

Parts Manual

Transfer Switch

1200–4000 Amperes

OTPCE (Spec A–C)

OTPCF (Spec A–B)

OTPCG (Spec A–B)

OTPOCH (Spec A–B)

OTPCJ (Spec A)

MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This catalog applies to the OTPC 1200/1600/2000/3000/4000 Amp Transfer Switch. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the model and spec number from the switch box nameplate, select the parts that apply to your Transfer Switch. Unless otherwise noted in the parts description, parts are interchangeable between models.

Feature Options

Code	Description	Code	Description
A028	3-Pole Switch	L202	Auxiliary Relay – Emergency Position – 12 VDC
A029	4-Pole Switch	L203	Auxiliary Relay – Normal Position – 12 VDC
A035	Utility to Generator Set Applications	L204	Auxiliary Relay – Generator Start – 12 VDC
A036	Utility to Utility Applications	M003	Terminal Block – 30 Points
A037	Generator Set to Generator Set Applications	M007	Load Shed – From Emergency
A041	One Phase – 2 or 3 wire	M017	Security – Front Panel
A042	Three Phase – 3 or 4 wire	M018	Display – Digital
A044	Frequency – 60 Hz	M020	Communications – Lonworks
A045	Frequency – 50 Hz	M022	Monitoring – Load
A046	Listing – UL	M023	Module – Relay Signal
A047	Certification – CSA	N002	Terminal Block – Battery Charger Alarm
B001	Cabinet – Type 1	N008	Terminal Lugs – Cable
B002	Cabinet – Type 3R	N009	Bus Stubs Connection
B003	Cabinet – Type 4	N013	Harness – Extension
B004	Construction – Open	R021	Voltage – 208
B010	Cabinet – Type 12	R022	Voltage – 220
C023	Control – Level 1	R023	Voltage – 240
C024	Control – Level 2	R024	Voltage – 380
D009	Meters – Bar Graph Display	R025	Voltage – 416
K001	Battery Charger – 2 Amp, 12/24V	R026	Voltage – 480
K002	Battery Charger – 10 Amp, 12V	R027	Voltage – 600
K003	Battery Charger – 10 Amp, 24V	R035	Voltage – 440
L101	Auxiliary Relay – 24 VDC Coil	R038	Voltage – 190
L102	Auxiliary Relay – Emergency Position – 24 VDC	S057	Current Rating – 1200 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC	S058	Current Rating – 1600 Amps
L104	Auxiliary Relay – Generator Start – 24 VDC	S059	Current Rating – 2000 Amps
L201	Auxiliary Relay – 12 VDC Coil	S060	Current Rating – 3000 Amps
		Zenith2	Current Rating – 4000 Amps

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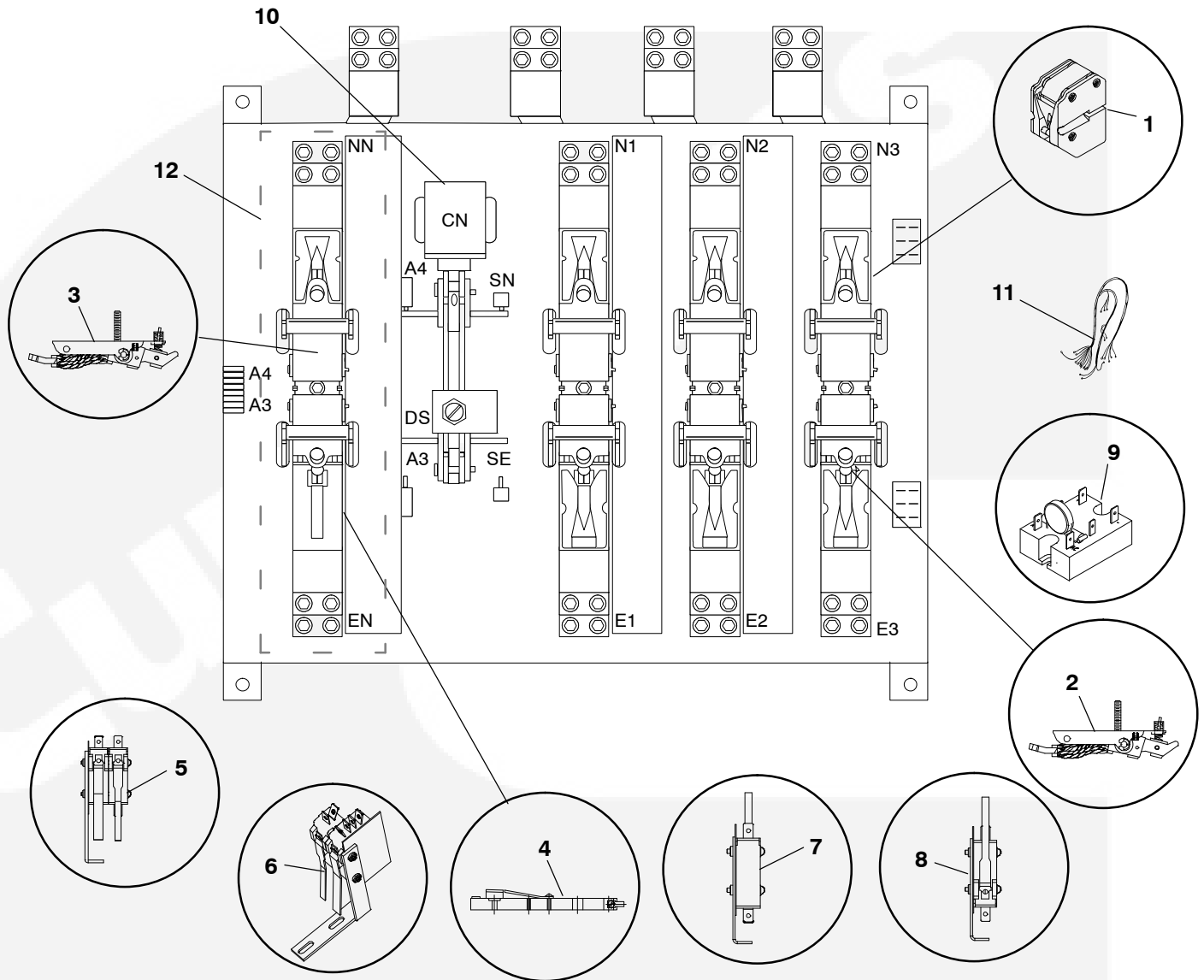
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Abbreviations

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

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

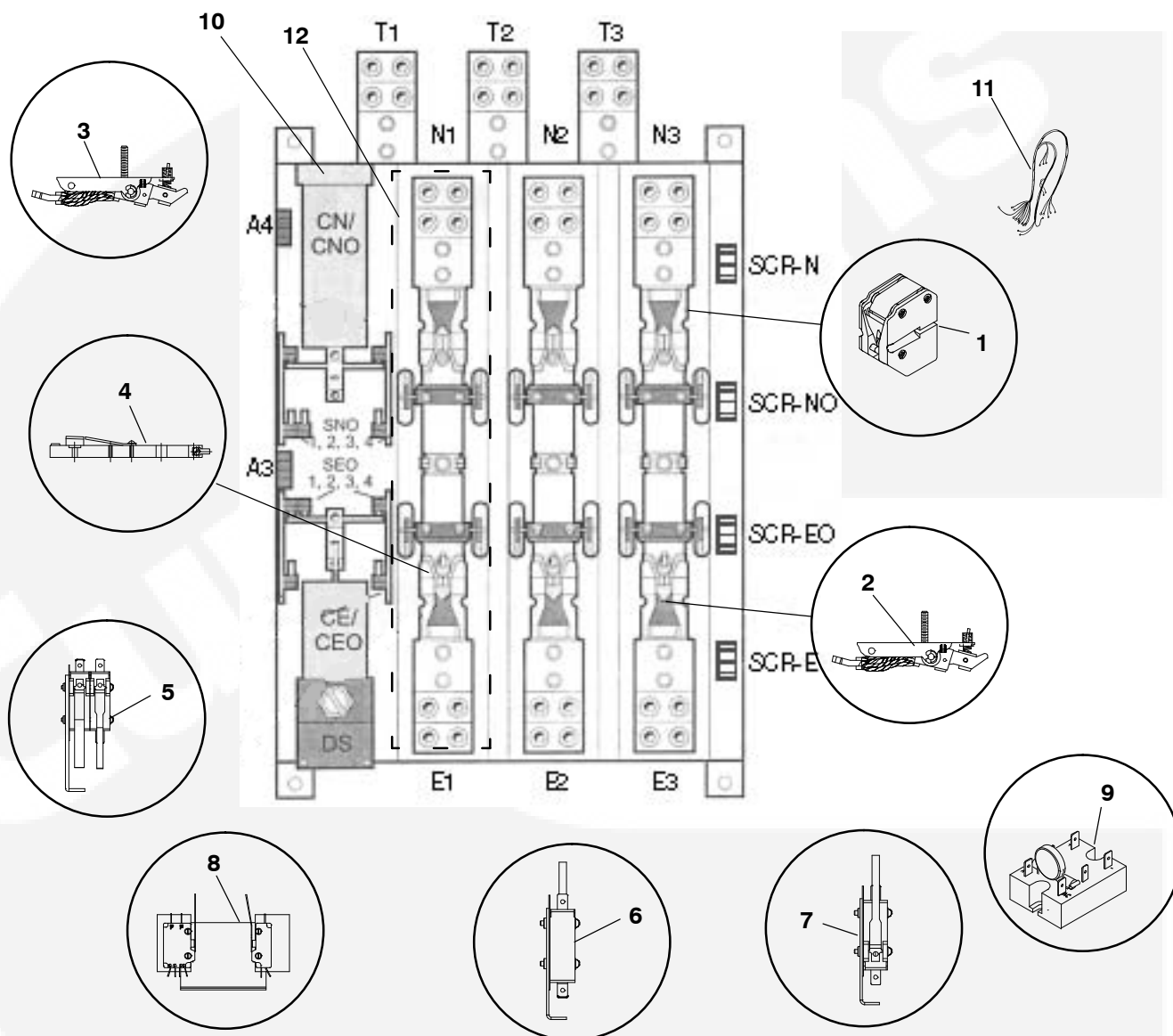
Transfer Switch 1200 Amps – Open Transition



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040A026	A/R	Chute, Arc
2	A040A198	A/R	Contact, Main – Moveable
3	A040A200	A/R	Contact, Main – Neutral
4	A040D961	A/R	Contact, Stationary
5	A040H045	A/R	Switch, Limit (SN)
6	A040H050	A/R	Switch, Limit (SE)
7	A040H529	A/R	Switch, Limit (A3)
8	A040H539	A/R	Switch, Limit (A4)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	A040C690	A/R	Relay, Control (12V Coil)
10	306-3623-04 A/R		Solenoid
	306-3623-16 A/R		208/240 Volt
	306-3623-05 A/R		380 Volt
	306-3623-21 A/R		480 Volt
11	A035P956	1	575 Volt
12	A040C794	1	Harness, Wiring
			Cover, Arc Chamber

Transfer Switch 1200 Amps – Closed/Delayed Transition

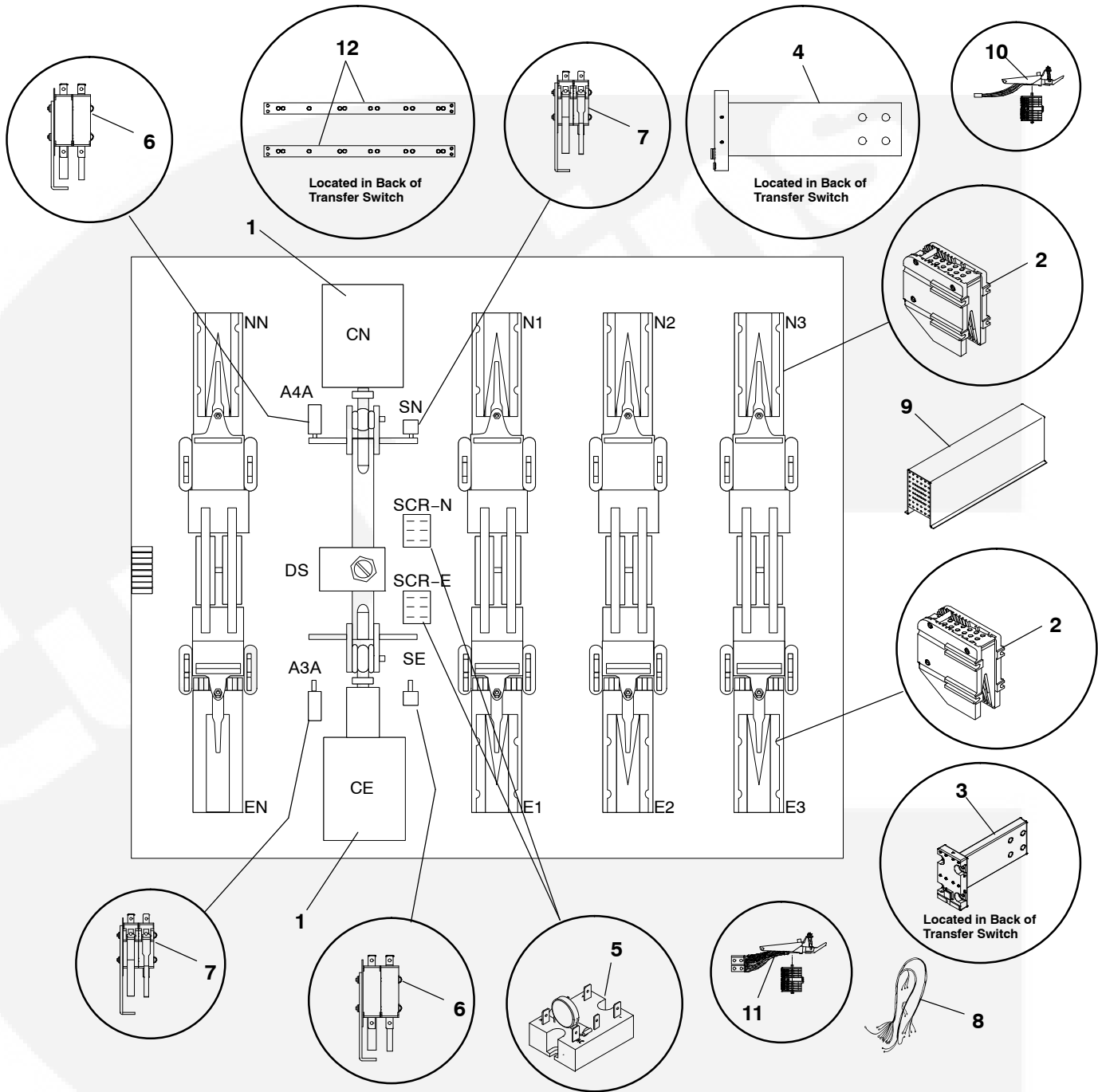


3 Pole Shown

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040A026	A/R	Chute, Arc	9	A040C690	A/R	Relay, Control (12V Coil) Solenoid
2	A040A198	A/R	Contact, Main - Moveable	10	306-3623-04 A/R		208/240 Volt
3	A040A200	A/R	Contact, Main - Neutral - 4 Pole		306-3623-16 A/R		380 Volt
4	A040D961	A/R	Contact, Stationary		306-3623-05 A/R		480 Volt
5	A040H045	A/R	Switch, Limit		306-3623-21 A/R		575/600 Volt
6	A040H529	A/R	Switch, Limit	11	A035P960	1	Harness, Wiring
7	A040H539	A/R	Switch, Limit	12	A040C794	1	Cover, Arc Chamber
8	A040H604	A/R	Switch, Limit				

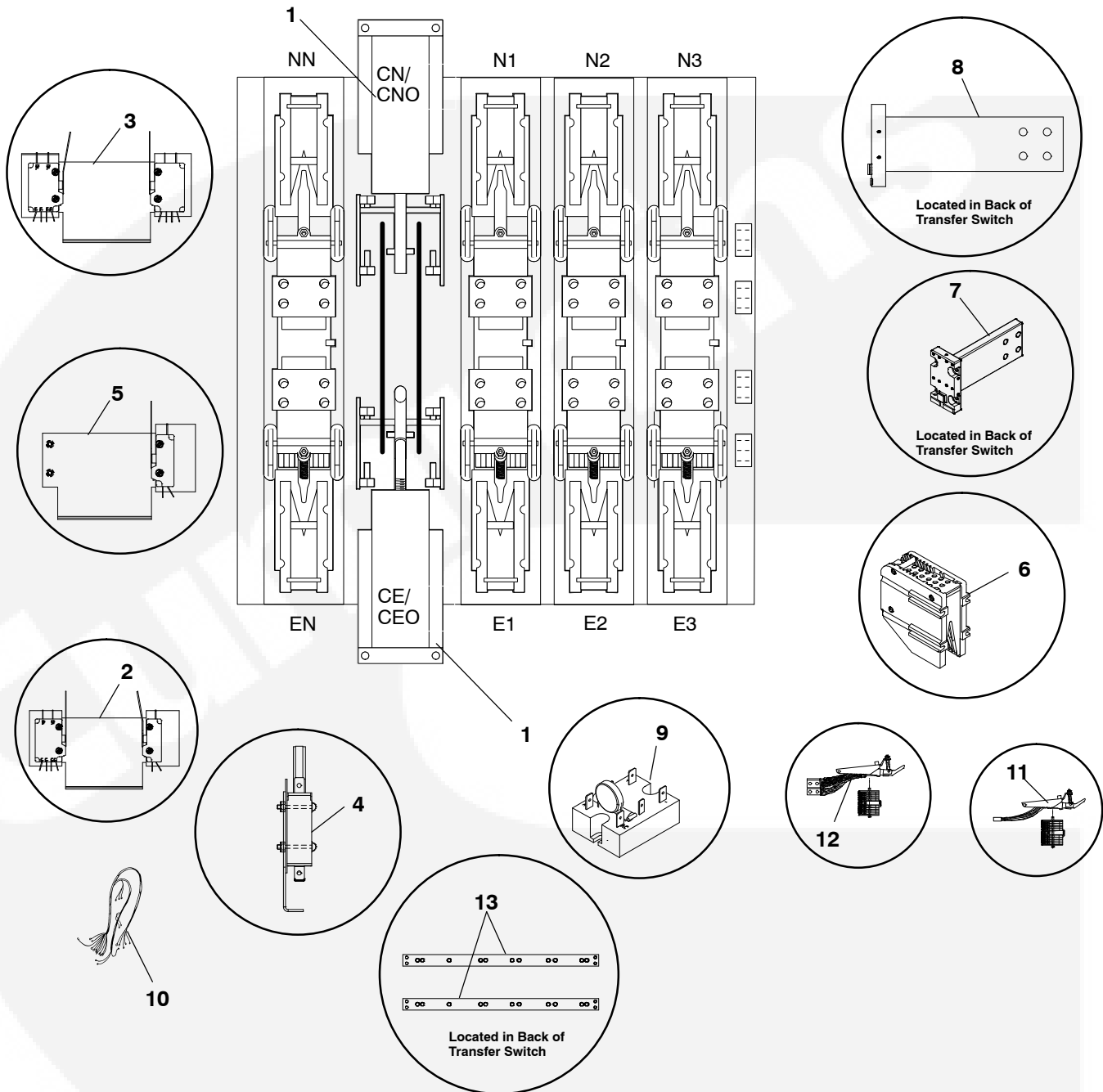
Transfer Switch

1600 to 3000 Amps – Open Transition



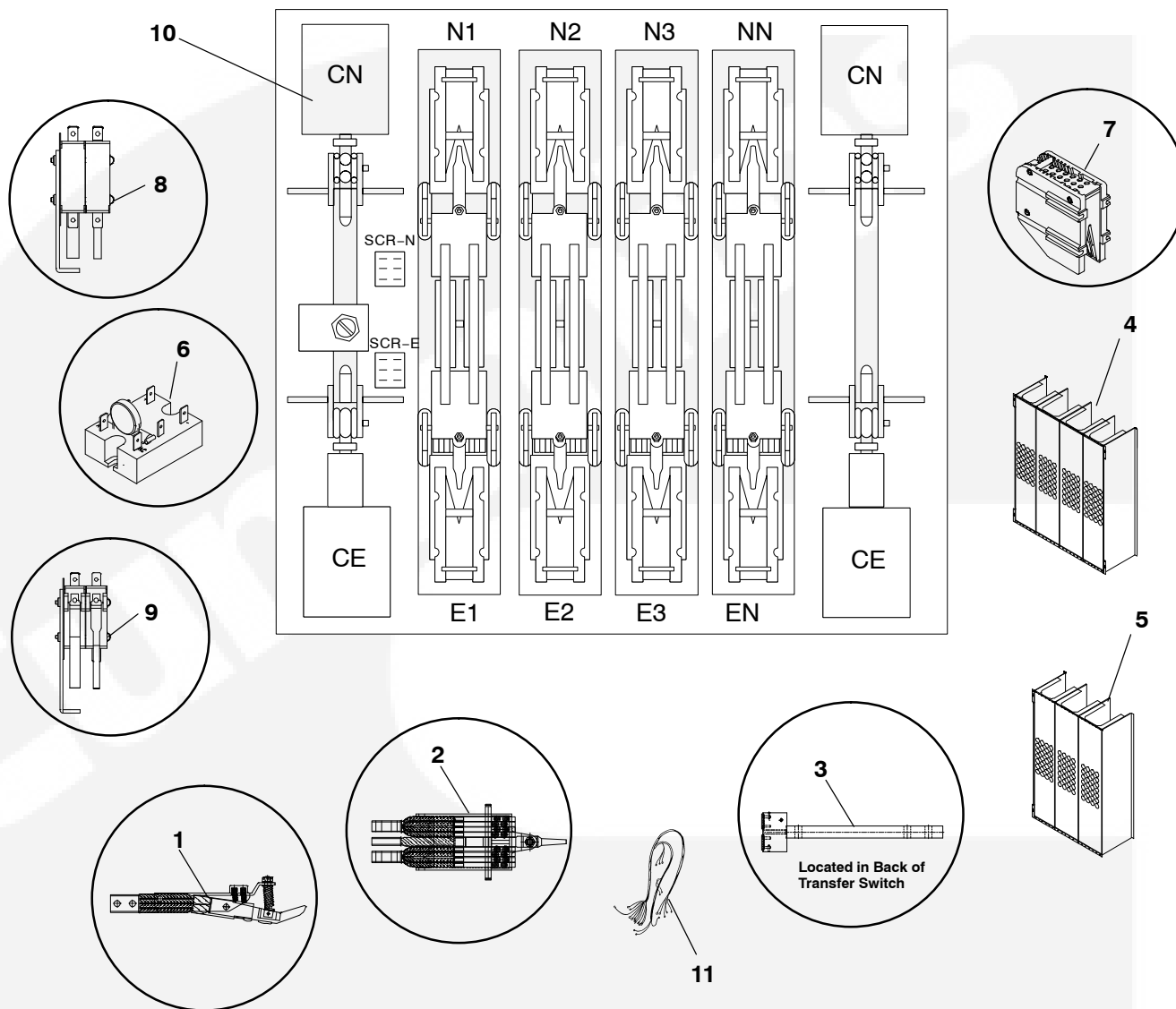
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Solenoid	5	A040C690	A/R	Relay, Control (12V Coil)
	306-3623-11	A/R	208V	6	A030N943	A/R	Switch, Limit
	306-3623-10	A/R	240V	7	A030N945	A/R	Switch, Limit
	306-3623-17	A/R	380/416V	8	A035P958	1	Harness, Wiring
	306-3623-12	A/R	480V	9	A040C780	1	Cover, Arc Chamber (4 Pole)
	306-3623-23	A/R	575/600V	10	A030N931	1	Contact, Moveable – Assy. (1600A)
2	A040A029	A/R	Chute, Arc				
3	A040D957	A/R	Contact, Stationary (1600-2000A)	11	A030N935	1	Contact, Moveable – Assy. (3000A)
4	A040E012	A/R	Contact, Stationary (3000A)	12	319-0706	2	Support, CT Mounting

