



Parts Manual

Our energy working for you.™



**Power
Generation**

Transfer Switch

300–800 Amperes

CHPCC (Spec A)

CHPCD (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 CHPC 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	M007	Load Shed – From Emergency
A029	4-Pole Switch	M017	Security – Front Panel
A035	Utility to Generator Set Applications	M018	Display – Digital
A036	Utility to Utility Applications	M020	Communications – Lonworks TP-78
A037	Generator Set to Generator Set Applications	M022	Monitoring – Load
A041	One Phase – 2 or 3 wire	M023	Module – Relay Signal
A042	Three Phase – 3 or 4 wire	M031	Communications – Lonworks FTT-10
A044	Frequency – 60 Hz	N002	Terminal Block – Battery Charger Alarm
A045	Frequency – 50 Hz	N008	Terminal Lugs – Cable
A046	Listing – UL	N013	Harness – Extension
A064	Listing – UL/NFPA20	N031	Compression Lug Adapters (3/8 Stud)
A065	2-Pole Switch	N032	Compression Lug Adapters (1/2 Stud)
B001	Cabinet – Type 1	N038	External Manual Operator
B002	Cabinet – Type 3R	N043	Compression Lug Adapters (5/8 Stud)
B003	Cabinet – Type 4	R020	Voltage – 120
B004	Construction – Open	R021	Voltage – 208
B010	Cabinet – Type 12	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
M003	Terminal Block – 30 Points		

Index

- Actuator – Transfer Switch – 300/400/600 Amp, **7**
Actuator – Transfer Switch – 800 Amp, **9**
Adapters, Compression Lug – 1/2 Stud – 300/400/600 Amp, **21**
Adapters, Compression Lug – 1/2 Stud – 800 Amp, **23**
Adapters, Compression Lug – 3/8 Stud – 300/400/600 Amp, **19**
Adapters, Compression Lug – 3/8 Stud – 800 Amp, **22**
Adapters, Compression Lug – 5/8 Stud – 800 Amp, **24**
Alarm, Battery Charger, **46**
Ammeter – DC – 10 Amp, 12 Volt Battery Charger, **49**
Ammeter – DC – 10 Amp, 24 Volt Battery Charger, **51**
Ammeter – DC – 2 Amp, 12/24 Volt Battery Charger, **47**
Arc Chute – Transfer Switch – 300/400/600 Amp, **7**
Arc Chute – Transfer Switch – 800 Amp, **9**
- Bar, Neutral – Compression Lugs – 1/2 Stud – 300/400/600 Amp, **26**
Bar, Neutral – Compression Lugs – 1/2 Stud – 800 Amp, **28**
Bar, Neutral – Compression Lugs – 3/8 Stud – 300/400/600 Amp, **25**
Bar, Neutral – Compression Lugs – 3/8 Stud – 800 Amp, **27**
Bar, Neutral – Compression Lugs – 5/8 Stud – 800 Amp, **29**
Bar, Neutral – Mechanical Lugs – 300/400/600 Amp, **16**
Bar, Neutral – Mechanical Lugs – 800 Amp, **17**
Base, Relay, 52, 53
Block, Terminal, **39**, 52, 53
Block, Terminal – Battery Charger Alarm, **46**
Block, Terminal – Current Module, **43**
Block, Terminal – Dual Standby, **38**
Block, Terminal – Network Module, **35**
Board, Print Circuit – Bar Graph, **31**
Board, Print Circuit – Bar Graph – Open Construction, **41**
Board, Printed Circuit – 10 Amp, 12 Volt Battery Charger, **49**
Board, Printed Circuit – 10 Amp, 24 Volt Battery Charger, **51**
Board, Printed Circuit – 2 Amp, 12/24 Volt Battery Charger, **47**
Board, Printed Circuit – Current Module, **43**
Board, Printed Circuit – Digital, **31**
Board, Printed Circuit – Digital – Open Construction, **41**
Board, Printed Circuit – Network Module, **35**
Board, Printed Circuit – Power Module, **31**
Board, Printed Circuit – Power Module – Open Construction, **41**
Board, Printed Circuit – Relay Module, **36**
Bracket, End – Auxiliary Relay, **37**
Bracket, End – Terminal – Battery Charger Alarm, **46**
Bracket, End – Terminal – Dual Standby, **38**
Bracket, End – Terminal – Network Module, **35**
Bracket, Power Panel, **33**
Bracket, Terminal, 52, 53
- Cabinet, **31**
Cassette, End, **7**, **9**, **11**
Cassette, Half, **11**
Cassette, Main, **7**, **9**, **10**
Cassette, Spacer – Transfer Switch – 300/400/600 Amp, **7**
Cassette, Spacer – Transfer Switch – 800 Amp, **9**
Cassette, Switch, **10**
Charger, Battery – 10 Amp, 12 Volt, **49**
Charger, Battery – 10 Amp, 24 Volt, **51**
Charger, Battery – 2 Amp, 12/24 Volt, **47**
Cover, Charger – 10 Amp, 12 Volt Battery Charger, **49**
Cover, Charger – 10 Amp, 24 Volt Battery Charger, **51**
Cover, Charger – 2 Amp, 12/24 Volt Battery Charger, **47**
Cover, Printed Circuit Board, **31**
Cover, Printed Circuit Board – Open Construction, **41**
Cover, Protection, 52, 53
- Display, Digital – Blank, **55**
Door, Cabinet, **31**
Dual Standby, **38**
- Flywheel – Transfer Switch – 300/400/600 Amp, **7**
Flywheel – Transfer Switch – 800 Amp, **9**
Fuse – 10 Amp, 12 Volt Battery Charger, **49**
Fuse – 10 Amp, 24 Volt Battery Charger, **51**
Fuse – 2 Amp, 12/24 Volt Battery Charger, **47**
- Graph, Bar – Blank, **54**
- Handle, Crank, **31**
Handle, External Manual Operator, **34**
Harness, Relay, 52, 53
Harness, Transfer Switch – 300/400/600 Amp, **7**
Harness, Transfer Switch – 800 Amp, **9**
Harness, Wiring – 10 Amp, 12 Volt Battery Charger, **49**
Harness, Wiring – 10 Amp, 24 Volt Battery Charger, **51**
Harness, Wiring – 2 Amp, 12/24 Volt Battery Charger, **47**
Harness, Wiring – Battery Charger, **45**
Harness, Wiring – Battery Charger Alarm, **46**
Harness, Wiring – Current Module, **43**
Harness, Wiring – Extension – Open Construction, **41**
Harness, Wiring – Main, **31**

Index

- Harness, Wiring – Main – Open Construction, **41**
- Harness, Wiring – Network Module, **35**
- Harness, Wiring – Power Panel, **33**
- Holder, Fuse – 10 Amp, 12 Volt Battery Charger, **49**
- Holder, Fuse – 10 Amp, 24 Volt Battery Charger, **51**
- Holder, Fuse – 2 Amp, 12/24 Volt Battery Charger, **47**

- Interlock Assembly, **12**
- Interlock Assembly – Transfer Switch – 300/400/600 Amp, **7**
- Interlock Assembly – Transfer Switch – 800 Amp, **9**
- Label, Information, 52, 53
- Labels, Cabinet, **32**
- Lug, Solderless – Neutral Bar – 300/400/600 Amp, **16**
- Lug, Solderless – Neutral Bar – 800 Amp, **17**
- Lugs, Mechanical – 300/400/600 Amp, **13**
- Lugs, Mechanical – 800 Amp, **15**

- Membrane, Panel, **31**
- Membrane, Panel – Open Construction, **41**
- Module, Digital Display, **31**
- Module, Digital Display – Open Construction, **41**
- Module, Network, **35**

- Operator, External Manual, **34**

- Panel, Power, **33**
- Plate, Assy, 52, 53
- Plate, End – Terminal – Battery Charger Alarm, **46**
- Plate, End – Terminal – Dual Standby, **38**
- Plate, End – Terminal – Network Module, **35**
- Plate, End Terminal, 52, 53
- Plate, Mounting – Battery Charger Alarm, **46**
- Plate, Mounting – Current Module, **43**
- Plate, Open Construction, **41**
- Protective Relay, **52, 53**
- Rail, Terminal, 52, 53
- Rail, Terminal – Auxiliary Relay, **37**
- Rail, Terminal – Current Module, **43**
- Rail, Terminal Block – Battery Charger Alarm, **46**
- Rail, Terminal Block – Dual Standby, **38**
- Rail, Terminal Block – Network Module, **35**
- Rectifier, Bridge, 52, 53
- Rectifier, Bridge – 10 Amp, 12 Volt Battery Charger, **49**
- Rectifier, Bridge – 10 Amp, 24 Volt Battery Charger, **51**
- Rectifier, Gate – 10 Amp, 12 Volt Battery Charger, **49**
- Rectifier, Gate – 10 Amp, 24 Volt Battery Charger, **51**
- Relay, Auxiliary, **37**
- Relay, Control – Auxiliary Relay, **37**
- Relay, Control – Power Panel, **33**
- Relay, Lockout, 52, 53
- Relay, Time, 52, 53
- Resistor, Fixed – 2 Amp, 12/24 Volt Battery Charger, **47**

- Shaft, Actuation – Transfer Switch – 300/400/600 Amp, **7**
- Shaft, Actuation – Transfer Switch – 800 Amp, **9**
- Switch, Manual Lockout – External Manual Operator, **34**
- Switch, Selector – Security, **56**
- Switch, Toggle – Power Panel, **33**
- Switch, Transfer – 300/400/600 Amp, **7**
- Switch, Transfer – 800 Amp, **9**

- Transformer – 10 Amp, 12 Volt Battery Charger, **49**
- Transformer – 10 Amp, 24 Volt Battery Charger, **51**
- Transformer – 2 Amp, 12/24 Volt Battery Charger, **47**
- Transformer, Current, **43**
- Transformer, Power, 52, 53
- Transformer, Power Panel, **33**

- Wrapper, Charger – 2 Amp, 12/24 Volt Battery Charger, **47**
- Wrapper, Charger – 10 Amp, 12 Volt Battery Charger, **49**
- Wrapper, Charger – 10 Amp, 24 Volt Battery Charger, **51**

Abbreviations

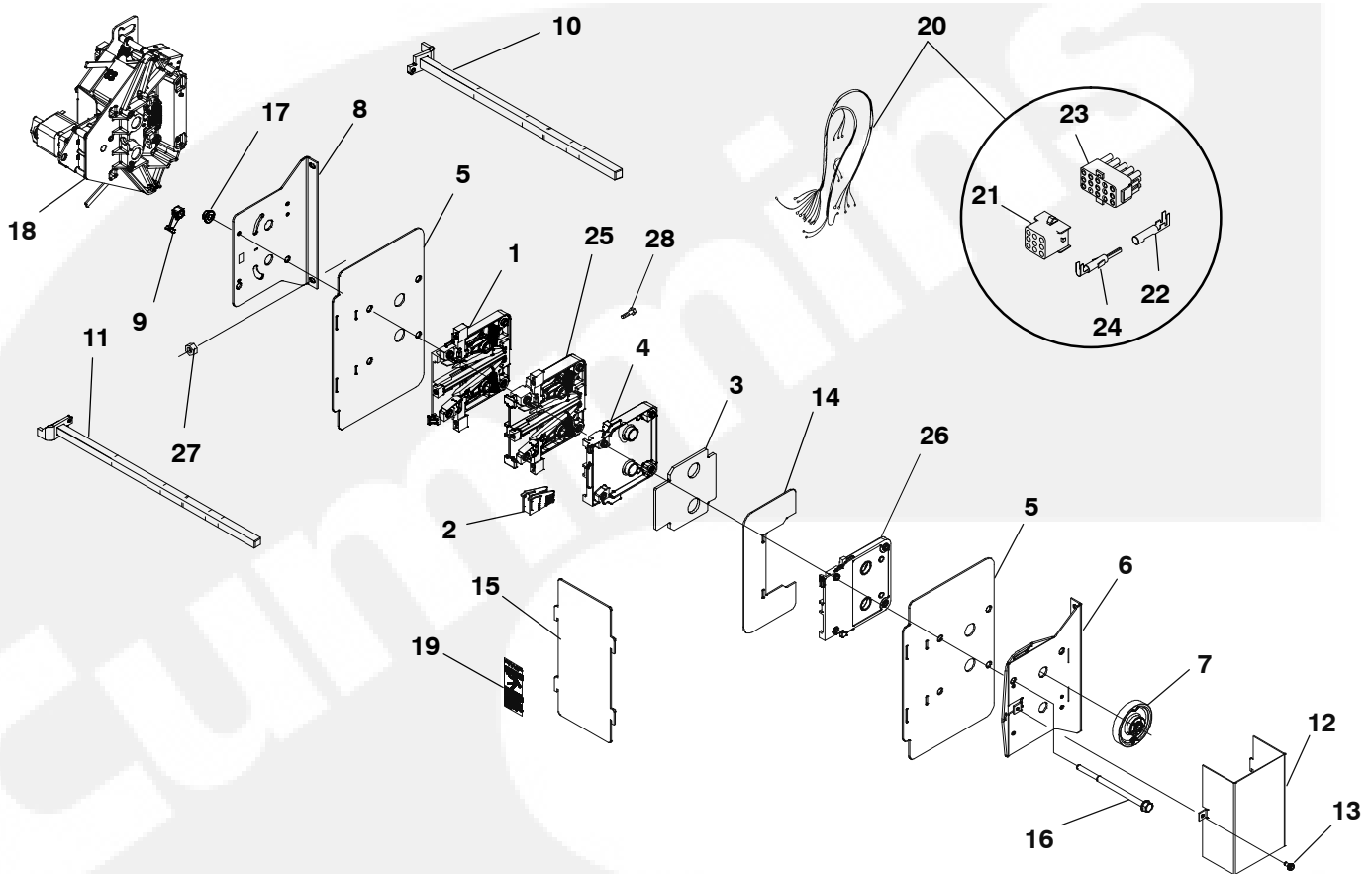
Some of the following abbreviations may be used throughout this Parts Catalog:

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

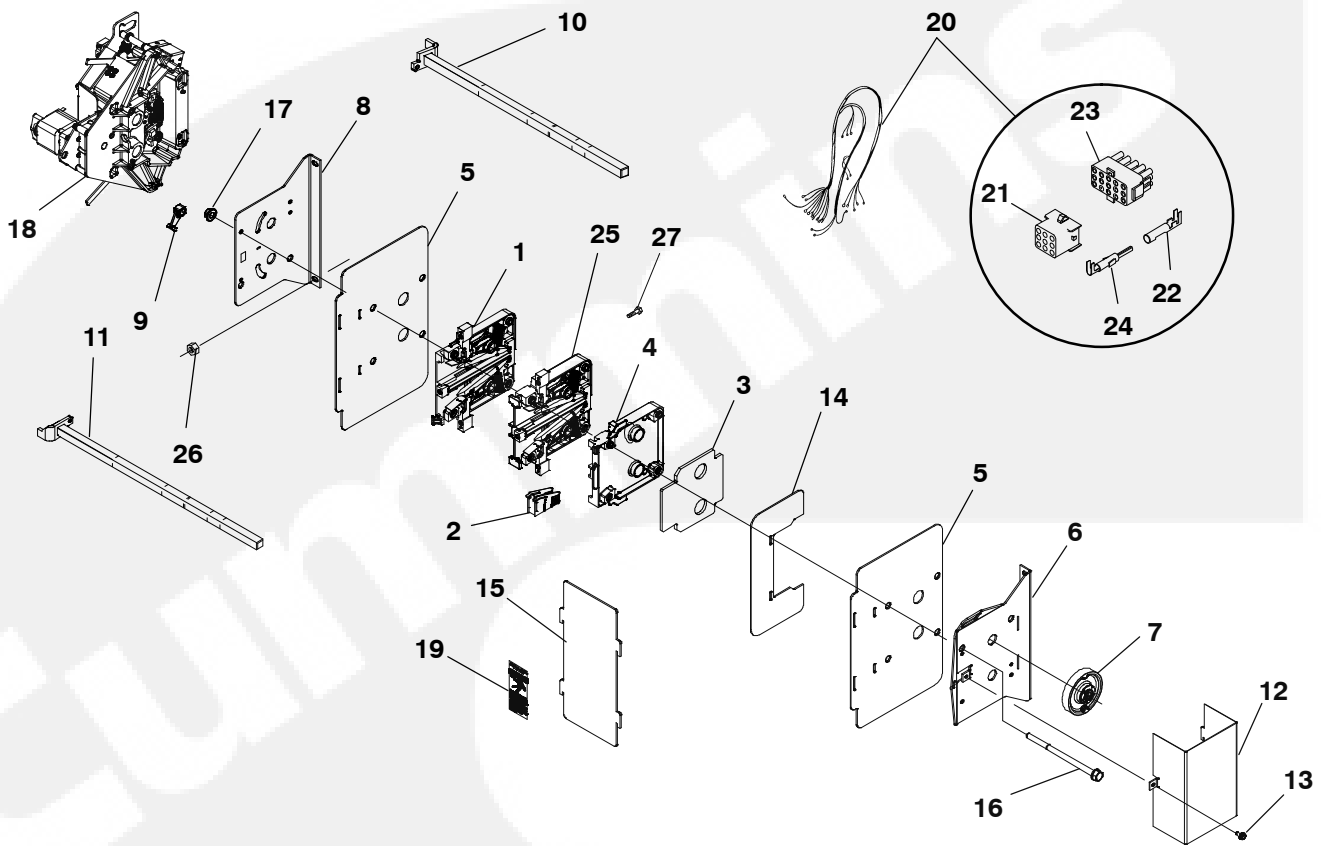


Transfer Switch 300/400/600 Amp

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

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

Transfer Switch 800 Amp

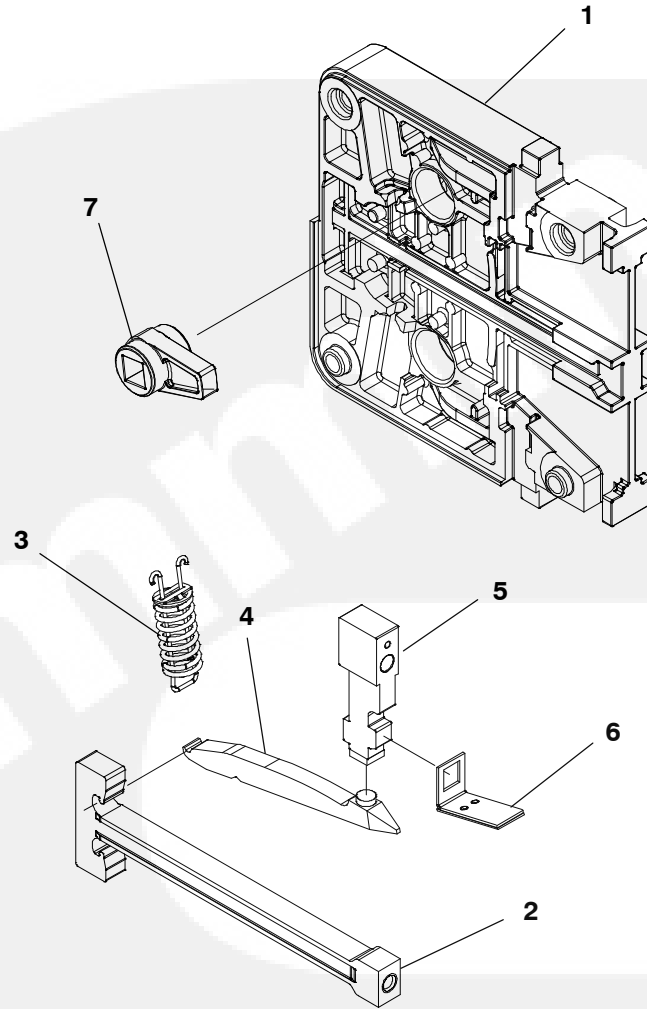


Transfer Switch 800 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cassette, End (See Separate Page for Components)	14			Barrier, Phase
	306-4526	2	2 Pole		306-4767	1	2 Pole
	306-4526	3	3 Pole		306-4767	2	3 Pole
	306-4526	4	4 Pole		306-4767	3	4 Pole
2			Arc Chute	15			Cover, Switch
	306-4496	12	2 Pole		319-5137-01	1	2 Pole
	306-4496	18	3 Pole		319-5137-02	1	3 Pole
	306-4496	24	4 Pole		319-5137-03	1	4 Pole
3			Cassette, Spacer	16			Screw, Hex Washer Head (M8 x 1.25)
	306-4492	2	2 Pole		800-3045-07	4	2 Pole (243mm Long)
	306-4492	3	3 Pole		800-3045-08	4	3 Pole (345mm Long)
	306-4492	4	4 Pole		800-3045-09	4	4 Pole (448mm Long)
4			Shield, Magnetic Flux	17	870-2159	4	Nut, Locking (M8 x 1.25)
	319-3829	2	2 Pole	18			Actuator
	319-3829	4	3 Pole		306-4627-04	1	2 and 3 Pole
	319-3829	6	4 Pole		306-4771-02	1	4 Pole
5	306-4766	2	Barrier, End	19	098-7735	1	Label, Cover
6	306-4547	1	Bracket, Mounting – Switch	20			Harness, Switch (Includes Parts Marked *)
7			Flywheel				
	306-4581-01	2	2 Pole		338-3861	1	2 Pole
	104-2013-01	2	3 Pole		338-3860	1	3 and 4 Pole
	104-2013-02	2	4 Pole	21	323-1291	1	* Plug, 9-Pin
8	306-4656	1	Interlock Assembly (See Separate Page for Components)	22	323-1200	7	* Socket, Contact
				23	323-1252	1	* Plug, Circuit (P1)
				24	323-1199	15	* Pin, Contact
9	170-4689	2	Lever, Disconnect	25			Cassette, Main (See Separate Page for Components)
10			Shaft, Actuation (S1)				
	306-4532-08	1	2 Pole		306-4525	4	2 Pole
	306-4532-09	1	3 Pole		306-4525	6	3 Pole
	306-4532-10	1	4 Pole		306-4525	8	4 Pole
11			Shaft, Actuation (S2)	26	870-2056	4	Nut, Lock – Flange (M10)
	306-4572-08	1	2 Pole	27			Screw, Hex Washer Head (M4 x 0.7 x 10)
	306-4572-09	1	3 Pole				
	306-4572-10	1	4 Pole		815-0979-02	4	2 Pole
12	306-4573	1	Cover, Flywheel		815-0979-02	6	3 Pole
13	815-0753	1	Screw, Cap – Hex Head (Thread Forming) (M6 x 1mm)		815-0979-02	8	4 Pole

