

Parts Manual

Transfer Switch

OHPC (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 OHPC 300/400/600/800 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	M003	Terminal Block – 30 Points
A029	4-Pole Switch	M007	Load Shed – From Emergency
A035	Utility to Generator Set Applications	M017	Security – Front Panel
A036	Utility to Utility Applications	M018	Display – Digital
A037	Generator Set to Generator Set Applications	M020	Communications – Lonworks TP-78
A041	One Phase – 2 or 3 wire	M022	Monitoring – Load
A042	Three Phase – 3 or 4 wire	M023	Module – Relay Signal
A044	Frequency – 60 Hz	M031	Communications – Lonworks FTT-10
A045	Frequency – 50 Hz	N002	Terminal Block – Battery Charger Alarm
A046	Listing – UL	N008	Terminal Lugs – Cable
A064	Listing – UL/NFPA20	N013	Harness – Extension
A065	2-Pole Switch	N031	Compression Lug Adapters (3/8 Stud)
B001	Cabinet – Type 1	N032	Compression Lug Adapters (1/2 Stud)
B002	Cabinet – Type 3R	N038	External Manual Operator
B003	Cabinet – Type 4	N043	Compression Lug Adapters (5/8 Stud)
B004	Construction – Open	R020	Voltage – 120
B010	Cabinet – Type 12	R021	Voltage – 208
C023	Control – Level 1	R022	Voltage – 220
C024	Control – Level 2	R023	Voltage – 240
D009	Meters – Bar Graph Display	R024	Voltage – 380
K001	Battery Charger – 2 Amp, 12/24V	R025	Voltage – 416
K002	Battery Charger – 10 Amp, 12V	R026	Voltage – 480
K003	Battery Charger – 10 Amp, 24V	R027	Voltage – 600
L101	Auxiliary Relay – 24 VDC Coil	R035	Voltage – 440
L102	Auxiliary Relay – Emergency Position – 24 VDC	R038	Voltage – 190
L103	Auxiliary Relay – Normal Position – 24 VDC	S052	Current Rating – 300 Amp
L201	Auxiliary Relay – 12 VDC Coil	S053	Current Rating – 400 Amp
L202	Auxiliary Relay – Emergency Position – 12 VDC	S054	Current Rating – 600 Amp
L203	Auxiliary Relay – Normal Position – 12 VDC	S055	Current Rating – 800 Amp

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Abbreviations

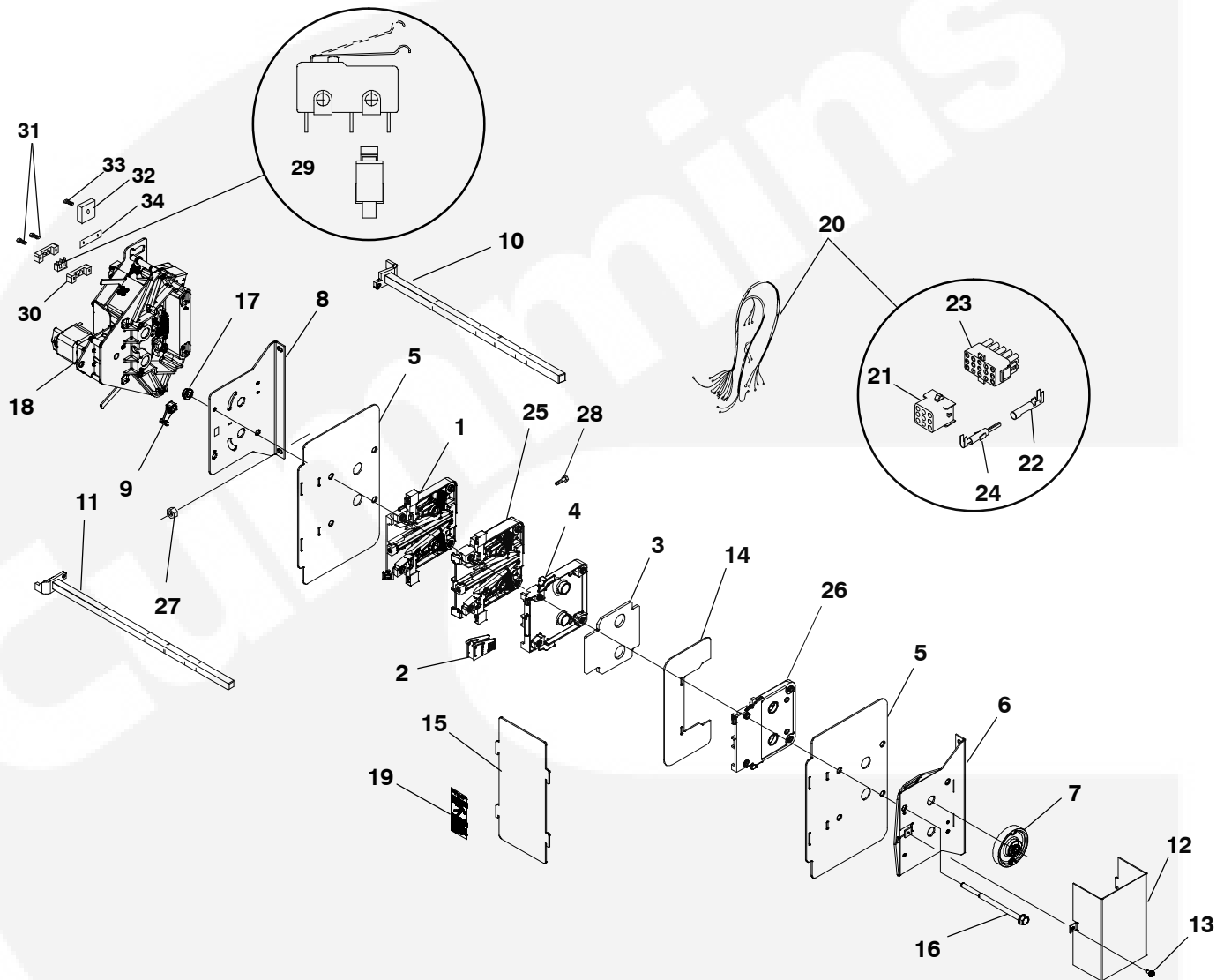
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
CSA	Canadian Standard Association	oz.	Ounce
DC	Direct Current	PCB	Printed Circuit Board
Deg.	Degree	PDT	Form C Contacts
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	SCR	Silicon Controlled Rectifier
IEC	International Electrotechnical Commission	Spec	Specification
IT	Internal Tooth	Thk	Thick
kW	Kilowatt	UL	Underwriters Laboratories Inc.
LPG	Liquid Petroleum Gas	UNC	Union National Coarse
LT	Left	UNF	Union National Fine
M(meter number)	Meter	VAC	Volts Alternating Current
MCM	Circular Mils/1000	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

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Transfer Switch 300/400/600 Amp

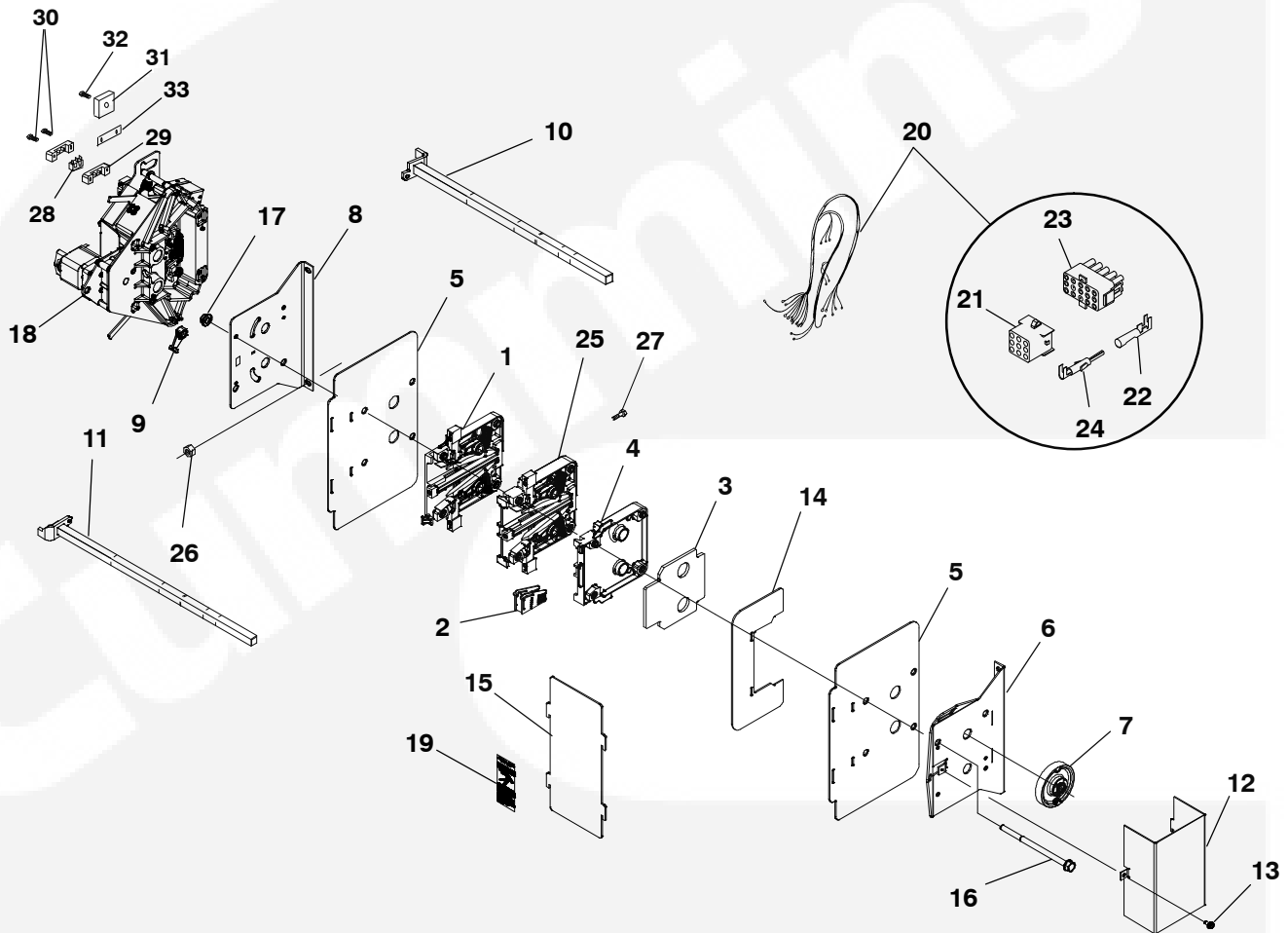


Transfer Switch 300/400/600 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cassette, End (See Separate Page for Components)	16			Screw, Hex Washer Head (M8 x 1.25)
	306-4526	2	2 Pole		800-3045-04	4	2 Pole (175mm Long)
	306-4526	3	3 Pole		800-3045-05	4	3 Pole (245mm Long)
	306-4526	4	4 Pole		800-3045-06	4	4 Pole (320mm Long)
2			Arc Chute	17	870-2159	4	Nut, Locking (M8 x 1.25)
	306-4496	8	2 Pole	18			Actuator
	306-4496	12	3 Pole		306-4627-01	1	2 Pole
	306-4496	16	4 Pole		306-4627-03	1	3 and 4 Pole
3			Cassette, Spacer	19	098-7735	1	Label, Cover
	306-4492	1	2 Pole	20			Harness, Switch (Includes Parts Marked *)
	306-4492	2	3 Pole		338-3861	1	2 Pole
	306-4492	3	4 Pole		338-3860	1	3 and 4 Pole
4			Shield, Magnetic Flux	21	323-1291	1	* Plug, 9-Pin
	319-3829	2	2 Pole	22	323-1200	7	* Socket, Contact
	319-3829	4	3 Pole	23	323-1252	1	* Plug, Circuit (P1)
	319-3829	6	4 Pole	24	323-1199	15	* Pin, Contact
5	306-4544-02	2	Barrier, End	25			Cassette, Main (See Separate Page for Components)
6	306-4547	1	Bracket, Mounting – Switch				
7			Flywheel		306-4525	2	2 Pole
	306-4581-02	2	2 Pole		306-4525	3	3 Pole
	306-4581-01	2	3 Pole		306-4525	4	4 Pole
	306-4600	2	4 Pole				
8	306-4656	1	Interlock Assembly (See Separate Page for Components)	26	306-4491	1	Cassette, Half
				27	870-2056	4	Nut, Lock – Flange (M10)
				28			Screw, Hex Washer Head (M4 x 0.7 x 10)
9	170-4689	2	Lever, Disconnect		815-0979-02	4	2 Pole
10			Shaft, Actuation (S1)		815-0979-02	6	3 Pole
	306-4532-04	1	2 Pole		815-0979-02	8	4 Pole
	306-4532-05	1	3 Pole				
	306-4532-06	1	4 Pole				
11			Shaft, Actuation (S2)	29	308-1099	2	Switch, Limit
	306-4572-04	1	2 Pole	30	306-4578	6	Holder, Limit Switch
	306-4572-05	1	3 Pole	31	815-0979-04	4	Screw, Hex Head Washer (M4 X 0.7mm)
	306-4572-06	1	4 Pole				Rectifier
12	306-4573	1	Cover, Flywheel	32	306-4578	2	Screw, Hex Head Washer (M4 X 0.7mm)
13	815-0753	1	Screw, Cap – Hex Head (Thread Forming) (M6 x 1mm)	33	815-0979-05	2	Insulator, Limit Switch
14			Barrier, Phase	34	306-4653	2	
	306-4545-02	1	2 Pole				
	306-4545-02	2	3 Pole				
	306-4545-02	3	4 Pole				
15			Cover, Switch				
	306-4546-04	1	2 Pole				
	306-4546-05	1	3 Pole				
	306-4546-06	1	4 Pole				

* – Parts Included in 338-3860 and 338-3861 Wiring Harness

Transfer Switch 800 Amp

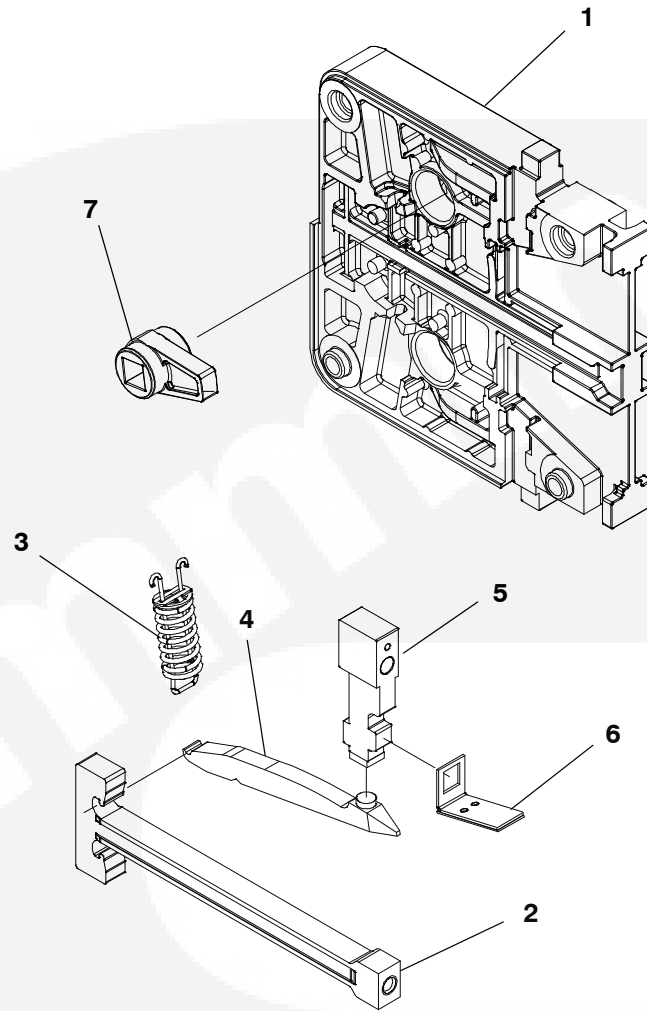


Transfer Switch 800 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cassette, End (See Separate Page for Components)	16			Screw, Hex Washer Head (M8 x 1.25)
	306-4526	2	2 Pole		800-3045-07	4	2 Pole (243mm Long)
	306-4526	3	3 Pole		800-3045-08	4	3 Pole (345mm Long)
	306-4526	4	4 Pole		800-3045-09	4	4 Pole (448mm Long)
2			Arc Chute	17	870-2159	4	Nut, Locking (M8 x 1.25)
	306-4496	12	2 Pole	18			Actuator
	306-4496	18	3 Pole		306-4627-03	1	2 and 3 Pole
	306-4496	24	4 Pole		306-4771-01	1	4 Pole
3			Cassette, Spacer	19	098-7735	1	Label, Cover
	306-4492	2	2 Pole	20			Harness, Switch (Includes Parts Marked *)
	306-4492	3	3 Pole				2 Pole
	306-4492	4	4 Pole		338-3861	1	3 and 4 Pole
4			Shield, Magnetic Flux		338-3860	1	* Plug, 9-Pin
	319-3829	2	2 Pole	21	323-1291	1	* Socket, Contact
	319-3829	4	3 Pole	22	323-1200	7	* Plug, Circuit (P1)
	319-3829	6	4 Pole	23	323-1252	1	* Pin, Contact
5	306-4766	2	Barrier, End	24	323-1199	15	Cassette, Main (See Separate Page for Components)
6	306-4547	1	Bracket, Mounting – Switch	25			2 Pole
7			Flywheel				3 Pole
	306-4581-01	2	2 Pole		306-4525	4	4 Pole
	104-2013-01	2	3 Pole		306-4525	6	Nut, Lock – Flange (M10)
	104-2013-02	2	4 Pole		306-4525	8	Screw, Hex Washer Head (M4 x 0.7 x 10)
8	306-4656	1	Interlock Assembly (See Separate Page for Components)	26	870-2056	4	2 Pole
9	170-4689	2	Lever, Disconnect	27			3 Pole
10			Shaft, Actuation (S1)		815-0979-02	4	4 Pole
	306-4532-08	1	2 Pole		815-0979-02	6	Switch, Limit
	306-4532-09	1	3 Pole		815-0979-02	8	Holder, Limit Switch
	306-4532-10	1	4 Pole	28	308-1099	2	Screw, Hex Head Washer (M4 X 0.7mm)
11			Shaft, Actuation (S2)	29	306-4578	6	Rectifier
	306-4572-08	1	2 Pole	30	815-0979-04	4	Screw, Hex Head Washer (M4 X 0.7mm)
	306-4572-09	1	3 Pole	31	306-4578	2	Insulator, Limit Switch
	306-4572-10	1	4 Pole	32	815-0979-05	2	
12	306-4573	1	Cover, Flywheel	33	306-4653	2	
13	815-0753	1	Screw, Cap – Hex Head (Thread Forming) (M6 x 1mm)				
14			Barrier, Phase				
	306-4545-02	1	2 Pole				
	306-4545-02	2	3 Pole				
	306-4545-02	3	4 Pole				
15			Cover, Switch				
	306-4546-04	1	2 Pole				
	306-4546-05	1	3 Pole				
	306-4546-06	1	4 Pole				

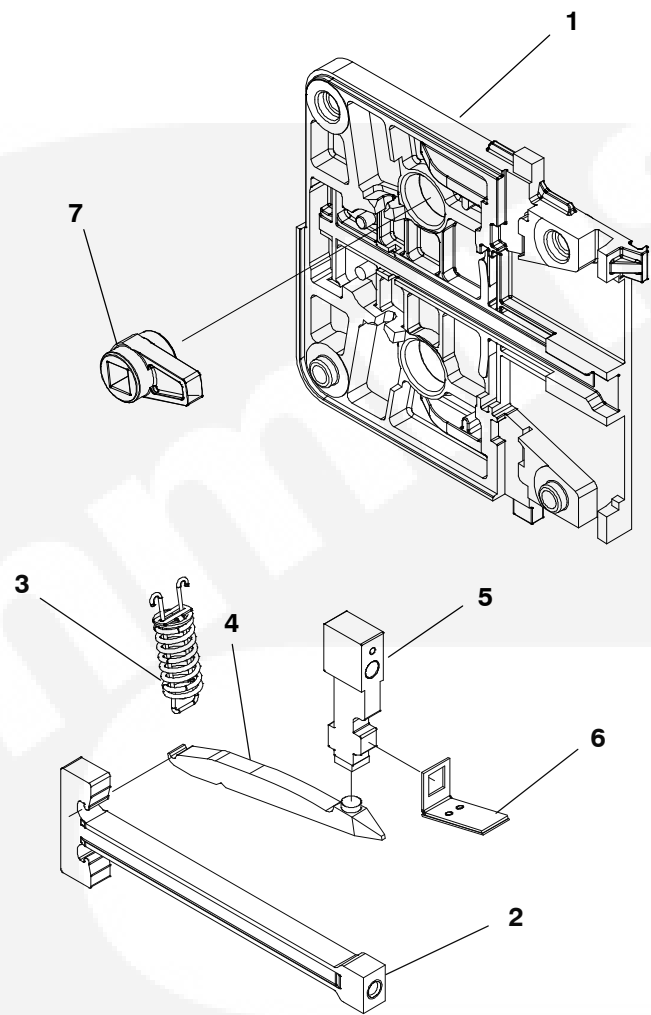
* – Parts Included in 338-3860 and 338-3861 Wiring Harness

