

Parts Manual

Transfer Switch

1200-3000 Amps

BTPCE (Spec A)

BTPCF (Spec A)

BTPCG (Spec A)

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

Feature Options

Code	Description	Code	Description
A028	3-Pole Switch	L202	Auxiliary Relay – Emergency Position – 12 VDC
A029	4-Pole Switch	L203	Auxiliary Relay – Normal Position – 12 VDC
A035	Utility to Generator Set Applications	L204	Auxiliary Relay – Generator Start – 12 VDC
A036	Utility to Utility Applications	M003	Terminal Block – 30 Points
A041	One Phase – 2 or 3 wire	M007	Load Shed
A042	Three Phase – 3 or 4 wire	M017	Security – Front Panel
A044	Frequency – 60 Hz	M018	Display – Digital
A045	Frequency – 50 Hz	M020	Communications – Lonworks
A046	Listing – UL	M022	Monitoring – Load
B001	Cabinet – Type 1	M023	Module – Relay Signal
B002	Cabinet – Type 3R	N002	Terminal Block – Battery Charger Alarm
B003	Cabinet – Type 4	N008	Module – Alarm
B008	Cabinet – 3-Pole Extension	R021	Voltage – 208
B009	Cabinet – 4-Pole Extension	R022	Voltage – 220
B010	Cabinet – Type 12	R023	Voltage – 240
C024	Control – Level 2	R024	Voltage – 380
D009	Meters – Bar Graph Display	R025	Voltage – 416
K001	Battery Charger – 2 Amp, 12/24V	R026	Voltage – 480
K002	Battery Charger – 10 Amp, 12V	R027	Voltage – 600
K003	Battery Charger – 10 Amp, 24V	R035	Voltage – 440
L101	Auxiliary Relay – 24 VDC Coil	R038	Voltage – 190
L102	Auxiliary Relay – Emergency Position – 24 VDC	S057	Current Rating – 1200 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC	S058	Current Rating – 1600 Amps
L104	Auxiliary Relay – Generator Start – 24 VDC	S059	Current Rating – 2000 Amps
L201	Auxiliary Relay – 12 VDC Coil	S060	Current Rating – 3000 Amps

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Index

A

Adapter, Bay, **13**
Alarm, Battery Charger, **26**
Ammeter – DC – 10 Amp, 12 Volt Battery Charger, **29**
Ammeter – DC – 10 Amp, 24 Volt Battery Charger, **31**
Ammeter – DC – 2 Amp, 12/24 Volt Battery Charger, **27**

B

Bar, Neutral – 1200 Amp – 3 Pole – Type 1 Cabinet, **15**
Bar, Neutral – 1200 Amp – 3 Pole – Type 3R, 4, 12 Cabinet, **14**
Bar, Neutral – 1600/2000/3000 Amp – 3 Pole, **16**
Block, Terminal, **36**
Block, Terminal – Battery Charger Alarm, **26**
Block, Terminal – Network Module, **38**
Board, Printed Circuit – 10 Amp, 12 Volt Battery Charger, **29**
Board, Printed Circuit – 10 Amp, 24 Volt Battery Charger, **31**
Board, Printed Circuit – 2 Amp, 12/24 Volt Battery Charger, **27**
Board, Printed Circuit – Bar Graph – Type 1 – 1200 Amp, **19**
Board, Printed Circuit – Bar Graph – Type 1 – 1600/2000/3000 Amp, **23**
Board, Printed Circuit – Bar Graph – Type 3R, 4, 12 – 1200 Amp, **21**
Board, Printed Circuit – Bar Graph – Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Board, Printed Circuit – Current Transformer Module, **39**
Board, Printed Circuit – Digital – Type 1 – 1200 Amp, **19**
Board, Printed Circuit – Digital – Type 1 – 1600/2000/3000 Amp, **23**
Board, Printed Circuit – Digital – Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Board, Printed Circuit – Network Module, **38**

Board, Printed Circuit – Power Module – Type 1 – 1200 Amp, **19**
Board, Printed Circuit – Power Module – Type 1 – 1600/2000/3000 Amp, **23**
Board, Printed Circuit – Power Module – Type 3R, 4, 12 – 1200 Amp, **21**
Board, Printed Circuit – Power Module – Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Board, Printed Circuit – Relay Module, **32 , 37**
Bracket, End – Auxiliary Relay, **35**
Bracket, End – Battery Charger Alarm, **26**
Bracket, End – Terminal – Network Module, **38**

C

Cabinet – Type 1 – 1200 Amp, **19**
Cabinet – Type 1 – 1600/2000/3000 Amp, **23**
Cabinet – Type 3R, 4, 12 – 1200 Amp, **21**
Cabinet – Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Charger, Battery – 10 Amp, 12 Volt, **29**
Charger, Battery – 10 Amp, 24 Volt, **31**
Charger, Battery – 2 Amp, 12/24 Volt, **27**
Connector, Neutral Bar – Ground Strip – 1200 Amp, **33**
Cover, Bar Graph Display – Blank, **43**
Cover, Charger – 10 Amp, 12 Volt Battery Charger, **29**
Cover, Charger – 10 Amp, 24 Volt Battery Charger, **31**
Cover, Charger – 2 Amp, 12/24 Volt Battery Charger, **27**

F

Fuse – 10 Amp, 12 Volt Battery Charger, **29**
Fuse – 10 Amp, 24 Volt Battery Charger, **31**
Fuse – 2 Amp, 12/24 Volt Battery Charger, **27**

H

Harness, Wiring – 10 Amp, 12 Volt Battery Charger, **29**
Harness, Wiring – 10 Amp, 24 Volt Battery Charger, **31**

Index

Harness, Wiring – Battery Charger Alarm, **26**
Harness, Wiring – Current Transformer Module, **39**
Harness, Wiring – Network Module, **38**
Harness, Wiring – Relay Module, **37**
Holder, Fuse – 10 Amp, 12 Volt Battery Charger, **29**
Holder, Fuse – 10 Amp, 24 Volt Battery Charger, **31**
Holder, Fuse – 2 Amp, 12/24 Volt Battery Charger, **27**

L

Labels, **45**
Load Shed, **32**
Lug, Solderless – Ground Strip – 1200 Amp, **33**
Lug, Solderless – Ground Strip – 1600/2000/3000 Amp, **34**
Lugs – 1600/2000/3000 Amp, **41**

M

Membrane, Panel – Type 1 – 1200 Amp, **19**
Membrane, Panel – Type 1 – 1600/2000/3000 Amp, **23**
Membrane, Panel – Type 3R, 4, 12 – 1200 Amp, **21**
Membrane, Panel, Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Module, Current Transformer, **39**
Module, Digital Display – Type 1 – 1200 Amp, **19**
Module, Digital Display – Type 1 – 1600/2000/3000 Amp, **23**
Module, Digital Display – Type 3R, 4, 12 – 1200 Amp, **21**
Module, Digital Display – Type 3R, 4, 12 – 1600/2000/3000 Amp, **25**
Module, Network, **38**
Module, Relay, **37**

P

Plate, Accessory Control, **17**
Plate, End – Terminal – Network Module, **38**

R

Rail, Terminal – Auxiliary Relay, **35**
Rail, Terminal Block – Battery Charger Alarm, **26**
Rail, Terminal Block – Network Module, **38**
Rectifier, Bridge – 10 Amp, 12 Volt Battery Charger, **29**
Rectifier, Bridge – 10 Amp, 24 Volt Battery Charger, **31**
Rectifier, Gate – 10 Amp, 12 Volt Battery Charger, **29**
Rectifier, Gate – 10 Amp, 24 Volt Battery Charger, **31**
Relay, Auxiliary, **35**
Relay, Control – Auxiliary Relay, **35**
Relay, Power – Accessory Control Plate, **17**
Relay, Power – Load Shed, **32**
Resistor, Fixed – 2 Amp, 12/24 Volt Battery Charger, **27**

S

Strip, Ground – 1200 Amp, **33**
Strip, Ground – 1600/2000/3000 Amp, **34**
Switch, Bypass, **8**
Switch, Selector – Security, **42**

T

Transformer – 10 Amp, 12 Volt Battery Charger, **29**
Transformer – 10 Amp, 24 Volt Battery Charger, **31**
Transformer – 2 Amp, 12/24 Volt Battery Charger, **27**
Transformer, Current, **39**
Transformer, Power – Accessory Control Plate, **17**

Index

W

Wrapper, Charger – 2 Amp, 12/24 Volt Battery
Charger, **27**

Wrapper, Charger – 10 Amp, 12 Volt Battery
Charger, **29**

Wrapper, Charger – 10 Amp, 24 Volt Battery
Charger, **31**



Abbreviations

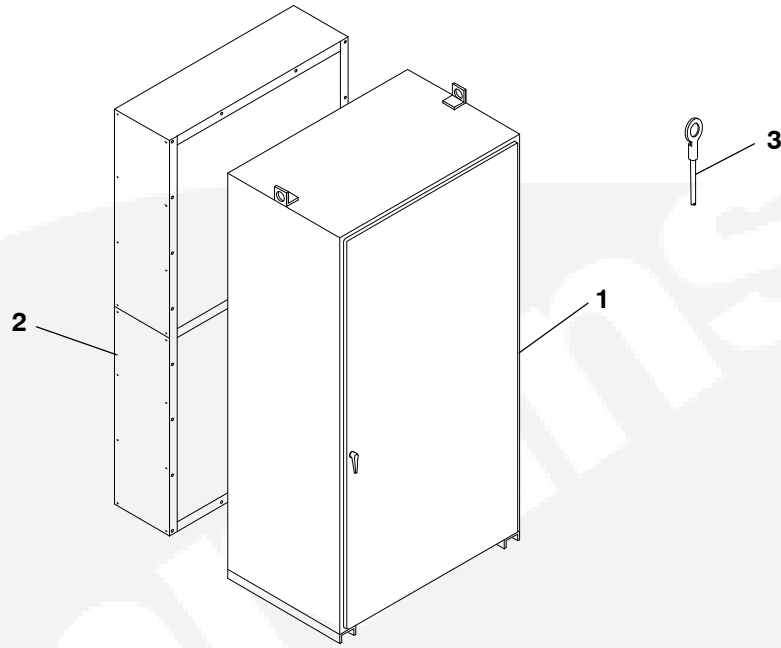
Some of the following abbreviations may be used throughout this Parts Catalog:

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

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Bypass Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bypass Switch				Without Adapter Bay
			1200 Amp				50 Hz
			Type 1				220 VAC
			3 Pole				440 VAC
			50 Hz				380-416 VAC
	306-4351-02	1	220 VAC		306-4359-02	1	220 VAC
	306-4351-03	1	440 VAC		306-4359-03	1	440 VAC
	306-4351-04	1	380-416 VAC		306-4359-04	1	380-416 VAC
			60 Hz				60 Hz
	306-4351-01	1	280 VAC		306-4359-01	1	208 VAC
	306-4351-02	1	240 VAC		306-4359-02	1	240 VAC
	306-4351-03	1	480 VAC		306-4359-03	1	480 VAC
	306-4351-04	1	380-416 VAC		306-4359-04	1	380-416 VAC
	306-4351-05	1	600 VAC		306-4359-05	1	600 VAC
			4 Pole				4 Pole
			50 Hz				With Adapter Bay
	306-4355-02	1	220 VAC		306-4371-07	1	220 VAC
	306-4355-03	1	440 VAC		306-4371-08	1	440 VAC
	306-4355-04	1	380-416 VAC		306-4371-09	1	380-416 VAC
			60 Hz				60 Hz
	306-4355-01	1	208 VAC		306-4371-06	1	208 VAC
	306-4355-02	1	240 VAC		306-4371-07	1	240 VAC
	306-4355-03	1	480 VAC		306-4371-08	1	480 VAC
	306-4355-04	1	380-416 VAC		306-4371-09	1	380-416 VAC
	306-4355-05	1	600 VAC		306-4371-10	1	600 VAC
			Type 3R				Without Adapter Bay
			3 Pole				50 Hz
			With Adapter Bay				220 VAC
			50 Hz				440 VAC
	306-4359-07	1	220 VAC		306-4371-02	1	380-416 VAC
	306-4359-08	1	440 VAC		306-4371-03	1	220 VAC
	306-4359-09	1	380-416 VAC		306-4371-04	1	440 VAC
			60 Hz				60 Hz
	306-4359-06	1	208 VAC		306-4371-01	1	208 VAC
	306-4359-07	1	240 VAC		306-4371-02	1	240 VAC
	306-4359-08	1	480 VAC		306-4371-03	1	480 VAC
	306-4359-09	1	380-416 VAC		306-4371-04	1	380-416 VAC
	306-4359-10	1	600 VAC		306-4371-05	1	600 VAC

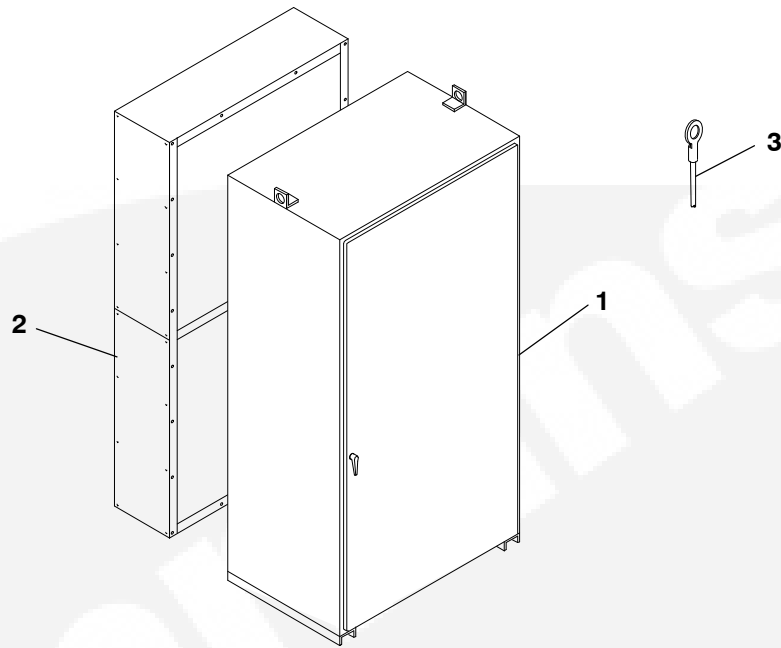
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Bypass Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				Type 12 3 Pole			
				Type 4 3 Pole			
				With Adapter Bay			
				50 Hz			
306-4360-07	1		220 VAC	306-4361-07	1		220 VAC
306-4360-08	1		440 VAC	306-4361-08	1		440 VAC
306-4360-09	1		380-416 VAC	306-4361-09	1		380-416 VAC
				60 Hz			
306-4360-06	1		208 VAC	306-4361-06	1		208 VAC
306-4360-07	1		240 VAC	306-4361-07	1		240 VAC
306-4360-08	1		480 VAC	306-4361-08	1		480 VAC
306-4360-09	1		380-416 VAC	306-4361-09	1		380-416 VAC
306-4360-10	1		600 VAC	306-4361-10	1		600 VAC
				Without Adapter Bay			
				50 Hz			
306-4360-02	1		220 VAC	306-4361-02	1		220 VAC
306-4360-03	1		440 VAC	306-4361-03	1		440 VAC
306-4360-04	1		380-416 VAC	306-4361-04	1		380-416 VAC
				60 Hz			
306-4360-01	1		208 VAC	306-4361-01	1		208 VAC
306-4360-02	1		240 VAC	306-4361-02	1		240 VAC
306-4360-03	1		480 VAC	306-4361-03	1		480 VAC
306-4360-04	1		380-416 VAC	306-4361-04	1		380-416 VAC
306-4360-05	1		600 VAC	306-4361-05	1		600 VAC
				4 Pole			
				With Adapter Bay			
				50 Hz			
306-4372-07	1		220 VAC	306-4373-07	1		220 VAC
306-4372-08	1		440 VAC	306-4373-08	1		440 VAC
306-4372-09	1		380-416 VAC	306-4373-09	1		380-416 VAC
				60 Hz			
306-4372-06	1		208 VAC	306-4373-06	1		208 VAC
306-4372-07	1		240 VAC	306-4373-07	1		240 VAC
306-4372-08	1		480 VAC	306-4373-08	1		480 VAC
306-4372-09	1		380-416 VAC	306-4373-09	1		380-416 VAC
306-4372-10	1		600 VAC	306-4373-10	1		600 VAC
				Without Adapter Bay			
				50 Hz			
306-4372-02	1		220 VAC	306-4373-02	1		220 VAC
306-4372-03	1		440 VAC	306-4373-03	1		440 VAC
306-4372-04	1		380-416 VAC	306-4373-04	1		380-416 VAC
				60 Hz			
306-4372-01	1		208 VAC	306-4373-01	1		208 VAC
306-4372-02	1		240 VAC	306-4373-02	1		240 VAC
306-4372-03	1		480 VAC	306-4373-03	1		480 VAC
306-4372-04	1		380-416 VAC	306-4373-04	1		380-416 VAC
306-4372-05	1		600 VAC	306-4373-05	1		600 VAC

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Bypass Switch



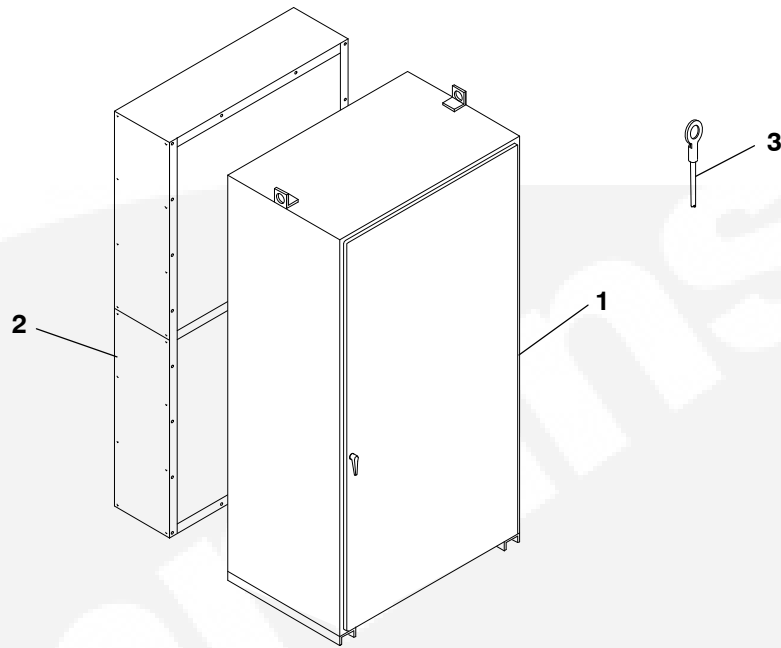
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
			1600 Amp				4 Pole
			Type 1				50 Hz
			3 Pole	306-4374-02	1		220 VAC
			50 Hz	306-4374-03	1		440 VAC
306-4352-02	1		220 VAC	306-4374-04	1		380-416 VAC
306-4352-03	1		440 VAC				60 Hz
306-4352-04	1		380-416 VAC	306-4374-01	1		208 VAC
			60 Hz	306-4374-02	1		240 VAC
306-4352-01	1		208 VAC	306-4374-03	1		480 VAC
306-4352-02	1		240 VAC	306-4374-04	1		380-416 VAC
306-4352-03	1		480 VAC	306-4374-05	1		600 VAC
306-4352-04	1		380-416 VAC				Type 4
306-4352-05	1		600 VAC				3 Pole
			4 Pole	306-4363-02	1		50 Hz
			50 Hz	306-4363-03	1		220 VAC
306-4356-02	1		220 VAC	306-4363-04	1		440 VAC
306-4356-03	1		440 VAC				380-416 VAC
306-4356-04	1		380-416 VAC	306-4363-01	1		60 Hz
			60 Hz	306-4363-02	1		208 VAC
306-4356-01	1		208 VAC	306-4363-03	1		240 VAC
306-4356-02	1		240 VAC	306-4363-04	1		480 VAC
306-4356-03	1		480 VAC	306-4363-05	1		380-416 VAC
306-4356-04	1		380-416 VAC				600 VAC
306-4356-05	1		600 VAC				4 Pole
			Type 3R	306-4375-02	1		50 Hz
			3 Pole	306-4375-03	1		220 VAC
			50 Hz	306-4375-04	1		440 VAC
306-4362-02	1		220 VAC				380-416 VAC
306-4362-03	1		440 VAC	306-4375-01	1		60 Hz
306-4362-04	1		380-416 VAC	306-4375-02	1		208 VAC
			60 Hz	306-4375-03	1		240 VAC
306-4362-01	1		208 VAC	306-4375-04	1		480 VAC
306-4362-02	1		240 VAC	306-4375-05	1		380-416 VAC
306-4362-03	1		480 VAC				600 VAC
306-4362-04	1		380-416 VAC				
306-4362-05	1		600 VAC				

Continued...

