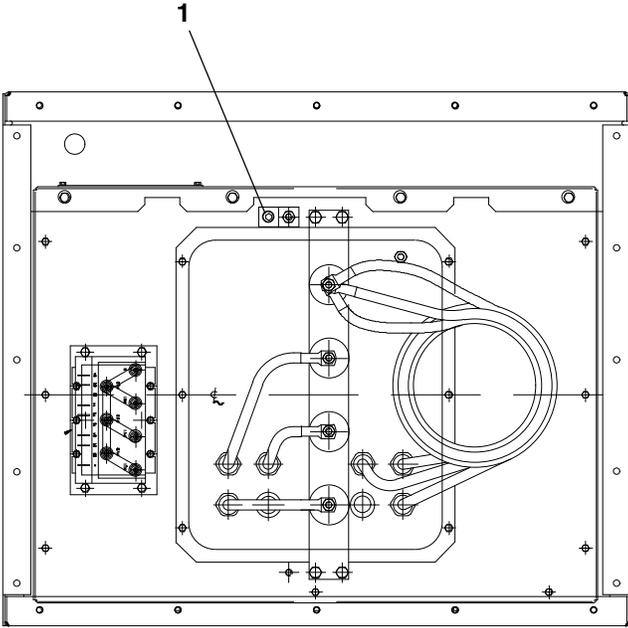
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	0332-1389	9	Tie, Cable
4	821-6003-01	9	Screw, Hex Head

## Audible Alarm Module (Spec A-D)

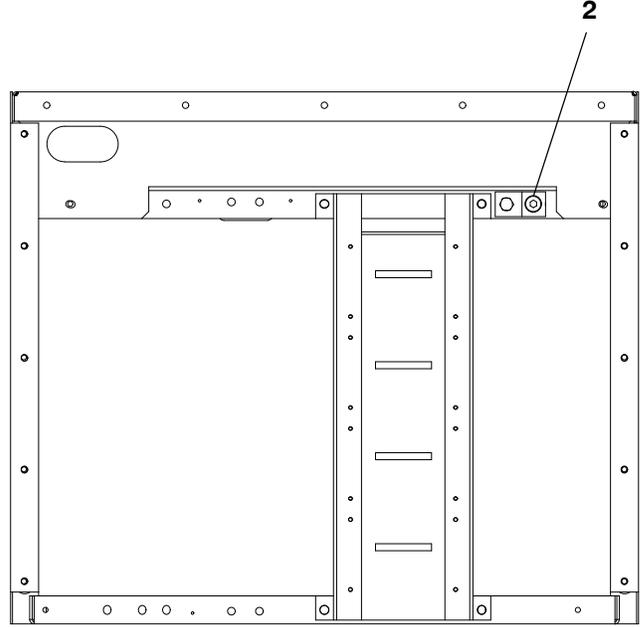


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7719-01	1	Label, Alarm	6	322-0493-04	1	Lens, LED (Green)
2	338-4351	1	Harness, Alarm (Includes the Following Parts)	7	322-0493-06	1	Lens, LED (Red)
3	323-1899-01	3	Connector, LED	8	308-1105	1	Switch, Toggle
4	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

# Solderless Lug



MV7

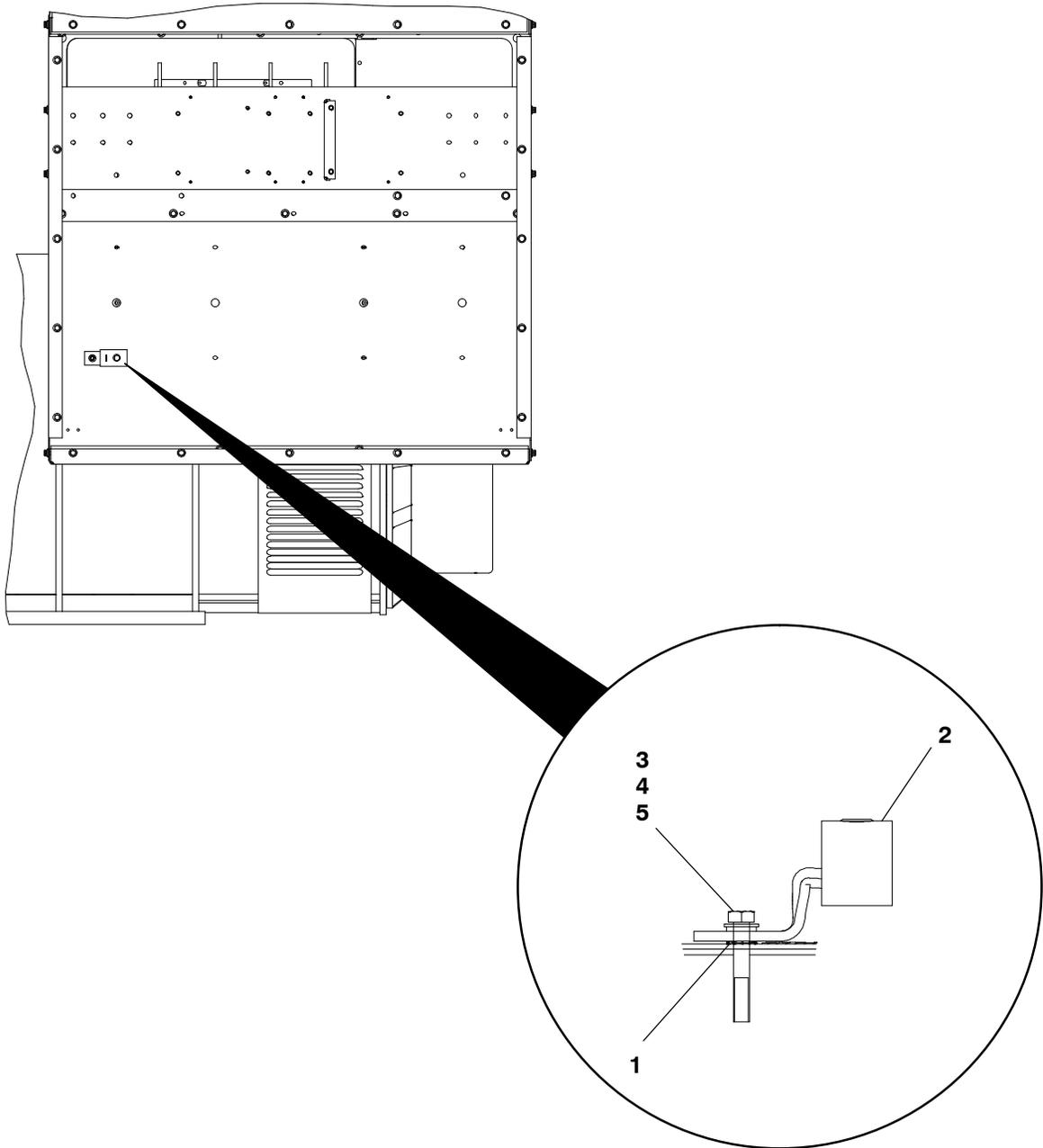


P7

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

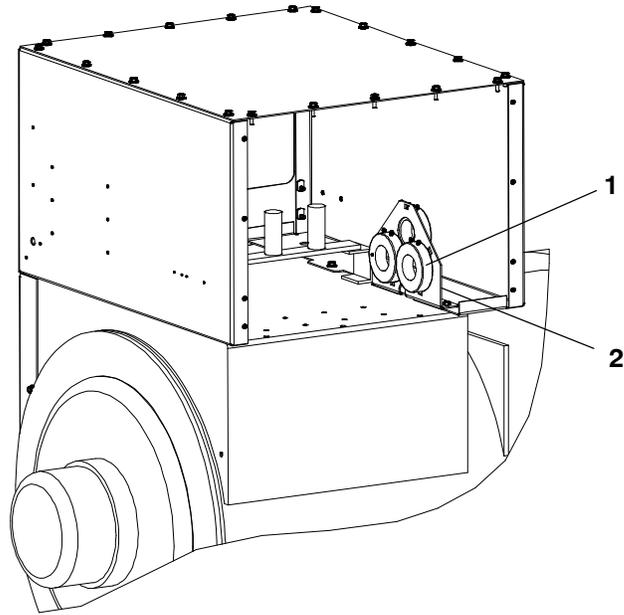
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	332-2770-01	1	Lug, Solderless

## Solderless Lug



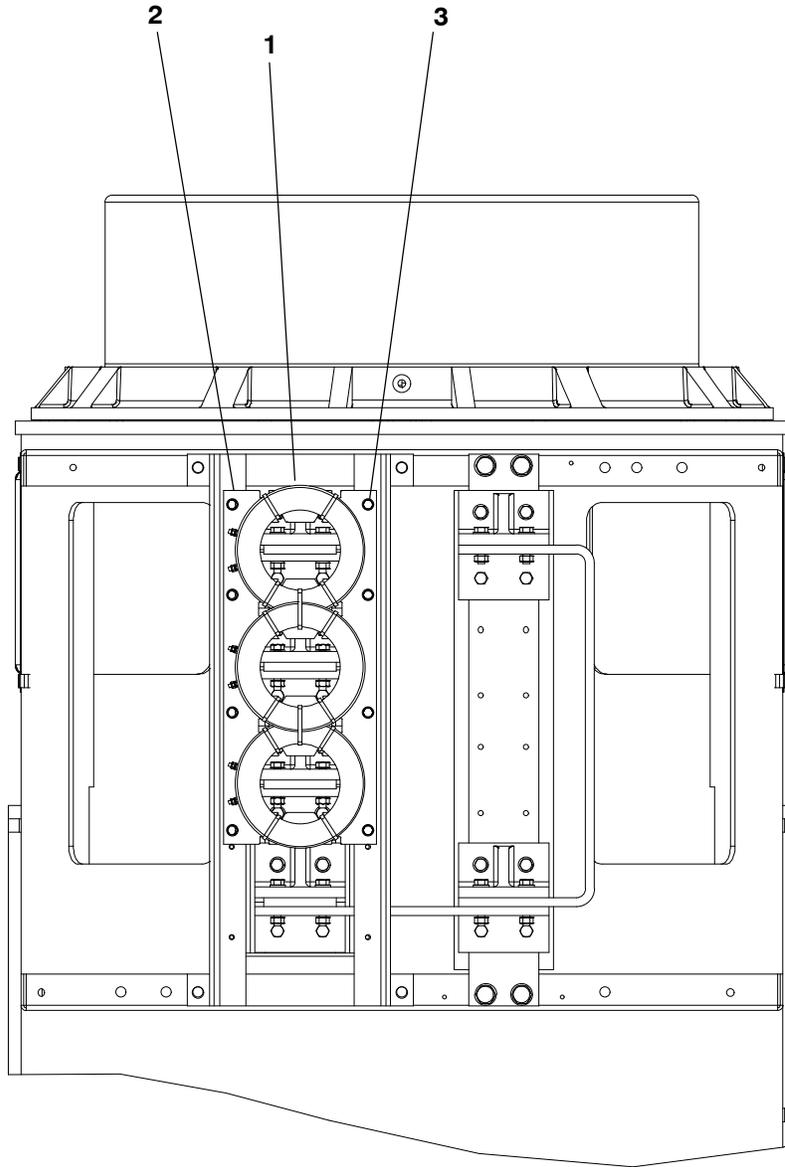
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	853-2008	1	Washer, Lock - W/ET	4	526-0399-60	1	Washer, Flat
2	332-2001	1	Lug, Solderless	5	800-2063	1	Screw, Cap - Hex Head
3	850-0114-54	1	Washer, Lock				

# Transformer



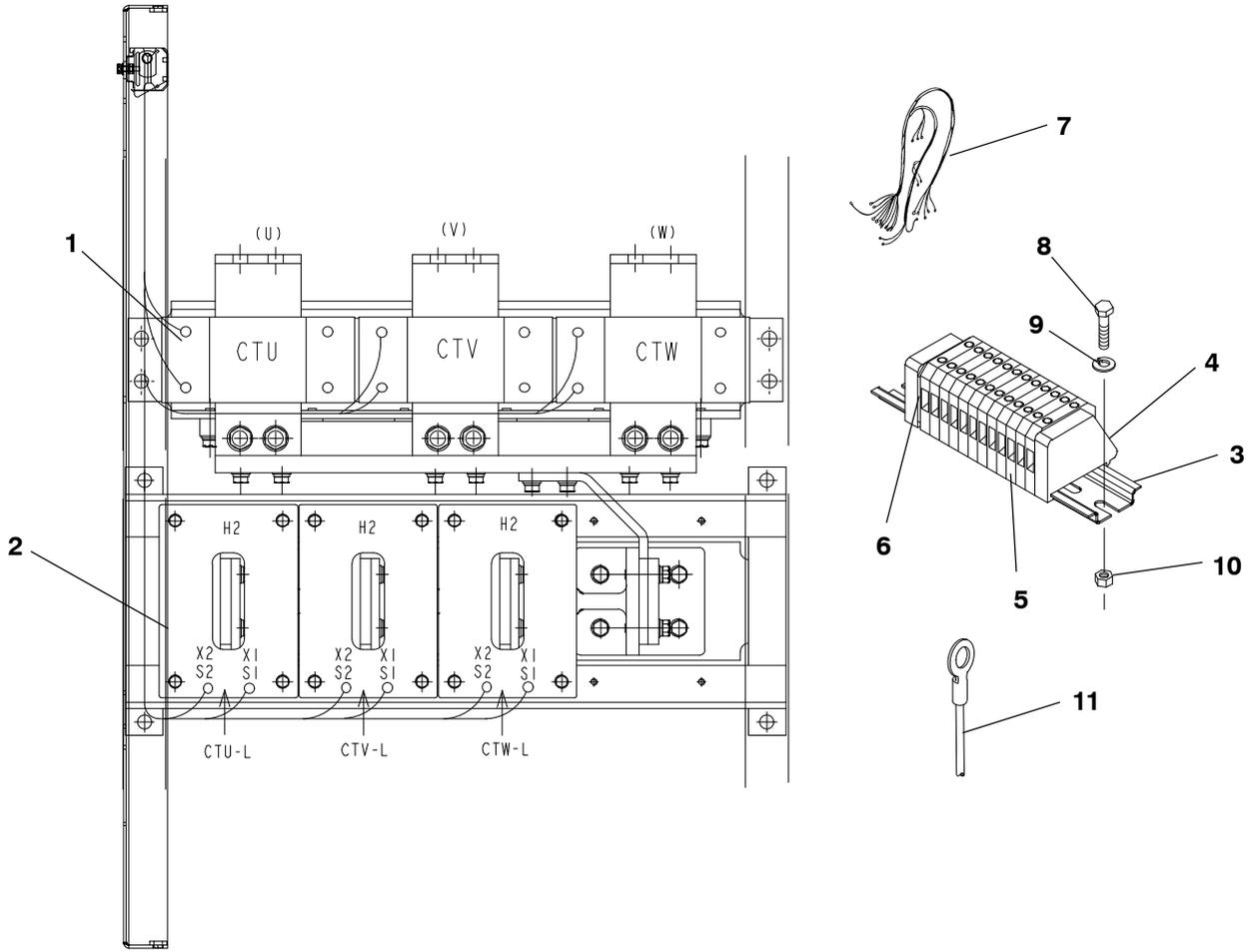
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2058-36	3	Transformer, Current – 670:1	2	319-7151	1	Base, Transformer

## Transformer P7



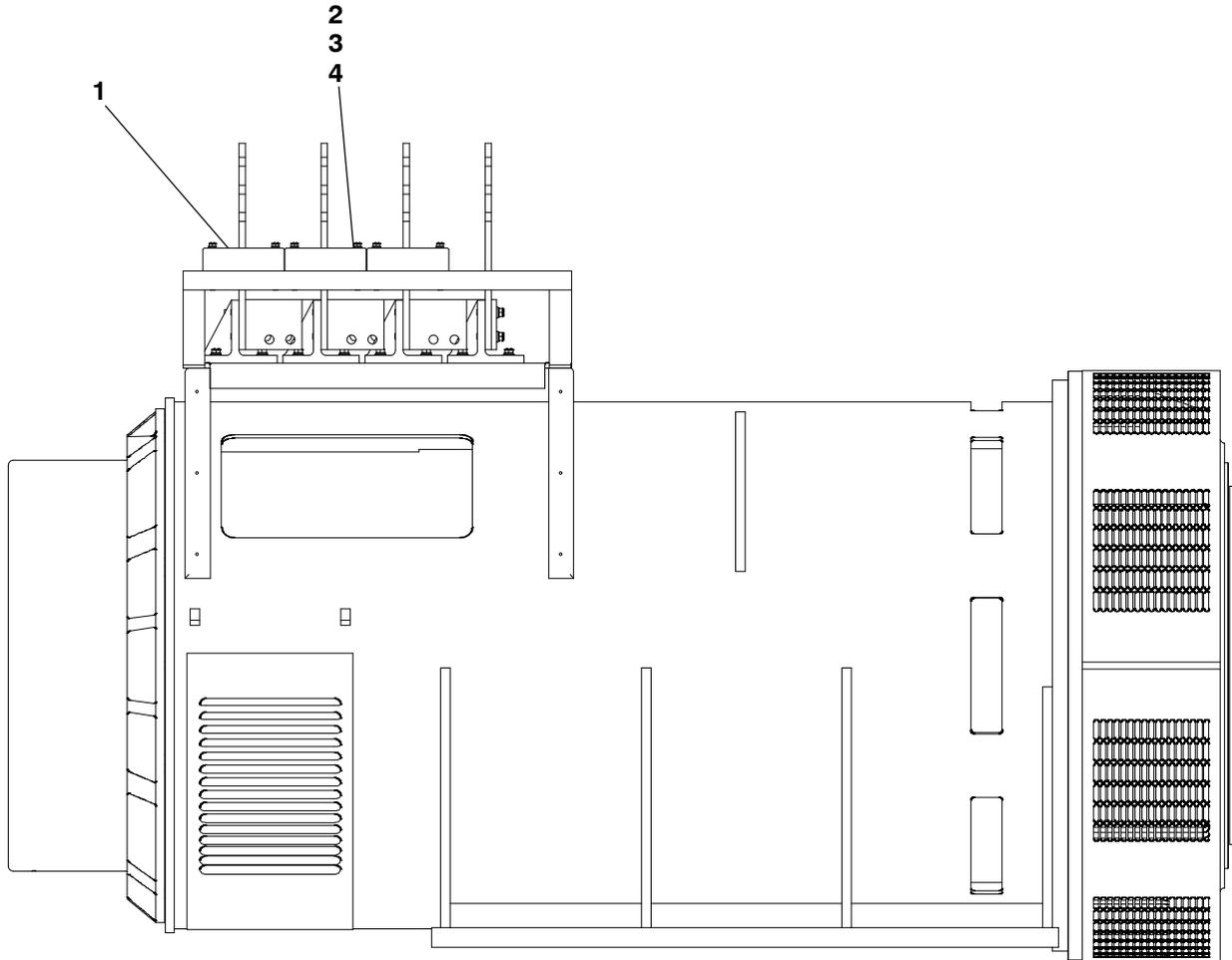
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2058-32 A/R		Transformer, Current – 5750:1	3	821-6002-02	8	Screw, Hex Head (M6)
2	319-5740-03	1	Base, Transformer				

# Transformer P7



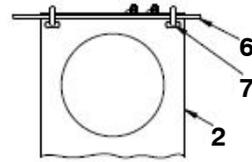
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Dual Metering/Differential Current Transformer	2			Line Side Differential Current Transformer
	315-1640-01 A/R		7000:1/5000:5		315-1618-05 A/R		5000/5
	315-1640-02 A/R		7000:1/4000:5		315-1618-01 A/R		4000/5
	315-1640-03 A/R		6000:1/5000:5		315-1618-02 A/R		3500/5
	315-1640-04 A/R		6000:1/4000:5		315-1618-03 A/R		3000/5
	315-1640-05 A/R		6000:1/3500:5	3	332-2879-02	1	Rail, Terminal
	315-1640-06 A/R		5000:1/3500:5	4	332-2878	2	Block, Terminal
	315-1640-07 A/R		5000:1/3000:5	5	332-3125-01	12	Block, Terminal
				6	332-3126-01	1	Block, Terminal
				7	338-4477	1	Harness, Transformer
				8	821-6001-03	2	Screw, Hex Head
				9	850-0114-52	2	Washer, Lock
				10	862-0026-53	2	Nut, Hex
				11	226-4696	6	Lead, Ground