Transfer Switch 1600 to 3000 Amps – Closed/Delayed Transition



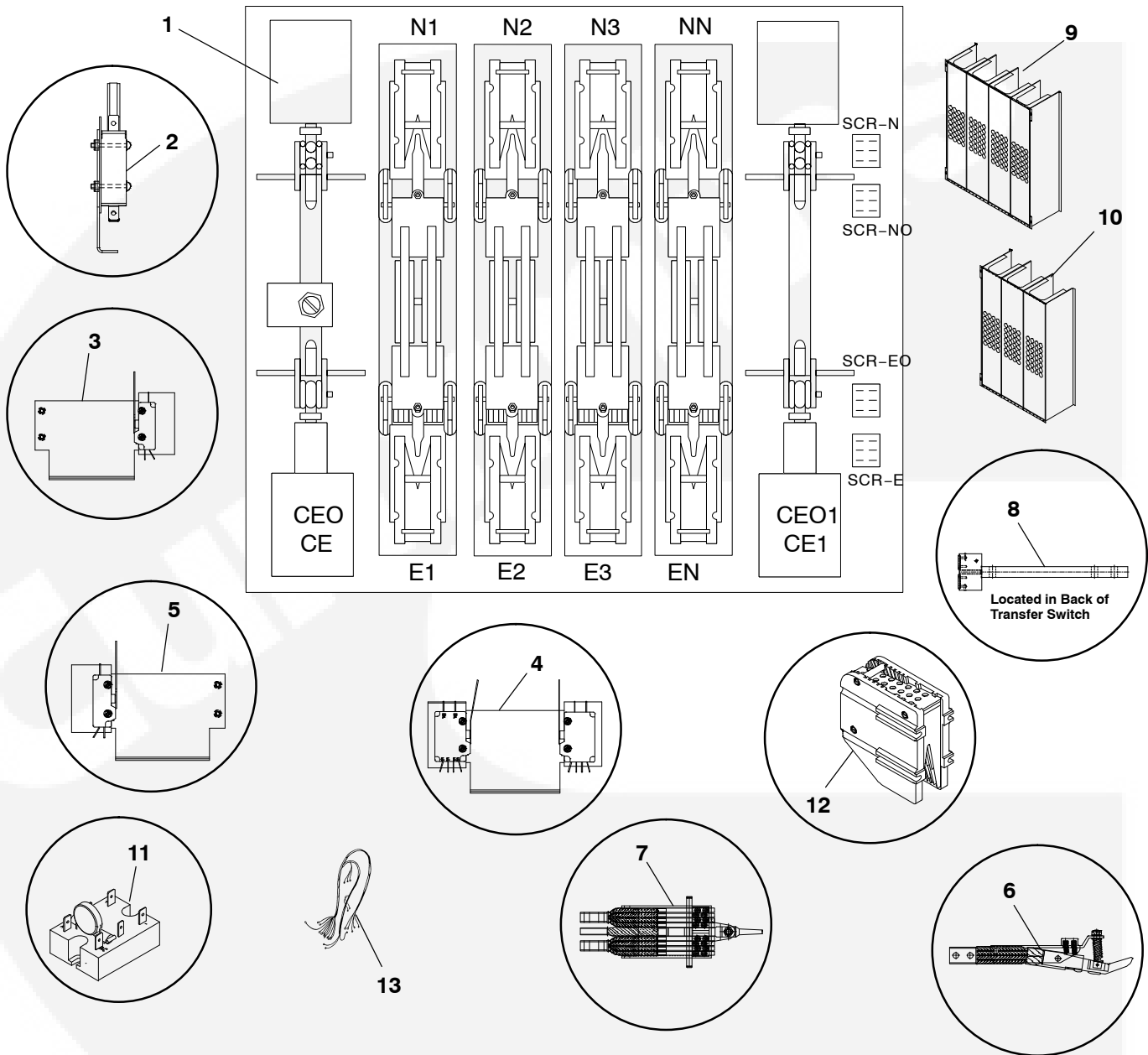
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3623-14 A/R		Solenoid 208/240V	7	A040D957	A/R	Contact, Stationary (1600-2000A)
	306-3623-18 A/R		380/416V	8	A040E012	A/R	Contact, Stationary (3000A)
	306-3623-15 A/R		480V	9	A040C690	A/R	Relay, Control (12V Coil)
	306-3623-20 A/R		575/600V	10	A035P962	1	Harness, Wiring
2	A030N964	A/R	Switch, Limit	11	A030N931	1	Contact, Moveable – Assy. (1600A)
3	A030N968	A/R	Switch, Limit	12	A030N935	1	Contact, Moveable – Assy. (3000A)
4	A030N949	A/R	Switch, Limit	13	319-0706	2	Support, CT Mounting
5	A030N947	A/R	Switch, Limit				
6	A040A029	A/R	Chute, Arc				

Transfer Switch 4000 Amps – Open Transition



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A040D934	A/R	Contact, Moveable	9	A030N945	A/R	Switch, Limit
2	A040D936	A/R	Contact, Moveable	10	306-3623-25 A/R		Solenoid
3	A040E041	A/R	Contact, Stationary		306-3623-26 A/R		208V
4	A040A202	A/R	Cover, Arc Chamber – 4 Pole		306-3623-28 A/R		240V
5	A040A206	A/R	Cover, Arc Chamber – 3 Pole		A040C327	A/R	380/416V
6	A040C690	A/R	Relay, Control (12V Coil)		A040C330	A/R	480V
7	A040A029	A/R	Chute, Arc				576/600V
8	A030N943	A/R	Switch, Limit	11	A035P963	1	Harness, Wiring

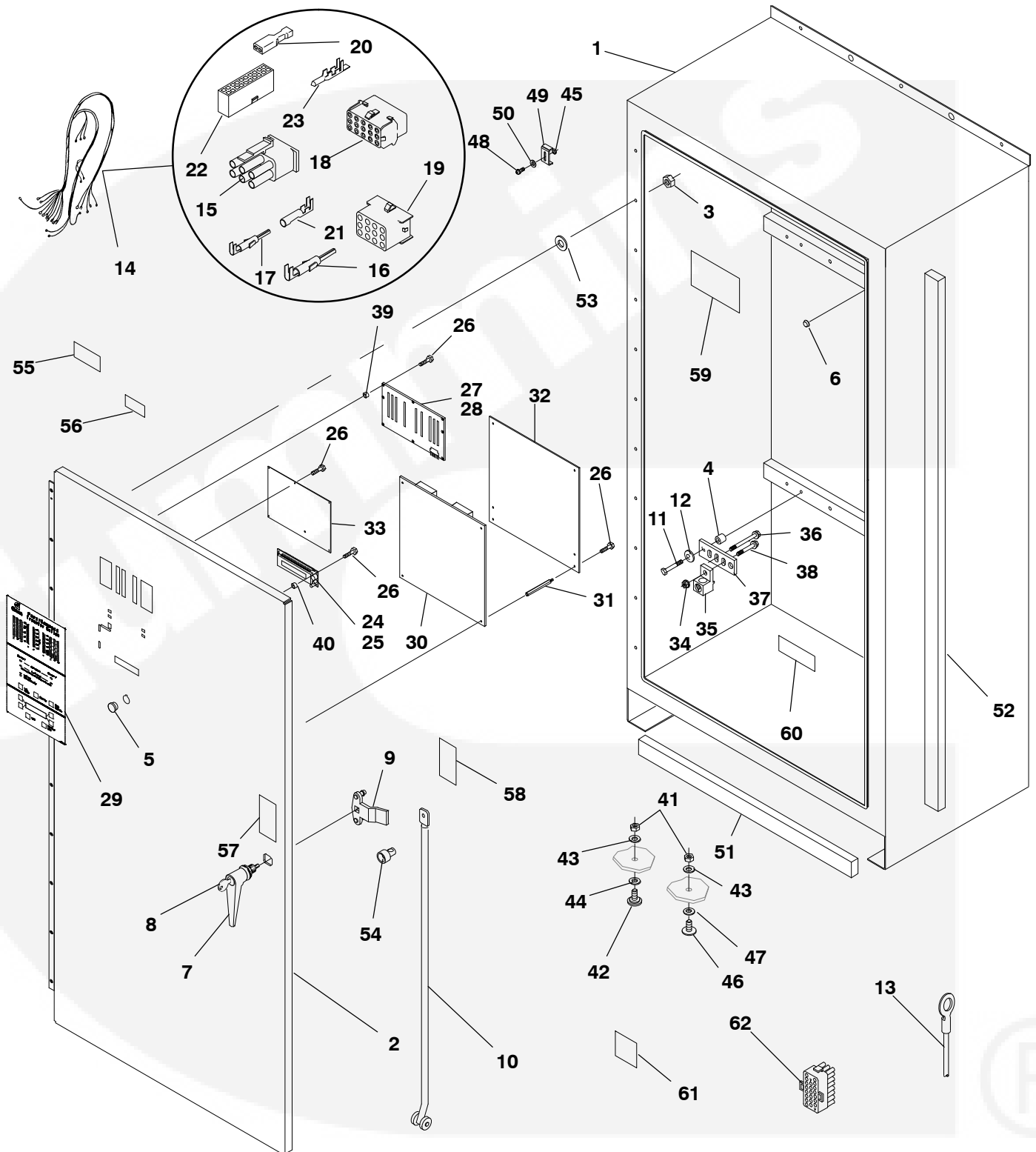
Transfer Switch 4000 Amps – Closed/Delayed Transition



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3623-24 A/R		Solenoid 208/240V
	306-3623-27 A/R		380/416V
	A040C324 A/R		480V
	A040C326 A/R		575/600V
2	A030N964 A/R		Switch, Limit
3	A030N947 A/R		Switch, Limit
4	A030N968 A/R		Switch, Limit
5	A030N949 A/R		Switch, Limit

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	A040D934 A/R		Contact, Moveable
7	A040D936 A/R		Contact, Moveable
8	A040E041 A/R		Contact, Stationary
9	A040A202 A/R		Cover, Arc Chamber – 4 Pole
10	A040A206 A/R		Cover, Arc Chamber – 3 Pole
11	A040C690 A/R		Relay, Control (12V Coil)
12	A040A029 A/R		Chute, Arc
13	A035P963	1	Harness, Wiring

Cabinet 1200 Amp

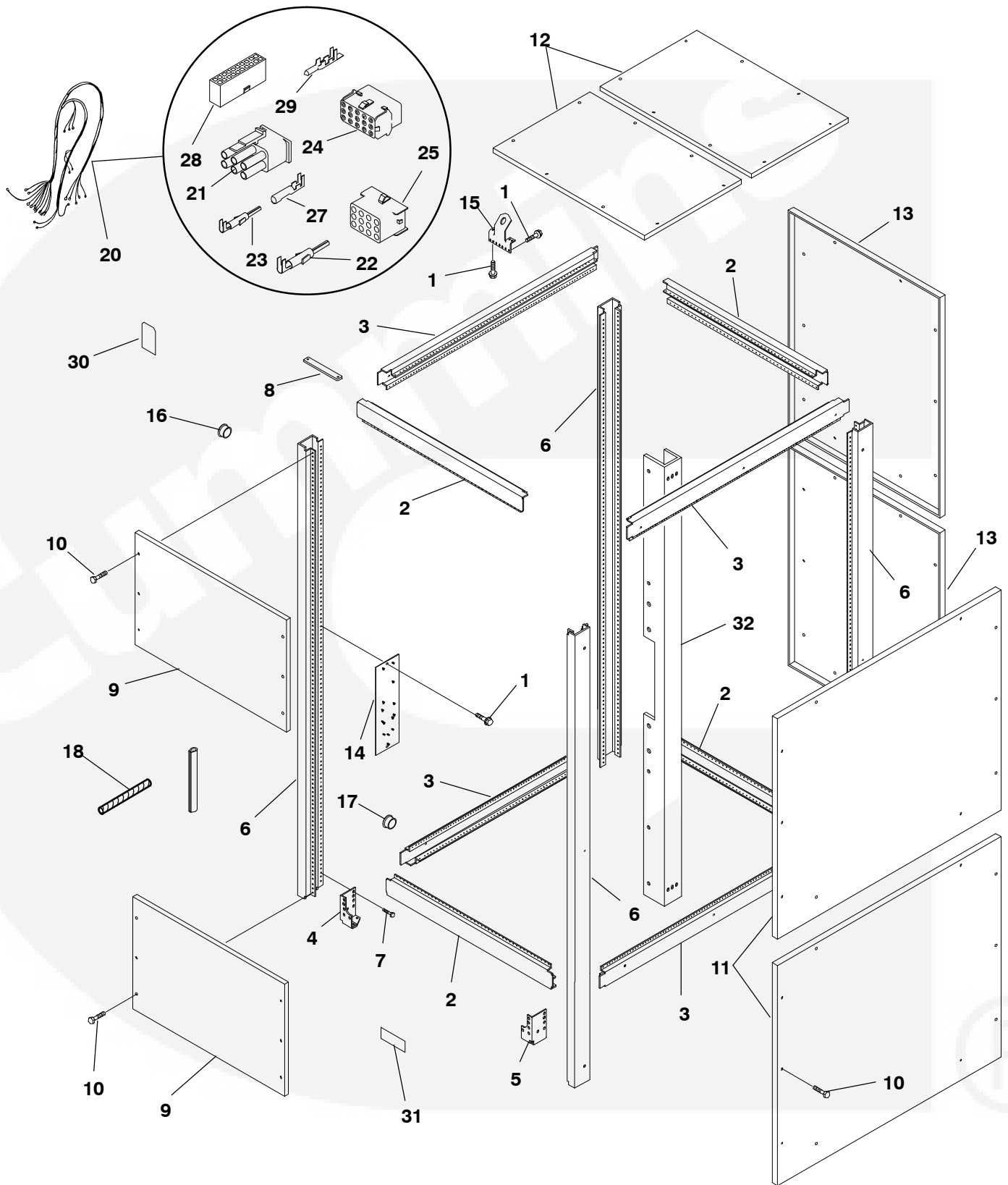


Cabinet 1200 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cabinet	30			Board, Printed Circuit – Power Module
	319-3908-01	1	Type 1, Type 3R, 12				Level 1 Control
	319-3909-01	1	Type 4				208-480 VAC
2			Door, Cabinet	300-5148-02	1		600 VAC
	319-3815-01	1	Type 1	300-5148-03	1		380-416 VAC
	319-3817-01	1	Type 4				Level 2 Control
	319-3816-01	1	Type 3R, 12	300-5148-04	1		208-480 VAC
3	870-0131	11	Nut, Hex – W/ET (#10-32)	300-5149-06	1		600 VAC
4	332-1348	2	Spacer, Neutral Bar	300-5149-07	1		380-416 VAC
5			Plug, Hole	300-5149-08	1		Standoff, Male Snap
	517-0137	5	Type 1	31 870-2216	4		Cover, Printed Circuit Board
	517-0266	1	Type 3R, 4, 12	32 306-4523	1		Board, Printed Circuit – Digital
6	508-0231	3	Bumper – Type 1	33			Level 1 Control
7	406-0613	1	Handle, Keyed (Includes Key) – Type 1, 3R, 12	300-5146	1		Level 2 Control
8	406-0649	1	Key, Replacement – Type 1, 3R, 12	300-5147-01	1		Nut, Flange Head – Self-Locking (5/16-18)
9	306-3525	1	Latch, Cam (3 Point) – Type 1, 3R, 12	34 870-0257	3		Lug, Solderless
10	306-3526-04	2	Rod, Roller – Type 1, 3R, 12	35 332-2016	3		Screw, Flange Head – Self-Locking (5/15-18 x 1-1/2)
11	800-0053	2	Screw, Cap – Hex Head (3/8-16 x 1-3/4)	36 821-0023	1		Connector, Neutral Bar
12	851-0022	2	Washer, Conical (3/8)	37 332-0772	1		Screw, Hex Flange Head – Self-Locking (5/16-18 x 7/8)
13			Lead (Quantity Used as Required)	38 821-0020	2		Standoff, Nylon
	226-3554-01	1	6.0"	39 870-2218-01	4		Standoff, Nylon
	226-3554-02	1	3.0"	40 870-2218-02	2		Nut, Hex (M8 x 1.25)
14			Harness, Wiring – Main (Includes Parts Marked *)	41 860-2008	6		Plug, Hole
	338-3887	1	Level 1 Control	42 517-0347	4		Washer, Flat (.328 ID x 1.00 OD)
	338-3888	1	Level 2 Control	43 526-0041	6		Washer, Flat – Neoprene
15	323-1317	1	* Plug, Connector (6 Place) (P6)	44 526-0455	4		Spring, Conical – Type 4
16	323-1703	1	* Pin, Contact (P6)	45 506-0031	11		Plug, Hole – Type 4, 12
17	323-1199	3	* Pin, Contact (P6)	46 517-0346	2		Washer, Flat – Neoprene (7/16) – Type 4, 12
18	323-1253	1	* Cap, Circuit (15 Pin) (J1)	47 526-0454	2		Screw, Round Head (5/16-18 x .75) – Type 4
19	323-1315	1	* Cap, Connector (12 Pin) (J2)	48 800-0317	11		Bracket, Door– Type 4
20	332-1993	3	* Socket, Contact	49 319-4725	11		Washer, Flat (5/16)– Type 4
21			* Socket, Contact (J1, J2)	50 526-2319	11		Gasket, Door – Type 3R, 4, 12
	323-1200	23	Level 1 Control	51 895-0293-11	2		Gasket, Door – Type 3R, 4, 12
	323-1200	26	Level 2 Control	52 895-0293-10	2		Washer, Rubber – Type 3R, 4, 12
22	323-1857	1	* Cap, Connector (20 Place) (J2)	53 508-0233	11		Guide, Rod
23	323-1858	17	* Pin, Contact (J20)	54 306-3467	2		Label, UL
24	300-5151	1	Module, Digital Display	55 098-2472	1		Label, Cabinet
25	319-4140-01	1	Display, Digital – Blank	56			Type 1
26	815-0959-03	19	Screw, Pan Head (M3 x 8)	098-6118	1		Type 3R
27	300-5180	1	Board, Printed Circuit – Bar Graph	098-6119	1		Type 4
28	319-4139-01	1	Plate, Display Cover – Blank	098-6120	1		Type 12
29			Membrane, Panel	098-6776	1		Label, Danger/ Warning
			Level 1 Control	57 098-7613	1		Label, Danger
	300-5185	1	Without Digital Display	58 098-5387	2		Label, Torque
	300-5186	1	With Digital Display	59 098-6367	1		Label, Ground
			Level 2 Control	60 098-6635	1		Label, Function
	300-5186	1	Without Meters–Bar Graph Display	61 098-7672	1		Plug, Circuit
	300-5271	1	With Meters–Bar Graph Display	62 323-1252	1		

* – Parts Included in 338-3887 and 338-3888 Wiring Harnesses

**Cabinet
Type 1
1600/2000/3000 Amp**

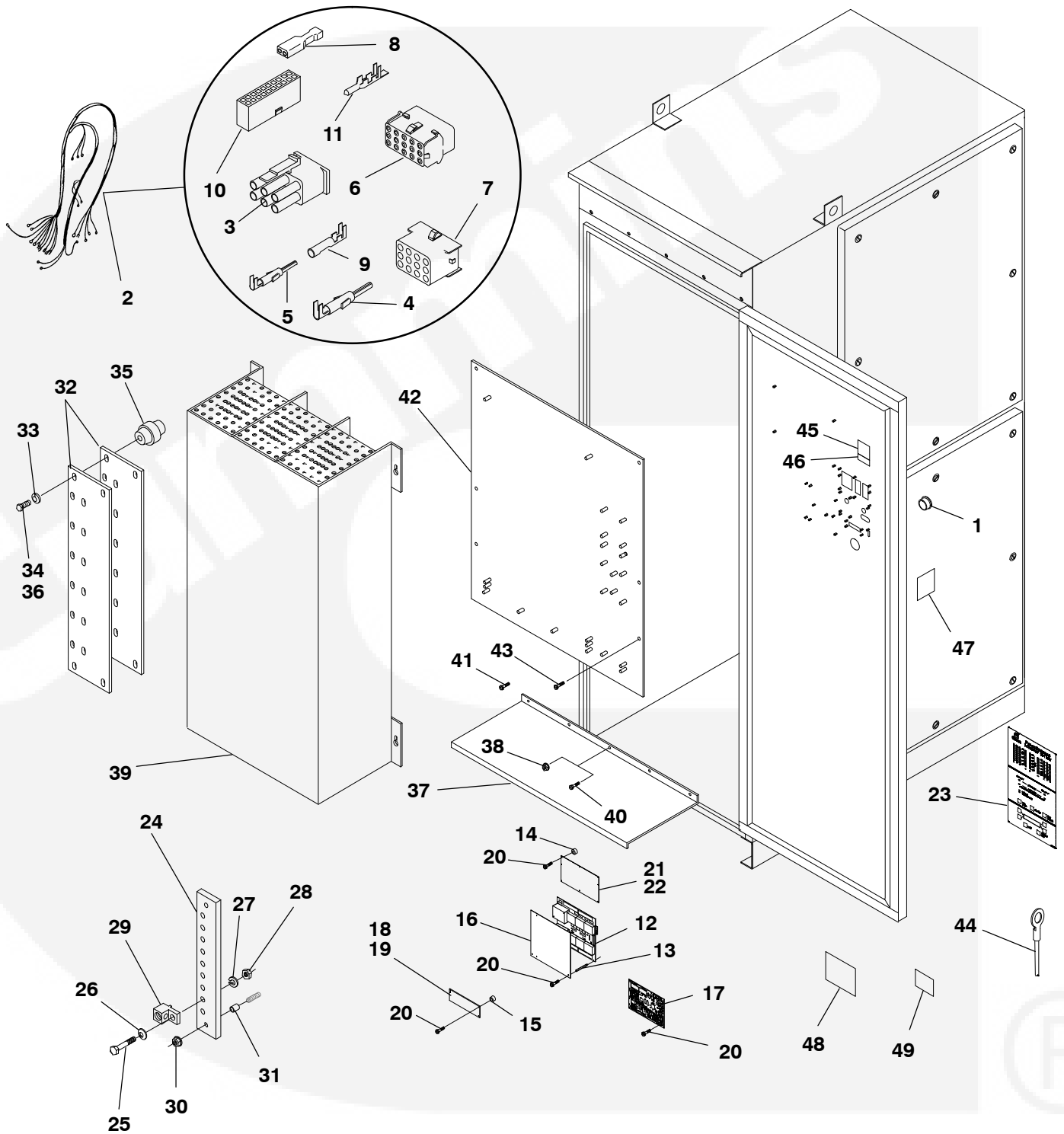


**Cabinet
Type 1
1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0261	110	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	17	517-0131	12	Plug, Hole (.375)
2	319-0540-03	4	Channel, Frame – Side to Side	18	332-2341	25"	Wrap, Cable
3	319-0542-05	4	Channel, Frame – Front to Back	19	508-1045	1	Edging, Protection
4	319-0535	4	Bracket, Corner – Right Hand	20			Harness, Wiring – Main (Includes Parts Marked *)
5	319-0536	4	Bracket, Corner – Left Hand		338-3887	1	Level 1 Control
6	319-0541	4	Channel, Corner – Vertical		338-3888	1	Level 2 Control
7	815-0261	96	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)	21	323-1317	1	* Plug, Connector (6 Place) (P6)
8	319-1760	4	Cover, Frame	22	323-1703	1	* Pin, Contact (P6)
9	319-0685	2	Cover, Blank	23	323-1199	3	* Pin, Contact (P6)
10	815-0667	73	Screw, Hex Head – Self-Locking – W/IT (1/4–20 x 1.25)	24	323-1253	1	* Cap, Circuit (15 Pin) (J1)
11	301-9750-04	4	Cover, Software Board – End/Rear	25	323-1315	1	* Cap, Connector (12 Pin) (J2)
12	301-9751-14	2	Cover, Software Board – Top	26	332-1993	3	* Socket, Contact
13	301-9750-08	2	Cover, Software Board – End/Rear	27			* Socket, Contact (J1, J2)
14	319-3949-01	1	Plate, Mounting		323-1200	23	Level 1 Control
15	319-1759	4	Bracket, Lifting		323-1200	26	Level 2 Control
16	517-0132	12	Plug, Hole (.437)	28	323-1857	1	* Cap, Connector (20 Place) (J2)
				29	323-1858	17	* Pin, Contact (J20)
				30	098-5811	1	Tag, Caution
				31	098-6635	1	Label, Ground
				32	319-0683	2	Channel, Mounting