Main Cassette



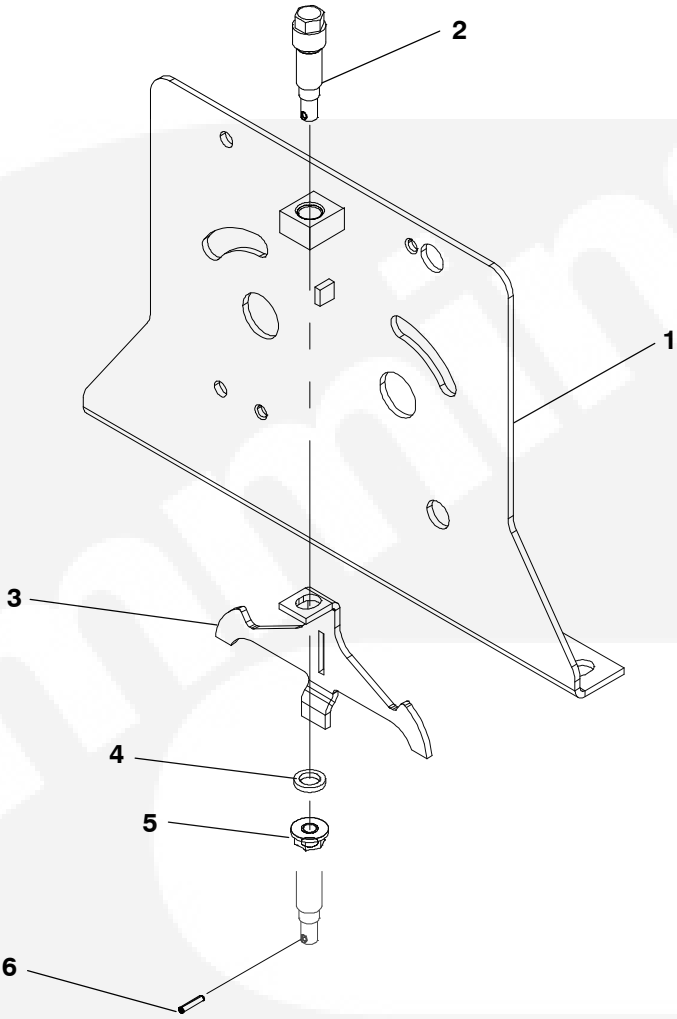
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4525	–	Cassette, Main (Includes the Following Parts)	4	337-3434	2	Bus – Moving
1	306-4490	1	Cassette, Switch	5	337-3433	2	Bar, Bus – Source
2	337-3430	1	Bar, Bus – Load	6	306-4739-02	2	Runner, Arc
3	306-4482	2	Spring Assembly	7	306-4471	2	Cam, Cassette

End Cassette



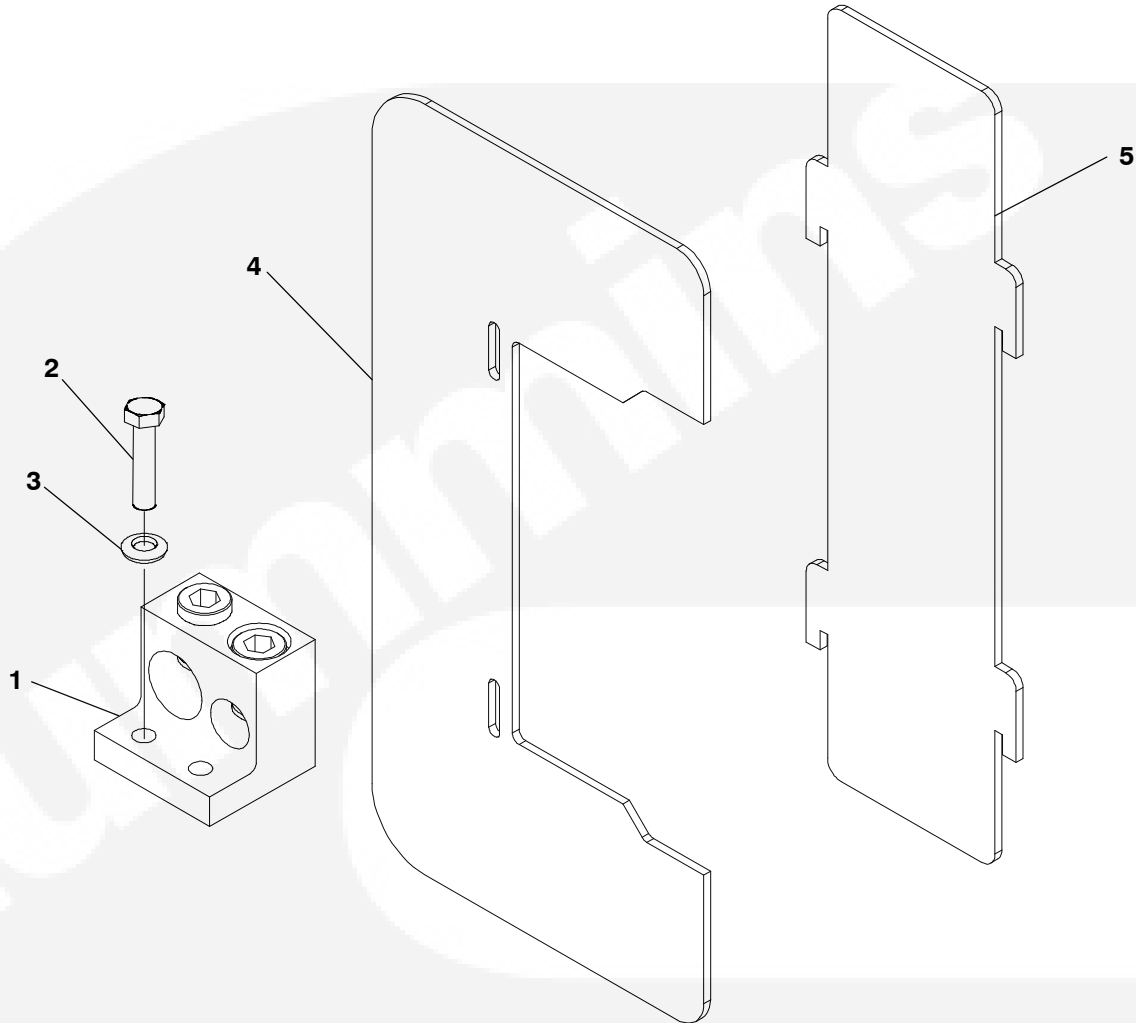
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	306-4526	-	Cassette, End (Includes the Following Parts)	4	337-3434	2	Bus - Moving
1	306-4491	1	Cassette, Half	5	337-3433	2	Bar, Bus - Source
2	337-3430	1	Bar, Bus - Load	6	306-4739-02	2	Runner, Arc
3	306-4482	2	Spring Assembly	7	306-4471	2	Cam, Cassette

Interlock Assembly



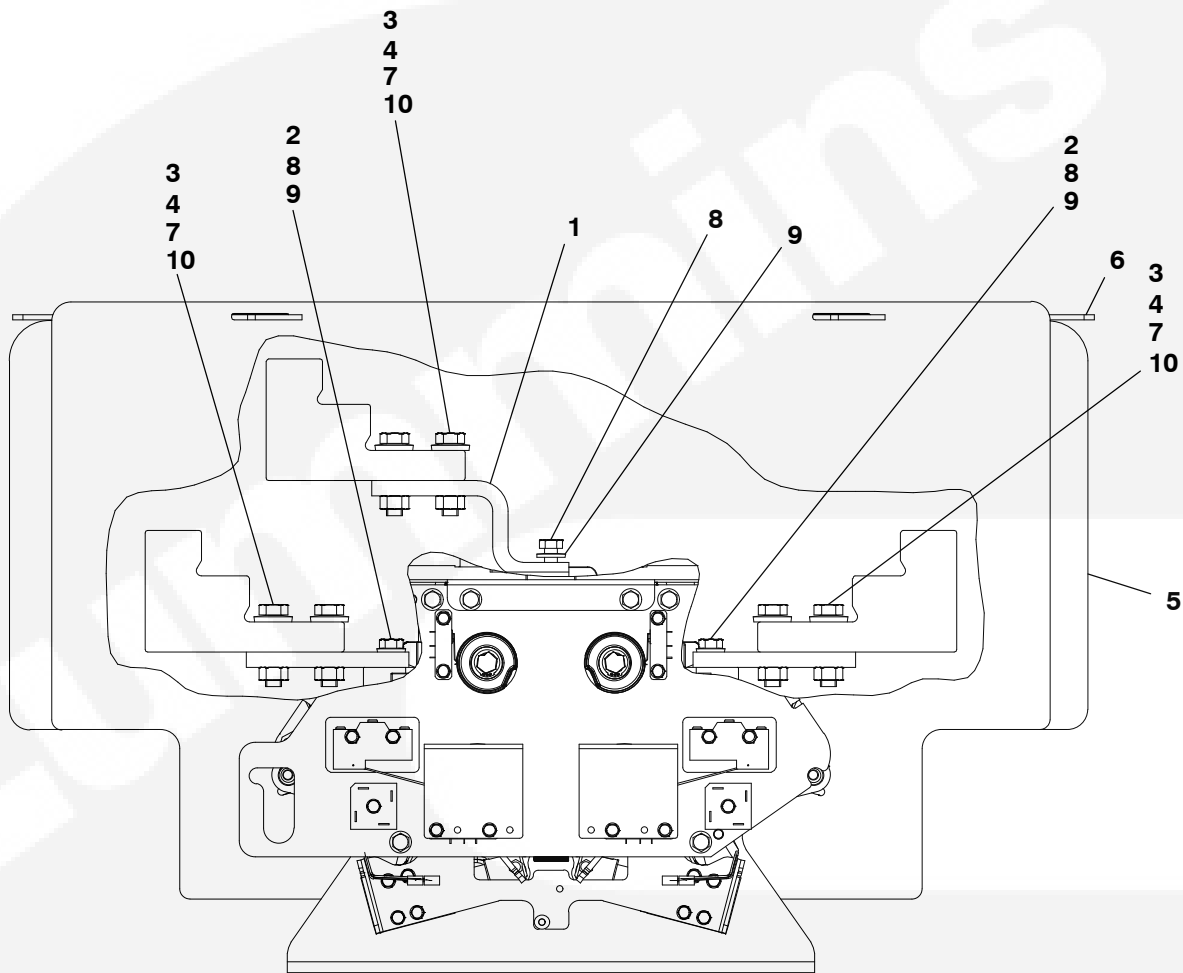
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4656	-	Interlock Assembly (Includes the Following Parts)	3	306-4661	1	Bar, Interlock
1	306-4657	1	Bracket, Switch	4	526-2292	1	Washer, Flat
2	306-4662	1	Screw, Interlock	5	870-2235	1	Nut, Lock - Flange (M8 x 1.25)
				6	516-0264	1	Pin, Spring

Mechanical Lugs 300/400/600 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Lug, Solderless	3			Washer, Spring
			300/400 Amp				2 Pole
	332-3657	6	2 Pole		851-0028	12	2 Pole
	332-3657	9	3 Pole		851-0028	18	3 Pole
	332-3657	12	4 Pole		851-0028	24	4 Pole
			600 Amp	4			Barrier, Phase
	332-3658	6	2 Pole		306-4545-02	1	2 Pole
	332-3658	9	3 Pole		306-4545-02	2	3 Pole
	332-3658	12	4 Pole		306-4545-02	3	4 Pole
2			Screw, Cap – Hex Head (M8 x 1.25 x 35)	5			Cover, Switch
	800-2060	12	2 Pole		306-4546-04	1	2 Pole
	800-2060	18	3 Pole		306-4546-05	1	3 Pole
	800-2060	24	4 Pole		306-4546-06	1	4 Pole

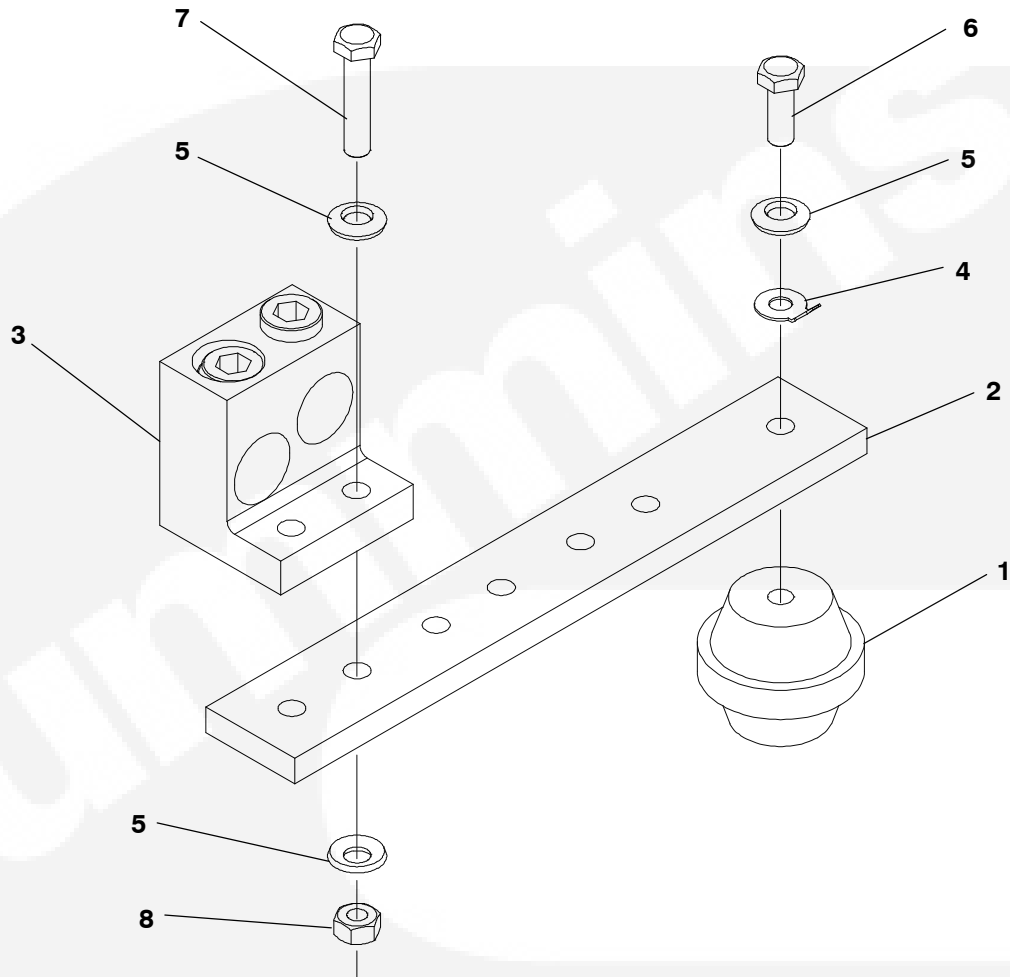
Mechanical Lugs 800 Amp



Mechanical Lugs 800 Amp

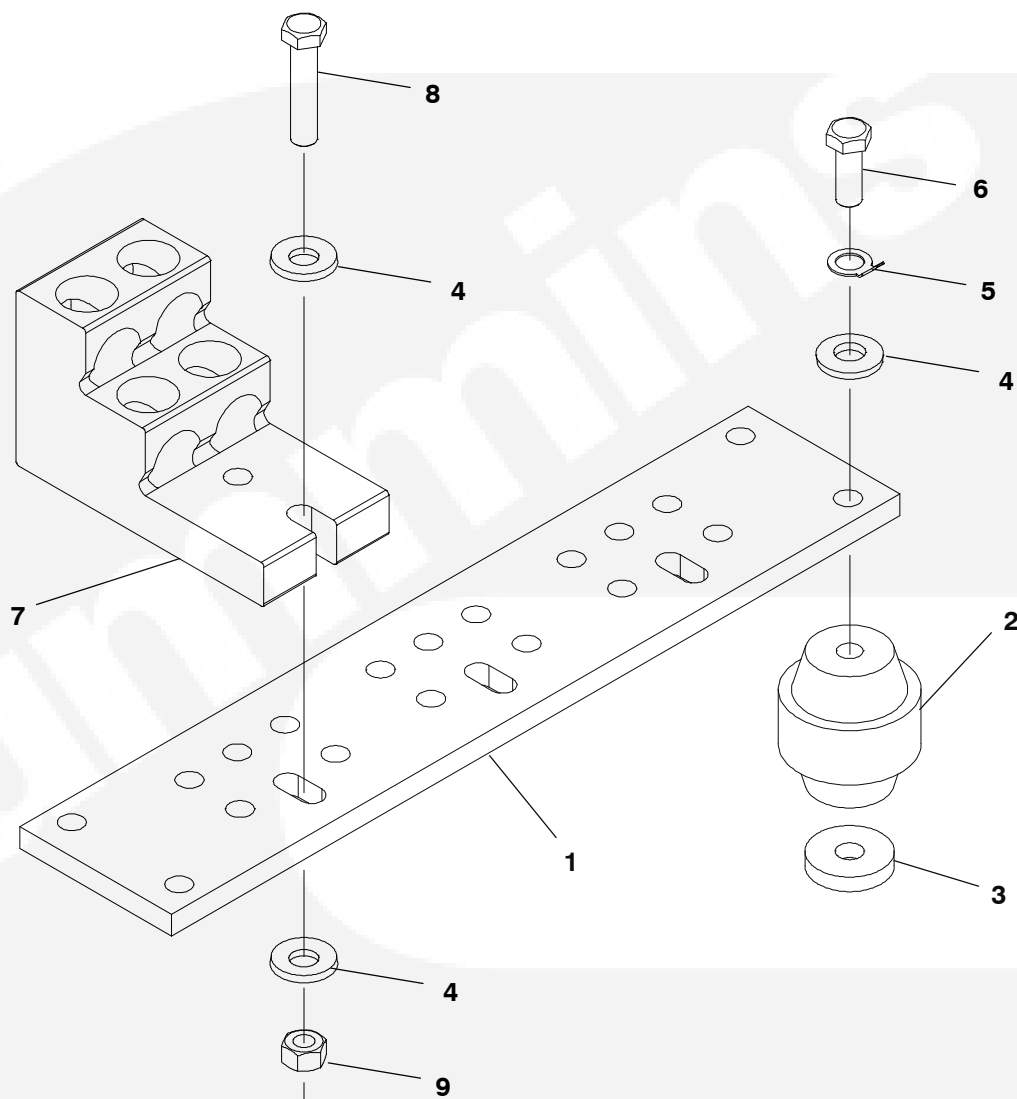
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	6			Cover, Switch
	337-3633-02	2	2 Pole		319-5137-01	1	2 Pole
	337-3633-02	3	3 Pole		319-5137-02	1	3 Pole
	337-3633-02	4	4 Pole		319-5137-03	1	4 Pole
2			Bar, Bus – Lug	7			Lug
	337-3634-02	4	2 Pole		332-1557	6	2 Pole
	337-3634-02	6	3 Pole		332-1557	9	3 Pole
	337-3634-02	8	4 Pole		332-1557	12	4 Pole
3			Washer, Lock – Spring (3/8)	8			Screw, Cap – Hex Head (M8 x 1.25 x 35)
	851-0022	12	2 Pole		800-2060	18	2 Pole
	851-0022	18	3 Pole		800-2060	27	3 Pole
	851-0022	24	4 Pole		800-2060	36	4 Pole
4			Screw, Cap – Hex Head (M10 x 1.5 x 45)	9			Washer, Spring (5/16)
	800-2090	12	2 Pole		851-0028	18	2 Pole
	800-2090	18	3 Pole		851-0028	27	3 Pole
	800-2090	24	4 Pole		851-0028	36	4 Pole
5			Barrier, Phase	10			Nut, Hex (M10 x 1.5)
	306-4767	1	2 Pole		860-2009	12	2 Pole
	306-4767	2	3 Pole		860-2009	18	3 Pole
	306-4767	3	4 Pole		860-2009	24	4 Pole