# Transformer P7

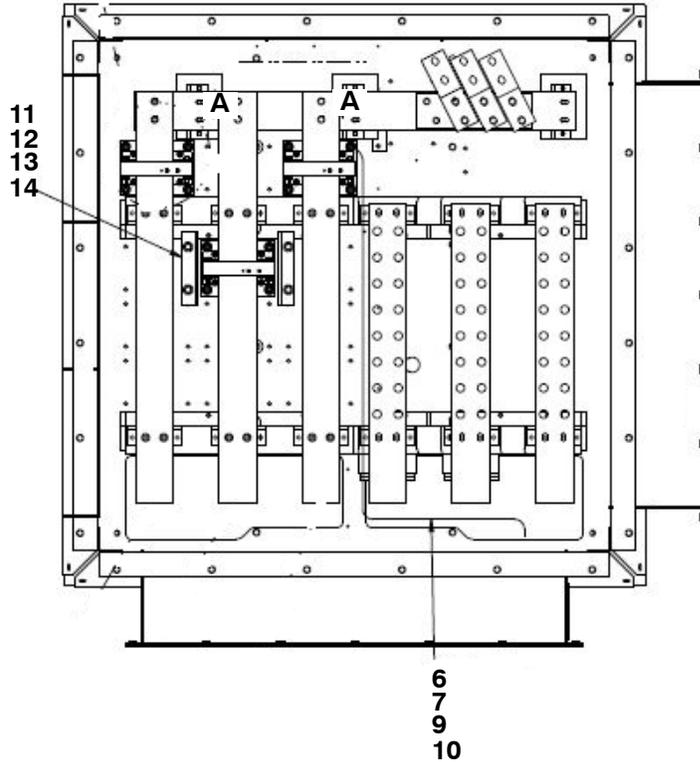
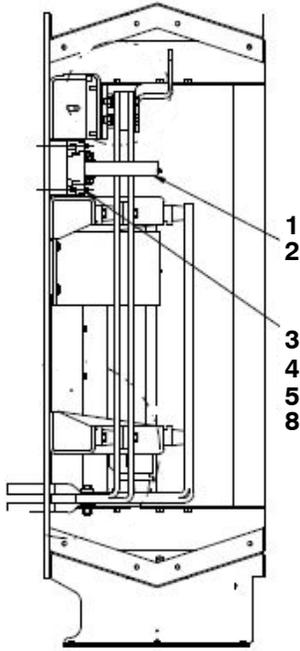


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2	800-2044	12	Screw, Cap – Hex Head (M6 x 70)
	315-1610-02 A/R	7000/1		3	526-0399-58	12	Washer, Flat
	315-1610-03 A/R	6000/1		4	850-0114-53	12	Washer, Lock
	315-1610-04 A/R	5000/1					

# Transformer P80LV

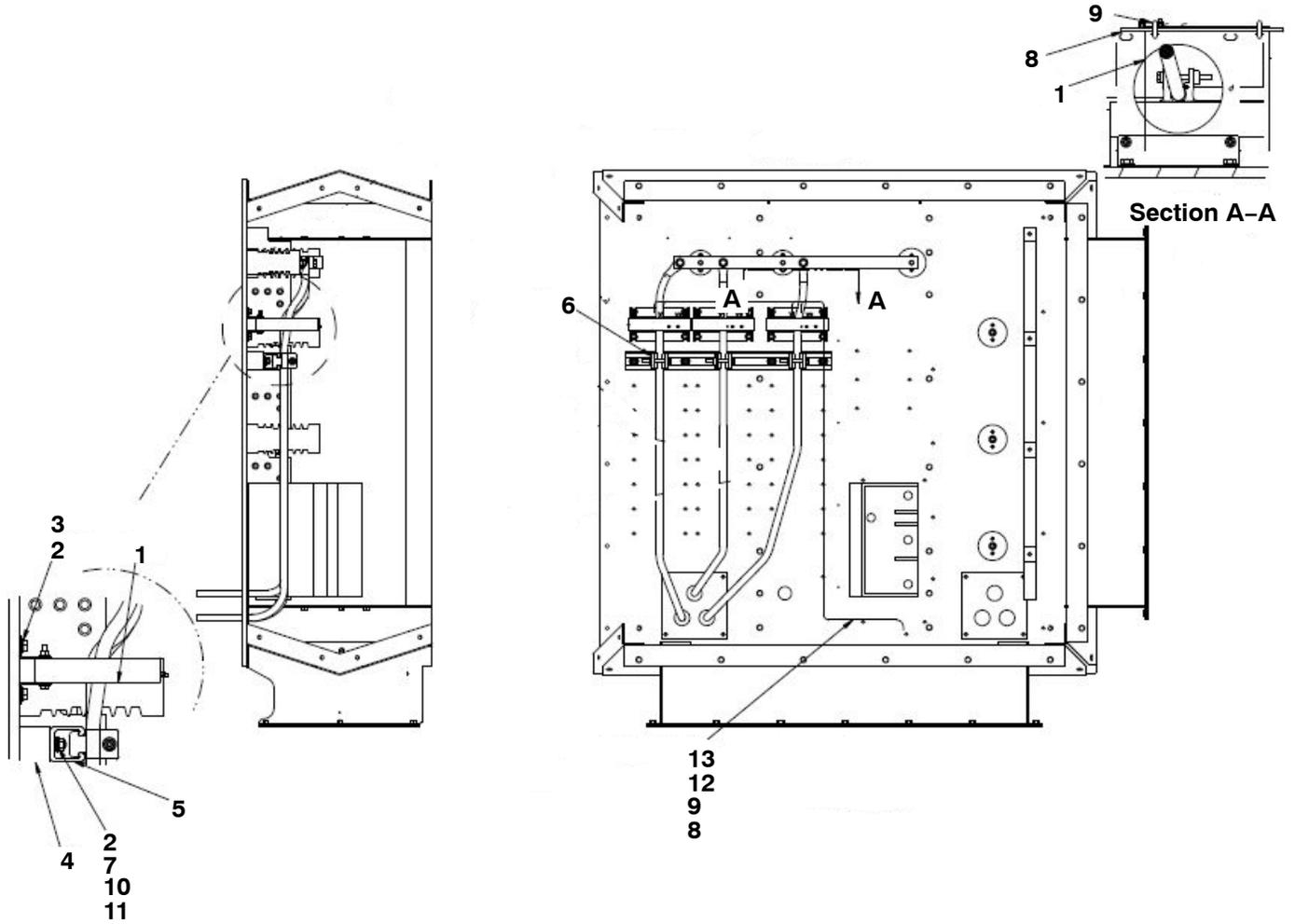


Section A-A



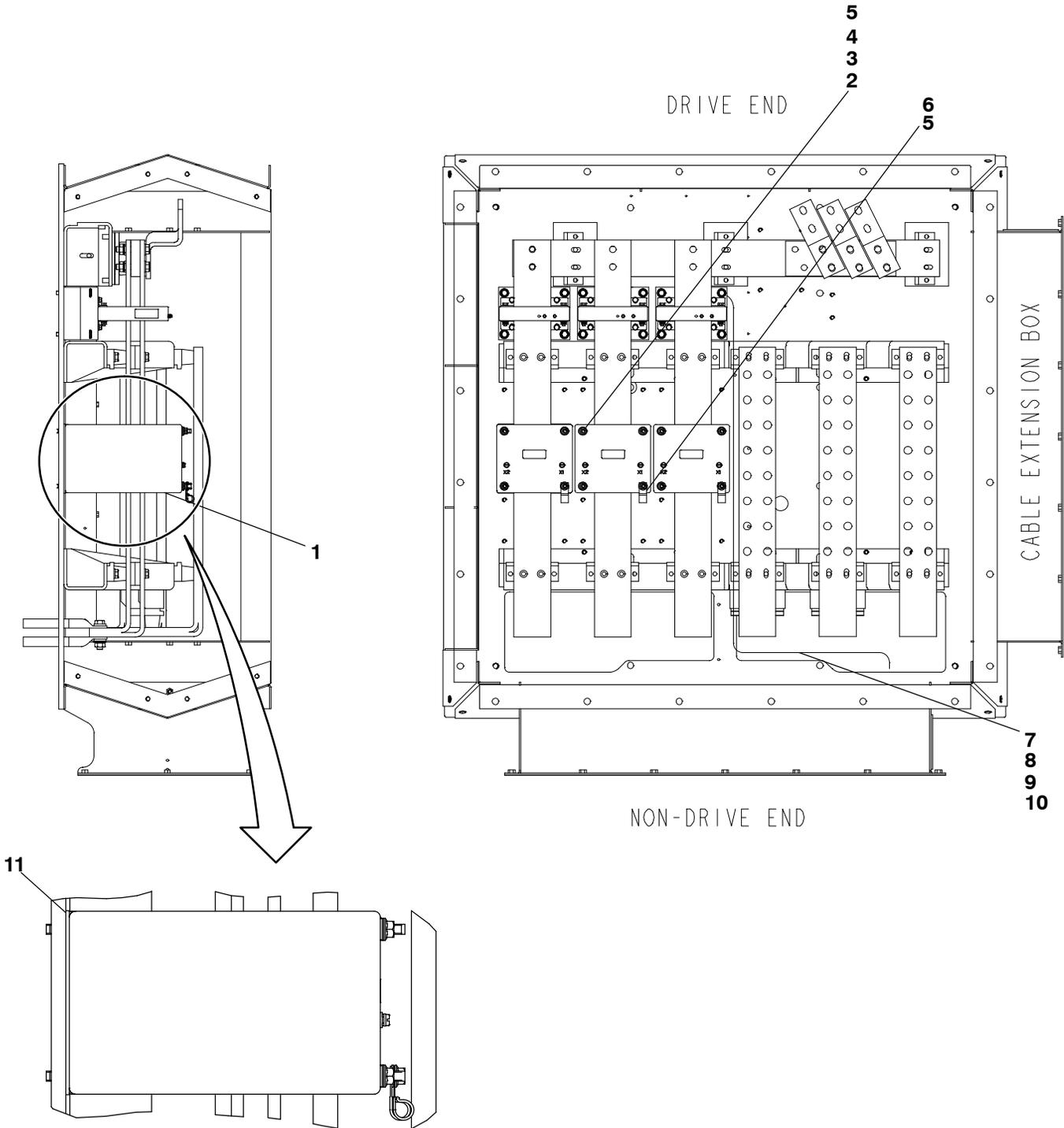
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-1673	3	Transformer, Current	7	0332-1794	1	Tie, Cable
2	315-1668-02 A/R		Transformer, Current 8000:1	8	870-2065-03	12	Nut, Hex Flange
	315-1668-03 A/R		6000:1	9	518-0515	2	Clip, Cable
	315-1668-04 A/R		5000:1	10	821-6003-02	2	Screw, Hex Head (M8 x 1.25 x 20)
3	526-0399-60	12	Washer, Flat	11	0306-5319-02	2	Shield, Busbar
4	851-0048-01	12	Washer, Belleville	12	0306-5320-02	2	Shield, Busbar
5	520-2651-04	12	Stud	13	0800-2058	4	Screw, Hex Head
6	338-5072	1	Harness-AC(CT)	14	0526-0174	4	Washer, Flat

# Metering Transformer P80 MV, HV



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040M355	3	Transformer, Current 225:1	6	0332-4152	3	Clamp, Cable
	315-1687-02 A/R		800:1	7	0851-0048-01	4	Washer, Belleville
	315-1687-05 A/R		250:1	8	0338-5072	1	Harness, Transformer
2	0526-2100	16	Washer, Flat	9	0332-1794	6	Tie, Cable
3	0800-6373-01	12	Screw, Hex Flange Head	10	0520-2651-05	4	Stud
4	0319-5970	1	Bracket, Cable	11	0870-2065-03	4	Nut, Hex Flange
5	0319-6586	1	Member, Mounting	12	0518-0548-58	2	Clamp, Hose
				13	0821-6003-02	2	Screw, Hex Head

## Differential Transformer P80 LV

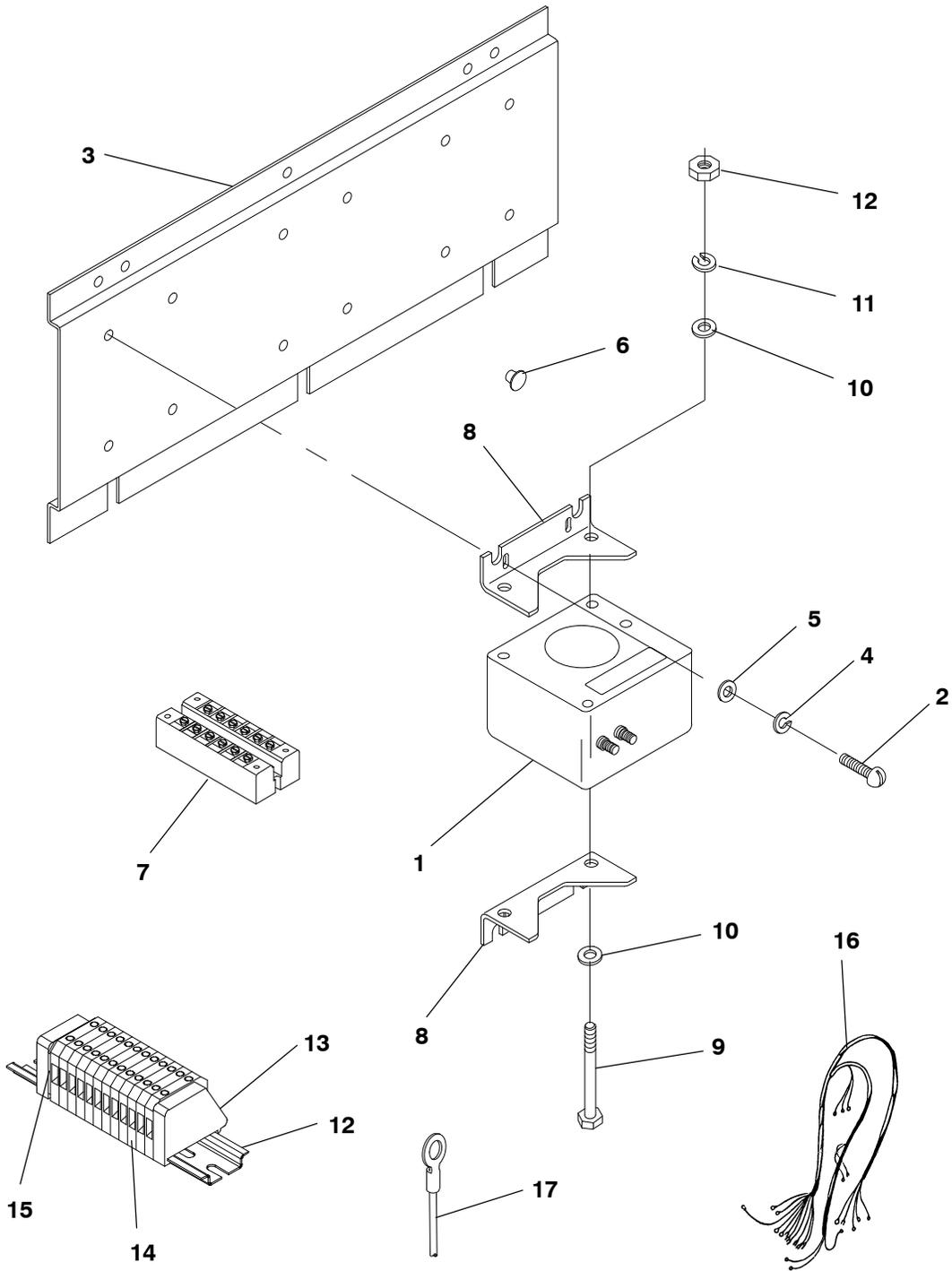


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0315-1691-02	3	Transformer, Current (5500:5)
2	526-0399-60	12	Washer, Flat
3	851-0048-01	12	Washer, Belleville
4	520-2651-01	12	Stud
5	870-2065-03	15	Nut, Hex Flange
6	0815-0515	3	Clip, Cable

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	0338-4818	1	Harness, Alternating Current
8	0332-1794	10	Tie, Cable
9	0332-4044	3	Jumper, Terminal
10	0821-6003-02	2	Screw, Hex Head
11	A049E248	3	Shim

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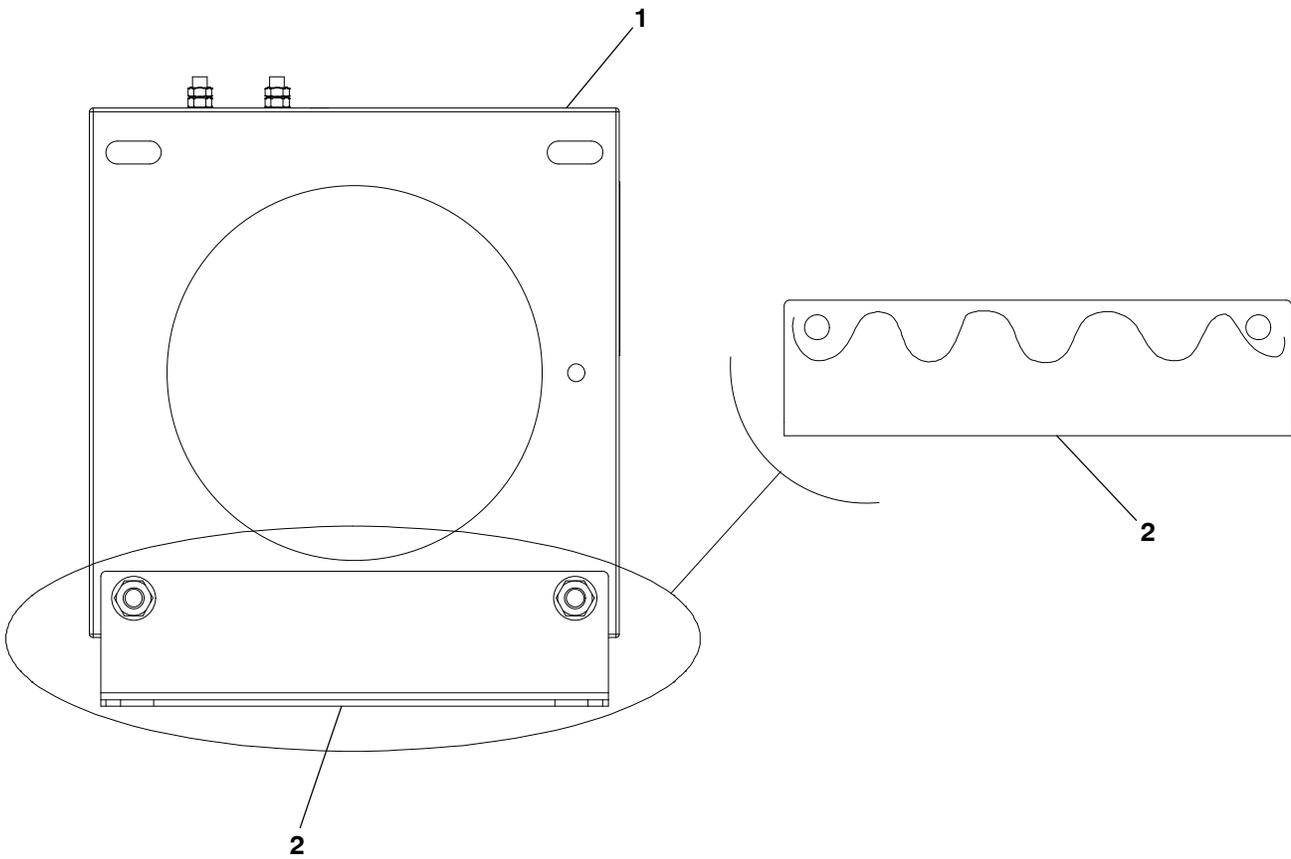
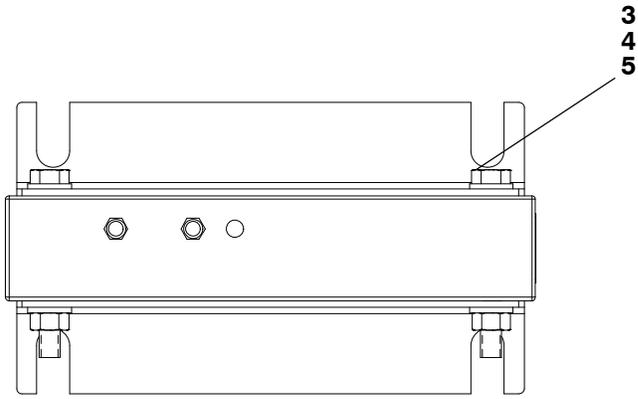
# Differential Current Transformer