* – Parts Included in 338-3887 and 338-3888 Wiring Harnesses

Cabinet and Transfer Switch
Type 3R, Type 4, Type 12
1600/2000/3000 Amp

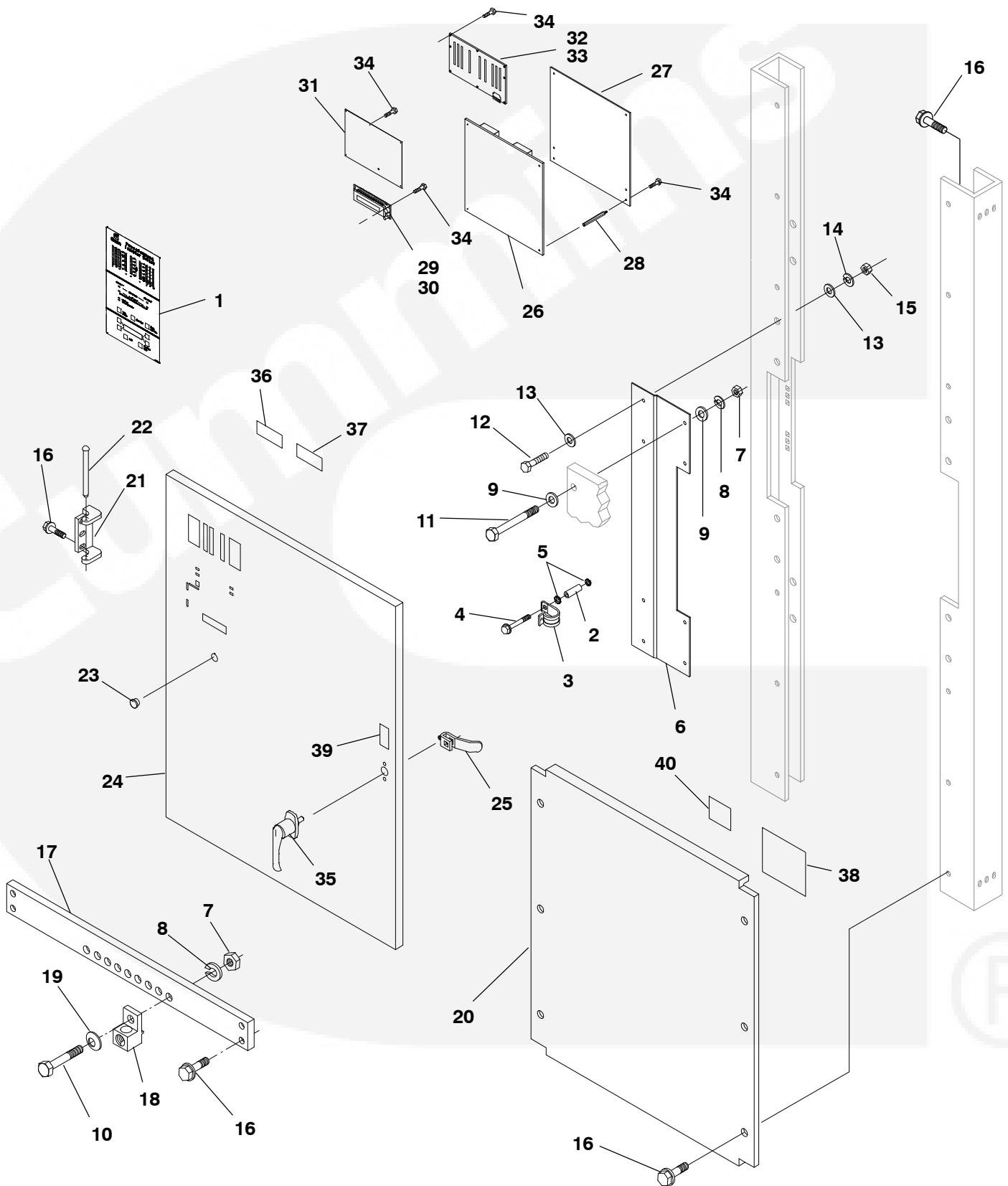


**Cabinet and Transfer Switch
Type 3R, Type 4, Type 12
1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	517-0346	1	Plug, Hole	26	851-0028	6	Washer, Conical (5/16)
2			Harness, Wiring – Main (Includes Parts Marked *)	27	850-0045	6	Washer, Lock (5/16)
	338-3887	1	Level 1 Control	28	862-0015	6	Nut, Hex (5/16)
	338-3888	1	Level 2 Control	29	332-2016	6	Lug, Solderless
3	323-1317	1	* Plug, Connector (6 Place) (P6)	30	870-0212	6	Nut, Self-Locking – Flange Head (1/4-20)
4	323-1703	1	* Pin, Contact (P6)	31	332-3169	2	Standoff – GND
5	323-1199	3	* Pin, Contact (P6)	32			Bus, Neutral – 3 Pole 1600/2000 Amp
6	323-1253	1	* Cap, Circuit (15 Pin) (J1)		337-2596	2	3000 Amp
7	323-1315	1	* Cap, Connector (12 Pin) (J2)		337-2596	3	3000 Amp
8	332-1993	3	* Socket, Contact	33	851-0022	4	Washer, Conical – 3 Pole
9			* Socket, Contact (J1, J2)	34	800-0048	4	Screw, Cap – Hex Head (3/8-16 x 3/4) – 3 Pole
	323-1200	23	Level 1 Control	35	332-2512	4	Standoff, Insulator – 3 Pole
	323-1200	26	Level 2 Control	36			Screw, Cap – Hex Head (3/8-16) – 3 Pole
10	323-1857	1	* Cap, Connector (20 Place) (J2)		800-0050	4	1600/2000 Amp – 1" lg.
11	323-1858	17	* Pin, Contact (J20)		800-0051	4	3000 Amp – 1.25" lg.
12			Board, Printed Circuit – Power Module	37			Shield, Gas Deflector 3 Pole
			Level 1 Control		306-4155	1	4 Pole
	300-5148-02	1	208-480 VAC		306-4156	1	
	300-5148-03	1	600 VAC	38	870-0221	5	Nut, Hex – W/ET (#8)
	300-5148-04	1	380-416 VAC	39	306-3615-01	1	Cover, Transfer Switch
			Level 2 Control	40	815-0447	2	Screw, Round Head – Cross Recessed – W/IT (#8-32 x 3/4)
	300-5149-06	1	208-480 VAC	41	815-0388	20	Screw, Pan Head – Cross Recessed (#6-32 x .50)
	300-5149-07	1	600 VAC	42			Plate, Front Divider
	300-5149-08	1	380-416 VAC		319-3947-01	1	3 Pole
13	870-2216	4	Standoff, Male Snap		319-3948-01	1	4 Pole
14	870-2218-01	4	Standoff, Nylon	43	821-0010	6	Screw, Hex – Locking (1/4-20 x 1/2)
15	870-2218-02	2	Standoff, Nylon	44			Lead (Quantity Used as Required)
16	306-4523	1	Cover, Printed Circuit Board		226-3554-01	1	6.0"
17			Board, Printed Circuit – Digital		226-3554-02	1	3.0"
	300-5146	1	Level 1 Control	45	098-2472	1	Label, UL
	300-5147-01	1	Level 2 Control	46			Label, Cabinet
18	300-5151	1	Module, Digital Display		098-6118	1	Type 1
19	319-4140-01	1	Display, Digital – Blank		098-6119	1	Type 3R
20	815-0959-03	17	Screw, Pan Head (M3 x 8)		098-6120	1	Type 4
21	300-5180	1	Board, Printed Circuit – Bar Graph		098-6776	1	Type 12
22	319-4139-01	1	Plate, Display Cover – Blank	47	098-5387	1	Label, Danger
23			Membrane, Panel	48	098-6221	1	Label, Power Cable
			Level 1 Control	49	098-6635	1	Label, Ground
	300-5391	1	Without Digital Display				
	300-5392	1	With Digital Display				
			Level 2 Control				
	300-5392	1	Without Meters–Bar Graph Display				
	300-5393	1	With Meters–Bar Graph Display				
24	337-2595-01	1	Bus, Ground				
25	800-0029	6	Screw, Cap – Hex Head (5/16-18 x 1-1/8)				

* – Parts Included in 338-3887 and 338-3888 Wiring Harnesses

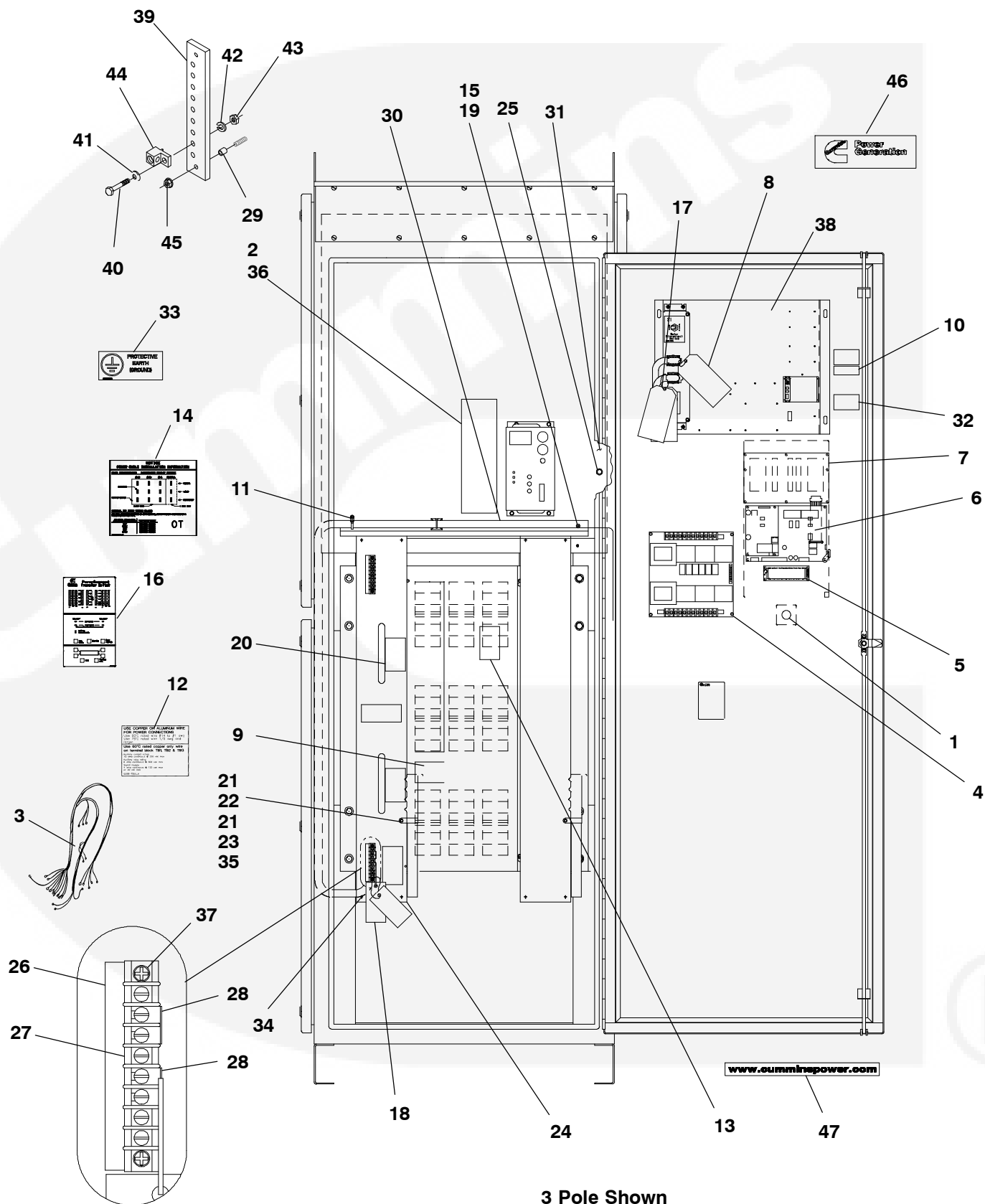
**Door Assembly
Type 1 Cabinet
1600/2000/3000 Amp**



**Door Assembly
Type 1 Cabinet
1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Membrane, Panel	17	337-2440	1	Bus, Ground
	300-5185	1	Level 1 Control	18	332-2016	6	Lug, Solderless
	300-5186	1	Without Digital Display	19	851-0028	6	Washer, Conical
			With Digital Display	20	319-0684	2	Plate, Barrier
			Level 2 Control	21	406-0686	3	Hinge, Outside
	300-5186	1	Without Meters-Bar Graph Display	22	301-4984	3	Pin, Hinge
	300-5271	1	With Meters-Bar Graph Display	23	517-0137	1	Plug, Hole (.875)
2	370-4061	1	Spacer	24	319-3781-01	1	Door, Cabinet
3	425-1798	1	Clamp, Cable	25	406-0089	1	Catch, Handle
4	815-0592	1	Screw, Hex Washer Head - Thread Forming (#8-32 x 1.38)	26			Board, Printed Circuit - Power Module
5	853-0005	2	Washer, Lock - W/ET (#8)		300-5148-02	1	Level 1 Control
6	319-0682	1	Plate, Mounting - 3 Pole		300-5148-03	1	208-480 VAC
7			Nut, Hex (5/16-18)		300-5148-04	1	600 VAC
	862-0015	18	3 Pole		300-5149-06	1	380-416 VAC
	862-0015	14	4 Pole		300-5149-07	1	Level 2 Control
8			Washer, Lock (5/16)		300-5149-08	1	208-480 VAC
	850-0045	18	3 Pole	27	306-4523	1	600 VAC
	850-0045	14	4 Pole	28	870-2216	4	380-416 VAC
9			Washer, Flat (5/16)	29	300-5151	1	Cover, Printed Circuit Board
	526-0115	24	3 Pole	30	319-4140-01	1	Standoff, Male Snap
	526-0115	16	4 Pole	31		1	Module, Digital Display
10			Screw, Cap - Hex Head (5/16-18 x 1.00)		300-5146	1	Display, Digital - Blank
	800-0028	10	3 Pole		300-5147-01	1	Board, Printed Circuit - Digital
	800-0028	6	4 Pole		300-5180	1	Level 1 Control
11	800-0034	8	Screw, Cap - Hex Head (5/16-18 x 2.25)	32		1	Level 2 Control
12	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1.25) - 3 Pole		319-4139-01	1	Board, Printed Circuit - Bar Graph
13	526-0029	4	Washer, Flat (3/8) - 3 Pole	33	815-0959-03	17	Plate, Display Cover - Blank
14	850-0050	2	Washer, Lock (3/8) - 3 Pole	34	406-0463	1	Screw, Pan Head (M3 x 8)
15	862-0003	2	Nut, Hex (3/8-16) - 3 Pole	35	098-7568	1	Handle, Locking
16	815-0261	39	Screw, Hex Washer Head - Thread Forming (1/4-20 x .50)	36	098-2472	1	Label, Marking
				37	098-6221	1	Label, UL
				38	098-7613	1	Label, Power Cable
				39	098-7505	1	Label, Safety Shield
				40		1	Label, Customer Wiring

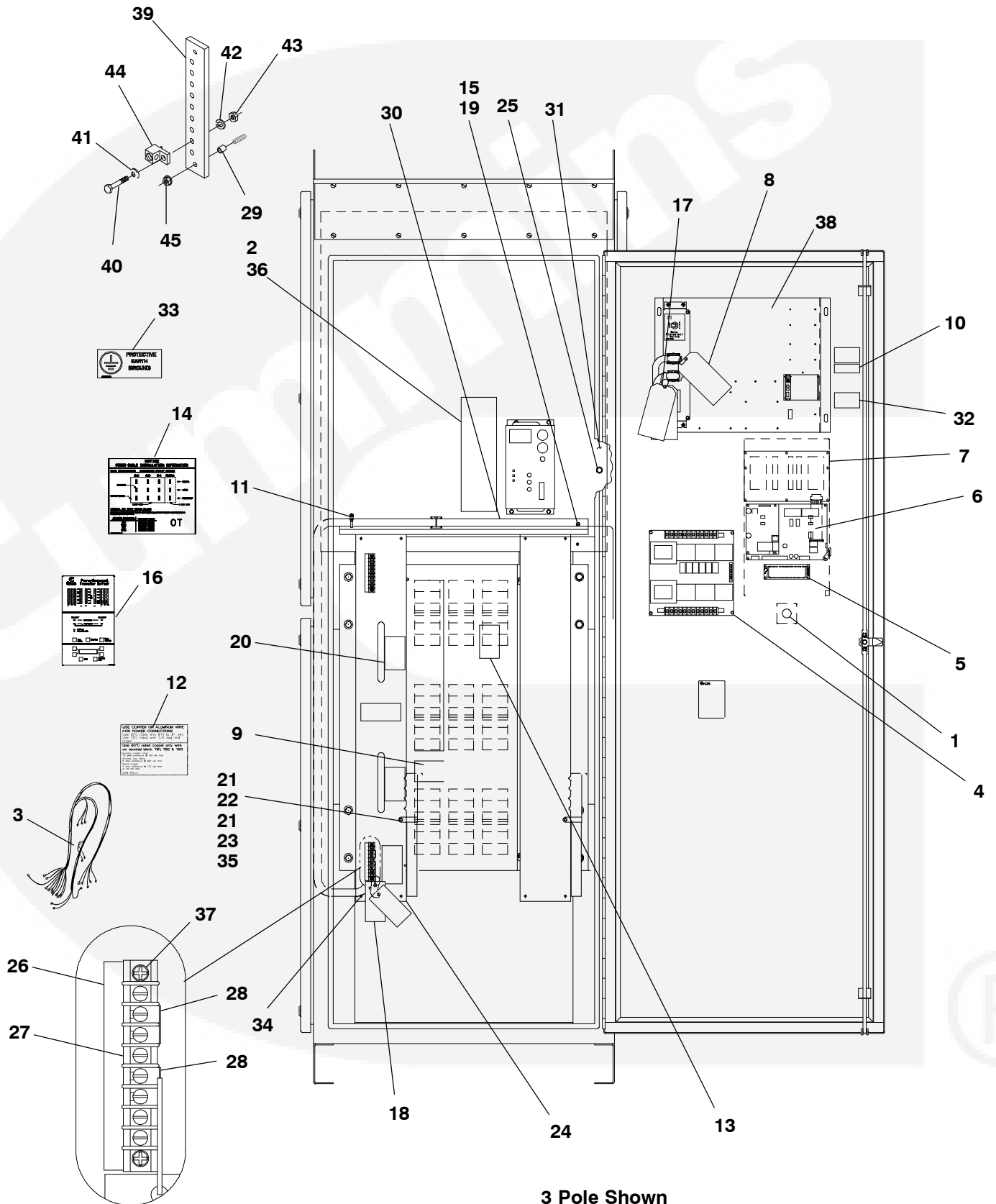
**Cabinet
Type 1
4000 Amp**



**Cabinet
Type 1
4000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	517-0137	1	Plug, Hole	17	338-3870-01	1	Harness, Extension
2	306-4632-01	1	Plate, Mounting	18	098-6107	1	Label, Jumper Cable
3			Harness, Wiring – Main (Includes Parts Marked *)	19	870-0221	5	Nut, Hex – W/ET (#8)
	338-4828-01	1	Level 1 Control	20	098-7610	1	Label, Solenoid
	338-4828-02	1	Level 2 Control	21	853-0005	2	Washer, Lock – W/ET (#8)
4			Board, Printed Circuit – Power Module	22	370-4061	1	Spacer
			Level 1 Control	23	425-1798	1	Clamp, Cable
	300-5148-02	1	208-480 VAC	24	319-0649	1	Cover, Solenoid
	300-5148-03	1	600 VAC	25	821-0010	6	Screw, Hex Head – Locking (1/4-20 x .50)
	300-5148-04	1	380-416 VAC	26	332-2903	2	Strip, Marker
			Level 2 Control	27	332-2832	2	Block, Terminal
	300-5149-06	1	208-480 VAC	28	332-2605	2	Jumper, Terminal
	300-5149-07	1	600 VAC	29	332-3169	2	Standoff – GND
	300-5149-08	1	380-416 VAC	30			Shield, Gas Deflector
5	300-5151	1	Module, Digital Display		306-4155	1	3 Pole
6			Board, Printed Circuit – Digital		306-4156	1	4 Pole
	300-5146	1	Level 1 Control	31			Panel, Control Box
	300-5147-01	1	Level 2 Control		319-6978-02	1	3 Pole
7	300-5180	1	Board, Printed Circuit – Bar Graph		319-6887-02	1	4 Pole
8	323-1252	1	Plug, Circuit	32	098-7568	1	Label, Marking
9	098-8576	1	Label, Information	33	098-6635	1	Label, Ground
10	098-6118	1	Label, Cabinet – Type 1	34	815-0538	4	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .50)
11	815-0937	20	Screw, Pan Head – Cross Recessed – Thread Cutting (#6-32 x .50)	35	815-0592	1	Screw, Hex Washer Head – Thread Forming (#8-32 x 1.38)
12	098-7505	1	Label, Customer Wiring	36	870-0212	10	Nut, Self-Locking – Flange Head (1/4-20)
13	098-5387	9	Label, Danger	37	815-0651	4	Screw, Machine – Round Head (#6-32 x .75)
14	098-6221	1	Label, Power Cable	38	319-3791-01	1	Shield, Plate
15	815-0447	2	Screw, Round Head – Cross Recessed – W/IT (#8-32 x 3/4)	39	337-2595-01	1	Bus, Ground
16			Membrane, Panel	40	800-0029	6	Screw, Cap – Hex Head (5/16-18 x 1-1/8)
			Level 1 Control	41	851-0028	6	Washer, Conical (5/16)
	300-5391	1	Without Digital Display	42	850-0045	6	Washer, Lock (5/16)
	300-5392	1	With Digital Display	43	862-0015	6	Nut, Hex (5/16)
			Level 2 Control	44	332-2016	6	Lug, Solderless
	300-5392	1	Without Meters-Bar Graph Display	45	870-0212	6	Nut, Self-Locking – Flange Head (1/4-20)
	300-5393	1	With Meters-Bar Graph Display	46	098-7902-09	1	Label, Logo
				47	098-8506-02	1	Label, Information