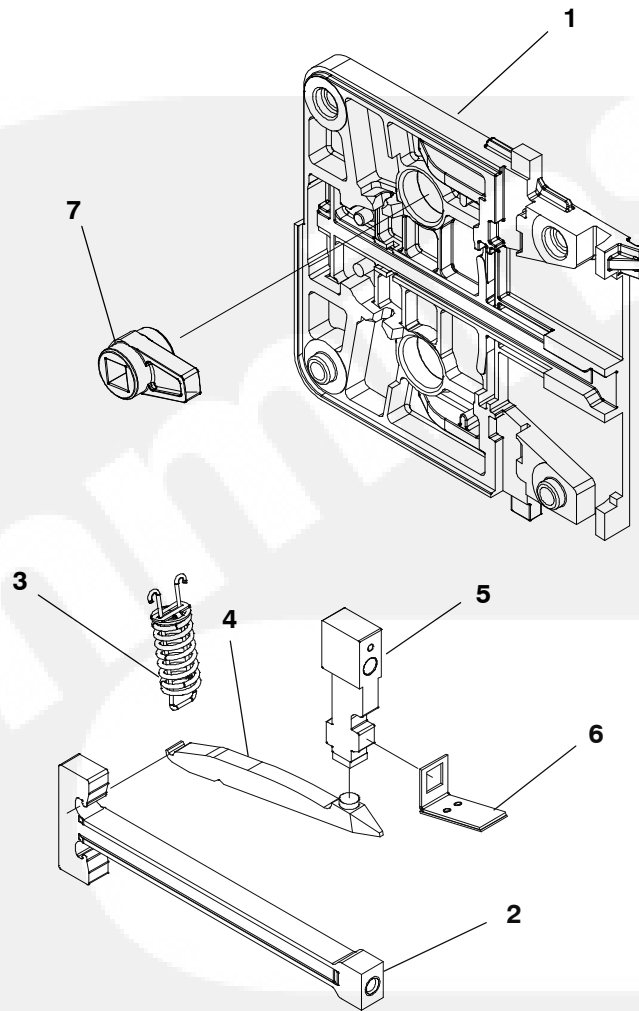
* – Parts Included in 338-3860 and 338-3861 Wiring Harness

Main Cassette



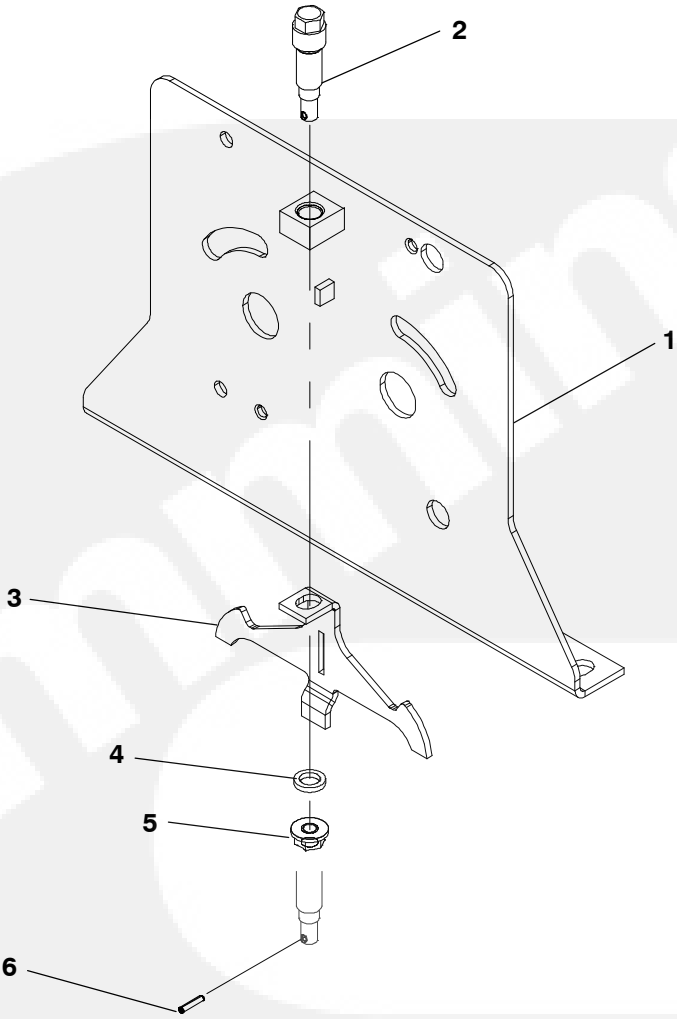
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4525	–	Cassette, Main (Includes the Following Parts)	4	337-3434	2	Bus – Moving
1	306-4490	1	Cassette, Switch	5	337-3433	2	Bar, Bus – Source
2	337-3430	1	Bar, Bus – Load	6	306-4739-02	2	Runner, Arc
3	306-4482	2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

End Cassette



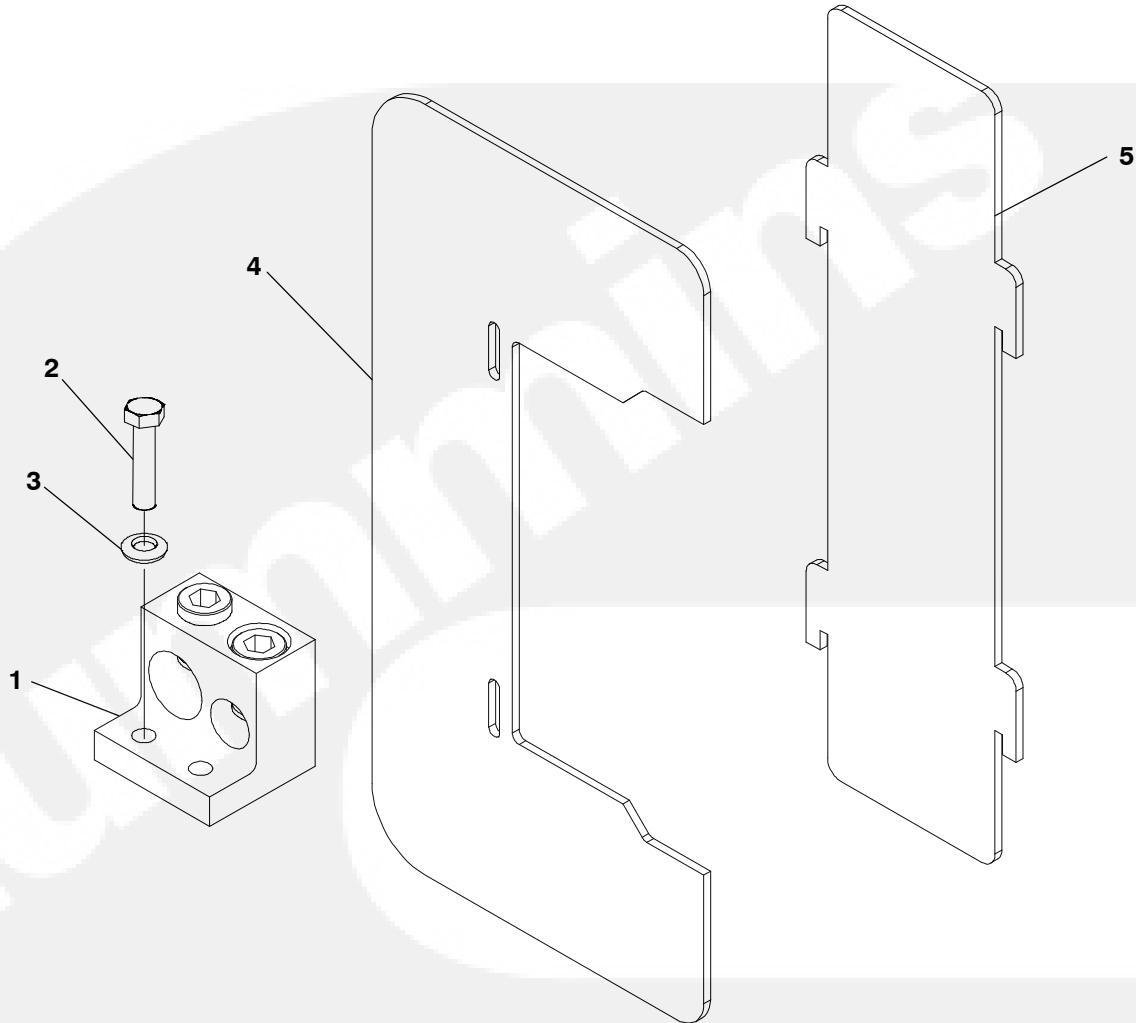
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4526	–	Cassette, End (Includes the Following Parts)	4	337-3434	2	Bus – Moving
1	306-4491	1	Cassette, Half	5	337-3433	2	Bar, Bus – Source
2	337-3430	1	Bar, Bus – Load	6	306-4739-02	2	Runner, Arc
3	306-4482	2	Spring 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

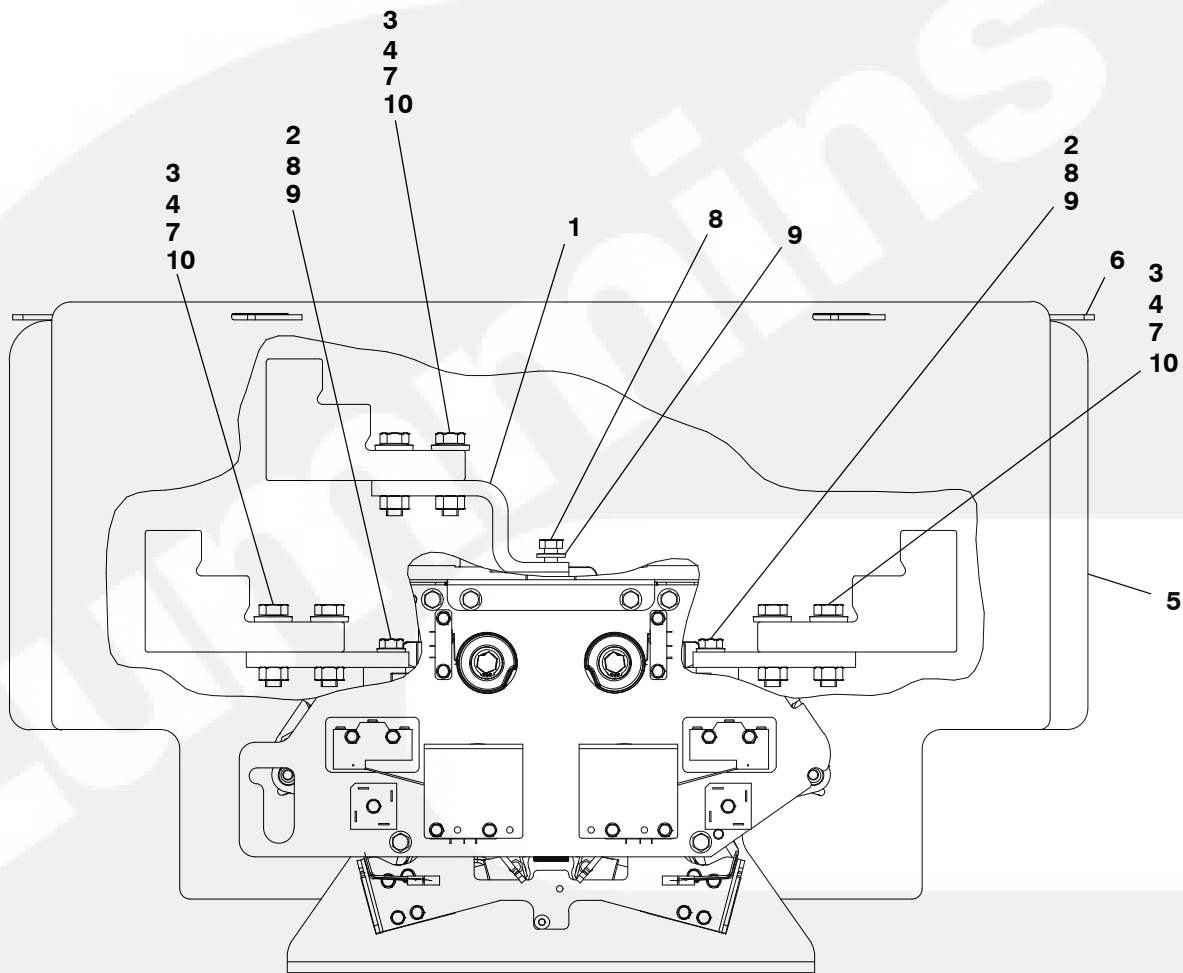
Mechanical Lugs 300/400/600 Amp



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



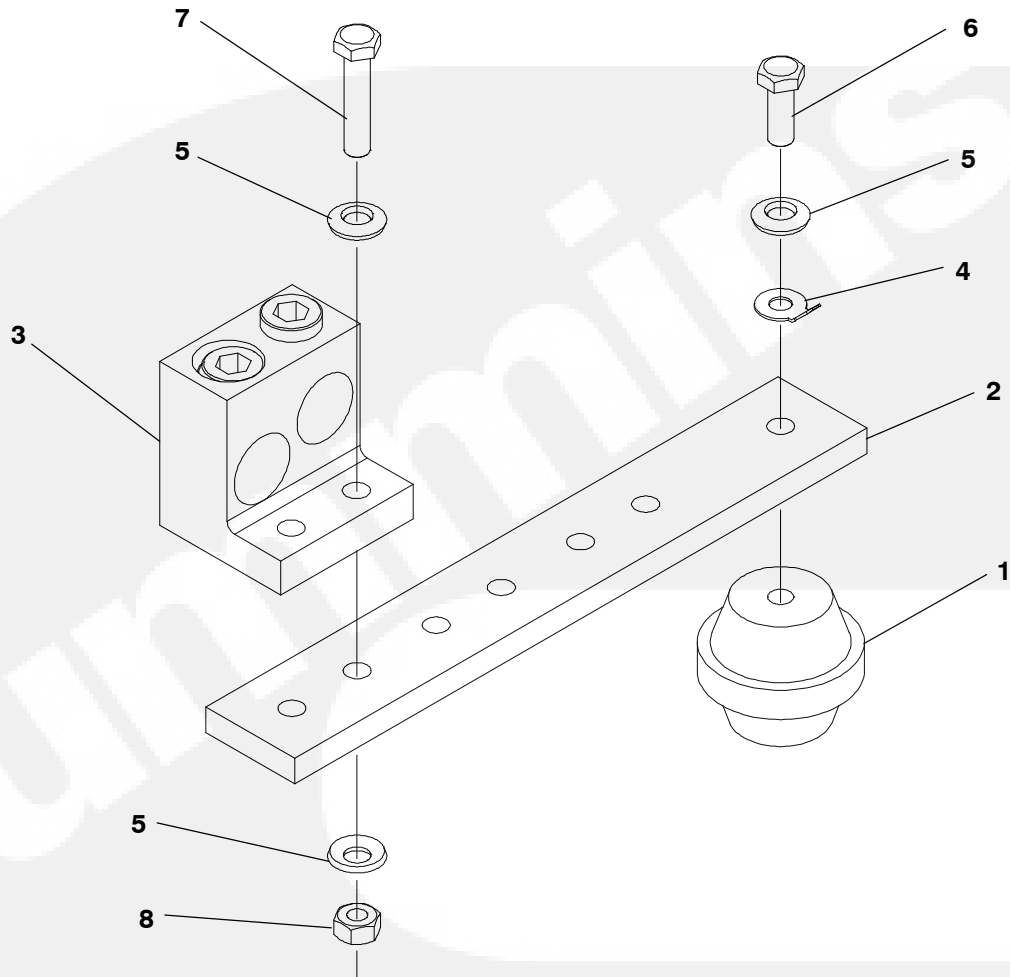
Mechanical Lugs 800 Amp



Mechanical Lugs 800 Amp

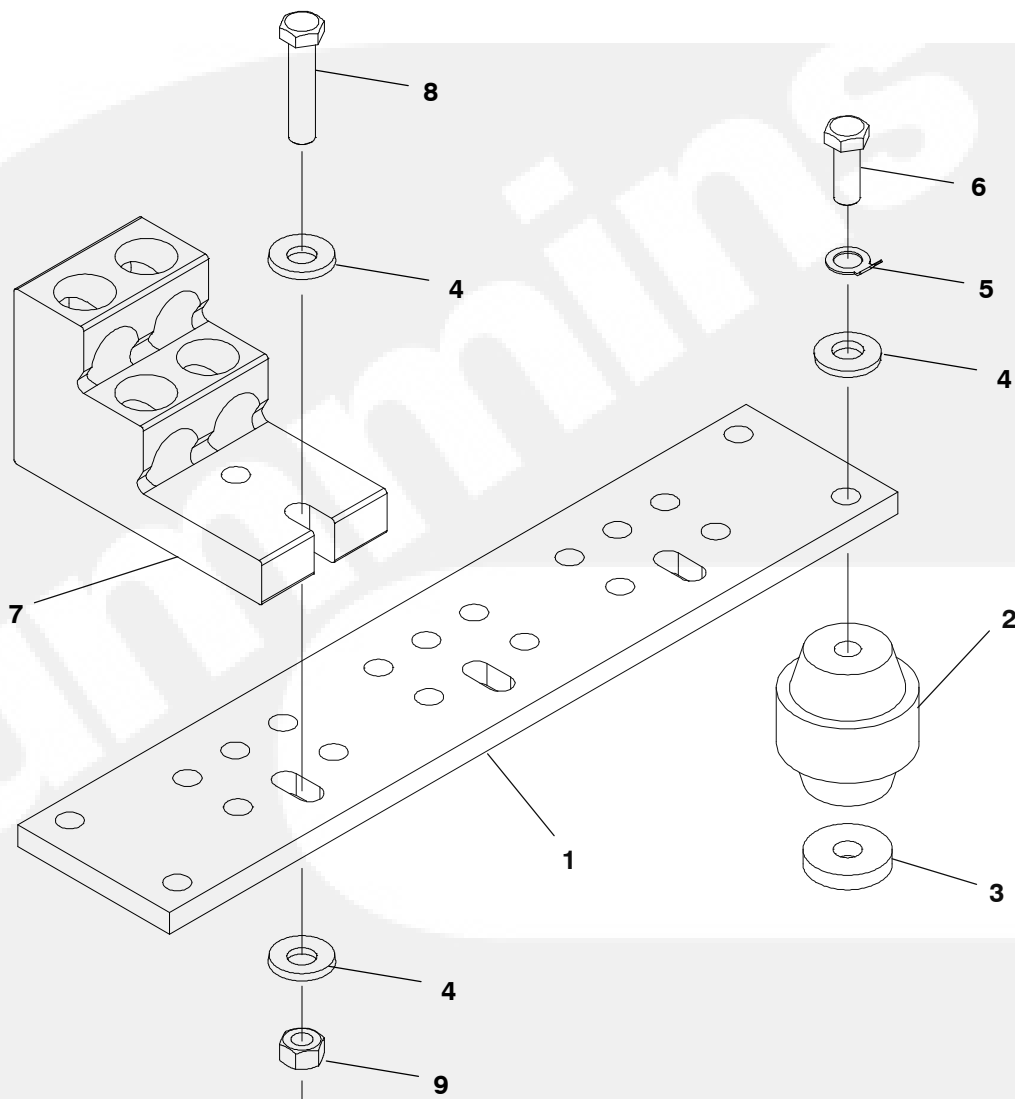
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	6			Cover, Switch
	337-3633-02	2	2 Pole		319-5137-01	1	2 Pole
	337-3633-02	3	3 Pole		319-5137-02	1	3 Pole
	337-3633-02	4	4 Pole		319-5137-03	1	4 Pole
2			Bar, Bus – Lug	7			Lug
	337-3634-02	4	2 Pole		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