## Differential Current Transformer

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current CT1,CT2,CT3)	8	800-0039	6	Screw, Cap - Hex Head (5/16-18 x 3-1/2")
	302-1945-06	3	Ratio 400/5	9	526-0022	12	Washer, Flat (5/16")
	302-1945-07	3	Ratio 500/5	10	850-0045	6	Washer, Lock - Spring (5/16")
2	813-0098	12	Screw, Machine - Round Head (#10-32 x 3/8")	11	862-0015	6	Nut, Hex (5/16-18)
3	319-1265	1	Bracket, Current Transformer	12	332-2879-02	1	Rail, Terminal
4	850-0030	12	Washer, Lock - Spring (#10)	13	332-2878	2	Block, Terminal
5	526-0008	12	Washer, Flat (#10)	14	332-3125-01	6	Block, Terminal
6	517-0090	A/R	Plug, Hole (Fits 5/16" Hole) (Quantity Used As Required)	15	332-3126-01	1	Block, Terminal
7	319-3297	6	Bracket, Foot	16	338-4475	1	Harness, Transfer - Differential
				17	226-4696	3	Lead - GND

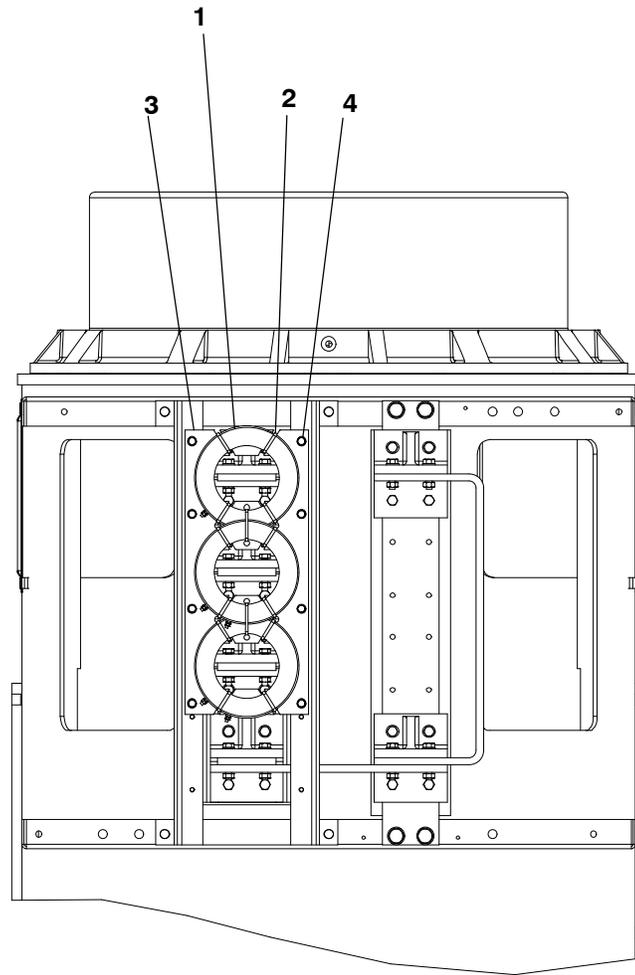
# Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040M310	1	Transformer, Current (225:1)
2	0315-1685-02	2	Bracket
3	0526-2080	4	Washer, Flat

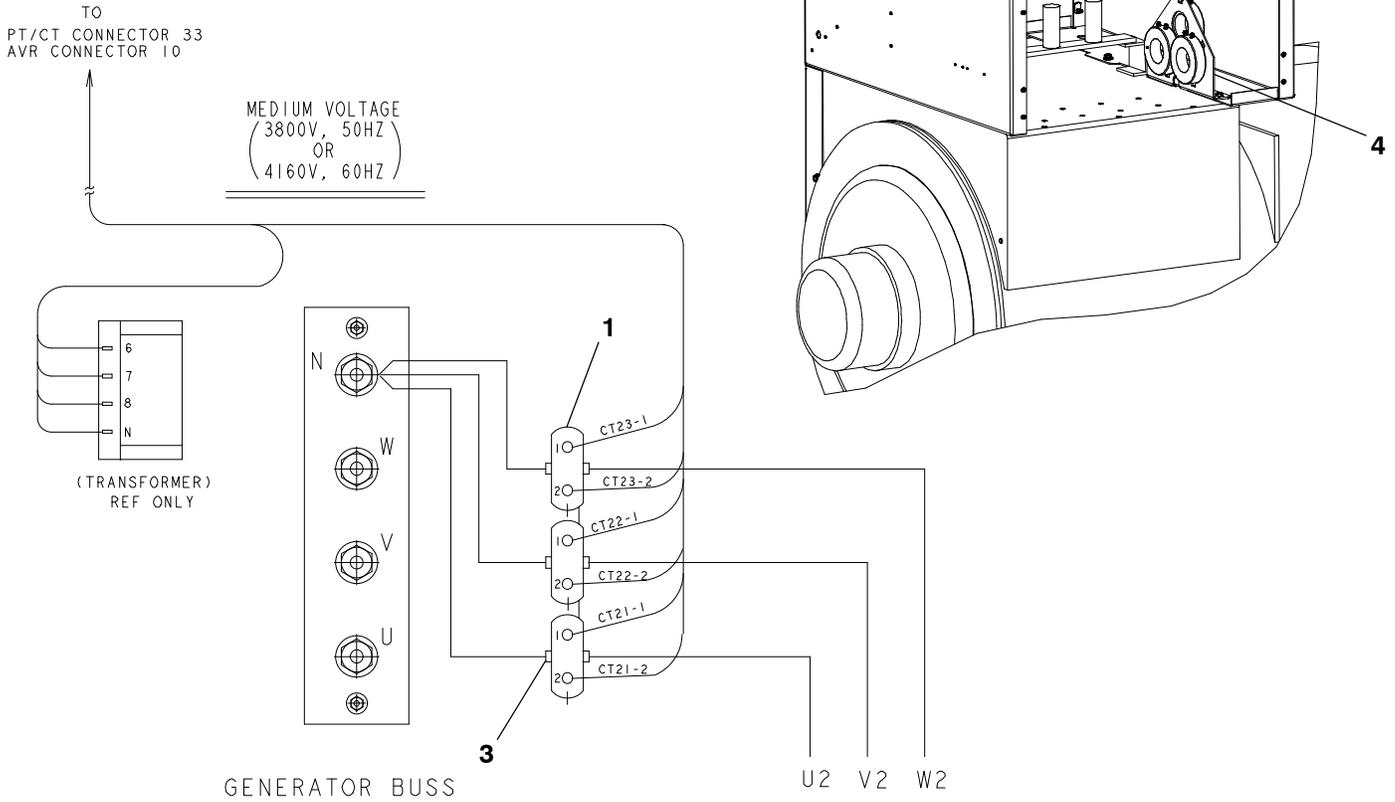
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	0800-2040	2	Screw, Hex Head
5	0870-0506	2	Nut, Nylon Lock

# Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2058-32	4	Transformer, Current (5750:1)	3	0319-5740-03	1	Base, Mounting
2	0332-1389	14	Tie, Cable	4	0821-6002-03	8	Screw, Hex Head

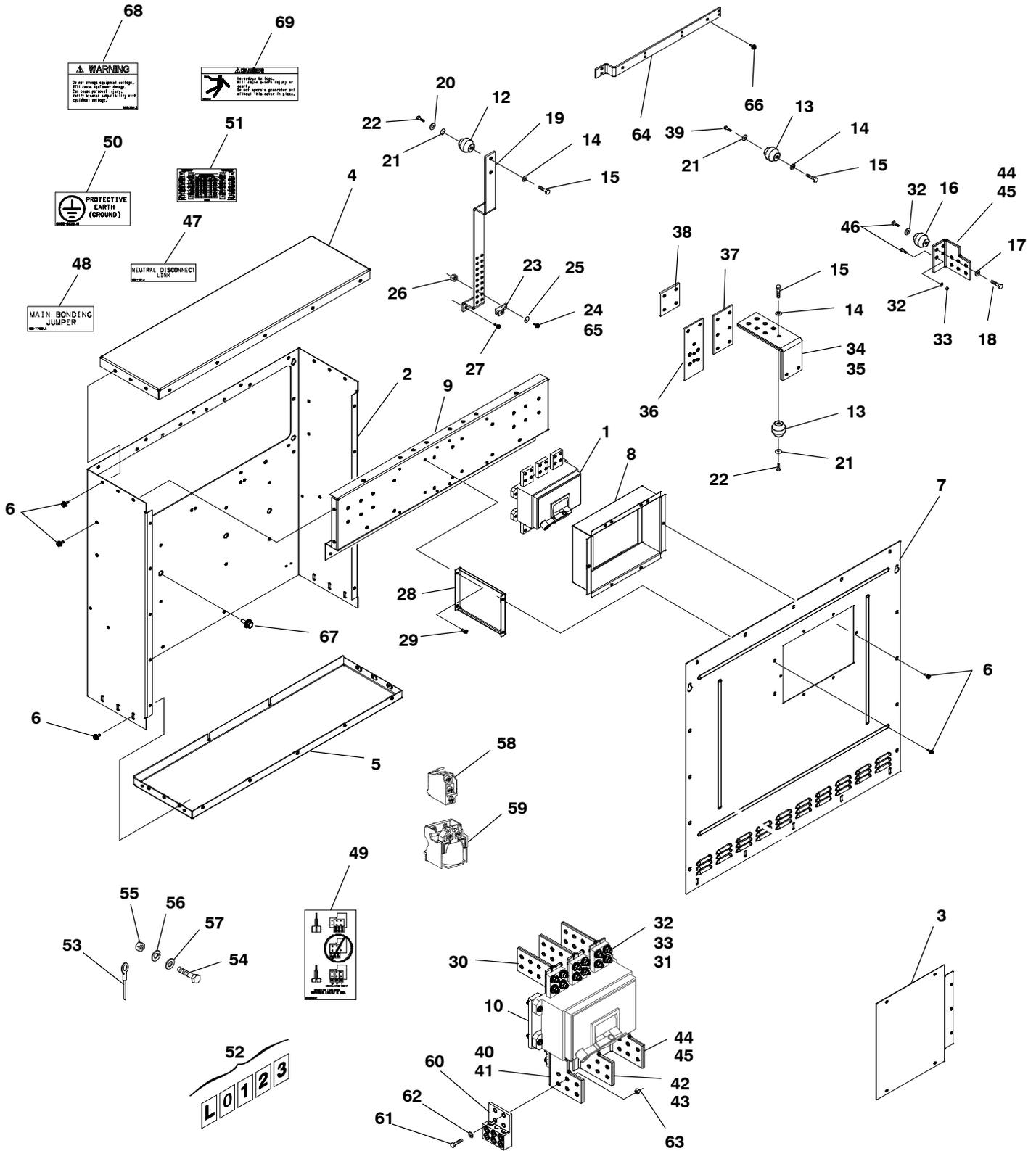
# Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	302-2058-36	4	Transformer, Current (5750:1)	3	A029E902	3	Sleeve, Insulation
2	0332-3008	14	Tie, Cable (Not Shown)	4	0319-7151	1	Base, Transformer

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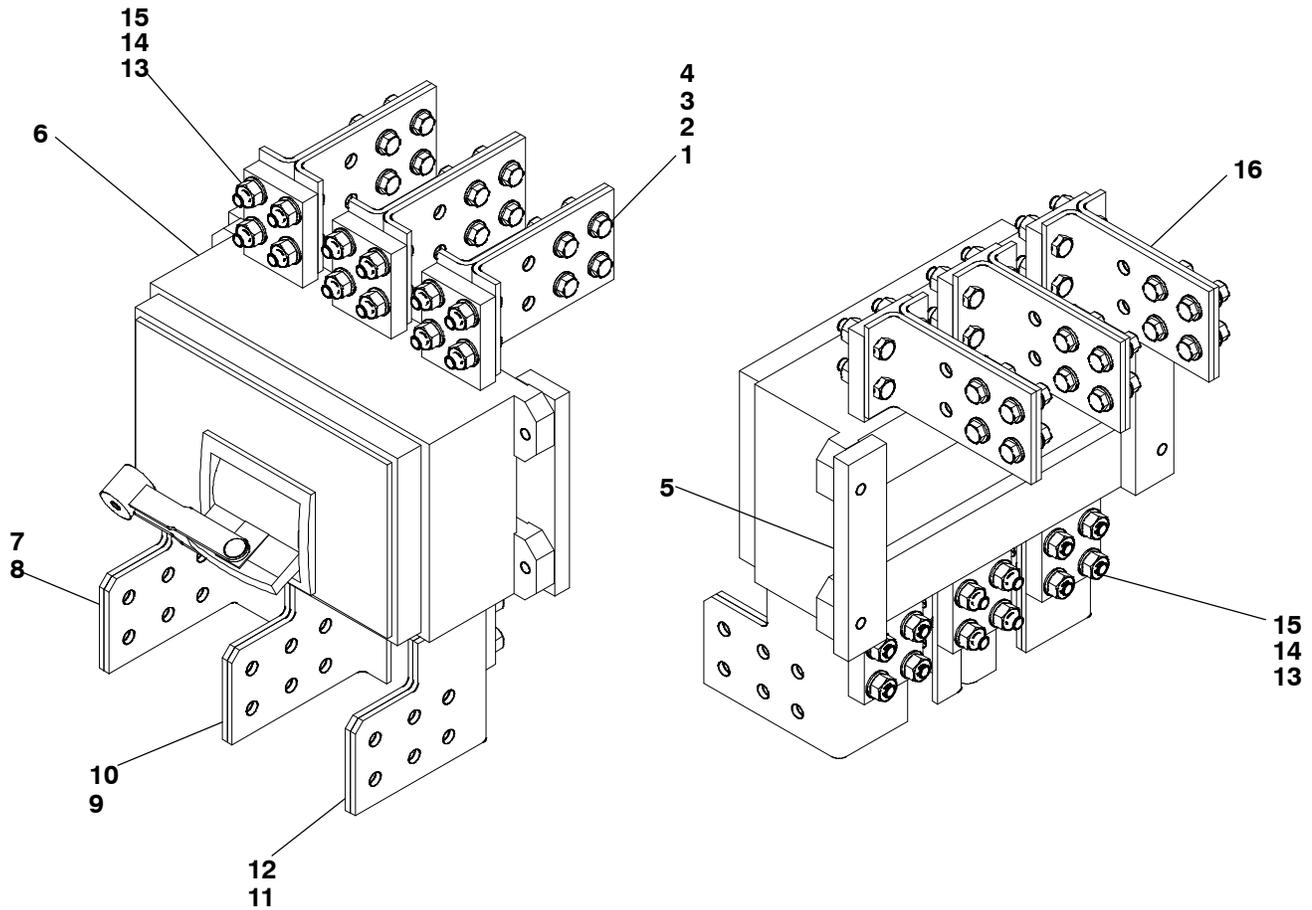
# Circuit Breaker (Spec A-D)