Bypass Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							Type 3R
			Type 12				3 Pole
			3 Pole				50 Hz
			50 Hz		306-4365-02	1	220 VAC
					306-4365-03	1	440 VAC
306-4364-02	1		220 VAC		306-4365-04	1	380-416 VAC
306-4364-03	1		440 VAC				60 Hz
306-4364-04	1		380-416 VAC		306-4365-01	1	208 VAC
			60 Hz		306-4365-02	1	240 VAC
306-4364-01	1		208 VAC		306-4365-03	1	480 VAC
306-4364-02	1		240 VAC		306-4365-04	1	380-416 VAC
306-4364-03	1		480 VAC		306-4365-05	1	600 VAC
306-4364-04	1		380-416 VAC				4 Pole
306-4364-05	1		600 VAC				50 Hz
			4 Pole		306-4377-02	1	220 VAC
			50 Hz		306-4377-03	1	440 VAC
306-4376-02	1		220 VAC		306-4377-04	1	380-416 VAC
306-4376-03	1		440 VAC				60 Hz
306-4376-04	1		380-416 VAC		306-4377-01	1	208 VAC
			60 Hz		306-4377-02	1	240 VAC
306-4376-01	1		208 VAC		306-4377-03	1	480 VAC
306-4376-02	1		240 VAC		306-4377-04	1	380-416 VAC
306-4376-03	1		480 VAC		306-4377-05	1	600 VAC
306-4376-04	1		380-416 VAC				Type 4
306-4376-05	1		600 VAC				3 Pole
			2000 Amp				50 Hz
			Type 1		306-4366-02	1	220 VAC
			3 Pole		306-4366-03	1	440 VAC
			50 Hz		306-4366-04	1	380-416 VAC
306-4353-02	1		220 VAC				60 Hz
306-4353-03	1		440 VAC		306-4366-01	1	208 VAC
306-4353-04	1		380-416 VAC		306-4366-02	1	240 VAC
			60 Hz		306-4366-03	1	480 VAC
306-4353-01	1		208 VAC		306-4366-04	1	380-416 VAC
306-4353-02	1		240 VAC		306-4366-05	1	600 VAC
306-4353-03	1		480 VAC				4 Pole
306-4353-04	1		380-416 VAC				50 Hz
306-4353-05	1		600 VAC		306-4378-02	1	220 VAC
			4 Pole		306-4378-03	1	440 VAC
			50 Hz		306-4378-04	1	380-416 VAC
306-4357-02	1		220 VAC				60 Hz
306-4357-03	1		440 VAC		306-4378-01	1	208 VAC
306-4357-04	1		380-416 VAC		306-4378-02	1	240 VAC
			60 Hz		306-4378-03	1	480 VAC
306-4357-01	1		208 VAC		306-4378-04	1	380-416 VAC
306-4357-02	1		240 VAC		306-4378-05	1	600 VAC
306-4357-03	1		480 VAC				
306-4357-04	1		380-416 VAC	Continued...			
306-4357-05	1		600 VAC				

Bypass Switch



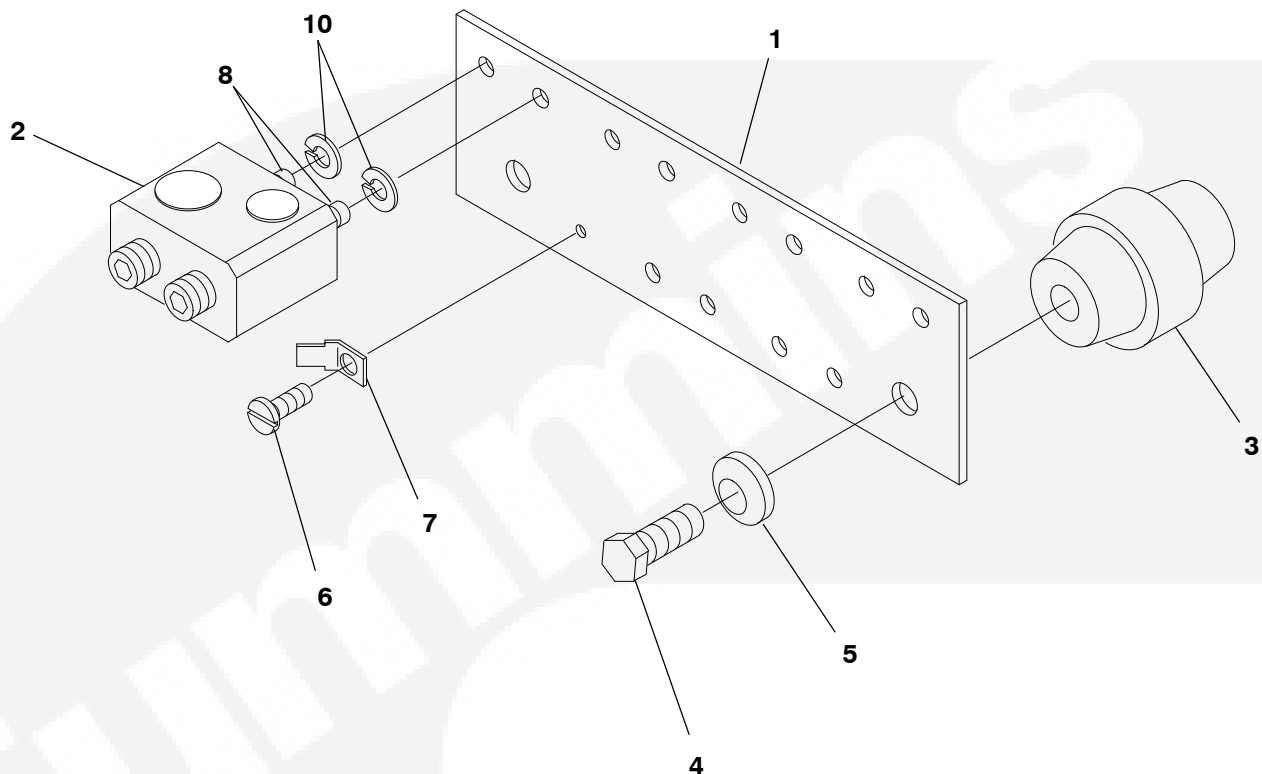
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
			Type 12				4 Pole
			3 Pole				50 Hz
			50 Hz	306-4358-02	1		220 VAC
306-4367-02	1		220 VAC	306-4358-03	1		440 VAC
306-4367-03	1		440 VAC	306-4358-04	1		380-416 VAC
306-4367-04	1		380-416 VAC				60 Hz
			60 Hz	306-4358-01	1		208 VAC
306-4367-01	1		208 VAC	306-4358-02	1		240 VAC
306-4367-02	1		240 VAC	306-4358-03	1		480 VAC
306-4367-03	1		480 VAC	306-4358-04	1		380-416 VAC
306-4367-04	1		380-416 VAC	306-4358-05	1		600 VAC
306-4367-05	1		600 VAC				Type 3R
			4 Pole				3 Pole
			50 Hz	306-4368-02	1		50 Hz
306-4379-02	1		220 VAC	306-4368-03	1		220 VAC
306-4379-03	1		440 VAC	306-4368-04	1		440 VAC
306-4379-04	1		380-416 VAC				380-416 VAC
			60 Hz	306-4368-01	1		60 Hz
306-4379-01	1		208 VAC	306-4368-02	1		208 VAC
306-4379-02	1		240 VAC	306-4368-03	1		240 VAC
306-4379-03	1		480 VAC	306-4368-04	1		480 VAC
306-4379-04	1		380-416 VAC	306-4368-05	1		380-416 VAC
306-4379-05	1		600 VAC				600 VAC
			3000 Amp				4 Pole
			Type 1				50 Hz
			3 Pole	306-4380-02	1		220 VAC
			50 Hz	306-4380-03	1		440 VAC
306-4354-02	1		220 VAC	306-4380-04	1		380-416 VAC
306-4354-03	1		440 VAC				60 Hz
306-4354-04	1		380-416 VAC	306-4380-01	1		208 VAC
			60 Hz	306-4380-02	1		240 VAC
306-4354-01	1		208 VAC	306-4380-03	1		480 VAC
306-4354-02	1		240 VAC	306-4380-04	1		380-416 VAC
306-4354-03	1		480 VAC	306-4380-05	1		600 VAC
306-4354-04	1		380-416 VAC				
306-4354-05	1		600 VAC				

Continued...

Bypass Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							Type 12
			Type 4				3 Pole
			50 Hz				50 Hz
				306-4370-02	1		220 VAC
306-4369-02	1		220 VAC	306-4370-03	1		440 VAC
306-4369-03	1		440 VAC	306-4370-04	1		380-416 VAC
306-4369-04	1		380-416 VAC				60 Hz
			60 Hz	306-4370-01	1		208 VAC
306-4369-01	1		208 VAC	306-4370-02	1		240 VAC
306-4369-02	1		240 VAC	306-4370-03	1		480 VAC
306-4369-03	1		480 VAC	306-4370-04	1		380-416 VAC
306-4369-04	1		380-416 VAC	306-4370-05	1		600 VAC
306-4369-05	1		600 VAC				4 Pole
			4 Pole	306-4382-02	1		50 Hz
			50 Hz	306-4382-03	1		220 VAC
306-4381-02	1		220 VAC	306-4382-04	1		440 VAC
306-4381-03	1		440 VAC				380-416 VAC
306-4381-04	1		380-416 VAC	306-4382-01	1		60 Hz
			60 Hz	306-4382-02	1		208 VAC
306-4381-01	1		208 VAC	306-4382-03	1		240 VAC
306-4381-02	1		240 VAC	306-4382-04	1		480 VAC
306-4381-03	1		480 VAC	306-4382-05	1		380-416 VAC
306-4381-04	1		380-416 VAC				600 VAC
306-4381-05	1		600 VAC	2			Bay, Adapter – 1200 Amp –
							Type 1 Cabinet
				306-4086	1		3 Pole
				306-4087	1		4 Pole
				3			Lead (Quantity Used as
							Required)
				226-3554-01	1		6.0"
				226-3554-02	1		3.0"

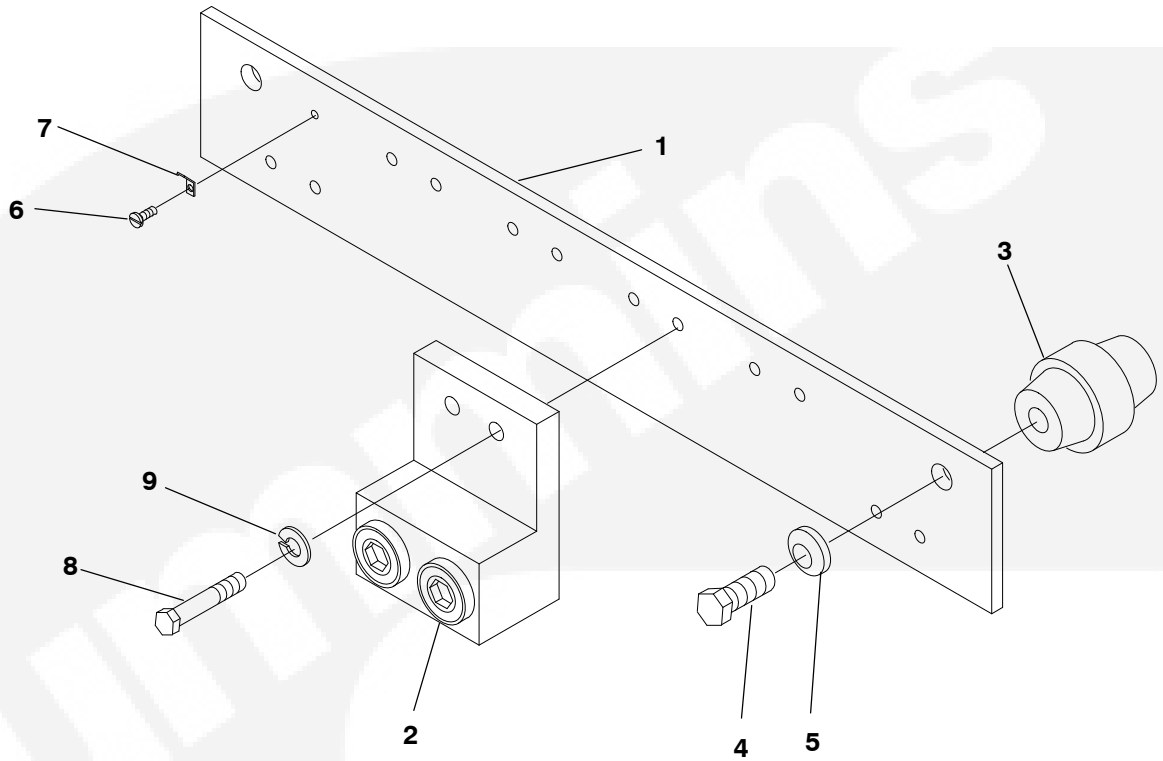
Neutral Bar
1200 Amp – 3 Pole
Type 3R, 4, 12 Cabinet



A028

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2354	1	Bar, Neutral	7	332-2834	1	Tab, Terminal (.25)
2	332-2660	6	Lug, Solderless	8	822-0085	6	Screw, Pan Head (1/4-20 x 5/8)
3	332-2512	2	Standoff, Insulator	9	822-0091	6	Screw, Pan Head (1/4-20 x 1-1/2)
4	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1.00)	10	850-0039	12	Washer, Lock (1/4)
5	851-0022	2	Spring, Disc – Conical (3/8)				
6	815-0285	1	Screw, Machine – Round Head – W/ET (#8-32 x 5/8)				

**Neutral Bar
1200 Amp – 3 Pole
Type 1 Cabinet**

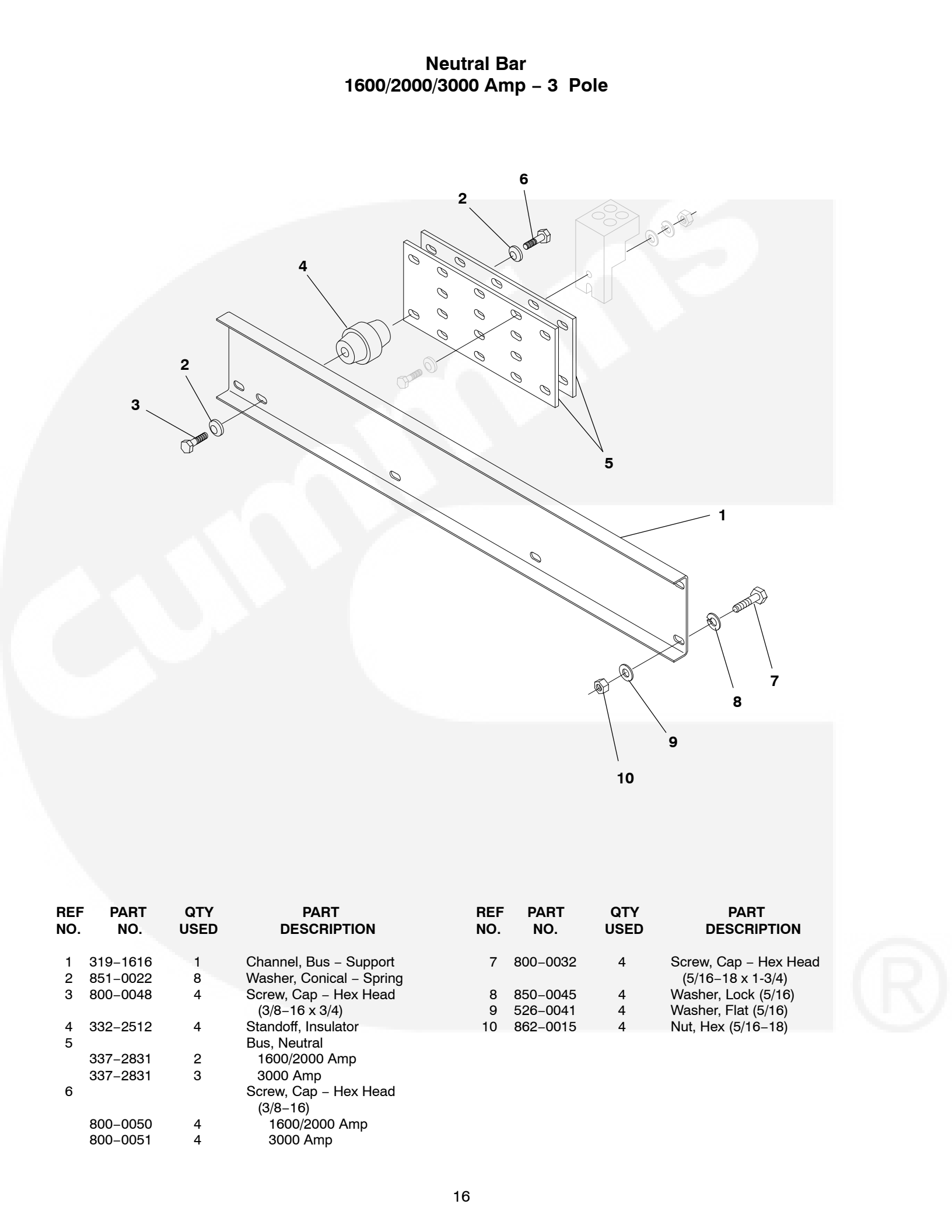


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2957-01	1	Bar, Neutral	6	851-0285	1	Screw, Machine – Round Head – W/ET (8-32 x 5/8)
2	332-3106	6	Lug, Solderless	7	332-2834	1	Tab, Terminal (.25)
3	332-2512	2	Standoff, Insulator	8	800-0008	12	Screw, Cap – Hex Head (1/4-20 x 1-1/4)
4	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1)	9	850-0039	12	Washer, Lock (1/4)
5	851-0022	2	Washer, Conical – Spring (3/8)				

Neutral Bar 1600/2000/3000 Amp – 3 Pole

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1616	1	Channel, Bus – Support	7	800-0032	4	Screw, Cap – Hex Head (5/16-18 x 1-3/4)
2	851-0022	8	Washer, Conical – Spring	8	850-0045	4	Washer, Lock (5/16)
3	800-0048	4	Screw, Cap – Hex Head (3/8-16 x 3/4)	9	526-0041	4	Washer, Flat (5/16)
4	332-2512	4	Standoff, Insulator	10	862-0015	4	Nut, Hex (5/16-18)
5	337-2831	2	Bus, Neutral 1600/2000 Amp				
	337-2831	3	3000 Amp				
6			Screw, Cap – Hex Head (3/8-16)				
	800-0050	4	1600/2000 Amp				
	800-0051	4	3000 Amp				