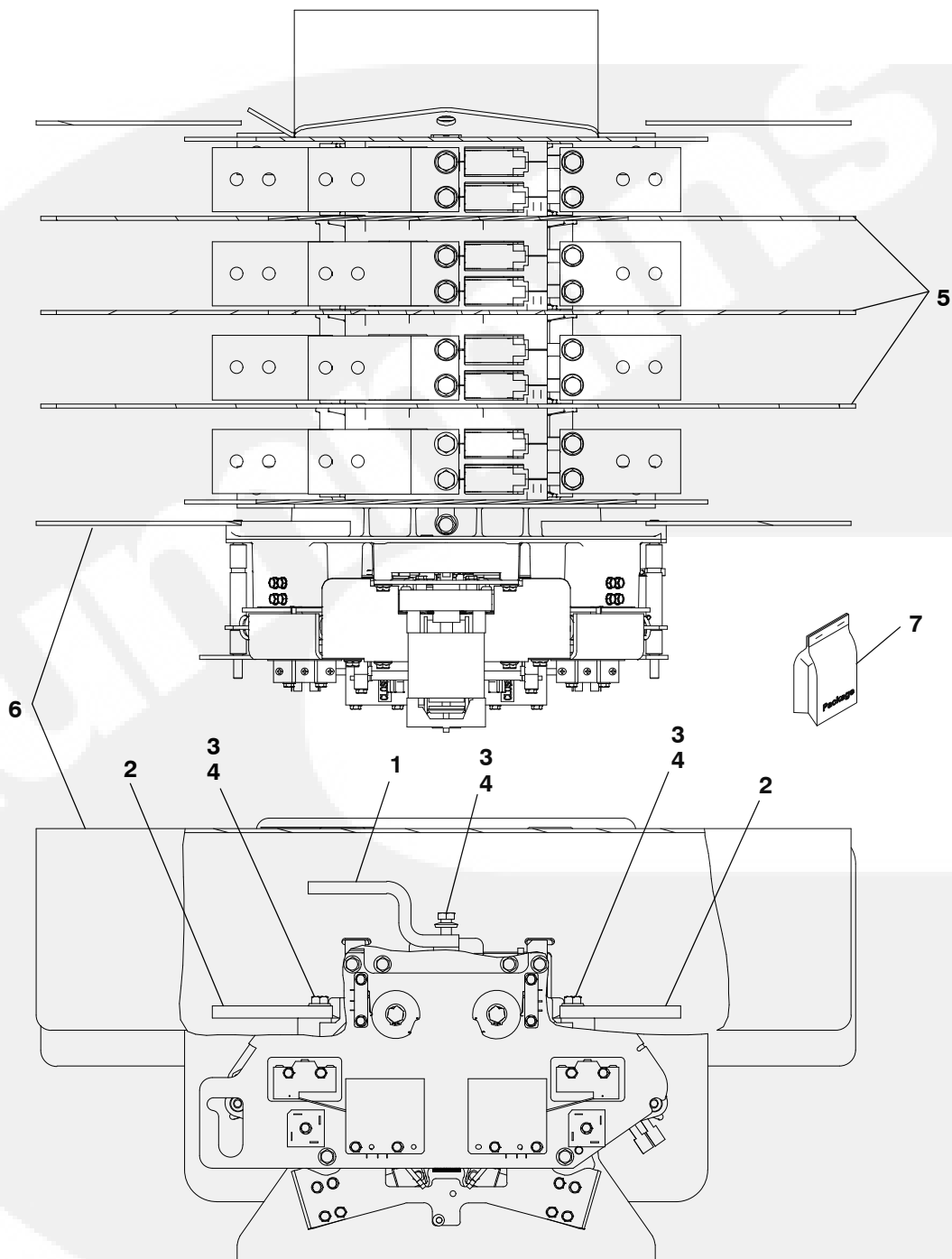
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Bar Assembly, Neutral (Includes the Following Parts)	4	332-2463	1	Ring, Terminal
	337-3511-01	1	300/400 Amp	5	851-0028	14	Washer, Spring (5/16")
	337-3511-02	1	600 Amp	6	800-0027	2	Screw, Cap - Hex Head (5/16-18 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

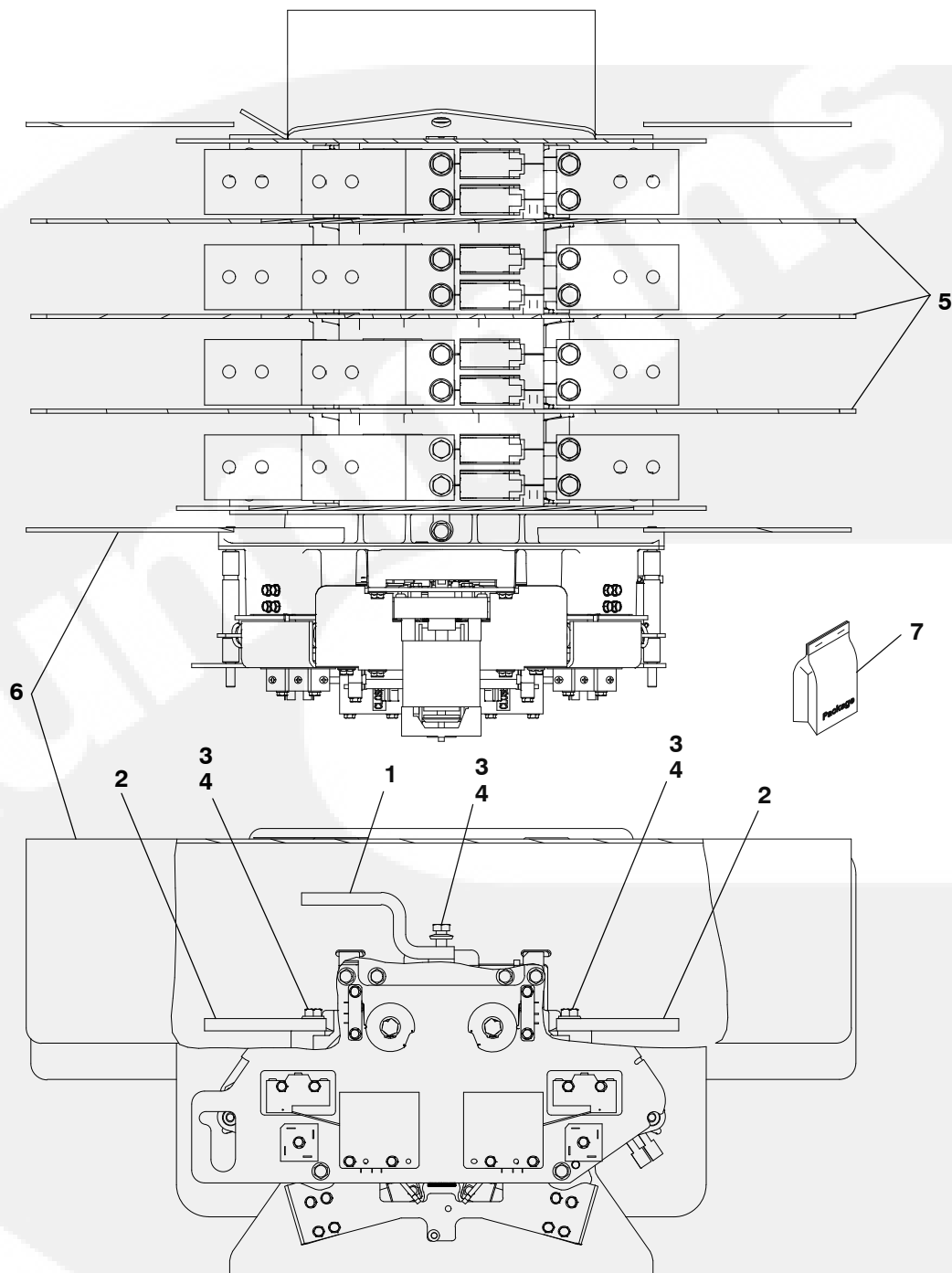


Compression Lug Adapters
3/8 Stud
300/400/600 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bar, Bus – Load	5			Barrier, Phase
	337-3566-02	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

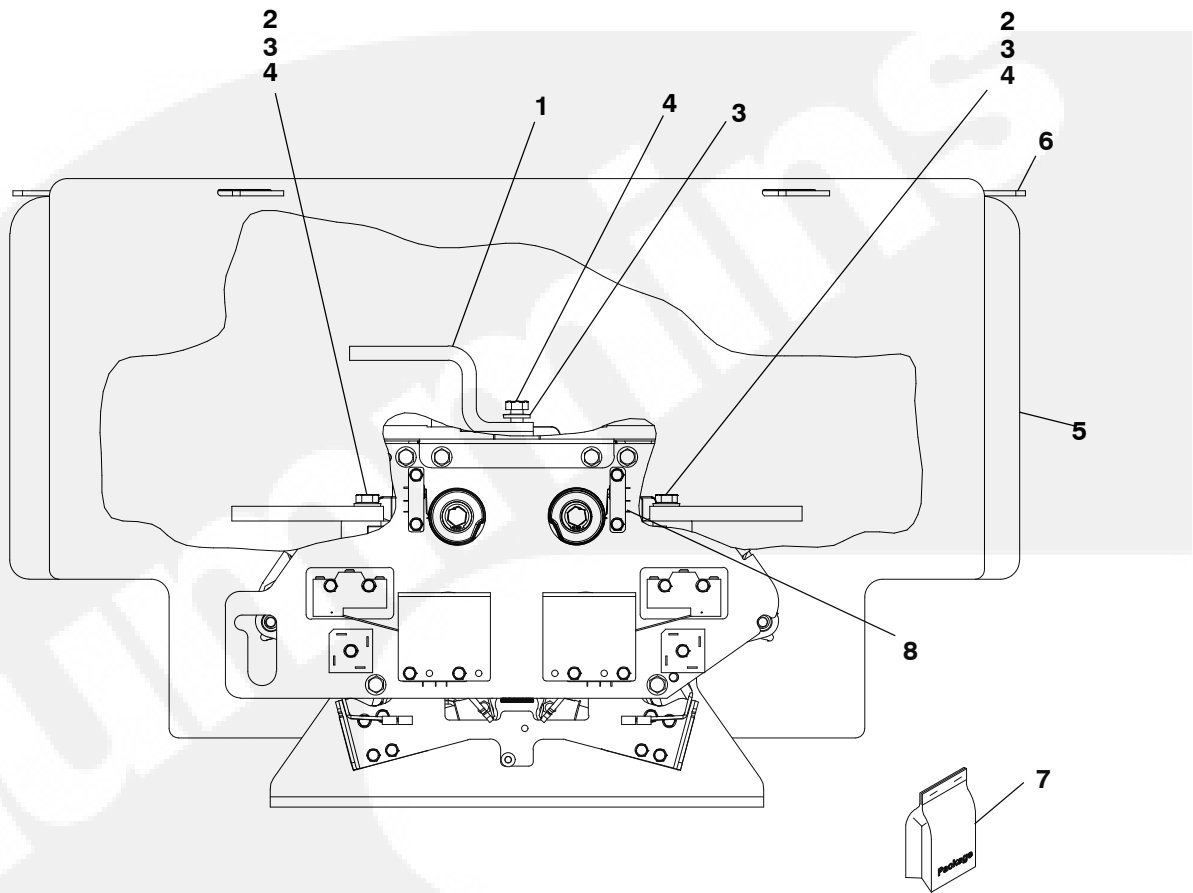


Compression Lug Adapters
1/2 Stud
300/400/600 Amp

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				

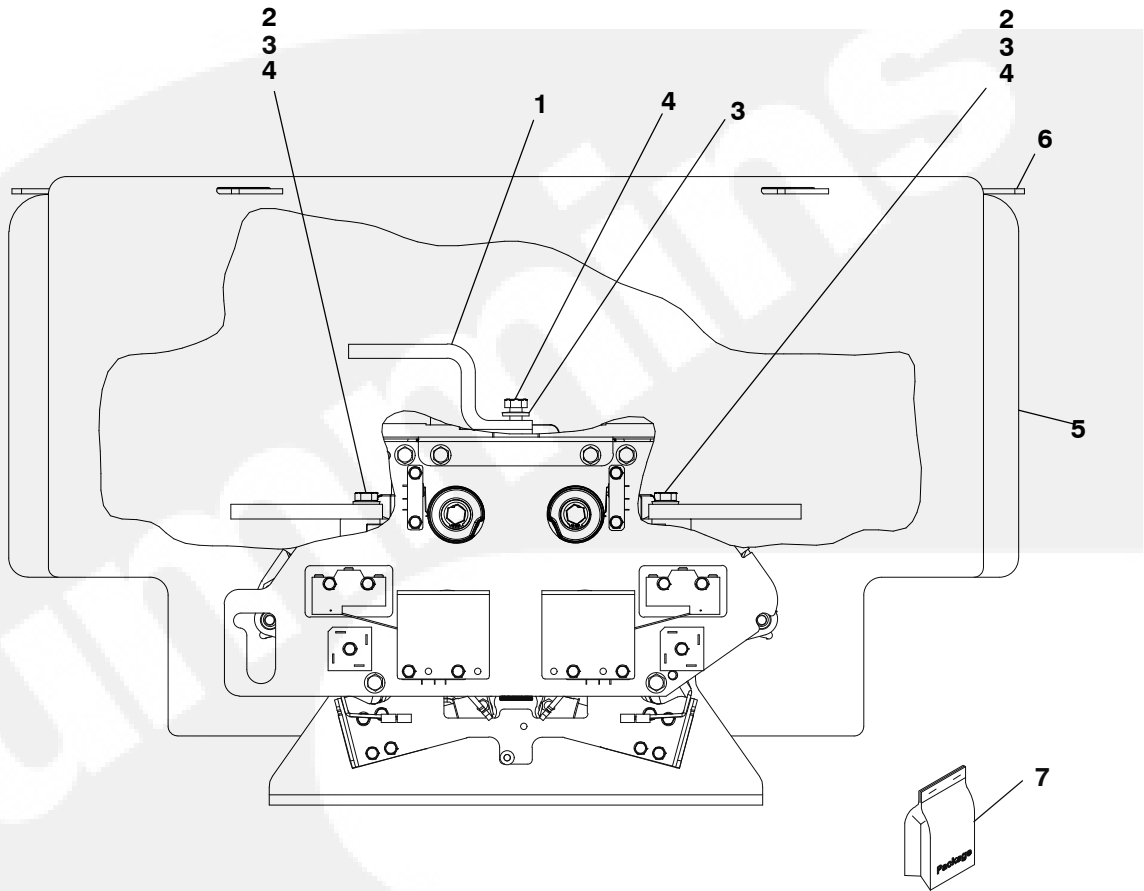


Compression Lug Adapters
3/8 Stud
800 Amp



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	8	308-1099	2	Switch, Subminiature
	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				

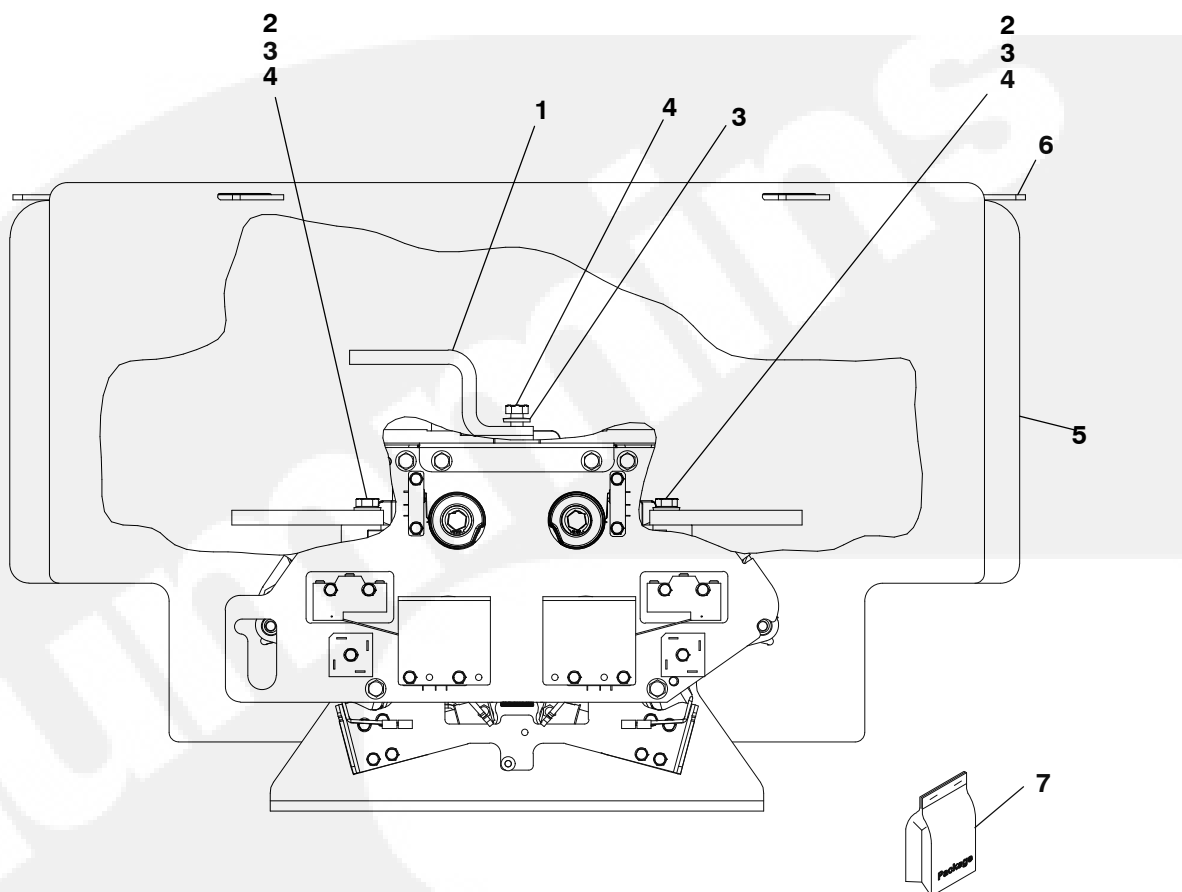
Compression Lug Adapters 1/2 Stud 800 Amp