**Neutral Bar
Mechanical Lugs
300/400/600 Amp**



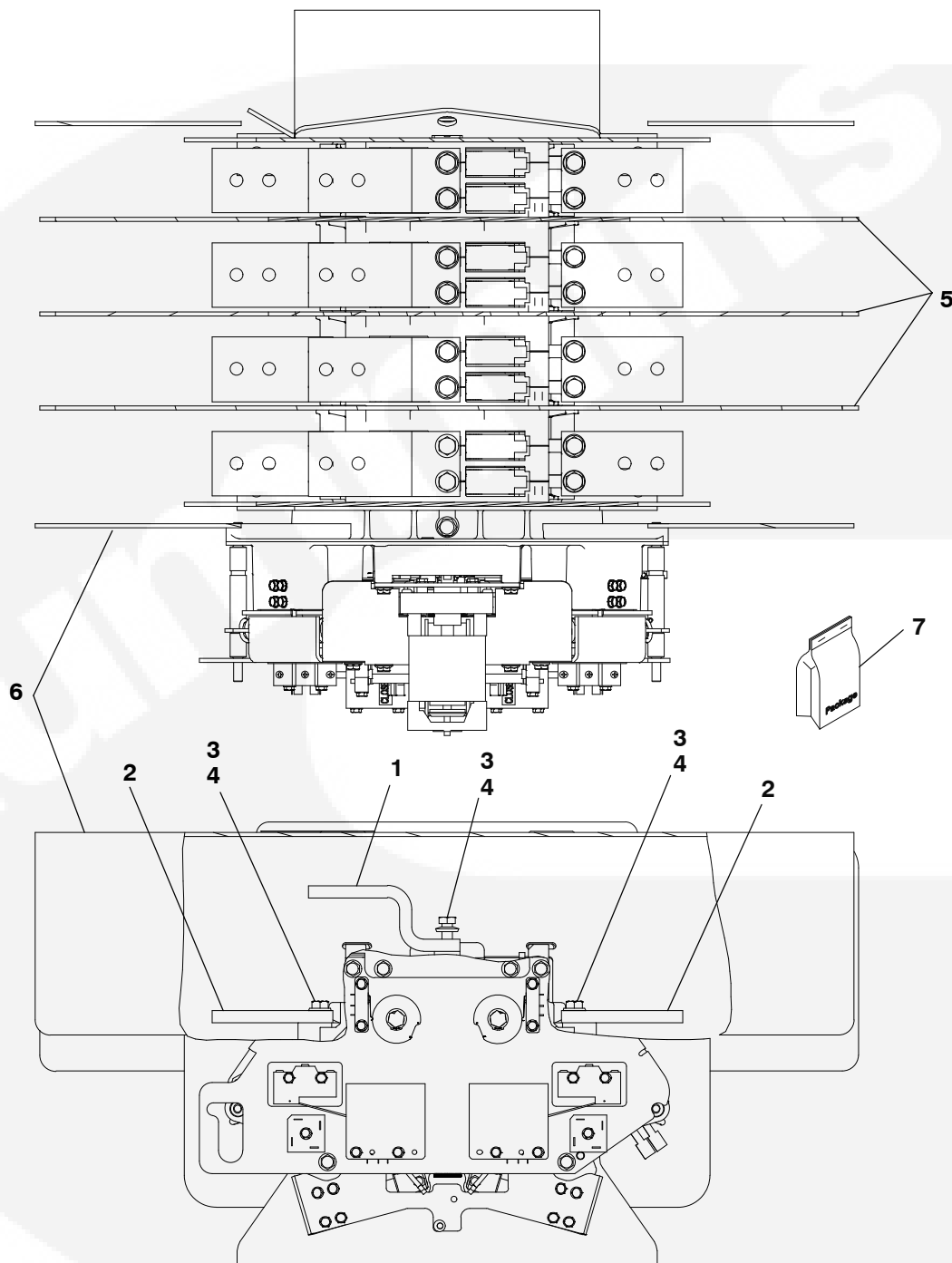
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Bar Assembly, Neutral (Includes the Following Parts)	4	332-2463	1	Ring, Terminal
	337-3511-01	1	300/400 Amp	5	851-0028	14	Washer, Spring (5/16")
	337-3511-02	1	600 Amp	6	800-0027	2	Screw, Cap - Hex Head (5/16-18 x .88)
1	332-2744-03	2	Standoff, Insulator	7	800-0031	6	Screw, Cap - Hex Head (5/16-18 x 1.5)
2	337-3513-02	1	Bar, Bus - Neutral	8	862-0015	6	Nut, Hex (5/16-18)
3			Lug, Solderless				
	332-3657	3	300/400 Amp				
	332-3658	3	600 Amp				

Neutral Bar Mechanical Lugs 800 Amp



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3644	1	Bar Assembly, Neutral (Includes the Following Parts)	6	800-0050	4	Screw, Cap – Hex Head (3/8-16 x 1)
1	337-3641-02	1	Bar, Bus – Neutral	7	332-1557	3	Lug, Solderless
2	332-2744-07	4	Standoff, Insulator	8	800-0053	6	Screw, Cap – Hex Head (3/8-16 x 1.75)
3	526-0077	4	Washer, Flat (3/8)	9	862-0033	6	Nut, Hex (3/8-16)
4	851-0022	16	Washer, Spring (3/8")				
5	332-2564	1	Ring, Terminal				

Compression Lug Adapters
3/8 Stud
300/400/600 Amp



Compression Lug Adapters
3/8 Stud
300/400600 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3566-02	2	2 Pole		306-4601-02	1	2 Pole
	337-3566-02	3	3 Pole		306-4601-02	2	3 Pole
	337-3566-02	4	4 Pole		306-4601-02	3	4 Pole
2			Bar, Bus – Lug	6			Cover, Switch
	337-3565-02	4	2 Pole		319-4648-04	1	2 Pole
	337-3565-02	6	3 Pole		319-4648-05	1	3 Pole
	337-3565-02	8	4 Pole		319-4648-06	1	4 Pole
3			Washer, Lock – Spring (5/16)	7	543-0026	1	Package, Hardware
	851-0028	12	2 Pole				
	851-0028	18	3 Pole				
	851-0028	24	4 Pole				
4			Screw, Cap – Hex Head (M8 x 1.25 x 35)				
	800-2060	12	2 Pole				
	800-2060	18	3 Pole				
	800-2060	24	4 Pole				



Compression Lug Adapters 1/2 Stud 300/400/600 Amp

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6

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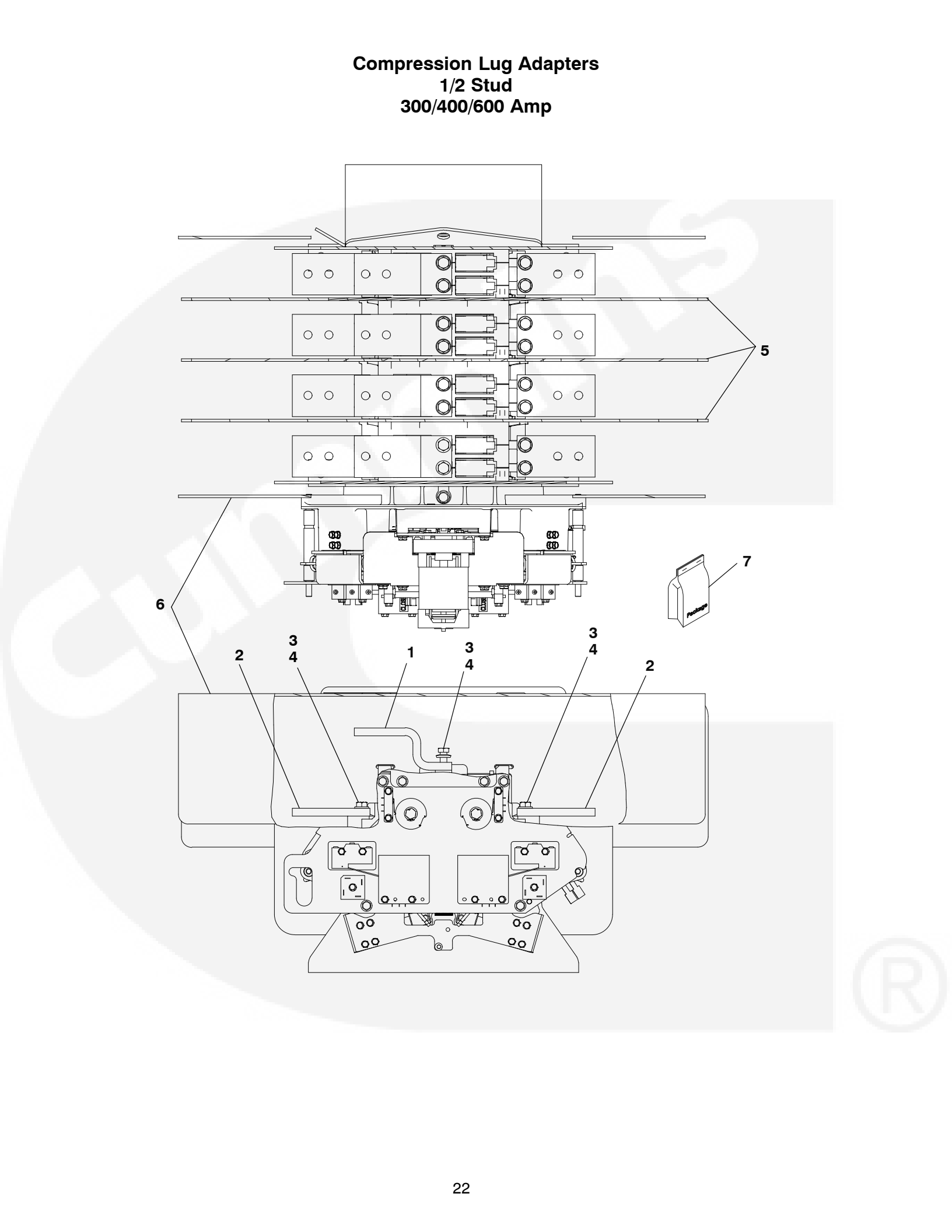
1

2

3

4

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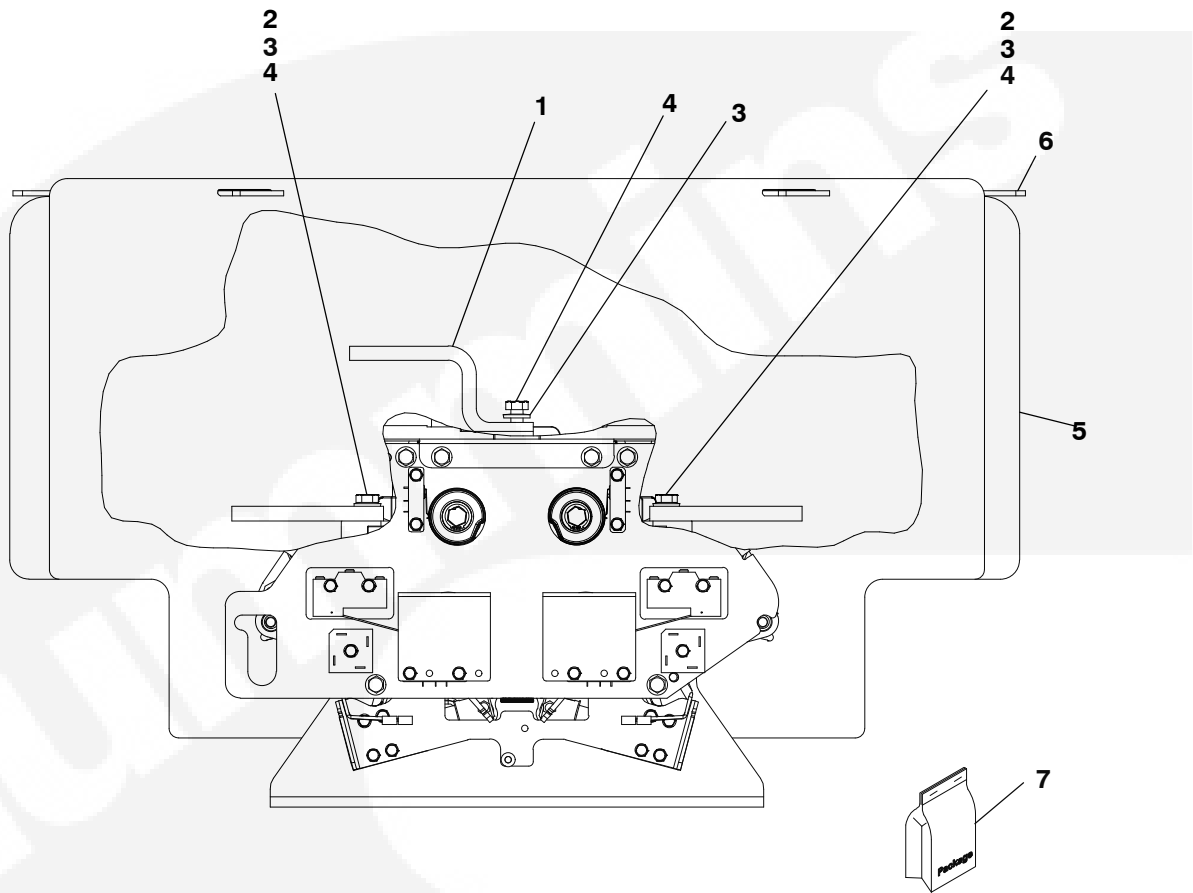


Compression Lug Adapters
1/2 Stud
300/400/600 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3569-02	2	2 Pole		306-4601-02	1	2 Pole
	337-3569-02	3	3 Pole		306-4601-02	2	3 Pole
	337-3569-02	4	4 Pole		306-4601-02	3	4 Pole
2			Bar, Bus – Lug	6			Cover, Switch
	337-3568-02	4	2 Pole		319-4648-04	1	2 Pole
	337-3568-02	6	3 Pole		319-4648-05	1	3 Pole
	337-3568-02	8	4 Pole		319-4648-06	1	4 Pole
3			Washer, Lock – Spring (5/16)	7	543-0027	1	Package, Hardware
	851-0028	12	2 Pole				
	851-0028	18	3 Pole				
	851-0028	24	4 Pole				
4			Screw, Cap – Hex Head (M8 x 1.25 x 35)				
	800-2060	12	2 Pole				
	800-2060	18	3 Pole				
	800-2060	24	4 Pole				

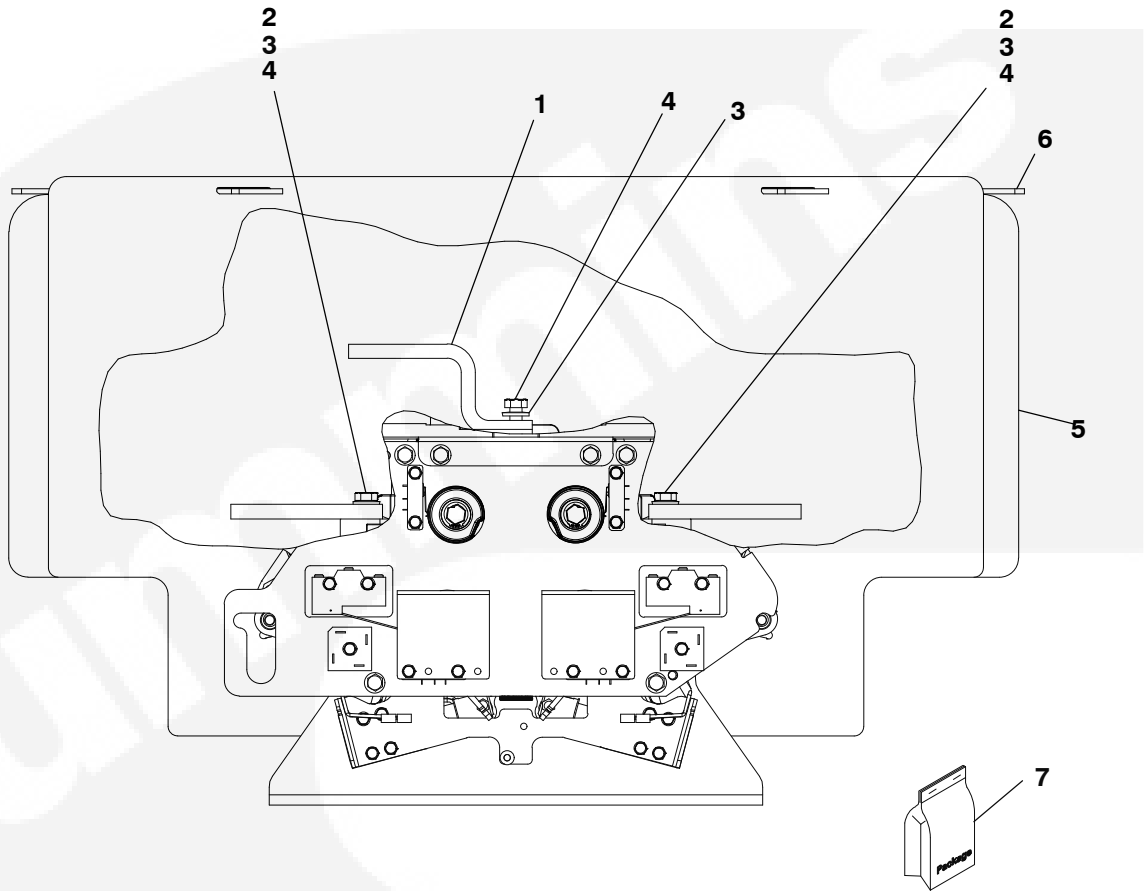


Compression Lug Adapters **3/8 Stud** **800 Amp**



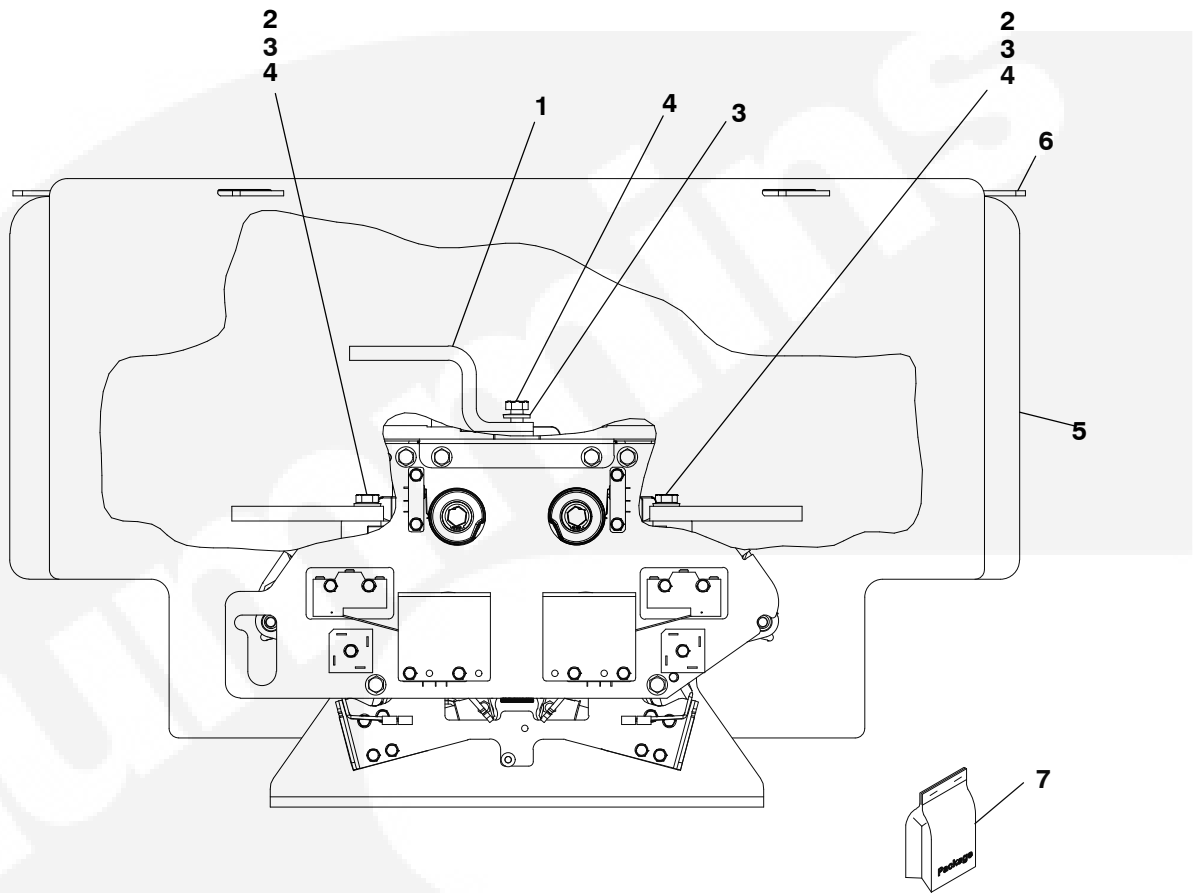
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3633-02	2	2 Pole		306-4767	1	2 Pole
	337-3633-02	3	3 Pole		306-4767	2	3 Pole
	337-3633-02	4	4 Pole		306-4767	3	4 Pole
2			Bar, Bus – Lug	6			Cover, Switch
	337-3564-02	4	2 Pole		319-5137-01	1	2 Pole
	337-3564-02	6	3 Pole		319-5137-02	1	3 Pole
	337-3564-02	8	4 Pole		319-5137-03	1	4 Pole
3			Washer, Lock – Spring (5/16)	7	543-0042	1	Package, Hardware
	851-0028	18	2 Pole				
	851-0028	27	3 Pole				
	851-0028	36	4 Pole				
4			Screw, Cap – Hex Head (M8 x 1.25 x 35)				
	800-2060	18	2 Pole				
	800-2060	27	3 Pole				
	800-2060	36	4 Pole				

Compression Lug Adapters 1/2 Stud 800 Amp



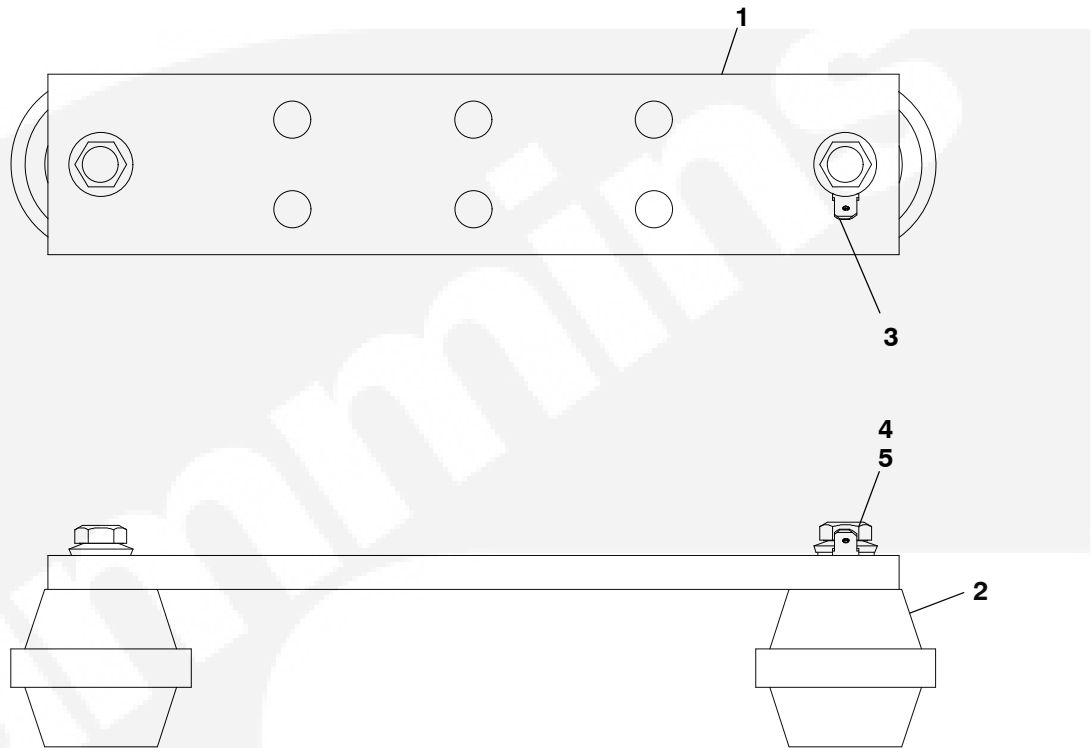
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3638-02	2	2 Pole		306-4767	1	2 Pole
	337-3638-02	3	3 Pole		306-4767	2	3 Pole
	337-3638-02	4	4 Pole		306-4767	3	4 Pole
2			Bar, Bus – Lug	6			Cover, Switch
	337-3637-02	4	2 Pole		319-5137-01	1	2 Pole
	337-3637-02	6	3 Pole		319-5137-02	1	3 Pole
	337-3637-02	8	4 Pole		319-5137-03	1	4 Pole
3			Washer, Lock – Spring (5/16)	7	543-0043	1	Package, Hardware
	851-0028	18	2 Pole				
	851-0028	27	3 Pole				
	851-0028	36	4 Pole				
4			Screw, Cap – Hex Head (M8 x 1.25 x 35)				
	800-2060	18	2 Pole				
	800-2060	27	3 Pole				
	800-2060	36	4 Pole				