## Circuit Breaker (Spec A-D)

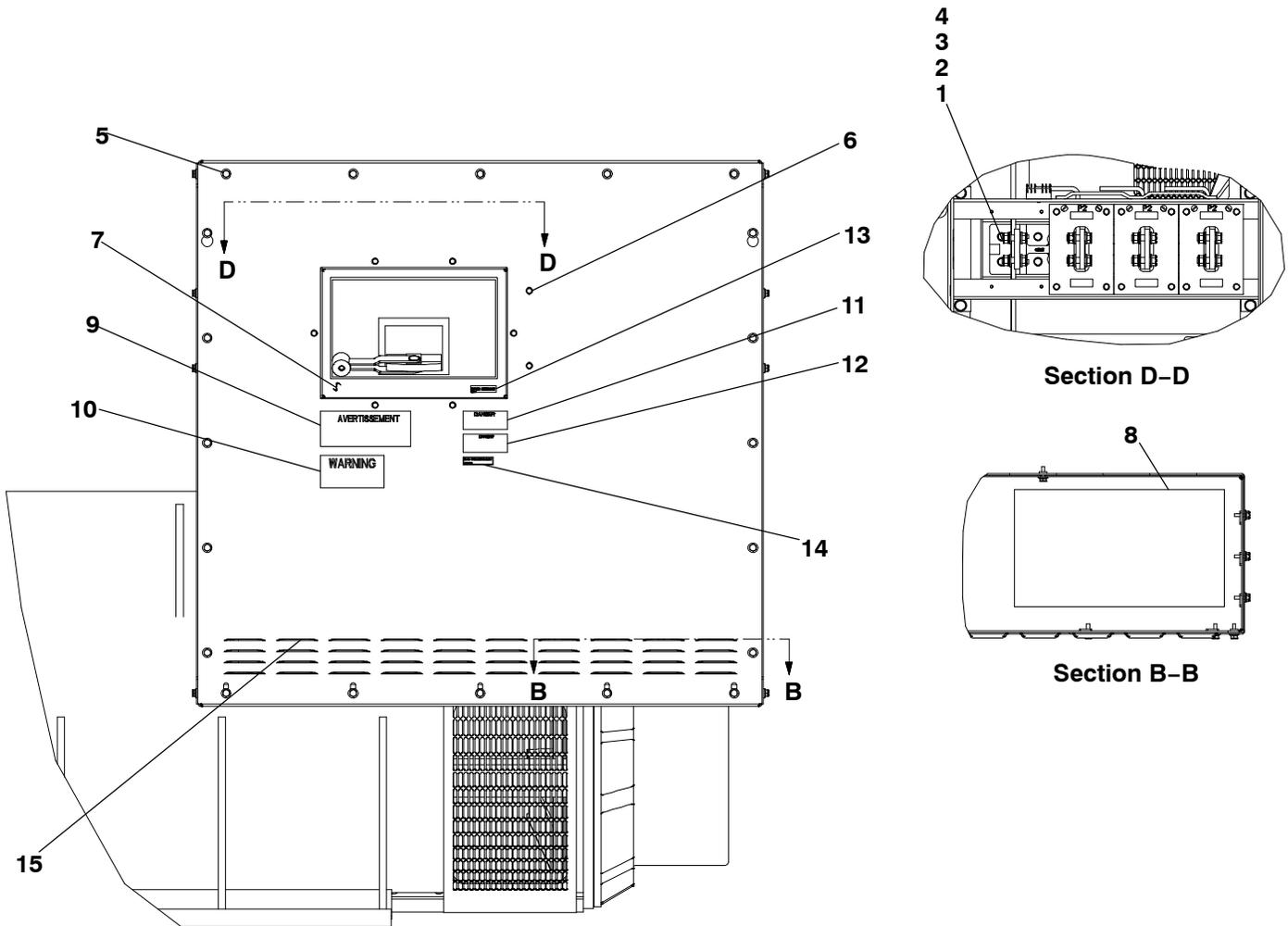
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit – 3 Pole (UL & IEC) (Includes Mounting Hardware)	41			Bus, Bar – Breaker
	320-2164-03	1	1600 Amp		337-3621-02	2	Left Side Insulation
	320-2164-02	1	2000 Amp		337-3621-02	1	Right Side Insulation
	320-2164-01	1	2500 Amp	42	337-3619-01	1	Bus, Bar – Breaker
2	319-5161-02	1	Box, Circuit Breaker	43	337-3619-02	1	Bus, Bar – Breaker
3	319-5084-02	1	Panel, Terminal	44			Bus, Bar – Breaker
4	319-5171-02	1	Cover, Circuit Breaker – Top		337-3620-01	1	Left Side Insulation
5	319-5088-02	1	Cover, Circuit Breaker – Bottom		337-3620-01	2	Right Side Insulation
6	821-6003-02	54	Screw, Hex Head (M8 x 1.25 x 20)	45			Bus, Bar – Breaker
7			Cover, Circuit Breaker		337-3621-01	1	Left Side Insulation
	319-5176-04	1	Left Side Installation		337-3621-01	2	Right Side Insulation
	319-5176-05	1	Right Side Installation	46	800-0093	4	Screw, Cap – Hex Head (1/2-13 x 1.75)
8	319-5078-04	1	Cup, Switch	47	098-7701	1	Label, Neutral Disconnect
9	319-5177-02	1	Bracket, Circuit Breaker	48	098-7700	1	Label, Bonding – Jumper
10	232-4131	2	Spacer, Mounting Foot	49	098-8149	1	Label, Information – Lug Installation
11	098-8144	1	Label, Information – Service Disconnect	50	098-6635	1	Label, Ground
12	332-2744-07	2	Standoff, Insulator	51	098-6865	1	Label, Conduit Location
13	332-2512	5	Standoff, Insulator	52			Label, Marker (10 Characters Per Card) (Quantity Used As Required)
14	850-0050	7	Washer, Lock – Split (3/8)		098-5854-06	4	Marked “L”
15	800-0048	7	Screw, Cap – Hex Head (3/8-16 x .75)		098-5854-07	1	Marked “1”
					098-5854-08	1	Marked “2”
16	332-2743-07	1	Standoff, Insulator		098-5854-09	1	Marked “3”
17	850-0060	1	Washer, Lock – Split (1/2)		098-5854-10	1	Marked “0”
18	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1.00)	53			Lead (Quantity Used As Required)
19	337-3626	1	Bus, Bar – Ground		226-4894-08	1	23”
20	526-0423	2	Washer, Flat		226-4894-02	1	18”
21	851-0048-02	7	Washer, Belleville (3/8)	54	718-1076	30	Screw, Cap – Hex Head (M12 x 1.75 x 40)
22	800-0050	3	Screw, Cap – Hex Head (3/8-16 x 1”)	55	860-2010	30	Nut, Hex (M12)
23	332-3039	7	Lug, Solderless	56	850-2012	30	Washer, Lock – Split (M12)
24	800-0028	5	Screw, Cap – Hex Head (5/16-18 x 1”)	57	526-2140	30	Washer, Flat (M12)
25	851-0048-01	7	Washer, Belleville (5/16)	58	320-2196-01	2	<b>Accessories, Circuit Breaker:</b> Switch – Used as a Trip Alarm or Auxiliary Contact
26	862-0015	7	Nut, Hex (5/16)	59	320-2196-02	1	24 Volt Shunt Trip
27	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)	60	332-3949	8	Lug, Cable – Solderless
28	319-5102-03	1	Stiffener, Cover	61	800-0054	16	Screw, Cap – Hex Head (3/8-16 x 2.00)
29	821-6002-04	10	Screw, Hex Head (M6 x 1 x 20)	62	851-0022	16	Washer, Spring (3/8)
30	337-3618	6	Bus, Bar – Breaker	63	862-0003	16	Nut, Hex (3/8)
31	800-0094	24	Screw, Cap – Hex Head (1/2-13 x 2)	64	337-3736	1	Bus, Bar – Ground
32	851-0048-03	28	Washer, Belleville (1/2)	65	800-0030	2	Screw, Cap – Hex Head (5/16-18 x 1-1/4)
33	862-0005	27	Nut, Hex (1/2)	66	800-2063	2	Screw, Cap – Hex Head (M8 x 50)
34	337-3623	1	Bus, Bar – Neutral	67	821-6003-03	6	Screw, Cap – Hex Head (M8 x 1.25 x 25)
35	337-3624	1	Bus, Bar – Neutral	68			Label, Warning
36	337-3631	2	Bus, Bar – Neutral		098-2304	2	English
37	337-3625	1	Bus, Bar – Jumper		098-2304-01	2	French
38	337-3627	1	Bus, Bar – Neutral	69			Label, Danger
39	800-0052	4	Screw, Cap – Hex Head (3/8-16 x 1.5)		098-5347	1	English
40			Bus, Bar – Breaker		098-5347-02	1	French
	337-3620-02	2	Left Side Insulation				
	337-3620-02	1	Right Side Insulation				

**Circuit Breaker  
R-Frame Left Side 1600–2500 Amp (Begin Spec E) (Illustration #1)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2140	64	Washer, Flat (M12)	7	337-3620-02	2	Bus, Bar - Breaker (Left)
2	0800-2114	32	Screw, Hex Head	8	337-3621-01	2	Bus, Bar - Breaker (Right)
3	850-2012	32	Washer, Lock - Split (M12)	9	337-3619-01	1	Bus, Bar - Breaker
4	0860-2010	32	Nut	10	337-3619-02	1	Bus, Bar - Breaker
5	232-4131	2	Spacer, Mounting Foot	11	337-3620-01	1	Bus, Bar - Breaker
6			Breaker, Circuit - 3 Pole (UL & IEC) (Includes Mounting Hardware)	12	337-3621-01	1	Bus, Bar - Breaker (Left)
	320-2164-03	1	1600 Amp	13	800-0094	27	Screw, Cap - Hex Head (1/2-13 x 2)
	320-2164-02	1	2000 Amp	14	851-0048-03	27	Washer, Belleville (1/2)
	320-2164-01	1	2500 Amp	15	862-0005	27	Nut, Hex (1/2)
				16	337-3618	6	Bus, Bar - Breaker

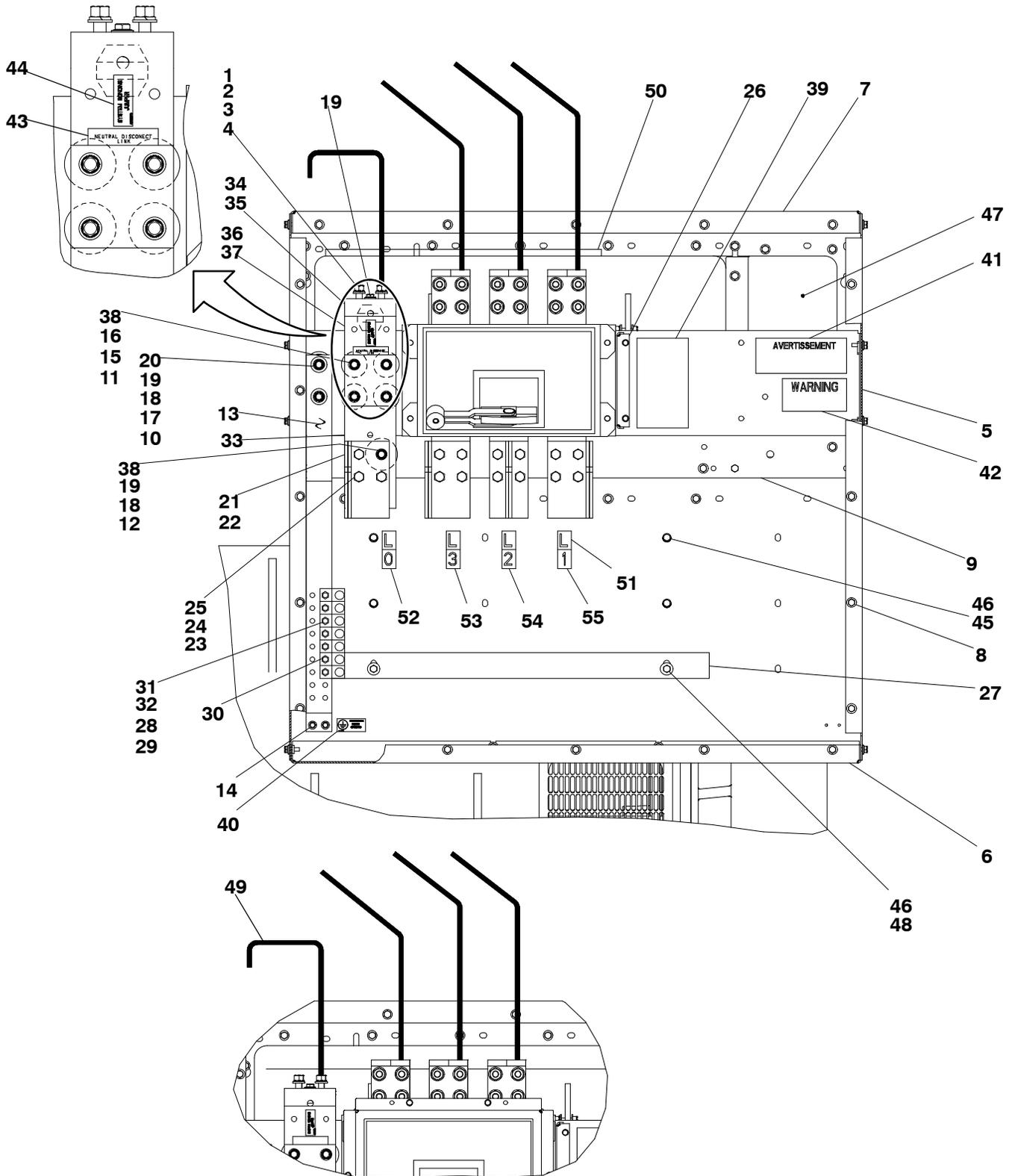
**Circuit Breaker  
R-Frame Left Side 1600–2500 Amp (Begin Spec E) (Illustration #2)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2140	64	Washer, Flat (M12)	9	0098-2304-01	2	Label, Warning
2	0800-2114	32	Screw, Hex Head	10	0098-2304	2	Label, Warning
3	850-2012	32	Washer, Lock - Split (M12)	11	0098-5347	1	Label, Danger
4	0860-2010	32	Nut	12	0098-5347-02	1	Label, Danger
5	821-6003-02	50	Screw, Hex Head (M8 x 1.25 x 20)	13	098-8144	1	Label, Information - Service Disconnect
6	821-6002-03	10	Screw, Hex Head (M6 x 1 x 20)	14	A035D601	1	Label, Information
7	319-5078-04	1	Cover, Switch	15	A040B093	1	Cover, Circuit Breaker Box
8	098-6865	1	Label, Wiring				

# Circuit Breaker

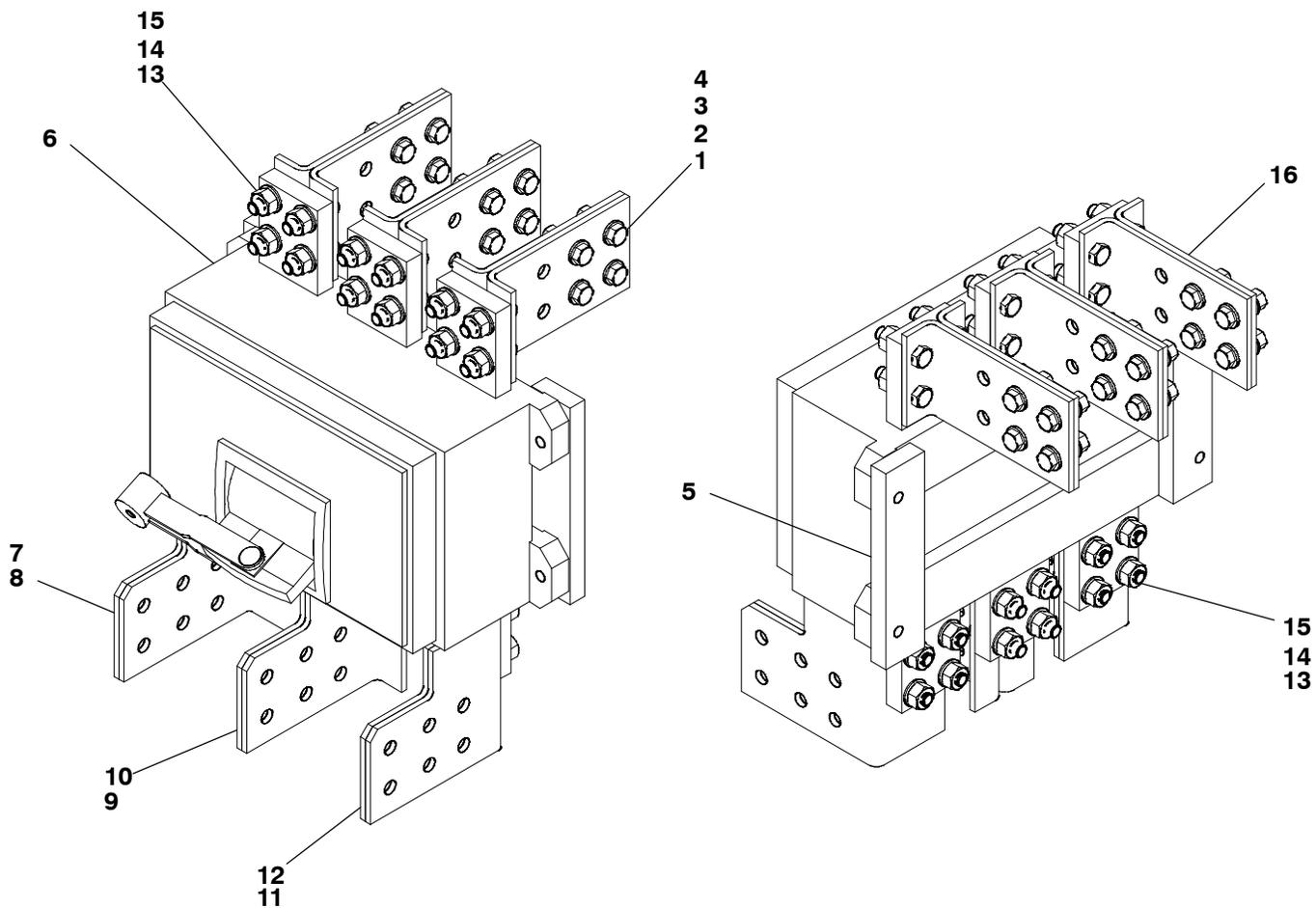
## R-Frame Left Side 1600–2500 Amp (Begin Spec E) (Illustration #3)



**Circuit Breaker**  
**R-Frame Left Side 1600–2500 Amp (Begin Spec E) (Illustration #3)**

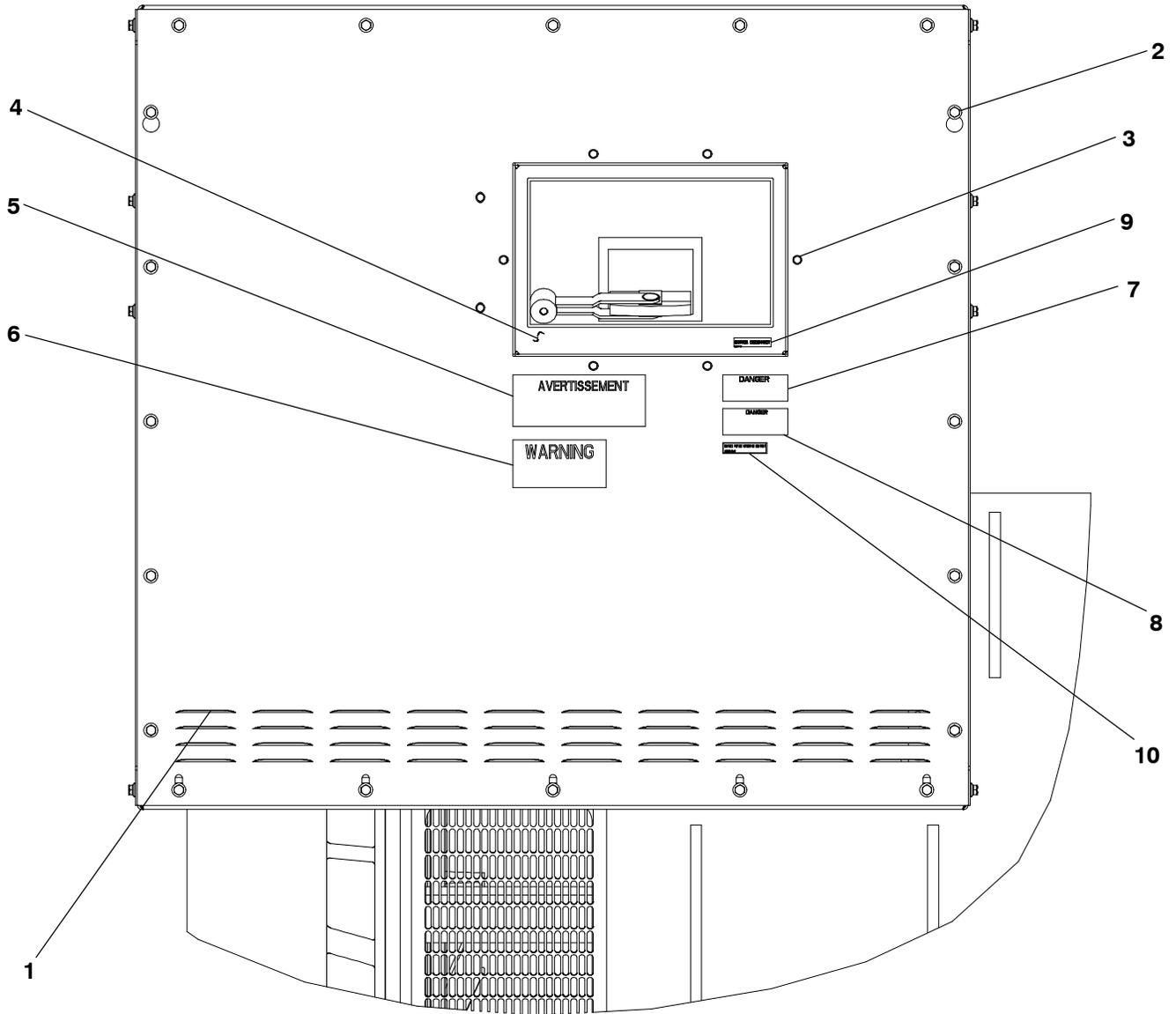
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2140	64	Washer, Flat (M12)	28	332-3039	7	Lug, Solderless
2	0800-2114	32	Screw, Hex Head	29	800-0028	5	Screw, Cap – Hex Head (5/16–18 x 1")
3	850-2012	32	Washer, Lock – Split (M12)				
4	0860-2010	32	Nut	30	800-0030	2	Screw, Hex Head
5	A040B345	1	Box, Circuit Breaker	31	851-0048-01	7	Washer, Belleville (5/16)
6	319-5171-02	1	Cover, Circuit Breaker	32	862-0015	7	Nut, Hex (5/16)
7	319-5088-02	1	Cover, Circuit Breaker	33	337-3631	2	Bus, Bar – Neutral
8	821-6003-02	50	Screw, Hex Head (M8 x 1.25 x 20)	34	337-3623	1	Bus, Bar – Neutral
				35	337-3624	1	Bus, Bar – Neutral
9	319-5177-02	1	Bracket, Circuit Breaker	36	337-3625	1	Bus, Bar – Jumper
10	332-2744-07	2	Standoff, Insulator	37	337-3627	1	Bus, Bar – Neutral
11	332-2512	5	Standoff, Insulator	38	800-0052	6	Screw, Cap – Hex Head (3/8–16 x 1.5)
12	332-2743-07	1	Standoff, Insulator				
13	337-3626	1	Bus, Bar – Ground	39	098-8149	1	Label, Information – Lug Installation
14	815-0261	2	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	40	098-6635	1	Label, Ground
				41	0098-2304-01	2	Label, Warning
15	850-0050	8	Washer, Lock – Split (3/8)	42	0098-2304	2	Label, Warning
16	800-0048	8	Screw, Cap – Hex Head (3/8–16 x .75)	43	098-7701	1	Label, Neutral
				44	A029G676	1	Label, Information
17	0526-0423	2	Washer	45	0526-0399-60	4	Washer, Flat
18	851-0048-02	8	Washer, Belleville (3/8)	46	800-2063	6	Screw, Cap – Hex Head (M8 x 50)
19	800-0050	3	Screw, Cap – Hex Head (3/8–16 x 1")	47	A041Z271	1	Panel, Terminal Box
20	232-4131	2	Spacer, Mounting Foot	48	0526-0399-61	2	Washer, Flat
21	337-3620-02	2	Bus, Bar – Breaker (Left)	49	226-4894-08	48	Lead
22	337-3621-01	2	Bus, Bar – Breaker (Right)	50	0508-1109	–	Edging (2.8 Foot)
23	800-0094	27	Screw, Cap – Hex Head (1/2–13 x 2)	51	098-5854-06	4	Label, Marker "L"
				52	098-5854-10	1	Label, Marker "0"
24	851-0048-03	27	Washer, Belleville (1/2)	53	098-5854-09	1	Label, Marker "3"
25	862-0005	27	Nut, Hex (1/2)	54	098-5854-08	1	Label, Marker "2"
26	319-5102-03	1	Brace, Cover	55	098-5854-07	1	Label, Marker "1"
27	A040B391	1	Busbar, Ground				