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				

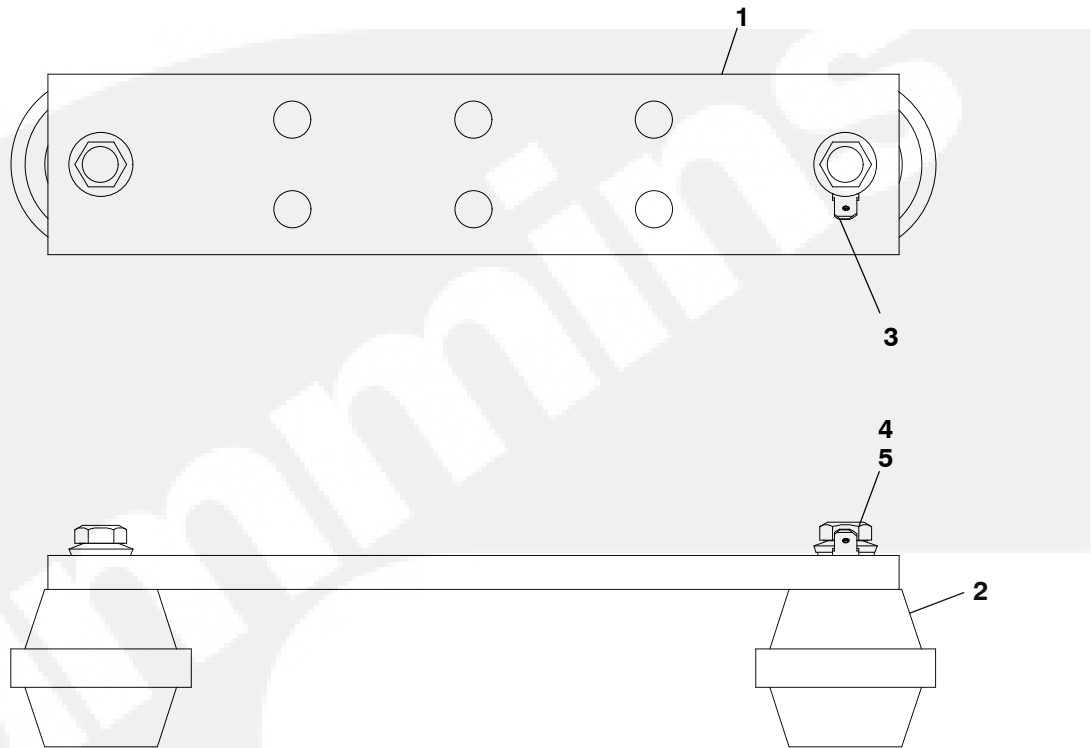


Compression Lug Adapters **5/8 Stud** **800 Amp**



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				

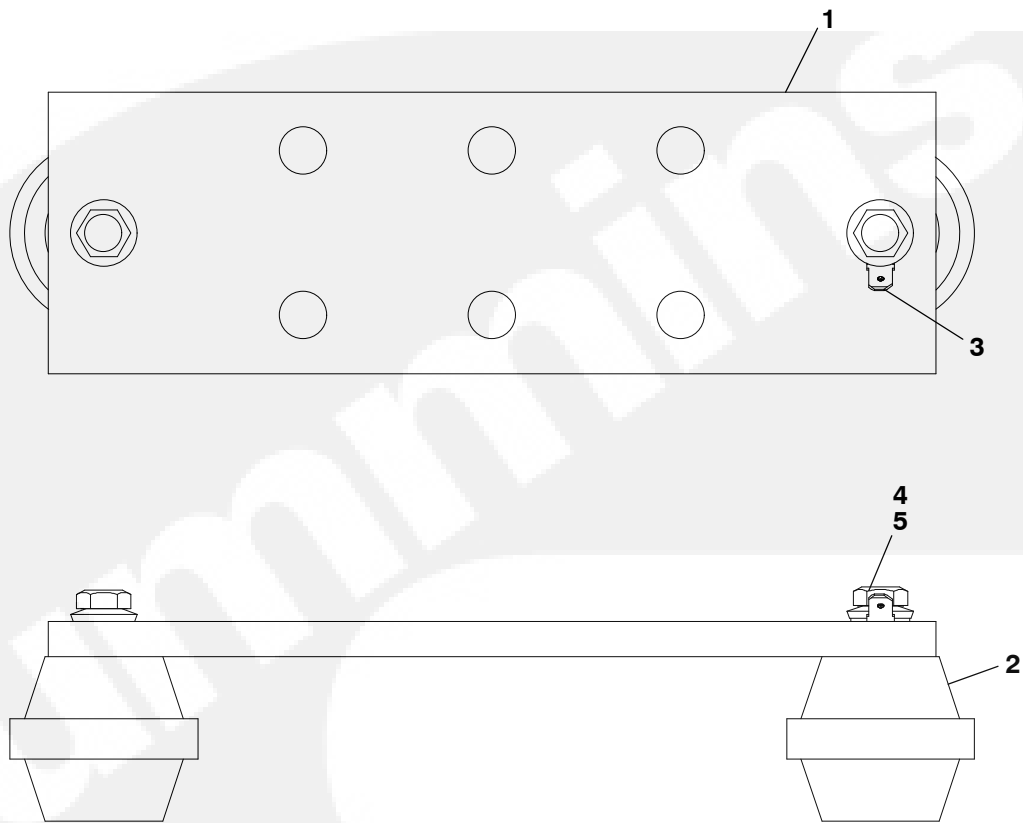
**Neutral Bar
Compression Lugs
3/8 Stud
300/400/600 Amp**



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

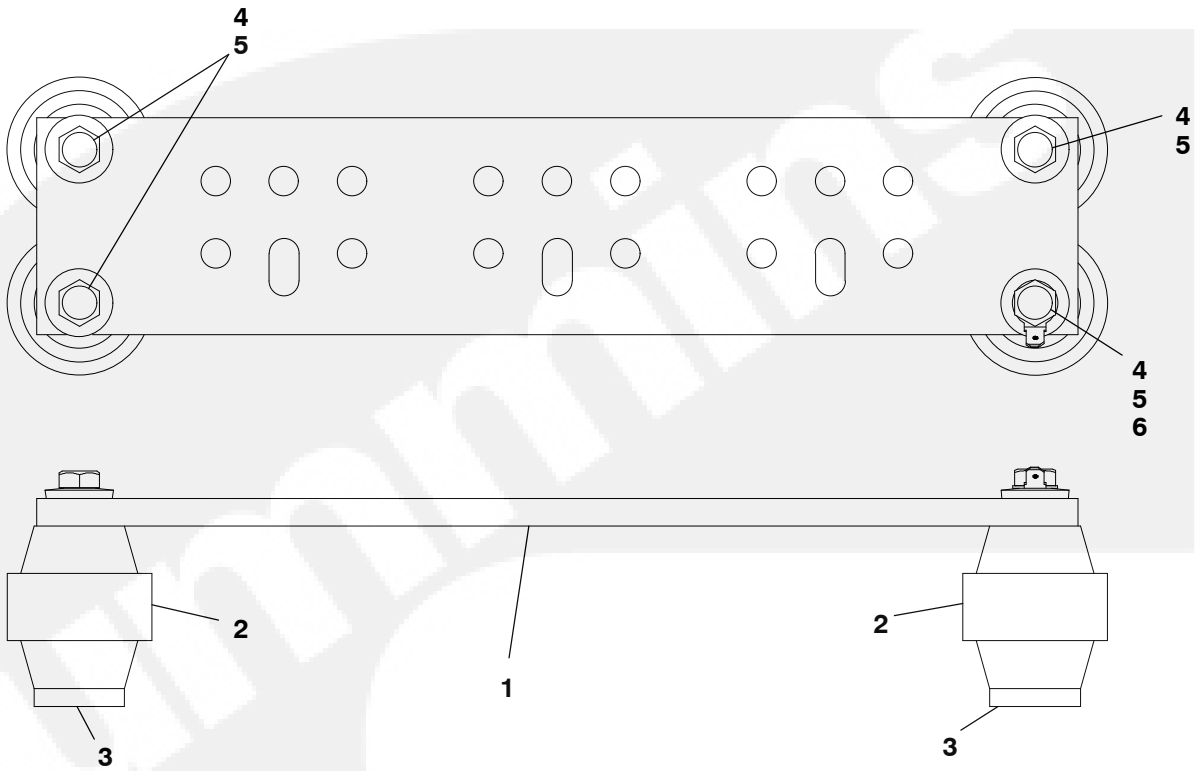
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	851-0028	2	Washer, Lock - Spring (5/16)
5	800-0027	2	Screw, Cap - Hex Head (5/16-18 x .88)

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



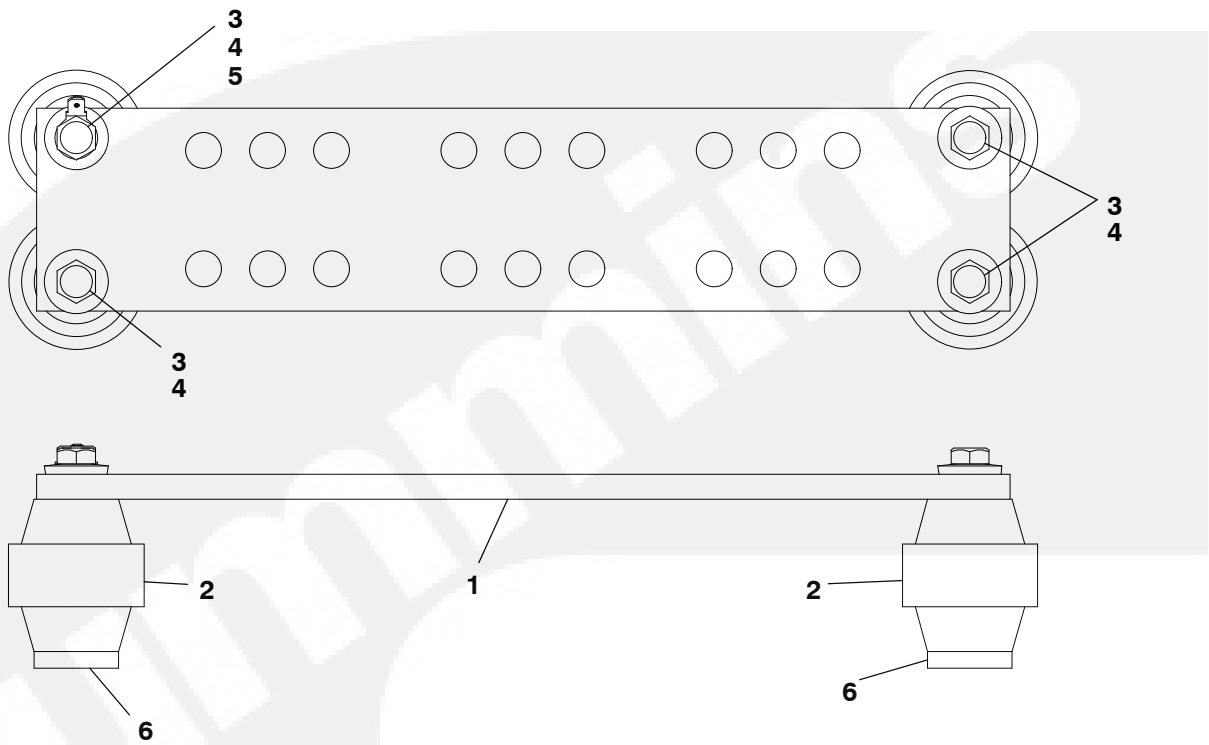
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3575	-	Bar, Bus - Assembly	4	851-0028	2	Washer, Lock - Spring (5/16)
1	337-3570-02	1	Bar, Bus - Neutral	5	800-0027	2	Screw, Cap - Hex Head (5/16-18 x .88)
2	332-2744-03	2	Standoff, Insulator				
3	332-2463	1	Ring, Terminal				

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



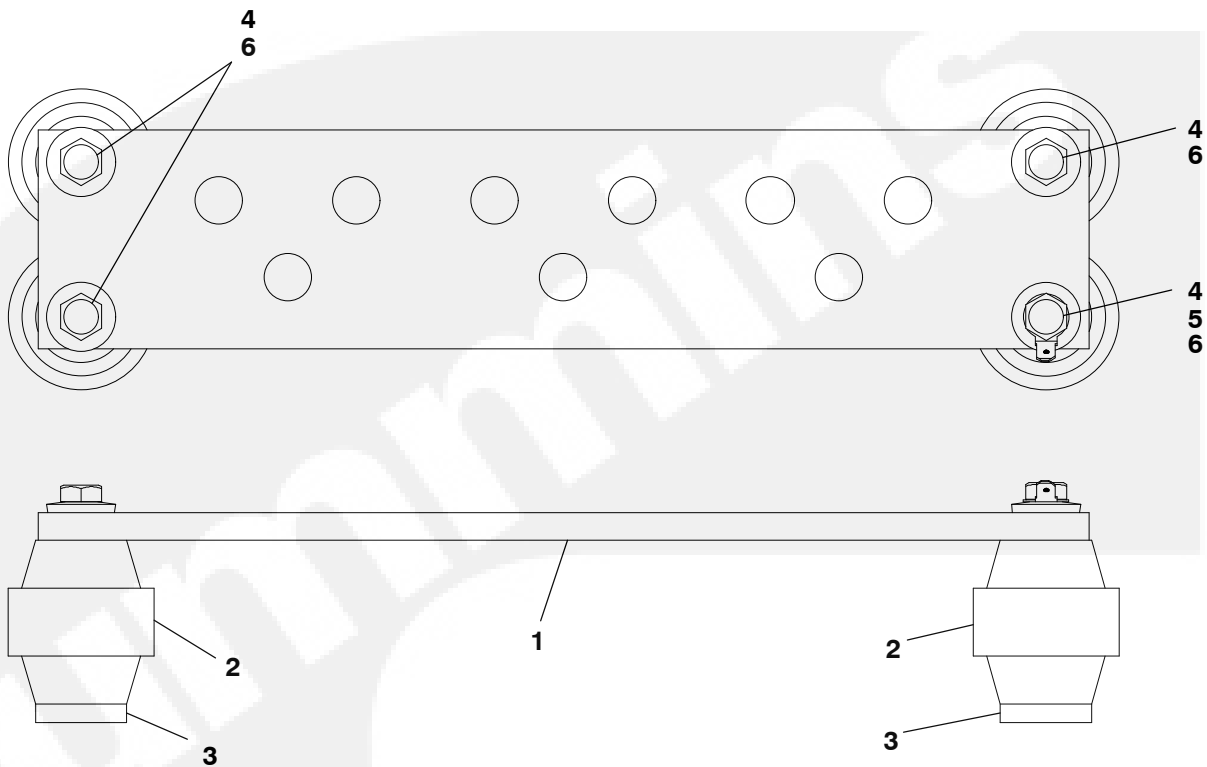
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3650	-	Bar, Bus - Assembly	4	851-0022	4	Washer, Lock - Spring (3/8)
1	337-3641-02	1	Bar, Bus - Neutral	5	800-0050	4	Screw, Cap - Hex Head (5/16-18 x 1)
2	332-2744-07	4	Standoff, Insulator	6	332-2564	1	Ring, Terminal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

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



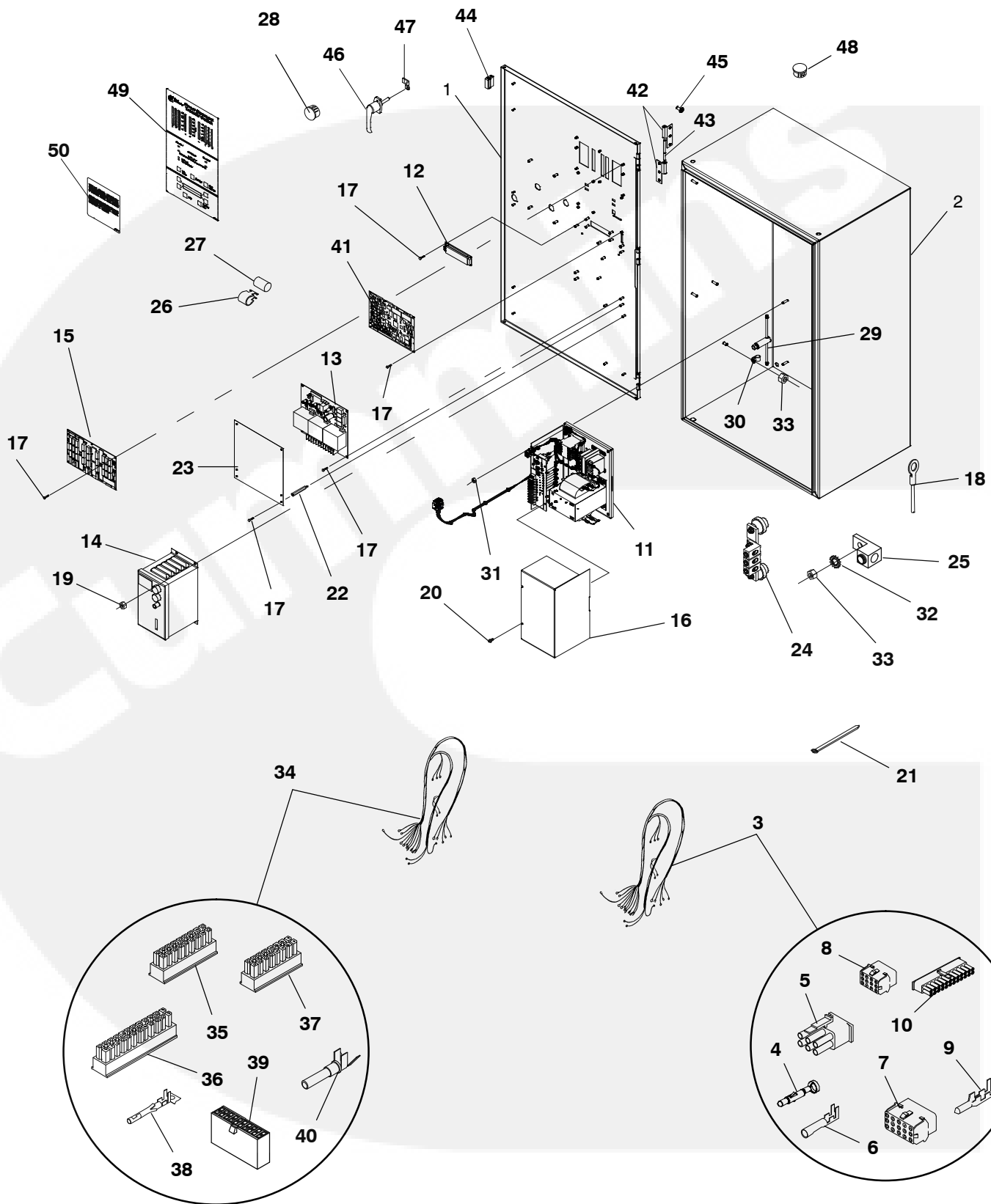
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	337-3648	-	Bar, Bus - Assembly	4	800-0050	4	Screw, Cap - Hex Head (5/16-18 x 1)
1	337-3642-02	1	Bar, Bus - Neutral	5	332-2564	1	Ring, Terminal
2	332-2744-07	4	Standoff, Insulator	6	526-0077	4	Washer, Flat (3/8)
3	851-0022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