16



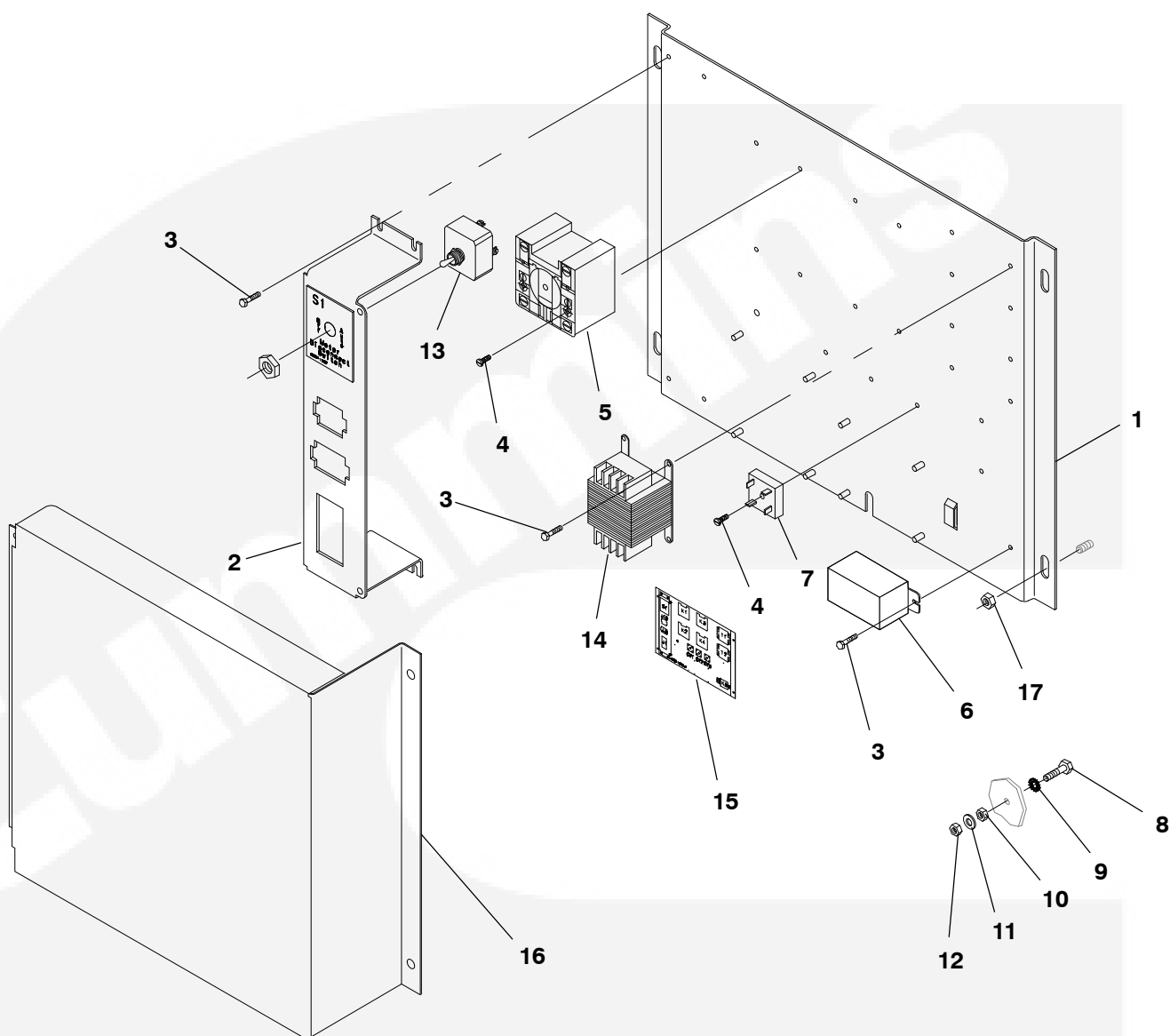
Neutral Bar 1600/2000/3000 Amp – 3 Pole

The diagram illustrates the assembly of a 3-pole neutral bar. Key components include a main channel bus support (1), end plates (5), a central neutral bar (4), and various mounting hardware such as screws (3, 6), washers (2, 9), lock washers (8), and nuts (10). A terminal block is also shown for connection.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1616	1	Channel, Bus - Support	7	800-0032	4	Screw, Cap - Hex Head (5/16-18 x 1-3/4)
2	851-0022	8	Washer, Conical - Spring	8	850-0045	4	Washer, Lock (5/16)
3	800-0048	4	Screw, Cap - Hex Head (3/8-16 x 3/4)	9	526-0041	4	Washer, Flat (5/16)
4	332-2512	4	Standoff, Insulator	10	862-0015	4	Nut, Hex (5/16-18)
5	337-2831	2	Bus, Neutral 1600/2000 Amp				
	337-2831	3	3000 Amp				
6			Screw, Cap - Hex Head (3/8-16)				
	800-0050	4	1600/2000 Amp				
	800-0051	4	3000 Amp				

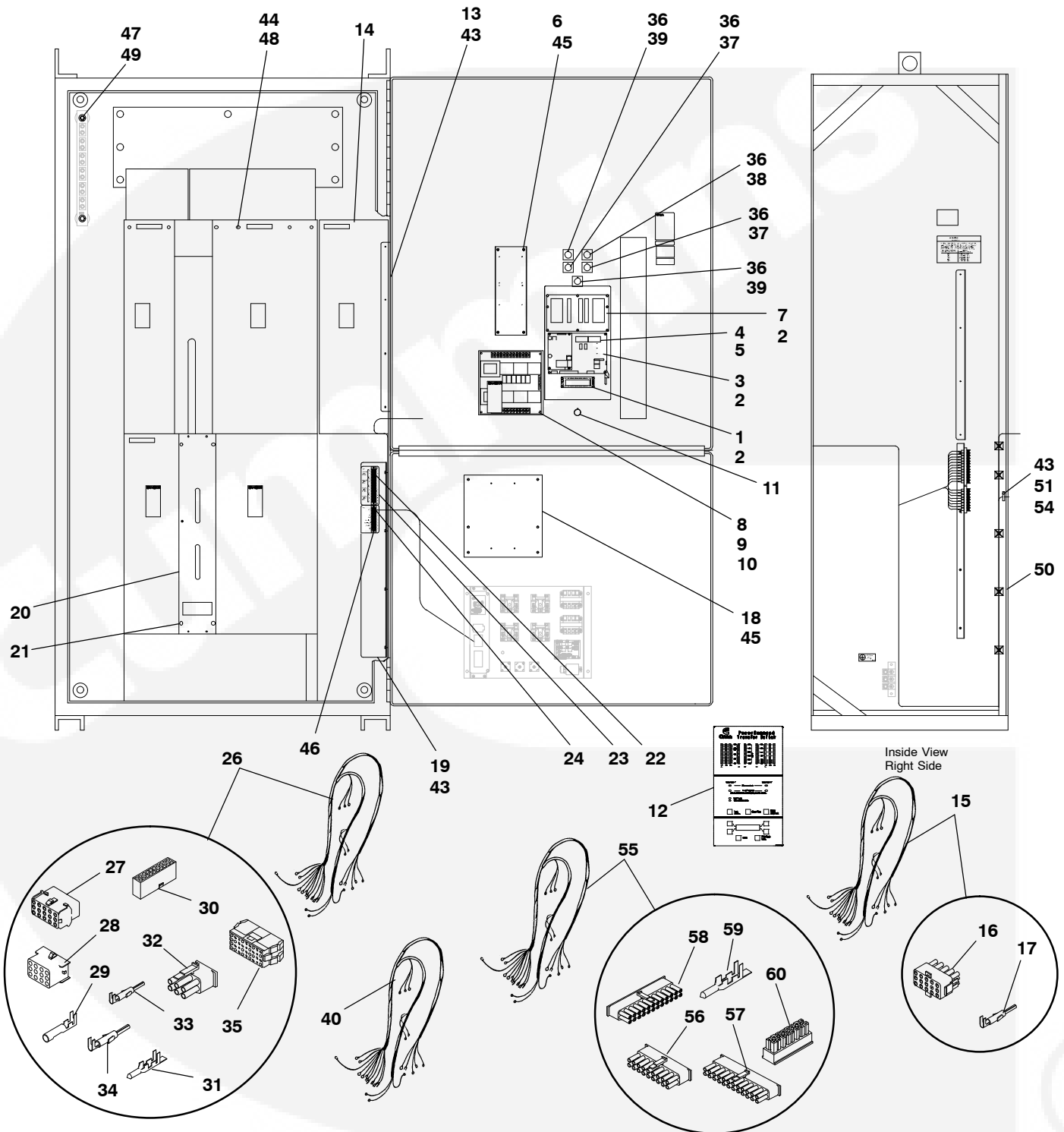
16

Accessory Control Plate



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4183-01	1	Plate, Door	10	870-2207	1	Nut, Hex – W/ET (M4)
2	319-3805	1	Bracket, Labeled	11	526-2050	1	Washer, Flat (M4)
3	815-0792-02	13	Screw, Pan Head – Cross Recessed (M4 x 0.7 x 8)	12	860-2025	1	Nut, Hex (M4)
4	815-0792-05	11	Screw, Pan Head – Cross Recessed (M4 x 0.7 x 16)	13	308-0923	1	Switch, On-Off
5	307-2928	4	Relay, Power	14	315-0655-02	2	Transformer, Power 208/240/480 Volt
6	307-2591	1	Relay, 3 PDT (24 VDC)		315-0655-03	2	347/380/416 Volt
7	305-0653	3	Bridge, Rectifier		315-0655-04	2	600 Volt
8	810-0193	1	Screw, Machine – Round Head – Brass (M4 x 0.7 x 30)	15	098-7600	1	Label, Plate Assembly
9	856-0021	1	Washer – EIT (M4)	16	319-3791-01	1	Shield, Plate
				17	870-0212	4	Nut, Self-Locking – Flange (1/4–20)

Cabinet Type 1 – 1200 Amp



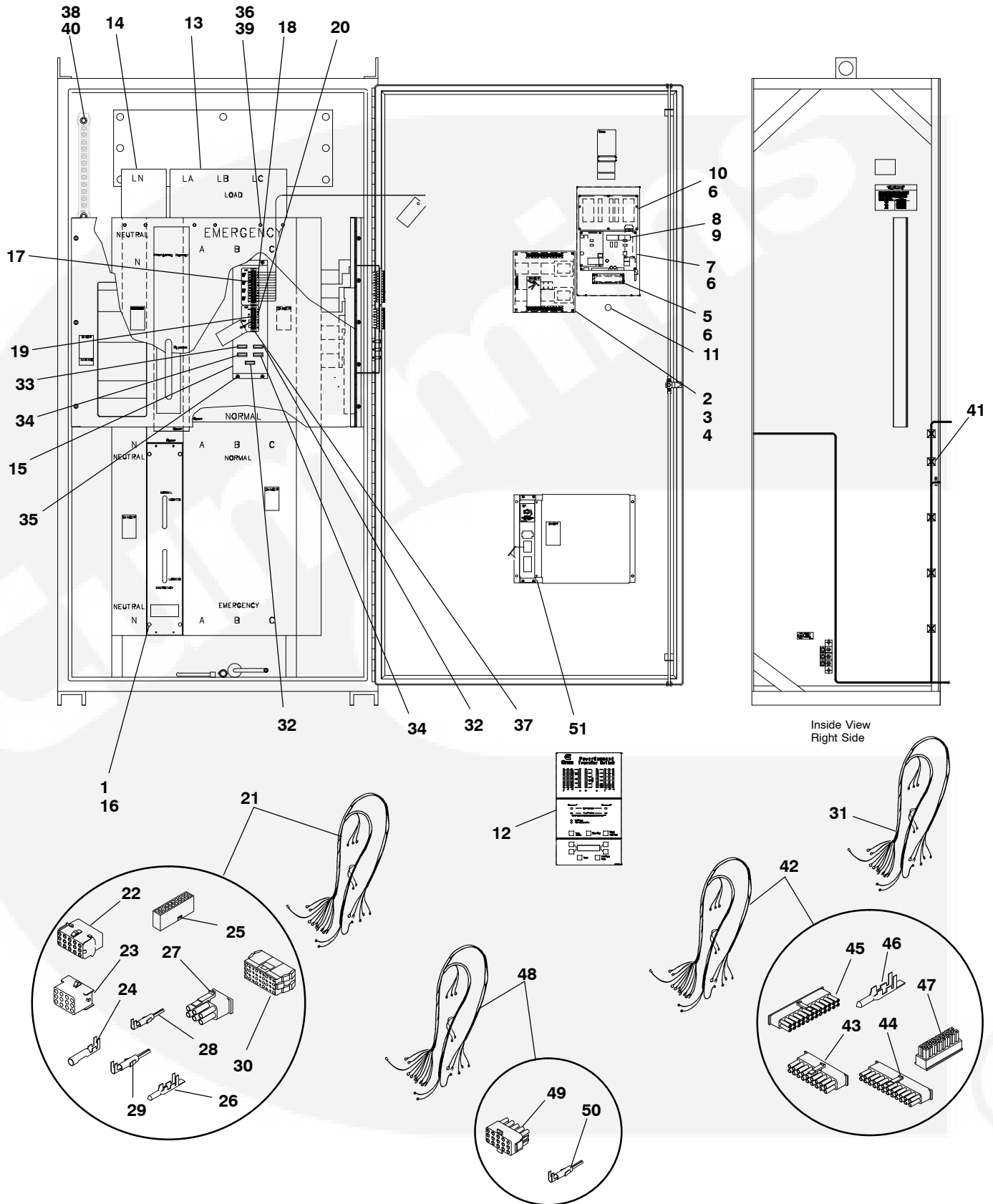
Cabinet Type 1 – 1200 Amp

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5151	1	Module, Digital Display	33	323-1703	3	* Pin, Contact (J6)
2	823-0001-01	24	Screw, Pan Head (M3 x 0.5 x 6)	34	323-1199	1	* Pin, Contact (J6)
3	300-5147-01	1	Board, Printed Circuit – Digital – Level 2	35	323-1525	1	* Plug, Connector – 36 Place (J1)
4		2	Battery – Lithium (3.0V) (Purchase Locally)	36	322-0133	5	Lamp, Indicator
5	416-1049	2	Clip, Battery	37	322-0451-01	2	Light, Indicating (Amber)
6	306-4632-01	1	Plate, Mounting	38	322-0451-02	1	Light, Indicating (Red)
7	300-5180	1	Board, Printed Circuit – Bar Graph	39	322-0451-03	2	Light, Indicating (Green)
8			Board, Printed Circuit – Power Module	40	338-3901	1	Harness, Meter Lamp
	300-5149-06	1	208-480 VAC	41	815-0446	8	Screw, Round Head – Cross Recessed – W/IT – Thread Cutting (8-32 x 1/2) (Not shown)
	300-5149-07	1	600 VAC	42	370-4061	2	Spacer (Not shown)
	300-5149-08	1	380-416 VAC	43	815-0538	9	Screw, Round Head – W/IT (8-32 x 1/2)
9	870-2216	4	Standoff, Male Snap	44	818-0193	6	Rivet
10	306-4523	1	Cover, Printed Circuit Board	45	870-0212	18	Nut, Self-Locking – Flange (1/4-20)
11	517-0137	1	Plug, Hole	46	815-0651	4	Screw, Machine – Round Head – Thread Rolling (#6-32 x 3/4)
12			Membrane, Panel	47	850-0050	2	Washer, Lock (3/8) – 3 Pole
	300-5186	1	Without Meters–Bar Graph Display	48	526-0008	6	Washer, Flat (#10)
	300-5271	1	With Meters–Bar Graph Display	49	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8)
13	319-1633	1	Bracket, Shield	50	332-2420	5	Mount, Cable Tie
14	306-3994	1	Shield, Power Bus	51	332-0051	1	Clip, Wire (7/16) (Not shown)
15	338-3899-02	1	Harness, Meter Lamp (Includes Plug and Pin)	52	332-2542	1	Clamp, Cable (Not shown)
16	323-1252	1	Plug, Circuit – 15 Place	53	815-0419	2	Screw, Machine – Hex Head – Slotted (8-32 x 1-1/4) (Not shown)
17	323-1199	14	Pin, Contact	54	860-0008	3	Nut, Hex (#8)
18	319-4389-01	1	Plate, Battery – Mounting	55	338-3878-02	1	Harness, Adapter (Includes Parts Marked #)
19	319-1490	1	Bracket, Mounting	56	323-1806-09	1	# Connector, Receptacle – 18 Place (J12)
20	319-1614	1	Cover, Solenoid	57	323-1806-12	1	# Connector, Receptacle – 24 Place (J27)
21	815-0504	4	Screw, Hex Washer Head – Thread Forming (#6-32 x 3/8)	58	323-1856	1	# Plug, Circuit – 20 Place (P20)
22	332-3059	1	Block, Terminal	59	323-1859	18	# Socket, Contact (P20)
23	332-3091	1	Strip, Marker	60	323-1806-08	1	# Connector, Receptacle – 16 Place (J13)
24	332-2832	1	Block, Terminal				
25	332-3675	1	Strip, Marker				
26	338-3908	1	Harness, Relay Plate (Includes Parts Marked *)				
27	323-1253	1	* Cap, Circuit – 15 Pin (J3)				
28	323-1315	1	* Cap, Connector – 12 Pin (J10)				
29	323-1200	16	* Socket, Contact (J3, J10)				
30	323-1857	1	* Cap, Connector – 20 Place (J20)				
31	323-1858	17	* Pin, Contact (J20)				
32	323-1317	1	* Plug, Connector – 6 Place (J6)				

