



Parts Manual

Our energy working for you.™



**Power
Generation**

Transfer Switch

40/70/125 Amps

OTECA (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 Cummins Power Generation OTEC 40/70/125 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
A029	4-Pole Switch	L201	Auxiliary Relay – 12 VDC Coil
A041	One Phase – 2 or 3 wire	L202	Auxiliary Relay – Emergency Position – 12 VDC
A042	Three Phase – 3 or 4 wire	L203	Auxiliary Relay – Normal Position – 12 VDC
A044	Frequency – 60 Hz	M003	Terminal Block – 30 Points
A045	Frequency – 50 Hz	M032	Relay – Elevator Signal
A046	Listing – UL	M033	Genset Starting Battery – 12V DC
B001	Cabinet – Type 1	M034	Genset Starting Battery – 24V DC
B002	Cabinet – Type 3R	N002	Terminal Block – Battery Charger Alarm
B003	Cabinet – Type 4	R020	Voltage – 120
B010	Cabinet – Type 12	R021	Voltage – 208
J030	Exercise Clock – External	R023	Voltage – 240
K001	Battery Charger – 2 Amp, 12/24V	R027	Voltage – 600
K002	Battery Charger – 10 Amp, 12V	R035	Voltage – 440
K003	Battery Charger – 10 Amp, 24V	R038	Voltage – 190
L101	Auxiliary Relay – 24 VDC Coil	S046	Current Rating – 40 Amps
L102	Auxiliary Relay – Emergency Position – 24 VDC	S047	Current Rating – 70 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC	S048	Current Rating – 125 Amps

A

Actuator, Linear – Transfer Switch, **9**
Alarm, Battery Charger, **20**
Ammeter – DC – 10 Amp, 12 Volt Battery Charger, **23**
Ammeter – DC – 10 Amp, 24 Volt Battery Charger, **25**
Ammeter – DC – 2 Amp, 12/24 Volt Battery Charger, **21**
Arm, Interlock – Transfer Switch, **9**

B

Bar, Interlock – Transfer Switch, **9**
Barrier – Transfer Switch, **7**
Barrier, Base – Transfer Switch, **9**
Base, Mounting – Transfer Switch, **7**
Block and Contact Assembly – Transfer Switch, **9**
Block and Cross Bar Assembly – Transfer Switch, **9**
Block, Lug Mounting – Transfer Switch, **9**
Block, Terminal, **27**
Block, Terminal – Battery Charger Alarm, **20**
Block, Terminal – Transfer Switch, **7**
Board, Printed Circuit – 10 Amp, 12 Volt Battery Charger, **23**
Board, Printed Circuit – 10 Amp, 24 Volt Battery Charger, **25**
Board, Printed Circuit – 2 Amp, 12/24 Volt Battery Charger, **21**
Bracket, Connector – Accessory Control Plate – 600 Volt, **18**
Bracket, Connector – Accessory Control Plate – Less than 600 Volt, **19**
Bracket, Door – Type 4 Cabinet, **17**
Bracket, End – Auxiliary Relay, **26**
Bracket, End – Terminal – Battery Charger Alarm, **20**
Bracket, Terminal – Transfer Switch, **7**
Breaker, Circuit – Transfer Switch, **9**

C

Capacitor – Transfer Switch, **9**
Charger, Battery – 10 Amp, 12 Volt, **23**
Charger, Battery – 10 Amp, 24 Volt, **25**
Charger, Battery – 2 Amp, 12/24 Volt, **21**
Chute, Arc – Transfer Switch, **9**
Clock, Exercise, **28**
Cover, Arc Chute – Transfer Switch, **9**
Cover, Charger – 10 Amp, 12 Volt Battery Charger, **23**
Cover, Charger – 10 Amp, 24 Volt Battery Charger, **25**
Cover, Charger – 2 Amp, 12/24 Volt Battery Charger, **21**
Cover, Labeled – Transfer Switch, **7**
Cover, Relay Plate – Accessory Control Plate – 600 Volt, **18**
Cover, Relay Plate – Accessory Control Plate – Less than 600 Volt, **19**

D

Display, Control, **13, 15, 17**
Door, Cabinet – Type 1, **13**
Door, Cabinet – Type 3R and 12, **15**
Door, Cabinet – Type 4, **17**

F

Fuse – 10 Amp, 12 Volt Battery Charger, **23**
Fuse – 10 Amp, 24 Volt Battery Charger, **25**
Fuse – 2 Amp, 12/24 Volt Battery Charger, **21**

G

Gasket, Door – Type 3R and 12 Cabinet, **15**
Gasket, Door – Type 4 Cabinet, **17**

H

Handle, Door – Type 3R and 12 Cabinet, **15**
Handle, Locking – Type 1 Cabinet, **13**