Compression Lug Adapters **5/8 Stud** **800 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3640-02	2	2 Pole		306-4767	1	2 Pole
	337-3640-02	3	3 Pole		306-4767	2	3 Pole
	337-3640-02	4	4 Pole		306-4767	3	4 Pole
2			Bar, Bus – Lug	6			Cover, Switch
	337-3639-02	4	2 Pole		319-5137-01	1	2 Pole
	337-3639-02	6	3 Pole		319-5137-02	1	3 Pole
	337-3639-02	8	4 Pole		319-5137-03	1	4 Pole
3			Washer, Lock – Spring (5/16)	7	543-0044	1	Package, Hardware
	851-0028	18	2 Pole				
	851-0028	27	3 Pole				
	851-0028	36	4 Pole				
4			Screw, Cap – Hex Head (M8 x 1.25 x 35)				
	800-2060	18	2 Pole				
	800-2060	27	3 Pole				
	800-2060	36	4 Pole				

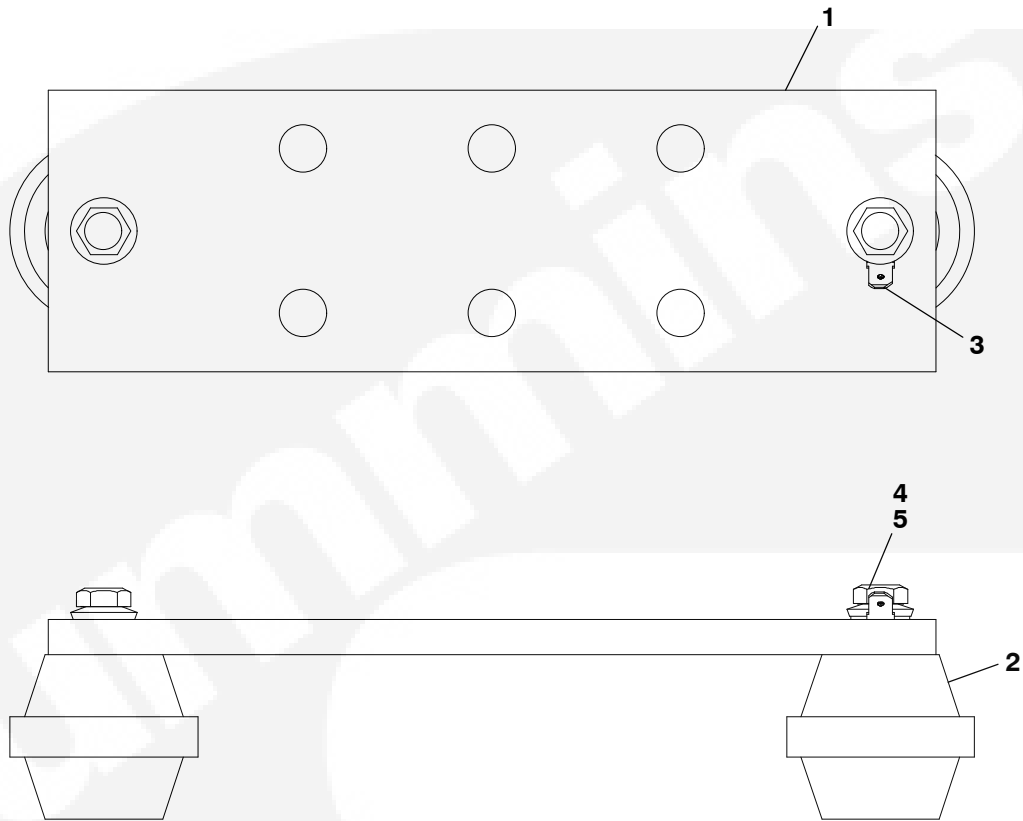
**Neutral Bar
Compression Lugs
3/8 Stud
300/400/600 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3574	-	Bar, Bus - Assembly
1	337-3567-02	1	Bar, Bus - Neutral
2	332-2744-03	2	Standoff, Insulator
3	332-2463	1	Ring, Terminal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	851-0028	2	Washer, Lock - Spring (5/16)
5	800-0027	2	Screw, Cap - Hex Head (5/16-18 x .88)

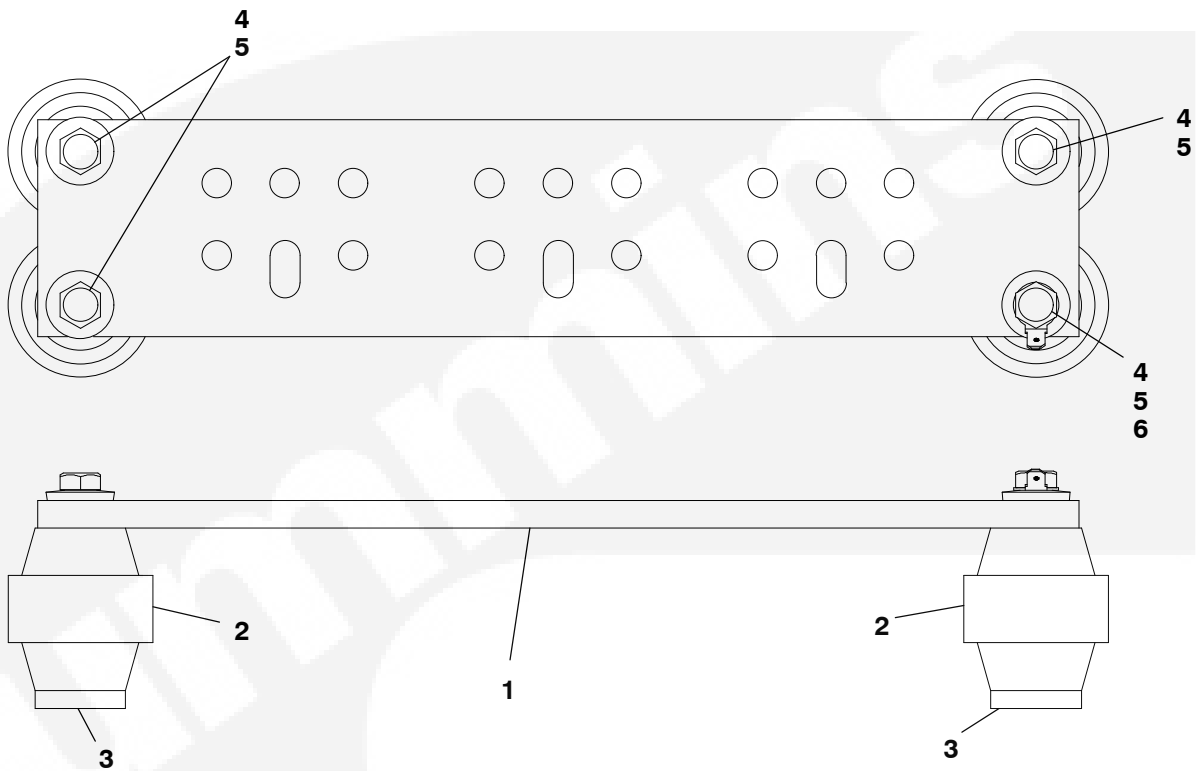
**Neutral Bar
Compression Lugs
1/2 Stud
300/400/600 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3575	-	Bar, Bus - Assembly
1	337-3570-02	1	Bar, Bus - Neutral
2	332-2744-03	2	Standoff, Insulator
3	332-2463	1	Ring, Terminal

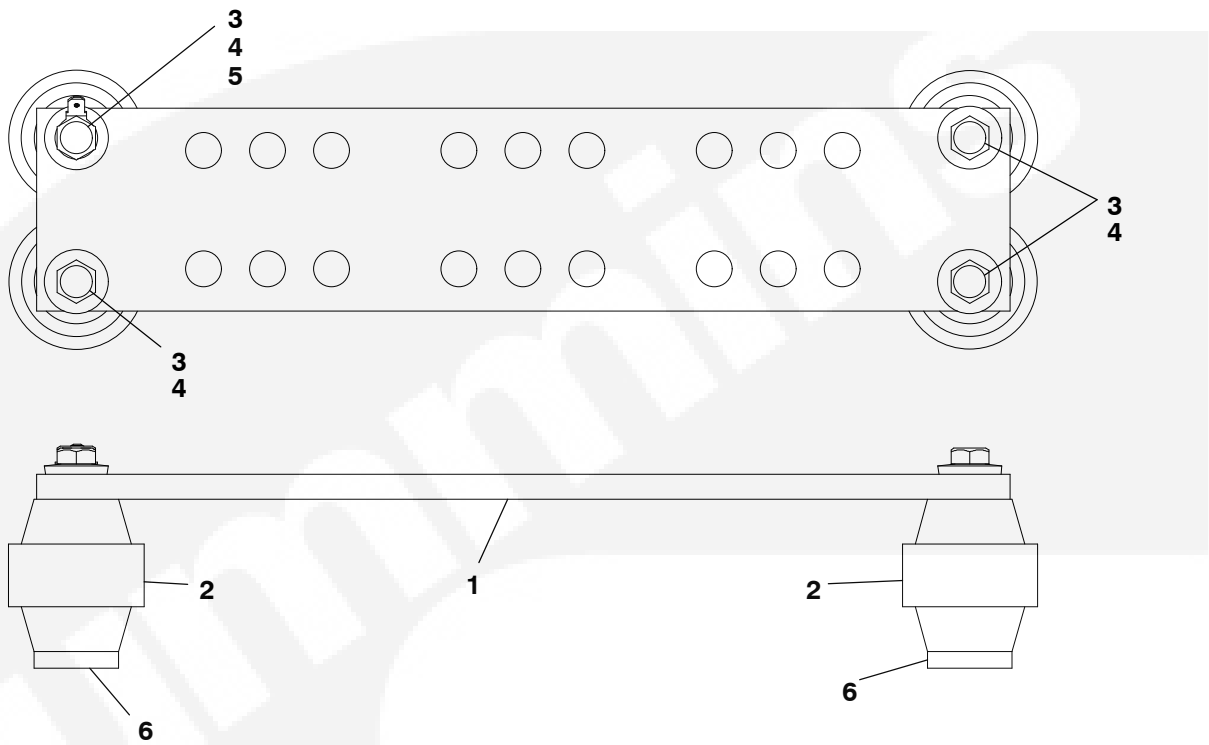
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	851-0028	2	Washer, Lock - Spring (5/16)
5	800-0027	2	Screw, Cap - Hex Head (5/16-18 x .88)

**Neutral Bar
Compression Lugs
3/8 Stud
800 Amp**



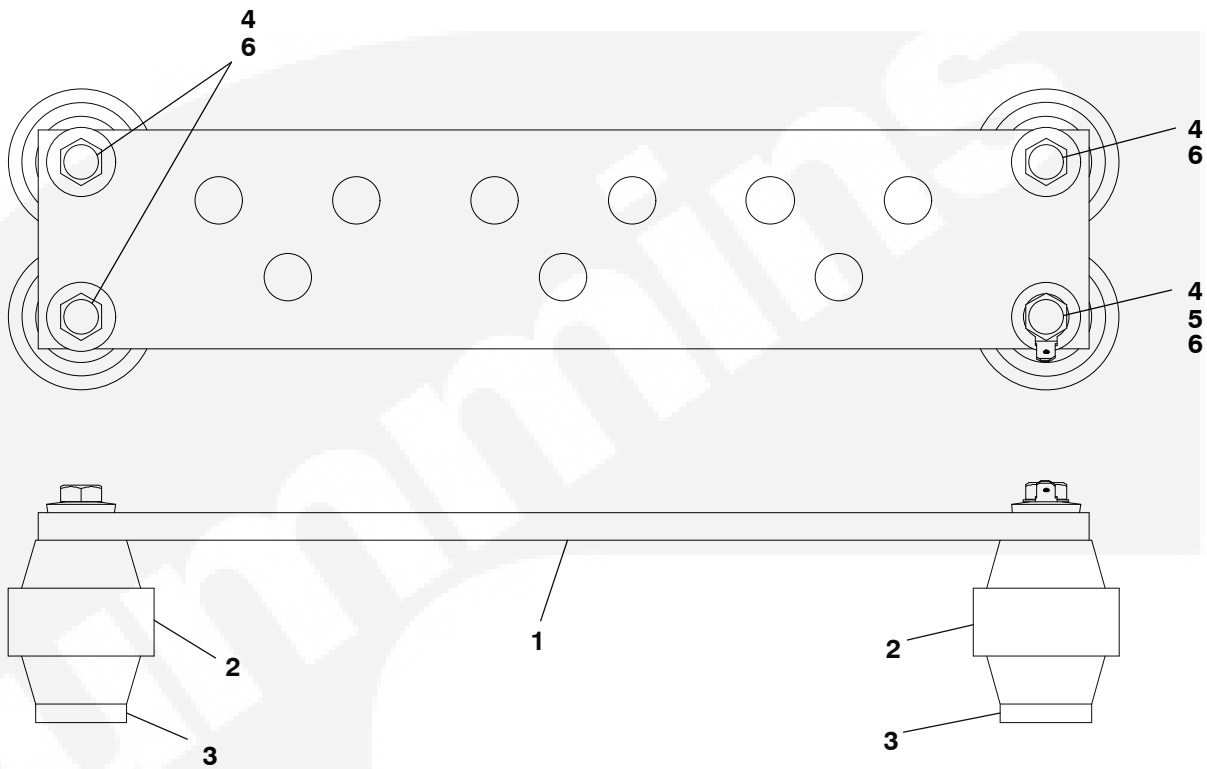
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3650	-	Bar, Bus - Assembly	4	851-0022	4	Washer, Lock - Spring (3/8)
1	337-3641-02	1	Bar, Bus - Neutral	5	800-0050	4	Screw, Cap - Hex Head (5/16-18 x 1)
2	332-2744-07	4	Standoff, Insulator	6	332-2564	1	Ring, Terminal
3	526-0077	4	Washer, Flat (3/8)				

**Neutral Bar
Compression Lugs
1/2 Stud
800 Amp**



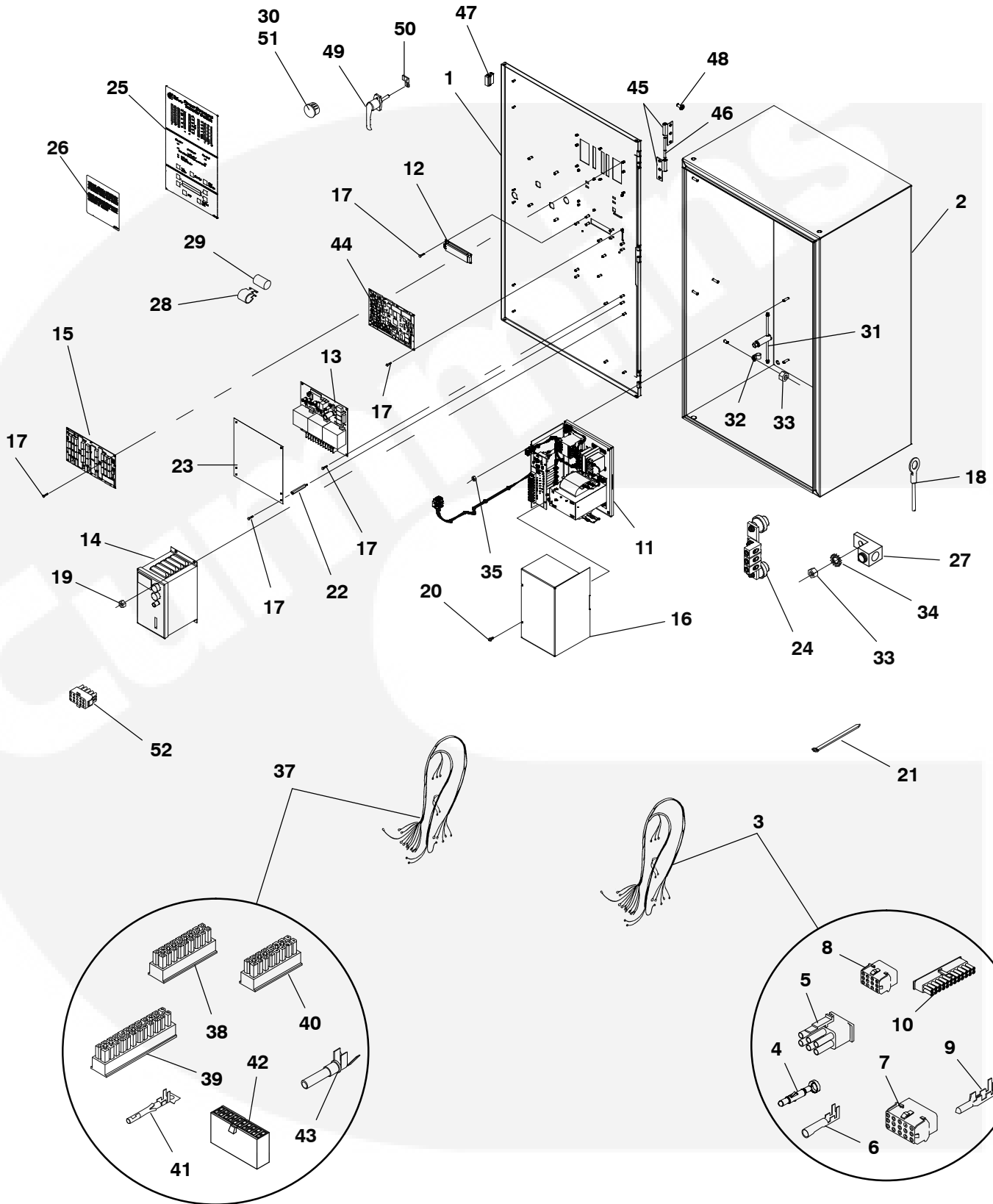
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3648	-	Bar, Bus - Assembly	4	800-0050	4	Screw, Cap - Hex Head (5/16-18 x 1)
1	337-3642-02	1	Bar, Bus - Neutral	5	332-2564	1	Ring, Terminal
2	332-2744-07	4	Standoff, Insulator	6	526-0077	4	Washer, Flat (3/8)
3	851-0022	4	Washer, Lock - Spring (3/8)				

**Neutral Bar
Compression Lugs
5/8 Stud
800 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3649	-	Bar, Bus - Assembly	4	851-0022	4	Washer, Lock - Spring (3/8)
1	337-3643-02	1	Bar, Bus - Neutral	5	332-2564	1	Ring, Terminal
2	332-2744-07	4	Standoff, Insulator	6	800-0050	4	Screw, Cap - Hex Head (5/16-18 x 1)
3	526-0077	4	Washer, Flat (3/8)				