* – Parts Included in 338-3908 Wiring Harness

– Parts Included in 338-3878-02 Wiring Harness

Cabinet Type 3R, 4, 12 - 1200 Amp



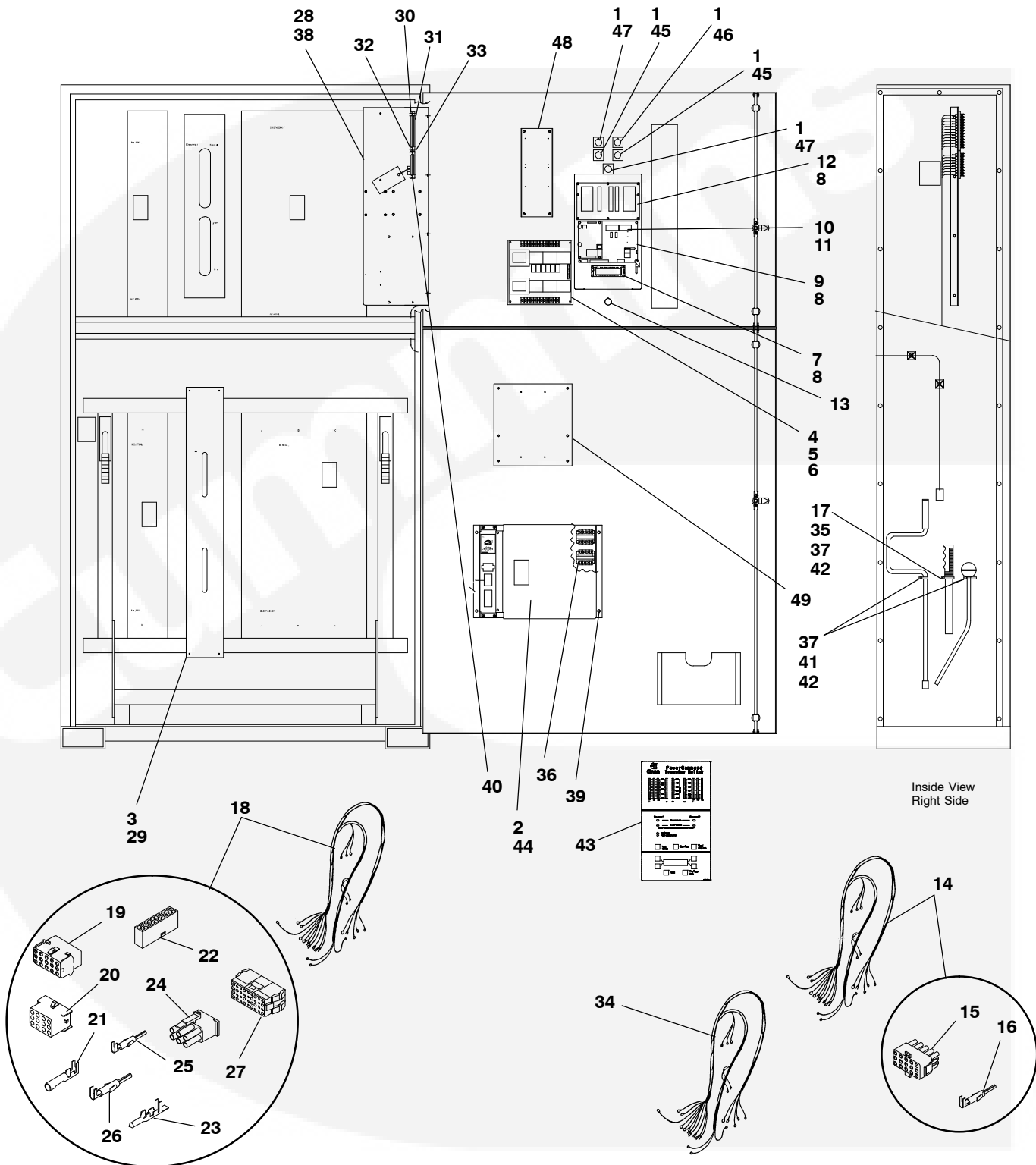
Cabinet **Type 3R, 4, 12 – 1200 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0504	4	Screw, Hex Washer Head – Thread Forming (#6-32 x 3/8)	27	323-1317	1	* Plug, Connector – 6 Place (J6)
2			Board, Printed Circuit – Power Module	28	323-1703	3	* Pin, Contact (J6)
	300-5149-06	1	208-480 VAC	29	323-1199	1	* Pin, Contact (J6)
	300-5149-07	1	600 VAC	30	323-1525	1	* Plug, Connector – 36 Place (J1)
	300-5149-08	1	380-416 VAC	31	338-3900	1	Harness, Meter Lamp (6.00")
3	870-2216	4	Standoff, Male Snap	32	322-0137	2	Light, Indicating (Red)
4	306-4523	1	Cover, Printed Circuit Board	33	322-0170	1	Light, Indicating (Green)
5	300-5151	1	Module, Digital Display	34	322-0387-02	2	Light, Indicating (White)
6	823-0001-01	17	Screw, Pan Head (M3 x 0.5 x 6)	35	815-0446	12	Screw, Round Head – Cross Recessed – W/IT – Thread Cutting (#8-32 x 1/2)
7	300-5147-01	1	Board, Printed Circuit – Digital – Level 2	36	818-0193	4	Rivet
8		2	Battery – Lithium (3.0V) (Purchase Locally)	37	815-0651	4	Screw, Machine – Round Head – Thread Rolling (#6-32 x 3/4)
9	416-1049	2	Clip, Battery	38	850-0050	2	Washer, Lock (3/8)
10	300-5180	1	Board, Printed Circuit – Bar Graph	39	526-0008	6	Washer, Flat (#10)
11	517-0137	1	Hole, Plug	40	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8)
12			Membrane, Panel	41	332-2420	5	Mount, Cable Tie
	300-5392	1	Without Meters–Bar Graph Display	42	338-3878-02	1	Harness, Adapter (Includes Parts Marked #)
	300-5393	1	With Meters–Bar Graph Display	43	323-1806-09	1	# Connector, Receptacle – 18 Place (J12)
13	306-3755-01	1	Cover, Load – 4 Pole	44	323-1806-12	1	# Connector, Receptacle – 24 Place (J27)
14	306-3756-01	1	Cover, Load – 4 Pole	45	323-1856	1	# Plug, Circuit – 20 Place (P20)
15	319-2274	1	Panel, Lamp	46	323-1859	18	# Socket, Contact (P20)
16	319-1614	1	Cover, Solenoid	47	323-1806-08	1	# Connector, Receptacle – 16 Place (J13)
17	332-3059	1	Block, Terminal	48	338-3899-01	1	Harness, Meter Lamp (152.00") (Includes Plug and Pins)
18	332-3091	1	Strip, Marker	49	323-1252	1	Plug, Circuit – 15 Place
19	332-2832	1	Block, Terminal	50	323-1199	14	Pin, Contact
20	332-3675	1	Strip, Marker	51	800-3020	2	Screw, Cap – Hex Head (M4 x 0.7 x 13)
21	338-3881	1	Harness, Relay Plate (Includes Parts Marked *)				
22	323-1253	1	* Cap, Circuit – 15 Pin (J3)				
23	323-1315	1	* Cap, Connector – 12 Pin (J10)				
24	323-1200	16	* Socket, Contact (J3, J10)				
25	323-1857	1	* Cap, Connector – 20 Place (J20)				
26	323-1858	17	* Pin, Contact (J20)				

– Parts Included in 338-3878-02 Wiring Harness

* – Parts Included in 338-3881 Wiring Harness

Cabinet Type 1 – 1600/2000/3000 Amp

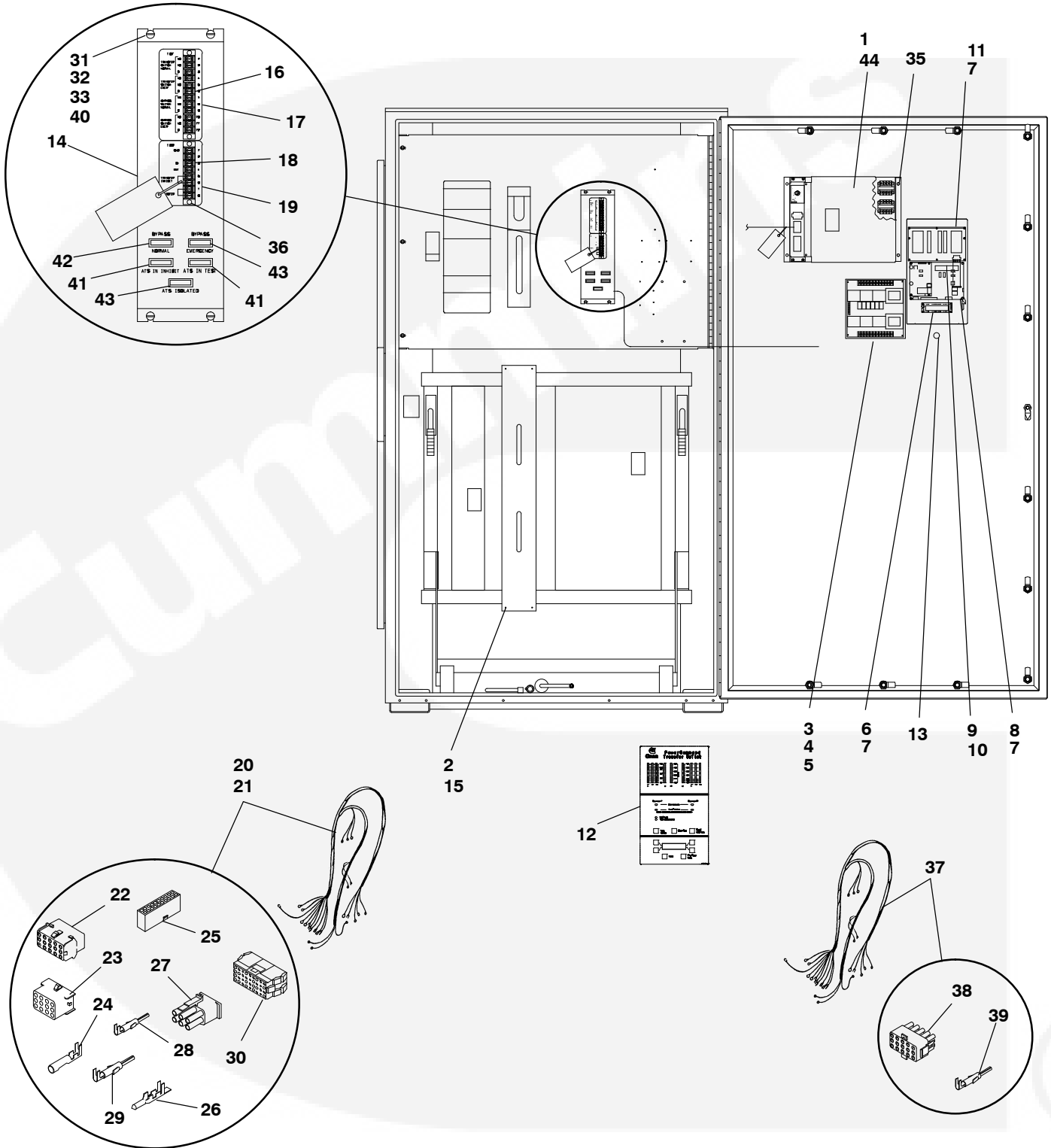


Cabinet **Type 1 – 1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	322-0133	5	Lamp, Indicator	26	323-1199	1	* Pin, Contact (J6)
2	319-3791-01	1	Shield, Plate	27	323-1525	1	* Plug, Connector – 36 Place (J1)
3	815-0403	4	Screw, Hex Washer Head – Thread Forming (#8-32 x 5/16)	28	319-4132-01	1	Bracket, Mounting
4			Board, Printed Circuit – Power Module	29	319-1615	1	Cover, Solenoid
	300-5149-06	1	208-480 VAC	30	332-3059	1	Block, Terminal
	300-5149-07	1	600 VAC	31	332-3091	1	Marker, Strip
	300-5149-08	1	380-416 VAC	32	332-2832	1	Block, Terminal
5	870-2216	4	Standoff, Male Snap	33	332-3092	1	Marker, Strip
6	306-4523	1	Cover, Printed Circuit Board	34	338-3901	1	Harness, Meter Lamp
7	300-5151	1	Module, Digital Display	35	815-0419	3	Screw, Slotted (#8-32 x 1.25)
8	823-0001-01	17	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 8)	36	815-0446	8	Screw, Round Head – Cross Recessed – W/IT – Thread Cutting (#8-32 x .50)
9	300-5147-01	1	Board, Printed Circuit – Digital – Level 2	37	860-0008	3	Nut, Hex (#8)
10		2	Battery – Lithium (3.0V) (Purchase Locally)	38	815-0538	8	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .50)
11	416-1049	2	Clip, Battery	39	870-0212	4	Nut, Self-Locking – Flanged (1/4-20)
12	300-5180	1	Board, Printed Circuit – Bar Graph	40	815-0651	4	Screw, Machine – Round Head (#6-32 x .75)
13	517-0137	1	Plug, Hole	41	332-2542	2	Clamp, Cable
14	338-3899-02	1	Harness, Meter Lamp (Includes Plug and Pin)	42	370-4061	3	Spacer
15	323-1252	1	Plug, Circuit – 15 Place	43	300-5186	1	Membrane, Panel Without Meters–Bar Graph Display
16	323-1199	14	Pin, Contact		300-5271	1	With Meters–Bar Graph Display
17	332-0912	1	Clamp, Loop (1-1/8)	44	800-3020	2	Screw, Cap – Hex Head (M4 x 0.7 x 13)
18	338-3908	1	Harness, Relay Plate (Includes Parts Marked *)	45	322-0451-04	2	Light, Indicator (Amber)
19	323-1253	1	* Cap, Circuit – 15 Pin (J3)	46	322-0451-02	1	Light, Indicator (Red)
20	323-1315	1	* Cap, Connector – 12 Pin (J10)	47	322-0451-03	2	Light, Indicator (Green)
21	323-1200	16	* Socket, Contact (J3, J10)	48	306-4632-01	1	Plate, Mounting
22	323-1857	1	* Cap, Connector – 20 Place (J20)	49	319-4389-01	1	Plate, Battery – Mounting
23	323-1858	17	* Pin, Contact (J20)				
24	323-1317	1	* Plug, Connector – 6 Place (J6)				
25	323-1703	3	* Pin, Contact (J6)				

* – Parts Included in 338-3908 Wiring Harness

Cabinet
Type 3R, 4, 12 – 1600/2000/3000 Amp



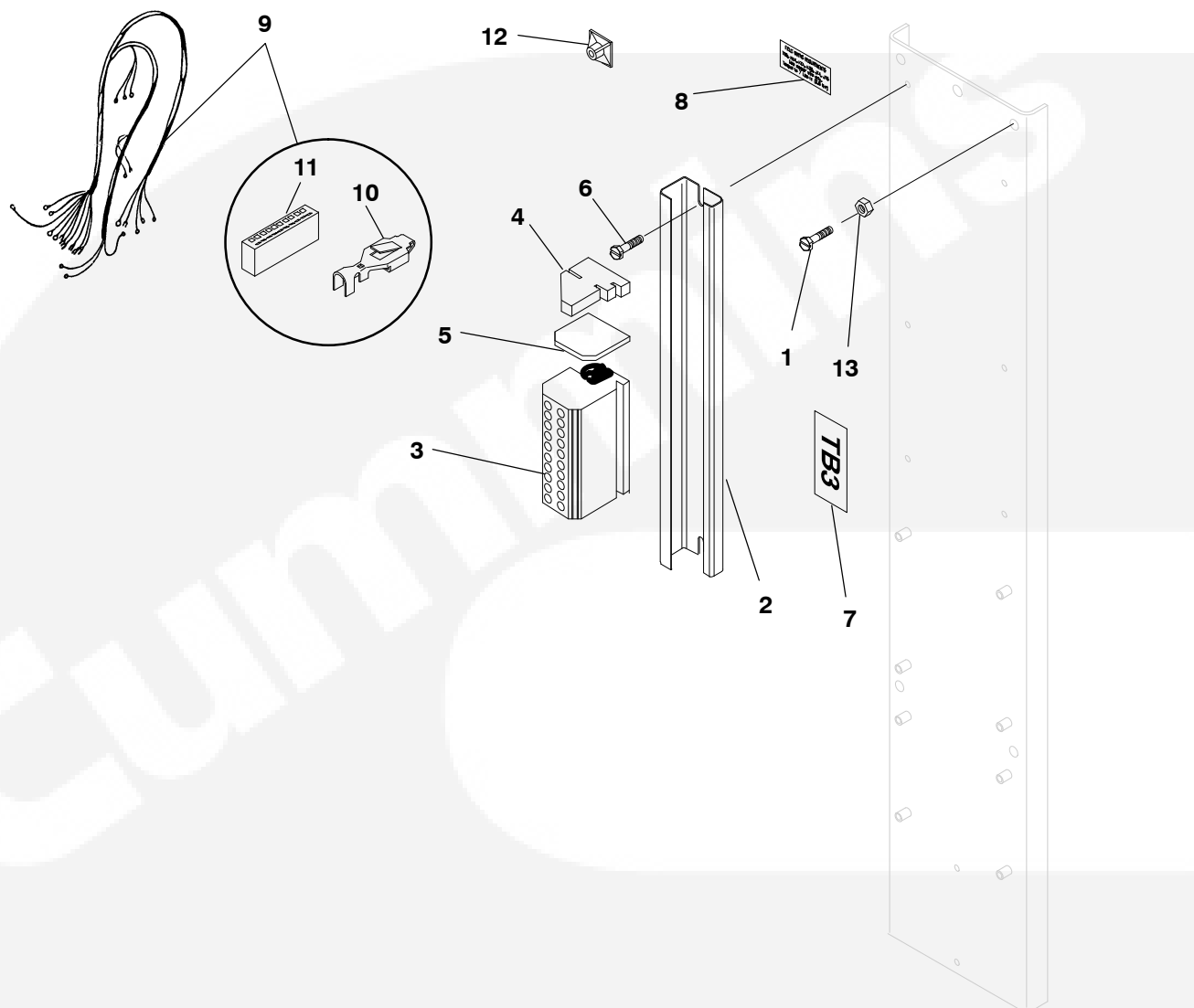
Cabinet **Type 3R, 4, 12 – 1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3791-01	1	Shield, Plate 1600/2000 Amp, 3000 Amp – 3 Pole	21	338-3908	1	Harness, Relay Plate (Includes Parts Marked ^)
	319-3791-01	2	3000 Amp – 4 Pole	22	323-1253	1	^^ Cap, Circuit – 15 Pin (J3)
2	815-0403	4	Screw, Hex Washer Head – Thread Forming (#8-32 x 5/16)	23	323-1315	1	^^ Cap, Connector – 12 Pin (J10)
3			Board, Printed Circuit – Power Module	24	323-1200	16	^^ Socket, Contact (J3, J10)
	300-5149-06	1	208-480 VAC	25	323-1857	1	^^ Cap, Connector – 20 Place (J20)
	300-5149-07	1	600 VAC	26	323-1858	17	^^ Pin, Contact (J20)
	300-5149-08	1	380-416 VAC	27	323-1317	1	^^ Plug, Connector – 6 Place (J6)
4	870-2216	4	Standoff, Male Snap	28	323-1703	3	^^ Pin, Contact (J6)
5	306-4523	1	Cover, Printed Circuit Board	29	323-1199	1	^^ Pin, Contact (J6)
6	300-5151	1	Module, Digital Display	30	323-1525	1	^^ Plug, Connector – 36 Place (J1)
7	823-0001-01	24	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 8)	31	862-0001	4	Nut, Hex (1/4-20)
8	300-5147-01	1	Board, Printed Circuit – Digital	32	850-0040	4	Washer, Lock (1/4)
9		2	Battery – Lithium (3.0V) (Purchase Locally)	33	526-0018	4	Washer, Flat (1/4)
10	416-1049	2	Clip, Battery	34	815-0446	8	Screw, Round Head – Cross Recessed – Thread Cutting (#8-32 x 1/2)
11	300-5180	1	Board, Printed Circuit – Bar Graph	35	870-0212	4	Nut, Locking – Flange (1/4-20)
12			Membrane, Panel	36	815-0651	4	Screw, Machine – Round Head – Thread Rolling (#6-32 x 3/4)
	300-5392	1	Without Meters–Bar Graph Display	37	338-3899-02	1	Harness, Meter Lamp (Includes Plug and Pin)
	300-5393	1	With Meters–Bar Graph Display	38	323-1252	1	Plug, Circuit – 15 Place
13	517-0137	1	Plug, Hole	39	323-1199	14	Pin, Contact
14	319-2274	1	Panel, Meter	40	822-0085	4	Screw, Pan Head (1/4-20 x 5/8)
15	319-1615	1	Cover, Solenoid	41	322-0387-02	2	Light, Indicating (Amber)
16	332-3059	1	Block, Terminal	42	322-0170	1	Light, Indicating (Red)
17	332-3091	1	Marker, Strip	43	322-0137	2	Light, Indicating (Green)
18	332-2832	1	Block, Terminal	44	800-3020	2	Screw, Cap – Hex Head (M4 x 0.7 x 13)
19	332-3092	1	Marker, Strip				
20	338-3881	1	Harness, Relay Plate (Includes Parts Marked *)				

* – Parts Included in 338-3881 Wiring Harness

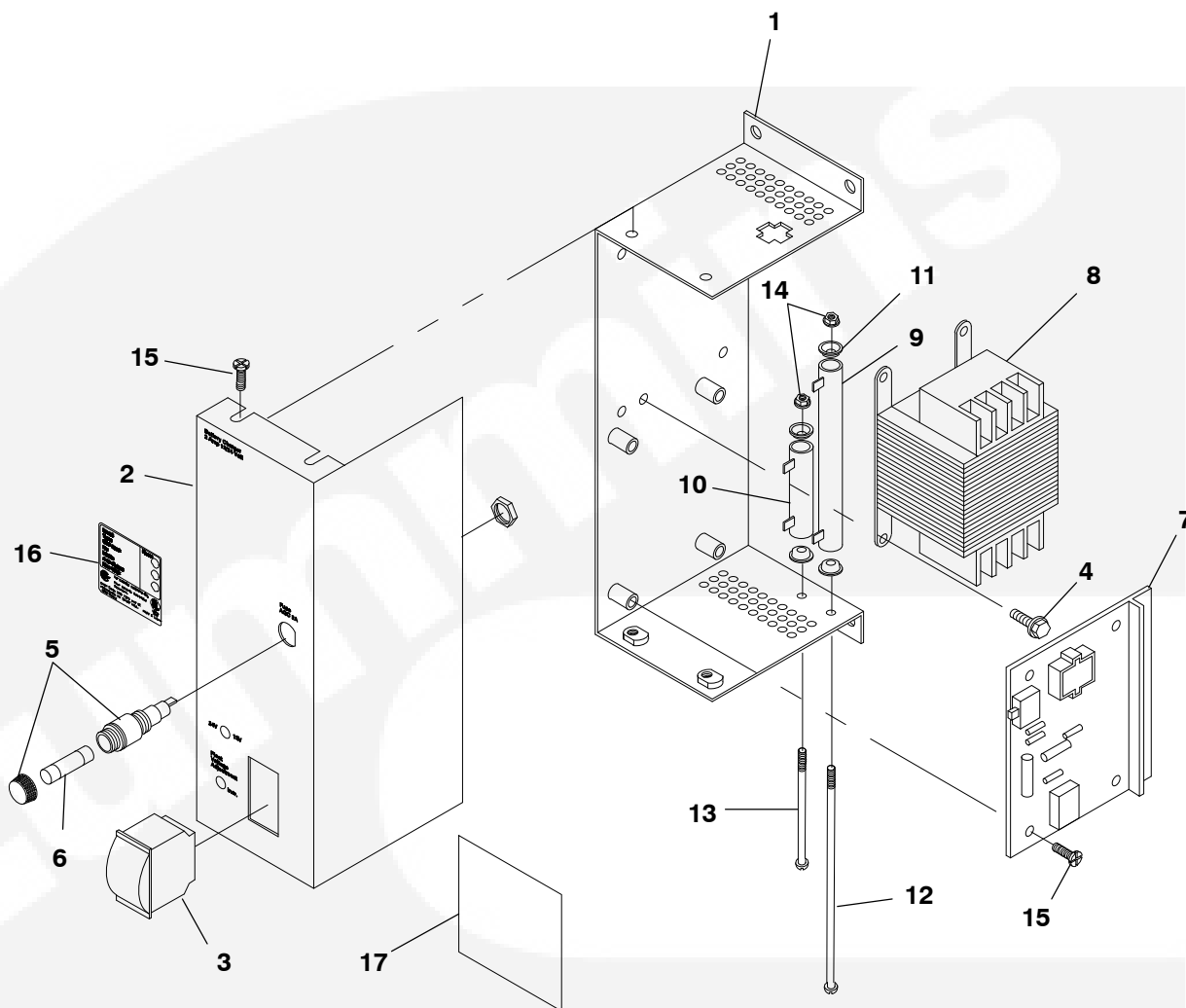
^ – Parts Included in 338-3908 Wiring Harness