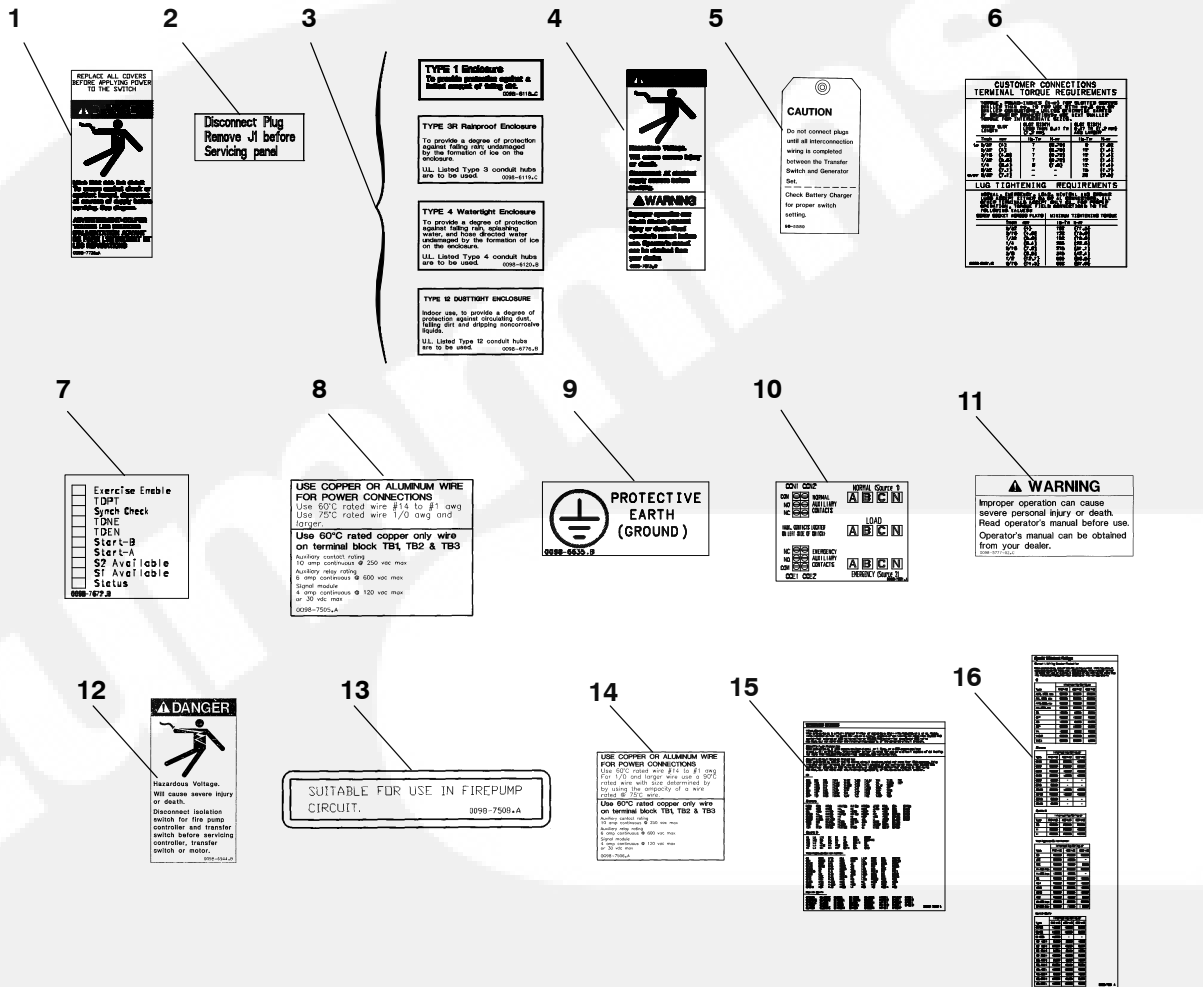
Cabinet



Cabinet

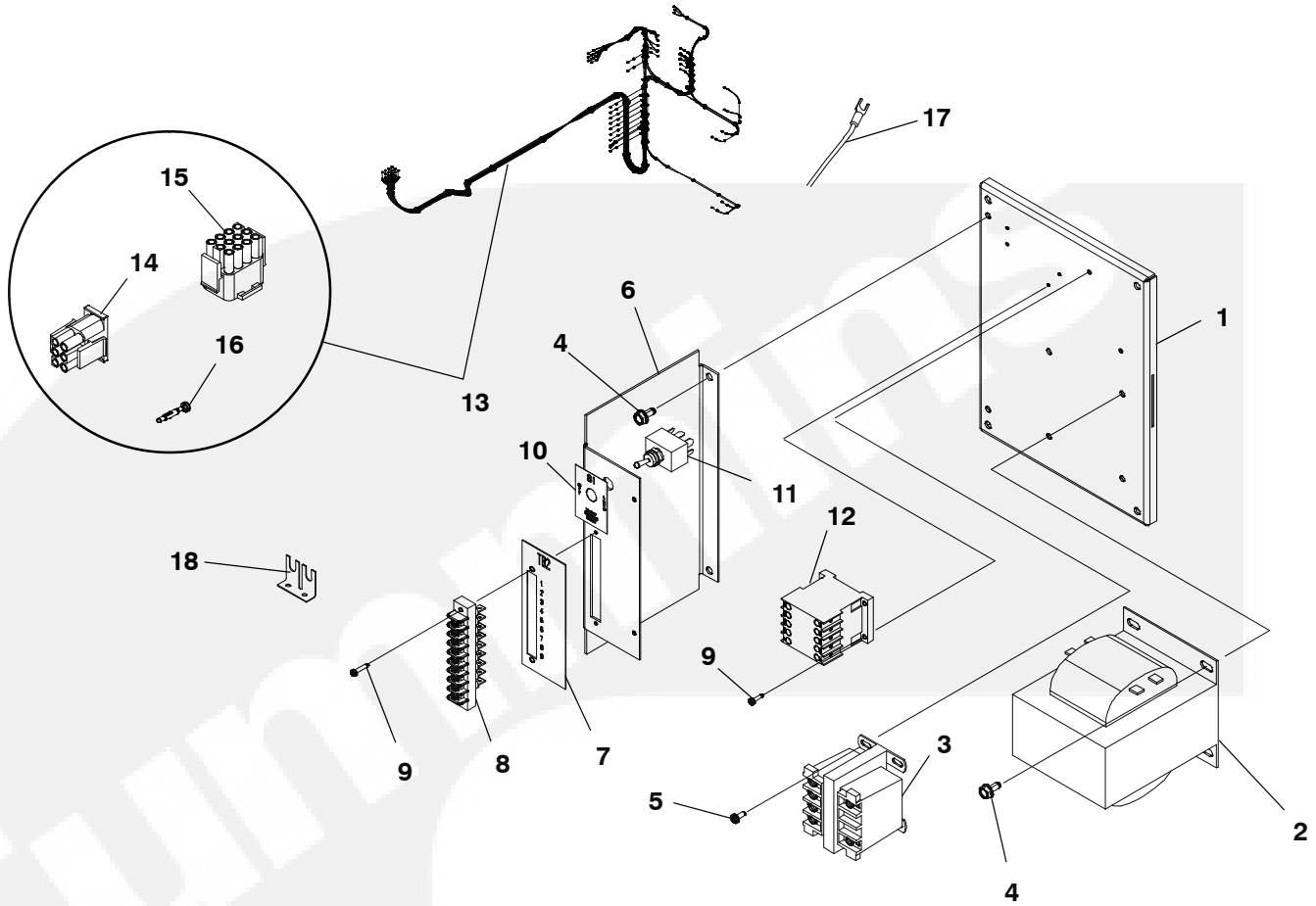
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Cabinet	25	332-1473	1	Lug, Solderless (5/16")
	319-4796-02	1	300/400/600 Amp	26	416-1049	2	Retainer, Battery
	319-5154-02	1	800 Amp	27	416-1048	2	Battery, Lithium
2			Cabinet, Type 1	28			Plug, Hole (Models Without Front Panel Security)
	319-4794-02	1	300/400/600 Amp		517-0137	1	Type 1 Cabinet
	319-5150-02	1	800 Amp		517-0266	1	Type 3R, 4, and 12 Cabinets
3	338-3859	1	Harness, Wiring – Main – Level 2 Control (Includes Parts Marked +)	29	306-4690	1	Handle, Crank
4	323-1199	A/R	+ Pin, Contact	30	332-1414	1	Clamp, Loop
5	323-1317	1	+ Plug, Connector (6 Place)	31	870-2054	4	Nut, Locking – Hex Head (M6)
6	323-1200	A/R	+ Contact, Socket	32	856-0008	1	Washer, Lock W/EIT (5/16")
7	323-1253	1	+ Cap, Circuit (15 Place)	33	860-2008	2	Nut, Hex Head (M8)
8	323-1315	1	+ Cap, Connector (12 Place)	34	338-3858		Harness, Printed Circuit Board
9	323-1859	A/R	+ Contact, Socket				Level 2 Control
10	323-1856	1	+ Plug, Circuit (20 Place)				Utility-to-Genset (Includes Parts Marked ±)
11			Panel, Power (See Separate Page for Components)	35	323-1806-09	1	±Connector (18 Pin)
	315-0842-01	1	120V	36	323-1806-12	1	±Connector (24 Pin)
	315-0842-02	1	190, 208, 220, 240, 440, and 480V	37	323-1806-08	1	±Connector (16 Pin)
	315-0842-03	1	380 and 416V	38	323-3606	A/R	±Terminal, Receptacle
	315-0842-04	1	600V	39	323-1857	1	±Cap, Connector (20 Pin)
12	300-5151	1	Module, Digital Display	40	323-1858	A/R	±Pin, Contact
13			Board, Printed Circuit – Power Module	41	300-5147-02		Board, Printed Circuit – Digital Module – Level 2 Control
			Level 2 Control	42	406-0965	6	Blade, Lifting Hinge
	300-5149-01	1	120V	43	406-0966	3	Pin, Lifting Hinge
	300-5149-02	1	208, 220, 240, 440, 480V	44	508-1186	3	Bumper
	300-5149-03	1	600V	45	818-0231-02	18	Rivet, Pop
	300-5149-04	1	190, 380, 416V	46	406-0809	1	Handle, Locking (Includes Hardware and 2 Keys)
14	—	1	Charger, Battery (See Separate Pages for Components)	47	406-0933	1	Latch, Cam
15	300-5180	1	Board, Printed Circuit – Bar Graph	48	517-0135	6	Plug, Hole
16	315-0844-01	1	Cover, Power Panel	49			Membrane, Panel
17	815-0959-02	25	Screw, Pan Head (M3 x 7)				Type 1 Cabinet
18	226-4798	1	Lead		300-5186	1	Level 2 Control
19	862-0026-53	4	Nut, Hex (M5)				Without Meters–Bar Graph Display
20	815-0792-02	2	Screw, Pan Head (M4 x 8)		300-5271	1	With Meters–Bar Graph Display
21	332-1794	1	Tie, Cable				Type 3R, 4, and 12 Cabinets
22	870-2216	4	Standoff, Male Snap				Level 2 Control
23	306-4523	1	Cover, Printed Circuit Board		300-5392	1	Without Meters–Bar Graph Display
24			Bar Assembly, Neutral (See Separate Page for Components)		300-5393	1	With Meters–Bar Graph Display
			Mechanical Lugs	50	098-7987	1	Label, Overlay
	337-3511-01	1	300/400 Amp				
	337-3511-02	1	600 Amp	+ –	Parts Included in Main Wiring Harness (338-3859)		
			Compression Lugs	±	Parts Included in Printed Circuit Board Harness (338-3858)		
	337-3574	1	3/8 and 5/16 Stud				
	337-3575	1	1/2 Stud				

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				

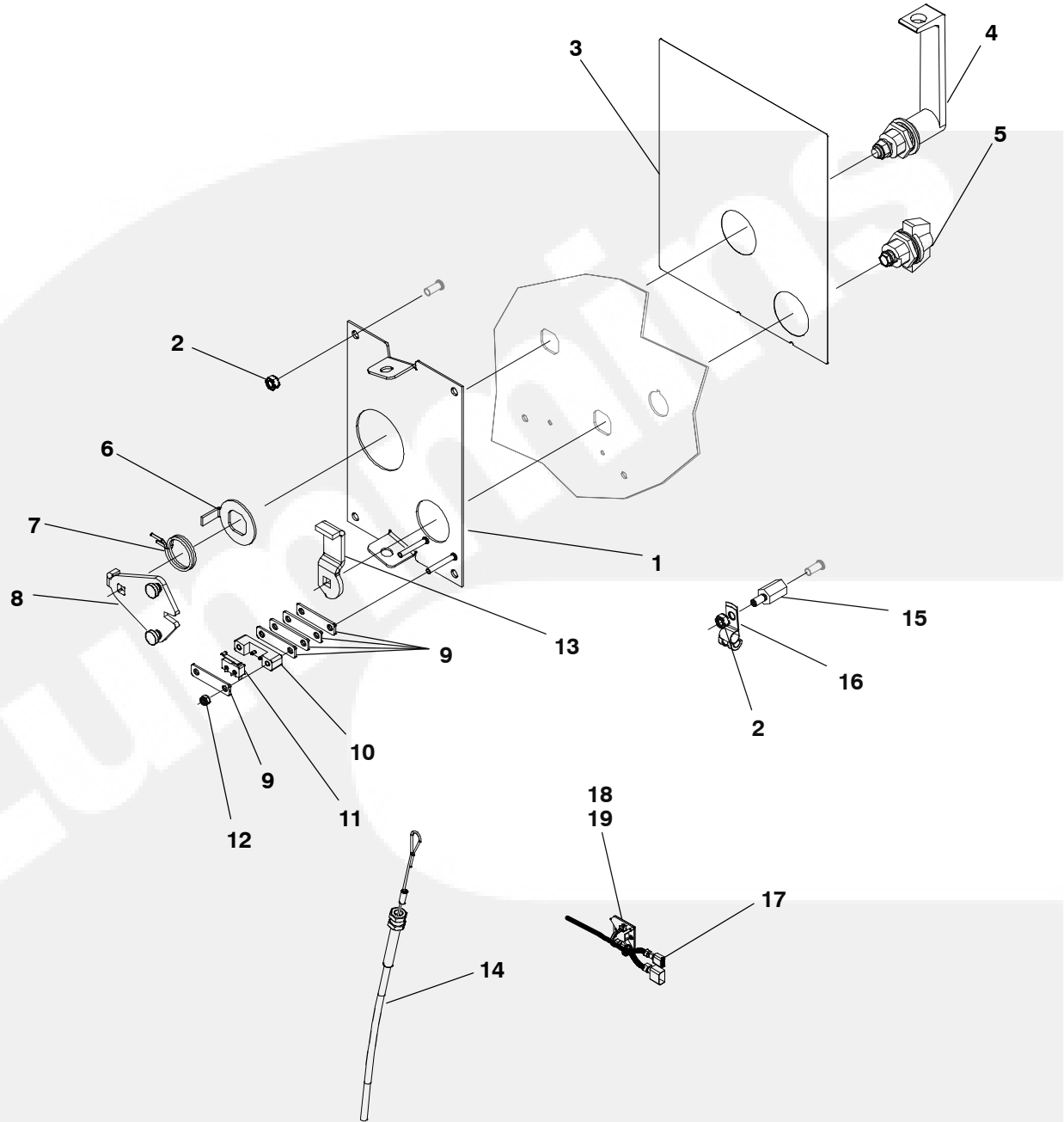
Power Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	315-0843-01	1	Bracket, Power Panel	8	332-3769	1	Block, Terminal (9 Place)
2	315-0838	1	Transformer, Power Panel 190, 208, 220, 240, 380, 415, 440 and 480V	9	815-0959-07	4	Screw, Recessed Pan Head (M3 x .5mm)
	315-0848	1	600V	10	098-7643	1	Label, Motor Disconnect Switch
3	315-0655-01	1	Transformer, Power Panel 120V	11	308-0406	1	Switch, Toggle
	315-0655-02	1	190, 208, 220, 240, 440 and 480V	12	307-2875	1	Relay, Control (24 VAC)
	315-0655-03	1	380, 415V	13			Harness, Wiring – Power Panel (Includes Parts Marked *) (P3 to K3 and T1, K3 to K3, T1, and T2, T1 to K3, T2 to K3, S1 to TB2, TB2 to GND, and P2 to TB2, S1, and GND)
4	315-0655-04	1	600V				All Except 120V
			Screw, Hex Head – Thread Forming (M6 x 1mm)				120V
	815-0753	2	120V		338-3864	1	
	815-0753	6	All Except 120V		338-3865	1	
5	815-0792-03	2	Screw, Pan Crescent Head (M4 x 0.7 x 10mm)	14	323-1317	1	* Plug, Connector
6	315-0847-01	1	Bracket, Power Panel (Adapter Plug)	15	323-1314	1	* Plug
7			Label, Information (TB2)	16	323-1199	A/R	* Pin, Contact
	098-7889	1	Marked "1" thru "9"	17	226-4870	2	Lead – All Except 120V
	098-7890	1	Marked "GND", "B+", and "RMT" for Genset 1 and Genset 2	18	332-2605	1	Jumper, Terminal
	098-7891	1	Marked "GND", "B+", "RMT", "RMT TEST", "XFER INH", "LD SHED", "COM", and "RXFER INH"				

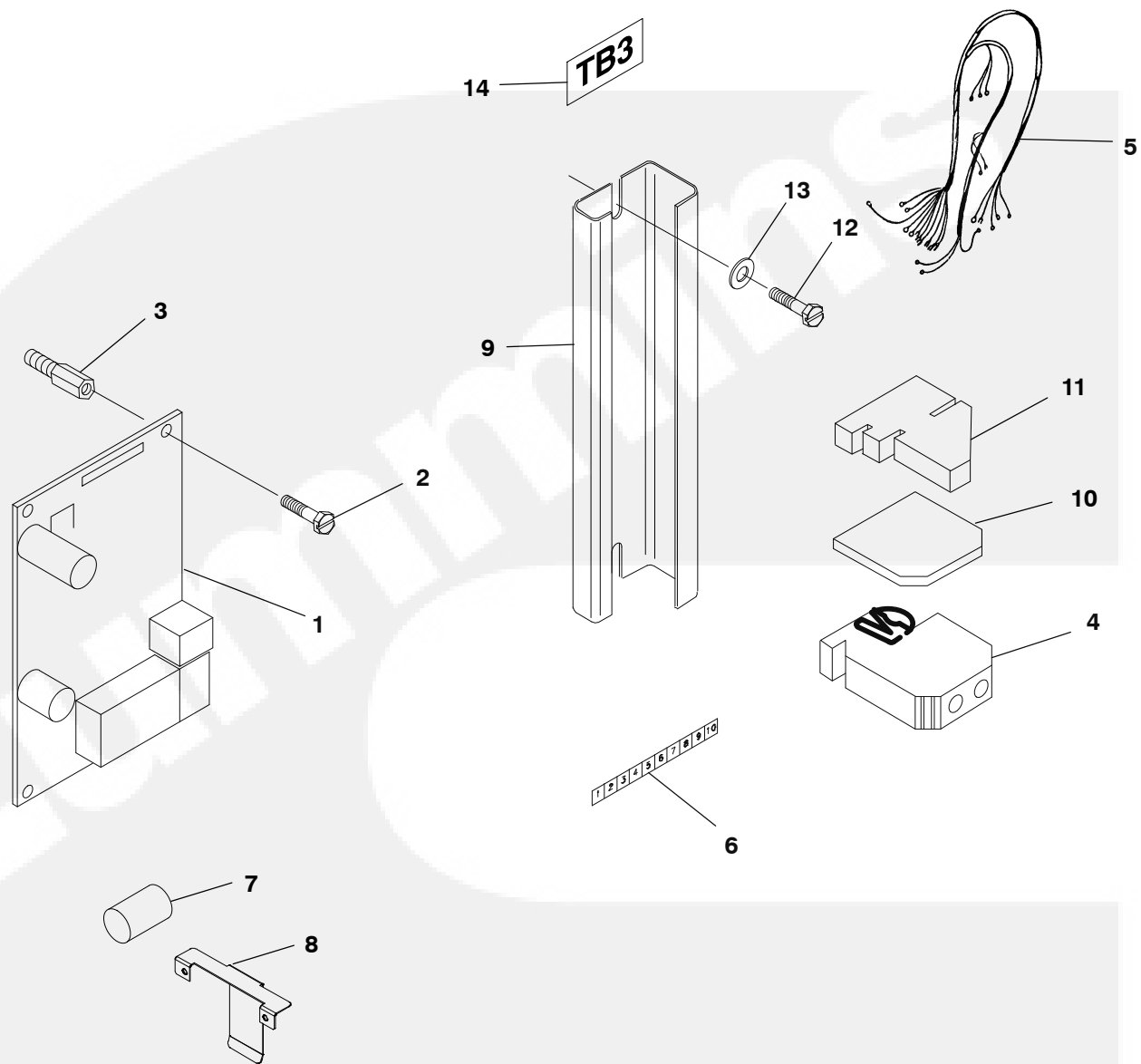
* – Parts Included in Power Panel Wiring Harness
(338-3864 or 338-3865)

External Manual Operator



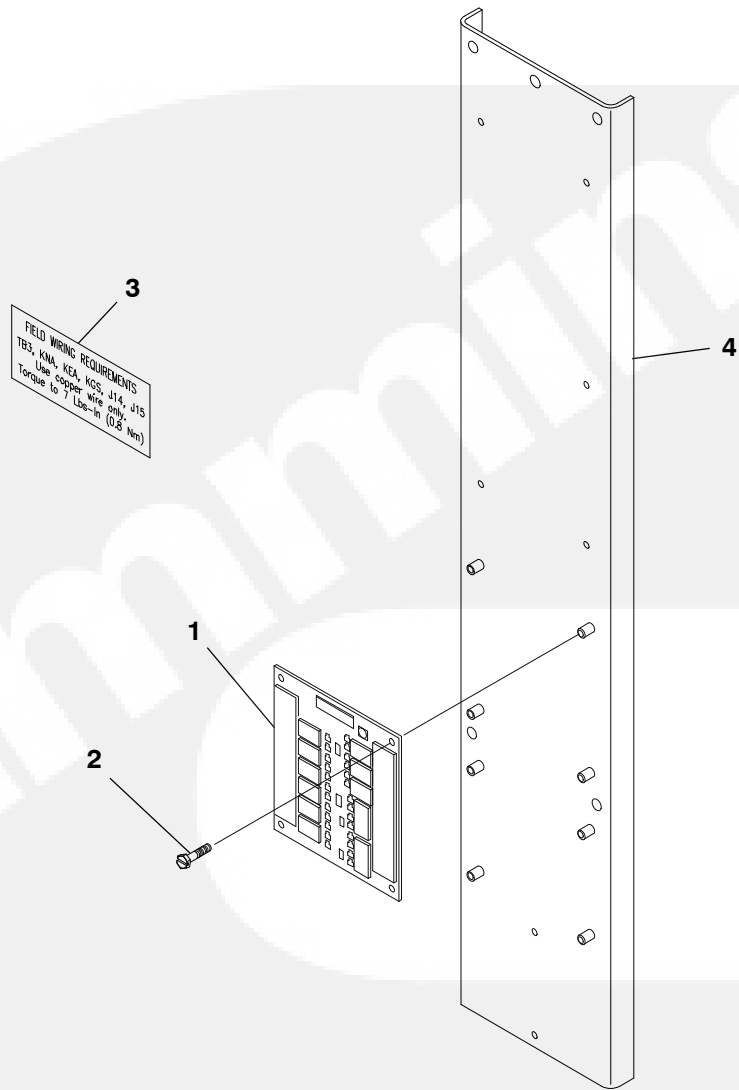
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-4686	1	Bracket, Panel	11	308-1099	1	Switch, Subminiature
2	870-0506	14	Nut, Nylon – Lock (M6 x 1)	12	870-2064-01	2	Nut, Nyloc
3	098-7967	1	Label, Information	13	306-4689	1	Bracket, Panel
4	406-1020	1	Handle, Door	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)