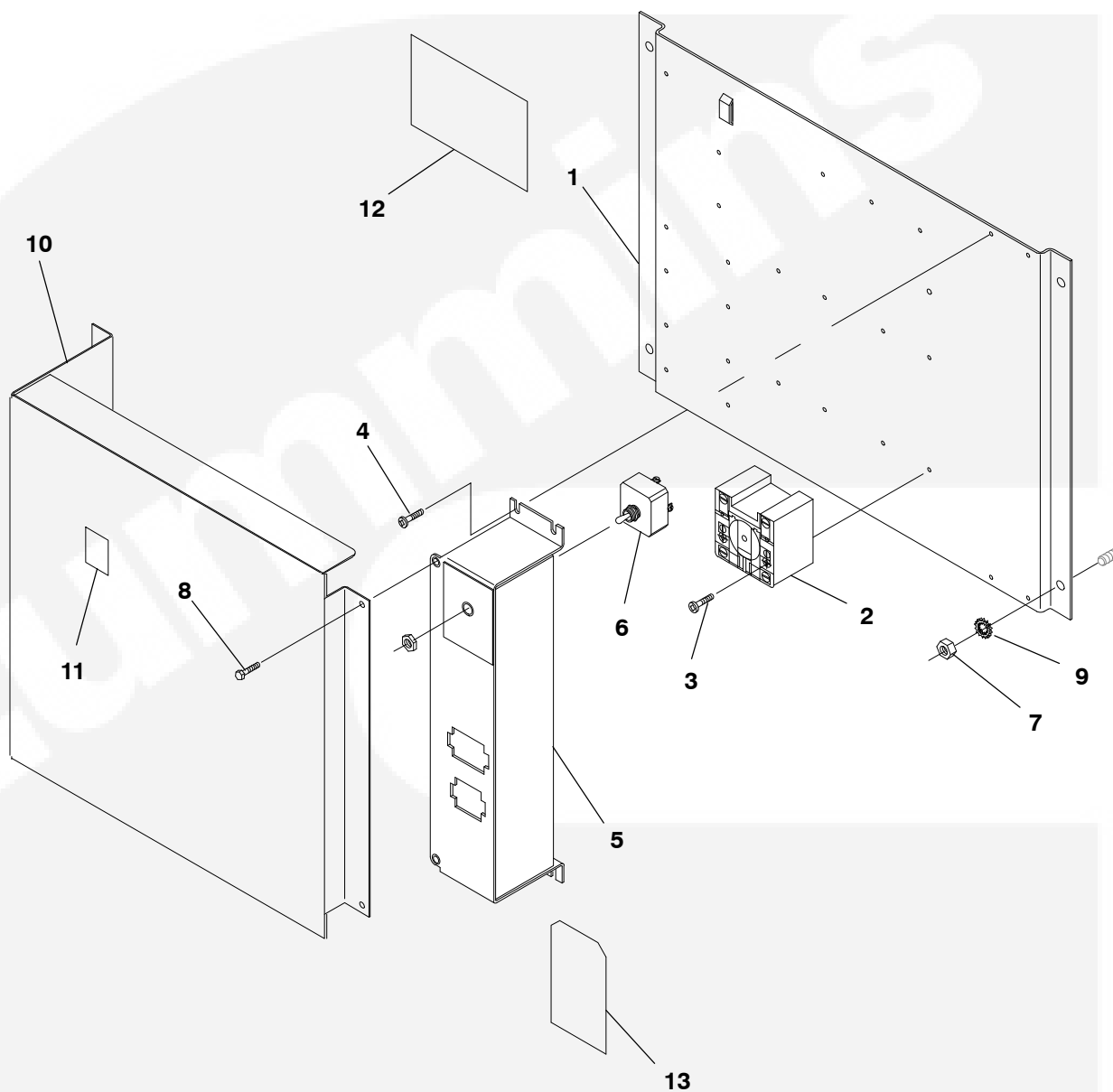
Cabinet Type 3R, Type 4, Type 12 4000 Amp



Cabinet
Type 3R, Type 4, Type 12
4000 Amp

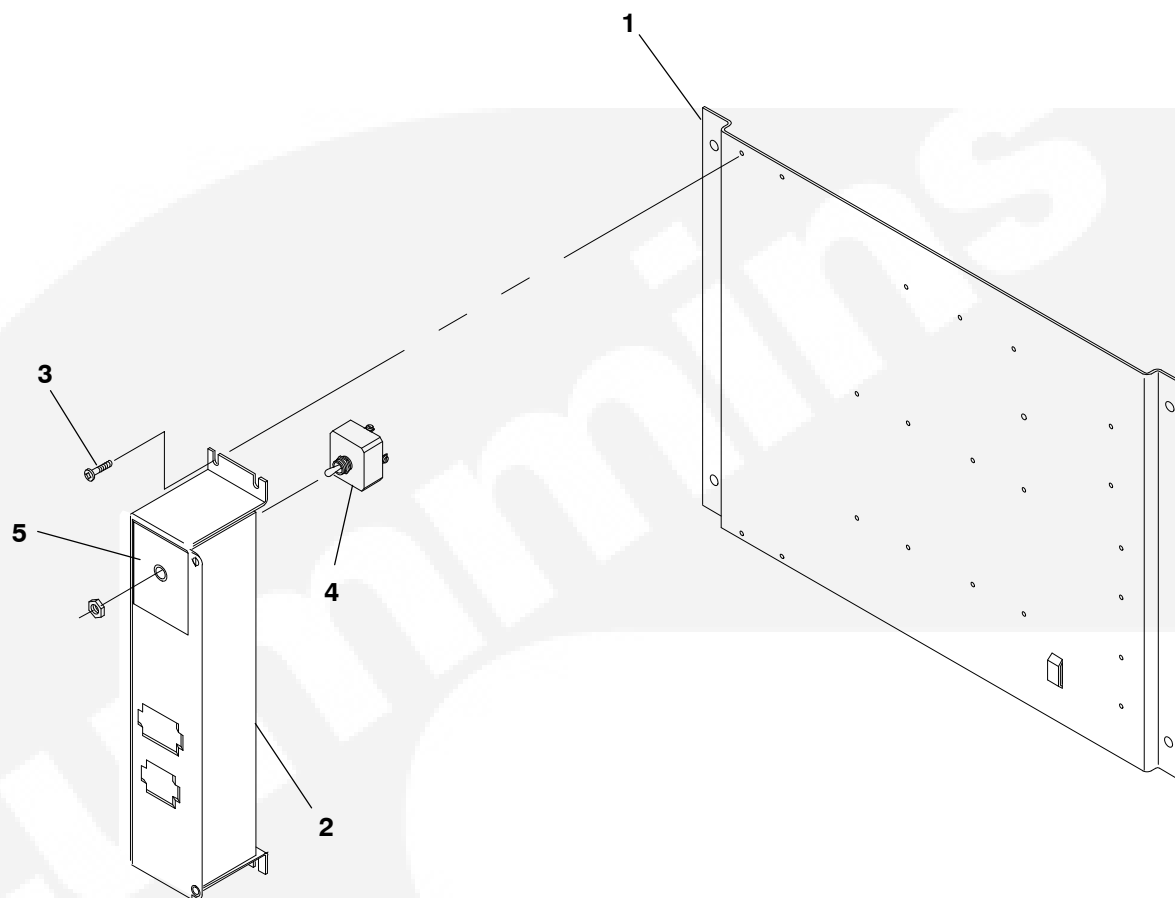
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	517-0137	1	Plug, Hole	17	338-3870-01	1	Harness, Extension
2	306-4632-01	1	Plate, Mounting	18	098-6107	1	Label, Jumper Cable
3			Harness, Wiring – Main (Includes Parts Marked *)	19	870-0221	5	Nut, Hex – W/ET (#8)
	338-4828-01	1	Level 1 Control	20	098-7610	1	Label, Solenoid
	338-4828-02	1	Level 2 Control	21	853-0005	2	Washer, Lock – W/ET (#8)
4			Board, Printed Circuit – Power Module	22	370-4061	1	Spacer
			Level 1 Control	23	425-1798	1	Clamp, Cable
	300-5148-02	1	208-480 VAC	24	319-0649	1	Cover, Solenoid
	300-5148-03	1	600 VAC	25	821-0010	6	Screw, Hex Head – Locking (1/4-20 x .50)
	300-5148-04	1	380-416 VAC	26	332-2903	2	Strip, Marker
			Level 2 Control	27	332-2832	2	Block, Terminal
	300-5149-06	1	208-480 VAC	28	332-2605	2	Jumper, Terminal
	300-5149-07	1	600 VAC	29	332-3169	2	Standoff – GND
	300-5149-08	1	380-416 VAC	30			Shield, Gas Deflector
5	300-5151	1	Module, Digital Display		306-4155	1	3 Pole
6			Board, Printed Circuit – Digital		306-4156	1	4 Pole
	300-5146	1	Level 1 Control	31			Panel, Control Box
	300-5147-01	1	Level 2 Control		319-6978-02	1	3 Pole
7	300-5180	1	Board, Printed Circuit – Bar Graph		319-6887-02	1	4 Pole
8	323-1252	1	Plug, Circuit	32	098-7568	1	Label, Marking
9	098-8576	1	Label, Information	33	098-6635	1	Label, Ground
10			Label, Cabinet	34	815-0538	4	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .50)
	098-6119	1	Type 3R	35	815-0592	1	Screw, Hex Washer Head – Thread Forming (#8-32 x 1.38)
	098-6120	1	Type 4				
	098-6776	1	Type 12				
11	815-0937	20	Screw, Pan Head – Cross Recessed – Thread Cutting (#6-32 x .50)	36	870-0212	10	Nut, Self-Locking – Flange Head (1/4-20)
12	098-7505	1	Label, Customer Wiring	37	815-0651	4	Screw, Machine – Round Head (#6-32 x .75)
13	098-5387	9	Label, Danger	38	319-3791-01	1	Shield, Plate
14	098-6221	1	Label, Power Cable	39	337-2595-01	1	Bus, Ground
15	815-0447	2	Screw, Round Head – Cross Recessed – W/IT (#8-32 x 3/4)	40	800-0029	6	Screw, Cap – Hex Head (5/16-18 x 1-1/8)
16			Membrane, Panel	41	851-0028	6	Washer, Conical (5/16)
			Level 1 Control	42	850-0045	6	Washer, Lock (5/16)
	300-5391	1	Without Digital Display	43	862-0015	6	Nut, Hex (5/16)
	300-5392	1	With Digital Display	44	332-2016	6	Lug, Solderless
			Level 2 Control	45	870-0212	6	Nut, Self-Locking – Flange Head (1/4-20)
	300-5392	1	Without Meters–Bar Graph Display				
	300-5393	1	With Meters–Bar Graph Display				

Accessory Control Plate 1200 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3813-01	1	Plate, Door	7	860-2007	4	Nut, Hex (M6 x 1)
2	307-2928	4	Relay, Power (K1, K2, K3, K4)	8	800-3020	2	Screw, Cap - Hex Head (M4 x 0.7 x 13)
3	815-0792-05	8	Screw, Pan Head - Cross Recessed (M4 x 0.7 x 16)	9	856-0006	1	Washer, Lock - W/EIT (1/4)
4	815-0792-02	4	Screw, Pan Head - Cross Recessed (M4 x 0.7 x 8)	10	319-3987-01	1	Cover, Relay Plate
5	319-3941-02	1	Bracket, Connector	11	098-7273	1	Label, Cover
6	308-0923	1	Switch, On-Off	12	098-7599	1	Label, Plate Assembly
				13	098-5589	1	Tag, Caution

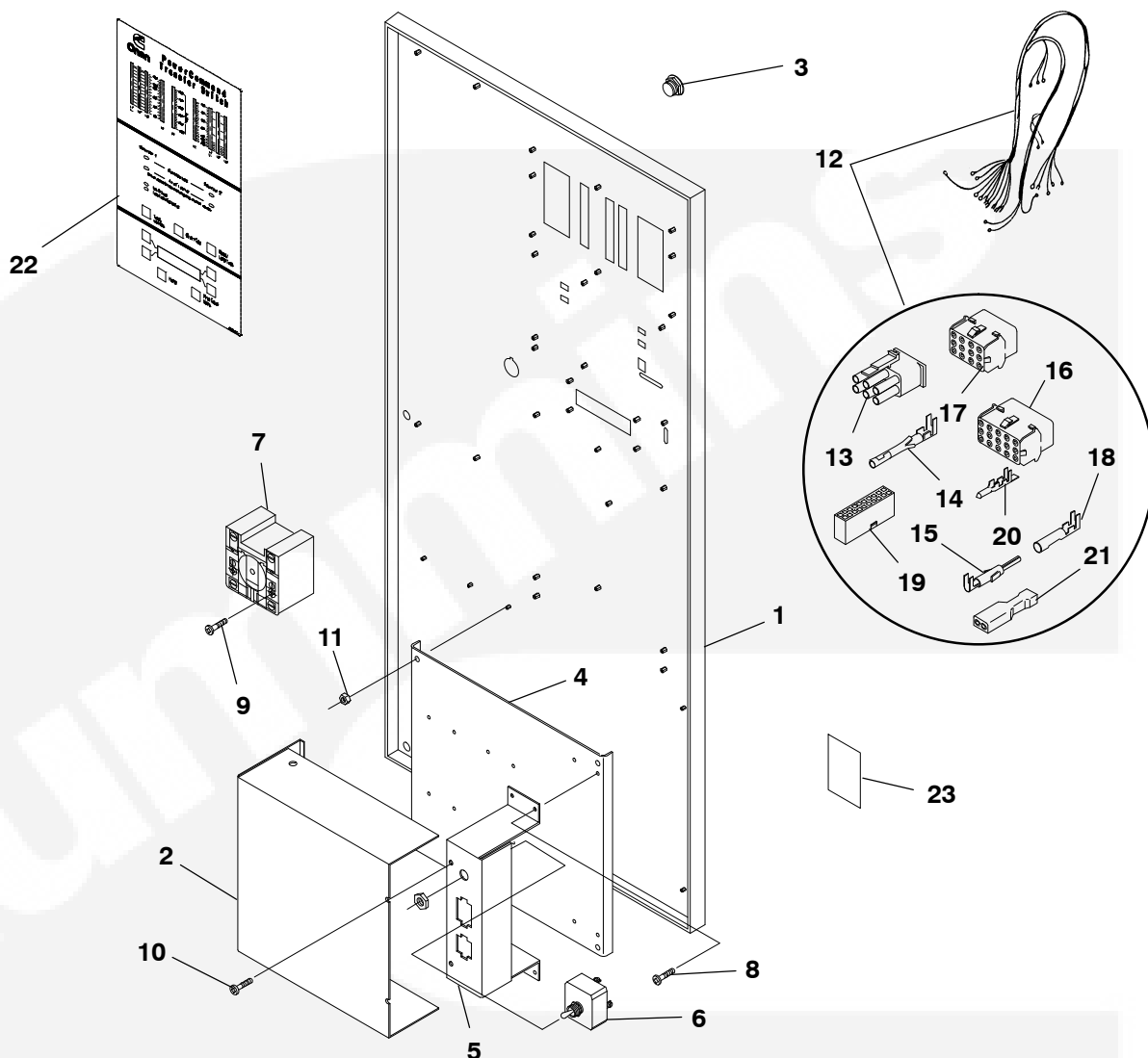
Accessory Control Plate 1600–4000 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4183-01	1	Plate, Door
2	319-4436-01	1	Bracket, Labeled
3	815-0792-02	4	Screw, Pan Head – Cross Recessed (M4 x 0.7 x 8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	308-0923	1	Switch, On-Off
5	098-7592	1	Label, Bracket

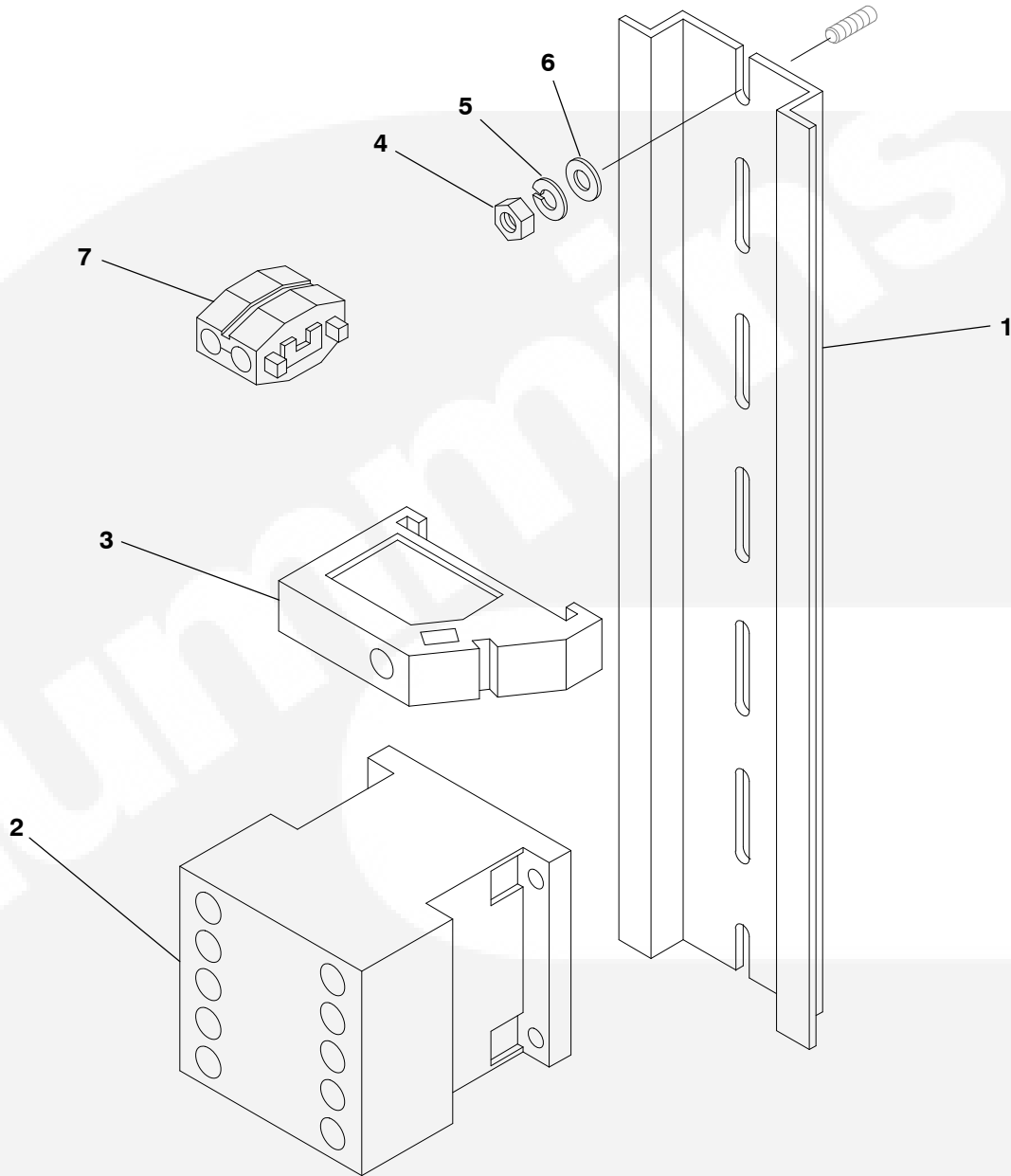
Plate and Wiring Harness (Open Construction)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3810-01	1	Plate, Open Construction	16	323-1253	1	* Cap, Circuit (15 Pin) (J1)
2	319-3987-01	1	Cover, Relay Plate	17	323-1315	1	* Cap, Connector (12 Pin) (J2)
3	517-0137	1	Plug, Hole	18	323-1200	23	* Socket, Contact (J1, J2)
4	319-3813-01	1	Plate, Relay	19	323-1857	1	* Cap, Connector (20 Place) (J20)
5	319-3941-02	1	Bracket, Connector	20	323-1858	1	* Pin, Contact (J20)
6	308-0923	1	Switch, On-Off	21	332-1993	4	* Socket, Contact
7	307-2928	4	Relay, Power (K1, K2, K3, K4)	22			Membrane, Panel
8	815-0792-02	4	Screw, Pan Head - Cross Recessed (M4 x 0.7 x 8)				Level 1 Control
9	815-0792-05	8	Screw, Pan Head - Cross Recessed (M4 x 0.7 x 16)		300-5185	1	Without Digital Display
10	800-3020	2	Screw, Hex Head (M4 x 0.7 x 13)		300-5186	1	With Digital Display
11	860-2007	4	Nut, Hex (M6 x 1)		300-5186	1	Level 2 Control
12			Harness, Wiring (Includes Parts Marked *)		300-5271	1	Without Meters-Bar Graph Display
	338-3892	1	Level 1 Control		300-5271	1	With Meters-Bar Graph Display
	338-3893	1	Level 2 Control		098-7643	1	Label, Motor Disable Switch
13	323-1317	1	* Plug, Connector (6 Place) (P6)				
14	323-1703	1	* Pin, Contact (P6)				
15	323-1199	1	* Pin, Contact (P6)				

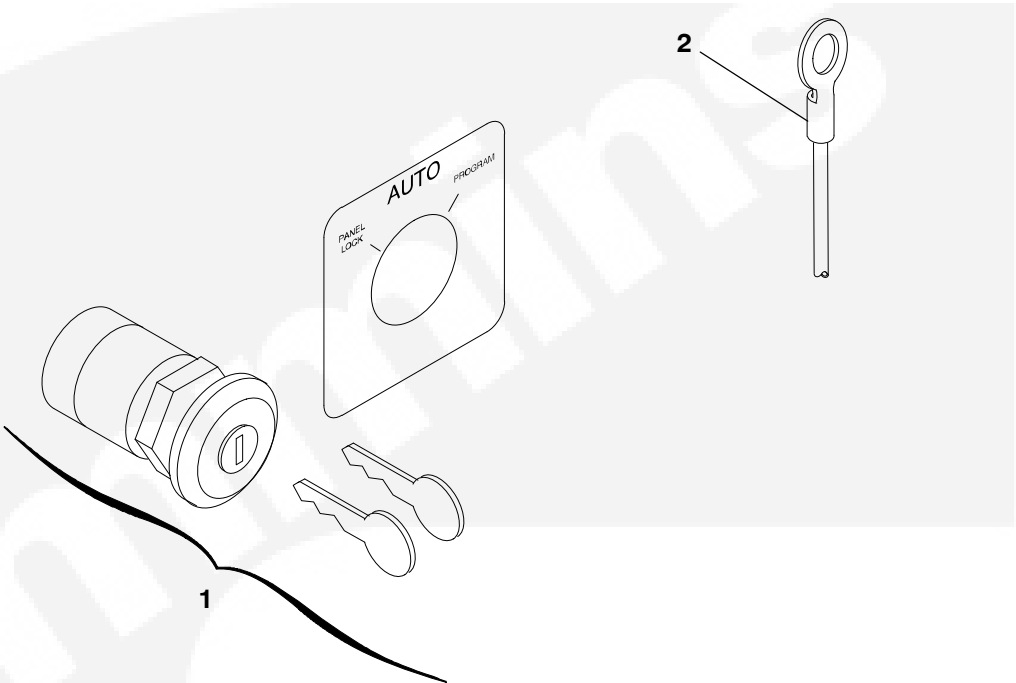
* - Parts Included in 338-3892 and 338-3893 Wiring Harnesses