Battery Charger Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0005	2	Screw, Cap – Hex Head (1/4-20 x .75)	9	338-2350	1	Harness, Alarm (Includes Parts Marked *)
2	332-2837-09	1	Rail, Terminal Block	10	323-1302	9	* Pin, Contact (J2)
3	332-2836-02	1	Block, Terminal (Sectional)	11	323-1374-10	1	* Housing, Connector (10 Pin) (J2)
4	332-2839	2	Bracket, End – Terminal				
5	332-2841	1	Plate, End – Terminal	12	332-2420	2	Mount, Cable Tie
6	815-0792-02	2	Screw, Pan Head – Cross Recessed (M4 x 8)	13	870-0212	4	Nut, Self-Locking (1/4-20)
7	098-5710	1	Label, Terminal Block (TB3)	* – Parts Included in 338-2350 Wiring Harness			
8	098-7621	1	Label, Torque				

Battery Charger 2 Amp, 12/24 Volt

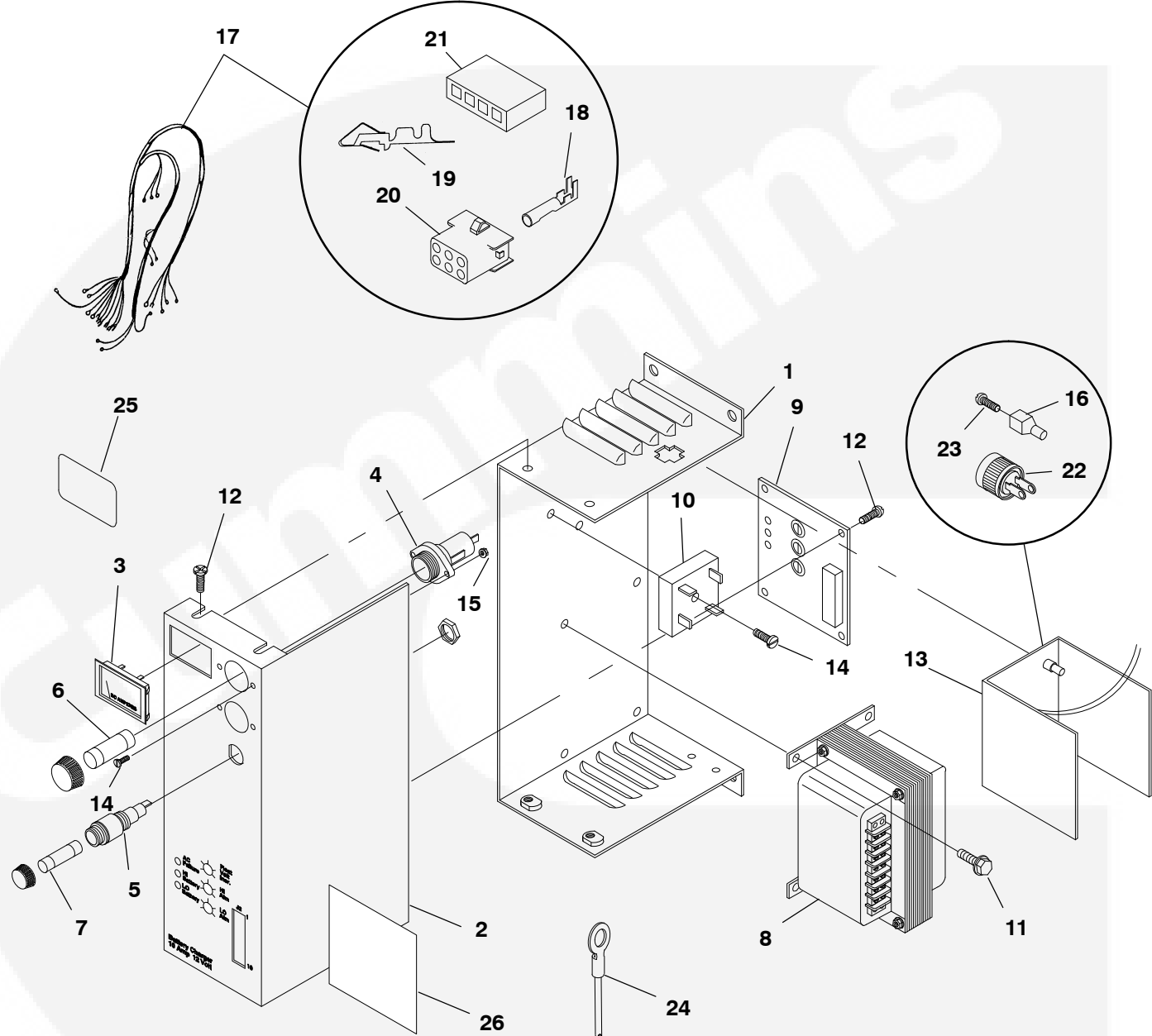


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9990	1	Wrapper, Charger – Battery
2	301-9991	1	Cover, Charger – Battery
3	302-0807	1	Ammeter, DC
4	821-0040	4	Screw, Machine – Locking Head Slotted (#10-32 x 5/16)
5	321-0175	1	Holder, Fuse
6	321-0153	1	Fuse, 3 Amp
7	300-2946	1	Board, Printed Circuit
8			Transformer
	315-0621-02	1	208/240/480 Volt
	315-0621-03	1	380/416 Volt
	315-0621-04	1	600 Volt
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)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
13	813-0112	1	Screw, Machine – Round Head (#10-32 x 2-1/2)
14	870-0131	2	Nut, Hex – W/ET (#10-32)
15	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET (#6-32 x 3/8)
16			Label, Name Plate
	099-2516-02	1	208 Volt
	099-2516-03	1	240 Volt
	099-2516-05	1	380 Volt
	099-2516-06	1	416 Volt
	099-2516-07	1	480 Volt
	099-2516-08	1	600 Volt
17	098-5708	1	Label, Charger

* – Parts Included in 338-2149 Wiring Harness

Battery Charger
10 Amp, 12 Volt



Battery Charger 10 Amp, 12 Volt

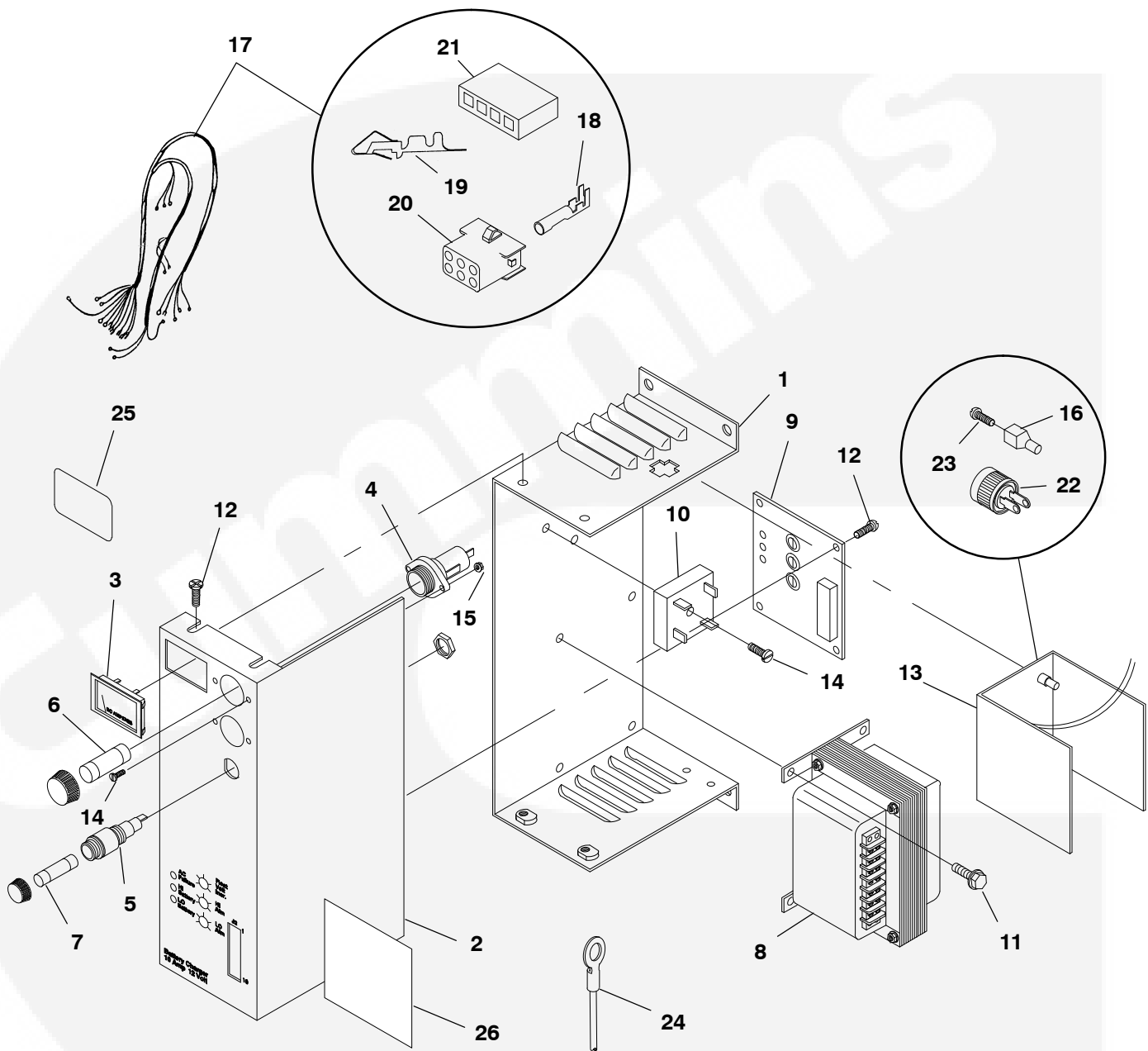
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery	14	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
2	319-0073	1	Cover, Charger – Battery	15	870-0221	5	Nut, Hex – W/ET (#8-32)
3	302-1844	1	Ammeter, DC	16	870-0263	4	*Nut, Insulated (#8)
4	321-0237	2	Holder, Fuse (AC Input)	17	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
5	321-0175	1	Holder, Fuse (DC Output)	18	323-1200	A/R	#Socket, Terminal
6			Fuse	19	323-1302	A/R	#Pin, Terminal
			50 Hertz	20	323-1318	1	#Cap, 6 pin
	321-0304-01	2	416/440 Volt	21	323-1374-05	1	#Plug, 5 pin
	321-0304-02	2	380 Volt	22	364-0003	1	*Rectifier, Gate (SCR)
	321-0304-03	2	240 Volt	23	809-0035	4	*Screw, Sheet Metal – Round Head (#8 x 3/4)
	321-0304-04	2	220 Volt	24	226-3554-02	1	Lead (Quantity Used as Required)
			60 Hertz	25			Label, Name Plate
	321-0304-01	2	480 Volt				50 Hertz
	321-0304-02	2	380 Volt		099-2516-16	1	220 Volt
	321-0304-03	2	240 Volt		099-2516-17	1	240 Volt
	321-0304-04	2	208 Volt		099-2516-19	1	380 Volt
	321-0303-02	2	600 Volt		099-2516-21	1	416 Volt
7	321-0127	1	Fuse (15 Amp)		099-2516-22	1	440 Volt
8			Transformer				60 Hertz
			50 Hertz		099-2516-10	1	208 Volt
	315-0702	1	380 Volt		099-2516-11	1	240 Volt
	315-0704	1	220/416/440 Volt		099-2516-12	1	380 Volt
	315-0712	1	240 Volt		099-2516-13	1	480 Volt
			60 Hertz		099-2516-14	1	600 Volt
	315-0700	1	208/240 Volt	26	098-5808	1	Label, Charger
	315-0706	1	380 Volt				
	315-0708	1	480 Volt				
	315-0710	1	600 Volt				
9	300-3160	1	PCB, Charger – Battery				
10	305-0653	1	Rectifier, Bridge				
11	821-0040	4	Screw, Machine – Locking Head (#10-32 x 5/16)				
12	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET (#6-32 x 3/8)				
13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)				

– Parts Included in 338-2223 Wiring Harness

* – Parts Included in 305-0781 Rectifier Assembly



Battery Charger **10 Amp, 24 Volt**



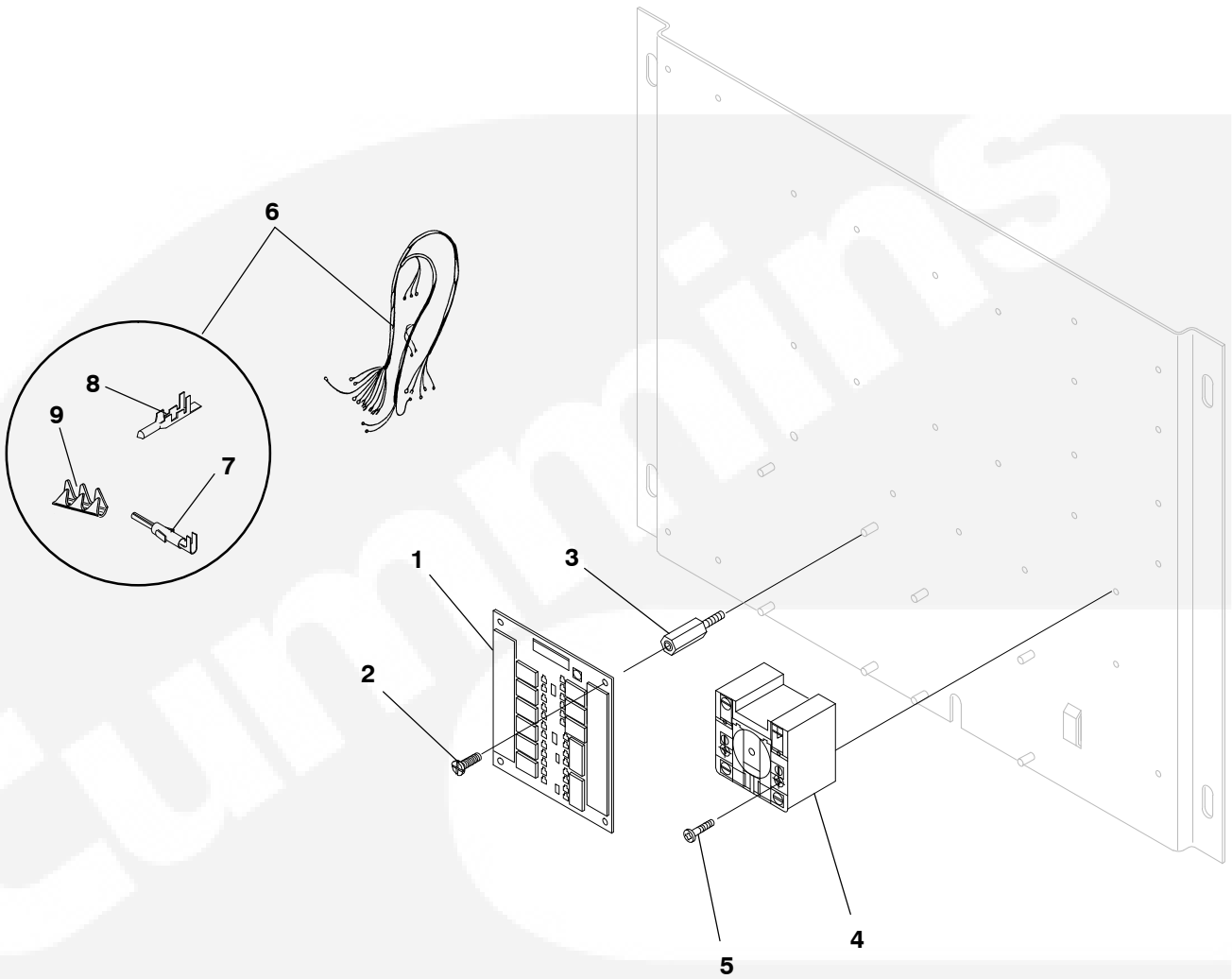
Battery Charger 10 Amp, 24 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery	14	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
2	319-0073	1	Cover, Charger – Battery (Includes Silkscreen)	15	870-0221	5	Nut, Hex – W/ET (#8-32)
3	302-1844	1	Ammeter, DC	16	870-0263	4	*Nut, Insulated (#8)
4	321-0237	2	Holder, Fuse (AC Input)	17	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
5	321-0175	1	Holder, Fuse (DC Output)	18	323-1200	A/R	#Socket, Terminal
6			Fuse	19	323-1302	A/R	#Pin, Terminal
			50 Hertz	20	323-1318	1	#Cap, 6 pin
	321-0304-04	2	380/416/440 Volt	21	323-1374-05	1	#Plug, 5 pin
	321-0304-05	2	240 Volt	22	364-0003	1	*Rectifier, Gate (SCR)
	321-0304-06	2	220 Volt	23	809-0035	4	*Screw, Sheet Metal – Round Head (#8 x 3/4)
			60 Hertz	24	226-3554-02	1	Lead (Quantity Used as Required)
	321-0303-02	2	600 Volt	25			Label, Name Plate
	321-0304-03	2	480 Volt				50 Hertz
	321-0304-04	2	380 Volt		099-2516-30	1	220 Volt
	321-0304-05	2	240 Volt		099-2516-31	1	240 Volt
	321-0304-06	2	208 Volt		099-2516-33	1	380 Volt
7	321-0127	1	Fuse (15 Amp)		099-2516-35	1	416 Volt
8			Transformer		099-2516-36	1	440 Volt
			50 Hertz				60 Hertz
	315-0705	1	220/416/440 Volt		099-2516-24	1	208 Volt
	315-0703	1	380 Volt		099-2516-25	1	240 Volt
	315-0713	1	240 Volt		099-2516-26	1	380 Volt
			60 Hertz		099-2516-27	1	480 Volt
	315-0701	1	208/240 Volt		099-2516-28	1	600 Volt
	315-0707	1	380 Volt	26	098-5997	1	Label, Charger
	315-0709	1	480 Volt				
	315-0711	1	600 Volt				
9	300-3244	1	PCB, Charger – Battery				
10	305-0653	1	Rectifier, Bridge				
11	821-0040	4	Screw, Machine – Locking Head (#10-32 x 5/16)				
12	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET (#6-32 x 3/8)				
13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)				