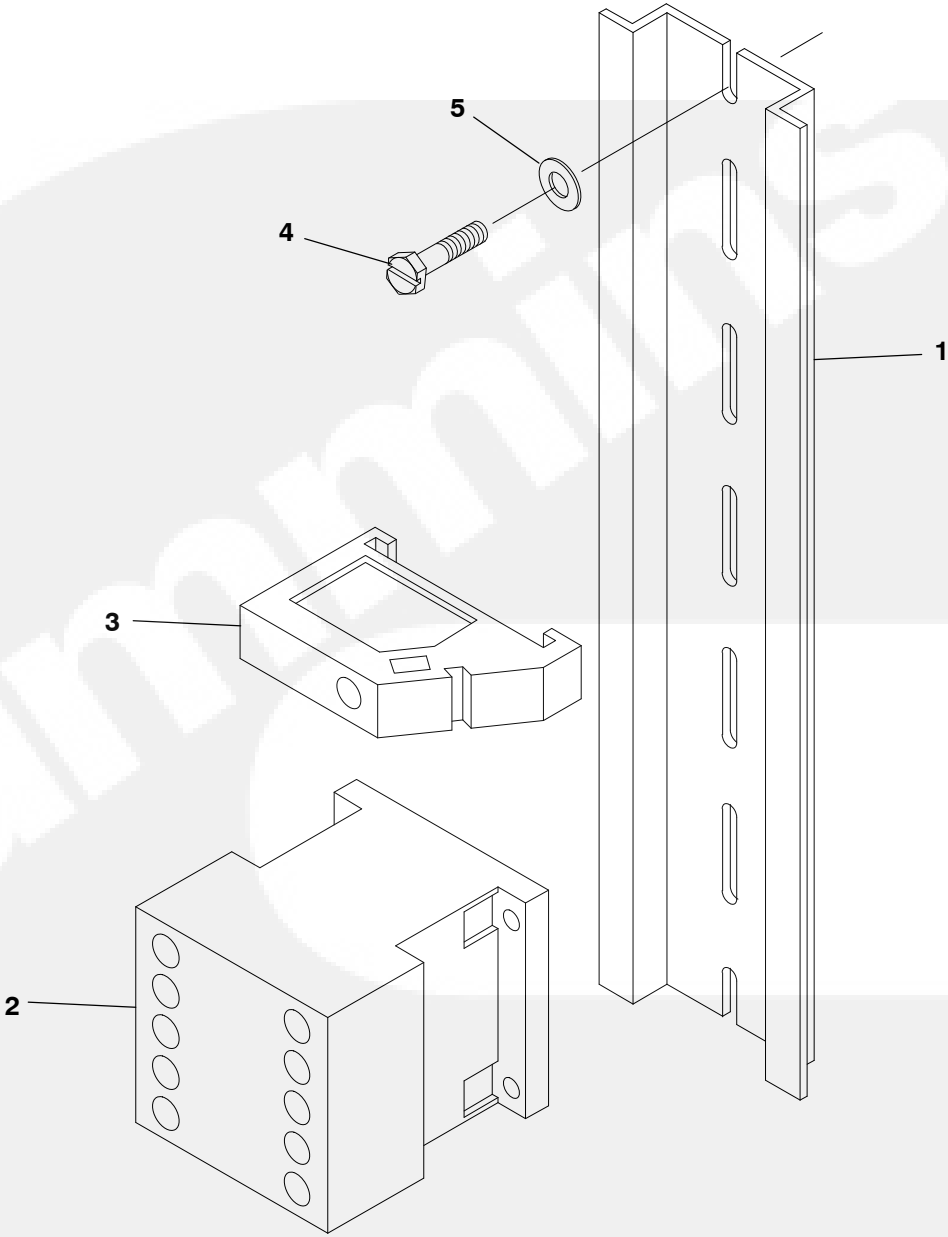
Relay Module



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

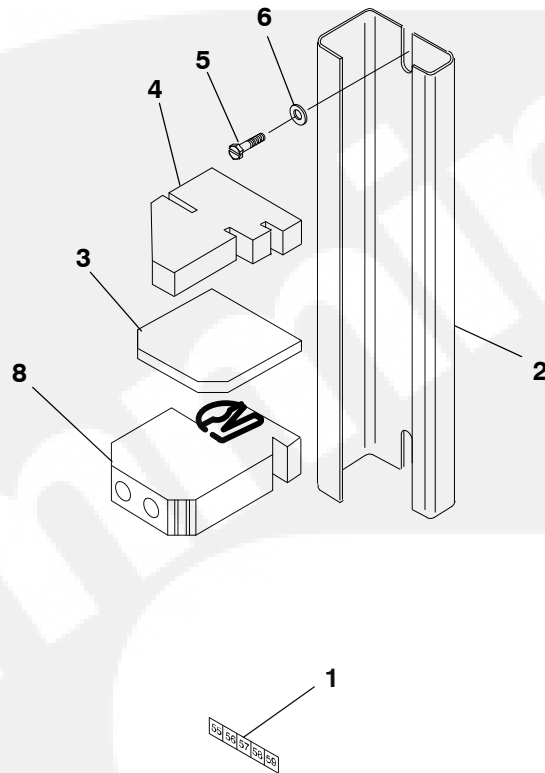


Auxiliary Relay
Utility-to-Genset and Genset-to-Genset Applications



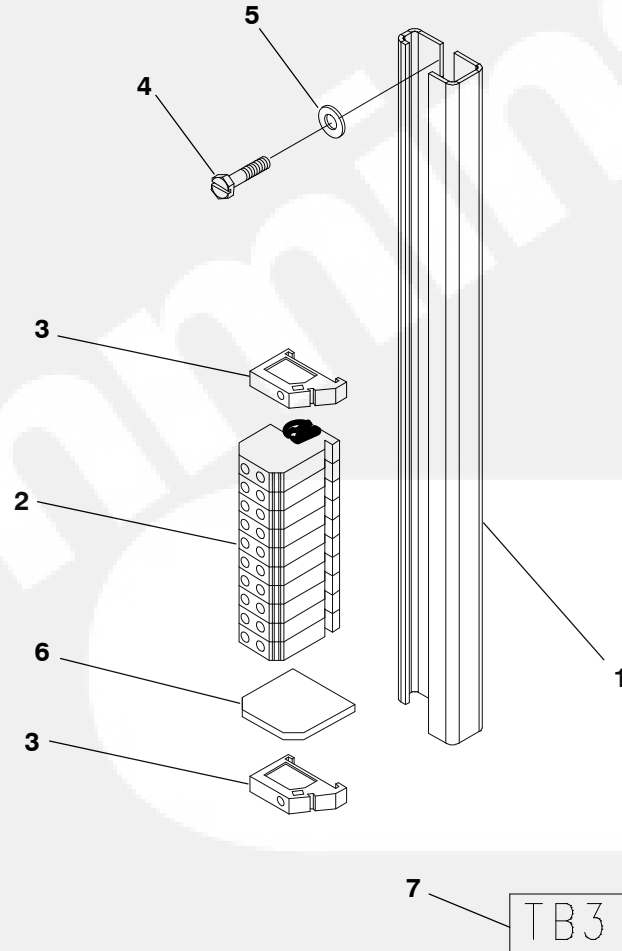
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-04	1	Rail, Terminal	3	332-2878	2	Bracket, End
2	307-2873	1	Relay, Control	4	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10mm)
	307-2874	1	12 VDC	5	526-0003	2	Washer, Flat
			24 VDC				

Dual Standby



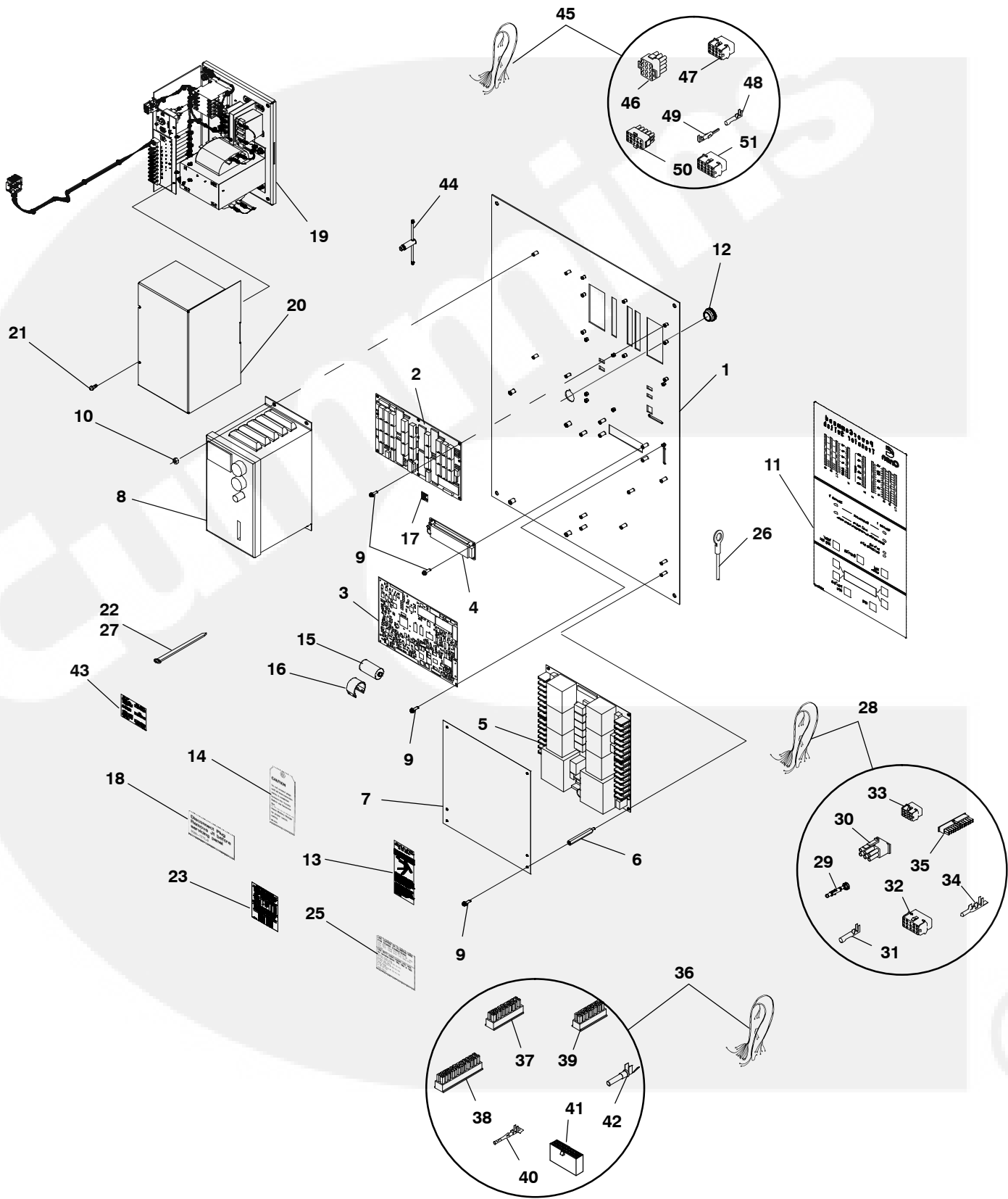
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2842-16	2	Tag, Terminal	6	526-0003	2	Washer, Flat
2	332-2837-09	1	Rail, Terminal Block	7	098-5710	1	Label, Terminal Block (TB3)
3	332-2841	1	Plate, End – Terminal	8	332-2836-01	5	Block, Terminal (Sectional)
4	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)				

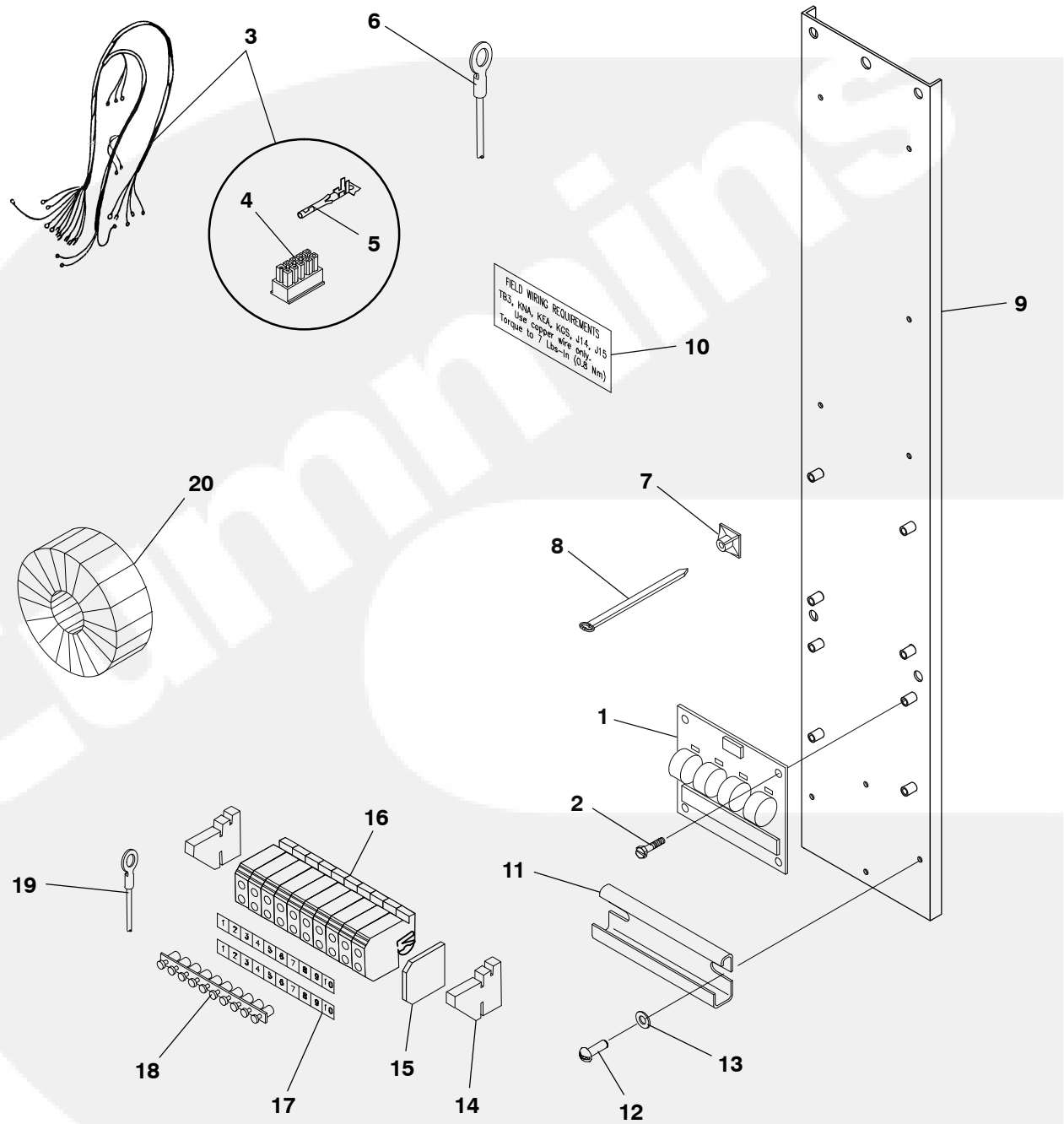
Open Construction



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	24		1	Transfer Switch (Not Illustrated)
2	300-5180	1	Board, Printed Circuit – Bar Graph				(See Separate Page for Components)
3	300-5147-02	1	Board, Printed Circuit – Digital Module – Level 2 Control	25	098-7505	1	Label, Customer Wiring
4	300-5151	1	Module, Digital Display	26	226-4798	1	Lead Assembly, ATS Sending
5			Board, Printed Circuit – Power Module	27	332-0942	A/R	Tie, Cable
			Level 2 Control	28	338-3859	1	Harness, Wiring – Main – Level 2 Control (Includes Parts Marked +)
	300-5149-01	1	120V	29	323-1199	A/R	+ Pin, Contact
	300-5149-02	1	208, 220, 240, 440, 480V	30	323-1317	1	+ Plug, Connector (6 Place)
	300-5149-03	1	600V	31	323-1200	A/R	+ Contact, Socket
	300-5149-04	1	190, 380, 416V	32	323-1253	1	+ Cap, Circuit (15 Place)
6	870-2216	4	Standoff, Male Snap	33	323-1315	1	+ Cap, Connector (12 Place)
7	306-4523	1	Cover, Printed Circuit Board	34	323-1859	A/R	+ Contact, Socket
8		1	Charger, Battery (See Separate Page for Components)	35	323-1856	1	+ Plug, Circuit (20 Place)
9	815-0959-02	23	Screw, Pan Head – Cross-Recessed (M3 x 7mm)	36	338-3858	1	Harness, Printed Circuit Board – Level 2 Utility-to-Genset (Includes Parts Marked +)
10	862-0026-53	4	Nut, Hex (M5)	37	323-1806-09	1	+ Connector (18 Pin)
11			Membrane, Panel	38	323-1806-12	1	+ Connector (24 Pin)
			Level 2 Control	39	323-1806-08	1	+ Connector (16 Pin)
	300-5392	1	Without Meters–Bar Graph Display	40	323-3606	A/R	+ Terminal, Receptacle
	300-5393	1	With Meters–Bar Graph Display	41	323-1857	1	+ Cap, Connector (20 Pin)
12	517-0266	1	Plug, Hole	42	323-1858	A/R	+ Pin, Contact
13	098-7735	2	Label, Cover (Danger)	43	098-7921	1	Label, Customer Wiring
14	098-5589	1	Tag, Caution	44	306-4690	1	Handle, Crank
15	416-1048	2	Battery, Lithium – 3V	45			Harness, Wiring – Extension (48" Long)
16	416-1049	2	Retainer, Battery		338-2219	1	P2 to J2 (Includes Parts Marked *)
17	098-7672	1	Label, Function		338-2220	1	P1 to J2 (Includes Parts Marked +)
18	098-7275	1	Label, Plug	46	323-1314	1	* Plug, Connector (12 Pin)
19			Panel, Power (See Separate Page for Components)	47	323-1315	1	* Cap, Connector (12 Pin)
	315-0842-01	1	120V	48	323-1200	A/R	* + Socket, Contact
	315-0842-02	1	190, 208, 220, 240, 440, 480V	49	323-1199	A/R	* + Pin, Contact
	315-0842-03	1	380 and 416V	50	323-1252	1	+ Plug, Connector (15 Pin)
	315-0842-04	1	600V	51	323-1253	1	+ Cap, Connector (15 Pin)
20	315-0844-01	1	Cover, Power Panel	+ – Parts Included in Main Wiring Harness (338-3859)			
21	815-0792-02	2	Screw, Pan Head (M4 x 8mm)	+ Parts Included in Printed Circuit Board Harness (338-3858)			
22	332-1794	1	Tie, Cable	* – Parts Included in Extension Wiring Harness (338-2219)			
23	098-6367	1	Label, Torque	+ Parts Included in Extension Wiring Harness (338-2220)			