## Circuit Breaker R-Frame Right Side 1600–2500 Amp (Begin Spec E) (Illustration #1)



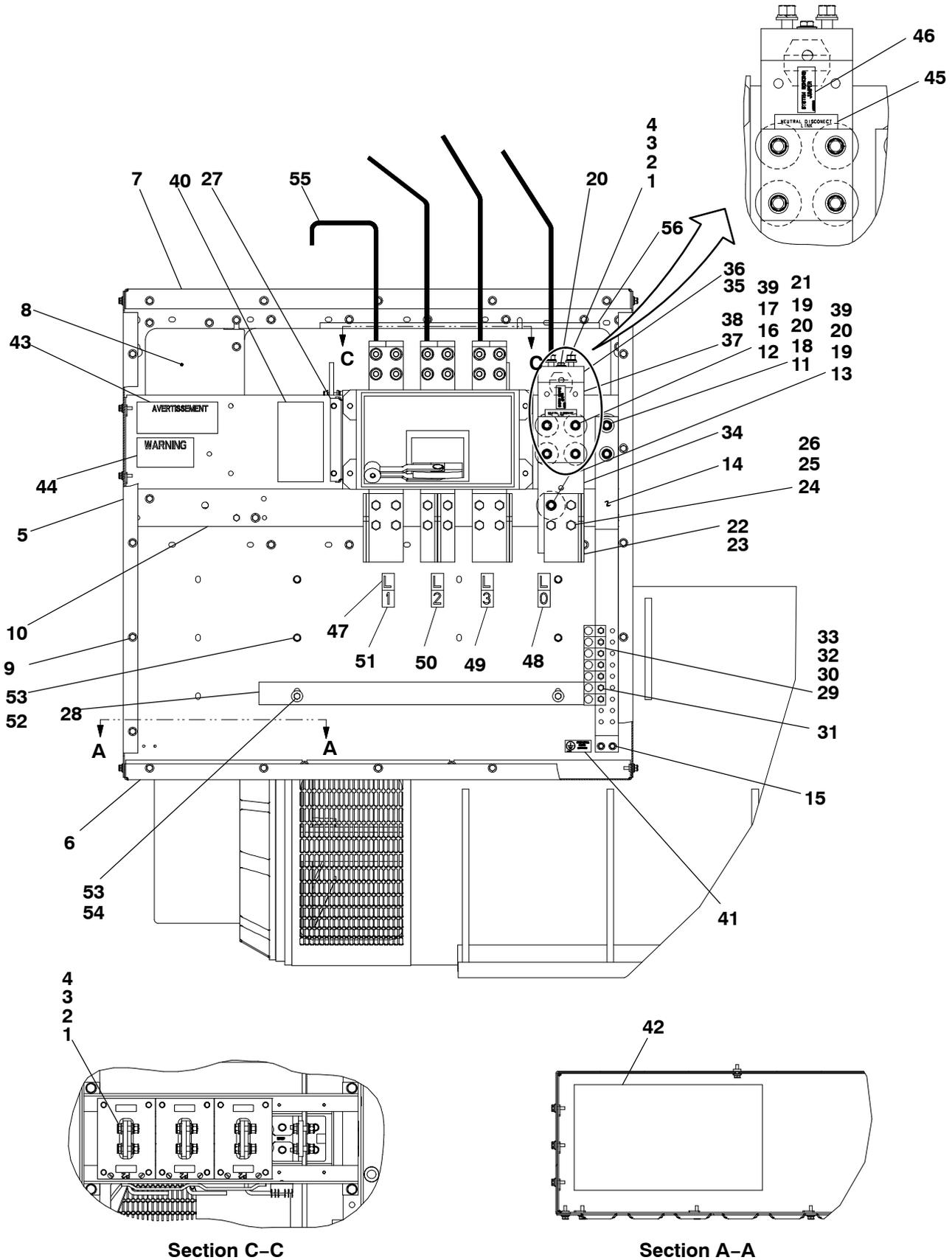
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2140	64	Washer, Flat (M12)	7	337-3620-02	1	Busbar, Breaker
2	0800-2114	32	Screw, Hex Head	8	337-3621-01	1	Busbar, Breaker
3	850-2012	32	Washer, Lock - Split (M12)	9	337-3619-01	1	Busbar, Breaker
4	0860-2010	32	Nut	10	337-3619-02	1	Busbar, Breaker
5	232-4131	2	Spacer, Mounting Foot	11	337-3620-01	2	Busbar, Breaker
6			Breaker, Circuit - 3 Pole (UL & IEC) (Includes Mounting Hardware)	12	337-3621-01	2	Busbar, Breaker
	320-2164-03	1	1600 Amp	13	800-0094	27	Screw, Cap - Hex Head (1/2-13 x 2)
	320-2164-02	1	2000 Amp	14	851-0048-03	27	Washer, Belleville (1/2)
	320-2164-01	1	2500 Amp	15	862-0005	27	Nut, Hex (1/2)
				16	337-3618	6	Busbar, Breaker

## Circuit Breaker R-Frame Right Side 1600–2500 Amp (Begin Spec E) (Illustration #2)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040A937	1	Cover, Circuit Breaker Box	6	0098-2304	2	Label, Warning
2	821-6003-02	50	Screw, Hex Head (M8 x 1.25 x 20)	7	0098-5347	1	Label, Danger
3	821-6002-03	10	Screw, Hex Head (M6 x 1 x 20)	8	0098-5347-02	1	Label, Danger
4	319-5078-04	1	Cover, Switch	9	098-8144	1	Label, Information – Service Disconnect
5	0098-2304-01	2	Label, Warning	10	A035D601	1	Label, Information

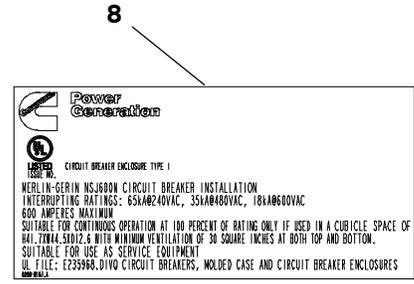
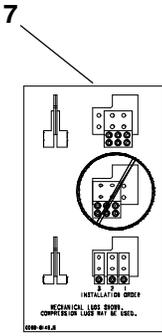
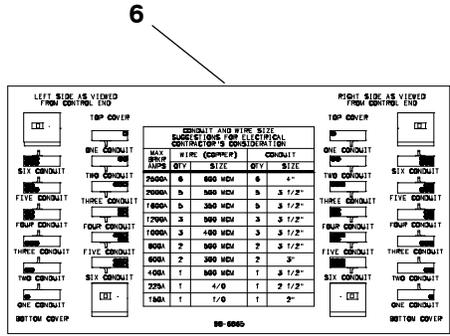
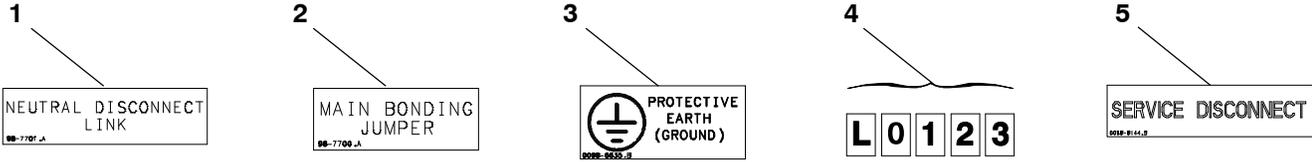
# Circuit Breaker R-Frame Right Side 1600–2500 Amp (Begin Spec E) (Illustration #3)



**Circuit Breaker**  
**R-Frame Right Side 1600–2500 Amp (Begin Spec E) (Illustration #3)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-2140	64	Washer, Flat (M12)	29	332-3039	7	Lug, Solderless
2	0800-2114	32	Screw, Hex Head	30	800-0028	5	Screw, Cap – Hex Head (5/16–18 x 1")
3	850-2012	32	Washer, Lock – Split (M12)	31	800-0030	2	Screw, Hex Head
4	0860-2010	32	Nut	32	851-0048-01	7	Washer, Belleville (5/16)
5	A040B345	1	Box, Circuit Breaker	33	862-0015	7	Nut, Hex (5/16)
6	319-5171-02	1	Cover, Circuit Breaker	34	337-3631	2	Busbar, Neutral
7	319-5088-02	1	Cover, Circuit Breaker	35	337-3623	1	Busbar, Neutral
8	A041Z273	1	Panel, Terminal Box	36	337-3624	1	Busbar, Neutral
9	821-6003-02	50	Screw, Hex Head (M8 x 1.25 x 20)	37	337-3625	1	Busbar, Jumper
10	319-5177-02	1	Bracket, Circuit Breaker	38	337-3627	1	Busbar, Neutral
11	332-2744-07	2	Standoff, Insulator	39	800-0052	6	Screw, Cap – Hex Head (3/8–16 x 1.5)
12	332-2512	5	Standoff, Insulator	40	098-8149	1	Label, Information – Lug Installation
13	332-2743-07	1	Standoff, Insulator	41	098-6635	1	Label, Ground
14	337-3626	1	Busbar, Ground	42	098-6865	1	Label, Wiring
15	815-0261	2	Screw, Hollow Head – Thread Forming (1/4–20 x .50)	43	0098-2304-01	2	Label, Warning
16	850-0050	8	Washer, Lock – Split (3/8)	44	0098-2304	2	Label, Warning
17	800-0048	8	Screw, Cap – Hex Head (3/8–16 x .75)	45	098-7701	1	Label, Neutral
18	0526-0423	2	Washer	46	A029G676	1	Label, Information
19	851-0048-02	8	Washer, Belleville (3/8)	47	098-5854-06	4	Label, Marker "L"
20	800-0050	3	Screw, Cap – Hex Head (3/8–16 x 1")	48	098-5854-10	1	Label, Marker "0"
21	232-4131	2	Spacer, Mounting Foot	49	098-5854-09	1	Label, Marker "3"
22	337-3620-01	2	Busbar, Breaker	50	098-5854-08	1	Label, Marker "2"
23	337-3621-01	2	Busbar, Breaker	51	098-5854-07	1	Label, Marker "1"
24	800-0094	27	Screw, Cap – Hex Head (1/2–13 x 2)	52	0526-0399-60	4	Washer, Flat
25	851-0048-03	27	Washer, Belleville (1/2)	53	800-2063	6	Screw, Cap – Hex Head (M8 x 50)
26	862-0005	27	Nut, Hex (1/2)	54	0526-0399-61	2	Washer, Flat
27	319-5102-03	1	Brace, Cover	55	226-4894-08	48	Lead
28	A040B391	1	Busbar, Ground	56	0508-1109	-	Edging (2.8 Foot)

# Labels – Circuit Breaker



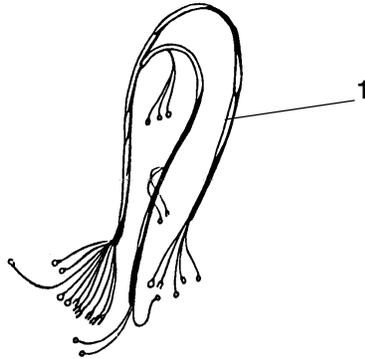
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7701	1	Label, Neutral Disconnect Link	8			Label, Information
2	098-7700	1	Label, Bonding Jumper	098-8169	1		P-Frame – 1200 Amp (150V Line to Neutral Maximum)
3	098-6635	1	Label, Ground				
4			Label, Marker (10 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)				

# Muffler



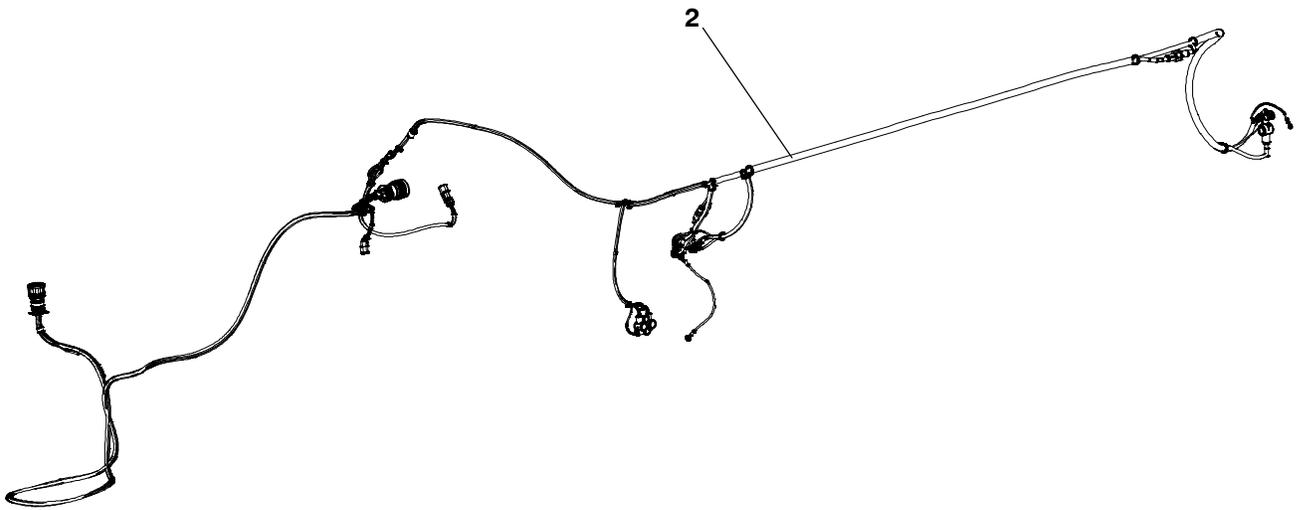
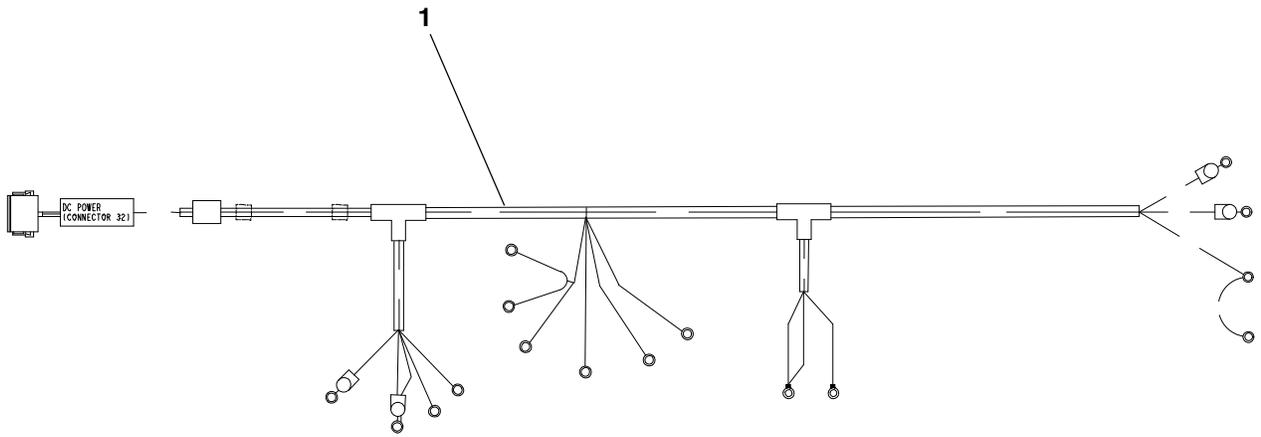
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Muffler				
	155-2341-10	1	Residential				
	155-2342-10	1	Critical				

## Wiring Harness AC



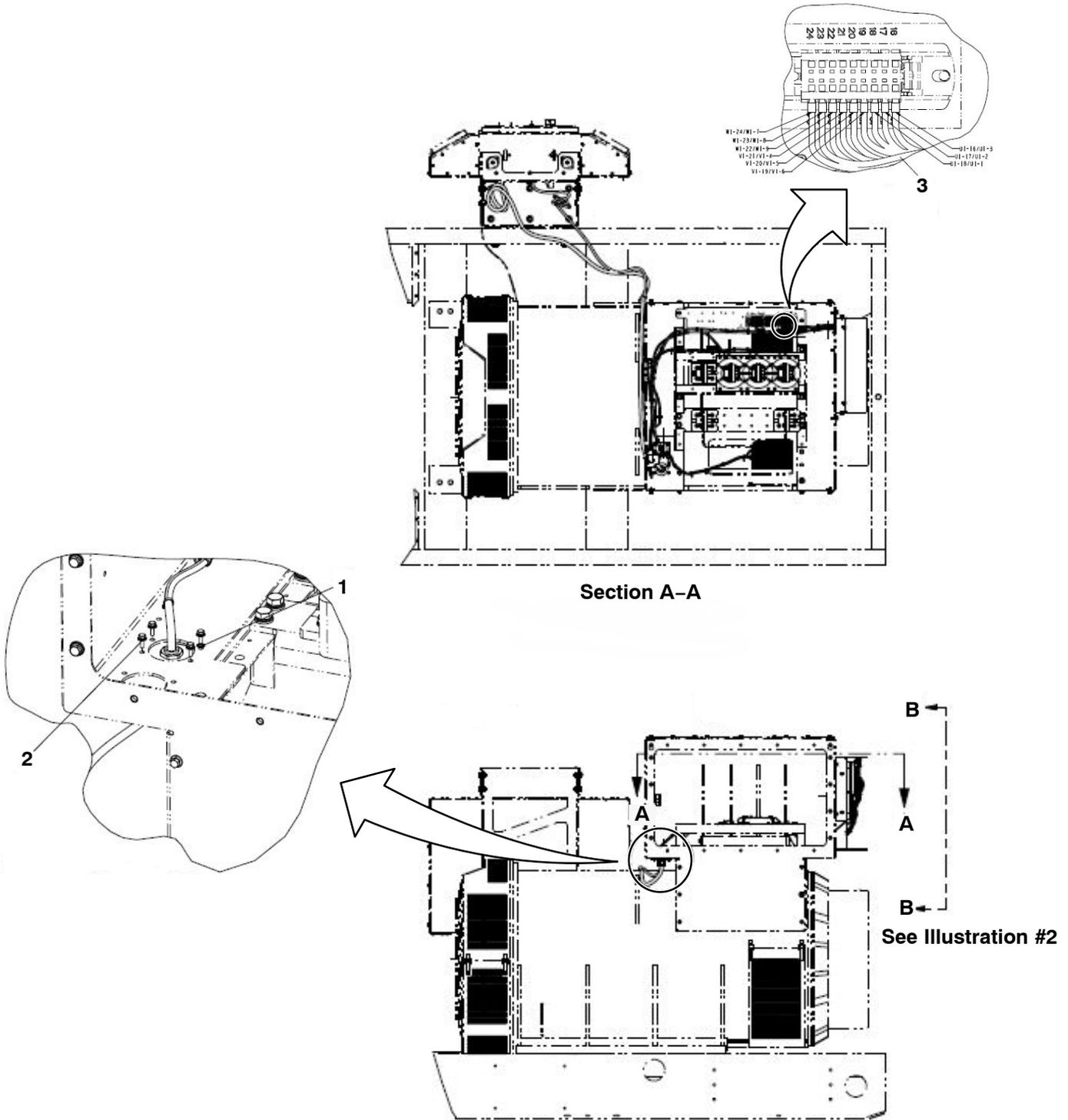
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, AC (Includes Parts Listed Below)	A051H143		1	Set Mounted Integrated PCC II Controls With P7 LV Alternators (Begin Spec E)
	A043F386	1	Frame 7, 6 and 5 LV Alternators (Spec A-D)				
	A051H143	1	Frame 7, 6 and 5 LV Alternators (Begin Spec E)	A043F390		1	Set Mounted Integrated PCC3201 Controls With P7 & MV7 Alternators (Spec A-D)
	A034X339	1	Frame 8 Alternators (Spec A-D)				
	A050W834	1	Frame 8 Alternators (Begin Spec E)				
	A043F388	1	Set Mounted Integrated PCC II Controls With P7 LV Alternators (Spec A-D)				