Harness, Wiring – 10 Amp, 12 Volt Battery Charger, **23**

Harness, Wiring – 10 Amp, 24 Volt Battery Charger, **25**

Harness, Wiring – 2 Amp, 12/24 Volt Battery Charger, **21**

Harness, Wiring – Battery Charger Alarm, **20**

Harness, Wiring – Main – Type 1 Cabinet, **13**

Harness, Wiring – Main – Type 3R and 12 Cabinet, **15**

Harness, Wiring – Main – Type 4 Cabinet, **17**

Holder, Fuse – 10 Amp, 12 Volt Battery Charger, **23**

Holder, Fuse – 10 Amp, 24 Volt Battery Charger, **25**

Holder, Fuse – 2 Amp, 12/24 Volt Battery Charger, **21**

I

Insulator, Arc Chute – Transfer Switch, **9**

L

Latch, Cam – Type 1 Cabinet, **13**

Latch, Cam – Type 3R and 12 Cabinet, **15**

Lead – Type 1 Cabinet, **13**

Lead – Type 3R and 12 Cabinet, **15**

Lead – Type 4 Cabinet, **17**

Lug, Solderless – Transfer Switch, **9**

Lug, Solderless – Type 1 Cabinet, **13**

Lug, Solderless – Type 3R and 12 Cabinet, **15**

Lug, Solderless – Type 4 Cabinet, **17**

P

Plate, Accessory Control – 600 Volt, **18**

Plate, Accessory Control – Less than 600 Volt, **19**

Plate, End – Terminal – Battery Charger Alarm, **20**

Plate, Handle Mounting – Transfer Switch, **9**

Plate, Mounting – Battery Charger Alarm, **20**

Plate, Relay – Accessory Control Plate – 600 Volt, **18**

Plate, Relay – Accessory Control Plate – Less than 600 Volt, **19**

R

Rail, Terminal – Auxiliary Relay, **26**

Rail, Terminal Block – Battery Charger Alarm, **20**

Rectifier, Bridge – 10 Amp, 12 Volt Battery Charger, **23**

Rectifier, Bridge – 10 Amp, 24 Volt Battery Charger, **25**

Rectifier, Gate – 10 Amp, 12 Volt Battery Charger, **23**

Rectifier, Gate – 10 Amp, 24 Volt Battery Charger, **25**

Relay, Auxiliary, **26**

Relay, Control – Auxiliary Relay, **26**

Resistor, Fixed – 2 Amp, 12/24 Volt Battery Charger, **21**

Rod, Actuator – Transfer Switch, **7**

Rod–End, Actuator – Transfer Switch, **7**

S

Signal, Elevator, **26**

Spacer, Actuator – Transfer Switch, **7**

Spacer, Mounting Block – Transfer Switch, **9**

Spring, Conical – Type 4 Cabinet, **17**

Strap, Jumper – Transfer Switch, **9**

Strap, Load – Transfer Switch, **9**

Strip, Marker – Transfer Switch, **9**

Switch Assembly, Auxiliary, **10**

T

Transfer Switch Assembly, **7**

Transformer – 10 Amp, 12 Volt Battery Charger, **23**

Transformer – 10 Amp, 24 Volt Battery Charger, **25**

Transformer – 2 Amp, 12/24 Volt Battery Charger, **21**

Transformer, Power – Type 1 Cabinet, **13**

Transformer, Power – Type 3R and 12 Cabinet, **15**

Transformer, Power – Type 4 Cabinet, **17**

Charger, **21**

Wrapper, Charger – 10 Amp, 12 Volt Battery
Charger, **23**

W

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

Wrapper, Charger – 10 Amp, 24 Volt Battery
Charger, **25**

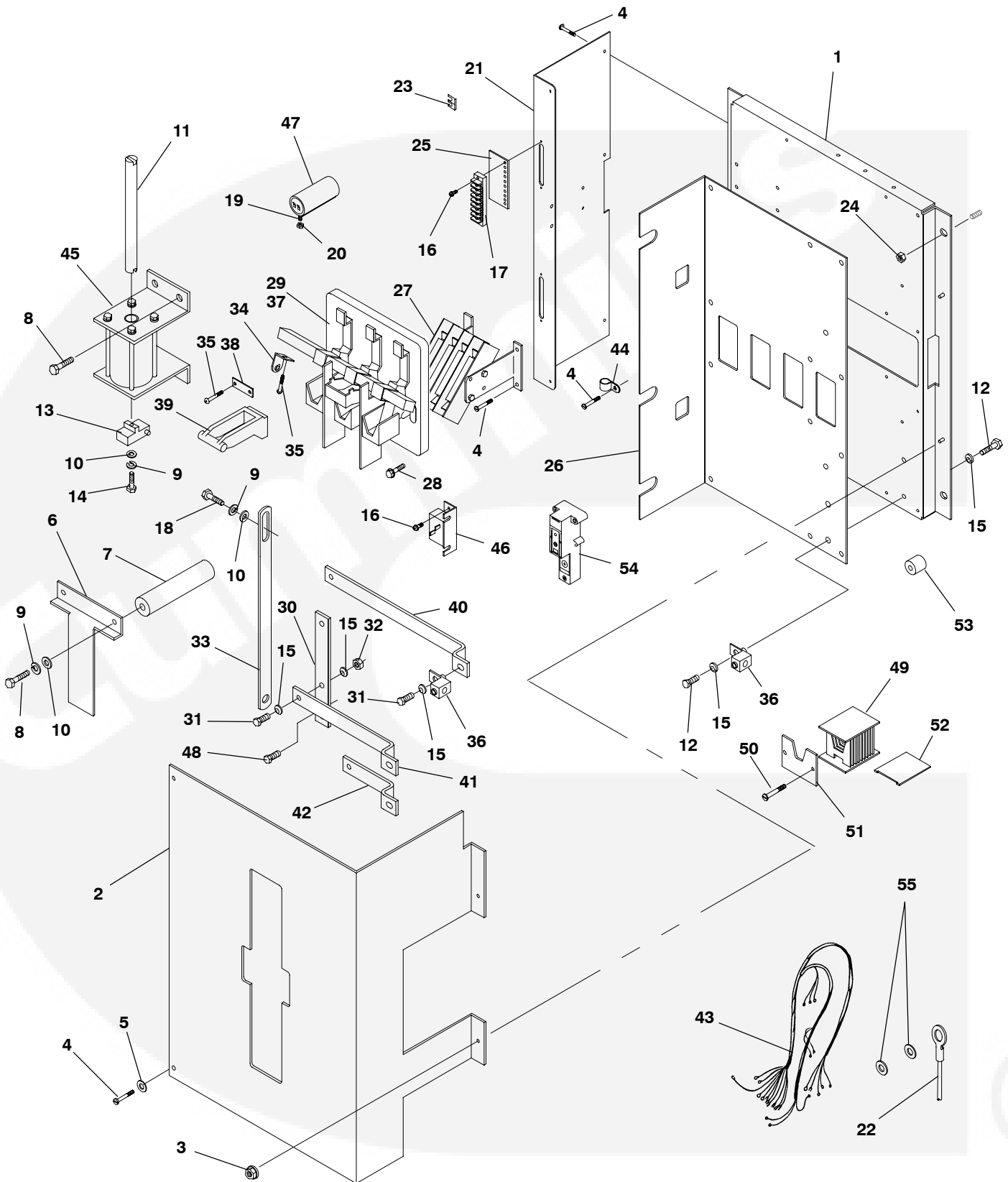


Abbreviations

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

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

Transfer Switch



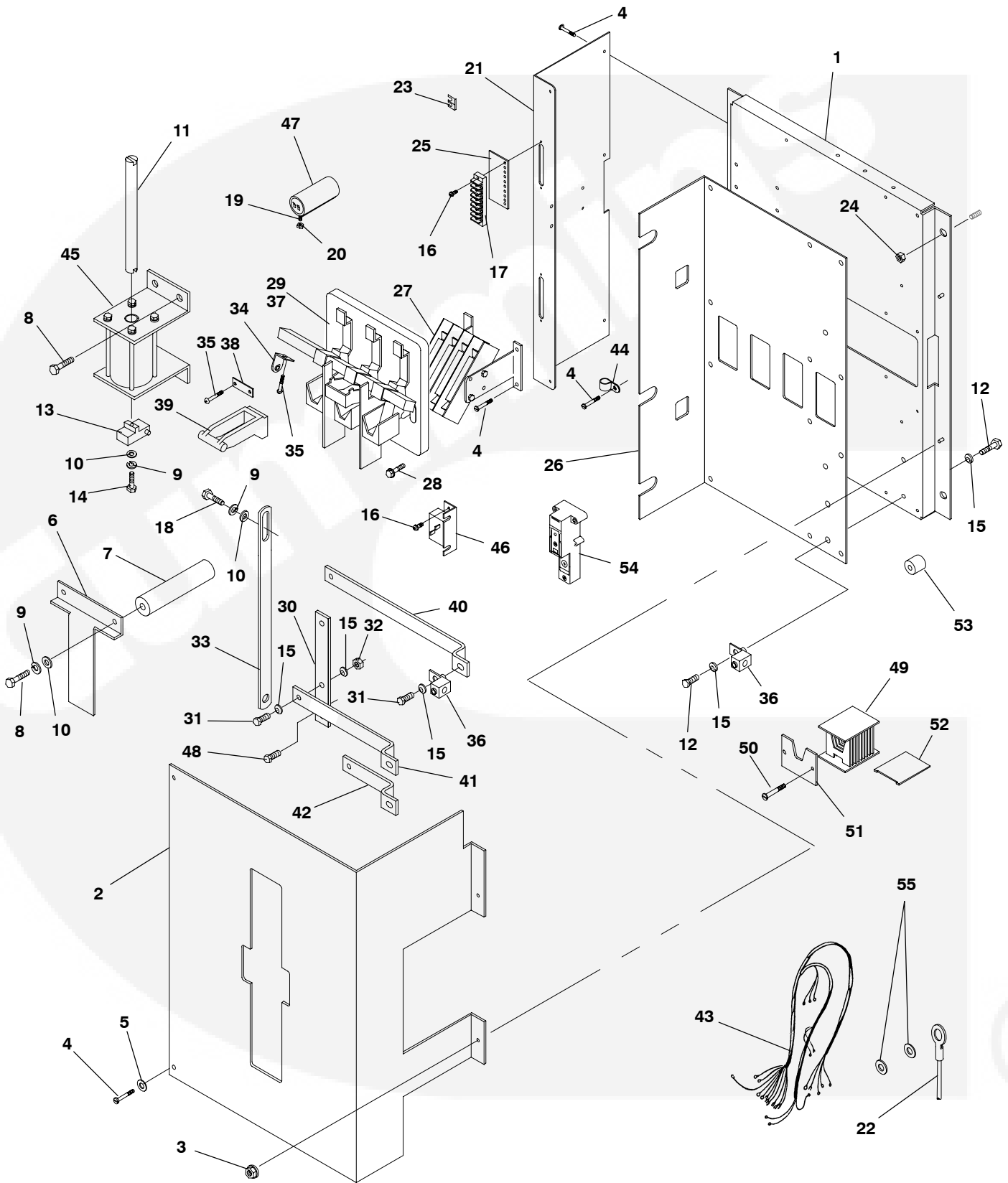
Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Transfer Switch Assembly	8	800-0021	4	Screw, Cap – Hex Head (1/4–20 x 4.50)
			4-Pole, Front Connect with Mechanical Lugs	9	850-0040	8	Washer, Lock (1/4)
			40 Amp	10	526-0018	8	Washer, Flat (1/4)
	306-5327-01	1	120 VAC	11	306-3473	1	Rod, Actuator
	306-5327-02	1	190 VAC	12	800-0027	16	Screw, Cap – Hex Head (5/16–18 x .88) – 4-Pole
	306-5327-03	1	208/220/240/600* VAC	13	306-3400-02	2	Rod-End, Actuator
	306-5327-04	1	380/416 VAC	14	800-0008	2	Screw, Cap – Hex Head (1/4–20 x 1.25)
	306-5327-05	1	440/480 VAC	15	851-0028	23	Washer, Spring – Conical (5/16) – 4-Pole
			70 Amp	16	815-0651	6	Screw, Round Head – Cross Recessed (#6–32 x .75)
	306-5328-01	1	120 VAC	17	332-2832	2	Block, Terminal
	306-5328-02	1	190 VAC	18	800-0003	2	Screw, Hex Head (1/4–20 x .50)
	306-5328-03	1	208/220/240/600* VAC	19	815-0029	A/R	Screw, Flat Head – Cross Recessed (#10–32 x .50)
	306-5328-04	1	380/416 VAC	20	870-0131	A/R	Nut, Hex – W/ET (#10–32)
	306-5328-05	1	440/480 VAC	21	306-3418	1	Bracket, Terminal
			125 Amp	22	226-3380	1	Lead (380/416/440/480 VAC)
	306-5321-01	1	120 VAC	23	332-2605	1	Jumper, Terminal
	306-5321-02	1	190 VAC	24	870-0281	4	Nut, Lock (3/8–16)
	306-5321-03	1	208/220/240/600* VAC				
	306-5321-04	1	380/416 VAC				
	306-5321-05	1	440/480 VAC				
1	306-3574	1	Base, Mounting				
2	306-4269	1	Cover, Labeled				
3	870-0320	2	Nut, Self-Locking (#10–32)				
4	815-0652	14	Screw, Hex Head – Slotted – W/IT (#10–32 x .50)				
5	526-0008	3	Washer, Flat (#10)				
6	306-2340	2	Barrier				
7	306-3483	4	Spacer, Actuator				