Current Module

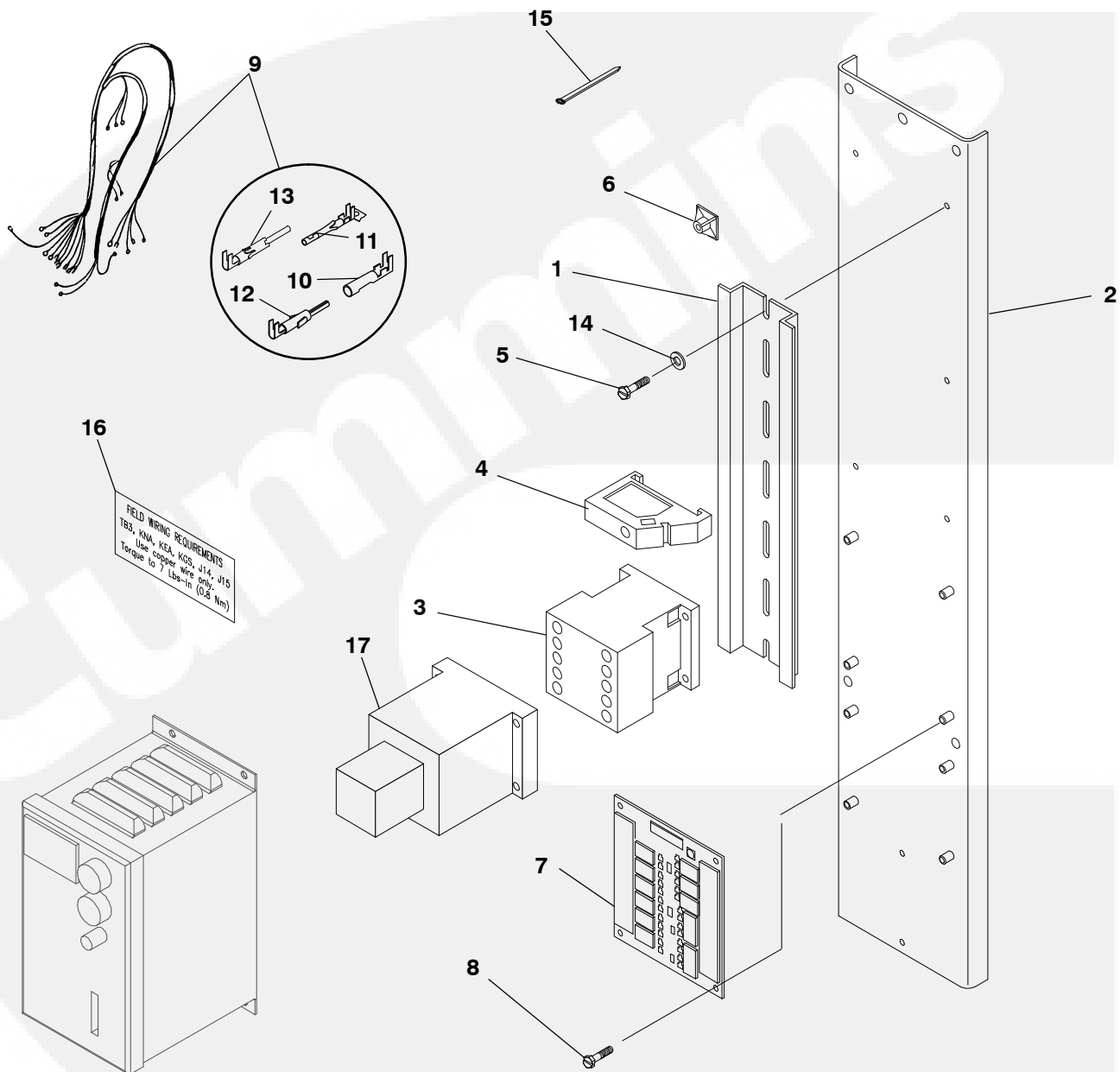


Current Module

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)

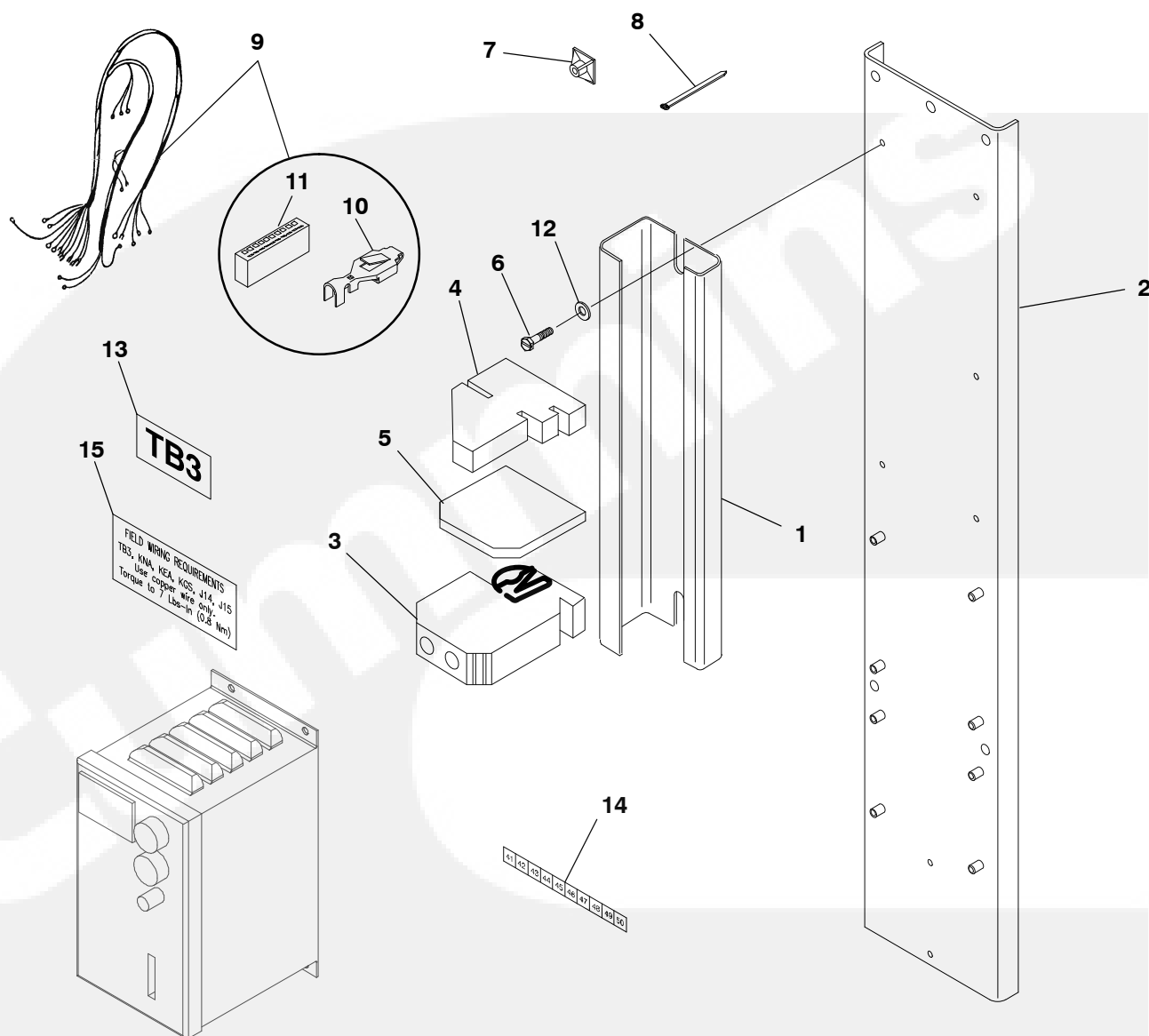


**Wiring Harness
Battery Charger
(Generator Set to Generator Set)**

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

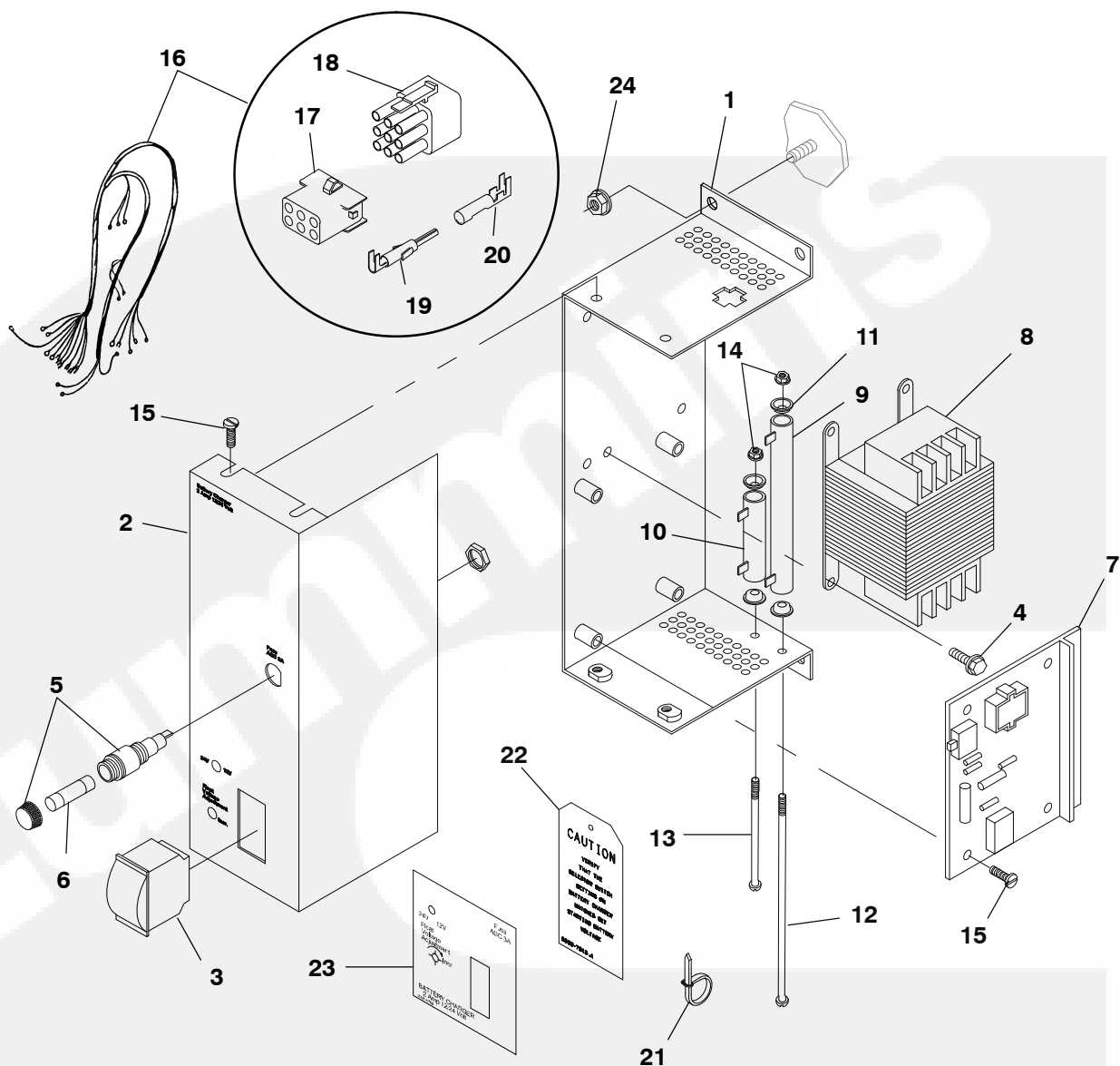


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
7	332-2420	A/R	Mount,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

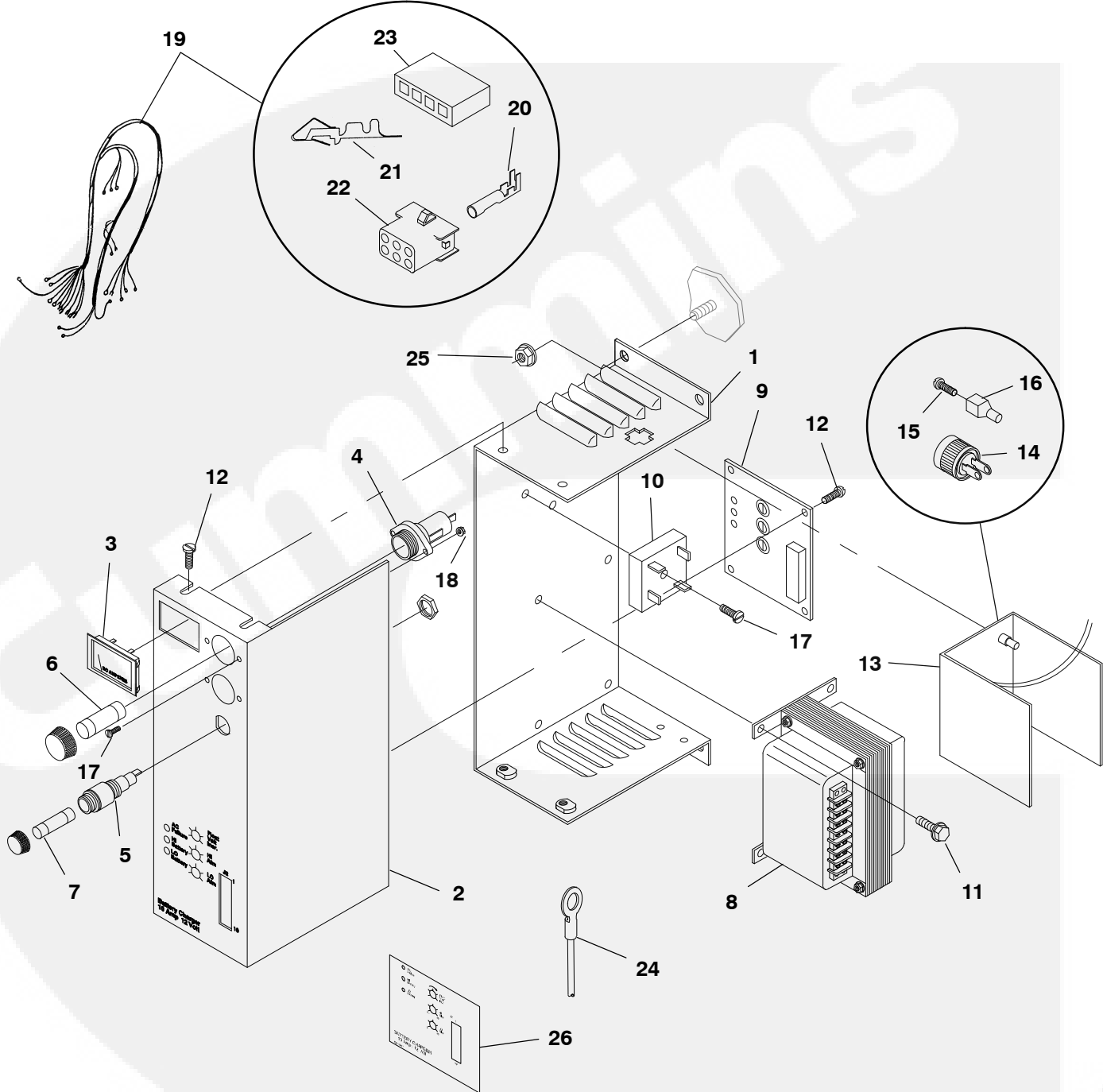
Battery Charger 2 Amp, 12/24 Volt



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



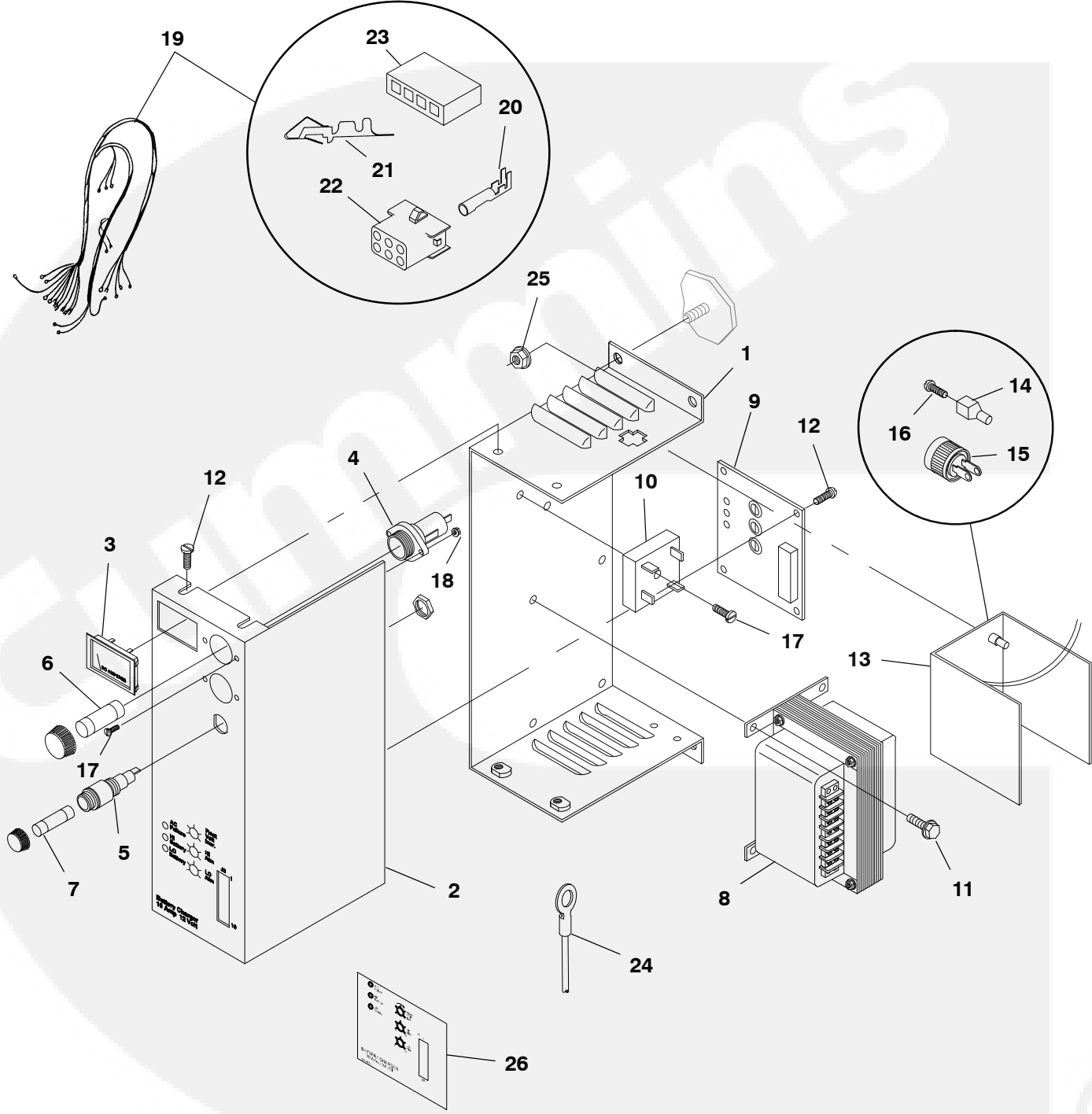
Battery Charger 10 Amp, 12 Volt

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

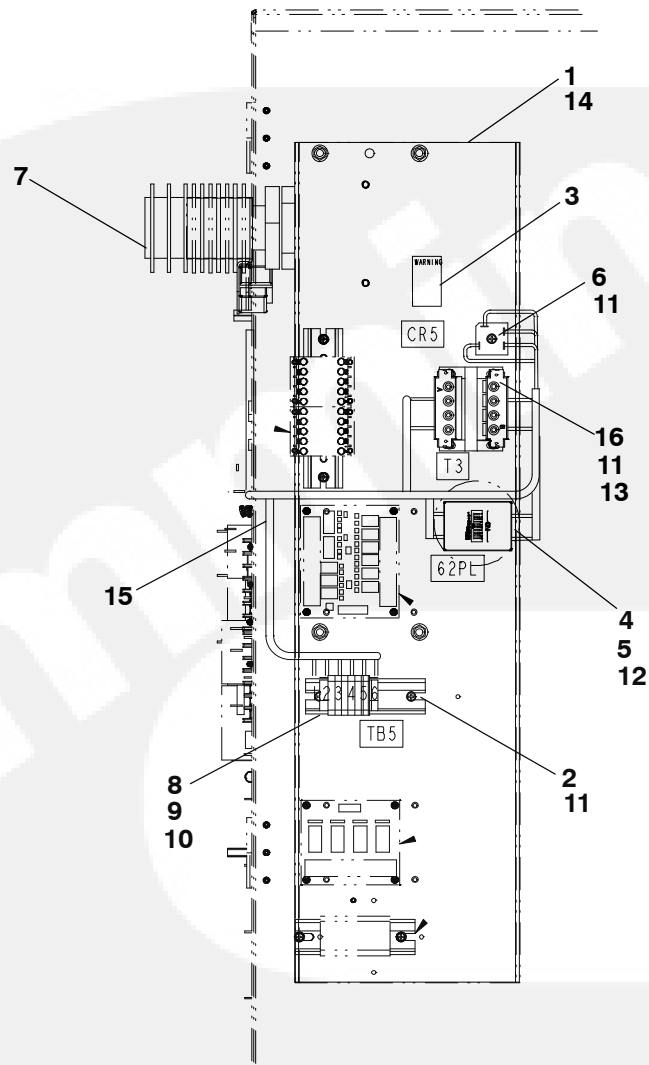


Battery Charger 10 Amp, 24 Volt

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

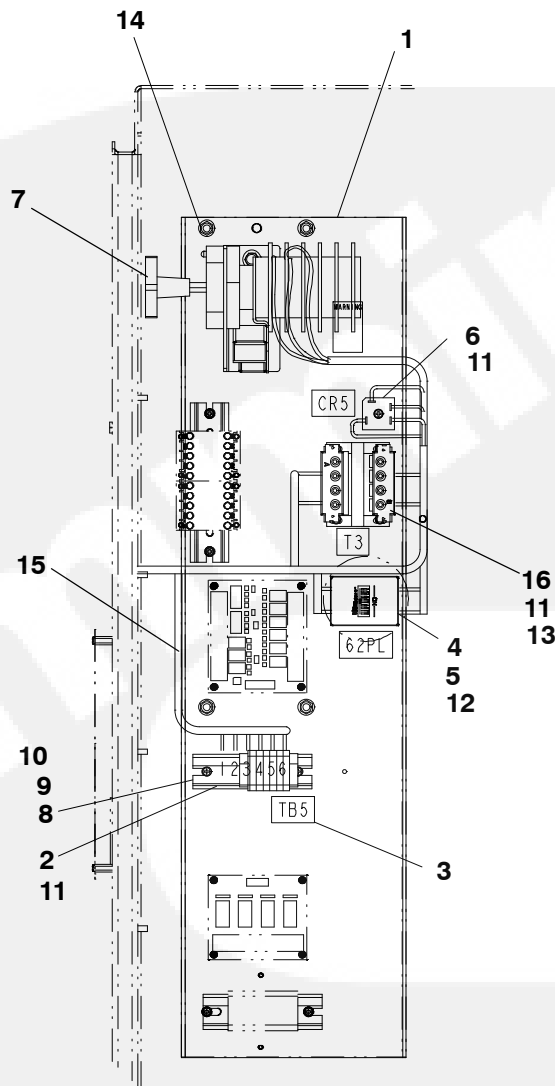
Protective Relay



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR CHPC 125-800 AMPS FAMILY NEMA I