– Parts Included in 338-2223 Wiring Harness

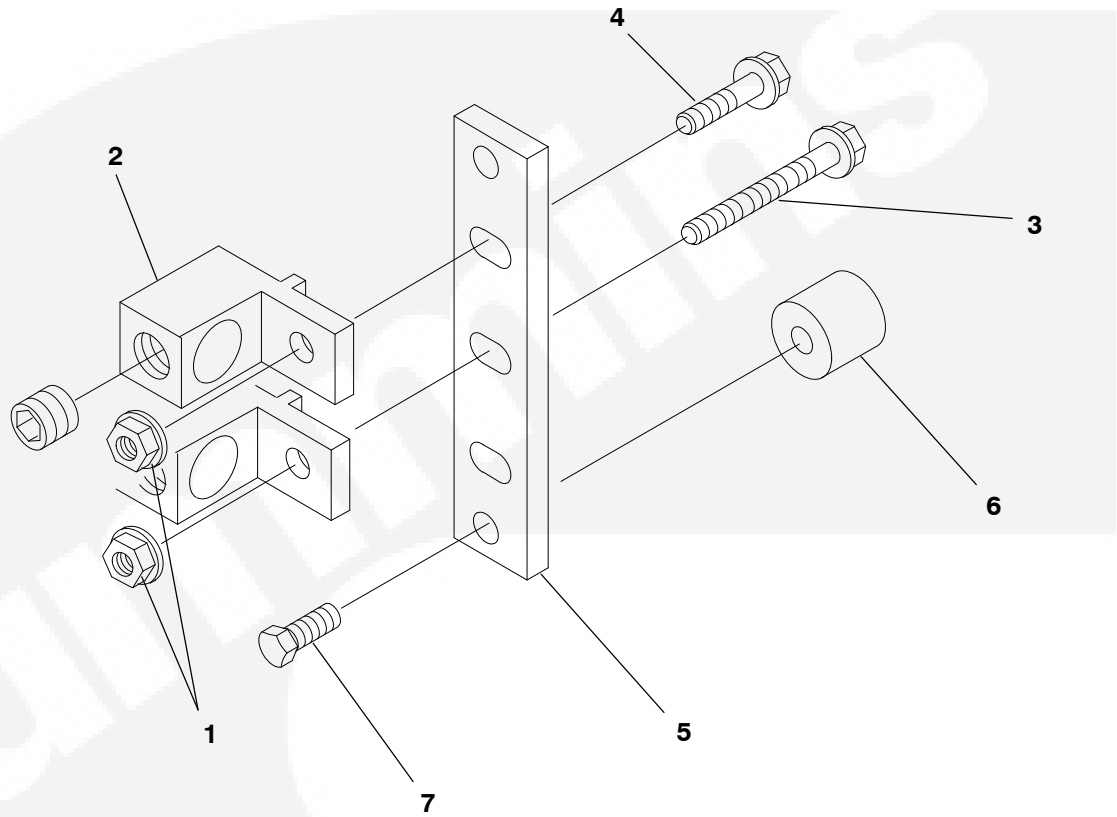
* – Parts Included in 305-0781 Rectifier Assembly

Load Shed



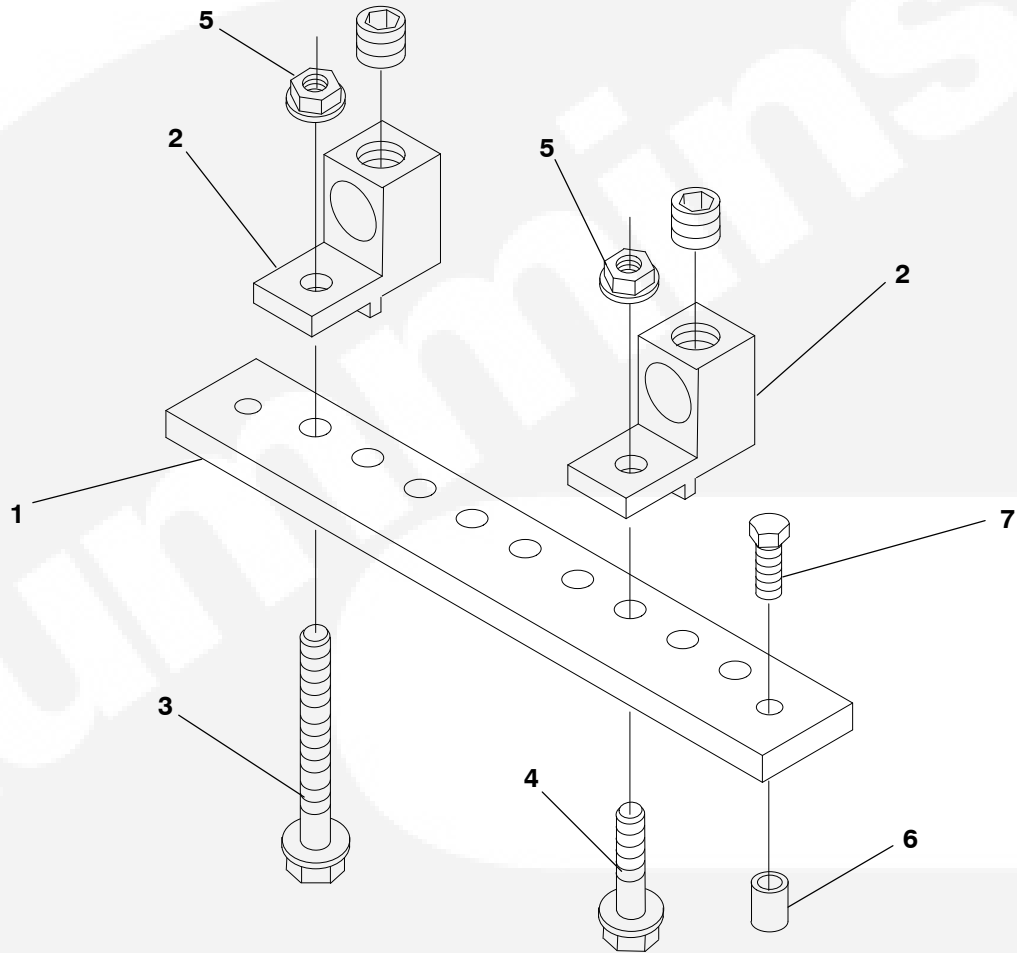
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5152	1	Board, Printed Circuit – Relay Module	6	338-3909	1	Harness, Relay Plate (Includes Parts Marked *)
2	823-0001-01	4	Screw, Pan Head (M3 x 0.5 x 6)	7	323-1859	1	* Socket, Contact (P20)
3	870-2213-02	4	Standoff, Hex Thread (M3 x 12)	8	323-1858	1	* Pin, Contact (J20)
4	307-2928	1	Relay, Power	9	332-3491-02	2	* Terminal, Pin
5	815-0792-05	2	Screw, Pan Head – Cross Recessed (M4 x 0.7 x 16)				* – Parts Included in 338-3909 Wiring Harness

Ground Strip 1200 Amp



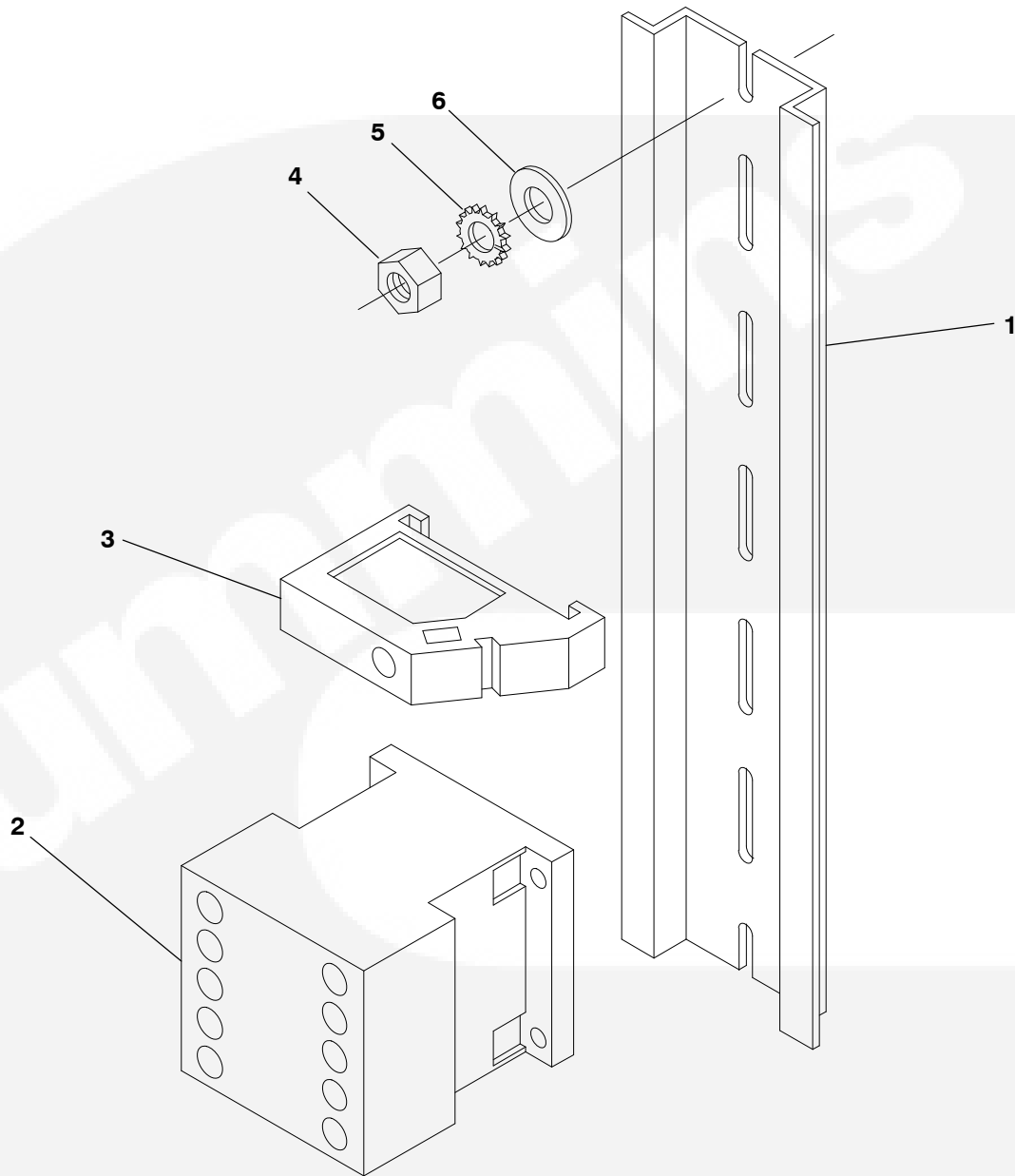
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0212	3	Nut, Locking – Flange (1/4-20)	5	332-0772	1	Connector, Neutral Bar
2	332-2880	3	Lug, Solderless	6	332-1348	2	Spacer, Neutral Bar – 3 Pole
3	821-0012	1	Screw, Self-Locking – Flange Head (1/4-20 x 1-1/8)	7	800-0009	2	Screw, Cap – Hex Head (1/4-20 x 1-1/2)
4	821-0018	2	Screw, Self-Locking – Flange Head (1/4-20 x 5/8)				

Ground Strip 1600/2000/3000 Amp



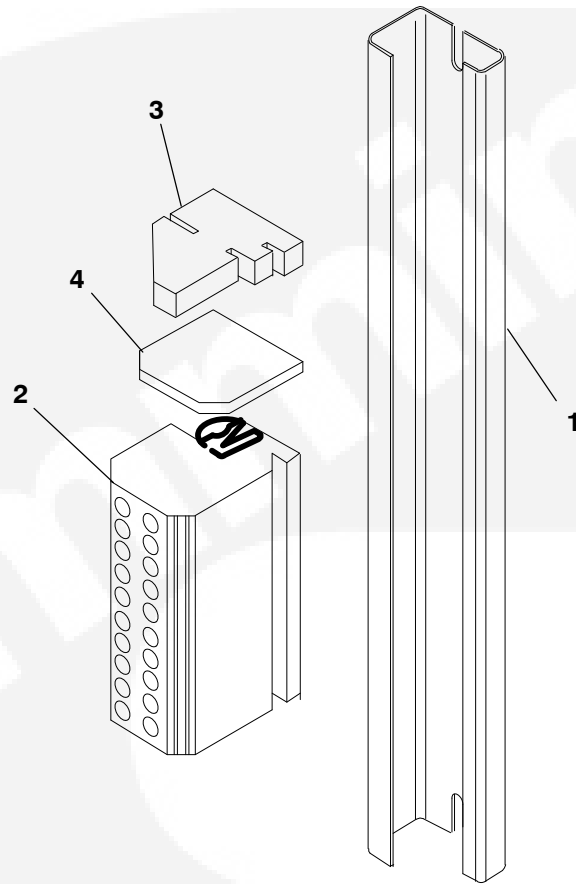
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2595-01	1	Bus, Ground	5	870-0257	9	Nut, Locking – Flange (5/16-18)
2	332-2016	9	Lug, Solderless	6	332-3169	2	Standoff, Ground
3	821-0023	1	Screw, Self-Locking – Flange (5/16-18 x 1-1/2)	7	815-0667	2	Screw, Hex Washer Head – Thread Forming (1/4-20 x 1-1/4)
4	821-0020	8	Screw, Self-Locking – Flange (5/16-18 x 7/8)				