* Switch is actually 208 volts – A large transformer in the system reduces the 600 volt system voltage down to 208 volts.

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Transfer Switch

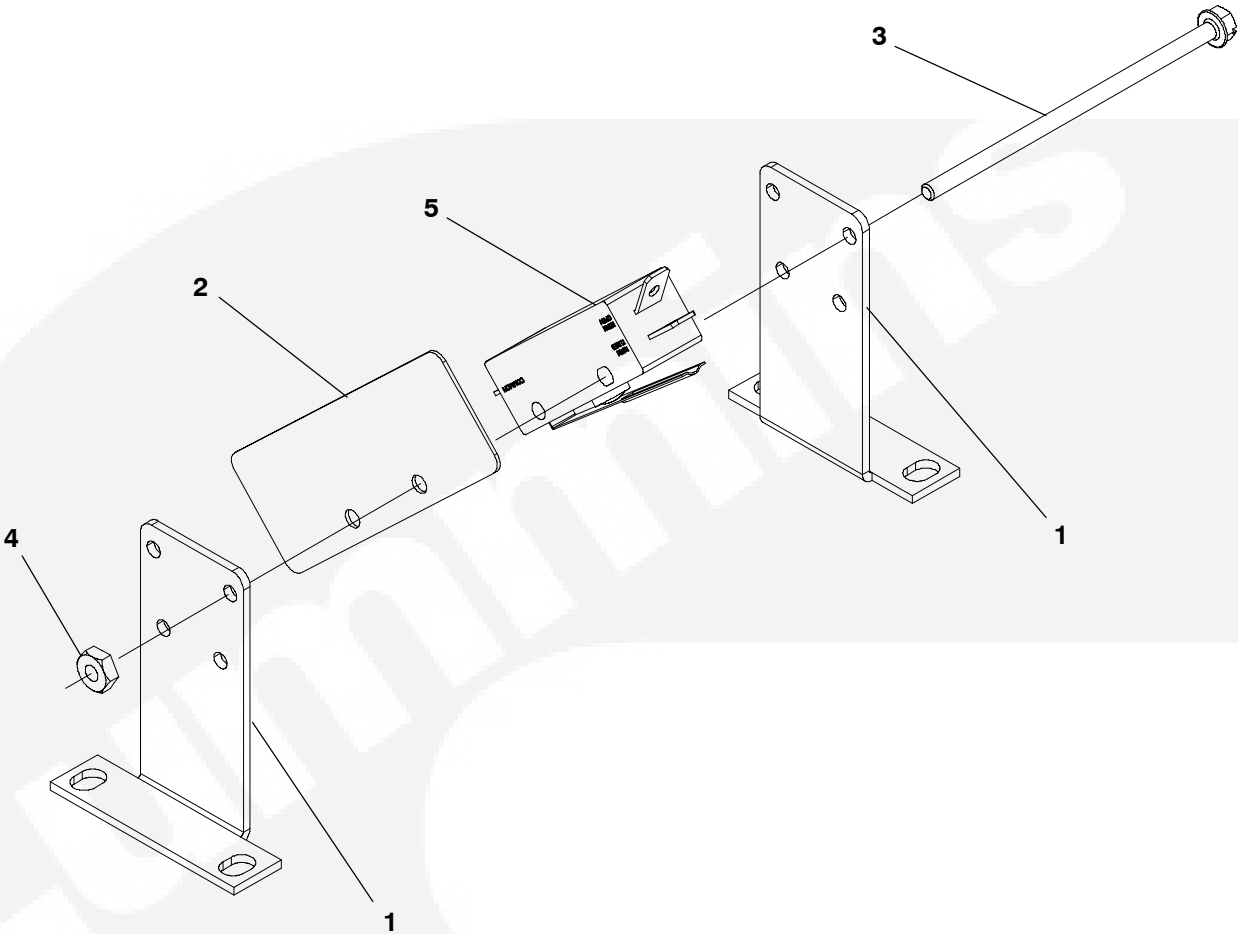


Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
25	332-2903	2	Strip, Marker	45			Actuator, Linear
26	306-3575	1	Barrier, Base		306-3471-01	1	120 VAC
27			Switch Assembly, Auxiliary		306-3471-02	1	190 VAC
			(See Separate Page For		306-3471-03	1	208/220/240/600* VAC
			Components)		306-3471-05	1	380/416 VAC
	306-4748	1	Normal		306-3471-06	1	440/480 VAC
	306-4749	1	Emergency	46			Breaker, Circuit
28	815-0667	1	Screw, Self-Locking – Hex		320-0609	1	120 VAC
			Head – Thread Forming –		320-0608	1	190/208/220/240/600* VAC
			W/IT (1/4–20 x 1.25) – 4-Pole		320-0606	1	380/416/440/480 VAC
29	306-4080-02	1	Block and Cross Bar Assembly	47			Capacitor
			– Emergency – 4-Pole		312-0209	1	120 VAC
30	337-2365	4	Strap, Jumper – 4-Pole		312-0204	1	190/208/220/240/600* VAC
31	800-0030	3	Screw, Cap – Hex Head (5/16 x		312-0203	2	380/416/440/480 VAC
			1.25) – 4-Pole	48	800-0028	1	Screw, Cap – Hex Head
32	862-0015	2	Nut, Hex (5/16–18) – 4-Pole				(5/16–18 x 1.00) 4-Pole
33	306-3482	1	Bar, Interlock	49	306-0268	2	Chute, Arc – 4-Pole
34	306-0508	2	Arm, Interlock	50	815-0527	4	Screw, Pan Head – Thread
35	815-0446	8	Screw, Cross-Recessed –				Cutting (#10–32 x .50) –
			Round Head – W/IT (#8–32 x				4-Pole
			.50)	51	306-3576	2	Cover, Arc Chute – 4-Pole
36			Lug, Solderless	52	306-2352	2	Insulator, Arc Chute – 4-Pole
	332-3038	12	70/125 Amp – Front Connect	53	306-3627	2	Spacer, Mounting Block –
	332-3514	12	40 Amp – Front Connect				4-Pole
			Note: Must Also Order Bus	54	306-3578	2	Block and Contact Assembly –
			Bar Riser 337-4011 For				4-Pole
			Each Lug (12 Per Switch)	55	526-0020	2	Washer, Bolt (3/8)
37	306-4080-01	1	Block and Cross Bar Assembly		306-3573	1	Block, Lug Mounting – (Not
			– Normal – 4-Pole				Illustrated)
38	306-1396	2	Plate, Handle Mounting		815-0656	6	Screw, Machine – Round Head
39	306-1842	2	Handle, Actuator (See				(1/4–20 x 2.75) (Not
			Separate Page For				Illustrated)
			Components)		815-0290	4	Screw, Thread Forming (1/4–20
40	337-2410-01	1	Strap, Load				x .62) – 4-Pole (Not
41	337-2410-02	1	Strap, Load				Illustrated)
42	337-2410-03	1	Strap, Load		821-0016	1	Screw, Washer Head (5/16–18
43	338-3792	1	Harness, Wiring				x .75) – 4-Pole (Not
44	332-2542	1	Clamp, Cable				Illustrated)

* Switch is actually 208 volts – A large transformer in the system reduces the 600 volt system voltage down to 208 volts.