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6745	1	Plate, Assy	11	815-0446	8	Screw, Round Head
2	332-2837-11	1	Rail, Terminal	12	815-0447	2	Screw, Round Head
3	098-8709	1	Label, Information	13	315-0839	1	Cover, Protection
4	307-3136	1	Base, Relay	14	870-0212	4	Cover, Protection
5	307-3135	1	Relay, Time	15	338-4983	1	Harness, Relay
6	305-0653	1	Rectifier, Bridge	16			Transformer, Power
7	307-2981-02	1	Relay, Lockout		315-0693-02	1	(25VA, 208V, 240V, 480V)
8	332-2839	2	Bracket, Terminal		315-0693-03	1	(25VA, 347V, 380V, 416V)
9	332-2836-01	6	Block, Terminal		315-0693-04	1	(25VA, 600V)
10	332-2841	1	Plate, End Terminal				

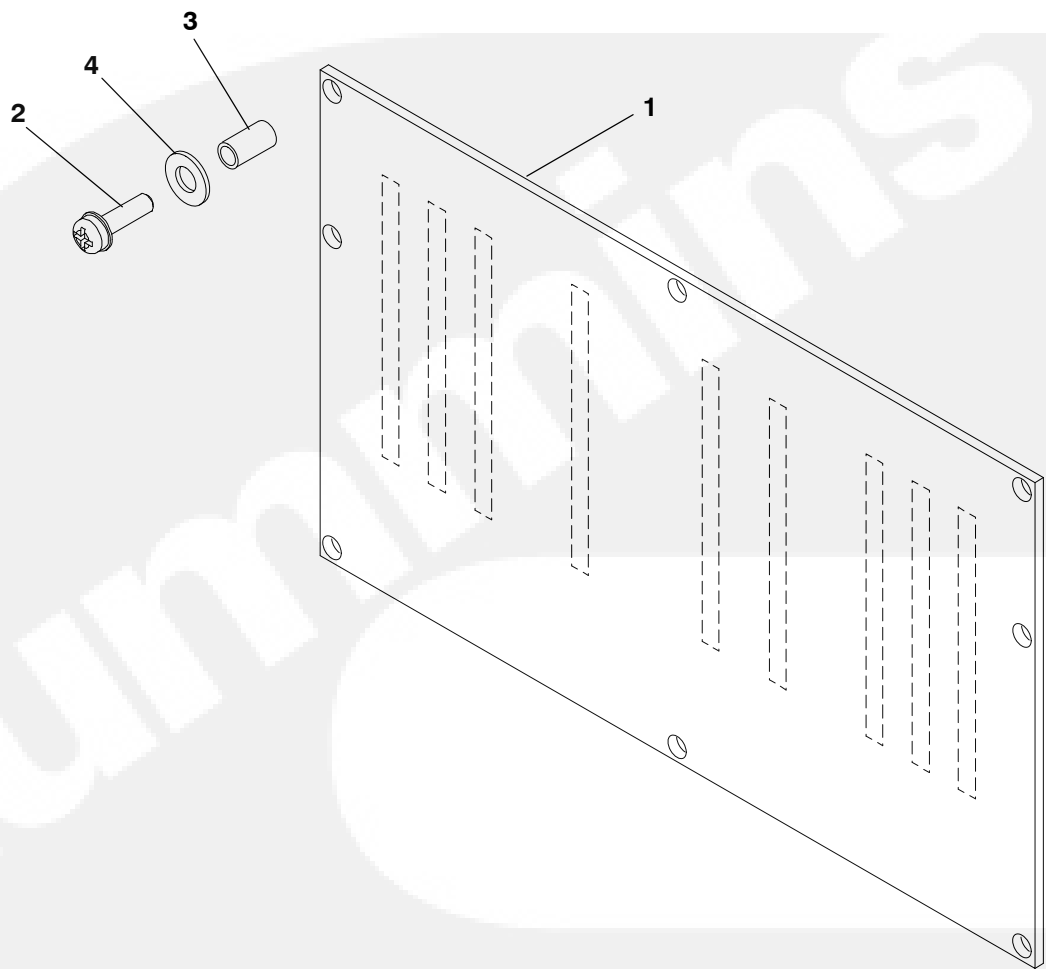
Protective Relay



PROTECTIVE RELAYS INSTALLATION (86-LOR & 62-PL)
FOR CHPC 125-800 AMPS 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	1	Plate, Assy	11	815-0446	8	Screw, Round Head
2	332-2837-11	1	Rail, Terminal	12	815-0447	2	Screw, Round Head
3	098-8709	1	Label, Information	13	315-0839	1	Cover, Protection
4	307-3136	1	Base, Relay	14	870-0212	4	Cover, Protection
5	307-3135	1	Relay, Time	15	338-4983	1	Harness, Relay
6	305-0653	1	Rectifier, Bridge	16		1	Transformer, Power
7	307-2981-02	1	Relay, Lockout		315-0693-02	1	(25VA, 208V, 240V, 480V)
8	332-2839	2	Bracket, Terminal		315-0693-03	1	(25VA, 347V, 380V, 416V)
9	332-2836-01	6	Block, Terminal		315-0693-04	1	(25VA, 600V)
10	332-2841	1	Plate, End Terminal				

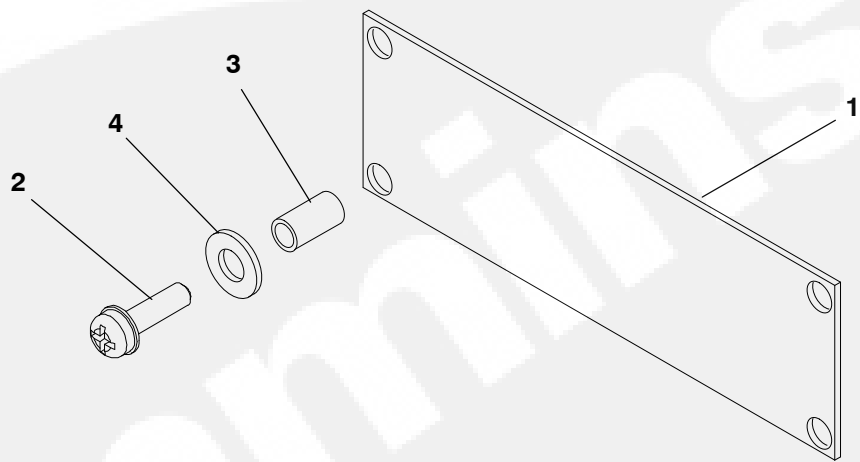
Bar Graph – Blank



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



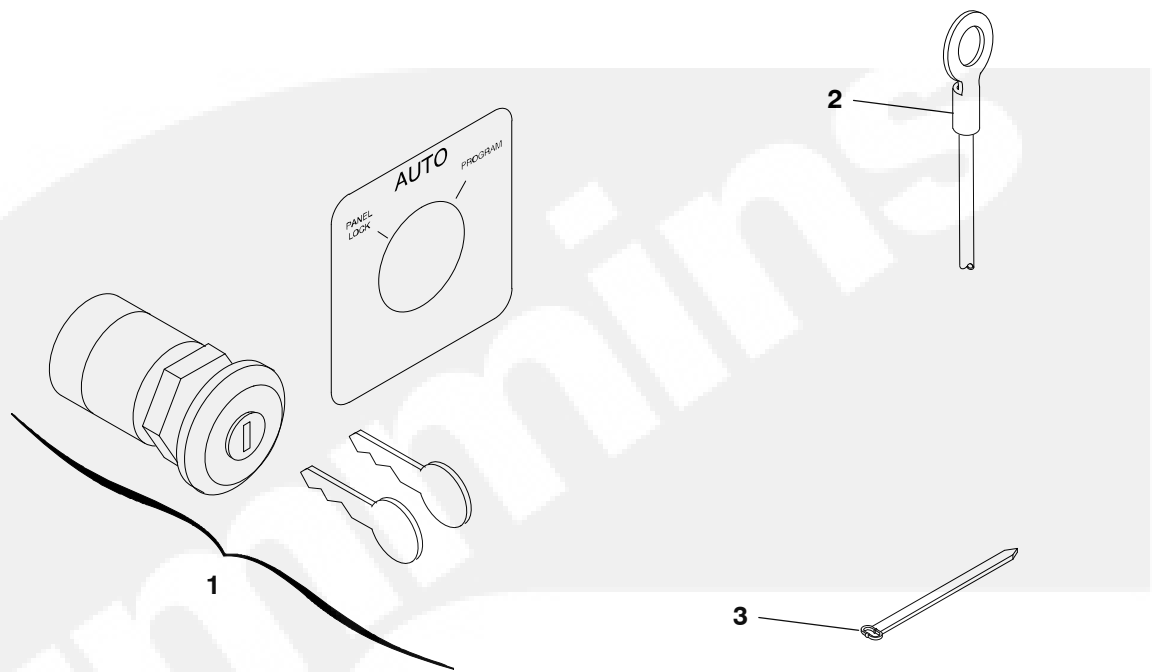
Digital Display – Blank



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
1	308-1094	1	Switch, Selector (Includes Two Position Key Switch, Two Keys, Adaptor Ring, and Label	2	226-4794-01	1	Lead 14" (Marked S20-2 - J27-5)
					226-4794-02	1	16" (Marked S20-2 - J27-11)
				3	332-0842	4	Tie, Cable

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
098-5589, 35, 44		226-4794-03, 46		304-0139, 50		306-4653, 37	
098-5708, 50		226-4798, 34, 44		305-0653, 52, 54, 55, 56		306-4656, 7, 9, 12	
098-5710, 38, 41, 42, 49		226-4814-01, 46		305-0781, 52, 54		306-4657, 12	
098-5777-01, 35		226-4814-02, 46		306-4471, 10, 11		306-4661, 12	
098-5797, 54		226-4814-03, 46		306-4482, 10, 11		306-4662, 12	
098-5808, 52		226-4814-04, 46		306-4490, 10		306-4686, 37	
098-6118, 35		226-4814-05, 46		306-4491, 7, 11		306-4688, 37	
098-6119, 35		226-4814-06, 46		306-4492, 7, 9		306-4689, 37	
098-6120, 35		226-4814-07, 46		306-4496, 7, 9		306-4690, 34, 44	
098-6367, 35, 44		226-4814-08, 46		306-4523, 34, 44		306-4699, 37	
098-6635, 35		226-4870, 36		306-4525, 7, 9, 10		306-4739-02, 10, 11	
098-6776, 35		300-2946, 50		306-4526, 7, 9, 11		306-4766, 9	
098-6944, 35		300-3160, 52		306-4532-04, 7		306-4767, 9, 15, 25, 26, 27	
098-7275, 35, 44		300-3244, 54		306-4532-05, 7		306-4771-02, 9	
098-7505, 35, 44		300-5147-02, 34, 44		306-4532-06, 7		307-2861-12, 48	
098-7506, 35		300-5149-01, 34, 44		306-4532-08, 9		307-2873, 40, 48	
098-7508, 35		300-5149-02, 34, 44		306-4532-09, 9		307-2874, 40	
098-7613, 35		300-5149-03, 34, 44		306-4532-10, 9		307-2875, 36	
098-7621, 39, 46, 48, 49		300-5149-04, 34, 44		306-4544-02, 7		307-2981-02, 55, 56	
098-7643, 36		300-5151, 34, 44		306-4545-02, 7, 13		307-3135, 55, 56	
098-7672, 35, 44		300-5152, 39, 48		306-4546-04, 7, 13		307-3136, 55, 56	
098-7735, 7, 9, 35, 44		300-5153, 38		306-4546-05, 7, 13		308-0406, 36	
098-7843, 50		300-5180, 34, 44		306-4546-06, 7, 13		308-1094, 59	
098-7889, 36		300-5186, 34		306-4547, 7, 9		308-1099, 25, 37	
098-7890, 36		300-5254, 46		306-4572-04, 7		315-0621-01, 50	
098-7891, 36		300-5271, 34		306-4572-05, 7		315-0621-02, 50	
098-7899, 35		300-5392, 34, 44		306-4572-06, 7		315-0621-03, 50	
098-7901, 35		300-5393, 34, 44		306-4572-08, 9		315-0621-04, 50	
098-7921, 35, 44		301-9990, 50		306-4572-09, 9		315-0655-01, 36	
098-7967, 37		301-9991, 50		306-4572-10, 9		315-0655-02, 36	
098-7987, 34		302-0807, 50		306-4573, 7, 9		315-0655-03, 36	
098-8709, 55, 56		302-1394, 46		306-4578, 37		315-0655-04, 36	
104-2013-01, 9		302-1395, 46		306-4581-01, 7, 9		315-0693-02, 55, 56	
104-2013-02, 9		302-1396, 46		306-4581-02, 7		315-0693-03, 55, 56	
170-4689, 7, 9		302-1809, 46		306-4600, 7		315-0693-04, 55, 56	
226-3554-02, 52, 54		302-1844, 52, 54		306-4601-02, 22, 24		315-0700, 52	
226-4794-01, 59		304-0015, 50		306-4627-02, 7		315-0701, 54	
226-4794-02, 59		304-0037, 50		306-4627-04, 7, 9			

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
315-0702, 52		319-5137-03, 9, 15, 25, 26, 27		323-3606, 34, 44		337-3434, 10, 11	
315-0703, 54		319-5150-02, 34		327-1307, 38		337-3511-01, 19, 34	
315-0704, 52		319-5154-02, 34		332-0842, 59		337-3511-02, 19, 34	
315-0705, 54		319-6745, 55, 56		332-0942, 37, 44, 46, 48, 49		337-3513-02, 19	
315-0706, 52		321-0127, 52, 54		332-1414, 34		337-3564-02, 25	
315-0707, 54		321-0153, 50		332-1473, 34		337-3565-02, 22	
315-0708, 52		321-0175, 50, 52, 54		332-1557, 15, 20		337-3566-02, 22	
315-0709, 54		321-0237, 52, 54		332-1794, 34, 44, 50		337-3567-02, 28	
315-0710, 52		321-0303-02, 52, 54		332-2420, 37, 46, 48, 49		337-3568-02, 24	
315-0711, 54		321-0304-01, 52		332-2463, 19, 28, 29		337-3569-02, 24	
315-0712, 52		321-0304-02, 52		332-2564, 20, 30, 31, 32		337-3570-02, 29	
315-0713, 54		321-0304-03, 52, 54		332-2605, 36		337-3574, 28, 34	
315-0838, 36		321-0304-04, 52, 54		332-2744-03, 19, 28, 29		337-3575, 29, 34	
315-0839, 55, 56		321-0304-05, 52, 54		332-2744-07, 20, 30, 31, 32		337-3633-02, 15, 25	
315-0842-01, 34, 44		321-0304-06, 54		332-2836-01, 38, 41, 55, 56		337-3634-02, 15	
315-0842-02, 34, 44		323-1199, 7, 9, 34, 36, 44, 48, 50		332-2836-02, 42, 46, 49		337-3637-02, 26	
315-0842-03, 34, 44		323-1200, 7, 9, 34, 44, 48, 50, 52, 54		332-2837-09, 38, 41, 42, 49		337-3638-02, 26	
315-0842-04, 34, 44		323-1252, 7, 9, 44		332-2837-11, 46, 55, 56		337-3639-02, 27	
315-0843-01, 36		323-1253, 34, 44		332-2839, 38, 41, 42, 46, 49, 55, 56		337-3640-02, 27	
315-0844-01, 34, 44		323-1291, 7, 9, 50		332-2841, 38, 41, 42, 46, 49, 55, 56		337-3641-02, 20, 30	
315-0847-01, 36		323-1302, 49, 52, 54		332-2842-11, 46		337-3642-02, 31	
315-0848, 36		323-1314, 36, 44		332-2842-15, 49		337-3643-02, 32	
319-0072, 52, 54		323-1315, 34, 44		332-2842-16, 38, 41		337-3644, 20	
319-0073, 52, 54		323-1317, 34, 36, 44		332-2843-04, 46		337-3648, 31	
319-3829, 7, 9		323-1318, 50, 52, 54		332-2878, 40, 48		337-3649, 32	
319-3943-01, 39, 46, 48, 49		323-1374-05, 52, 54		332-2879-04, 40, 48		337-3650, 30	
319-4011-02, 44		323-1374-10, 49		332-2879-04, 40, 48		338-2149, 50	
319-4139-01, 57		323-1703, 48		332-3606, 46, 48		338-2219, 44	
319-4140-01, 58		323-1806-05, 46		332-3657, 13, 19		338-2220, 44	
319-4648-04, 22, 24		323-1806-08, 34, 44		332-3658, 13, 19		338-2223, 52, 54	
319-4648-05, 22, 24		323-1806-09, 34, 44		332-3769, 36		338-2350, 49	
319-4648-06, 22, 24		323-1806-12, 34, 44		332-3874, 37		338-3836, 48	
319-4794-02, 34		323-1856, 34, 44		335-0195-01, 37		338-3858, 34, 44	
319-4796-02, 34		323-1857, 34, 44		337-3430, 10, 11		338-3859, 34, 44	
319-5137-01, 9, 15, 25, 26, 27		323-1858, 34, 44		337-3433, 10, 11		338-3860, 7, 9	
319-5137-02, 9, 15, 25, 26, 27		323-1859, 34, 44				338-3861, 7, 9	
						338-3864, 36	
						338-3865, 36	

Numerical Index

<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>	<u>Part No.</u>	<u>Page</u>
338-3884-01, 46		526-0077, 20, 30, 31, 32		813-0112, 50		860-2008, 34	
338-3886, 38		526-0257, 57, 58		813-0116, 50		860-2009, 15	
338-4305, 37		526-2292, 12		815-0446, 55, 56		862-0015, 19	
338-4983, 55, 56		543-0026, 22		815-0447, 55, 56		862-0026-53, 34, 44, 50,	
364-0003, 52, 54		543-0027, 24		815-0539, 52, 54		52, 54	
406-0809, 34		543-0042, 25		815-0753, 7, 9, 36		862-0033, 20	
406-0933, 34		543-0043, 26		815-0792-02, 34, 44		870-0131, 50	
406-0965, 34		543-0044, 27		815-0792-03, 36		870-0212, 55, 56	
406-0966, 34		800-0027, 19, 28, 29		815-0902, 50, 52, 54		870-0221, 52, 54	
406-1020, 37		800-0031, 19		815-0955-03, 38, 40, 41,		870-0263, 52, 54	
406-1021, 37		800-0050, 20, 30, 31, 32		42, 46, 48, 49		870-0506, 37	
416-1048, 34, 38, 44		800-0053, 20		815-0959-02, 34, 39, 44,		870-2054, 34	
416-1049, 34, 44		800-2060, 13, 15, 22, 24,		46, 48, 57, 58		870-2056, 7, 9	
416-1179, 38		25, 26, 27		815-0959-03, 38		870-2064-01, 37	
506-0004, 37		800-2090, 15		815-0959-07, 36		870-2159, 7, 9	
508-1186, 34		800-3045-04, 7		815-0979-02, 7, 9		870-2213-02, 38	
516-0264, 12		800-3045-05, 7		818-0231-02, 34		870-2216, 34, 44	
517-0135, 34		800-3045-06, 7		821-0040, 50, 52, 54		870-2218-02, 57, 58	
517-0137, 34		800-3045-07, 9		851-0022, 15, 20, 30, 31,		870-2235, 12	
517-0266, 34, 44		800-3045-08, 9		32		872-0012, 37	
526-0003, 38, 40, 41, 42,		800-3045-09, 9		851-0028, 13, 15, 19, 22,			
46, 48, 49		809-0035, 52, 54		24, 25, 26, 27, 28, 29			
				856-0008, 34			

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