Cabinet

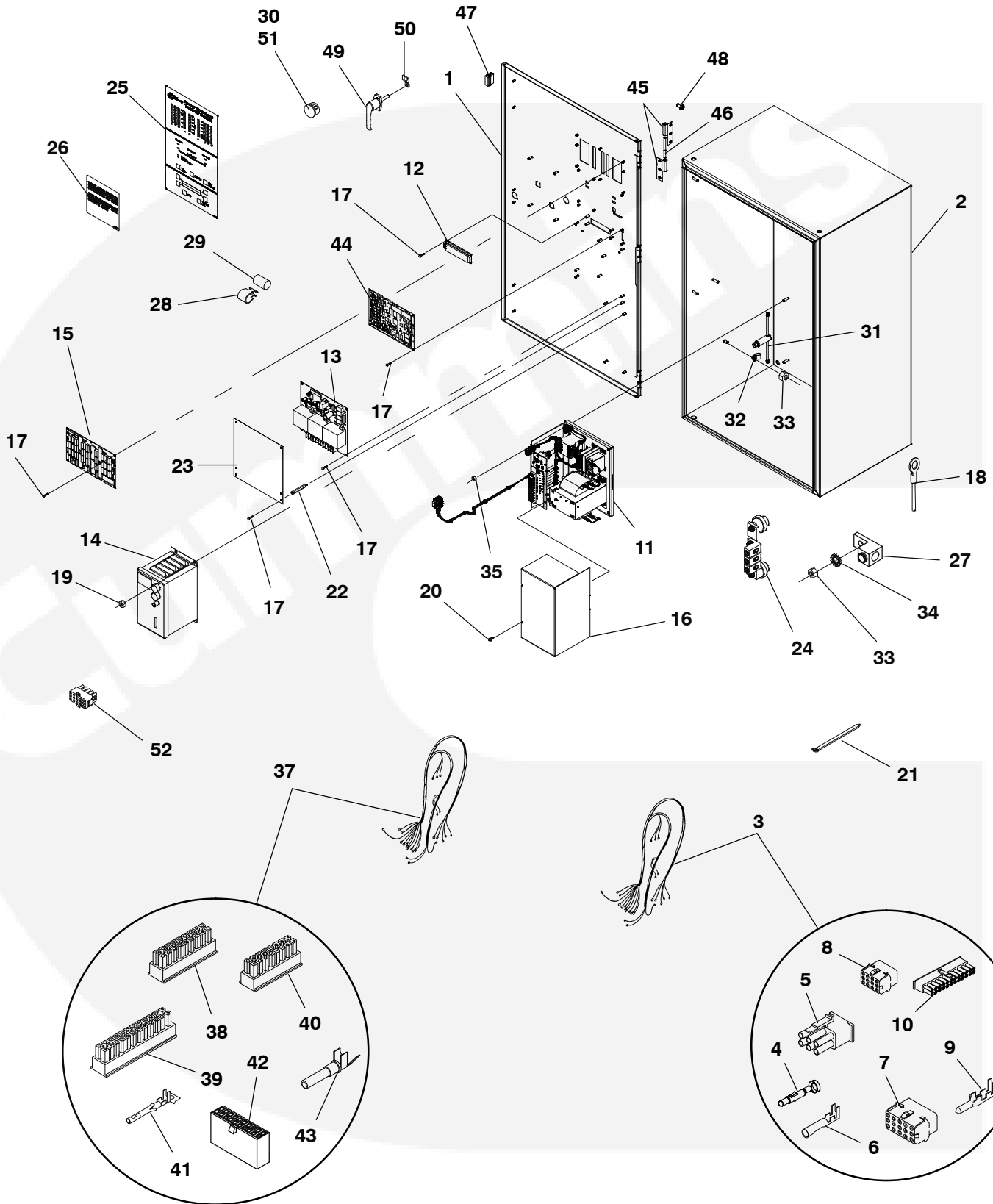


Cabinet

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Cabinet	22	870-2216	4	Standoff, Male Snap
	319-4796-02	1	300/400/600 Amp	23	306-4523	1	Cover, Printed Circuit Board
	319-5154-02	1	800 Amp	24			Bar Assembly, Neutral (See Separate Page for Components)
2			Cabinet, Type 1				Mechanical Lugs
	319-4794-02	1	300/400/600 Amp				300/400 Amp
	319-5150-02	1	800 Amp				600 Amp
3			Harness, Wiring – Main		337-3511-01	1	800 Amp
			(Includes Parts Marked +)		337-3511-02	1	
	338-3862	1	Level 1 Control		337-3644	1	
	338-3859	1	Level 2 Control				Compression Lugs
4	323-1199	A/R	+ Pin, Contact				300/400/600 Amp
5	323-1317	1	+ Plug, Connector (6 Place)		337-3574	1	3/8 and 5/16 Stud
6	323-1200	A/R	+ Contact, Socket		337-3575	1	1/2 Stud
7	323-1253	1	+ Cap, Circuit (15 Place)				800 Amp
8	323-1315	1	+ Cap, Connector (12 Place)		337-3650	1	3/8 Stud
9	323-1859	A/R	+ Contact, Socket		337-3648	1	1/2 Stud
10	323-1856	1	+ Plug, Circuit (20 Place)		337-3649	1	5/8 Stud
11			Panel, Power (See Separate Page for Components)	25			Membrane, Panel
	315-0842-01	1	120V				Type 1 Cabinet
	315-0842-02	1	190, 208, 220, 240, 440, and 480V		300-5185	1	Level 1 Control
					300-5186	1	Without Digital Display
	315-0842-03	1	380 and 416V				With Digital Display
	315-0842-04	1	600V				Level 2 Control
12	300-5151	1	Module, Digital Display		300-5186	1	Without Meters–Bar
13			Board, Printed Circuit – Power Module				Graph Display
			Level 1 Control		300-5271	1	With Meters–Bar Graph Display
	300-5148-01	1	120V				Type 3R, 4, and 12 Cabinets
	300-5148-02	1	208, 220, 240, 440, and 480V)				Level 1 Control
					300-5391	1	Without Digital Display
	300-5148-03	1	600V		300-5392	1	With Digital Display
	300-5148-04	1	190, 380, and 416V				Level 2 Control
			Level 2 Control		300-5392	1	Without Meters–Bar
	300-5149-01	1	120V				Graph Display
	300-5149-02	1	208, 220, 240, 440, and 480V)		300-5393	1	With Meters–Bar Graph Display
	300-5149-03	1	600V	26	098-7987	1	Label, Overlay
	300-5149-04	1	190, 380, and 416V				
14	—	1	Charger, Battery (See Separate Pages for Components)				
15	300-5180	1	Board, Printed Circuit – Bar Graph	+ –	Parts Included in Main Wiring Harness (338-3862 or 338-3859)		
16	315-0844-01	1	Cover, Power Panel	• –	Parts Included in Printed Circuit Board Harness (338-3866)		
17	815-0959-02	25	Screw, Pan Head (M3 x 7)	‡ –	Parts Included in Printed Circuit Board Harness (338-3858 and 338-3963)		
18	226-4798	1	Lead				
19	862-0026-53	4	Nut, Hex (M5)				
20	815-0792-02	2	Screw, Pan Head (M4 x 8)				
21	332-1794	1	Tie, Cable				

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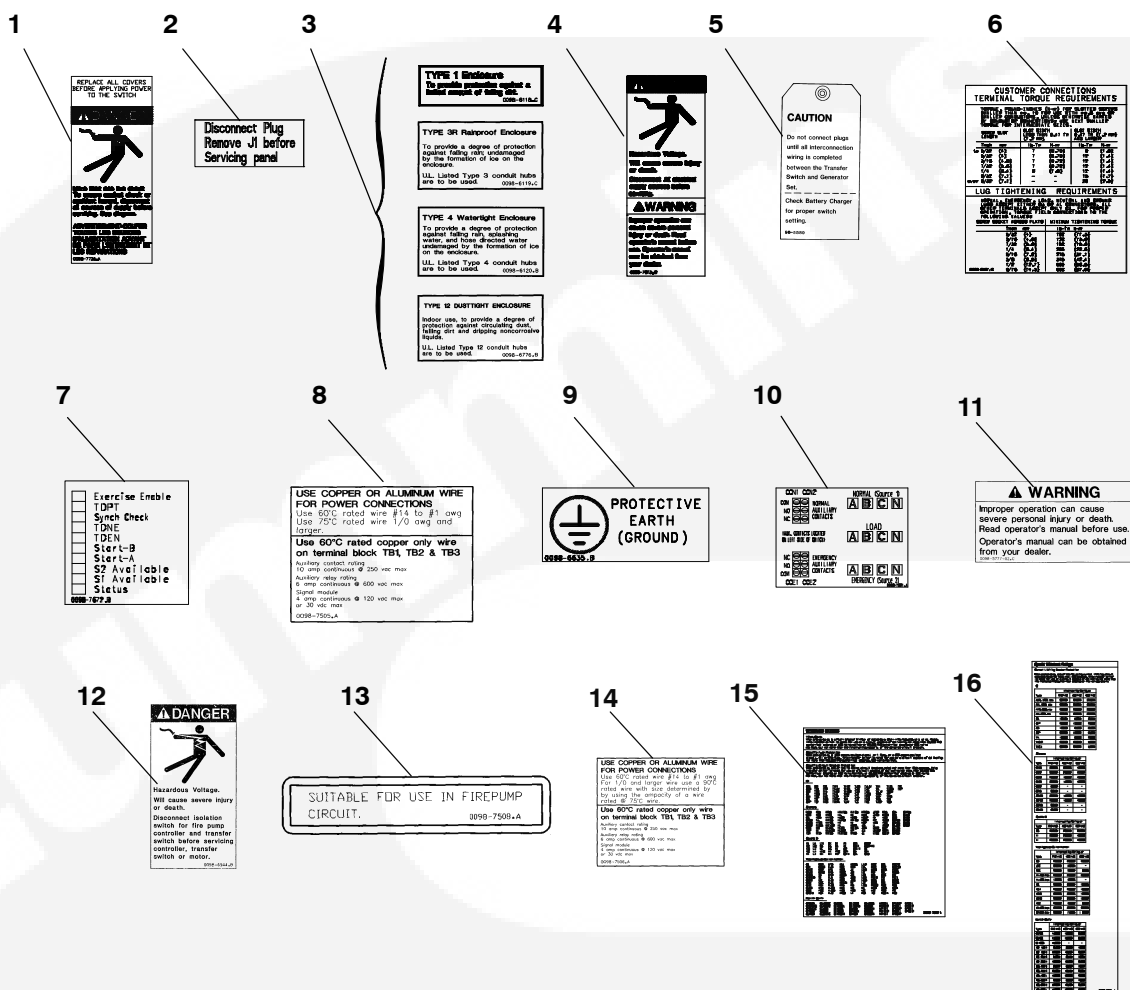
Cabinet



Cabinet

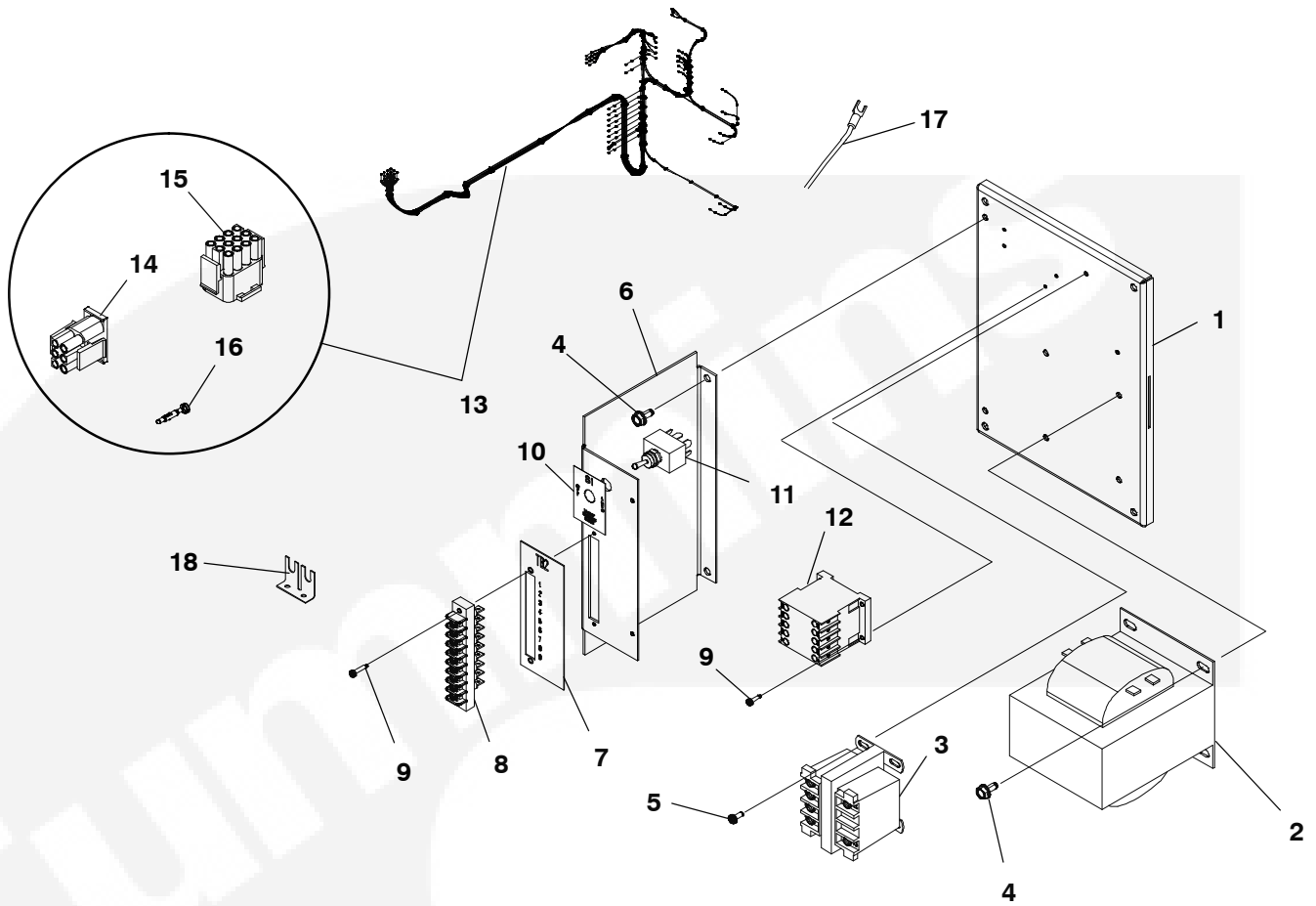
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
27			Lug, Solderless	38	323-1806-09	1	•‡ Connector (18 Pin)
	332-1473	3	5/16" – 300/400/600 Amp	39	323-1806-12	1	•‡ Connector (24 Pin)
	332-3653	3	3/8" – 800 Amp	40	323-1806-08	1	‡ Connector (16 Pin)
28	416-1049	2	Retainer, Battery	41	323-3606	A/R	•‡ Terminal, Receptacle
29	416-1048	2	Battery, Lithium	42	323-1857	1	•‡ Cap, Connector (20 Pin)
30			Plug, Hole (Models Without Front Panel Security)	43	323-1858	A/R	•‡ Pin, Contact
	517-0137	1	Type 1 Cabinet	44			Board, Printed Circuit – Digital Module
	517-0266	1	Type 3R, 4, and 12 Cabinets		300-5146	1	Level 1 Control
					300-5147-01	1	Level 2 Control
31	306-4690	1	Handle, Crank	45	406-0965	6	Blade, Lutoff Hinge
32	332-3874	1	Clamp, Loop	46	406-0966	3	Pin, Lutoff Hinge
33	860-2008	3	Nut, Hex Head (M8)	47	508-1186	3	Bumper
34	856-0008	3	Washer, Lock W/EIT (5/16")	48	818-0231-02	18	Rivet, Pop
35	870-2054	4	Nut, Locking – Hex Head (M6)	49	406-0809	1	Handle, Locking (Includes Hardware and 2 Keys)
36			Nut (M6)	50	406-0933	1	Latch, Cam
	860-2007	1	300/400/600 Amp	51	517-0135	6	Plug, Hole
	860-2007	2	800 Amp	52	323-1252	1	Plug, Circuit – 300/400/600 Amp
37			Harness, Printed Circuit Board				
	338-3866	1	Level 1 Control (Includes Parts Marked ➔)				
	338-3858	1	Utility-to-Utility and Level 2 Utility-to-Genset (Includes Parts Marked ‡)	+ –	Parts Included in Main Wiring Harness (338-3862 or 338-3859)		
				•–	Parts Included in Printed Circuit Board Harness (338-3866)		
	338-3863	1	Genset-to-Genset (Includes Parts Marked ‡)	‡ –	Parts Included in Printed Circuit Board Harness (338-3858 and 338-3963)		

Cabinet Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7735	2	Label, Danger	9	098-6635	1	Label, Ground
2	098-7275	1	Label, Plug	10	098-7921	1	Label, Customer Wiring Information
3			Label, Cabinet	11	098-5777-01	1	Label, Warning
	098-6118	1	Type 1 Cabinet	12	098-6944	1	Label, Fire Pump Danger
	098-6119	1	Type 3R Cabinet	13	098-7508	1	Label, Fire Pump Switch
	098-6120	1	Type 4 Cabinet	14	098-7506	1	Label, Customer Wiring
	098-6776	1	Type 12 Cabinet	15	098-7899	1	Label, Withstand Rating - 35,000 RMS
4	098-7613	1	Label, Danger	16	098-7901	1	Label, Information - Breaker - 1200 Amp
5	098-5589	1	Label, ATS Caution				
6	098-6367	1	Label, Torque				
7	098-7672	1	Label, Function				
8	098-7505	1	Label, Customer Wiring				

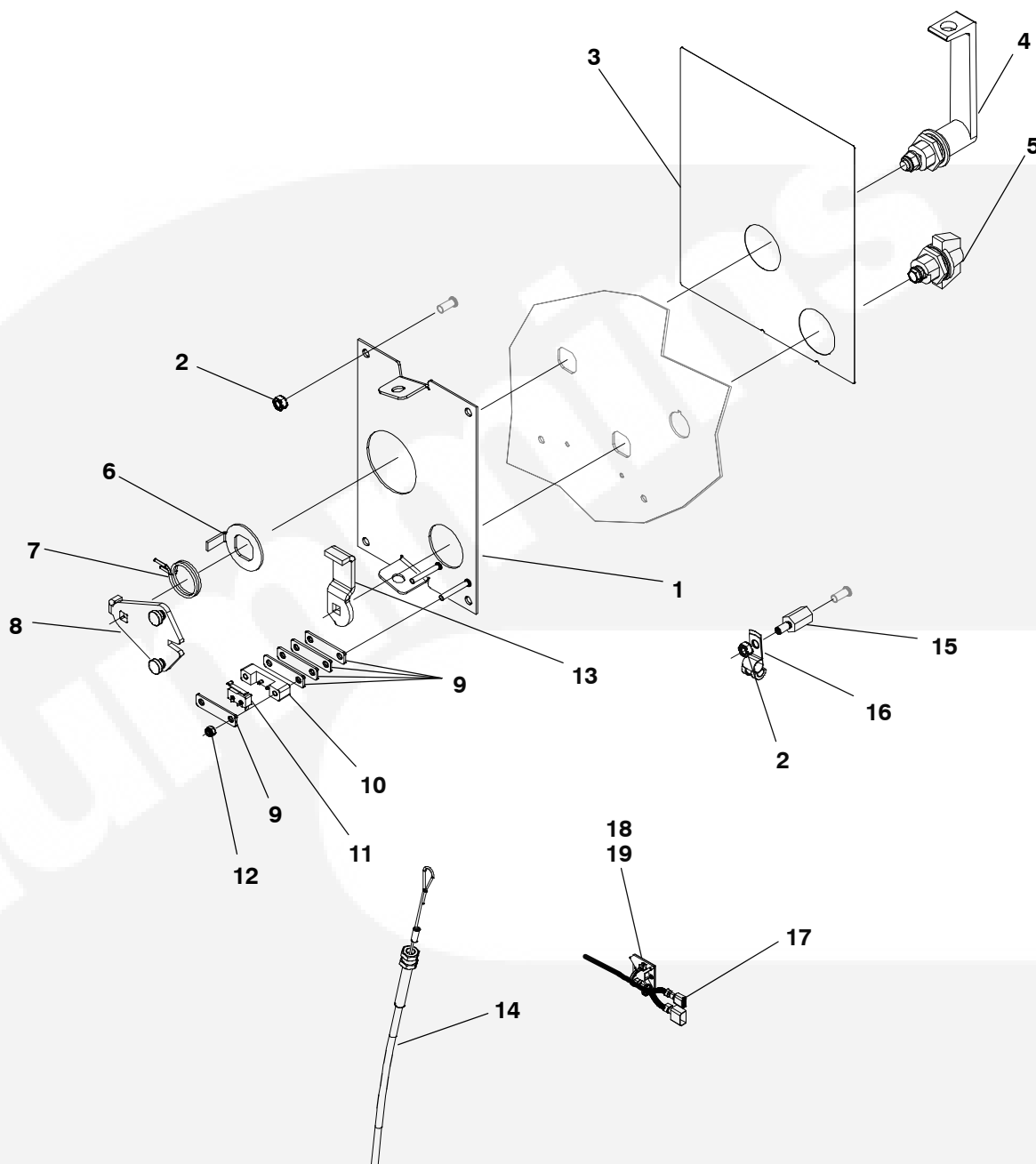
Power Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-0843-01	1	Bracket, Power Panel	7			Label, Information (TB2)
2	315-0838	1	Transformer, Power Panel	098-7889	1		Marked "1" thru "9"
	315-0848	1	190, 208, 220, 240, 380, 415, 440 and 480V 600V	098-7890	1		Marked "GND", "B+", and "RMT" for Genset 1 and Genset 2
3	315-0655-01	1	Transformer, Power Panel	098-7891	1		Marked "GND", "B+", "RMT", "RMT TEST", "XFER INH", "LD SHED", "COM", and "RXFER INH"
	315-0655-02	1	120V				
	315-0655-03	1	190, 208, 220, 240, 440 and 480V	8	332-3769	1	Block, Terminal (9 Place)
	315-0655-04	1	380, 415V	9	815-0959-07	4	Screw, Recessed Pan Head (M3 x .5mm)
4			Screw, Hex Head - Thread Forming (M6 x 1mm)	10	098-7643	1	Label, Motor Disconnect Switch
	815-0753	2	120V	11	308-0406	1	Switch, Toggle
	815-0753	6	All Except 120V	12	307-2875	1	Relay, Control (24 VAC)
5	815-0792-03	2	Screw, Pan Crescent Head (M4 x 0.7 x 10mm)				
6	315-0847-01	1	Bracket, Power Panel (Adapter Plug)				