Auxiliary Switch Assembly

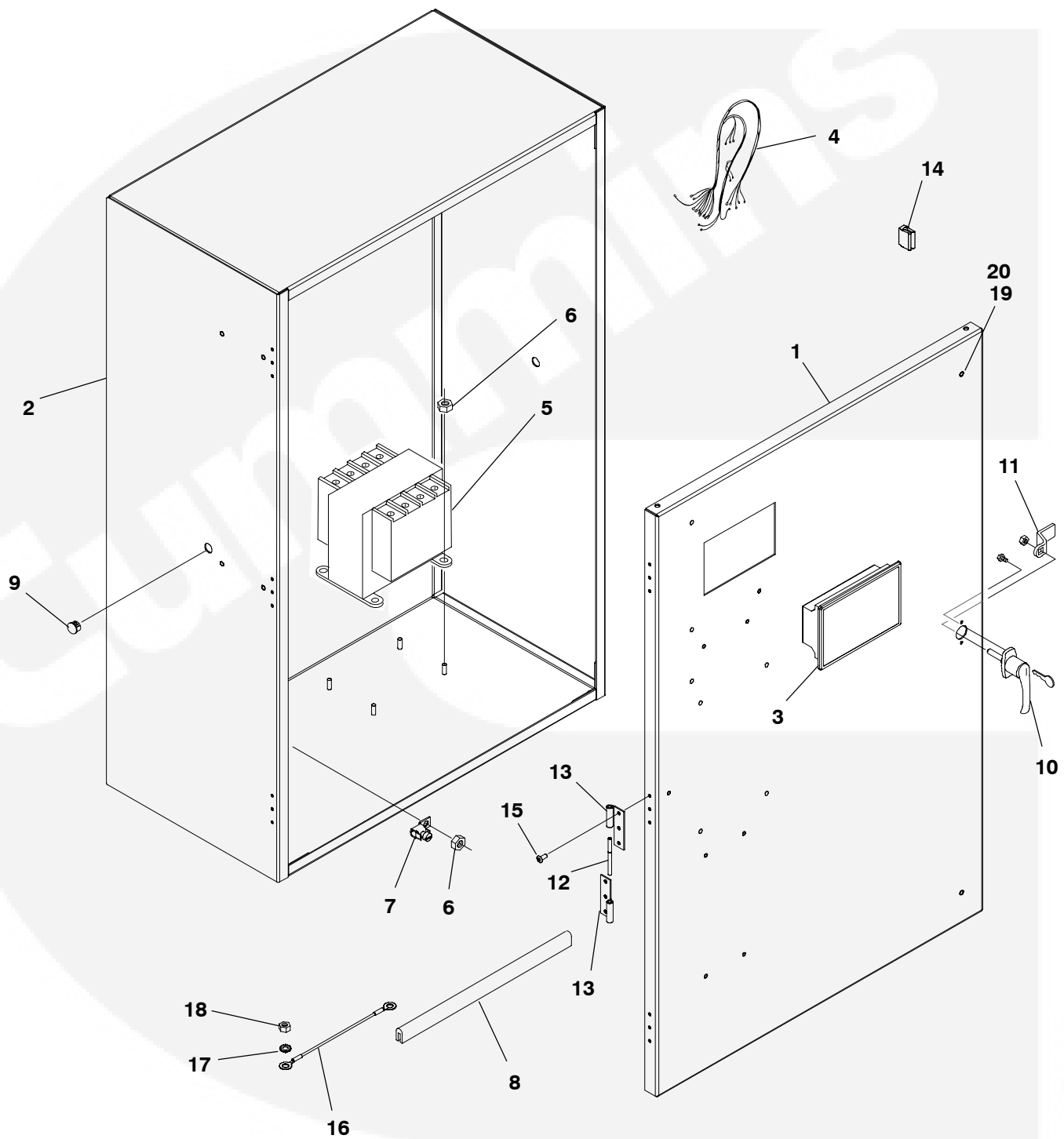


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4748	1	Switch Assembly, Auxiliary	3	815-0686	2	Screw, Cap – Hex Head (#6-32 x 3-1/4)
	306-4749	1	Normal	4	870-0201	2	Nut, Lock (#6-32)
1	306-3420	2	Bracket, Switch – Auxiliary	5	308-1166	4	Switch, Lever – Snap Action
2	306-3391	5	Barrier, Switch				

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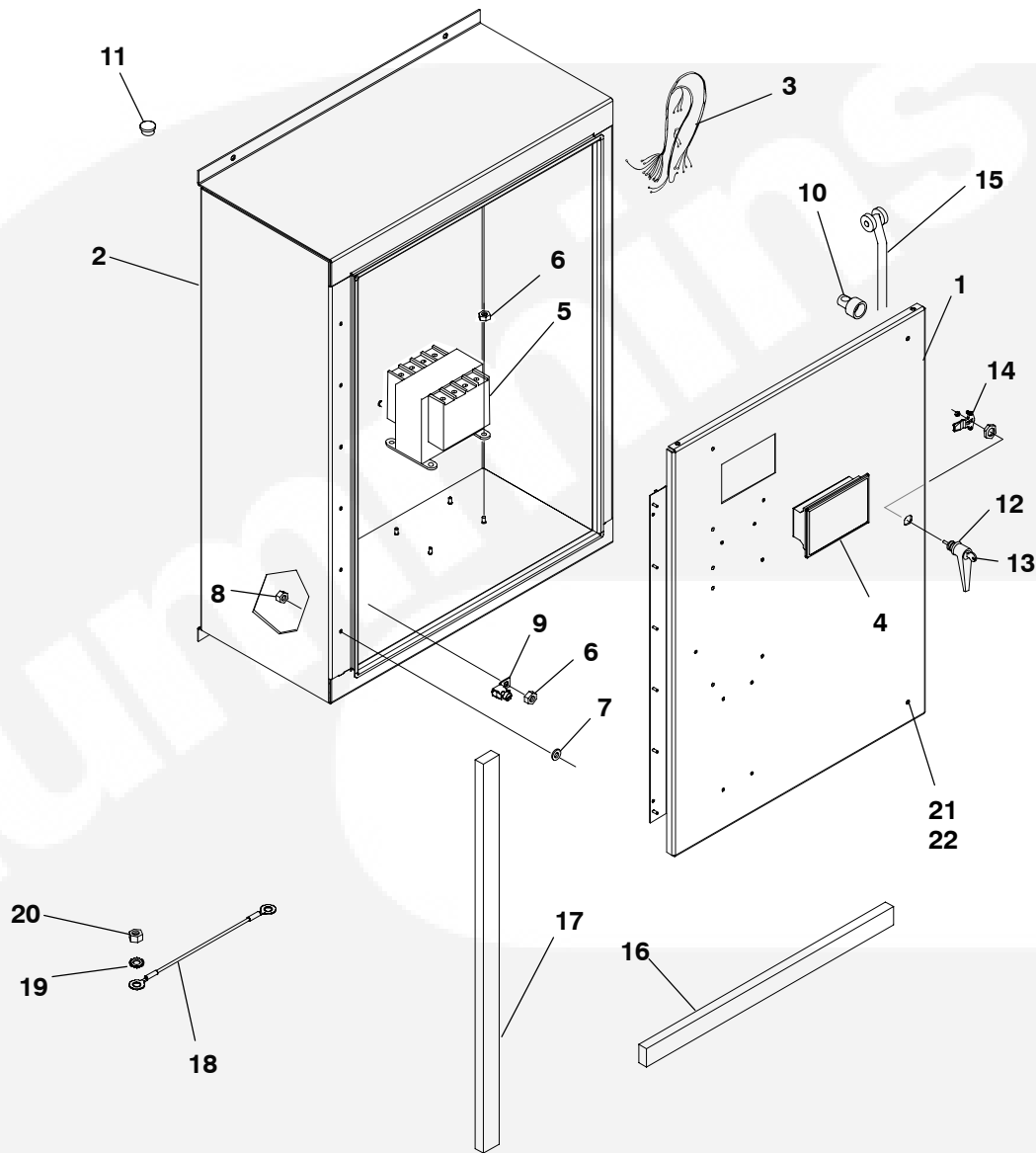
Cabinet Type 1