# Wiring Harness Engine



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4707	1	Harness, Engine (Spec A-D)				
2	A050T950	1	Harness, Engine (Begin Spec E)				

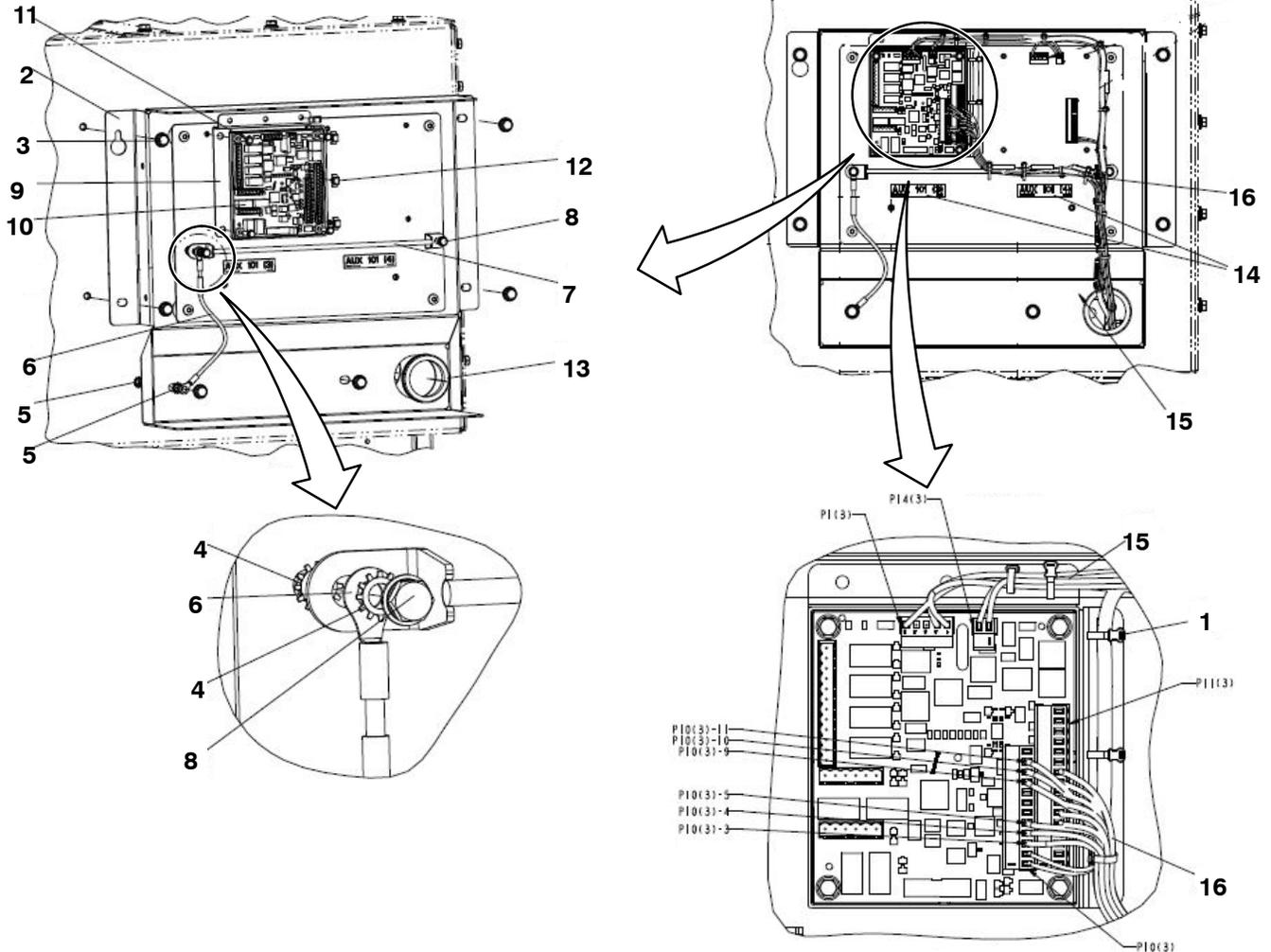
# Wiring Harness Winding RTD and Auxiliary (Begin Spec E) (Illustration #1)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0853-2005	1	Washer, Lock	3	A054H981	1	Harness, Wiring
2	0821-6001-02	4	Screw, Hex Head				

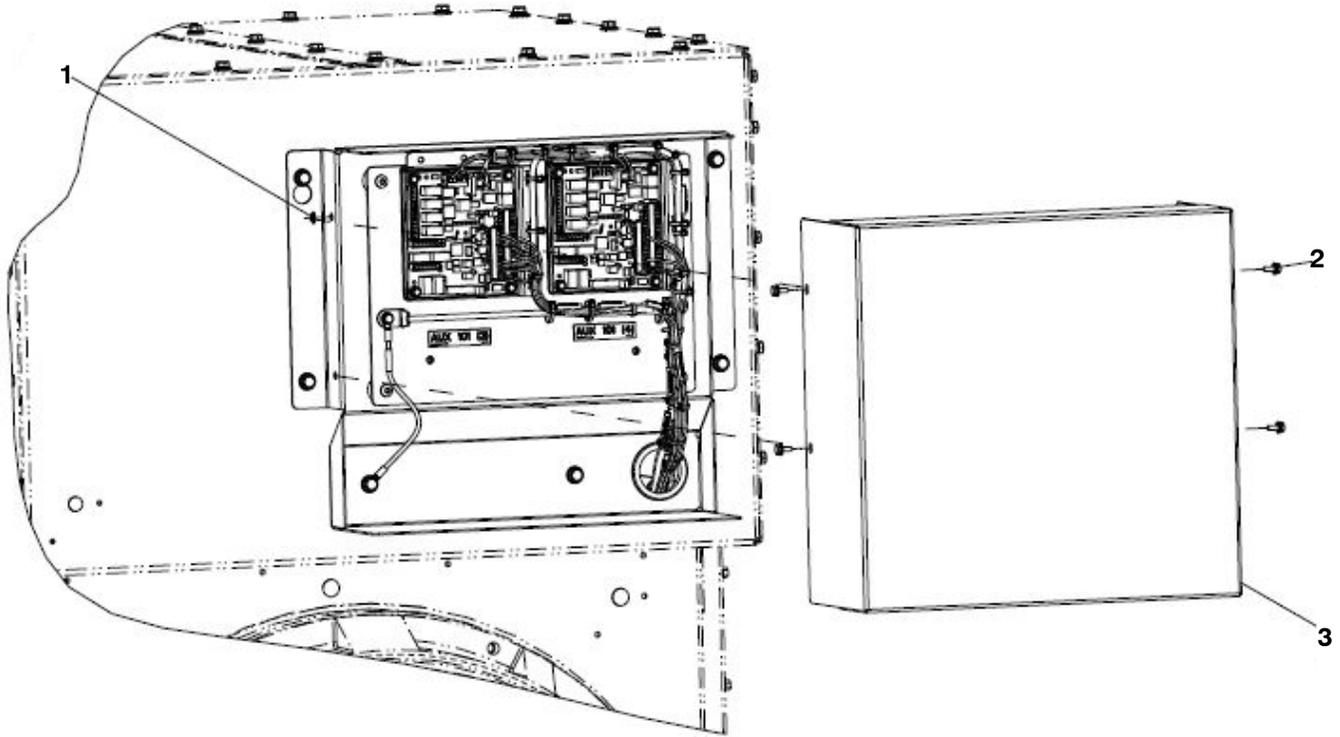
## Wiring Harness Winding RTD and Auxiliary (Begin Spec E) (Illustration #2)

View B-B From  
Illustration #1



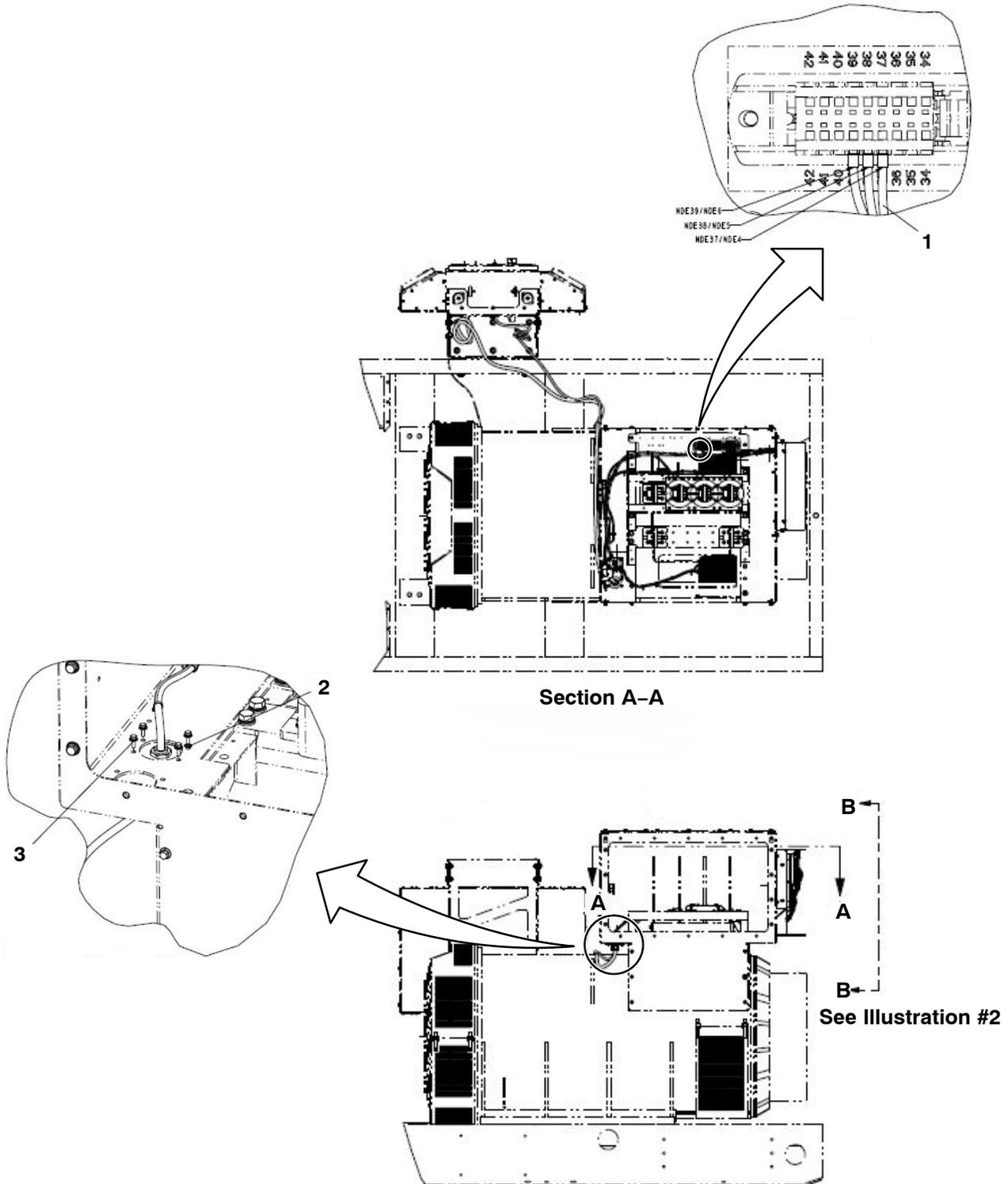
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-1794	13	Tie, Cable	9	A052J051	1	Bracket, Harness
2	A051X724	1	Box, Auxiliary	10	A029P569	1	Card, Control
3	0821-6003-02	6	Screw, Hex Head	11	0815-0793-07	4	Screw, Hex Flange Head
4	0853-2006	3	Washer, Lock	12	0332-4106	4	Base, Cable Tie
5	0853-2008	2	Washer, Lock	13	0508-1057	1	Grommet
6	A054R806	1	Strap, Ground	14	A054F831	1	Label, Shipping
7	A050L297	1	Support, Cable	15	A054H790	1	Harness, Wiring
8	0821-6002-02	6	Screw, Hex Head	16	A054H981	1	Harness, Wiring

**Wiring Harness  
Winding RTD and Auxilary  
(Begin Spec E) (Illustration #3)**



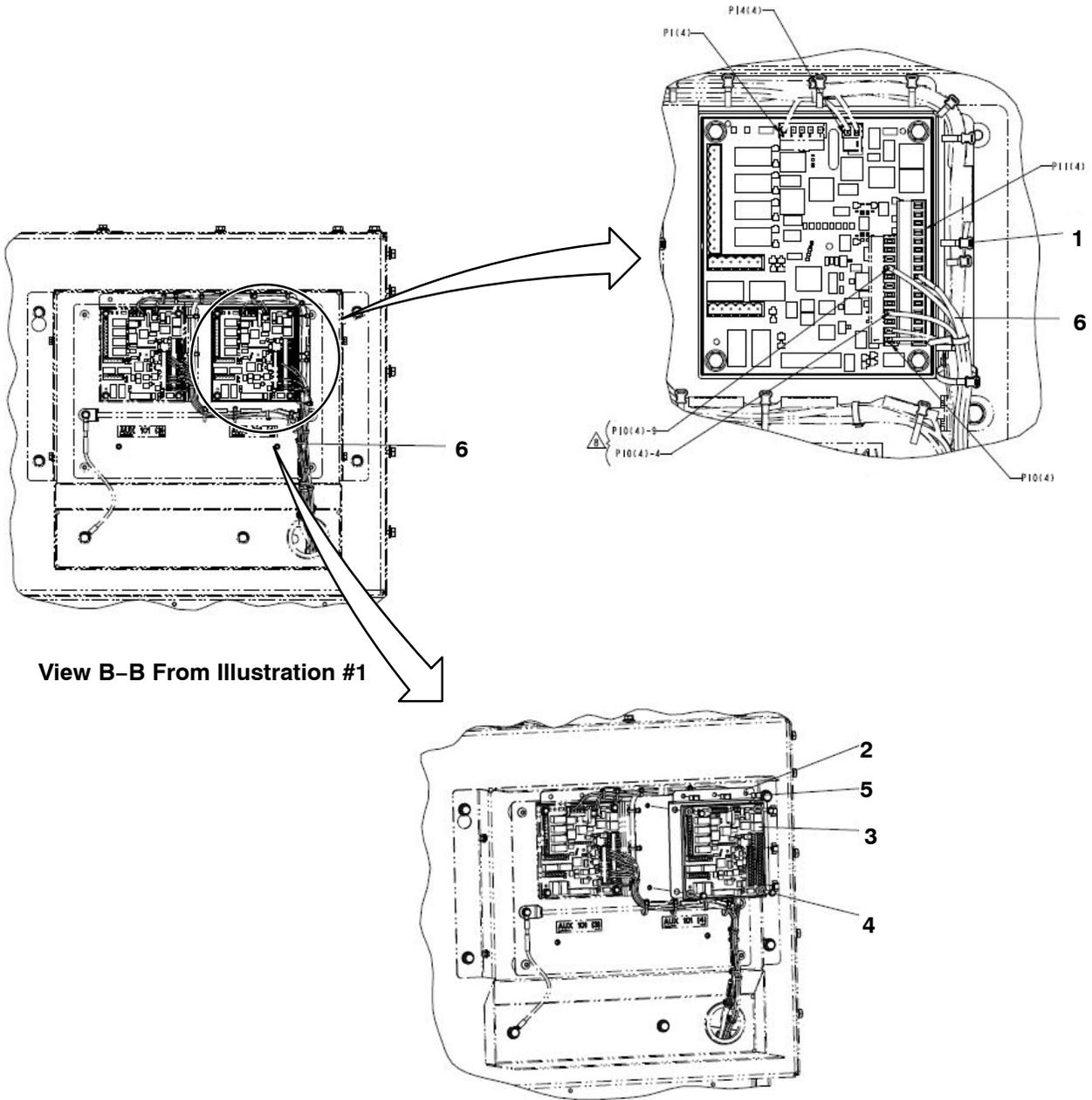
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0853-2006	3	Washer, Lock	3	A051X722	1	Panel, Cover
2	0821-6002-02	6	Screw, Hex Head				

**Wiring Harness  
Sensor Bearing RTD  
(Begin Spec E) (Illustration #1)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A054J401	1	Harness, Wiring	3	0821-6001-02	4	Screw, Hex Head
2	0853-2005	1	Washer, Lock				