Auxiliary Relay



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

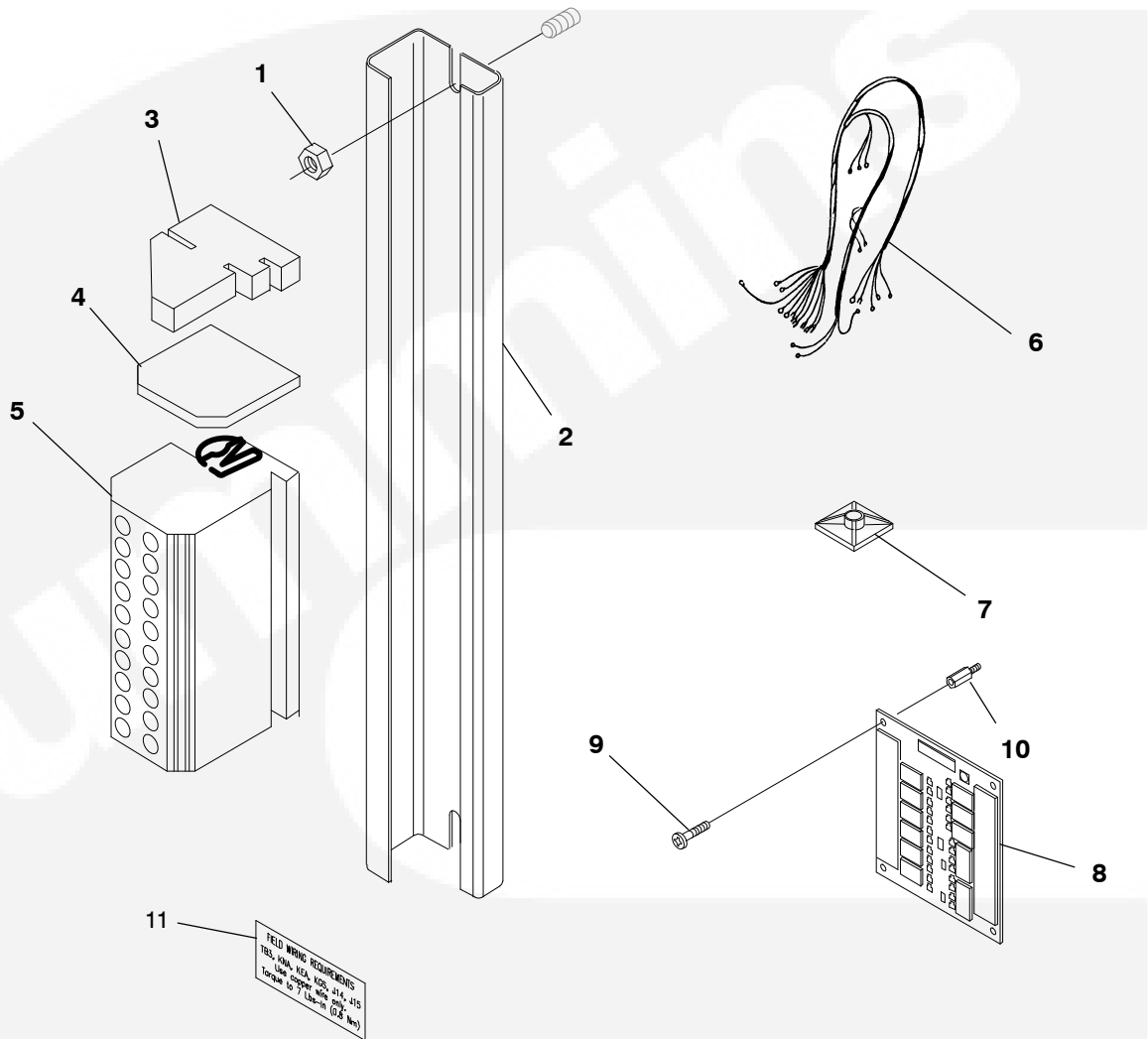
Terminal Block



A037,K001,K002,K003

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

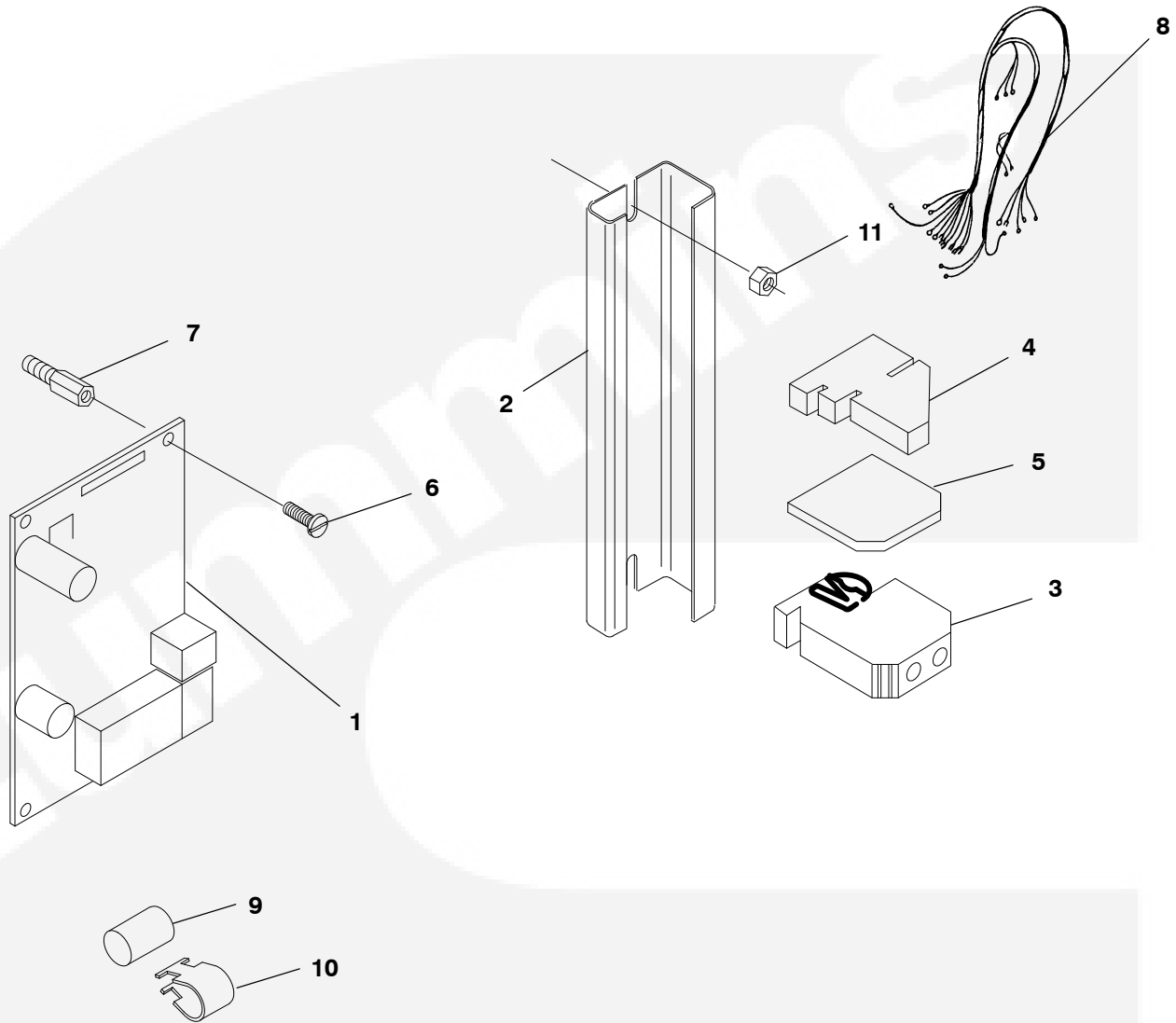
Relay Module



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

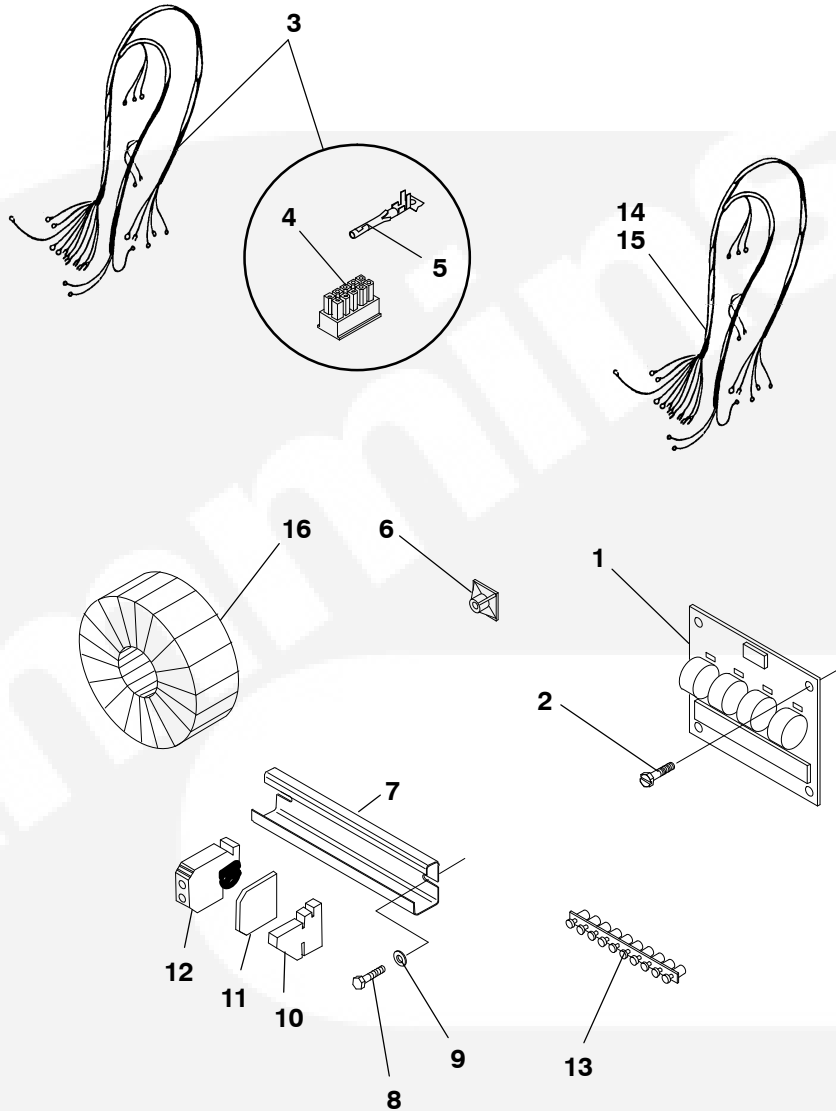
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	300-5152	1	Board, Printed Circuit - Relay Module
9	815-0959-03	4	Screw, Pan Head - Cross Recessed (M3 x 8)
10	870-2213-02	4	Standoff, Hex Threaded (M3 x 12)
11	098-7621	1	Label, Torque

Network Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5153	1	Board, Printed Circuit - Network Module	7	870-2213-02	4	Standoff, Hex Thread (M3)
2	332-2837-09	1	Rail, Terminal Block	8	338-3886	1	Harness, Network
3	332-2836-01	2	Block, Terminal (Sectional)	9		2	Battery - Lithium (3.0V) (Purchase Locally)
4	332-2839	2	Bracket, End - Terminal	10	416-1049	2	Clip, Battery
5	332-2841	1	Plate, End - Terminal	11	860-2005	2	Nut (M4 x 0.7)
6	823-0001-01	4	Screw, Pan Head (M3 x 0.5 x 6)				

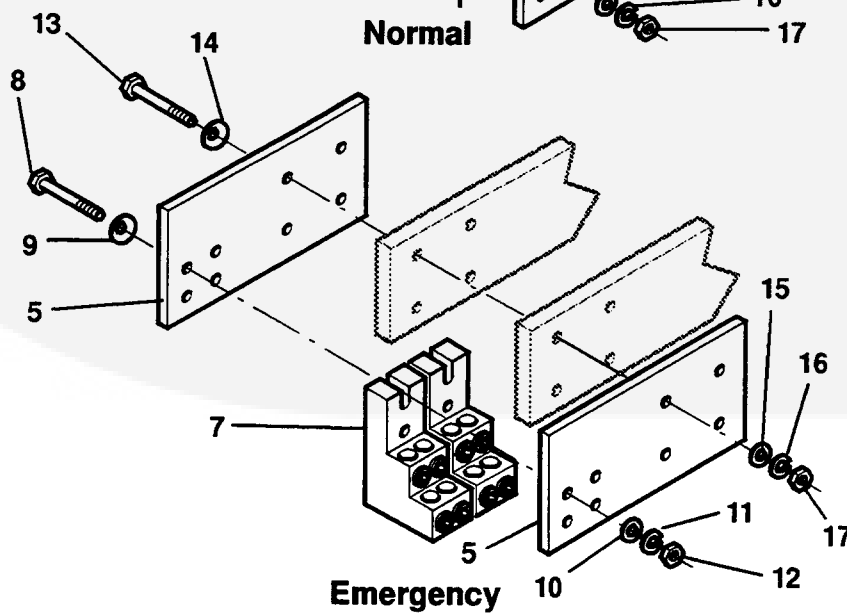
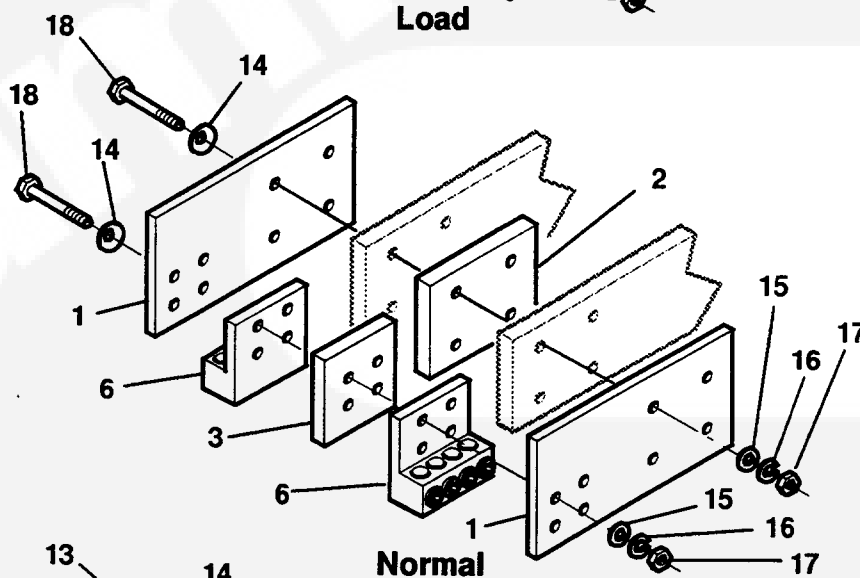
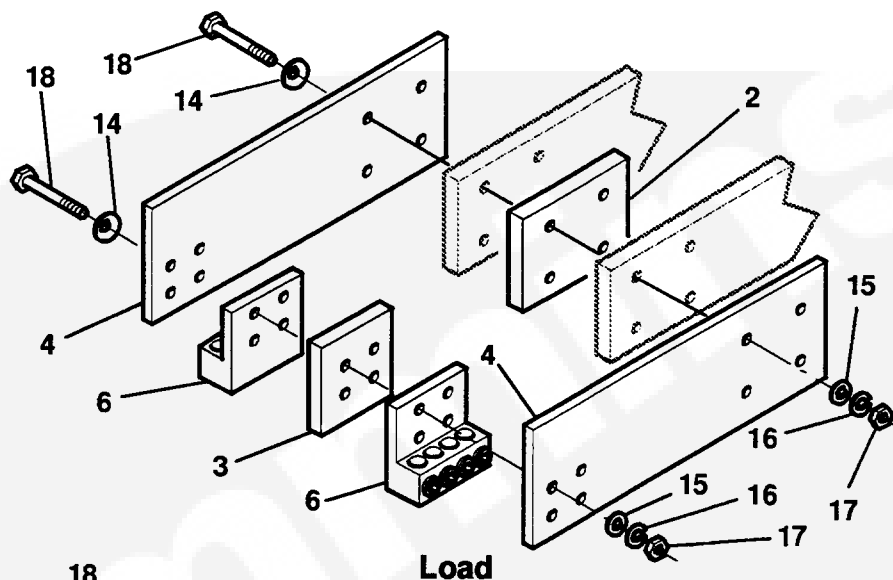
Current Transformer Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5254	1	Board, Printed Circuit – Current Module	15	338-3958	1	Harness, Current Transformer
2	823-0001-01	4	Screw, Pan Head (M3 x 0.5 x 6)	16			Transformer, Current
3	338-3884-02	1	Harness, Current Module (Includes Parts Marked *)		302-1820-13	3	1200 Amp
4	323-1806-05	2	* Connector, Receptacle (10 Pin)		302-1820-13	4	1 Phase, 2 or 3 Wire
5	332-3606	20	* Socket, Contact		302-1830-04	3	3 Phase, 3 or 4 Wire
6	332-2420	2	Mount, Cable Tie		302-1830-04	4	1600 Amp
7	332-2837-11	1	Rail, Terminal		302-1830-05	3	1 Phase, 2 or 3 Wire
8	815-0955-03	2	Screw, Phillips/Hex Head (M4 x 10)		302-1830-05	4	3 Phase, 3 or 4 Wire
9	526-0003	2	Washer, Flat				2000 Amp
10	332-2839	2	Bracket, End – Terminal		302-1830-06	3	1 Phase, 2 or 3 Wire
11	332-2841	1	Plate, End – Terminal		302-1830-06	4	3 Phase, 3 or 4 Wire
12	332-2836-02	1	Block, Terminal – Sectional				3000 Amp
13	332-2843-04	1	Jumper, Terminal – 10 Pole				1 Phase, 2 or 3 Wire
14	338-3959	1	Harness, Extension				3 Phase, 3 or 4 Wire

* – Parts Included in 338-3884-02 Wiring Harness

Lugs 1600/2000/3000 Amp

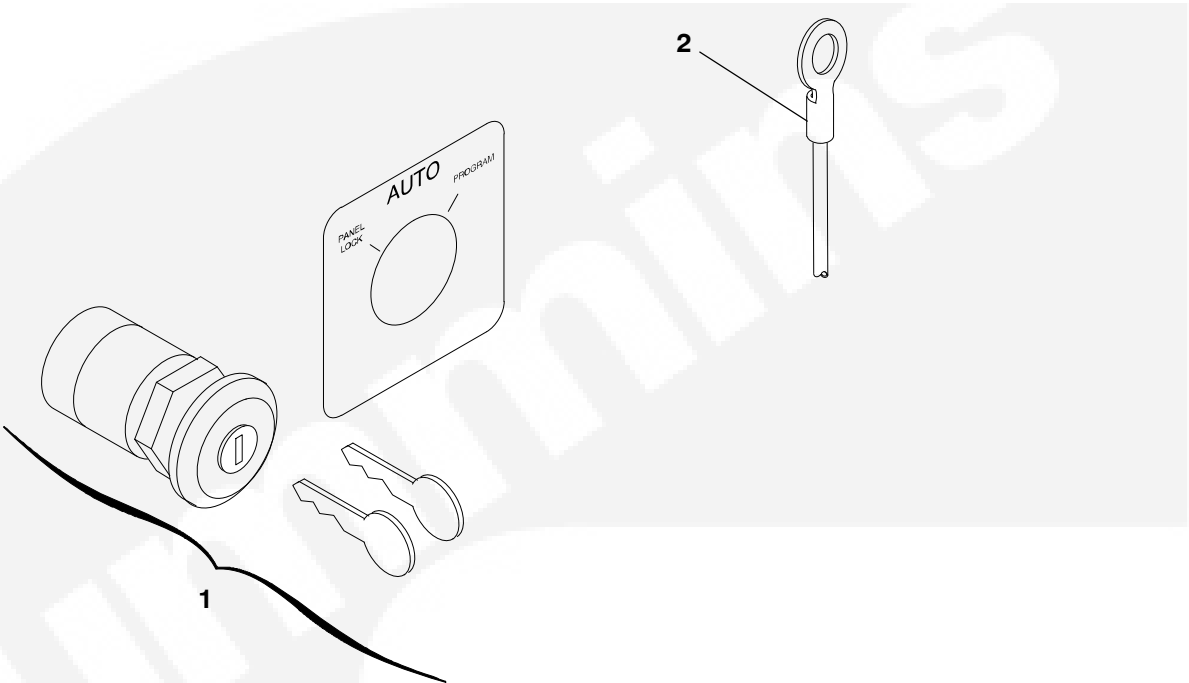


Lugs **1600/2000/3000 Amp**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bus, Adapter – Lug	7			Lug
			1600/2000 Amp		332-1557	12	3 Pole
	337-2684-01	6	3 Pole		332-1557	8	4 Pole
	337-2684-01	8	4 Pole	8			Screw, Cap – Hex Head
			3000 Amp				(3/8-16 x 2.75)
	337-2689-01	6	3 Pole		800-0057	12	3 Pole
	337-2689-01	8	4 Pole		800-0057	16	4 Pole
2			Bus, Spacer (1/4)	9			Washer, Conical – Spring (3/8)
			1600/2000 Amp		851-0022	12	3 Pole
	337-2685-01	6	3 Pole		851-0022	16	4 Pole
	337-2685-01	8	4 Pole	10			Washer, Flat (3/8)
			3000 Amp		526-0030	12	3 Pole
	337-2690-01	6	3 Pole		526-0030	16	4 Pole
	337-2690-01	8	4 Pole	11			Washer, Lock (3/8)
3			Bus, Spacer (3/8)		850-0050	12	3 Pole
			1600/2000 Amp		850-0050	16	4 Pole
	337-2686-01	6	3 Pole	12			Nut, Hex (3/8)
	337-2686-01	8	4 Pole		862-0003	12	3 Pole
			3000 Amp		862-0003	16	4 Pole
	337-2691-01	6	3 Pole	13			Screw, Cap – Hex Head
	337-2691-01	8	4 Pole				(1/2-13 x 2.75)
4			Bus, Adapter – Lug		800-0097	12	3 Pole
			1600/2000 Amp		800-0097	16	4 Pole
	337-2687-01	6	3 Pole	14			Washer, Conical – Spring (1/2)
	337-2687-01	8	4 Pole		851-0023	48	3 Pole
			3000 Amp		851-0023	80	4 Pole
	337-2692-01	6	3 Pole	15			Washer, Flat (1/2)
	337-2692-01	8	4 Pole		526-0219	48	3 Pole
5			Bus, Emergency		526-0219	80	4 Pole
			1600/2000 Amp	16			Washer, Lock (1/2)
	337-2688-01	6	3 Pole		850-0060	48	3 Pole
	337-2688-01	8	4 Pole		850-0060	80	4 Pole
			3000 Amp	17			Nut, Hex (1/2)
	337-2693-01	6	3 Pole		862-0016	48	3 Pole
	337-2693-01	8	4 Pole		862-0016	80	4 Pole
6			Lug	18			Screw, Cap – Hex Head
			1600/2000 Amp				(1/2-13 x 3.50)
	332-2427	12	3 Pole		800-0100	48	3 Pole
	332-2427	16	4 Pole		800-0100	64	4 Pole
			3000 Amp				
	332-2427	12	3 Pole				
	332-2427	16	4 Pole				



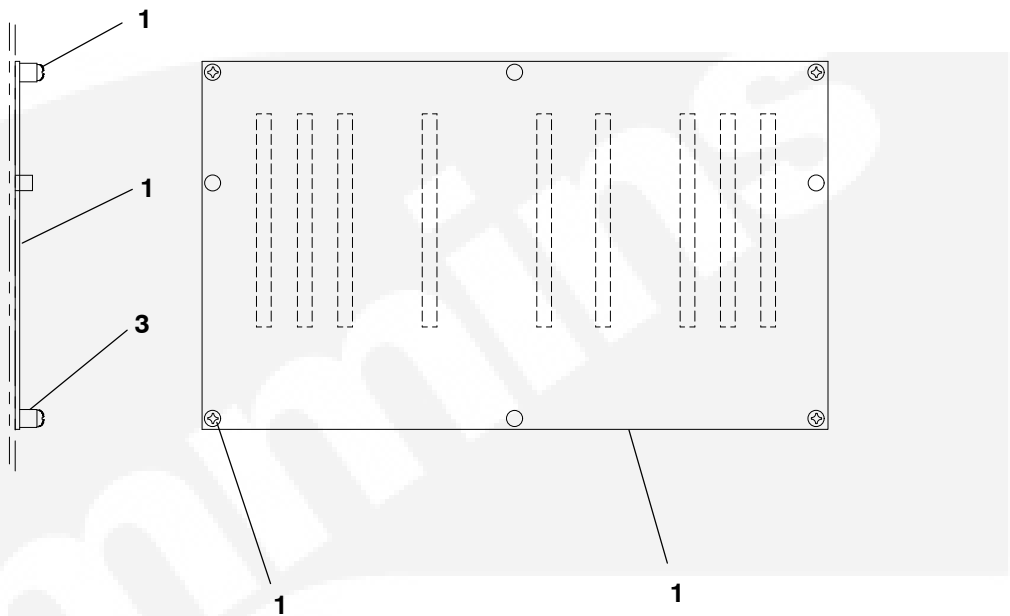
Front Panel Security



M017

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

Bar Graph Display Cover
(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	870-2218-01	4	Standoff, Nylon
2	823-0001-01	4	Screw, Pan Head (M3 x 0.5 x 6)				

Labels

1. REPLACE ALL COVERS BEFORE APPLYING POWER TO THE SWITCH

⚠ DANGER

More than one live circuit. To ensure against shock or accident hazard, disconnect all sources of supply before servicing. See diagram.

ADVERTISSEMENT-COUPER TOUTES LES SOURCES D'ALIMENTATION AVANT DE FAIRE L'ENTRETIEN ET LES REPARATIONS

0098-7735A

2. NORMAL

3. EMERGENCY

4. A B C

5. A B C

6. A B C

11. REPLACE ALL COVERS BEFORE APPLYING POWER TO THE SWITCH

⚠ DANGER

More than one live circuit. To ensure against shock or accident hazard, disconnect all sources of supply before servicing. See diagram.

ADVERTISSEMENT-COUPER TOUTES LES SOURCES D'ALIMENTATION AVANT DE FAIRE L'ENTRETIEN ET LES REPARATIONS

0098-7735A

15. NEUTRAL

14. NEUTRAL

25. PROTECTIVE EARTH (GROUND)

12. Replace all covers before applying power to the switch.

0098-7735A

13. EMERGENCY

16. NORMAL

20. CAUTION

Do not connect plugs with all interconnection wiring is completed between the Transfer Switch and Generator Set.

Check Battery Charger for proper switch setting.

0098-7735A

7. Bypass

8. Source 1

9. Source 2

10. ATS in Inhibit

11. ATS in Test

12. ATS Isolated

13. NOTICE

CRANK HANDLE WILL NOT ROTATE IF:

1. BT and ATS are not positioned to the same source.
2. Power not available.
3. Harness plugs are not connected.
4. ATS has reached limit of travel to "AUTO" or "ISOLATE".

98-6551

18. Bypass To Normal Source (Source 1)

Normal: Power must be available. Automatic Transfer Switch must be in the Normal Position.

1. Turn the Source Selector Switch to the Normal Position.
2. Insert Manual Bypass handle and move up to the Bypass Position. Bypass handle and Transfer Switch lights will be "ON".
3. Release the Source Selector Switch.

Bypass To Emergency Source (Source 2)

Emergency Power must be available. Automatic Transfer Switch must be in the Emergency Position.