Cabinet Type 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5400-02	1	Door, Cabinet – 40/70/125 Amp	8	508-1045	2	Edge, Protection
2	319-3864-02	1	Cabinet – 40/70/125 Amp	9	517-0135	6	Plug, Hole
3	300-5889	1	Display, Control (Includes Gasket and Clips)	10	406-0809	1	Handle, Locking (Includes Hardware and 2 Keys)
	234-1032	1	Gasket, Cover	11	406-0933	1	Latch, Cam– 40/70/125 Amp
	518-0731	2	Clip, Retaining	12	406-0966	A/R	Pin, Hinge
4			Harness, Main – 40/70/125 Amp	13	406-0965	A/R	Blade, Lifting Hinge
	338-4434	1	All Except 600 VAC	14	508-1186	A/R	Bumper
	338-4473	1	600 VAC	15	818-0231-02	12	Rivet, Pop
5	315-0661	1	Transformer, Power (600 VAC Only)	16	226-4916-01	1	Lead
6	870-0212	A/R	Nut, Self-Locking (1/4-20)	17	853-2005	2	Washer – W/ET (M5)
7	332-3647	3	Lug, Solderless (1/4")	18	860-2006	6	Nut, Hex (M5)
				19	406-1146	2	Fastener, Panel
				20	406-1147	2	Washer, Retainer

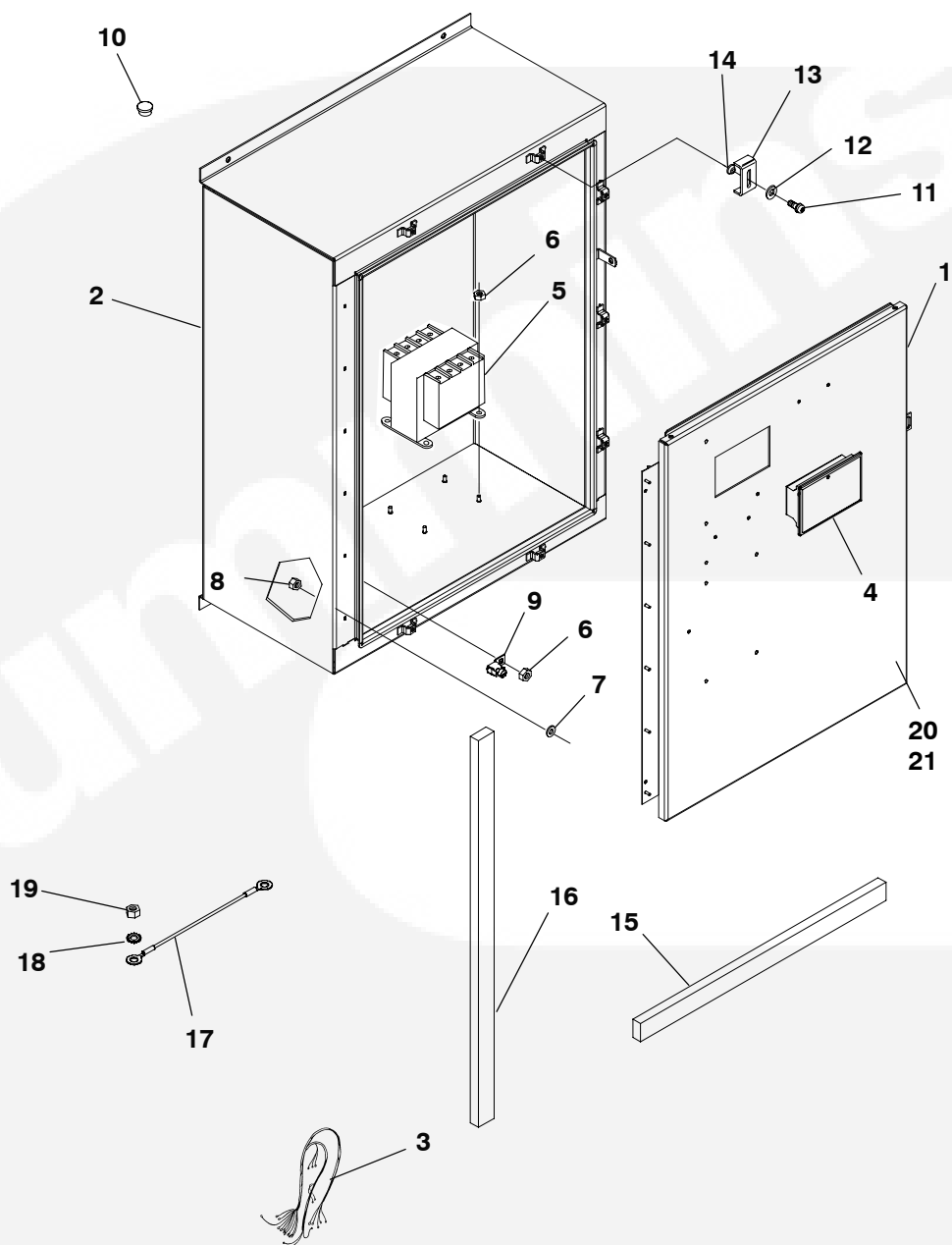
Cabinet Type 3R and 12



Cabinet Type 3R and 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5437-02	1	Door, Cabinet – 40/70/125 Amp	8	870-0131	6	Nut, Hex – W/E/T (#10-32)
2			Cabinet	9	332-3647	3	Lug, Solderless (1/4")
	319-3867-03	1	Type 3R – 40/70/125 Amp	10	306-3467	2	Guide, Rod
	319-3867-04	1	Type 12 – 40/70/125 Amp	11	517-0266	4	Plug, Hole
3			Harness, Main – 40/70/125 Amp	12	406-0613	1	Handle, Door (Includes Key)
	338-4434	1	All Except 600 VAC	13	406-0649	1	Key, Replacement
	338-4473	1	600 VAC	14	306-3525	1	Latch, Cam (3 Point)
4	300-5889	1	Display, Control (Includes Gasket and Clips)	15	306-3526-01	2	Rod, Roller – 40/70/125 Amp
	234-1032	1	Gasket, Cover	16	895-0293-03	2	Gasket, Door – 40/70/125 Amp
	518-0731	2	Clip, Retaining	17	895-0293-04	2	Gasket, Door – 40/70/125 Amp
5	315-0661	1	Transformer, Power (600 VAC Only)	18	226-4916-01		Lead
6	870-0212	7	Nut, Self-Locking (1/4-20)	19	853-2005	2	Washer – W/ET (M5)
7	508-0233	6	Washer, Rubber	20	860-2006	6	Nut, Hex (M5)
				21	406-1146	2	Fastener, Panel
				22	406-1147	2	Fastener, Panel