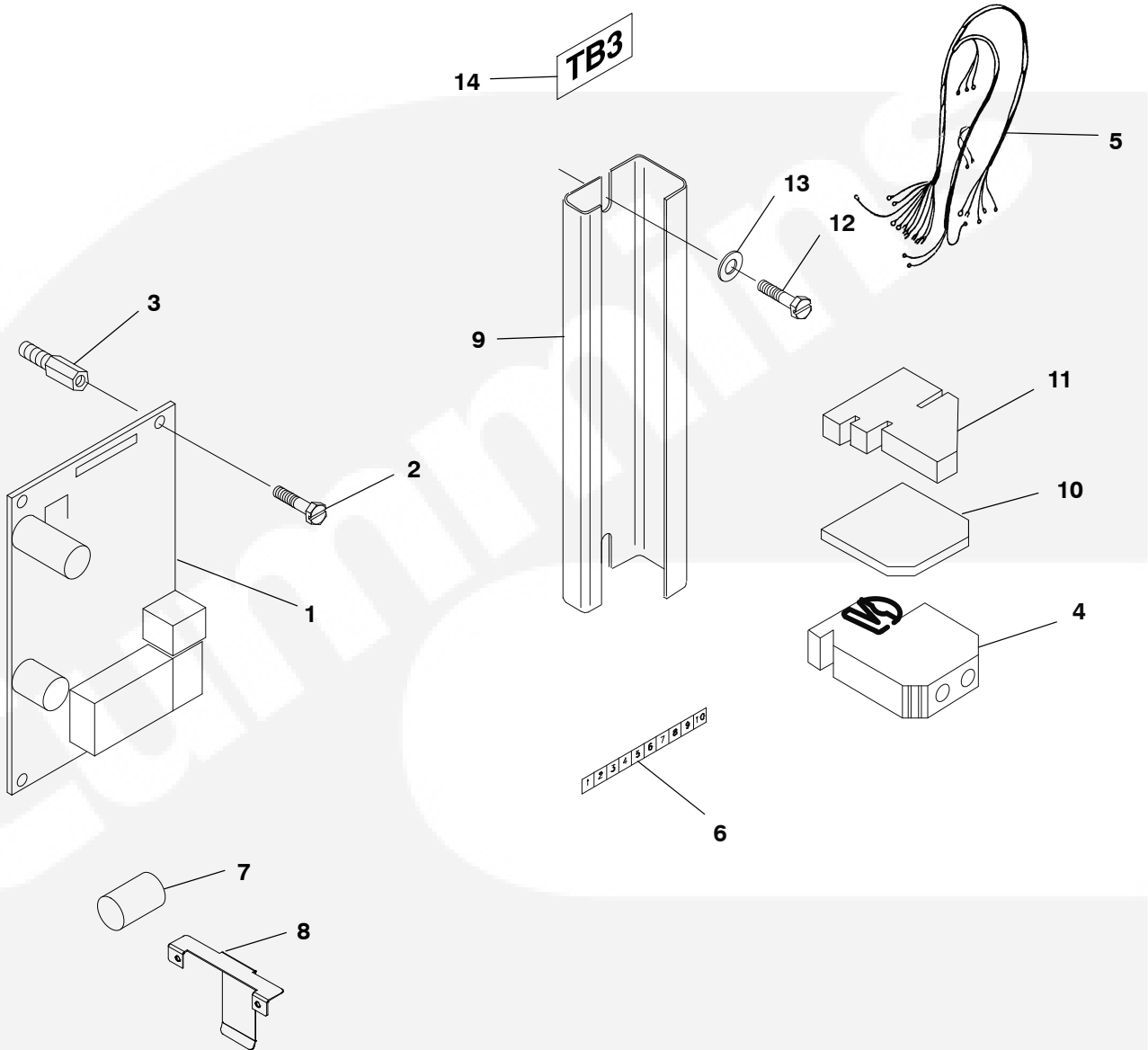
13		Harness, Wiring – Power	14	323–1317	1	* Plug, Connector
		Panel (Includes Parts	15	323–1314	1	* Plug
		Marked *) (P3 to K3 and T1,	16	323–1199	A/R	* Pin, Contact
		K3 to K3, T1, and T2, T1 to	17	226–4870	2	Lead – All Except 120V
		K3, T2 to K3, S1 to TB2, TB2	18	332–2605	1	Jumper, Terminal
		to GND, and P2 to TB2, S1,				
		and GND)				
338–3864	1	All Except 120V	* –	Parts Included in Power Panel Wiring Harness		
338–3865	1	120V		(338–3864 or 338–3865)		

External Manual Operator



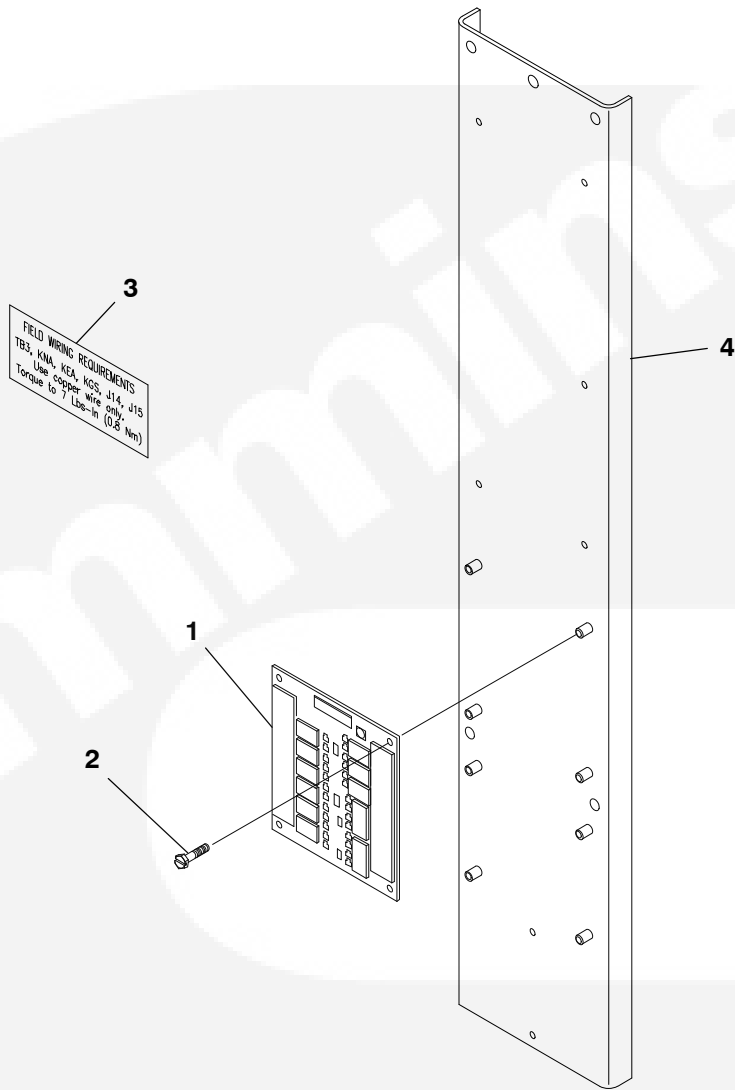
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-4686	1	Bracket, Panel	11	308-1099	1	Switch, Subminiature
2	870-0506	14	Nut, Nylon - Lock (M6 x 1)	12	870-2064-01	2	Nut, Nyloc
3	098-7967	1	Label, Information	13	306-4689	1	Bracket, Panel
4	406-1020	1	Handle, Door	14	335-0195-01	2	Cable
5	406-1021	1	Key, Lock	15	872-0012	4	Standoff
6	306-4688	1	Bracket, Panel	16	332-3874	10	Clamp, Cable
7	506-0004	1	Spring, Torsion	17	338-4305	1	Harness, Accessory
8	306-4699	1	Bracket, Handle	18	332-2420	1	Mount, Cable Tie
9	306-4653	5	Insulator, Limit Switch	19	332-0942	1	Tie, Cable
10	306-4578	1	Holder, Limit Switch				

Network Module



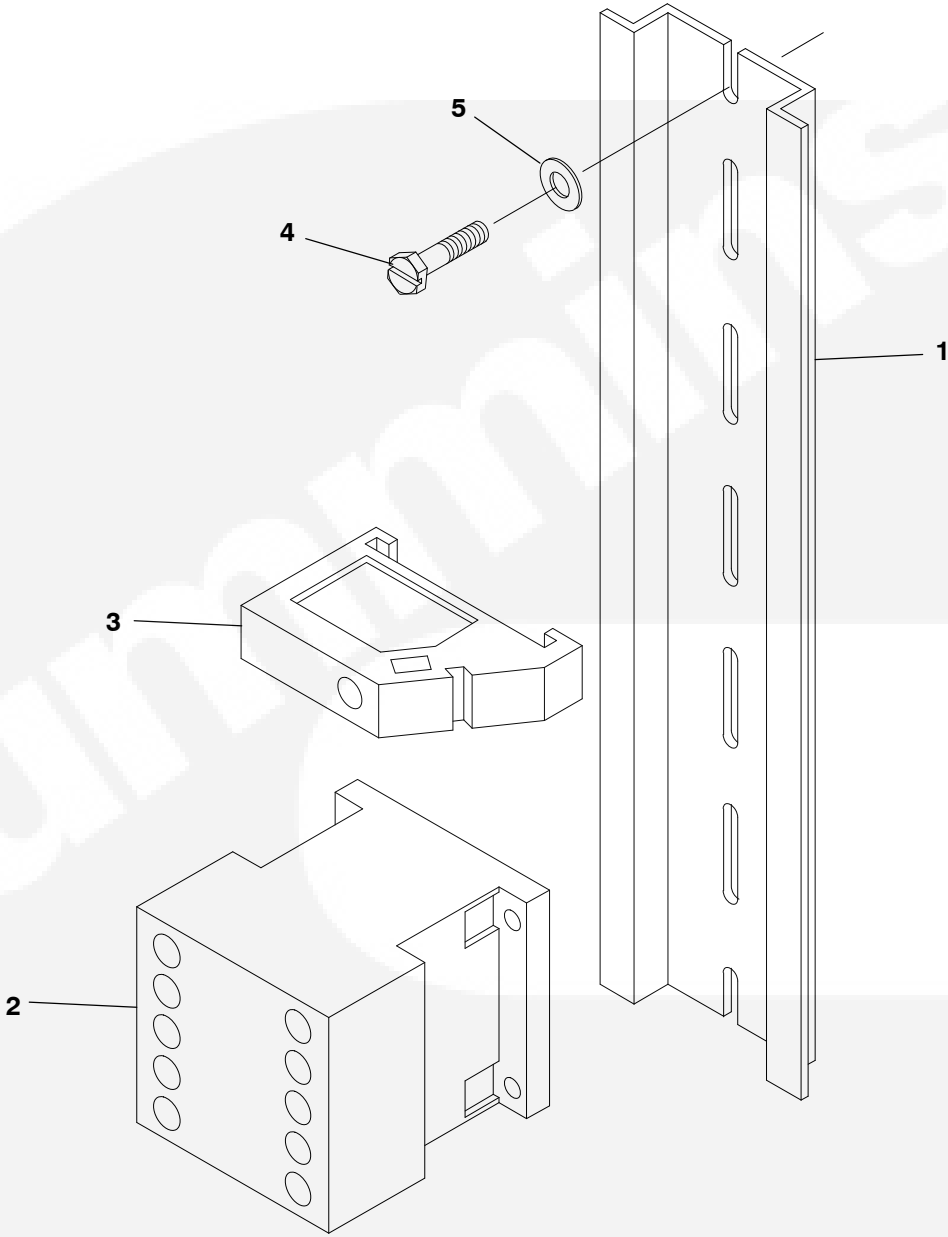
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Network Module	7	416-1048	2	Battery – Lithium (3.0V) (Purchase Locally)
	300-5153	1	TP-78	8	416-1179	1	Bracket, Battery
	327-1307	1	FTT-10	9	332-2837-09	1	Rail, Terminal Block
2	815-0959-03	4	Screw, Pan Head (M3 x 0.5 x 8)	10	332-2841	1	Plate, End – Terminal
3	870-2213-02	4	Standoff, Hex Thread (M3)	11	332-2839	2	Bracket, End – Terminal
4	332-2836-01	2	Block, Terminal (Sectional)	12	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10mm)
5	338-3886	1	Harness, Network (48" Long)	13	526-0003	2	Washer, Flat
6	332-2842-16	2	Tag, Terminal	14	098-5710	1	Label, Terminal Block (TB3)

Relay Module



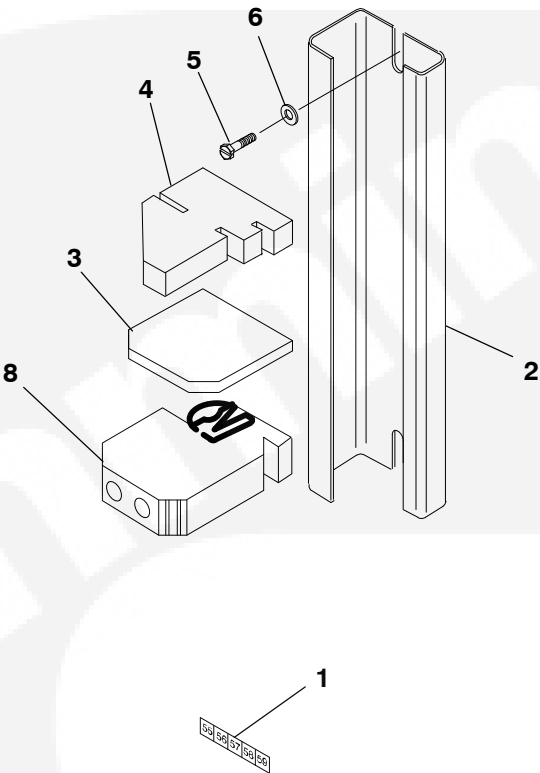
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5152	1	Board, Printed Circuit – Relay Module	3	098-7621	1	Label, Torque
2	815-0959-02	4	Screw, Pan Head (M3 x 7mm)	4	319-3943-01	1	Plate, Mounting

Auxiliary Relay
Utility-to-Genset and Genset-to-Genset Applications



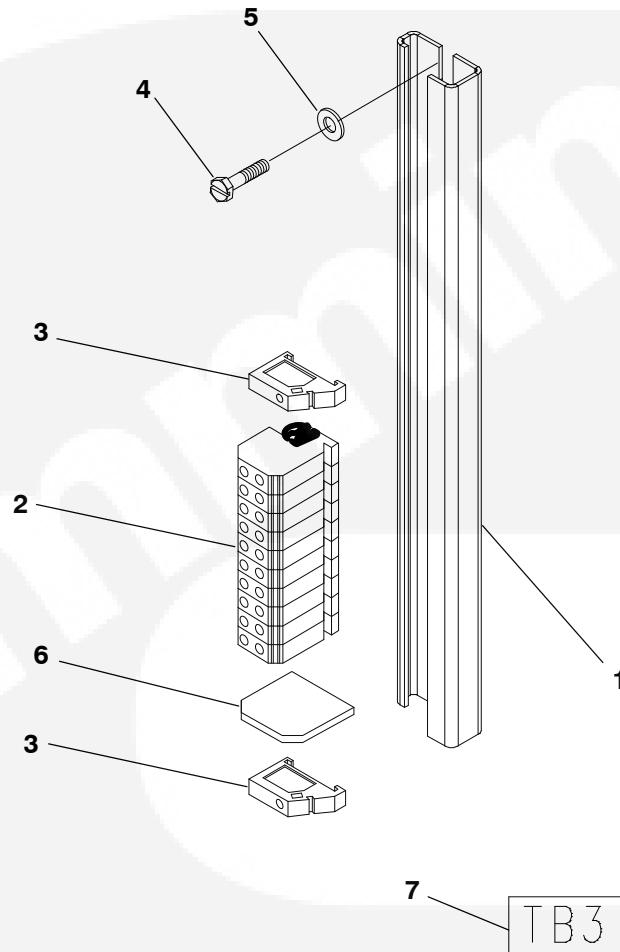
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-04	1	Rail, Terminal	3	332-2878	2	Bracket, End
2	307-2873	1	Relay, Control	4	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10mm)
	307-2874	1	12 VDC	5	526-0003	2	Washer, Flat
			24 VDC				

Dual Standby



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2842-16	2	Tag, Terminal	6	526-0003	2	Washer, Flat
2	332-2837-09	1	Rail, Terminal Block	7	098-5710	1	Label, Terminal Block (TB3)
3	332-2841	1	Plate, End – Terminal	8	332-2836-01	5	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End – Terminal				
5	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)				

Terminal Block

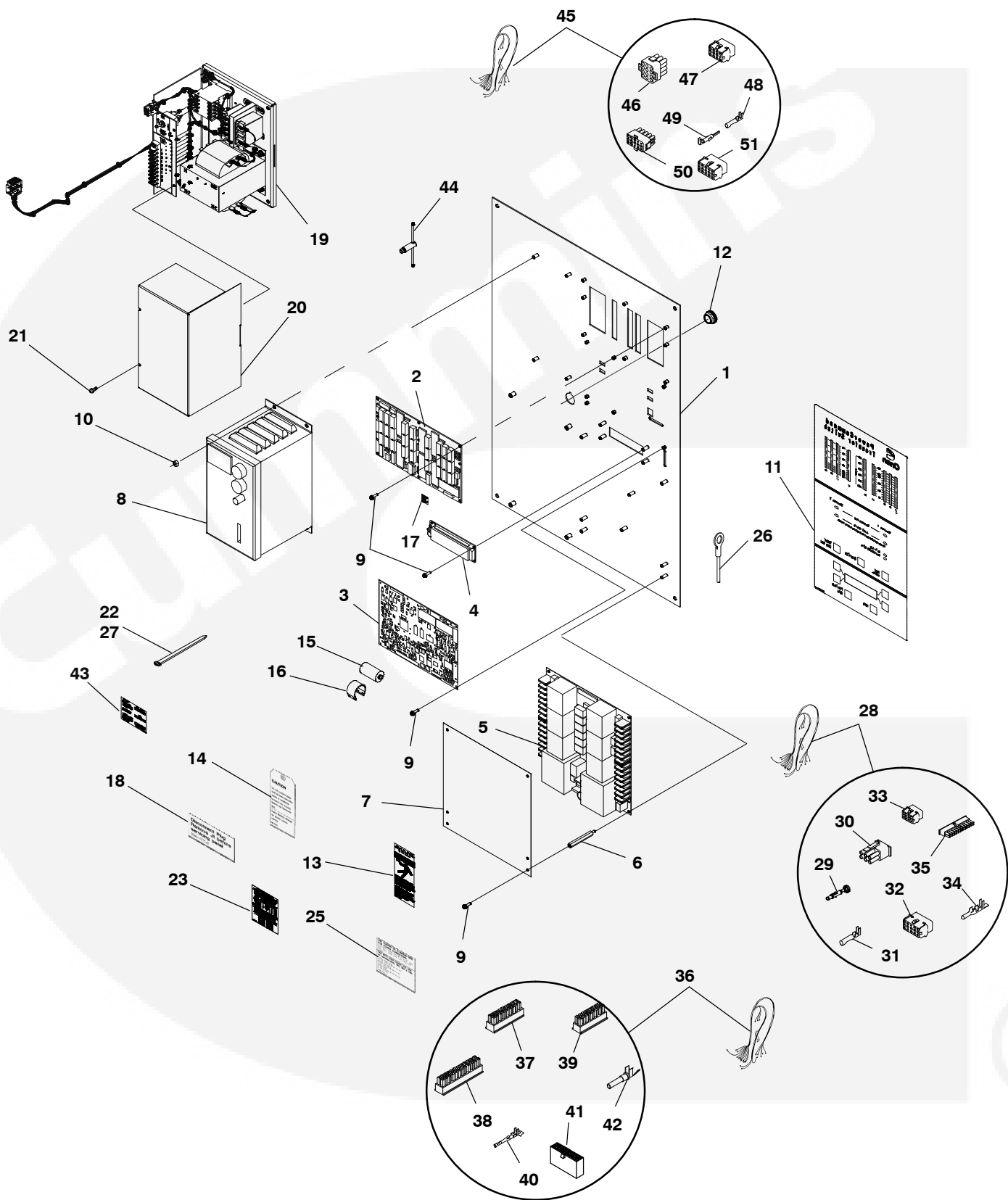


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block	5	526-0003	2	Washer, Flat
2	332-2836-02	3	Block, Terminal (Sectional)	6	332-2841	1	Plate, End - Terminal
3	332-2839	2	Bracket, End - Terminal	7	098-5710	1	Label, Terminal Block
4	815-0955-03	2	Screw, Cap - Hex Head - Phillips - GND (M4 x 10)				