1. Turn the Source Selector Switch to the Emergency Position.
2. Insert Manual Bypass handle and move up to the Bypass Position. Bypass handle and Transfer Switch lights will be "ON".
3. Release the Source Selector Switch.

17. CUSTOMER CONNECTIONS

TERMINAL TORQUE REQUIREMENTS

TORQUE - POUND-INCHES (N-m) FOR SLOTTED SCREWS SMALLER THAN NO. 10 FOR USE WITH NO. 8 AND SMALLER CONDUCTORS - UNLESS OTHERWISE MARKED BY CONDUIT CONNECTIONS - USE NEXT SMALLER TORQUE FOR INTERMEDIATE SIZES.	
SCREW SIZE	TORQUE (N-m)
1/8" (2.0)	1.5 (0.2)
5/32" (4.0)	7.0 (1.0)
1/4" (6.4)	7.0 (1.0)
3/16" (4.8)	7.0 (1.0)
1/2" (12.7)	20.0 (2.8)

LUG TIGHTENING REQUIREMENTS

NORMAL - EMERGENCY - LOAD - NEUTRAL AND GROUND LUGS ACCEPT EITHER OF 2 CONNECTIONS - ALL OTHER TERMINALS ACCEPT ONLY ONE CONNECTION. OPERATION - TORQUE - FIELD CONNECTIONS TO THE FOLLOWING VALUES:	
SCREW SIZE	TORQUE (N-m)
5/32" (4.0)	1.5 (0.2)
1/4" (6.4)	7.0 (1.0)
3/16" (4.8)	7.0 (1.0)
1/2" (12.7)	20.0 (2.8)

19. USE COPPER OR ALUMINUM WIRE FOR POWER CONNECTIONS

Use 60°C rated wire #14 to #1 awg. Use 75°C rated wire 1/0 awg and larger.

USE 60°C rated copper only wire on terminal block TB1, TB2 & TB3

0098-7735A

21. ⚠ DANGER

Hazardous Voltage. Will cause severe injury or death.

Disconnect All electrical supply sources before servicing.

⚠ WARNING

Improper operation can cause severe personal injury or death. Read operator's manual before use. Operator's manual can be obtained from your dealer.

0098-7813A

22. TB1 NORMAL

23. LOCKED

24. ⚠ WARNING

High-speed Automatic operation. Can cause severe injury. Keep fingers and tools out of slot.

25. LOCKED

26. EMERGENCY

27. TB2

28. ⚠ WARNING

Hazardous Voltage. Will cause severe injury or death.

Disconnect All electrical supply sources before servicing.

0098-5387A

26. ⚠ WARNING

Rotating parts. Can cause severe injury.

0098-6529A

27. NOTICE

POWER CABLE INSTALLATION INFORMATION

BT

28. Testing The Automatic Transfer Switch Without Load Interruption

For safety, an authorized service technician must perform this test.

1. System to the Normal source is described above.
2. After lower door of cabinet is closed, insert crank handle and insert the handle into the "TEST" position. The handle will be "ON" and the Transfer Switch lights will be "ON".
3. Return the crank handle to the "OFF" position.
4. If the handle is in the "TEST" position, the Transfer Switch will operate. Press and hold the front panel test button. The indicator light will be "ON" and the Transfer Switch will transfer to the Emergency position. The Transfer Switch will transfer to the Emergency position. The Transfer Switch will transfer to the Emergency position. The Transfer Switch will transfer to the Emergency position.
5. Release crank handle and insert the handle into the "TEST" position. The Transfer Switch lights will be "ON".
6. Return the crank handle to the "OFF" position.
7. Repeat the test.

29. ⚠ WARNING

High-speed Automatic operation. Can cause severe injury. Keep fingers and tools out of slot.

0098-6201A

30. Automatic Operation

Normal: Power must be available. Automatic Transfer Switch must be in the Normal Position.

Emergency: Power must be available. Automatic Transfer Switch must be in the Emergency Position.

31. Isolating the Automatic Transfer Switch

1. Turn the Source Selector Switch to the Emergency Position.

2. Insert Manual Bypass handle and move up to the Bypass Position. Bypass handle and Transfer Switch lights will be "ON".

3. Release the Source Selector Switch.

32. Isolating the Automatic Transfer Switch

1. Turn the Source Selector Switch to the Emergency Position.

2. Insert Manual Bypass handle and move up to the Bypass Position. Bypass handle and Transfer Switch lights will be "ON".

3. Release the Source Selector Switch.

33. ⚠ WARNING

Hazardous Voltage. Will cause severe injury or death.

Disconnect All electrical supply sources before servicing.

0098-5387A

34. TB1 NORMAL

35. LOCKED

36. ⚠ WARNING

High-speed Automatic operation. Can cause severe injury. Keep fingers and tools out of slot.

37. LOCKED

38. EMERGENCY

39. TB2

40. ⚠ WARNING

Hazardous Voltage. Will cause severe injury or death.

Disconnect All electrical supply sources before servicing.

0098-5387A

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-6006	A/R	Label, Main (Includes Labels Marked *)	18	098-6551	A/R	Label, Handle
2	098-7144	A/R	* Label, Replace Cover	19	098-6107	A/R	Label, Jumper Caution
3	098-7273	A/R	* Label, Danger	20	098-5589	A/R	Tag, Caution
4	098-7302	A/R	* Label, Caution	21	098-7613	A/R	Label, Warning
5	098-7312	A/R	* Label, Wthstnd Rating	22	098-7611	A/R	Label, Solenoid
6	098-7305	A/R	* Label, Field Connection	23	098-7663	A/R	Label, Lamp
7	098-5854-01	A/R	* Label, Bus Marking	24	098-7791	A/R	Label, Operation Instruction
8	098-5854-02	A/R	* Label, Bus Marking	25	098-6635	A/R	Label, Ground
9	098-5854-03	A/R	* Label, Bus Marking	26	098-6628	A/R	Label, Warning
10	098-7266	A/R	* Label, Emergency Normal	27	098-5387	A/R	Label, Danger
11	098-7735	A/R	Label, Danger	28	098-6584	A/R	Label, Power Cable
12	098-7144	A/R	Label, Replace Cover	29	098-6201	A/R	Label, Warning
13	098-6589	A/R	Label, Emergency Normal	30	098-6971	A/R	Tag, Caution
14	098-6588	A/R	Label, Neutral	31	098-6605-02	A/R	Label, Operation Instruction
15	098-6036	A/R	Label, Neutral				
16	098-7505	A/R	Label, Customer Wiring				
17	098-6367	A/R	Label, Torque				

* - Labels Included in 098-6006 Main Label



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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>
098-5387, 45		099-2516-07, 27		300-5180, 19 , 21 , 23 , 25		306-4354-01, 12	
098-5589, 45		099-2516-08, 27		300-5186, 19 , 23		306-4354-02, 12	
098-5708, 27		099-2516-10, 29		300-5254, 39		306-4354-03, 12	
098-5710, 26		099-2516-11, 29		300-5271, 19 , 23		306-4354-04, 12	
098-5808, 29		099-2516-12, 29		300-5392, 21 , 25		306-4354-05, 12	
098-5854-01, 45		099-2516-13, 29		300-5393, 21 , 25		306-4355-01, 8	
098-5854-02, 45		099-2516-14, 29		301-9990, 27		306-4355-02, 8	
098-5854-03, 45		099-2516-16, 29		301-9991, 27		306-4355-03, 8	
098-5997, 31		099-2516-17, 29		302-0807, 27		306-4355-04, 8	
098-6006, 45		099-2516-19, 29		302-1820-13, 39		306-4355-05, 8	
098-6036, 45		099-2516-21, 29		302-1830-04, 39		306-4356-01, 10	
098-6107, 45		099-2516-22, 29		302-1830-05, 39		306-4356-02, 10	
098-6201, 45		099-2516-24, 31		302-1830-06, 39		306-4356-03, 10	
098-6367, 45		099-2516-25, 31		302-1844, 29 , 31		306-4356-04, 10	
098-6551, 45		099-2516-26, 31		304-0015, 27		306-4356-05, 10	
098-6584, 45		099-2516-27, 31		304-0037, 27		306-4357-01, 11	
098-6588, 45		099-2516-28, 31		304-0139, 27		306-4357-02, 11	
098-6589, 45		099-2516-30, 31		305-0653, 17 , 29 , 31		306-4357-03, 11	
098-6605-02, 45		099-2516-31, 31		305-0781, 29 , 31		306-4357-04, 11	
098-6628, 45		099-2516-33, 31		306-3755-01, 21		306-4357-05, 11	
098-6635, 45		099-2516-35, 31		306-3756-01, 21		306-4358-01, 12	
098-6971, 45		099-2516-36, 31		306-3994, 19		306-4358-02, 12	
098-7144, 45		226-3554-01, 13		306-4086, 13		306-4358-03, 12	
098-7266, 45		226-3554-02, 13 , 29 , 31		306-4087, 13		306-4358-04, 12	
098-7273, 45				306-4351-01, 8		306-4358-05, 12	
098-7302, 45		226-4794-01, 42		306-4351-02, 8		306-4359-01, 8	
098-7305, 45		226-4794-02, 42		306-4351-03, 8		306-4359-02, 8	
098-7312, 45		300-2946, 27		306-4351-04, 8		306-4359-03, 8	
098-7505, 45		300-3160, 29		306-4351-05, 8		306-4359-04, 8	
098-7600, 17		300-3244, 31		306-4352-01, 10		306-4359-05, 8	
098-7611, 45		300-5147-01, 19 , 21 , 23 , 25		306-4352-02, 10		306-4359-06, 8	
098-7613, 45		300-5149-06, 19 , 21 , 23 , 25		306-4352-03, 10		306-4359-07, 8	
098-7621, 26 , 37		300-5149-07, 19 , 21 , 23 , 25		306-4352-04, 10		306-4359-08, 8	
098-7663, 45		300-5149-08, 19 , 21 , 23 , 25		306-4352-05, 10		306-4359-09, 8	
098-7735, 45				306-4353-01, 11		306-4359-10, 8	
098-7791, 45				306-4353-02, 11		306-4360-01, 9	
099-2516-02, 27		300-5151, 19 , 21 , 23 , 25		306-4353-03, 11		306-4360-02, 9	
099-2516-03, 27		300-5152, 32 , 37		306-4353-04, 11		306-4360-03, 9	
099-2516-05, 27		300-5153, 38		306-4353-05, 11		306-4360-04, 9	
099-2516-06, 27						306-4360-05, 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>
306-4360-06, 9		306-4367-01, 12		306-4373-01, 9		306-4380-01, 12	
306-4360-07, 9		306-4367-02, 12		306-4373-02, 9		306-4380-02, 12	
306-4360-08, 9		306-4367-03, 12		306-4373-03, 9		306-4380-03, 12	
306-4360-09, 9		306-4367-04, 12		306-4373-04, 9		306-4380-04, 12	
306-4360-10, 9		306-4367-05, 12		306-4373-05, 9		306-4380-05, 12	
306-4361-01, 9		306-4368-01, 12		306-4373-06, 9		306-4381-01, 13	
306-4361-02, 9		306-4368-02, 12		306-4373-07, 9		306-4381-02, 13	
306-4361-03, 9		306-4368-03, 12		306-4373-08, 9		306-4381-03, 13	
306-4361-04, 9		306-4368-04, 12		306-4373-09, 9		306-4381-04, 13	
306-4361-05, 9		306-4368-05, 12		306-4373-10, 9		306-4381-05, 13	
306-4361-06, 9		306-4369-01, 13		306-4374-01, 10		306-4382-01, 13	
306-4361-07, 9		306-4369-02, 13		306-4374-02, 10		306-4382-02, 13	
306-4361-08, 9		306-4369-03, 13		306-4374-03, 10		306-4382-03, 13	
306-4361-09, 9		306-4369-04, 13		306-4374-04, 10		306-4382-04, 13	
306-4361-10, 9		306-4369-05, 13		306-4374-05, 10		306-4382-05, 13	
306-4362-01, 10		306-4370-01, 13		306-4375-01, 10		306-4523, 19 , 21 , 23 , 25	
306-4362-02, 10		306-4370-02, 13		306-4375-02, 10		306-4632-01, 19 , 23	
306-4362-03, 10		306-4370-03, 13		306-4375-03, 10		307-2591, 17	
306-4362-04, 10		306-4370-04, 13		306-4375-04, 10		307-2873, 35	
306-4362-05, 10		306-4370-05, 13		306-4375-05, 10		307-2874, 35	
306-4363-01, 10		306-4371-01, 8		306-4376-01, 11		307-2928, 17 , 32	
306-4363-02, 10		306-4371-02, 8		306-4376-02, 11		308-0923, 17	
306-4363-03, 10		306-4371-03, 8		306-4376-03, 11		308-1094, 42	
306-4363-04, 10		306-4371-04, 8		306-4376-04, 11		315-0621-02, 27	
306-4363-05, 10		306-4371-05, 8		306-4376-05, 11		315-0621-03, 27	
306-4364-01, 11		306-4371-06, 8		306-4377-01, 11		315-0621-04, 27	
306-4364-02, 11		306-4371-07, 8		306-4377-02, 11		315-0655-02, 17	
306-4364-03, 11		306-4371-08, 8		306-4377-03, 11		315-0655-03, 17	
306-4364-04, 11		306-4371-09, 8		306-4377-04, 11		315-0655-04, 17	
306-4364-05, 11		306-4371-10, 8		306-4377-05, 11		315-0700, 29	
306-4365-01, 11		306-4372-01, 9		306-4378-01, 11		315-0701, 31	
306-4365-02, 11		306-4372-02, 9		306-4378-02, 11		315-0702, 29	
306-4365-03, 11		306-4372-03, 9		306-4378-03, 11		315-0703, 31	
306-4365-04, 11		306-4372-04, 9		306-4378-04, 11		315-0704, 29	
306-4365-05, 11		306-4372-05, 9		306-4378-05, 11		315-0705, 31	
306-4366-01, 11		306-4372-06, 9		306-4379-01, 12		315-0706, 29	
306-4366-02, 11		306-4372-07, 9		306-4379-02, 12		315-0707, 31	
306-4366-03, 11		306-4372-08, 9		306-4379-03, 12		315-0708, 29	
306-4366-04, 11		306-4372-09, 9		306-4379-04, 12		315-0709, 31	
306-4366-05, 11		306-4372-10, 9		306-4379-05, 12			

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>
315-0710, 29		323-1200, 19 , 21 , 23 , 25 , 29 , 31		332-2836-02, 26 , 36 , 37 , 39		338-3886, 38	
315-0711, 31		323-1252, 19 , 21 , 23 , 25		332-2837-09, 26 , 36 , 37 , 38		338-3891, 37	
315-0712, 29		323-1253, 19 , 21 , 23 , 25		332-2837-11, 39		338-3899-01, 21	
315-0713, 31		323-1302, 26 , 29 , 31		332-2839, 26 , 36 , 37 , 38 , 39		338-3899-02, 19 , 23 , 25	
319-0072, 29 , 31		323-1315, 19 , 21 , 23 , 25		332-2841, 26 , 36 , 37 , 38 , 39		338-3900, 21	
319-0073, 29 , 31		323-1317, 19 , 21 , 23 , 25		332-2843-04, 39		338-3901, 19 , 23	
319-1490, 19		323-1318, 29 , 31		332-2878, 35		338-3908, 19 , 23 , 25	
319-1614, 19 , 21		323-1374-05, 29 , 31		332-2879-02, 35		338-3909, 32	
319-1615, 23 , 25		323-1374-10, 26		332-2880, 33		338-3958, 39	
319-1616, 16		323-1525, 19 , 21 , 23 , 25		332-3059, 19 , 21 , 23 , 25		338-3959, 39	
319-1633, 19		323-1703, 19 , 21 , 23 , 25		332-3091, 19 , 21 , 23 , 25		364-0003, 29 , 31	
319-2274, 21 , 25		323-1806-05, 39		332-3092, 23 , 25		370-4061, 19 , 23	
319-3791-01, 17 , 23 , 25		323-1806-08, 19 , 21		332-3106, 15		416-1049, 19 , 21 , 23 , 25 , 38	
319-3805, 17		323-1806-09, 19 , 21		332-3169, 34		517-0137, 19 , 21 , 23 , 25	
319-4132-01, 23		323-1806-12, 19 , 21		332-3491-02, 32		526-0003, 35 , 39	
319-4139-01, 43		323-1856, 19 , 21		332-3606, 39		526-0008, 19 , 21	
319-4183-01, 17		323-1857, 19 , 21 , 23 , 25		332-3675, 19 , 21		526-0018, 25	
319-4389-01, 19 , 23		323-1858, 19 , 21 , 23 , 25 , 32		337-2354, 14		526-0030, 41	
321-0127, 29 , 31		323-1859, 19 , 21 , 32		337-2595-01, 34		526-0041, 16	
321-0153, 27		332-0051, 19		337-2684-01, 41		526-0219, 41	
321-0175, 27 , 29 , 31		332-0772, 33		337-2685-01, 41		526-2050, 17	
321-0237, 29 , 31		332-0912, 23		337-2686-01, 41		800-0005, 26	
321-0303-02, 29 , 31		332-1348, 33		337-2687-01, 41		800-0008, 15	
321-0304-01, 29		332-1557, 41		337-2688-01, 41		800-0009, 33	
321-0304-02, 29		332-2016, 34		337-2689-01, 41		800-0032, 16	
321-0304-03, 29 , 31		332-2420, 19 , 21 , 26 , 37 , 39		337-2690-01, 41		800-0048, 16	
321-0304-04, 29 , 31		332-2427, 41		337-2691-01, 41		800-0049, 19 , 21	
321-0304-05, 31		332-2512, 14 , 15 , 16		337-2692-01, 41		800-0050, 14 , 15 , 16	
321-0304-06, 31		332-2542, 19 , 23		337-2693-01, 41		800-0051, 16	
322-0133, 19 , 23		332-2660, 14		337-2831, 16		800-0057, 41	
322-0137, 21 , 25		332-2832, 19 , 21 , 23 , 25		337-2957-01, 15		800-0097, 41	
322-0170, 21 , 25		332-2834, 14 , 15		338-2223, 29 , 31		800-0100, 41	
322-0387-02, 21 , 25		332-2836-01, 38		338-2350, 26		800-3020, 21 , 23 , 25	
322-0451-01, 19				338-3878-02, 19 , 21		809-0035, 29 , 31	
322-0451-02, 19 , 23				338-3881, 21 , 25		810-0193, 17	
322-0451-03, 19 , 23				338-3884-02, 39		813-0112, 27	
322-0451-04, 23						813-0116, 27	
323-1199, 19 , 21 , 23 , 25						815-0285, 14	

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>
815-0403, 23 , 25		862-0015, 16					
815-0419, 19 , 23		862-0016, 41					
815-0446, 19 , 21 , 23 , 25		870-0131, 27					
815-0504, 19 , 21		870-0212, 17 , 19 , 23 , 25 , 26 , 33					
815-0538, 19 , 23		870-0221, 29 , 31					
815-0539, 29 , 31		870-0257, 34					
815-0651, 19 , 21 , 23 , 25		870-0263, 29 , 31					
815-0667, 34		870-2207, 17					
815-0792-02, 17 , 26		870-2213-02, 32 , 37 , 38					
815-0792-05, 17 , 32		870-2216, 19 , 21 , 23 , 25					
815-0902, 27 , 29 , 31		870-2218-01, 43					
815-0955-03, 39							
815-0959-03, 37							
818-0193, 19 , 21							
821-0012, 33							
821-0018, 33							
821-0020, 34							
821-0023, 34							
821-0040, 27 , 29 , 31							
822-0085, 14 , 25							
822-0091, 14							
823-0001-01, 19 , 21 , 23 , 25 , 32 , 38 , 39 , 43							
850-0039, 14 , 15							
850-0040, 25							
850-0045, 16							
850-0050, 19 , 21 , 41							
850-0060, 41							
851-0022, 14 , 15 , 16 , 41							
851-0023, 41							
851-0285, 15							
853-0005, 35							
856-0021, 17							
860-0008, 19 , 23 , 35							
860-2005, 37 , 38							
860-2025, 17							
862-0001, 25							
862-0003, 41							

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