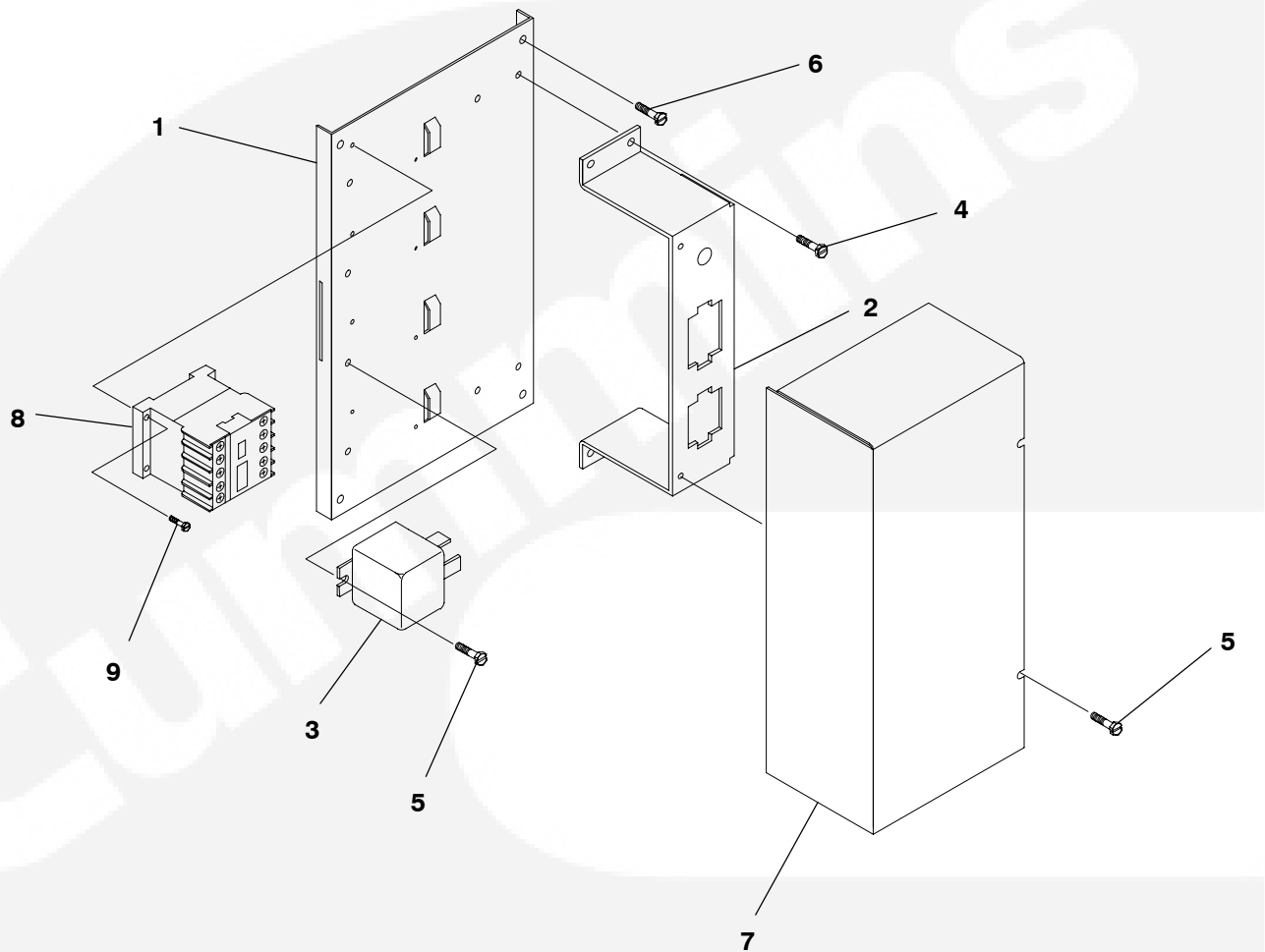
Cabinet Type 4



Cabinet Type 4

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5442-02	1	Door, Cabinet – 40/70/125 Amp	9	332-3647	3	Lug, Solderless (1/4")
2	319-3870-02	1	Cabinet – 40/70/125 Amp	10	517-0266	4	Plug, Hole
3			Harness, Main – 40/70/125 Amp	11	812-0177	7	Screw, Round Head (5/16-18 x .75)
	338-4434	1	All Except 600 VAC	12	526-0022	7	Washer, Flat (5/16)
	338-4473	1	600 VAC	13	301-6727	7	Bracket, Door
4	300-5889	1	Display, Control (Includes Gasket and Clips)	14	406-0519	7	Spring, Conical
	234-1032	1	Gasket, Display	15	895-0293-03	2	Gasket, Door – 40/70/125
	518-0731	2	Clip, Display	16	895-0293-04	2	Gasket, Door – 40/70/125
5	315-0661	1	Transformer, Power (600 VAC Only)	17	226-4916-01		Lead
6	870-0212	7	Nut, Self-Locking (1/4-20)	18	853-2005	2	Washer – W/ET (M5)
7	508-0233	6	Washer, Rubber	19	860-2006	6	Nut, Hex (M5)
8	870-0131	6	Nut, Hex – W/E/T (#10-32)	20	405-1146	2	Fastener, Panel
				21	405-1147	2	Washer, Retainer

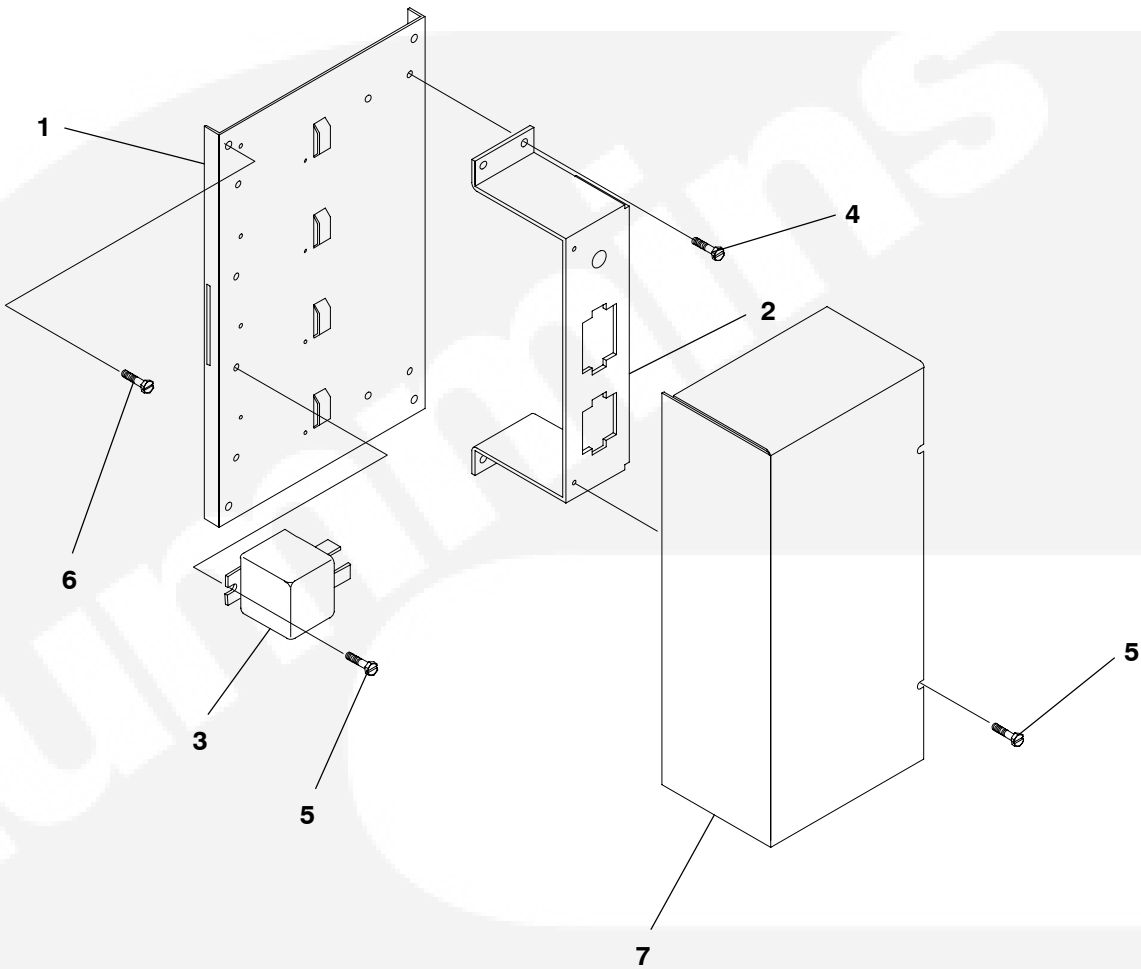
Accessory Control Plate 600 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3940-02	1	Plate, Relay
2	319-3941-02	1	Bracket, Connector
3			Relay - 3PDT
	307-2929	1	12VDC
	307-3054	1	24VDC
4	815-0955-03	4	Screw, Phillips/Hex Head - GND (M4 x 10)
5	815-0792-02	3	Screw, Pan Head - Crossed Recessed (M4 x 8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	815-0960-03	4	Screw, Pan Head - Crossed Recessed (M4 x 10)
7	319-3942-02	1	Cover, Relay Plate
8			Relay, Control
	307-2931	2	12VDC
	307-3055	2	24VDC
9	815-0958-04	4	Screw, Pan Head - Cross Recessed (M3 x 12)