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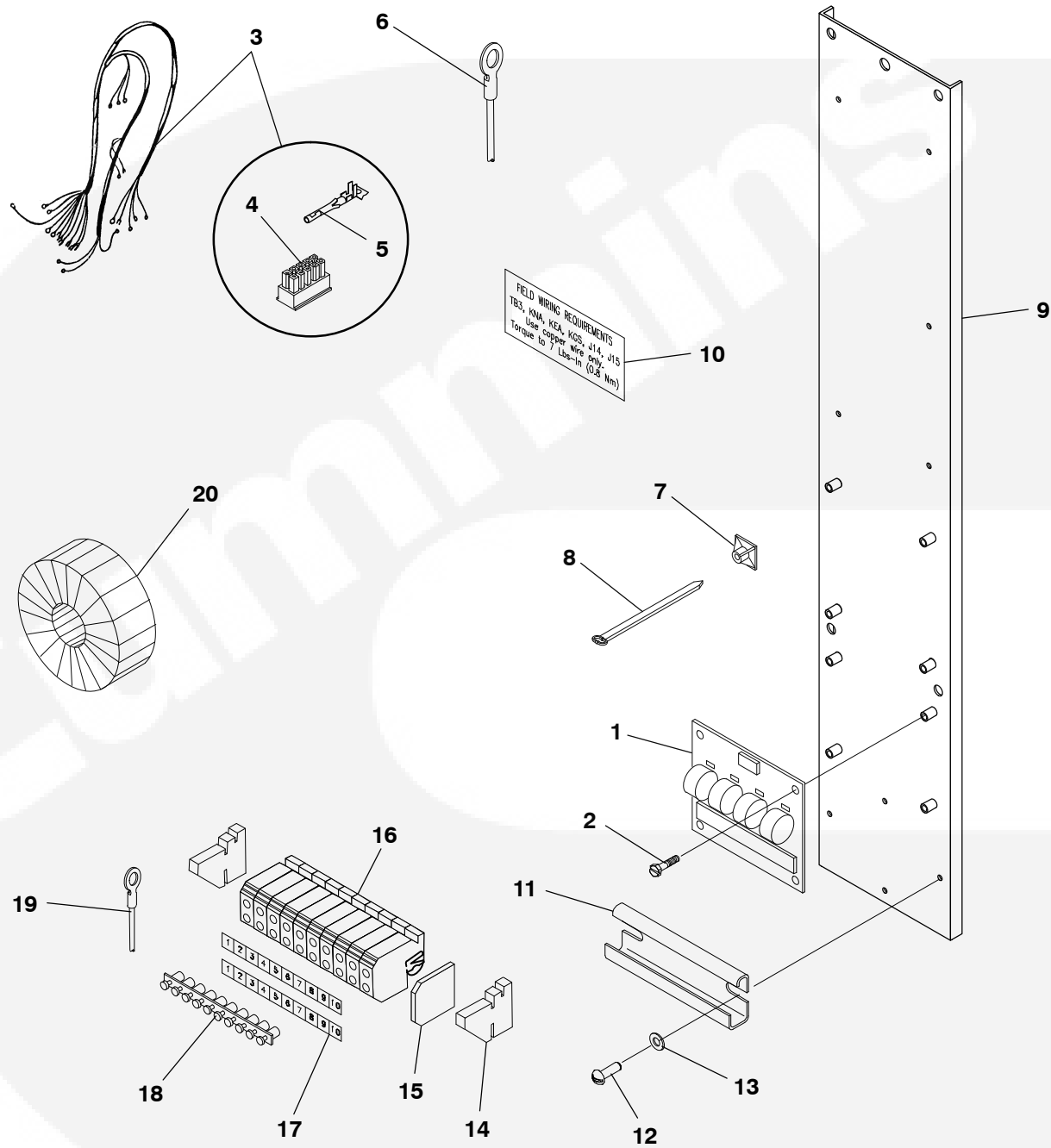
Open Construction



Open Construction

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4011-02	1	Plate, Open Construction	23	098-6367	1	Label, Torque
2	300-5180	1	Board, Printed Circuit – Bar Graph	24		1	Transfer Switch (Not Illustrated) (See Separate Page for Components)
3			Board, Printed Circuit – Digital Module	25	098-7505	1	Label, Customer Wiring
	300-5146	1	Level 1 Control	26	226-4798	1	Lead Assembly, ATS Sending
	300-5147-01	1	Level 2 Control	27	332-0942	A/R	Tie, Cable
4	300-5151	1	Module, Digital Display	28			Harness, Wiring – Main (Includes Parts Marked +)
5			Board, Printed Circuit – Power Module		338-3862	1	Level 1 Control
			Level 1 Control		338-3859	1	Level 2 Control
	300-5148-01	1	120V	29	323-1199	A/R	+ Pin, Contact
	300-5148-02	1	208, 220, 240, 440, and 480V)	30	323-1317	1	+ Plug, Connector (6 Place)
	300-5148-03	1	600V	31	323-1200	A/R	+ Contact, Socket
	300-5148-04	1	190, 380, and 416V	32	323-1253	1	+ Cap, Circuit (15 Place)
			Level 2 Control	33	323-1315	1	+ Cap, Connector (12 Place)
	300-5149-01	1	120V	34	323-1859	A/R	+ Contact, Socket
	300-5149-02	1	208, 220, 240, 440, and 480V)	35	323-1856	1	+ Plug, Circuit (20 Place)
	300-5149-03	1	600V	36			Harness, Printed Circuit Board
	300-5149-04	1	190, 380, and 416V		338-3866	1	Level 1 Control (Includes Parts Marked ➔)
6	870-2216	4	Standoff, Male Snap		338-3858	1	Utility-to-Utility and Level 2 Utility-to-Genset (Includes Parts Marked ‡)
7	306-4523	1	Cover, Printed Circuit Board				Genset-to-Genset (Includes Parts Marked ‡)
8		1	Charger, Battery (See Separate Page for Components)		338-3863	1	
9	815-0959-02	23	Screw, Pan Head – Cross-Recessed (M3 x 7mm)	37	323-1806-09	1	•‡ Connector (18 Pin)
10	862-0026-53	4	Nut, Hex (M5)	38	323-1806-12	1	•‡ Connector (24 Pin)
11			Membrane, Panel	39	323-1806-08	1	‡ Connector (16 Pin)
			Level 1 Control	40	323-3606	A/R	•‡ Terminal, Receptacle
	300-5391	1	Without Digital Display	41	323-1857	1	•‡ Cap, Connector (20 Pin)
	300-5392	1	With Digital Display	42	323-1858	A/R	•‡ Pin, Contact
			Level 2 Control	43	098-7921	1	Label, Customer Wiring
	300-5392	1	Without Meters–Bar Graph Display	44	306-4690	1	Handle, Crank
	300-5393	1	With Meters–Bar Graph Display	45			Harness, Wiring – Extension (48" Long)
12	517-0266	1	Plug, Hole		338-2219	1	P2 to J2 (Includes Parts Marked *)
13	098-7735	2	Label, Cover (Danger)		338-2220	1	P1 to J2 (Includes Parts Marked ‡)
14	098-5589	1	Tag, Caution	46	323-1314	1	* Plug, Connector (12 Pin)
15	416-1048	2	Battery, Lithium – 3V	47	323-1315	1	* Cap, Connector (12 Pin)
16	416-1049	2	Retainer, Battery	48	323-1200	A/R	*‡ Socket, Contact
17	098-7672	1	Label, Function	49	323-1199	A/R	*‡ Pin, Contact
18	098-7275	1	Label, Plug	50	323-1252	1	‡ Plug, Connector (15 Pin)
19			Panel, Power (See Separate Page for Components)	51	323-1253	1	‡ Cap, Connector (15 Pin)
	315-0842-01	1	120V	+ –	Parts Included in Main Wiring Harness (338-3862 or 338-3859)		
	315-0842-02	1	190, 208, 220, 240, 440, and 480V	• –	Parts Included in Printed Circuit Board Harness (338-3866)		
	315-0842-03	1	380 and 416V	‡ –	Parts Included in Printed Circuit Board Harness (338-3858)		
	315-0842-04	1	600V	* –	Parts Included in Extension Wiring Harness (338-2219)		
20	315-0844-01	1	Cover, Power Panel	‡ –	Parts Included in Extension Wiring Harness (338-2220)		
21	815-0792-02	2	Screw, Pan Head (M4 x 8mm)				
22	332-1794	1	Tie, Cable				

Current Module

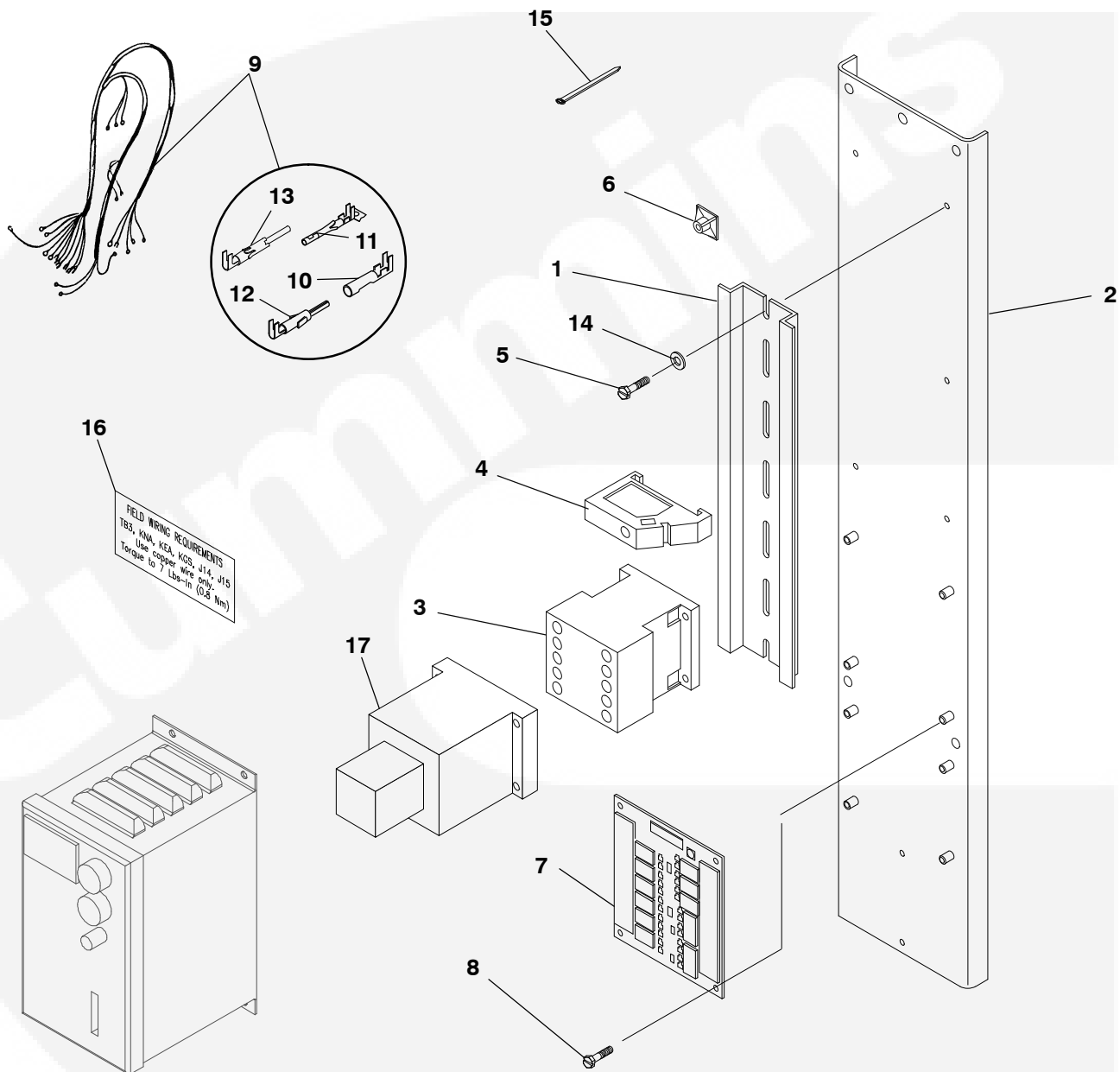


Current Module

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	19			Leads (4")
2	815-0959-02	4	Screw, Pan Head (M3 x 7mm)	226-4814-01	1		Marked J40-1, TB4-2
3	338-3884-01	1	Harness, Wiring – Current Module (Includes Parts Marked *)	226-4814-02	1		Marked J40-2, TB4-3
4	323-1806-05	2	* Connector, Receptacle (10 Pin)	226-4814-03	1		Marked J40-5, TB4-4
5	332-3606	20	* Socket, Contact	226-4814-04	1		Marked J40-6, TB4-5
6	226-4794-03	1	Lead – 15" (Marked J40-14, GND)	226-4814-05	1		Marked J40-9, TB4-6
7	332-2420	A/R	Mount, Cable Tie	226-4814-06	1		Marked J40-10, TB4-7
8	332-0942	A/R	Tie, Cable	226-4814-07	1		Marked J40-13, TB4-8
9	319-3943-01	1	Plate, Mounting	226-4814-08	1		Marked J40-14, TB4-9
10	098-7621	1	Label, Torque	20			Transformer, Current
11	332-2837-11	1	Rail, Terminal				300 Amp
12	815-0955-03	2	Screw, Cap – Hex Head Ground (M4 x 10mm)	302-1394	2		120 VAC
13	526-0003	2	Washer, Flat	302-1394	3		1 Phase, 2 or 3 Wire
14	332-2839	2	Bracket, End – Terminal	302-1394	4		3 Phase, 3 or 4 Wire
15	332-2841	1	Plate, Terminal – End				400 Amp
16	332-2836-02	1	Block, Terminal – Sectional	302-1809	2		120 VAC
17	332-2842-11	2	Tag, Terminal (1-10)	302-1809	3		1 Phase, 2 or 3 Wire
18	332-2843-04	1	Jumper, Terminal – 10 Pole	302-1809	4		3 Phase, 3 or 4 Wire
							600 Amp
							120 VAC
							1 Phase, 2 or 3 Wire
							3 Phase, 3 or 4 Wire
							800 Amp
							120 VAC
							1 Phase, 2 or 3 Wire
							3 Phase, 3 or 4 Wire

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

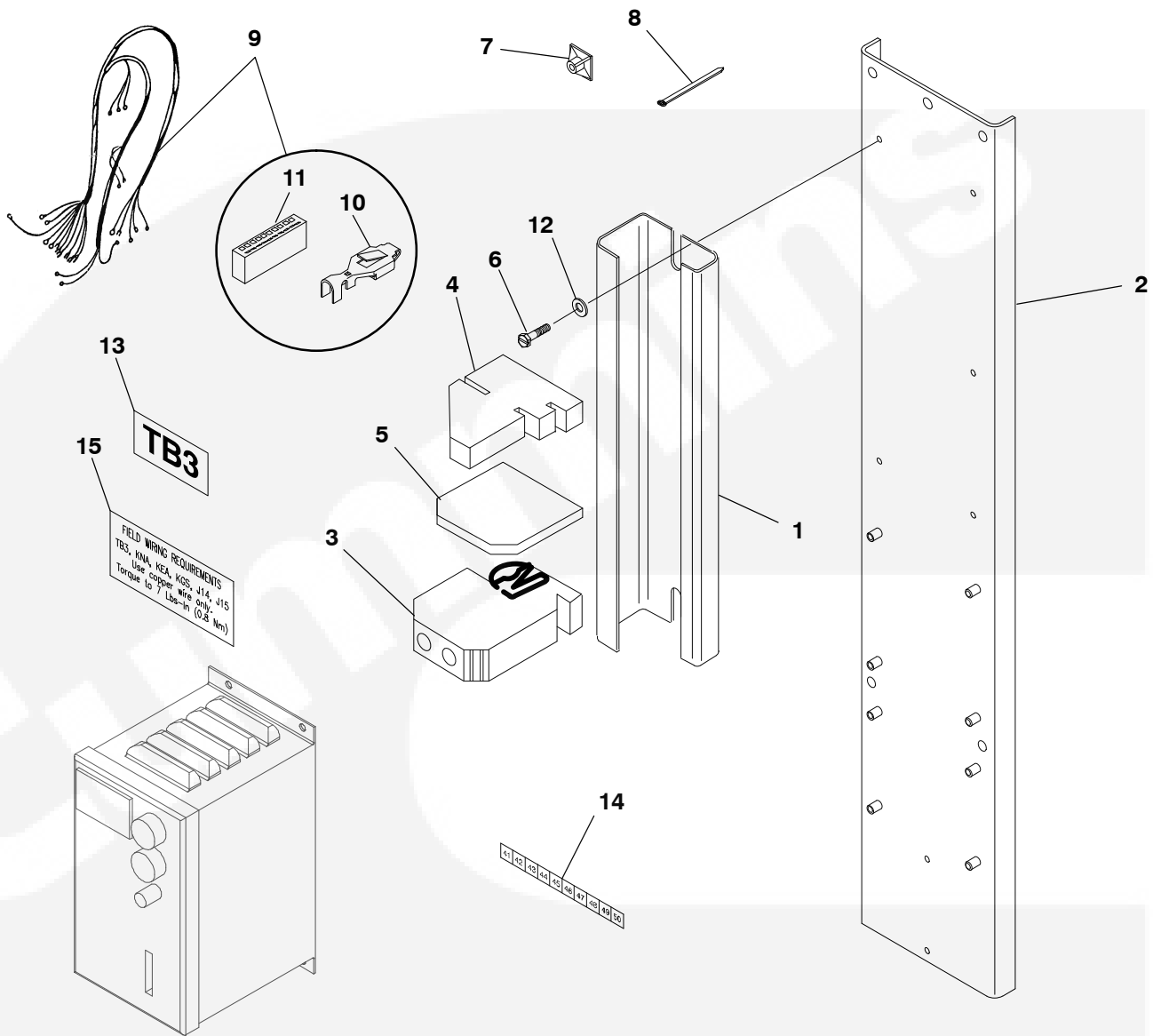
Wiring Harness Battery Charger (Generator Set to Generator Set)



**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	10	323-1200	2	* Socket, Contact
2	319-3943-01	1	Plate, Mounting	11	332-3606	1	* Socket, Contact
3	307-2873	1	Relay, Control (12 VDC)	12	323-1199	2	* Pin, Contact
4	332-2878	2	Bracket, End	13	323-1703	2	* Pin, Contact
5	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)	14	526-0003	2	Washer, Flat
6	332-2420	2	Mount, Cable Tie	15	332-0942	A/R	Tie, Cable
7	300-5152	1	Board, Printed Circuit – Relay Module	16	098-7621	1	Label, Torque
8	815-0959-02	4	Screw, Cross Recessed – Pan Head (M3 x 0.5 x 7)	17	307-2861-12	1	Relay, Control
9	338-3836	1	Harness, Battery Charger (Includes Parts Marked *)	* – Parts Included in 338-3836 Wiring Harness			

Battery Charger Alarm

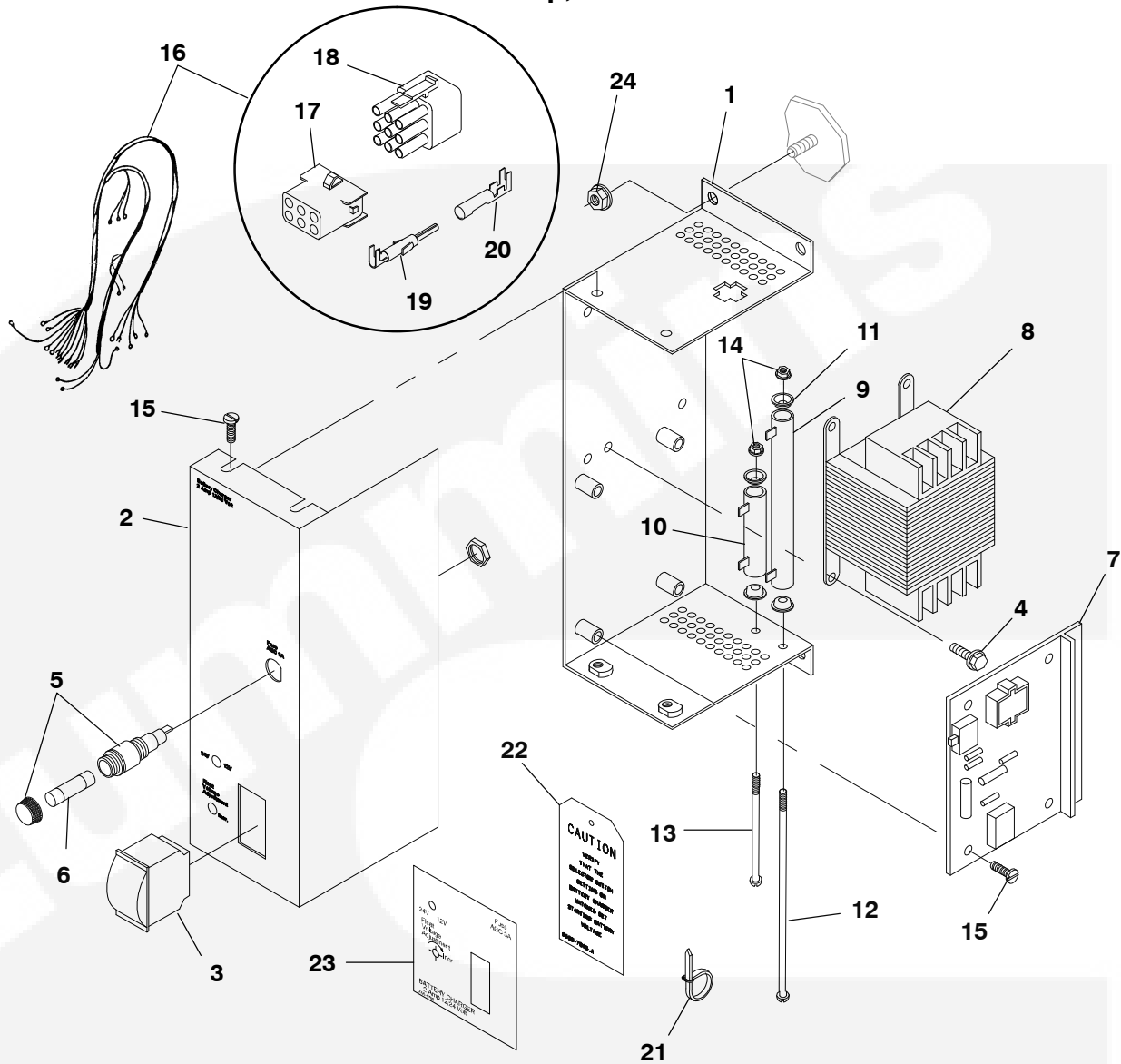


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
7	332-2420	A/R	Mount, Cable Tie
8	332-0942	A/R	Tie, Cable
9	338-2350	1	Harness, Alarm (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	323-1302	9	* Pin, Contact (J2)
11	323-1374-10	1	* Housing, Connector (10 Pin) (J2)
12	526-0003	2	Washer, Flat
13	098-5710	1	Label, Terminal Block (TB3)
14	332-2842-15	1	Tag, Terminal
15	098-7621	1	Label, Torque