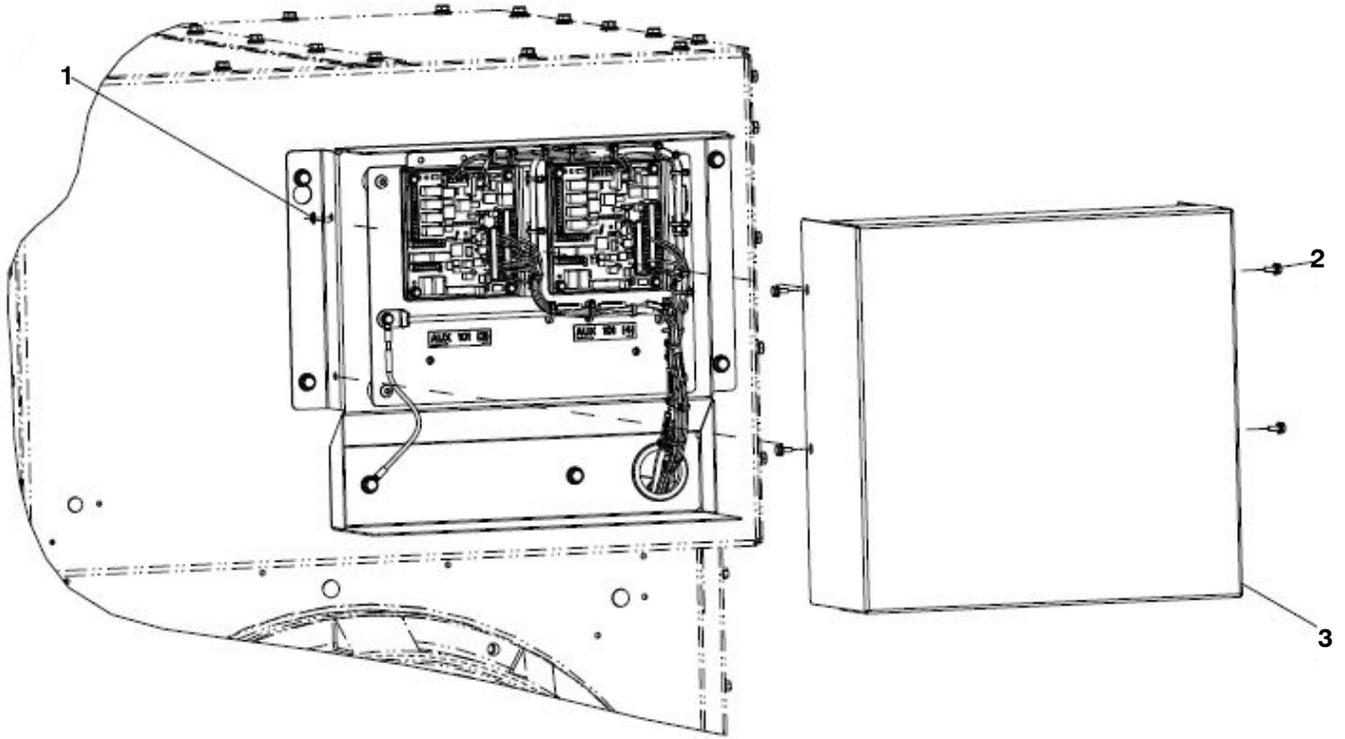
**Wiring Harness  
Sensor Bearing RTD  
(Begin Spec E) (Illustration #2)**



**View B-B From Illustration #1**

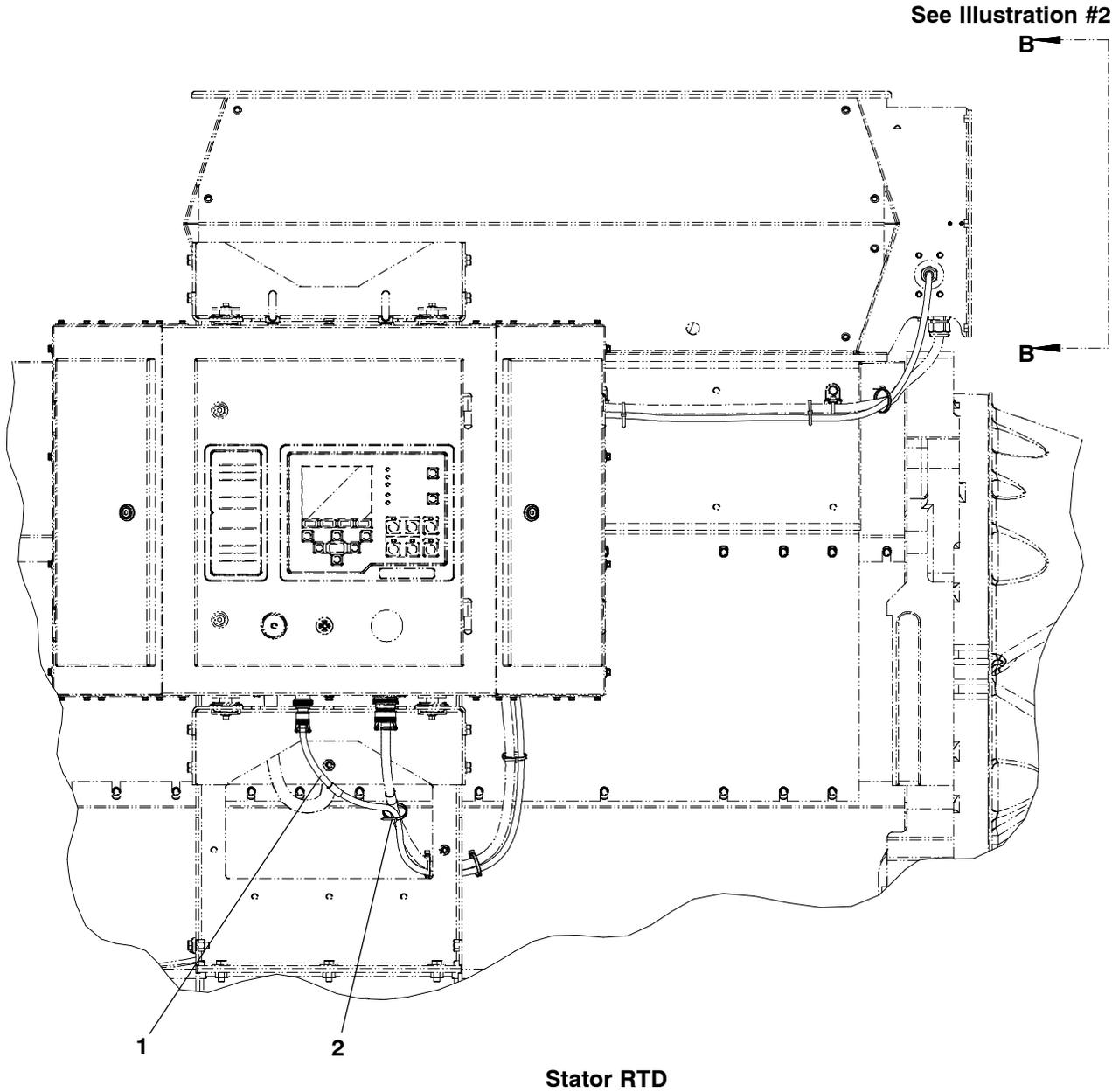
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0332-1794	11	Tie, Cable	4	0815-0793-07	4	Screw, Hex Flange Head
2	A052J051	1	Bracket, Harness	5	0332-4106	6	Base, Cable Tie
3	A029P569	1	Card, Control	6	A054J401	1	Harness, Wiring

**Wiring Harness  
Sensor Bearing RTD  
(Begin Spec E) (Illustration #3)**



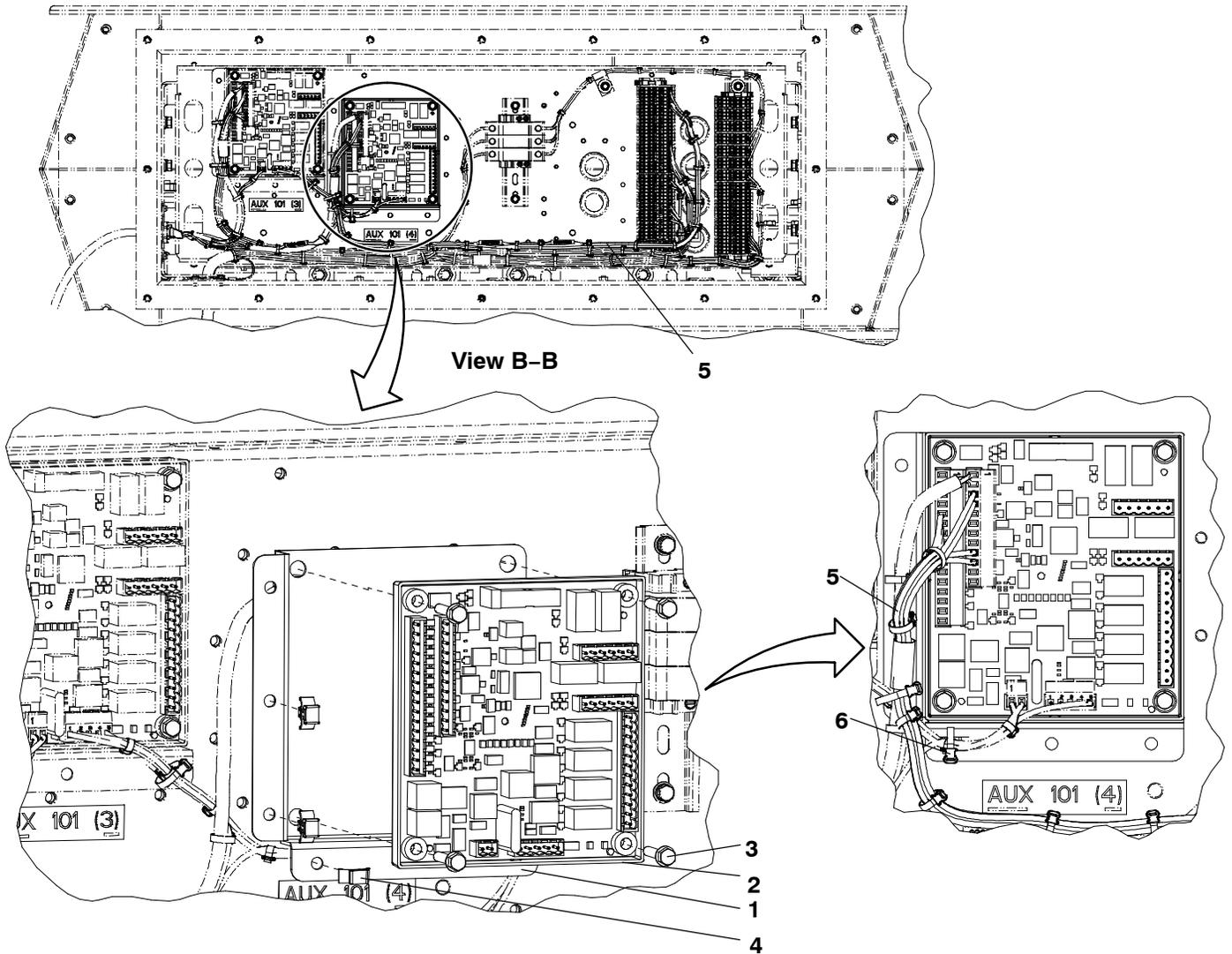
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	0853-2006	3	Washer, Lock	3	A051X722	1	Panel, Cover
2	0821-6002-02	6	Screw, Hex Head				

# Wiring Harness (P80 Aux Options) (Begin Spec E) (Illustration #1)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A050R646	1	Harness, Wiring (Stator RTD)	2			Tie, Cable
					0332-1389	5	Bearing RTD
					0332-1389	15	Stator RTD

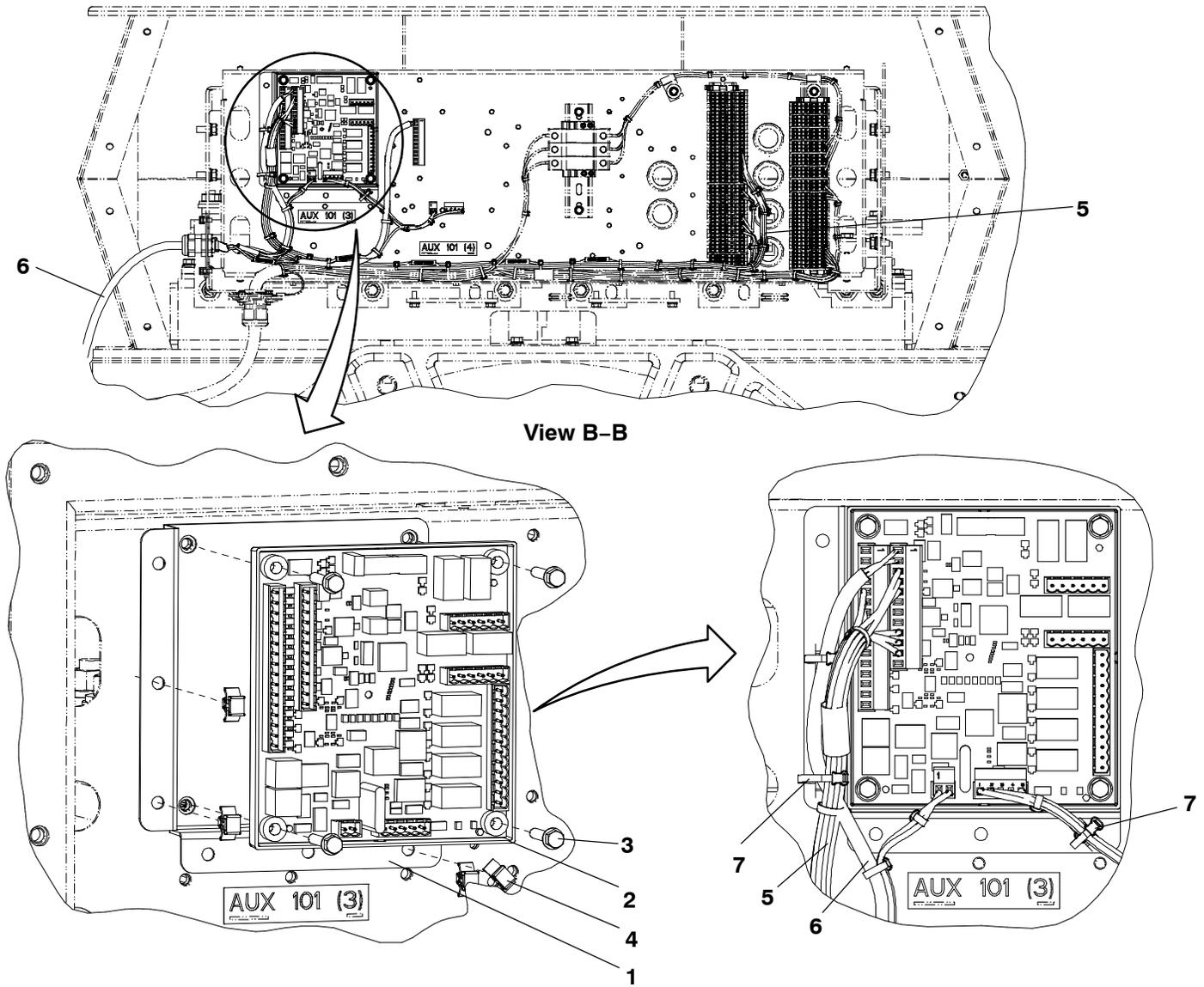
## Wiring Harness (P80 Aux Options) (Begin Spec E) (Illustration #2)



**Bearing RTD**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A052J051	1	Bracket, Harness	4	0332-4106	3	Mount, Cable Tie
2	A029P569	1	Card, Control	5	A051G461	1	Harness, Wiring (Bearing RTD)
3	0815-0793-07	4	Screw, Hex Flange Head	6	0332-1794	1	Tie, Cable

### Wiring Harness (P80 Aux Options) (Begin Spec E) (Illustration #3)

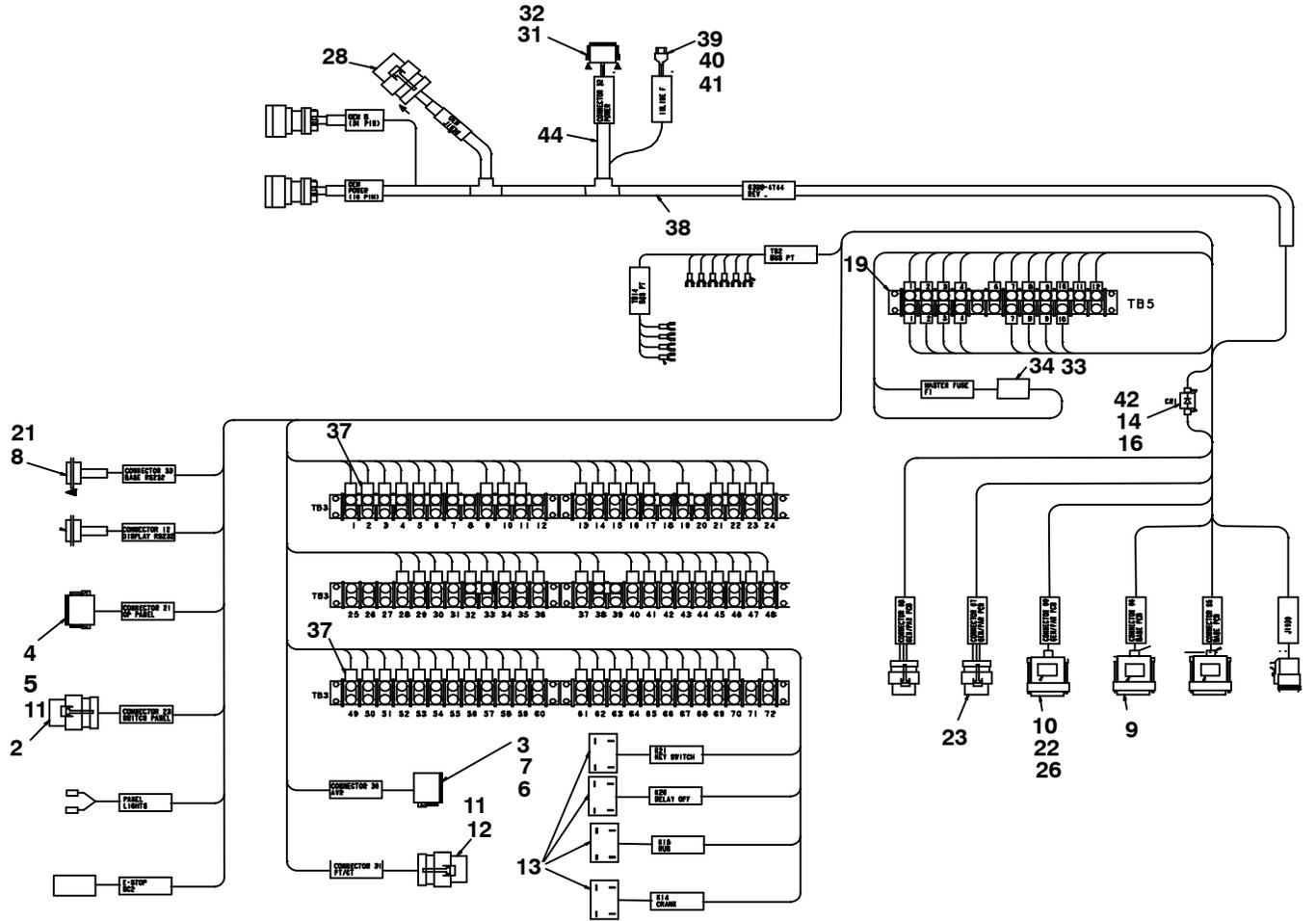


View B-B

Stator RTD

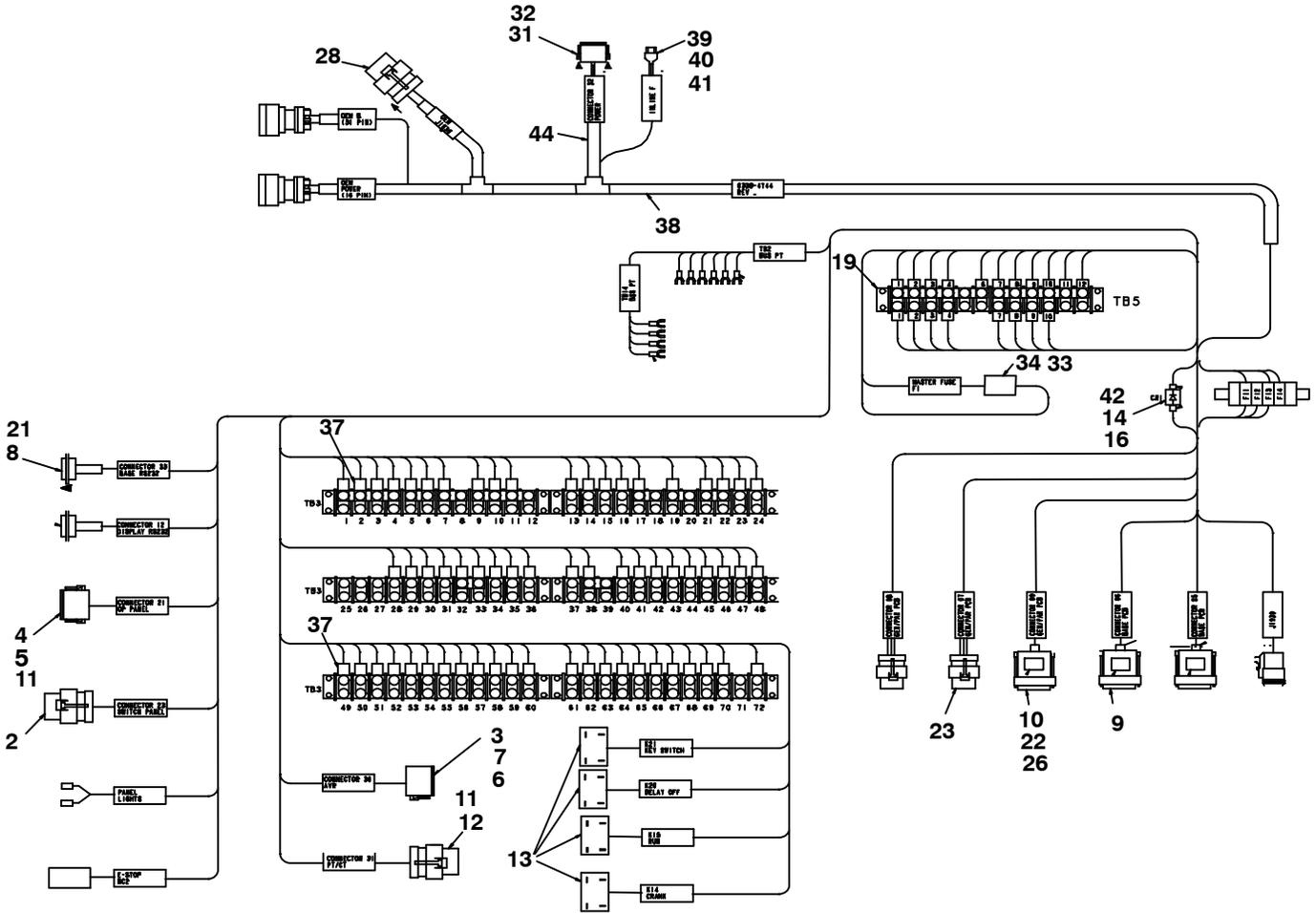
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A052J051	1	Bracket, Harness	5	A051G439	1	Harness, Wiring (Stator RTD)
2	A029P569	1	Card, Control	6	A050R646	1	Harness, Wiring (Stator RTD)
3	0815-0793-07	4	Screw, Hex Flange Head	7	0332-1794	1	Tie, Cable
4	0332-4106	3	Mount, Cable Tie				