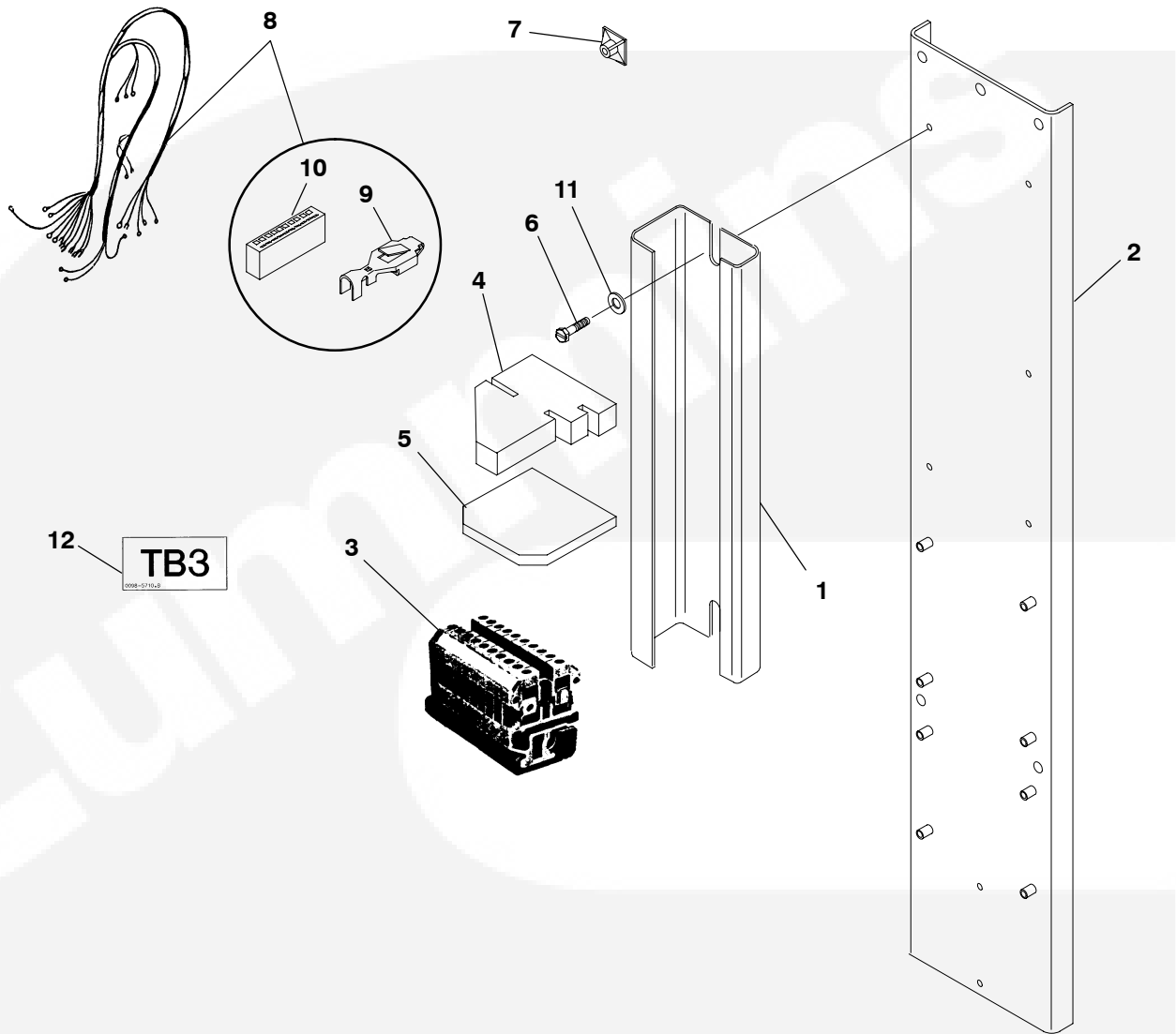
Accessory Control Plate
Less than 600 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3940-02	1	Plate, Relay
2	319-3941-02	1	Bracket, Connector
3	307-2929	3	Relay - 3PDT 12VDC
	307-3054	3	24VDC
4	815-0955-03	4	Screw, Phillips/Hex Head - GND (M4 x 10)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	815-0792-02	5	Screw, Pan Head - Crossed Recessed (M4 x 8)
6	815-0960-03	4	Screw, Pan Head - Crossed Recessed (M4 x 10)
7	319-3942-02	1	Cover, Relay Plate

Battery Charger Alarm

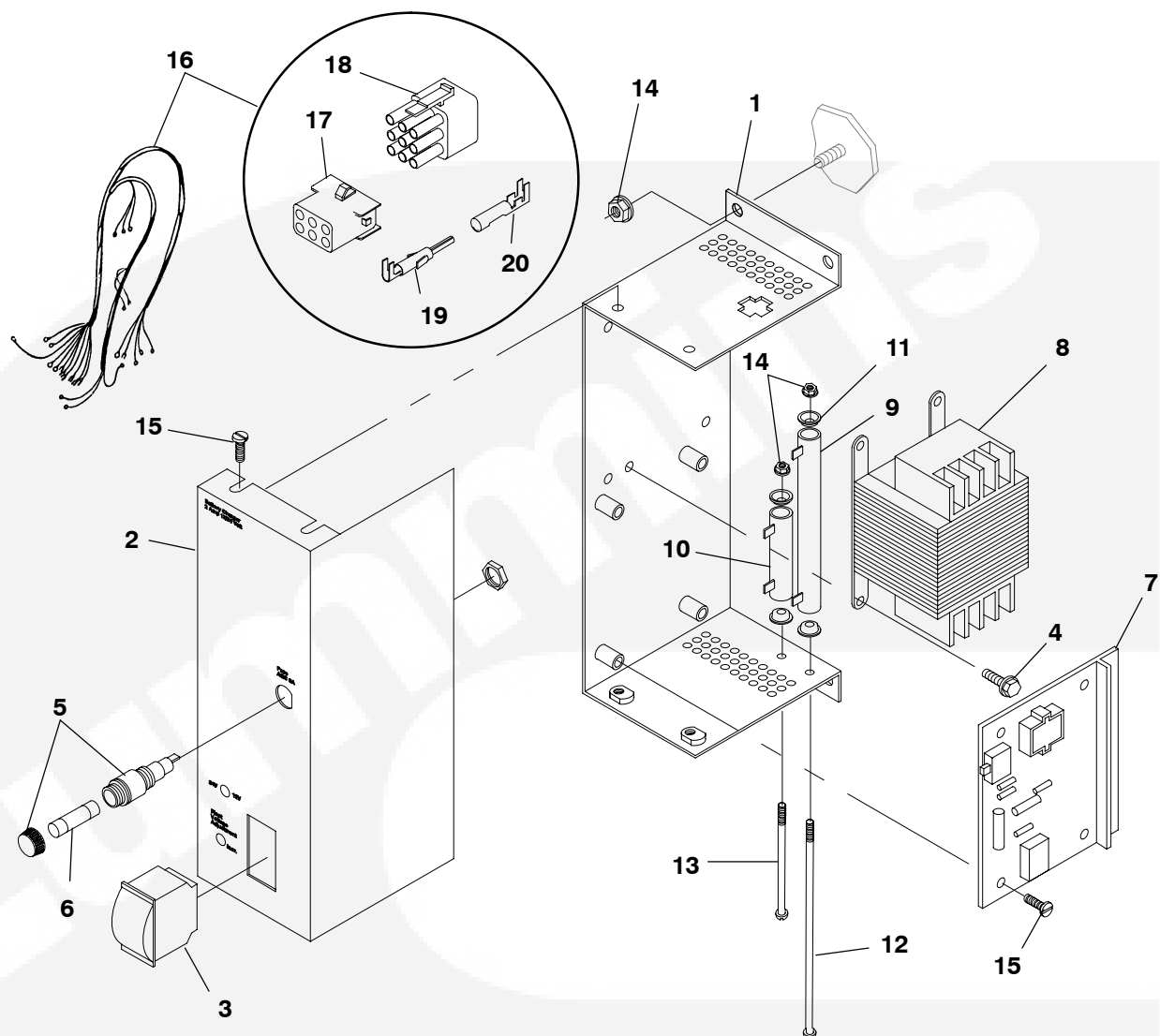


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
7	332-2420	A/R	Mount,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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	323-1302	9	* Pin, Contact (J2)
10	323-1374-10	1	* Housing, Connector (10 Pin) (J2)
11	526-0003	2	Washer, Flat
12	098-5710	1	Label, Terminal Block