Auxiliary Relay



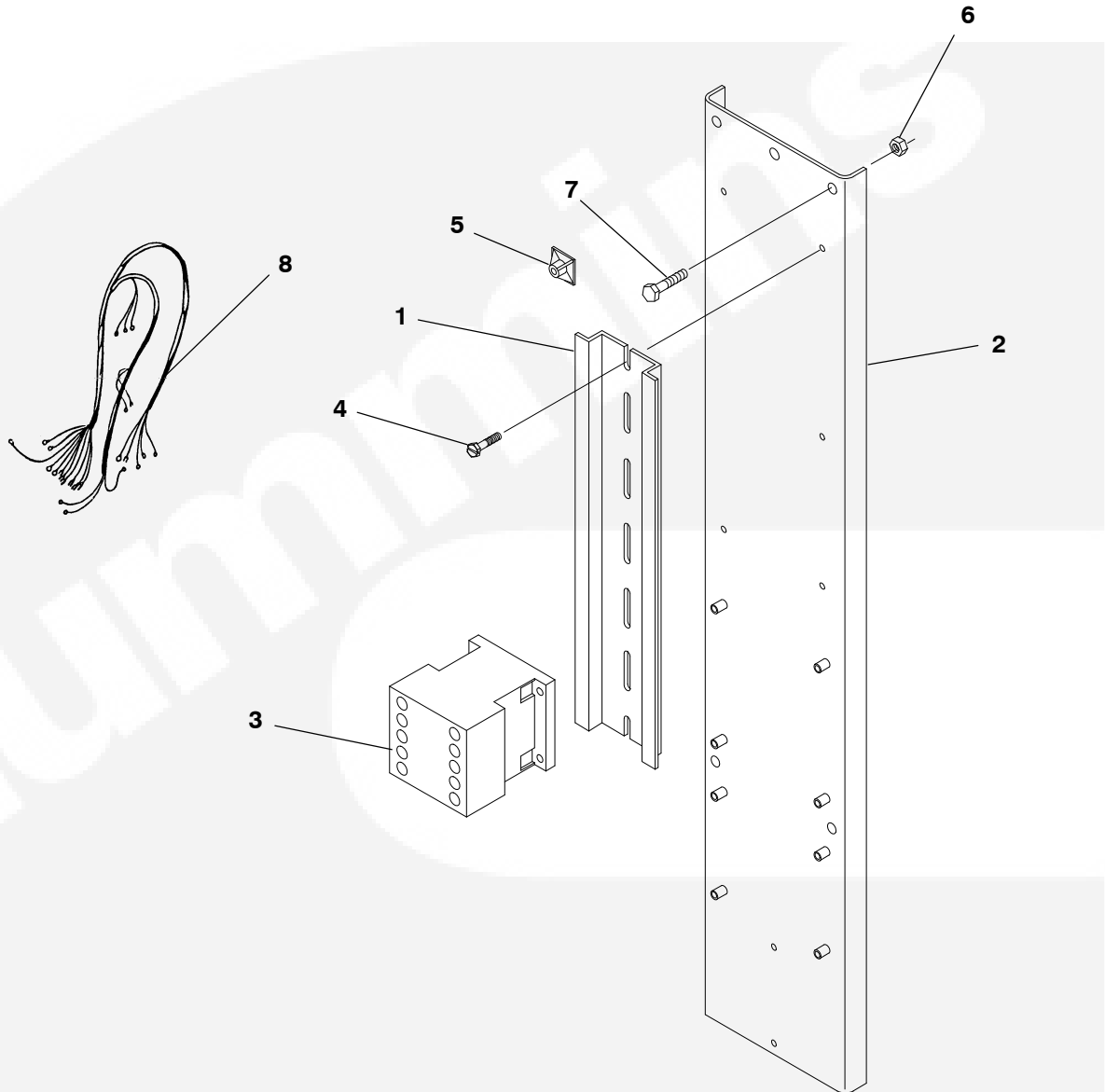
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-02	1	Rail, Terminal	4	860-0008	2	Nut, Hex (#8-32)
2	307-2873	1	Relay, Control	5	853-0005	2	Washer, Lock – ET (#8)
	307-2874	1	12 VDC	6	526-0003	2	Washer, Flat (#8)
			24 VDC	7	332-2230	1	Terminal, Tap – Plier
3	332-2878	2	Bracket, End				

Front Panel Security



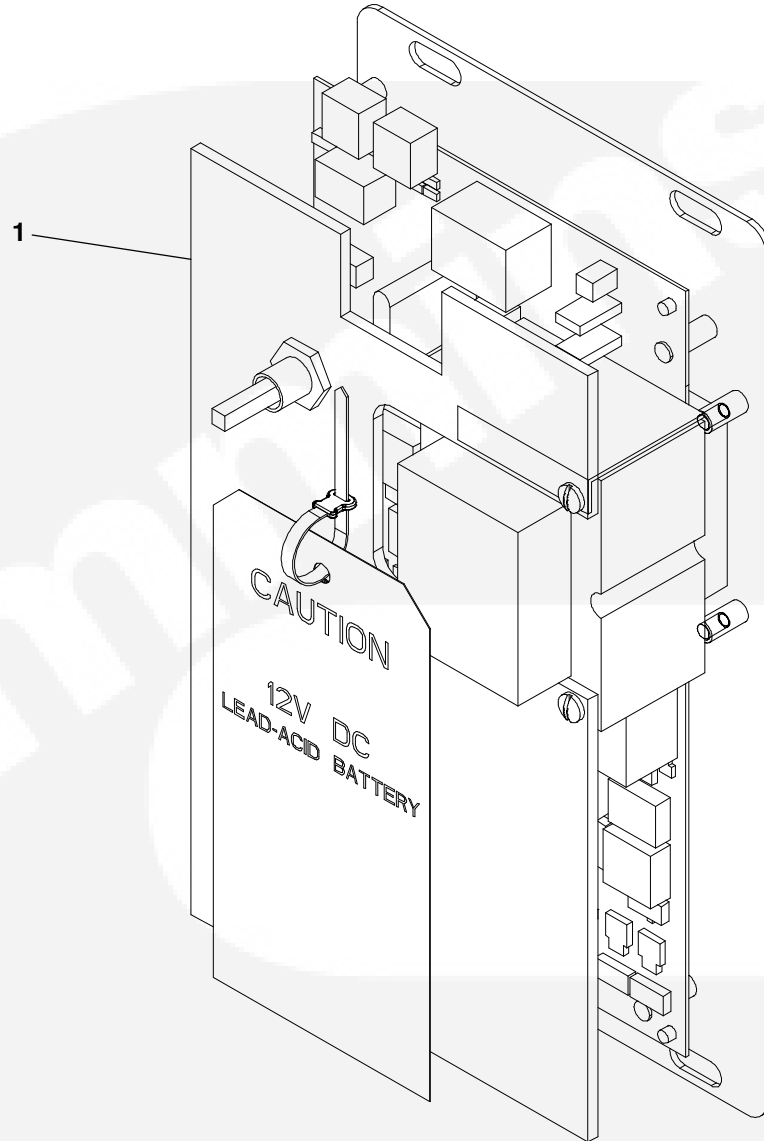
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1094	1	Switch, Selector	2			Lead
					226-4794-01	1	14" (Marked S20-2 - J27-5)
					226-4794-02	1	16" (Marked S20-2 - J27-11)

Wiring Harness Battery Charger (Generator Set to Generator Set)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-04	1	Rail, Terminal	7	800-0005	4	Screw, Cap – Hex Head (1/4–20 x .75)
2	319-3943-01	1	Plate, Mounting	8	338-3837	1	Harness, Battery Charger 1200A
3	307-2873	1	Relay, Control (12 VDC)		338-4029	1	1600–3000A
4	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)	9	307-2861-12	1	Relay, Control (Not Shown)
5	332-2420	2	Mount, Cable Tie				
6	870-0212	4	Nut, Self-Locking (1/4–20)				

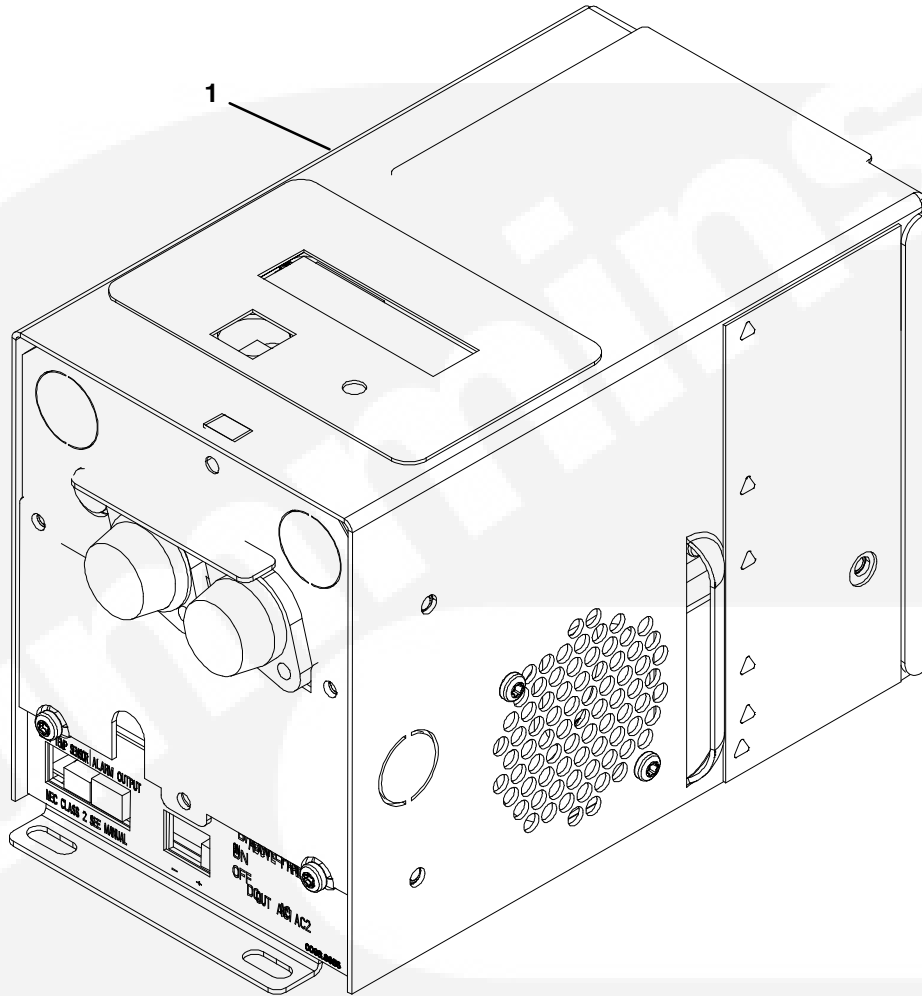
Battery Charger **2 Amp, 12/24 Volt**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-6026-09	1	120V				
	300-6026-10	1	208V				
	300-6026-11	1	240V				
	300-6026-13	1	380V				
	300-6026-14	1	416V				
	300-6026-15	1	480V				

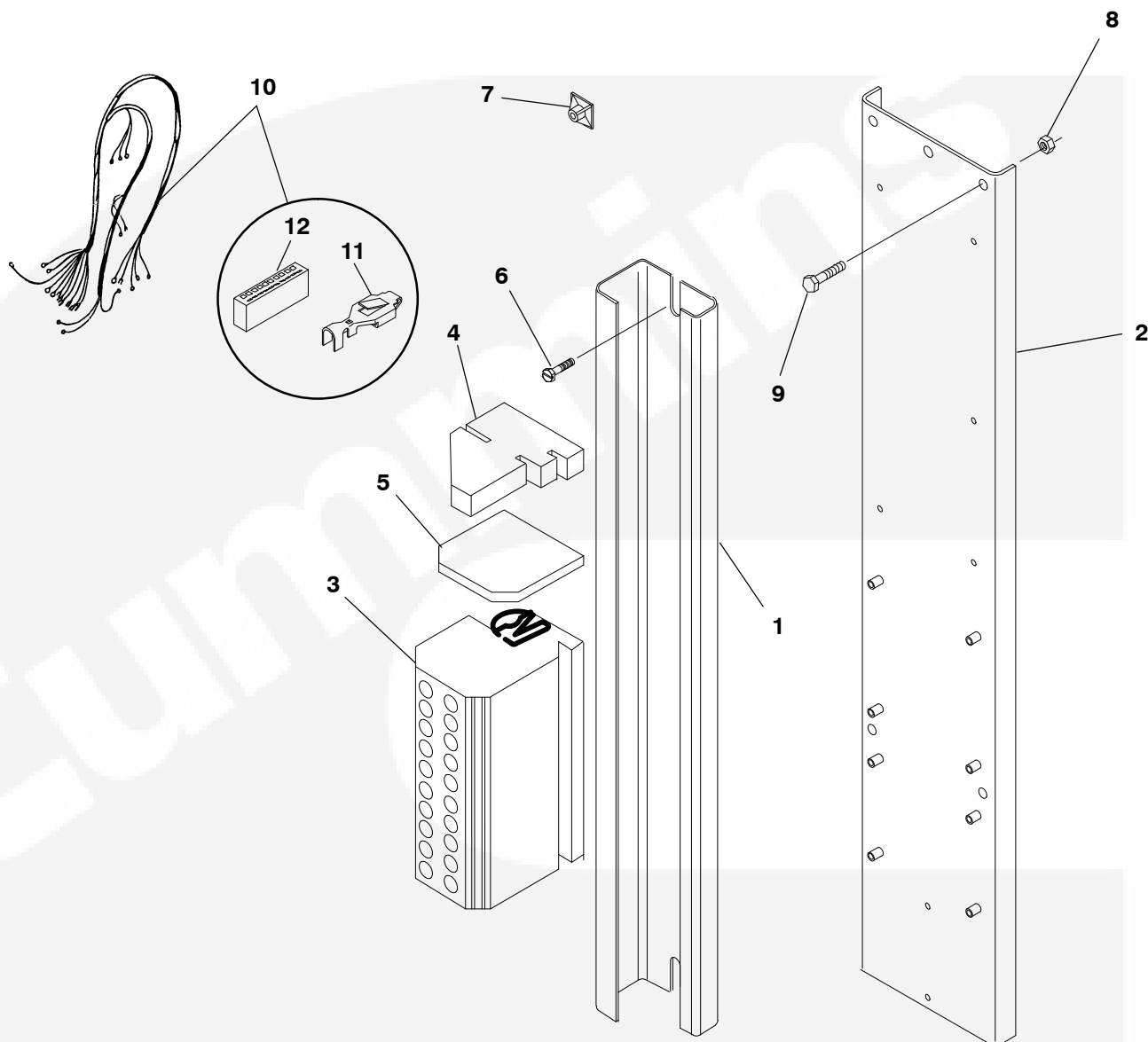


Battery Charger **15/12 Amp, 12/24 Volt**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-5878-13	1	120, 208, 240V				
	300-5878-15	1	380V				
	300-5878-16	1	416V				
	300-5878-17	1	480V				

Battery Charger Alarm

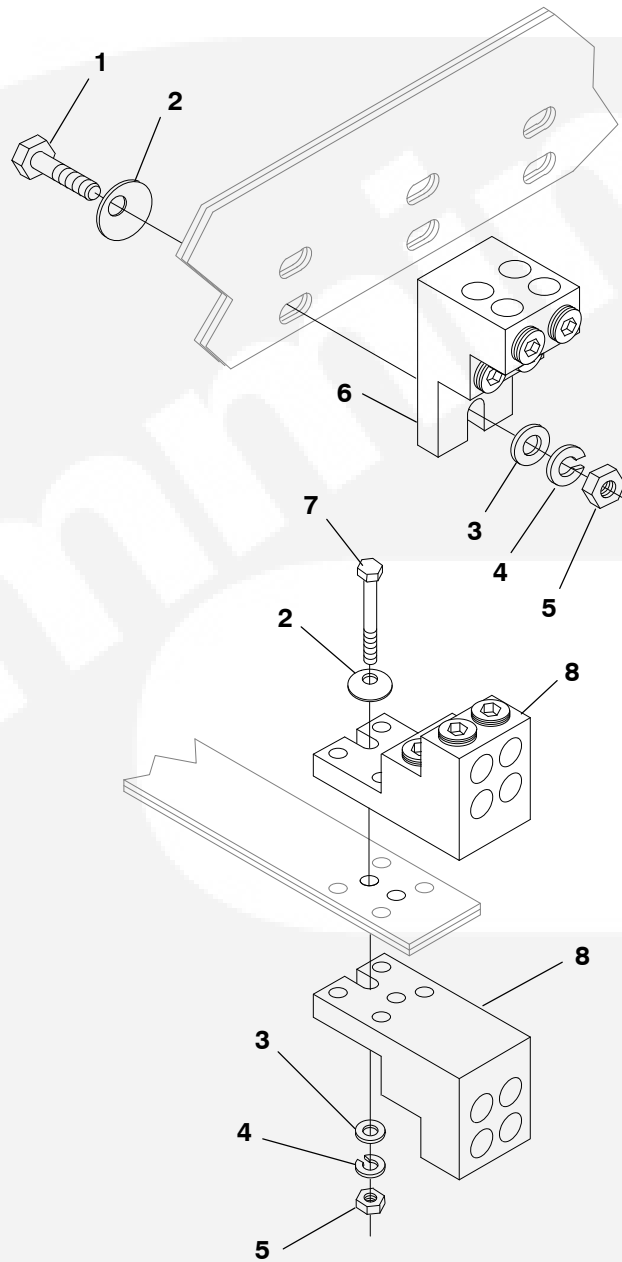


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0792-02	2	Screw, Pan Head (M4 x 8)
7	332-2420	2	Mount, Cable Tie
8	870-0212	4	Nut, Self-Locking (1/4-20)
9	800-0005	4	Screw, Cap - Hex Head (1/4-20 x .75)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10			Harness, Alarm (Includes Parts Marked *)
	338-2349	1	Type 1 Cabinet and Open Construction
	338-2350	1	Type 3R and 12 Cabinets
11	323-1302	9	* Pin, Contact (J2)
12	323-1374-10	1	* Housing, Connector (10 Pin) (J2)

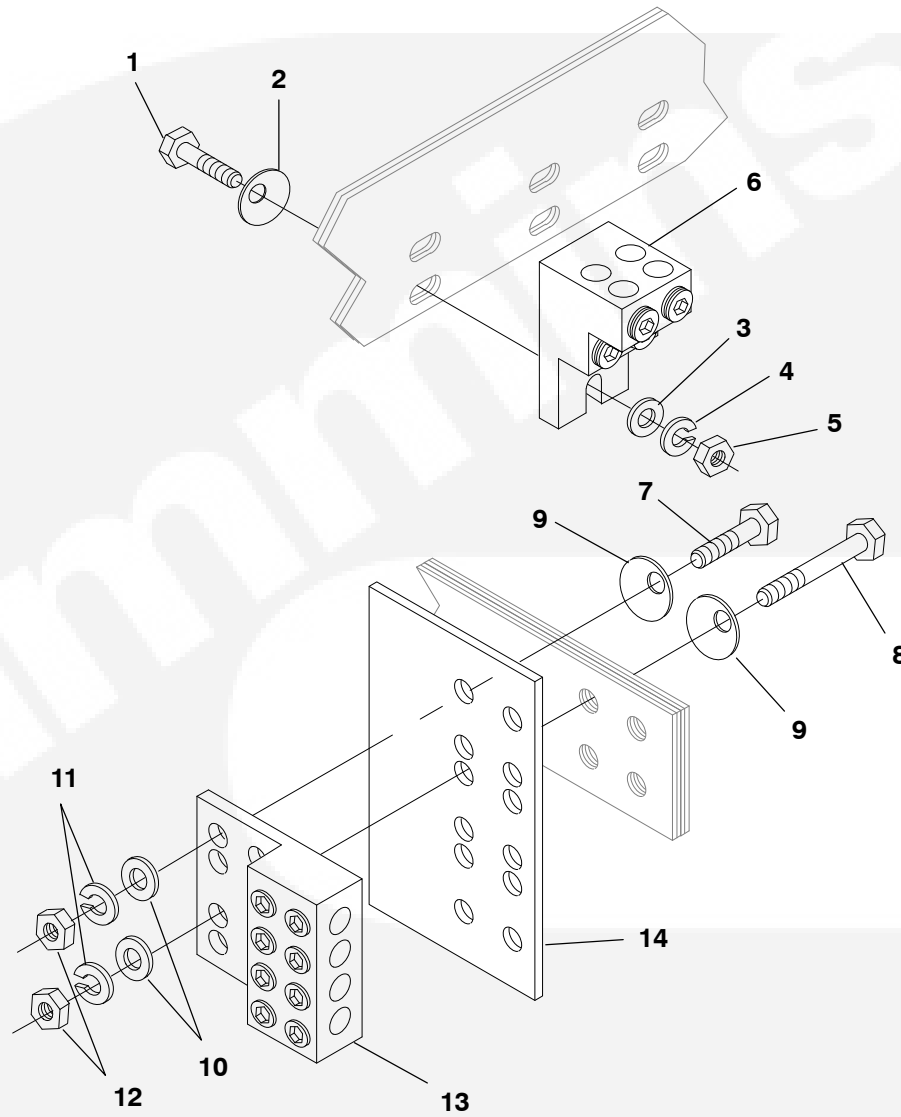
* - Parts Included in 338-2349 and 338-2350 Wiring Harness

Lugs **1600/2000 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0056	12	Screw, Cap – Hex Head (3/8-16 x 2-1/2) – 3 Pole	7			Screw, Cap – Hex Head (3/8-16 x 3)
2	851-0022	48	Washer, Spring (3/8)		800-0058-01	36	3 Pole
3	526-0030	48	Washer, Flat (3/8)		800-0058-01	48	4 Pole
4	850-0050	48	Washer, Lock (3/8)	8			Lug, Modified
5	862-0003	48	Nut, Hex (3/8-16)		332-2995	18	3 Pole
6	332-1557	6	Lug, Neutral – 3 Pole		332-2995	24	4 Pole