* - Parts Included in 338-2350 Wiring Harness

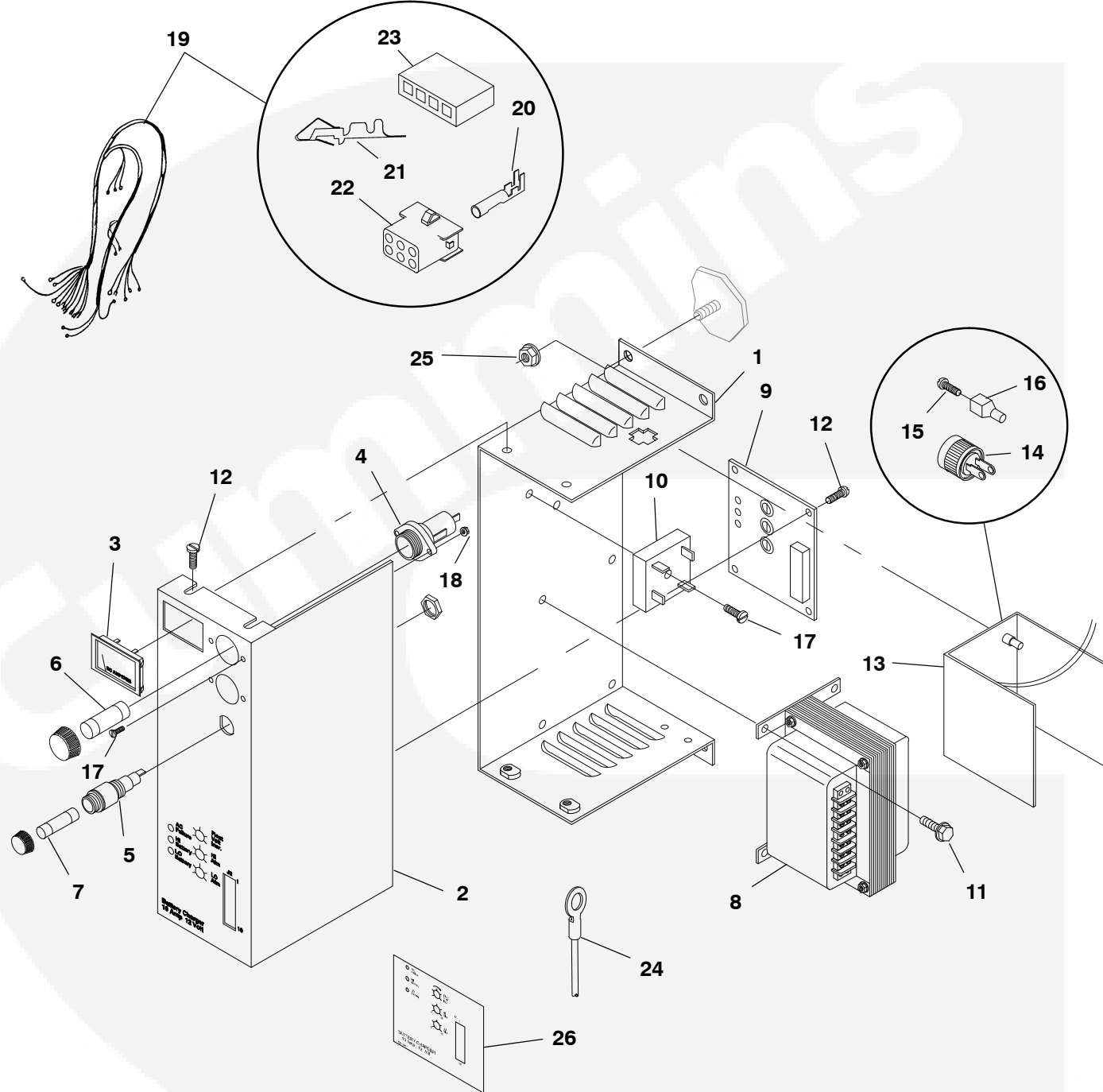
Battery Charger 2 Amp, 12/24 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9990	1	Wrapper, Charger – Battery	13	813-0112	1	Screw, Machine – Round Head (#10-32 x 2-1/2)
2	301-9991	1	Cover, Charger – Battery	14	870-0131	2	Nut, Hex – W/ET (#10-32)
3	302-0807	1	Ammeter, DC	15	815-0902	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
4	821-0040	4	Screw, Machine – Locking Head Slotted (#10-32 x 5/16)	16	338-2149	1	Harness, Wiring (Includes Parts Marked *)
5	321-0175	1	Holder, Fuse	17	323-1318	1	* Cap, 6 pin (J6)
6	321-0153	1	Fuse, 3 Amp	18	323-1291	1	* Plug, 9 pin (P9)
7	300-2946	1	Board, Printed Circuit	19	323-1199	A/R	* Pin, Terminal
8			Transformer	20	323-1200	A/R	* Socket, Terminal
	315-0621-01	1	120 Volt	21	332-1794	A/R	* Tie, Cable
	315-0621-02	1	208/240/480 Volt	22	098-7843	1	Tag, Caution
	315-0621-03	1	380/416 Volt	23	098-5708	1	Label, Charger
	315-0621-04	1	600 Volt	24	862-0026-53	4	Nut, Hex (M5)
9	304-0037	1	Resistor, Fixed				
10	304-0139	1	Resistor, Fixed				
11	304-0015	4	Washer, Centering (7/32")				
12	813-0116	1	Screw, Machine – Round Head (#10-32 x 6-1/2)				

* – Parts Included in 338-2149 Wiring Harness

Battery Charger
10 Amp, 12 Volt



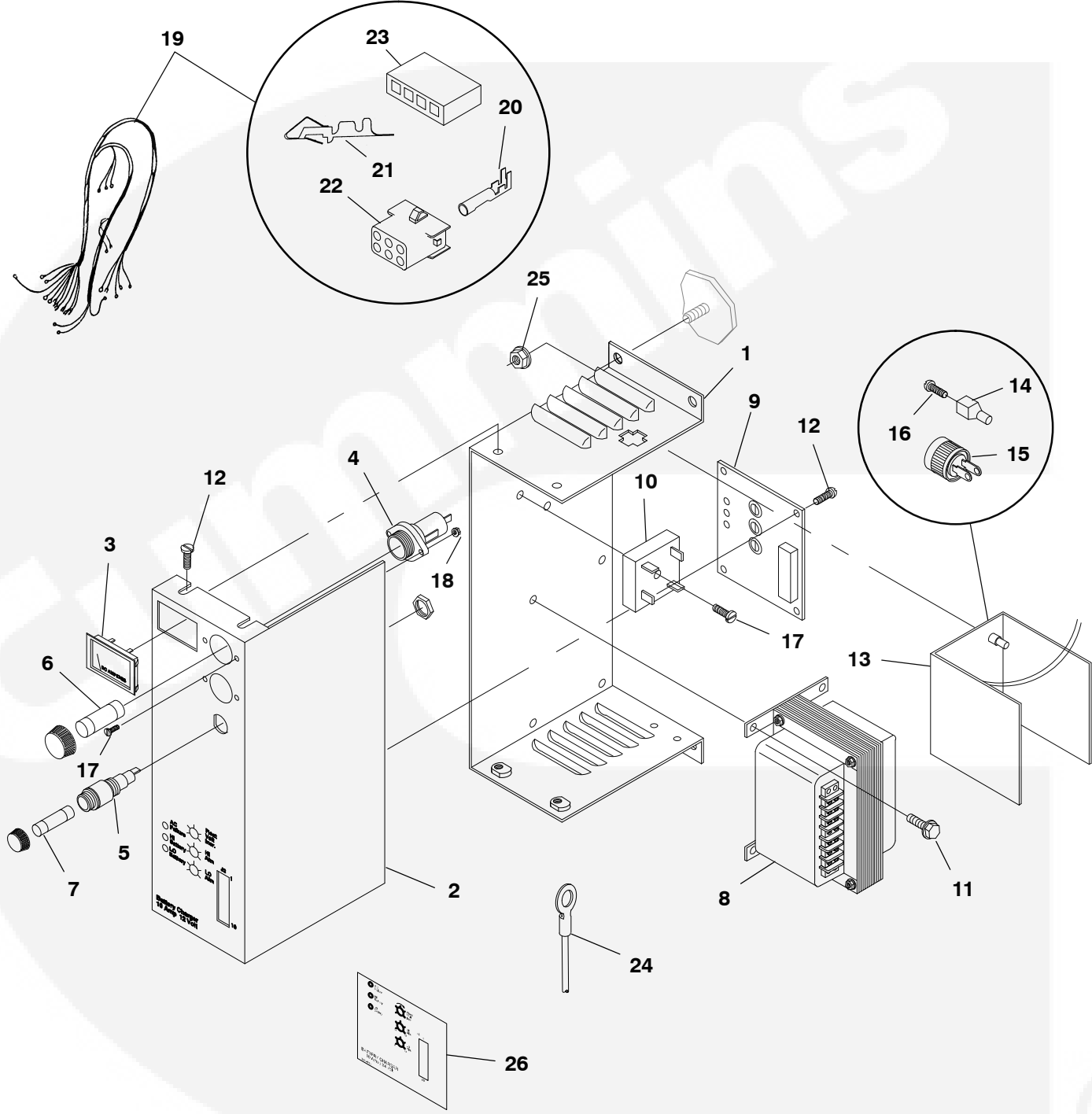
Battery Charger 10 Amp, 12 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery	9	300-3160	1	Board, Printed Circuit – Battery Charger
2	319-0073	1	Cover, Charger – Battery	10	305-0653	1	Rectifier, Bridge
3	302-1844	1	Ammeter, DC	11	821-0040	4	Screw, Machine – Locking Head (#10-32 x 5/16)
4	321-0237	2	Holder, Fuse (AC Input)	12	815-0902	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
5	321-0175	1	Holder, Fuse (DC Output)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
6			Fuse	14	364-0003	1	* Rectifier, Gate (SCR)
			50 Hertz	15	809-0035	4	* Screw, Sheet Metal – Round Head (#8 x 3/4)
	321-0304-01	2	416/440 Volt (1 Amp Fuse)	16	870-0263	4	* Nut, Insulated (#8)
	321-0304-02	2	380 Volt (1.5 Amp Fuse)	17	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
	321-0304-03	2	240 Volt (2 Amp Fuse)	18	870-0221	5	Nut, Hex – W/ET (#8-32)
	321-0304-04	2	220 Volt (2.5 Amp Fuse)	19	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
			60 Hertz	20	323-1200	A/R	# Socket, Terminal
	321-0304-01	2	480 Volt (1 Amp Fuse)	21	323-1302	A/R	# Pin, Terminal
	321-0304-02	2	380 Volt (1.5 Amp Fuse)	22	323-1318	1	# Cap, 6 Pin
	321-0304-03	2	240 Volt (2 Amp Fuse)	23	323-1374-05	1	# Plug, 5 Pin
	321-0304-04	2	208 Volt (2.5 Amp Fuse)	24	226-3554-02	1	Lead (Quantity Used as Required)
	321-0304-05	2	120 Volt (4.5 Amp Fuse)	25	862-0026-53	4	Nut, Hex (M5)
	321-0303-02	2	600 Volt (2.5 Amp Fuse)	26	098-5808	1	Label, Charger
7	321-0127	1	Fuse (15 Amp)				
8			Transformer				
			50 Hertz				
	315-0702	1	380 Volt				
	315-0704	1	220/416/440 Volt				
	315-0712	1	240 Volt				
			60 Hertz				
	315-0700	1	120/208/240 Volt				
	315-0706	1	380 Volt				
	315-0708	1	480 Volt				
	315-0710	1	600 Volt				

* – Parts Included in 305-0781 Rectifier Assembly

– Parts Included in 338-2223 Wiring Harness

Battery Charger
10 Amp, 24 Volt



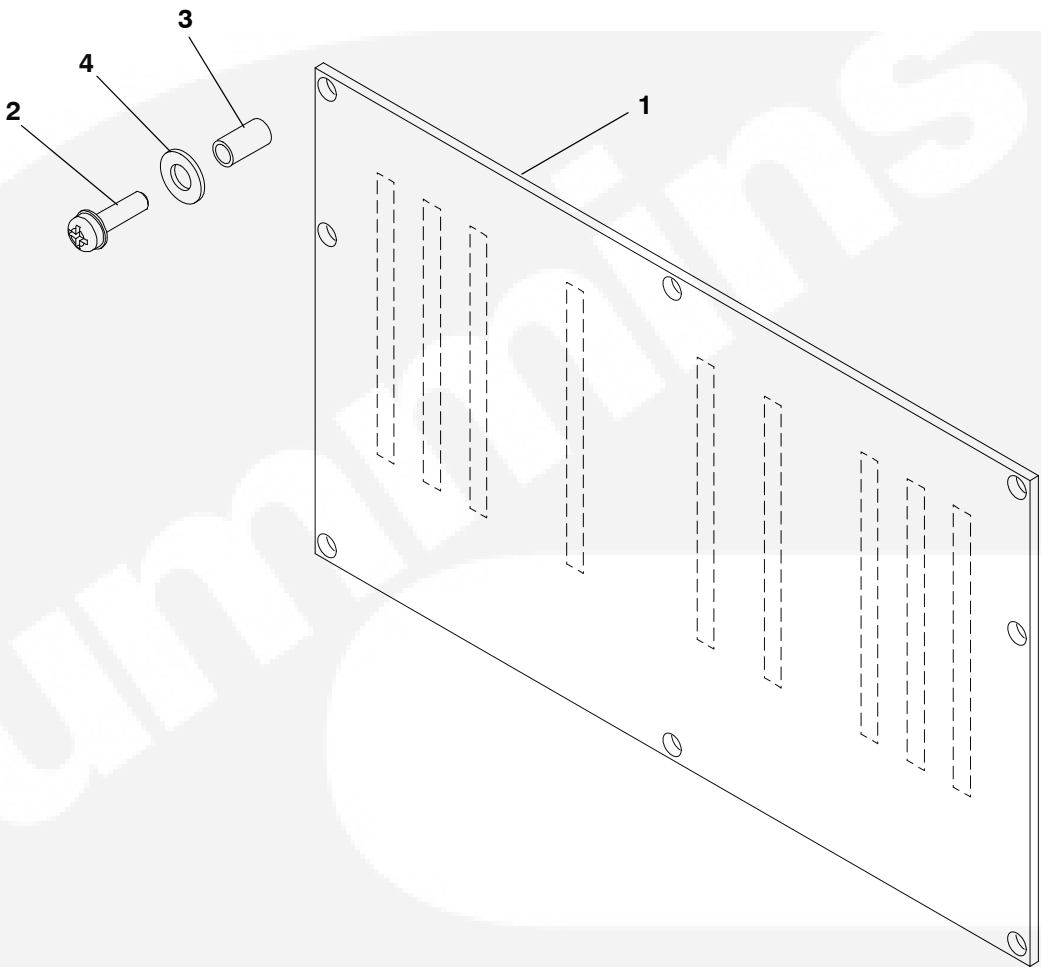
Battery Charger 10 Amp, 24 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery	10	305-0653	1	Rectifier, Bridge
2	319-0073	1	Cover, Charger – Battery	11	821-0040	4	Screw, Machine – Locking Head (#10-32 x 5/16)
3	302-1844	1	Ammeter, DC	12	815-0902	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
4	321-0237	2	Holder, Fuse (AC Input)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
5	321-0175	1	Holder, Fuse (DC Output)	14	870-0263	4	* Nut, Insulated (#8)
6			Fuse	15	364-0003	1	* Rectifier, Gate (SCR)
			50 Hertz	16	809-0035	4	* Screw, Sheet Metal – Round Head (#8 x 3/4)
	321-0304-04	2	380/416/440 Volt (2.5 Amp Fuse)	17	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
	321-0304-05	2	240 Volt (4.5 Amp Fuse)	18	870-0221	5	Nut, Hex – W/ET (#8-32)
	321-0304-06	2	220 Volt (5 Amp Fuse)	19	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
			60 Hertz	20	323-1200	A/R	# Socket, Terminal
	321-0303-02	2	600 Volt (2.5 Amp Fuse)	21	323-1302	A/R	# Pin, Terminal
	321-0304-03	2	480 Volt (2 Amp Fuse)	22	323-1318	1	# Cap, 6 Pin
	321-0304-04	2	380 Volt (2.5 Amp Fuse)	23	323-1374-05	1	# Plug, 5 Pin
	321-0304-05	2	240 Volt (4.5 Amp Fuse)	24	226-3554-02	1	Lead (Quantity Used as Required)
	321-0304-06	2	120/208 Volt (5 Amp Fuse)	25	862-0026-53	4	Nut, Hex (M5)
7	321-0127	1	Fuse (15 Amp)	26	098-5797	1	Label, Charger
8			Transformer				
			50 Hertz				
	315-0705	1	220/416/440 Volt				
	315-0703	1	380 Volt				
	315-0713	1	240 Volt				
			60 Hertz				
	315-0701	1	120/208/240 Volt				
	315-0707	1	380 Volt				
	315-0709	1	480 Volt				
	315-0711	1	600 Volt				
9	300-3244	1	Board, Printed Circuit – Battery Charger				

* – Parts Included in 305-0781 Rectifier Assembly

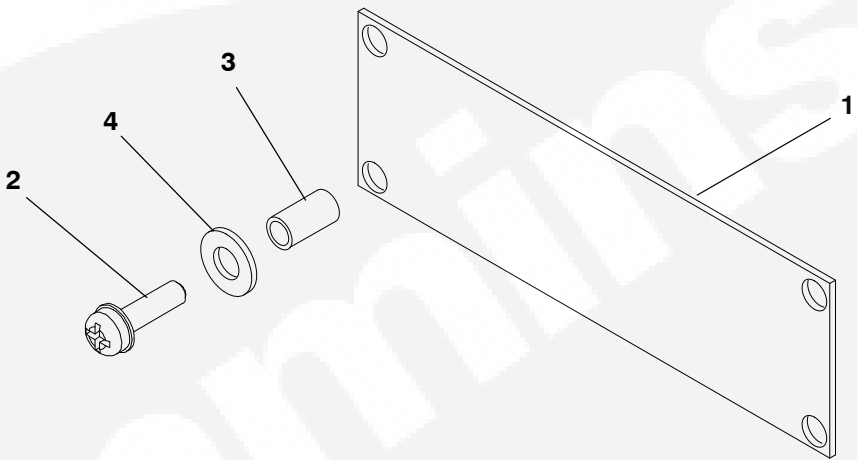
– Parts Included in 338-2223 Wiring Harness

Bar Graph – Blank



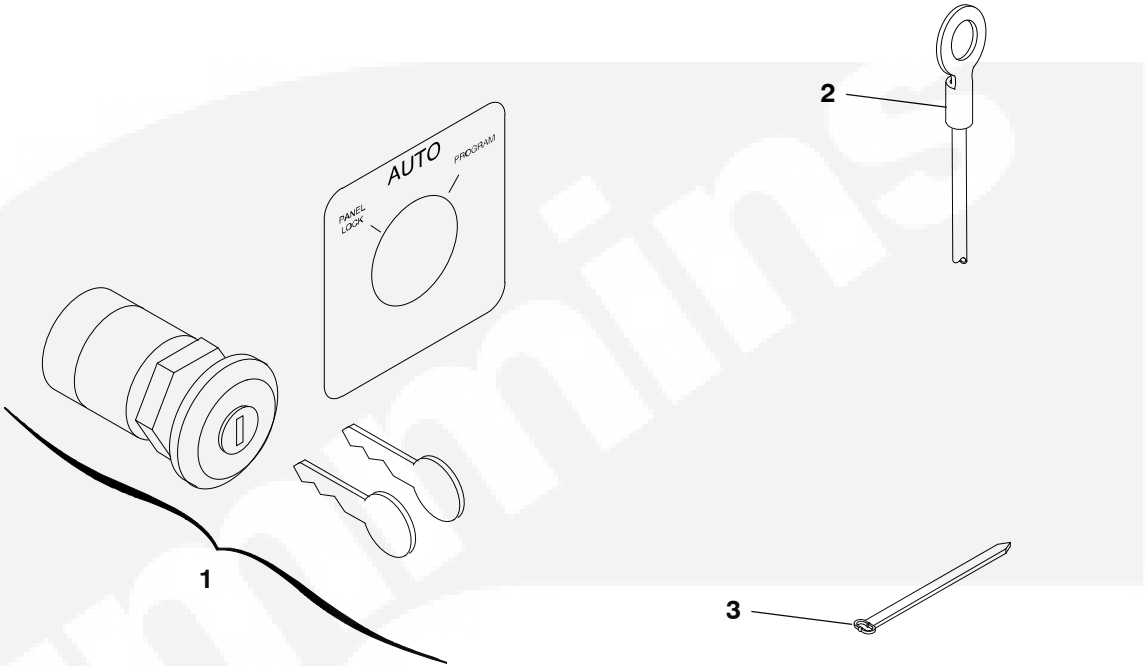
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4139-01	1	Plate, Display Cover	3	870-2218-02	4	Standoff, Nylon
2	815-0959-02	4	Screw, Cross Recessed – Pan Head (M3 x 0.5 x 7)	4	526-0257	4	Washer, Flat

Digital Display – Blank



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4140-01	1	Plate, Digital Display Cover	3	870-2218-02	4	Standoff, Nylon
2	815-0959-02	4	Screw, Cross Recessed – Pan Head (M3 x 0.5 x 7)	4	526-0257	4	Washer, Flat

Front Panel Security



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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					226-4794-02	1	Lead 16" (Marked S20-2 - J27-11)
				3	332-0842	4	Tie, Cable

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Cummins Power Generation

1400 73rd Ave. NE
Minneapolis, MN 55432 USA

Phone 1 763 574 5000

Toll-free 1 800 888 6626

Fax 1 763 574 5298

Email ask.powergen@cummins.com

www.cumminspower.com

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