# Wiring Harness Control



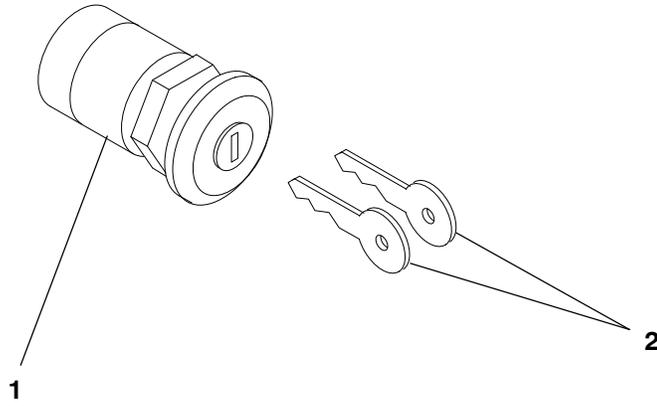
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4744	1	Harness, Control (Includes Parts Listed Below)	23	323-1605-04	1	Plug, Grommet
2	323-1605-01	2	Connector, Plug	24	332-0418-01	5	Splice, Parallel (not shown)
3	323-1605-03	1	Connector, Plug	25	898-0860	A/R	Tube (not shown)
4	323-1582	1	Plug, Pin	26	098-7594-01	3	Label
5	323-1583	1	Wedge, Plug	27	323-2275	6	Pin, Contact (not shown)
6	323-1623	1	Connector, Plug	28	323-1494	2	Connector, Receptacle
7	323-1624	1	Wedge, Plug	29	334-0761	A/R	Wire (not shown)
8	323-1841	2	Connector, Contact	30	308-1180	1	Switch, Pushbutton (not shown)
9	323-1836	1	Connector, Contact	31	323-1580-02	1	Socket, Receptacle
10	323-1837	2	Connector, Contact	32	323-1581	1	Wedge, Receptacle
11	323-1492	21	Socket, Terminal	33	321-0416-01	1	Fuse
12	323-1614-01	71	Socket, Terminal	34	321-0415	1	Fuse, Holder
13	307-2968-04	4	Relay, Power	35	332-3491-01	2	Pin, Terminal (not shown)
14	357-0030	1	Rectifier, Silicon	36	323-2277	8	Socket, Contact (not shown)
15	323-1835-02	22	Contact, Socket	37	332-2974	25	Spade, Terminal
16	332-1992	18	Terminal, Receptacle	38	898-1195-04	A/R	Sleeve
17	332-1993	1	Terminal, Receptacle (not shown)	39	323-1503	2	Plug, Wedge
18	332-3058	8	Splice, Butt (not shown)	40	323-1493	2	Plug, Connector
19	332-0607	7	Terminal, Block	41	323-1888	1	Connector, Boot
20	332-1043	23	Terminal, Jumper (not shown)	42	898-0861	A/R	Sleeve, Insulated
21	323-1847-01	13	Pin, Contact	43	323-2280	4	Socket, Contact (not shown)
22	323-1843	2	Grommet	44	898-1195-03	A/R	Sleeve, Convuluted
				45	332-1506	1	Splice, Window (not shown)

# Wiring Harness Control



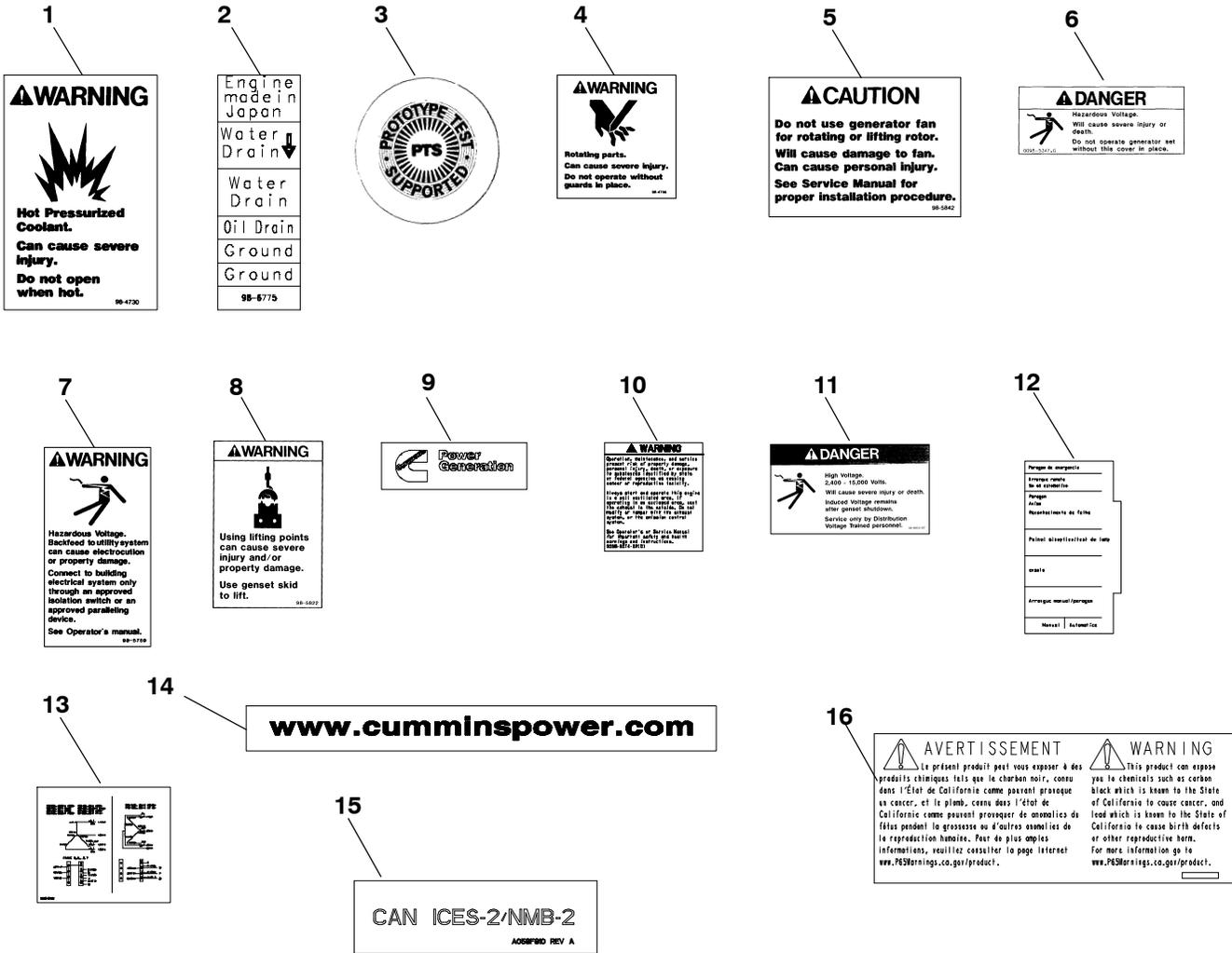
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A029R718	1	Harness, Control (Includes Parts Listed Below)	23	323-1605-04	1	Plug, Grommet
2	323-1605-01	2	Connector, Plug	24	332-0418-01	5	Splice, Parallel (not shown)
3	323-1605-03	1	Connector, Plug	25	898-0860	A/R	Tube (not shown)
4	323-1582	1	Plug, Pin	26	098-7594-01	3	Label
5	323-1583	1	Wedge, Plug	27	323-2275	6	Pin, Contact (not shown)
6	323-1623	1	Connector, Plug	28	323-1494	2	Connector, Receptacle
7	323-1624	1	Wedge, Plug	29	334-0761	A/R	Wire (not shown)
8	323-1841	2	Connector, Contact	30	308-1180	1	Switch, Pushbutton (not shown)
9	323-1836	1	Connector, Contact	31	323-1580-02	1	Socket, Receptacle
10	323-1837	2	Connector, Contact	32	323-1581	1	Wedge, Receptacle
11	323-1492	21	Socket, Terminal	33	321-0416-01	1	Fuse
12	323-1614-01	71	Socket, Terminal	34	321-0415	1	Fuse, Holder
13	307-2968-04	4	Relay, Power	35	332-3491-01	2	Pin, Terminal (not shown)
14	357-0030	1	Rectifier, Silicon	36	323-2277	8	Socket, Contact (not shown)
15	323-1835-02	22	Contact, Socket	37	332-2974	25	Spade, Terminal
16	332-1992	18	Terminal, Receptacle	38	898-1195-04	A/R	Sleeve
17	332-1993	1	Terminal, Receptacle (not shown)	39	323-1503	2	Plug, Wedge
18	332-3058	8	Splice, Butt (not shown)	40	323-1493	2	Plug, Connector
19	332-0607	7	Terminal, Block	41	323-1888	1	Connector, Boot
20	332-1043	23	Terminal, Jumper (not shown)	42	898-0861	A/R	Sleeve, Insulated
21	323-1847-01	13	Pin, Contact	43	323-2280	4	Socket, Contact (not shown)
22	323-1843	2	Grommet	44	898-1195-03	A/R	Sleeve, Convolted
				45	332-1506	1	Splice, Window (not shown)

## Key Operator Switch (Spec A-D)



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

## Labels Miscellaneous

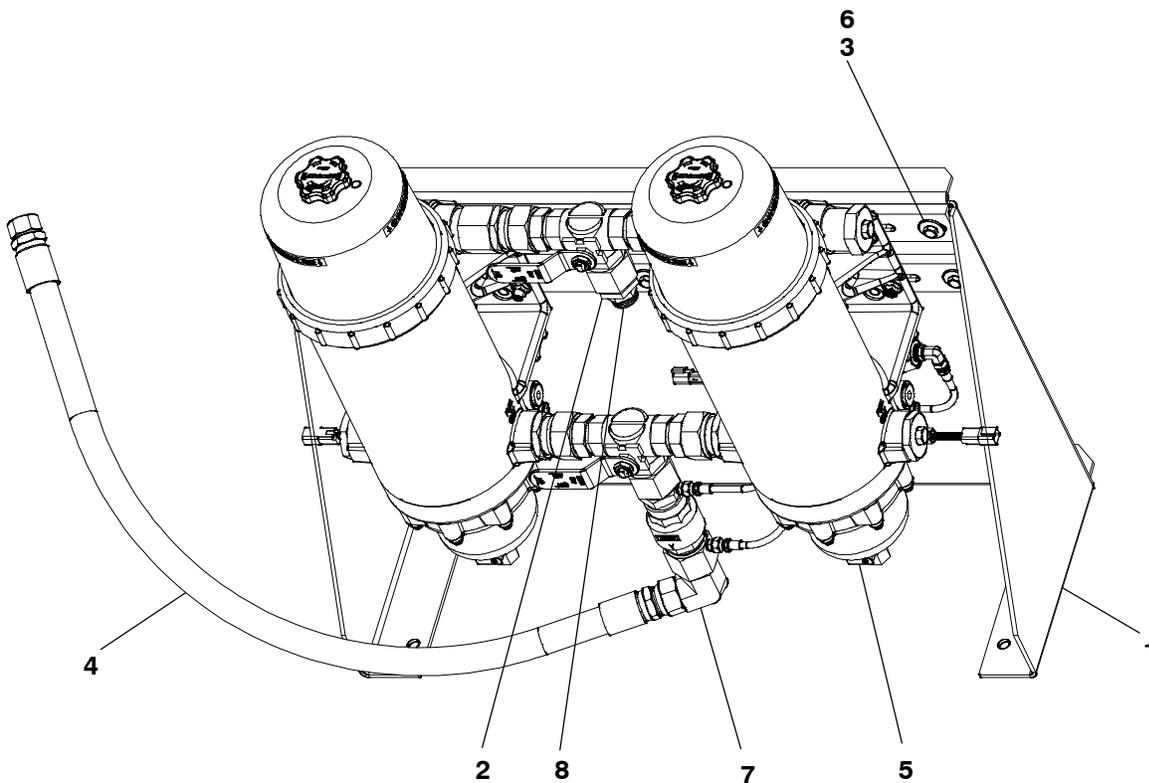


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4730	A/R	Label, Warning	12			Label, Insert
2	098-6775	1	Label, Water Drain and Oil Drain	098-7883-01	1		Portuguese
3	098-4500	2	Label, Prototype Tested	098-7883-02	1		French
4	098-4798	5	Label, Warning	098-7883-04	1		Dutch
5	098-5842	2	Label, Caution	098-7883-05	1		German
6	098-5347	A/R	Label, Danger	098-7883-07	1		Swedish
7	098-5759	A/R	Label, Warning	098-7883-08	1		Italian
8	098-5822	A/R	Label, Warning	098-7883-09	1		Czech
9			Label, Logo	098-7883-10	1		Finnish
	098-7902-03 A/R		100mm x 310mm	13	098-8160	1	Label, Information
	098-7902-04 A/R		152mm x 471mm	14	098-8220	2	Label, Information
10	098-6074-02	1	Label, Warning	15	A058F810	A/R	Label, Information
11	098-6650-01 A/R		Label, Danger	16	A061M241	A/R	Label, Warning

## Kits

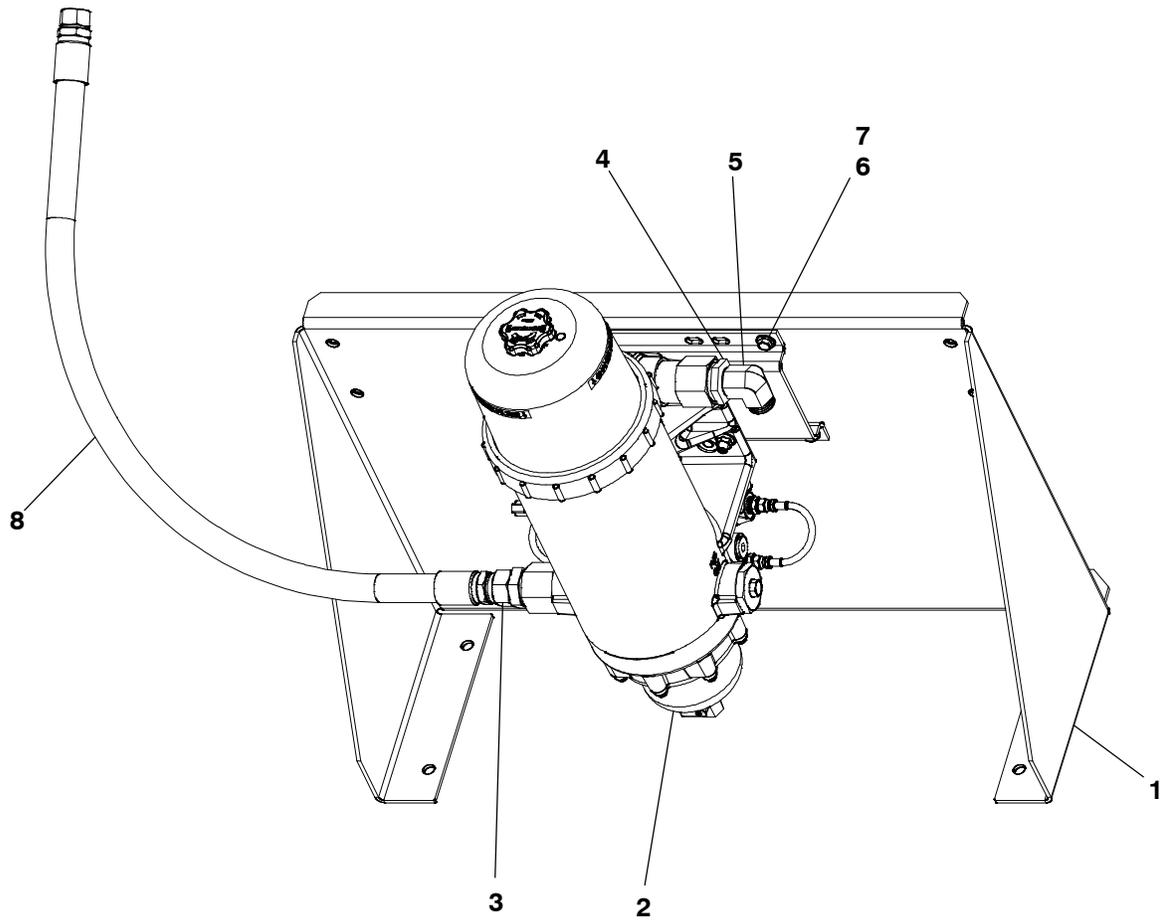
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-0814-01	1	Kit, Control				
2	541-0814-02	1	Kit, Control				
3	327-1309	1	PCB Assy (Annunciator)				
4	541-0809	1	Kit, Control				

## Fuel Filter Kit – Duplex



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A056S669	1	Bracket, Fuel Filter	5	A055Y798	1	Filter, Fuel
2	0505-0023	1	Bushing, Reducer	6	0526-0399-63	6	Washer, Flat
3	0800-3017-39	6	Screw, Hex Head	7	0502-1588	1	Fitting, Tube Elbow
4	0501-0970-01	1	Line, Fuel	8	A056M852	1	Fitting, Pipe Adapter

## Fuel Filter Kit – Single



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A056S669	1	Bracket, Fuel Filter	5	0502-1592	1	Fitting, Tube Elbow
2	A055Y796	1	Filter, Fuel	6	0526-0399-62	4	Washer, Flat
3	A056G613	1	Fitting, Pipe Adapter	7	0800-3017-39	4	Screw, Hex Head
4	0505-0023	1	Bushing, Reducer	8	0501-0970-01	1	Line, Fuel

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# Numerical Index

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