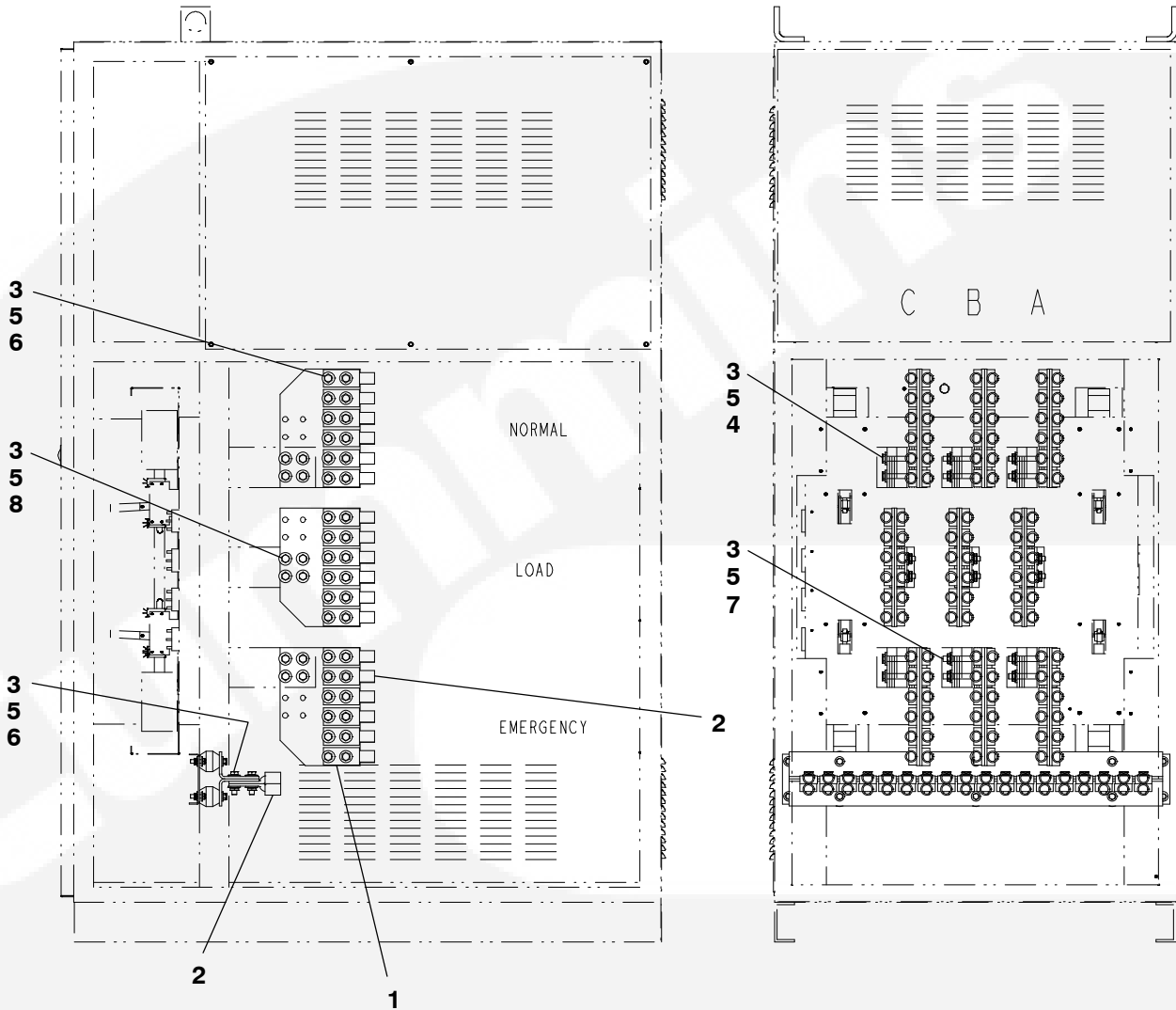
Lugs 3000 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0056	12	*Screw, Cap – Hex Head (3/8-16 x 2-1/2)		851-0023	72	4 Pole
2	851-0022	12	*Washer, Spring (3/8)	10	526-0219	60	Washer, Flat (1/2) 3 Pole
3	526-0030	12	*Washer, Flat (3/8)		526-0219	72	4 Pole
4	850-0050	12	*Washer, Lock (3/8)	11			Washer, Lock (1/2)
5	862-0003	12	*Nut, Hex (3/8-16)		850-0060	60	3 Pole
6	332-1557	6	*Lug, Neutral		850-0060	72	4 Pole
7	800-0094	24	Screw, Cap – Hex Head (1/2-13 x 1-3/4)	12			Nut, Hex (1/2-13) 3 Pole
8			Screw, Cap – Hex Head (1/2-13 x 3)		862-0016	60	4 Pole
	800-0098	36	3 Pole	13	332-2998	4	Lug, Modified
	800-0098	48	4 Pole	14	337-2441	12	Bus, Adapter – Lug
9			Washer, Spring (1/2) 3 Pole				
	851-0023	60	3 Pole				

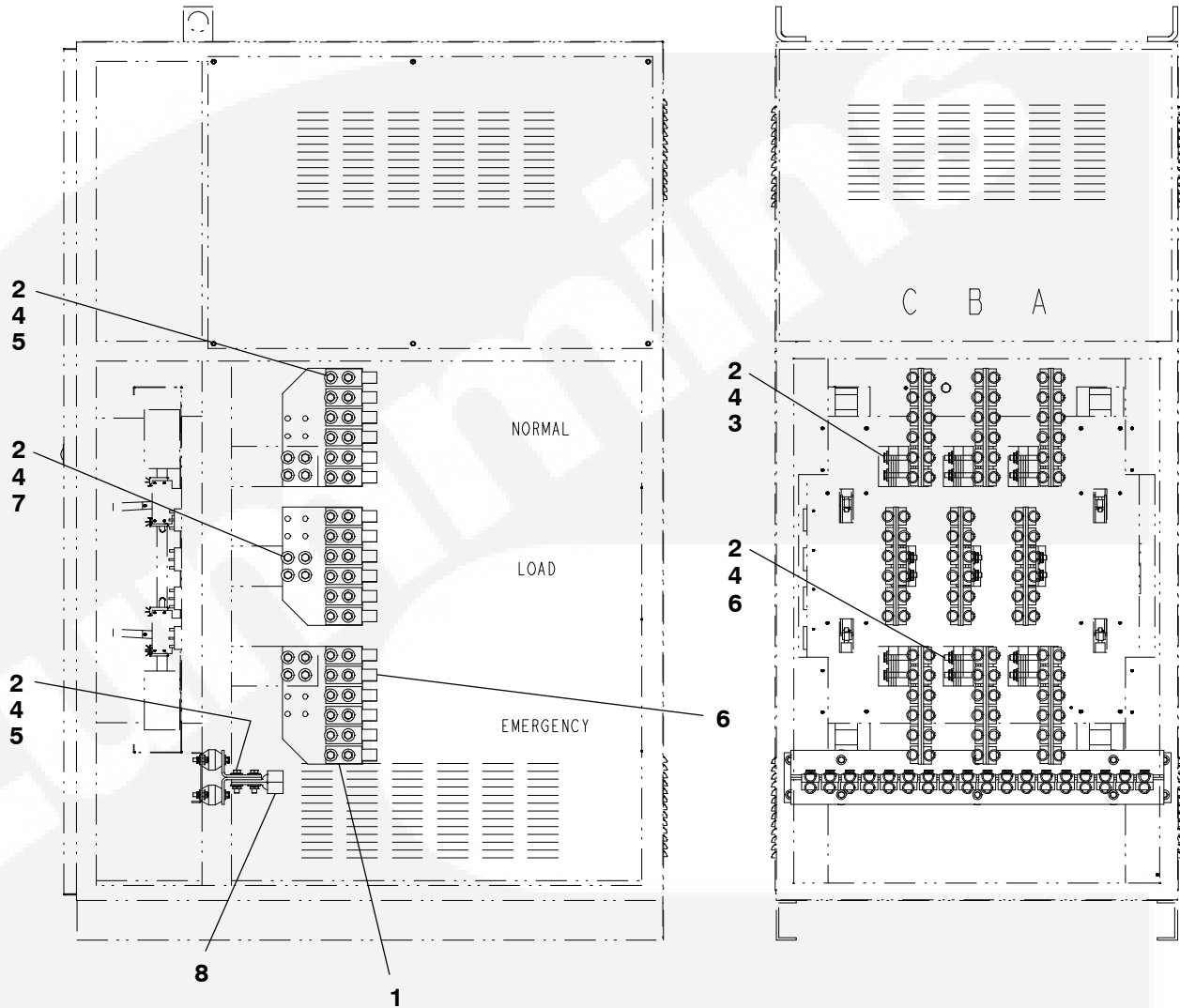
* – 3 Pole Only

Lugs – Compression – 600 MCM 4000 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Busbar	5			Nut, Hex Jam
	337-4062	18	3 Pole		862-0016	188	3 Pole
	337-4062	24	4 Pole		862-0016	208	4 Pole
2	332-4363	144	Lug, Cable	6	800-0094	144	Screw, Hex Head
3			Washer	7			Rod, Threaded
	851-0023	360	3 Pole		042-0019	8	3 Pole
	851-0023	384	4 Pole		042-0019	16	4 Pole
4	800-0104	16	Screw, Hex Head	8			Screw, Hex Head
					800-0096	12	3 Pole
					800-0096	16	4 Pole

**Lugs – Compression – 750 MCM
4000 Amp**



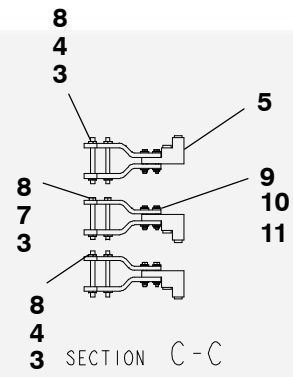
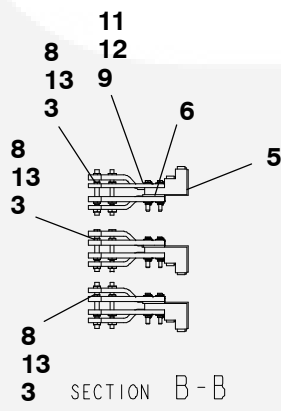
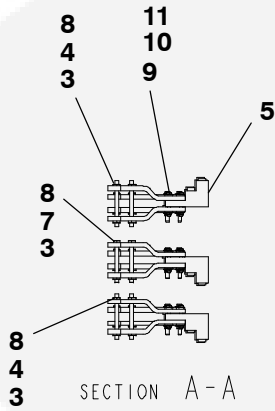
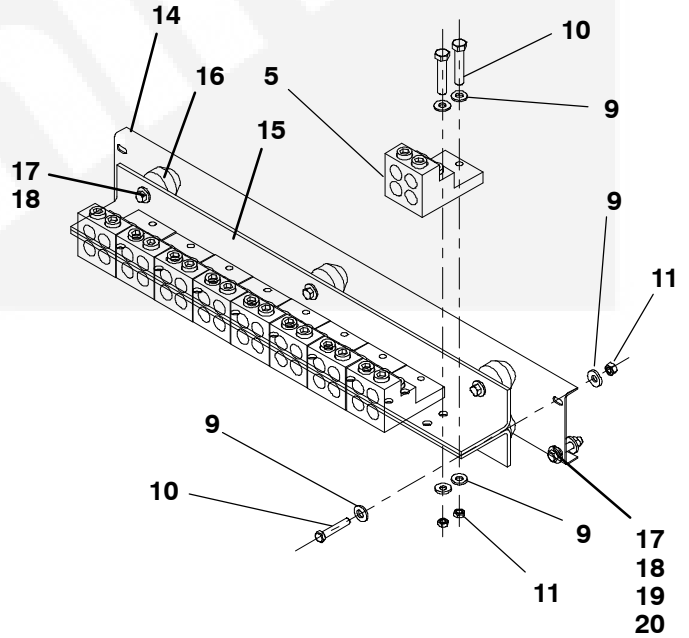
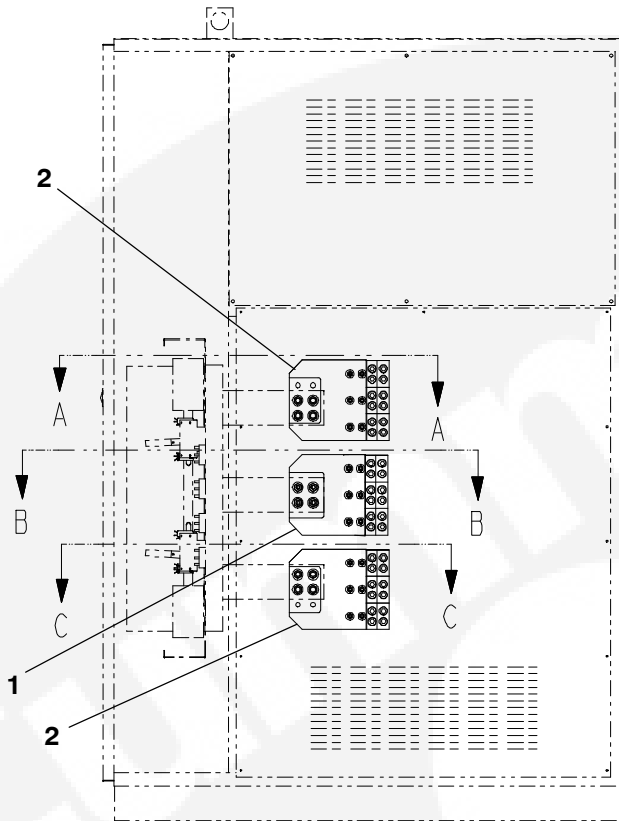
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Busbar
	337-4062	18	3 Pole
	337-4062	24	4 Pole
2			Washer
	851-0023	360	3 Pole
	851-0023	384	4 Pole
3	800-0104	16	Screw, Hex Head
4			Nut, Hex Jam
	862-0016	188	3 Pole
	862-0016	208	4 Pole

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	800-0094	144	Screw, Hex Head
6			Rod, Threaded
	042-0019	8	3 Pole
	042-0019	16	4 Pole
7			Screw, Hex Head
	800-0096	12	3 Pole
	800-0096	16	4 Pole
8	332-4364	144	Lug, Cable

“Intentionally Left Blank”



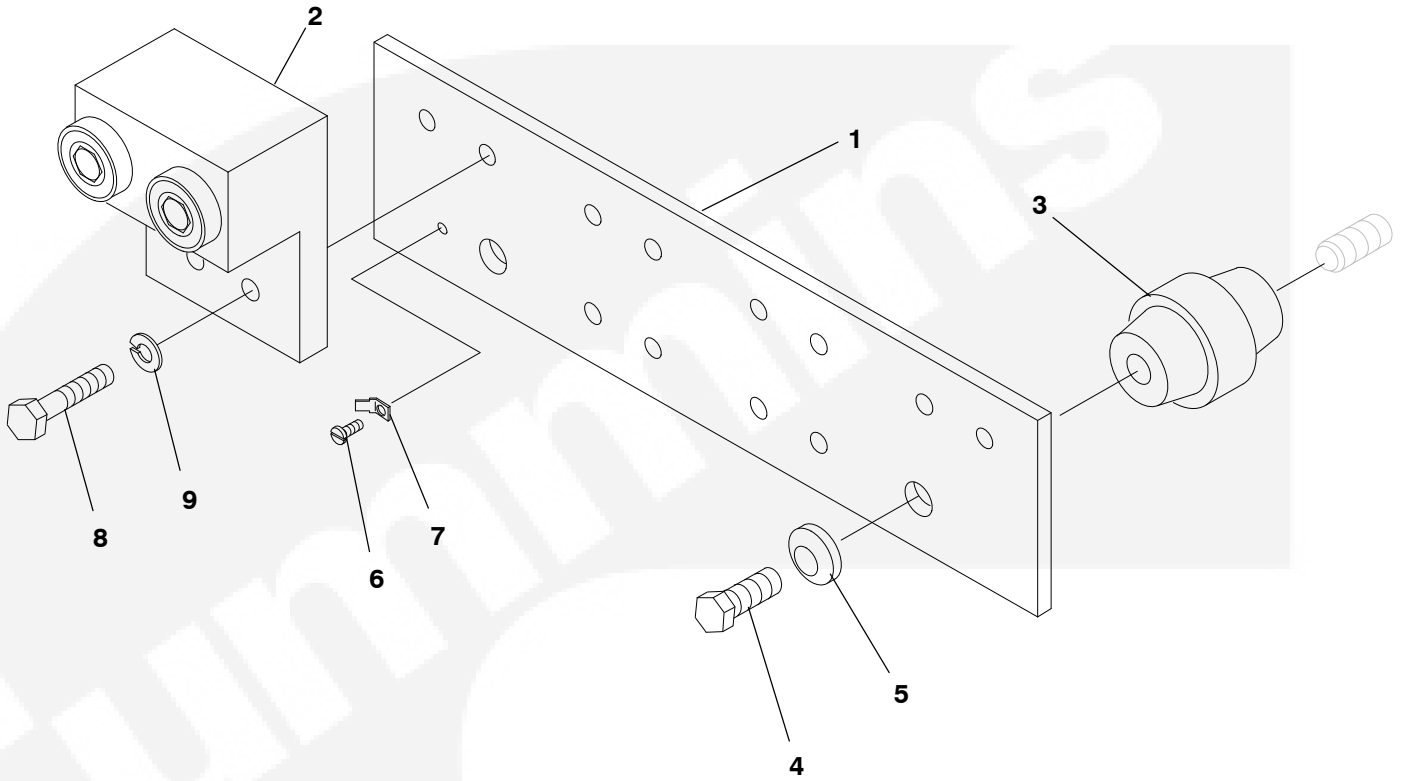
Lugs – Mechanical – 750 MCM 4000 Amp



**Lugs – Mechanical – 750 MCM
4000 Amp**

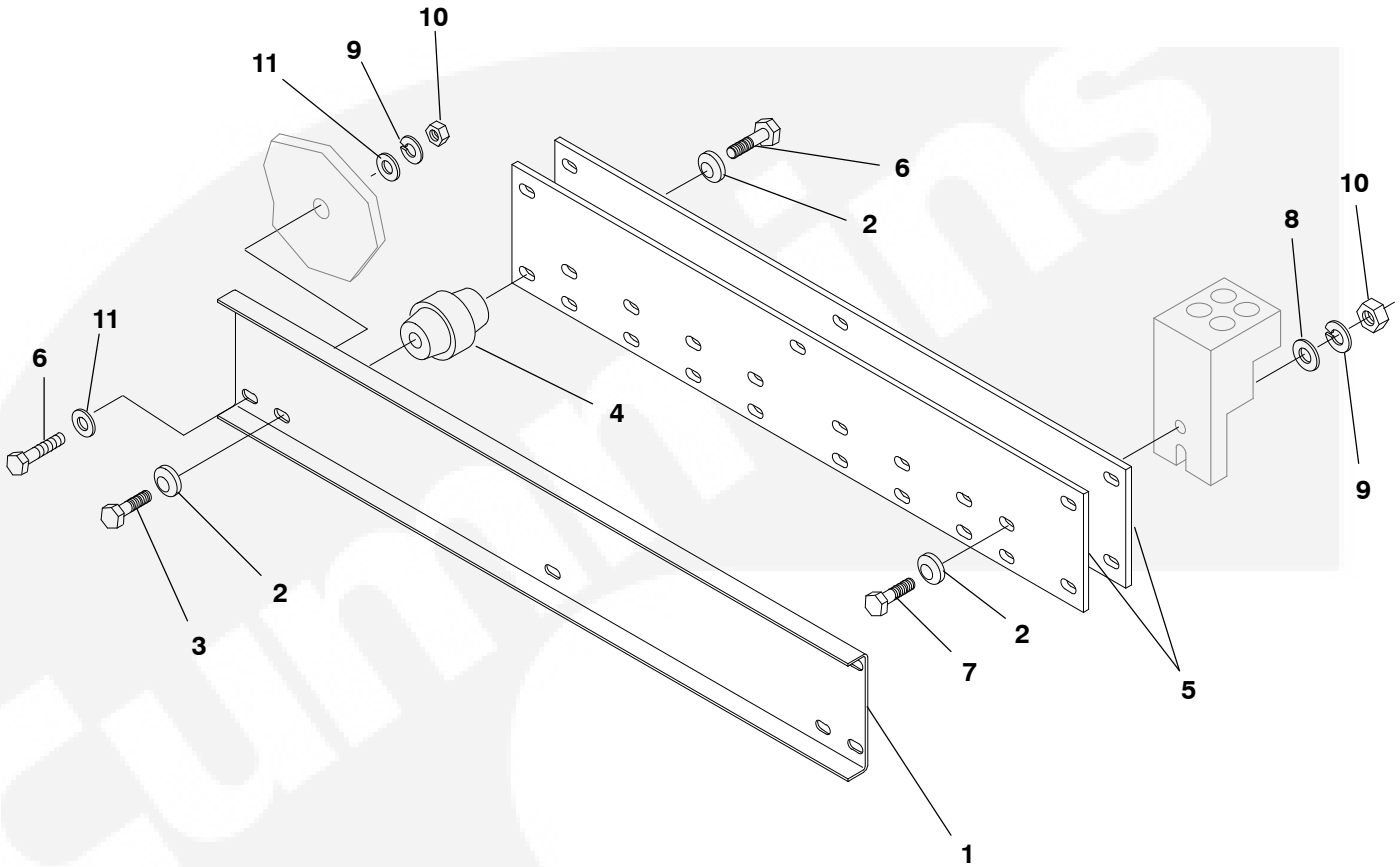
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Busbar – Lug	10			Screw, Cap – Hex Head (3/8–16 x 2.50)
	337–4035	6	3 Pole		800–0056	58	3 Pole
	337–4035	8	4 Pole		800–0056	48	4 Pole
2			Busbar – Lug	11			Nut, Hex – Jam (3/8–16)
	337–4036	12	3 Pole		864–0003	76	3 Pole
	337–4036	16	4 Pole		864–0003	72	4 Pole
3			Washer, Spring (1/2)	12			Screw, Cap – Hex Head (3/8–16 x 3.25)
	851–0023	72	3 Pole				3 Pole
	851–0023	96	4 Pole				4 Pole
4	042–0019	16	Rod, Threaded (1/2–13 x 5.25)		800–0059	54	3 Pole
5	332–3036	36	Lug		800–0059	24	4 Pole
6			Spacer, Busbar	13			Screw, Cap – Hex Head (1/2–13 x 2.25)
	337–4063	3	3 Pole		800–0095	9	3 Pole
	337–4063	4	4 Pole		800–0095	13	4 Pole
7			Screw, Cap – Hex Head (1/2–13 x 4.5)	14	319–7273–04	1	Channel, Support – 3 Pole
	800–0104	8	3 Pole	15	337–3983	2	Busbar – Neutral – 3 Pole
	800–0104	16	4 Pole	16	332–2512	6	Standoff – Insulator – 3 Pole
8			Nut, Hex – Jam (1/2–13)	17	851–0022	20	Washer, Spring (3/8) – 3 Pole
	864–0005	52	3 Pole	18	800–0048	12	Screw, Cap – Hex Head (3/8–16 x .75) – 3 Pole
	864–0005	64	4 Pole				Screw, Cap – Hex Head (3/8–16 x 1.25) – 3 Pole
9			Washer (3/8)	19	800–0051	4	Nut, Hex – Jam (3/8–16) – 3 Pole
	851–0022	152	3 Pole	20	864–0003	4	
	851–0022	144	4 Pole				

**Neutral Bar Assembly
3 Pole
1200 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2956-01	1	Bar, Neutral	6	815-0285	1	Screw, Machine – Round Head – W/ET (#8-32 x 5/8)
2	332-3106	6	Lug, Solderless	7	332-2834	1	Tab, Terminal (.25)
3	332-2512	2	Standoff, Insulator	8	800-0008	12	Screw, Pan Head (1/4-20 x 5/8)
4	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1.00)	9	850-0039	12	Washer, Lock (1/4)
5	851-0022	2	Spring, Disc – Conical (3/8)				

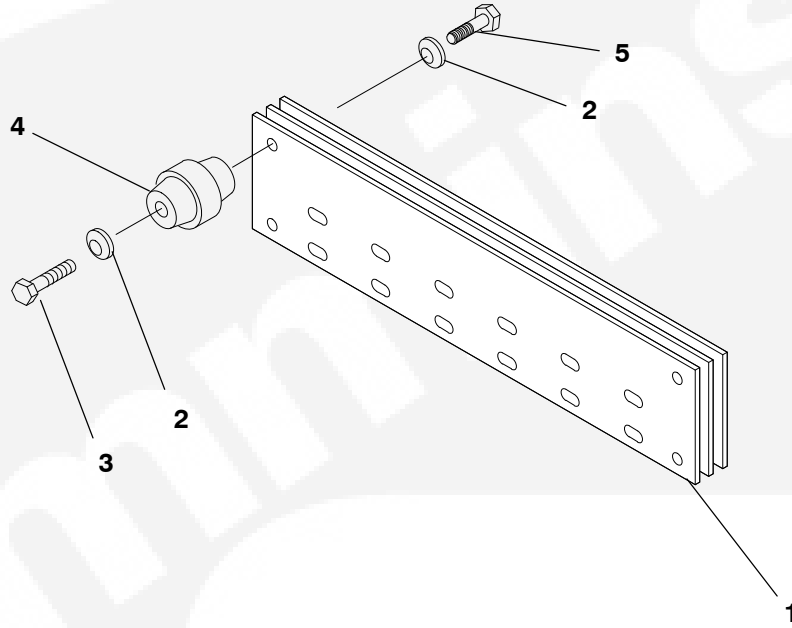
Neutral Bar Assembly
3 Pole
1600/2000/3000 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0707	1	Channel, Bus Support
2	851-0022	22	Washer, Conical
3	800-0048	5	Screw, Cap – Hex Head (3/8–16 x 3/4)
4	332-2512	5	Standoff, Insulator Bus, Neutral
5	337-2439	2	1600/2000 Amp
	337-2439	3	3000 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Screw, Cap – Hex Head 1600/2000 Amp (3/8–16 x 1.00)
	800-0050	5	
	800-0051	7	3000 Amp (3/8–16 x 1.25)
7	800-0056	12	Screw, Cap – Hex Head (3/8–16 x 2-1/2)
8	526-0030	12	Washer, Flat (3/8)
9	850-0050	14	Washer, Lock (3/8)
10	862-0003	14	Nut, Hex (3/8)
11	526-0029	4	Washer, Flat (3/8)

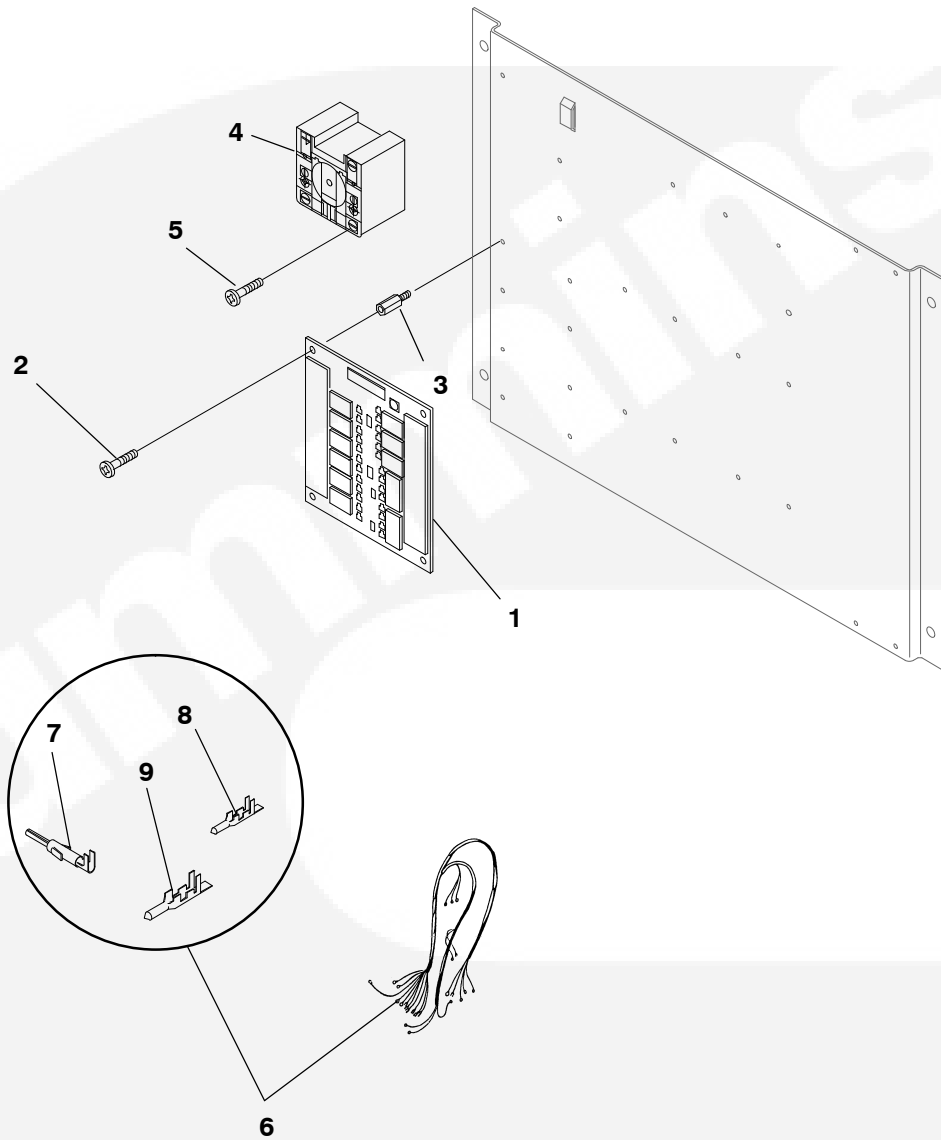
**Neutral Bar Assembly
3 Pole
4000 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2596	3	Bus, Neutral
2	851-0022	4	Washer, Conical
3	800-0048	4	Screw, Cap – Hex Head (3/8-16 x 3/4)
4	332-2512	4	Standoff, Insulator

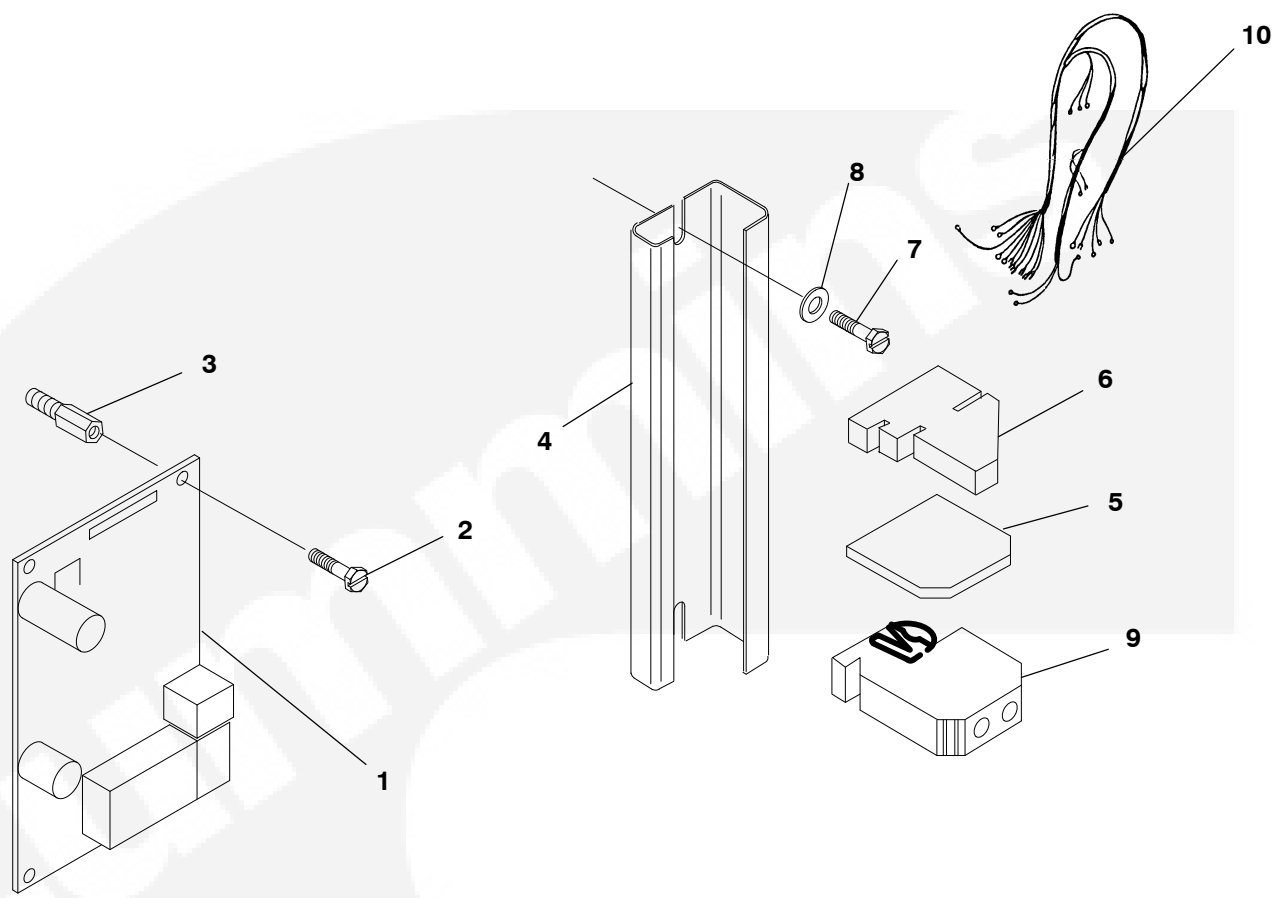
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	800-0051		Screw, Cap – Hex Head (3/8-16 x 1.25)

Load Shed



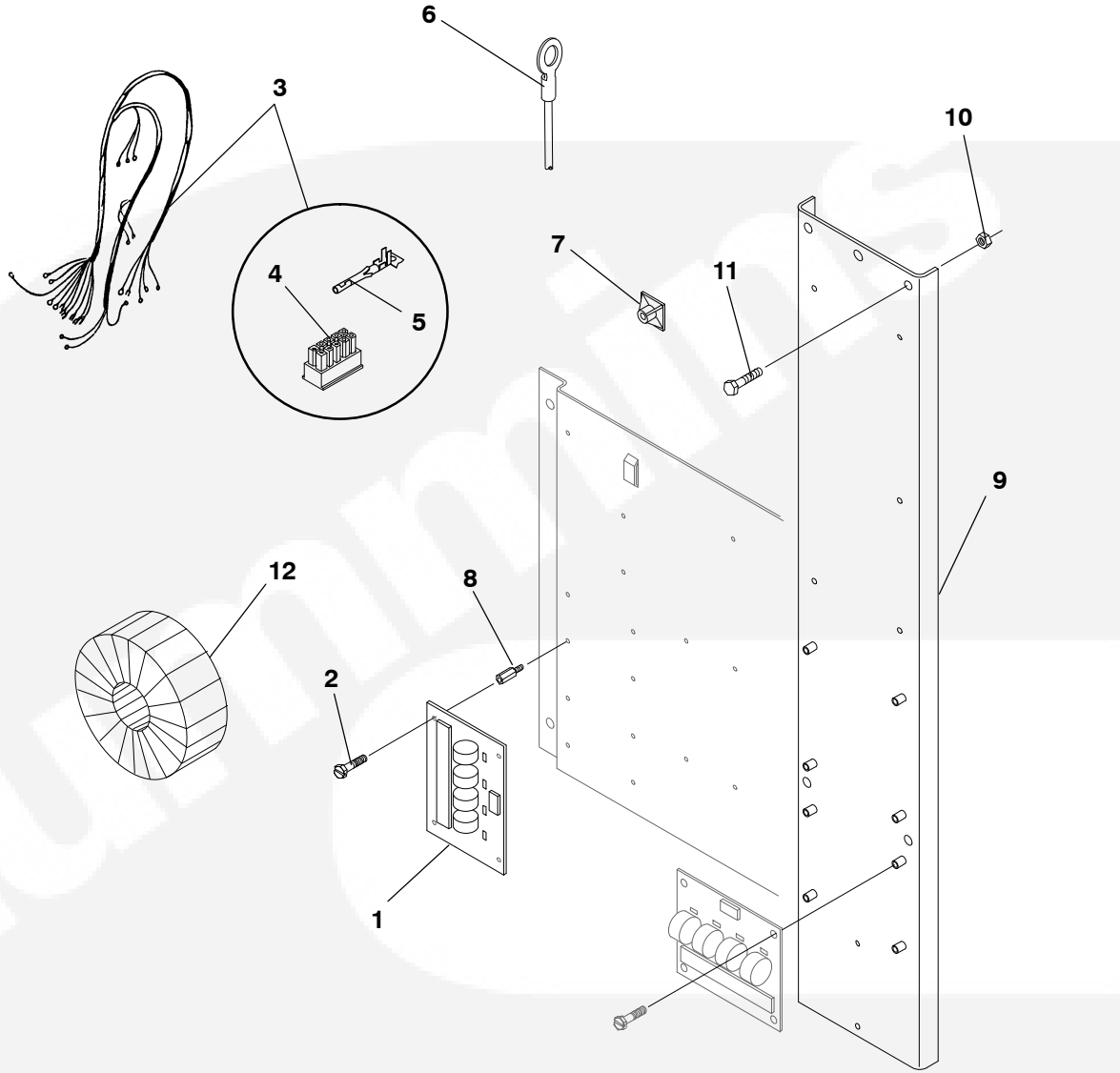
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5152	1	Board, Printed Circuit – Relay Module	6	338-3890	1	Harness, Wiring – Plate (Includes Parts Marked *)
2	815-0959-03	4	Screw, Pan Head – Cross Recessed (M3 x 8)	7	332-3606	1	* Pin, Contact (J12)
3	870-2213-02	4	Standoff, Hex Threaded (M3 x 12)	8	323-1858	1	* Pin, Contact (J20)
4	307-2928	1	Relay, Power (K6)	9	323-1859	1	* Socket, Contact (P20)
5	815-0792-05	2	Screw, Pan Head – Cross Recessed (M4 x .07 x 16)				* – Parts Included in 338-3890 Wiring Harness

Network Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1542	1	Board, Printed Circuit – Network Module	6	332-2839	2	Bracket, End – Terminal
2	815-0959-03	4	Screw, Pan Head (M3 x 0.5 x 8)	7	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)
3	870-2213-02	4	Standoff, Hex Thread (M3)	8	526-0003	2	Washer, Flat
4	332-2837-09	1	Rail, Terminal Block	9	332-2836-01	2	Block, Terminal (Sectional)
5	332-2841	1	Plate, End – Terminal	10	338-3886	1	Harness, Network

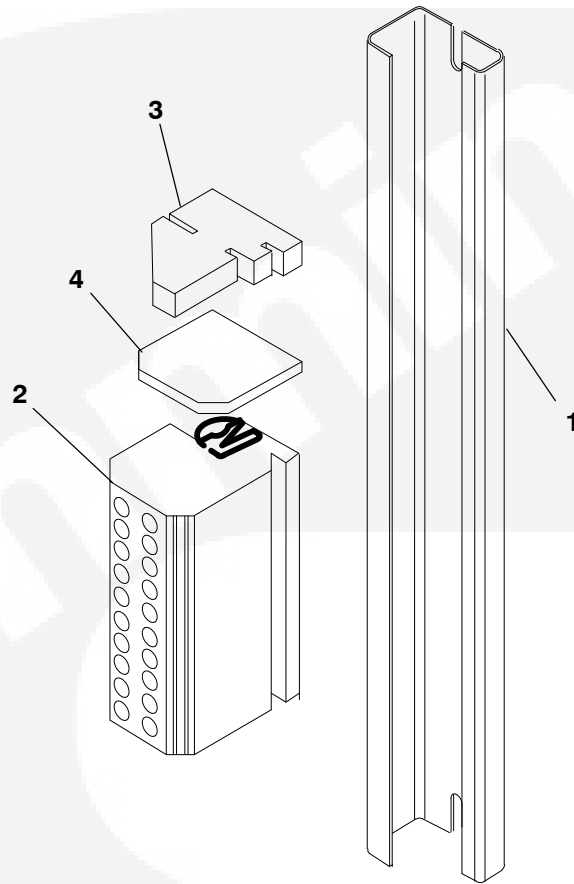
Current Transformer Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5254	1	Board, Printed Circuit - Current Module	11	800-0005	4	Screw, Cap - Hex Head - Open Construction and Type 1 Cabinet
2	815-0959-03	4	Screw, Pan Head (M3 x 8)	12			Transformer, Current
3	338-3884-01	1	Harness, Current Module (Includes Parts Marked *)				1200 Amp
4	323-1806-05	2	* Connector, Receptacle (10 Pin)		302-1820-13	3	1 Phase, 2 or 3 Wire
5	332-3606	20	* Socket, Contact		302-1820-13	4	3 Phase, 3 or 4 Wire
6			Lead				1600 Amp
	226-4794-03	1	15" (Marked J40-14, GND)		302-1820-15	3	1 Phase, 2 or 3 Wire
	226-4794-04	4	3" (No Markings)		302-1820-15	4	3 Phase, 3 or 4 Wire
7	332-2420	2	Mount, Cable Tie				2000 Amp
8	870-2213-02	4	Standoff, Hex Threaded (M3 x 12) - Type 3R and 4 Cabinet		302-1820-16	3	1 Phase, 2 or 3 Wire
9	319-3943-01	1	Plate, Mounting - Open Construction and Type 1 Cabinet		302-1820-16	4	3 Phase, 3 or 4 Wire
10	870-0212	4	Nut, Self-Locking (1/4-20) Open Construction and Type 1 Cabinet				3000 Amp
					302-1830-06	3	1 Phase, 2 or 3 Wire
					302-1830-06	4	3 Phase, 3 or 4 Wire

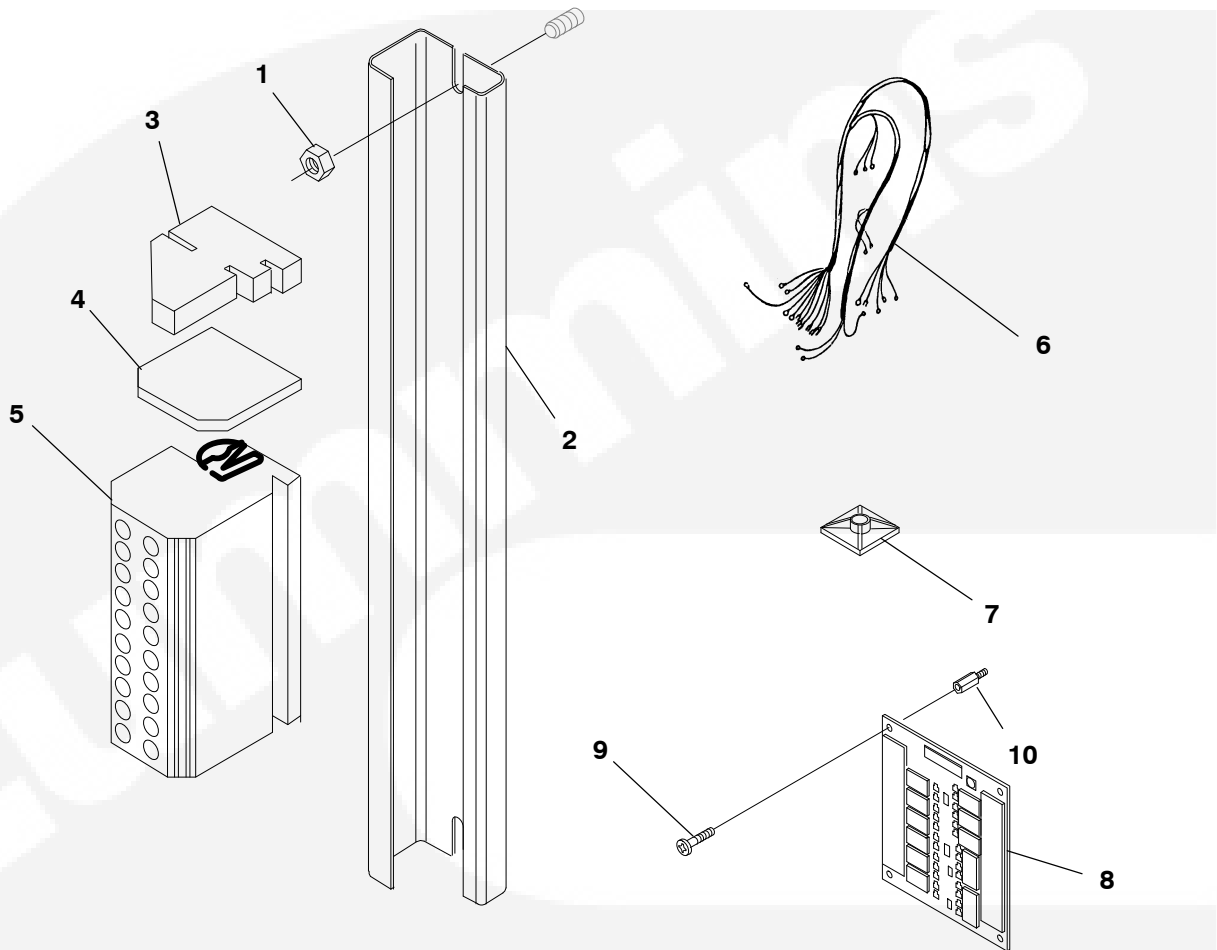
* - Parts Included in 338-3884-01 Wiring Harness

Terminal Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block	3	332-2839	2	Bracket, End - Terminal
2	332-2836-02	3	Block, Terminal (Sectional)	4	332-2841	1	Plate, End - Terminal

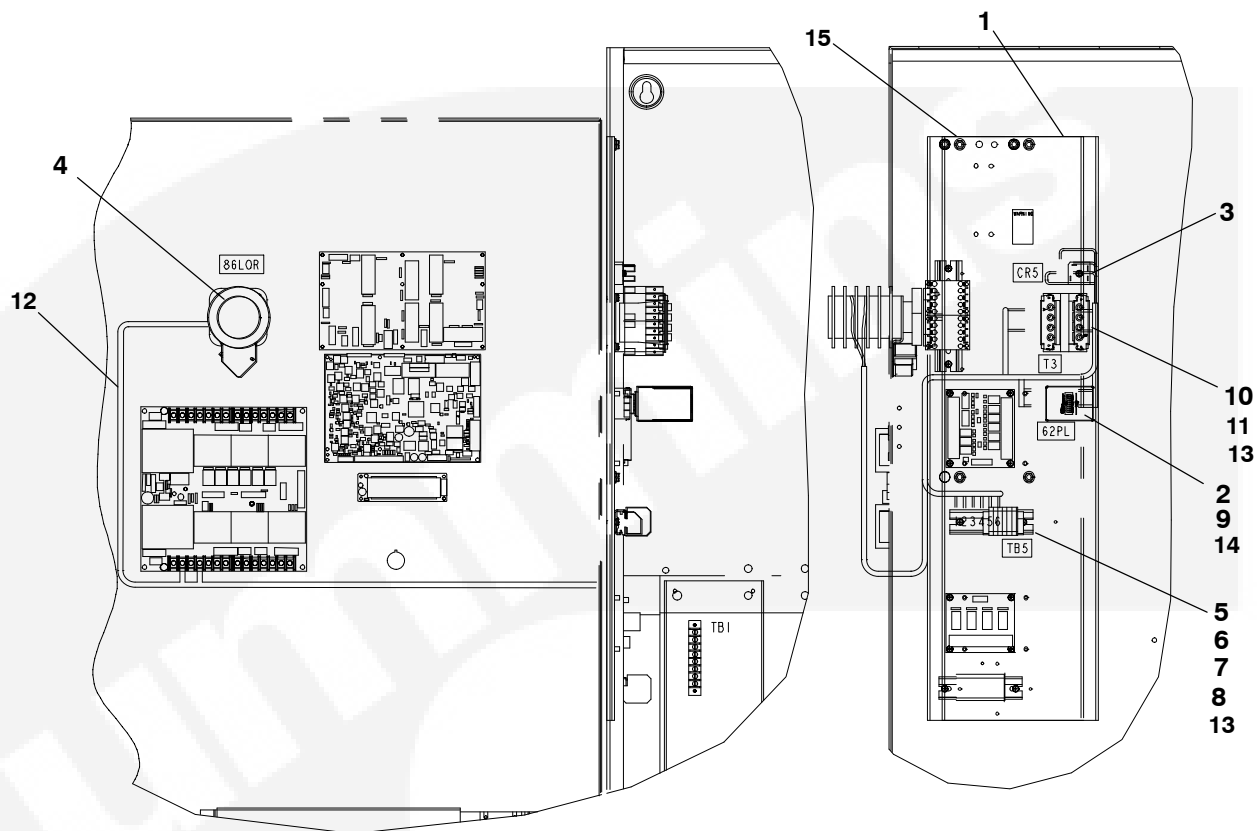
Relay Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	860-2005	2	Nut, Hex (M4 x 0.7)
2	332-2837-09	1	Rail, Terminal Block
3	332-2839	2	Bracket, End - Terminal
4	332-2841	1	Plate, End - Terminal
5	332-2836-02	3	Block, Terminal (Sectional)
6	338-3891	1	Harness, Wiring - Relay
7	332-2420	2	Mount, Cable Tie

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	300-5152	1	Board, Printed Circuit - Relay Module
9	815-0959-03	4	Screw, Pan Head - Cross Recessed (M3 x 8)
10	870-2213-02	4	Standoff, Hex Threaded (M3 x 12)

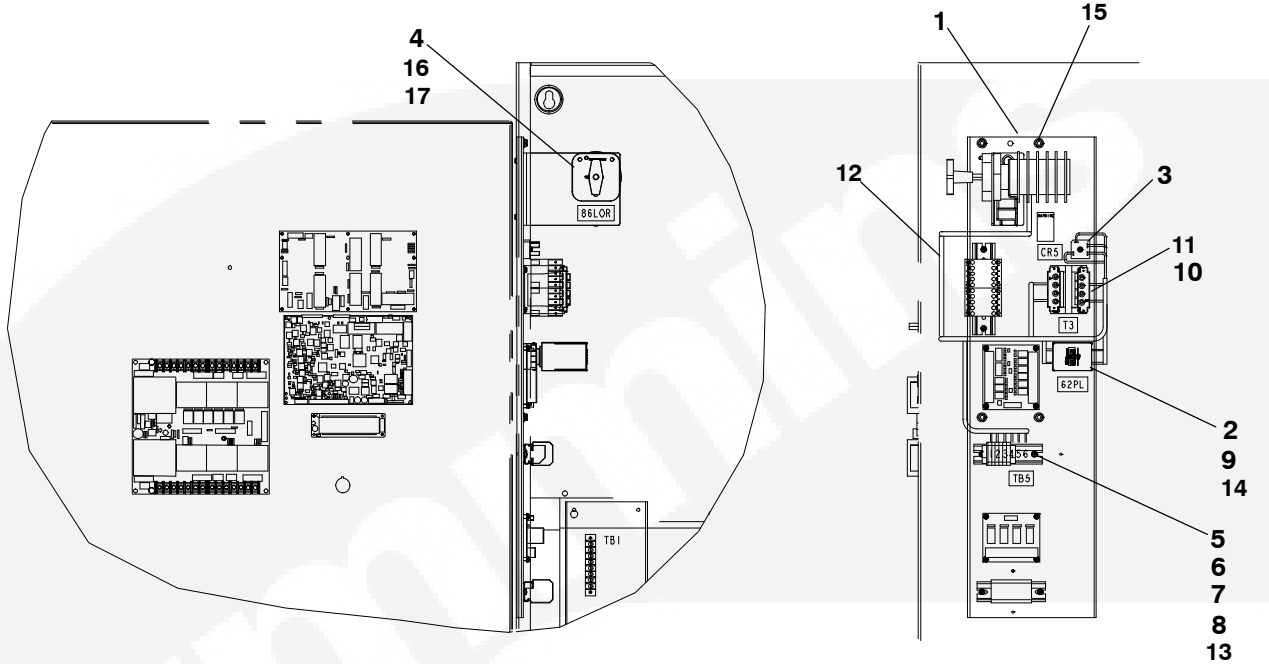
Relay Installation



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR OTPC 1200 FAMILY NEMA 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6745-01	1	Plate Assy	10	315-0839	1	Cover, Protection
2	307-3136	1	Base, Relay	11			Transformer, Power
3	305-0653	1	Rectifier-BRDG (35A)		315-0693-02	1	(25VA, 208V, 240V, 480V)
4	307-2981-02	1	Relay, Lockout		315-0693-03	1	(25VA, 347V, 380V, 416V)
5	332-2837-11	1	Rail, Terminal		315-0693-04	1	(25VA, 600V)
6	332-2839	2	Bracket, End	12	338-4983	1	Harness, Relay
7	332-2841	1	Plate, End	13	815-0446	7	Screw (#8-32 x .50)
8	332-2836-01	6	Terminal, Section Block	14	815-0447	2	Screw (#8-32 x .75)
9	307-3135	1	Relay, Timer	15	870-0212	4	Nut (1/4-20)

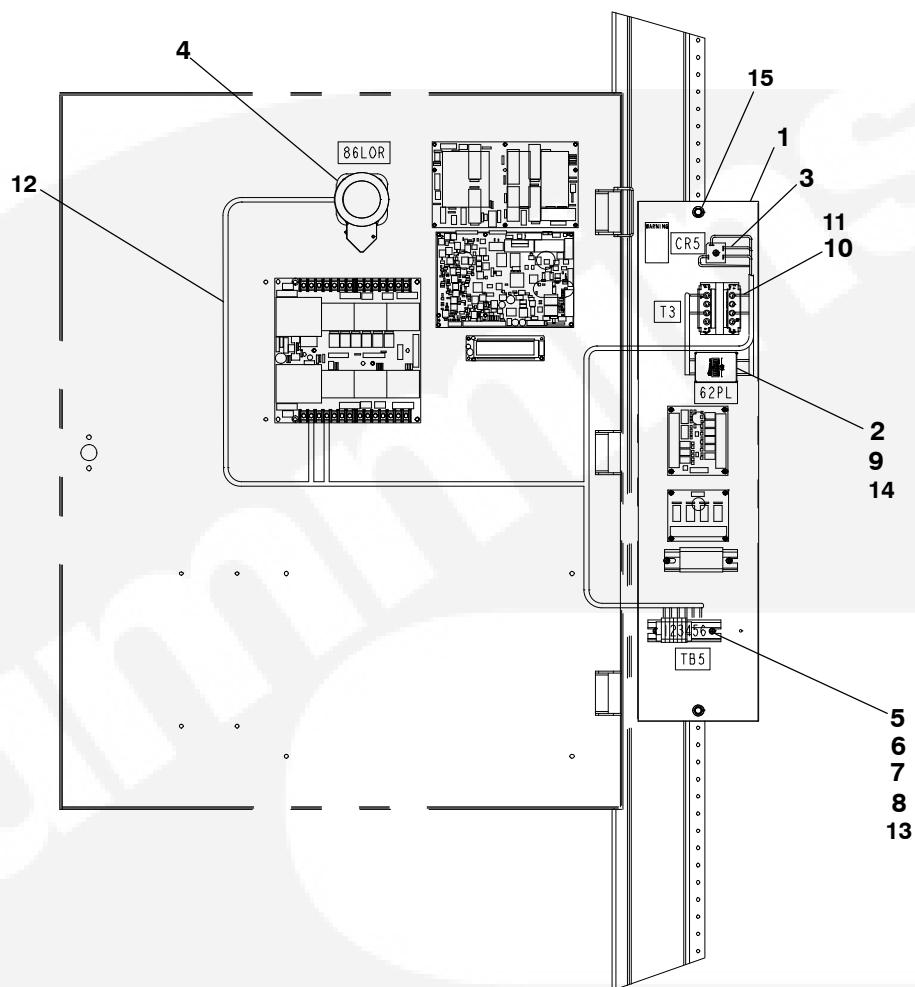
Relay Installation



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR OTPC 1200 FAMILY NEMA 3R, 4, 4X, 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6745-01	1	Plate Assy	11			Transformer, Power
2	307-3136	1	Base, Relay		315-0693-02	1	(25VA, 208V, 240V, 480V)
3	305-0653	1	Rectifier-BRDG (35A)		315-0693-03	1	(25VA, 347V, 380V, 416V)
4	307-2981-02	1	Relay, Lockout		315-0693-04	1	(25VA, 600V)
5	332-2837-11	1	Rail, Terminal	12	338-4984	1	Harness, Relay
6	332-2839	2	Bracket, End	13	815-0446	7	Screw (#8-32 x .50)
7	332-2841	1	Plate, End	14	815-0447	2	Screw (#8-32 x .75)
8	332-2836-01	6	Terminal, Section Block	15	870-0212	4	Nut (1/4-20)
9	307-3135	1	Relay, Timer	16	307-3126	1	Bracket, Relay
10	315-0839	1	Cover, Protection	17	821-2054	2	Screw (M8x1.25x16)

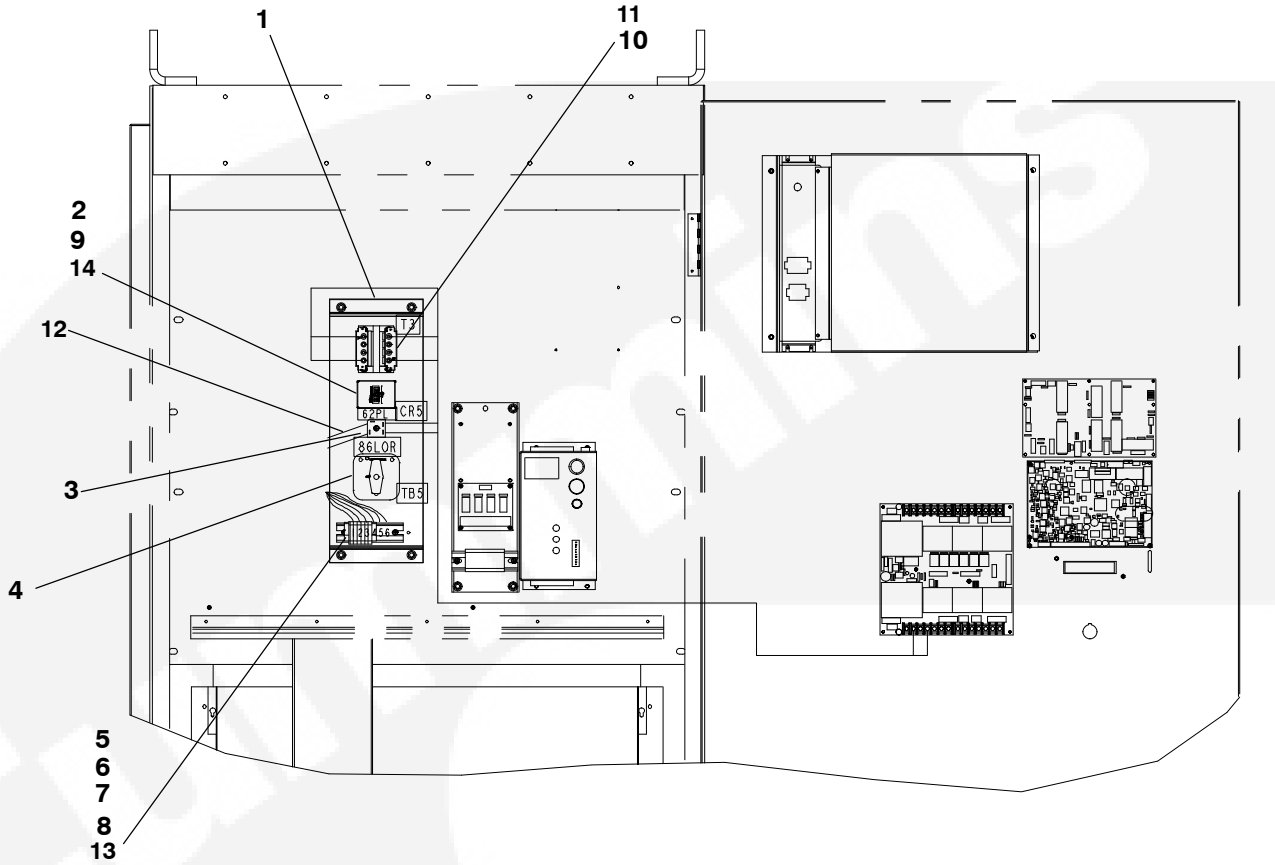
Relay Installation



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR OTPC 1600-3000 FAMILY NEMA I

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6747-01	1	Plate Assy	10	315-0839	1	Cover, Protection
2	307-3136	1	Base, Relay	11			Transformer, Power
3	305-0653	1	Rectifier-BRDG (35A)		315-0693-02	1	(25VA, 208V, 240V, 480V)
4	307-2981-02	1	Relay, Lockout		315-0693-03	1	(25VA, 347V, 380V, 416V)
5	332-2837-11	1	Rail, Terminal		315-0693-04	1	(25VA, 600V)
6	332-2839	2	Bracket, End	12	338-4983	1	Harness, Relay
7	332-2841	1	Plate, End	13	815-0446	7	Screw (#8-32 x .50)
8	332-2836-01	6	Terminal, Section Block	14	815-0447	2	Screw (#8-32 x .75)
9	307-3135	1	Relay, Timer	15	815-0261	2	Screw (1/4-20 x .50)

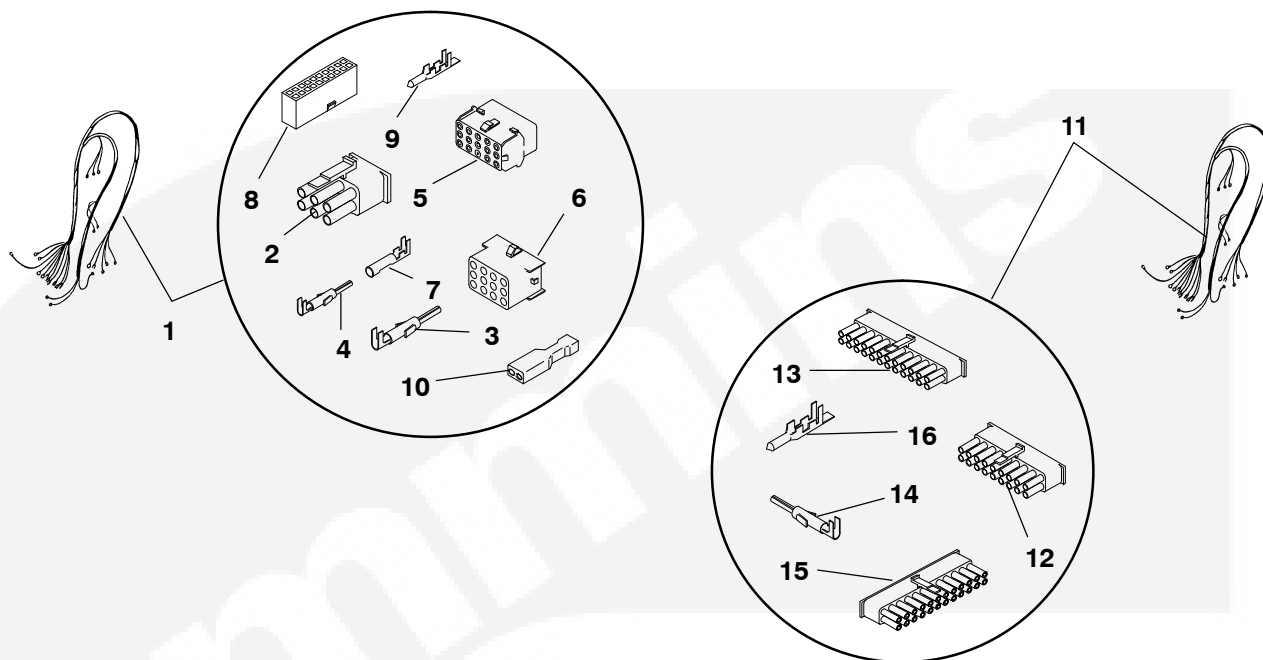
Relay Installation



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR OTPC 1600-3000 FAMILY NEMA 3R, 4, 4X, 12
OTPC 4000 NEMA 1, 3R

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6746	1	Plate Assy	10	315-0839	1	Cover, Protection
2	307-3136	1	Base, Relay	11			Transformer, Power
3	305-0653	1	Rectifier-BRDG (35A)		315-0693-02	1	(25VA, 208V, 240V, 480V)
4	307-2981-02	1	Relay, Lockout		315-0693-03	1	(25VA, 347V, 380V, 416V)
5	332-2837-11	1	Rail, Terminal		315-0693-04	1	(25VA, 600V)
6	332-2839	2	Bracket, End	12	338-4985	1	Harness, Relay
7	332-2841	1	Plate, End	13	815-0446	7	Screw (#8-32 x .50)
8	332-2836-01	6	Terminal, Section Block	14	815-0447	2	Screw (#8-32 x .75)
9	307-3135	1	Relay, Timer				

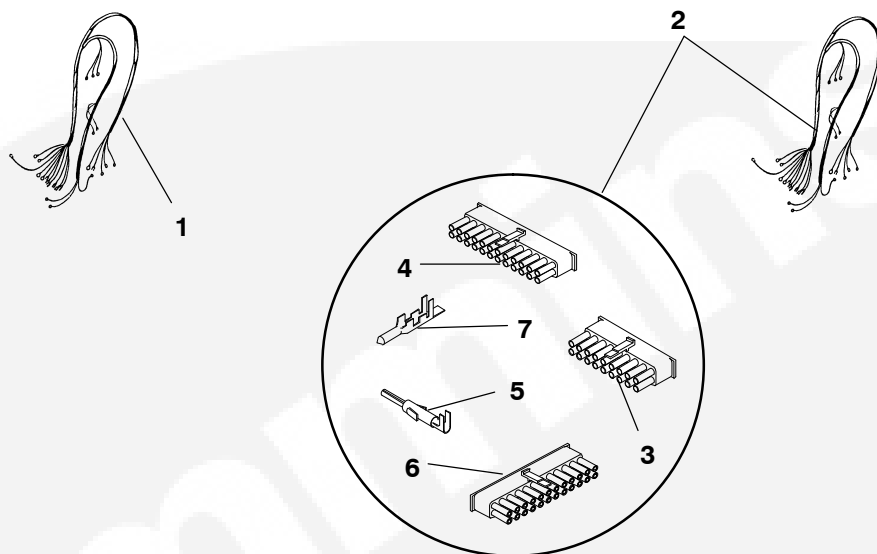
Wiring Harness **OTPCE (Spec A-B), OTPCF (Spec A), OTPCG (Spec A), OTPCH (Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Relay Plate (Includes Parts Marked *)
	338-3877	1	Level 1 Control
	338-3875	1	Level 2 Control
2	323-1317	1	* Plug, Connector (6 Place) (P6)
3	323-1703	1	* Pin, Contact (P6)
4	323-1199	3	* Pin, Contact (P6)
5	323-1253	1	* Cap, Circuit (15 Pin) (J1)
6	323-1315	1	* Cap, Connector (12 Pin) (J2)
7			* Socket, Contact (J1, J2)
	323-1200	26	Level 1 Control
	323-1200	23	Level 2 Control
8	323-1857	1	* Cap, Connector (20 Place) (J2)
9	323-1858	17	* Pin, Contact (J20)
10	332-1993	3	* Socket, Contact

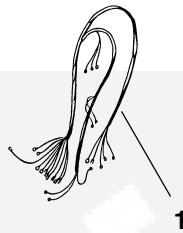
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11			Harness, Wiring – Adapter (Includes Parts Marked #)
	338-3878-01	1	Utility to Generator
	338-3878-03	1	Generator to Generator
12	323-1806-09	1	# Connector, Receptical (18 Pin) (J12)
13	323-1806-12	1	# Connector, Receptical (24 Pin) (J27)
14	332-3606	19	# Pin, Contact (J12, J27)
15	323-1856	1	# Plug, Circuit (20 Place) (P20)
16	323-1859	18	# Socket, Contact (P20)
* – Parts Included in 338-3875 and 338-3877 Wiring Harnesses			
# – Parts Included in 338-3878-01 and 338-3878-03 Wiring Harnesses			

Wiring Harness
OTPCE (Spec C), OTPCF (Spec B), OTPCG (Spec B), OTPCH (Spec B),
OTPCJ (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Relay Plate	2			Harness, Wiring – Adapter (Includes Parts Marked #)
			Level 1 Control				Utility to Generator
	338-4824	1	1200 Amp		338-3878-01	1	Generator to Generator
	338-4825	1	1600-4000 Amp		338-3878-03	1	
	338-4826	1	Open Construction	3	323-1806-09	1	# Connector, Receptical (18 Pin) (J12)
		1	Level 2 Control	4	323-1806-12	1	# Connector, Receptical (24 Pin) (J27)
	338-4827-01	1	1200 Amp, U-G, U-U, Type 3R, 4, 12 and 1600-3000 Amp, U-G, U-U, Type 1	5	332-3606	19	# Pin, Contact (J12, J27)
	338-4827-02	1	1200 Amp, G-G, Type 3R, 4, 12 and 1600-3000, G-G, Type 1	6	323-1856	1	# Plug, Circuit (20 Place) (P20)
	338-4828-01	1	1600-4000 Amp, U-G, U-U, Type 3R, 4, 12	7	323-1859	18	# Socket, Contact (P20)
	338-4828-02	1	1600-4000 Amp, G-G, Type 3R, 4, 12	# – Parts Included in 338-3878-01 and 338-3878-03 Wiring Harnesses			
	338-4829-01	1	1200-4000 Amp, U-G, U-U, Open Construction				
	338-4829-02	1	1200-4000 Amp, G-G, Open Construction				

Wiring Harness Transfer Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Transfer Switch				
	A035P956	1	OTPCE Spec C – 2 Position Transfer Switch				
	A035P958	1	OTPCF, OTPCG, OTPCH Spec B – 2 Position Transfer Switch				
	A035P959	1	OTPCJ Spec A – 2 Position Transfer Switch				
	A035P960	1	OTPCE Spec C – 3 Position Transfer Switch				
	A035P962	1	OTPCF, OTPCG, OTPCH Spec B – 3 Position Transfer Switch				
	A035P963	1	OTPCJ Spec A – 3 Position Transfer Switch				



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