* - Parts Included in 338-2350 Wiring Harness

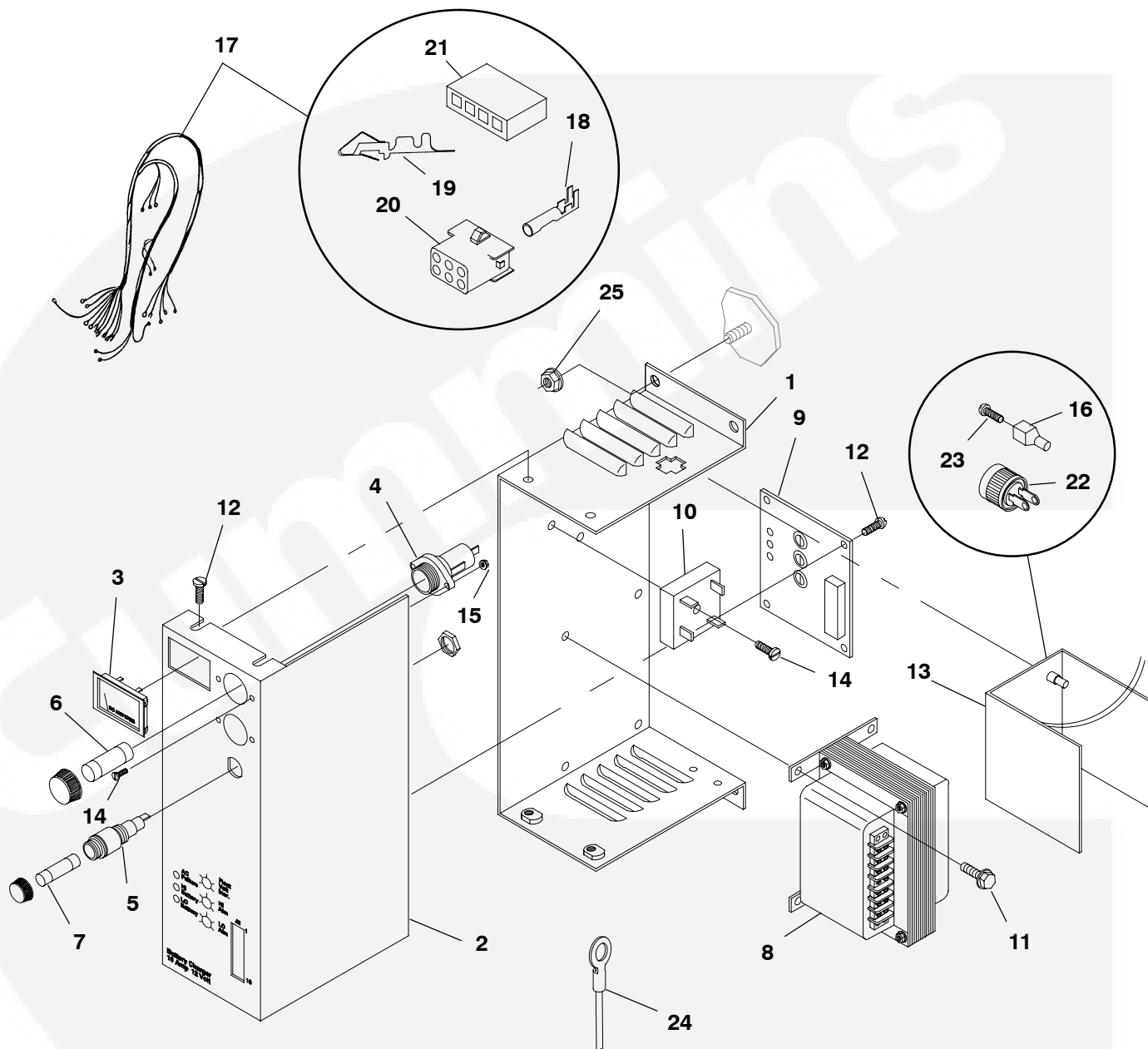
Battery Charger 2 Amp, 12/24 Volt



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	6	Nut, Hex – W/ET (#10-32)
3	302-0807	1	Ammeter, DC	15	815-0845	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				
	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)				

* – Parts Included in 338-2149 Wiring Harness

Battery Charger **10 Amp, 12 Volt**



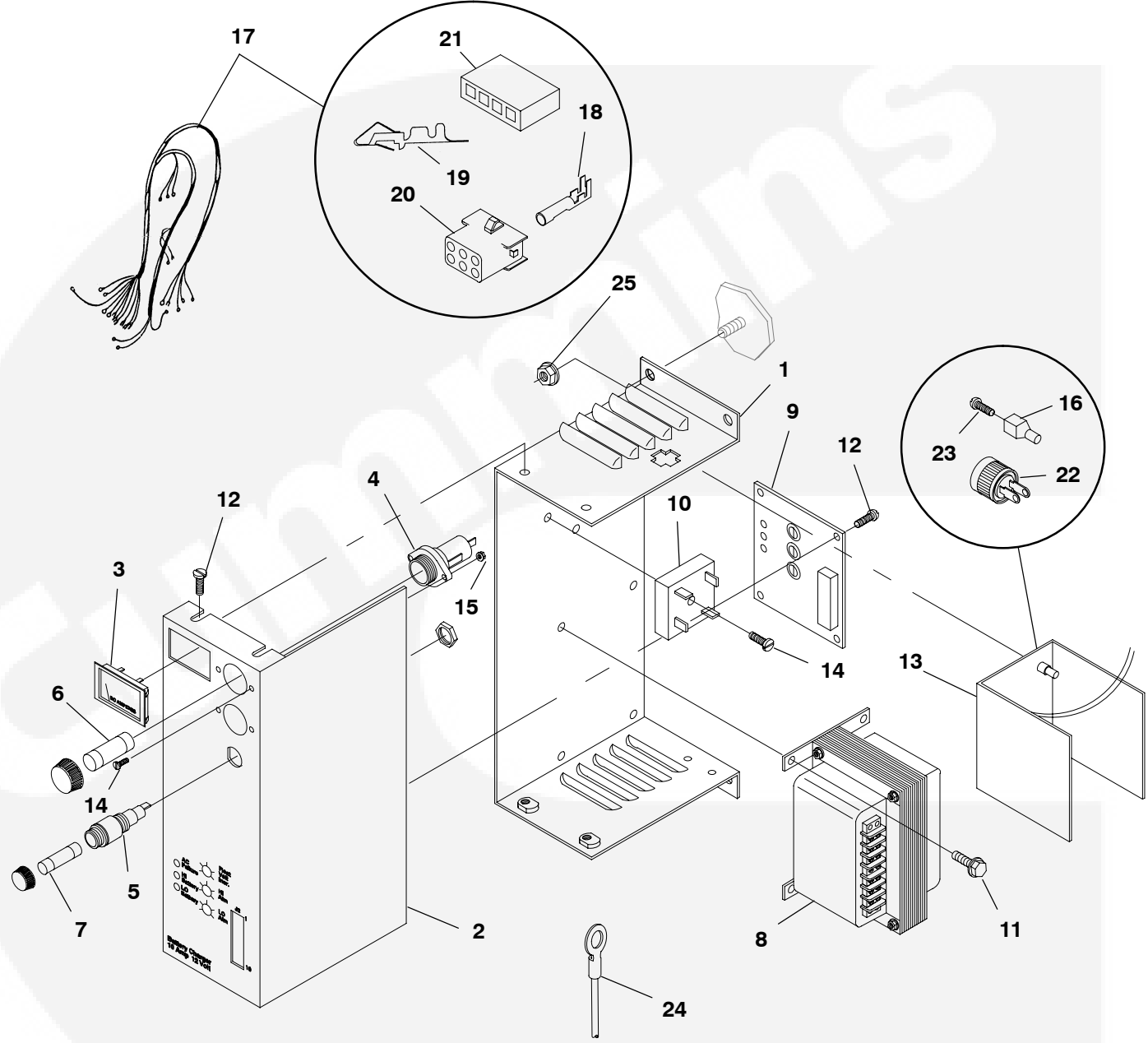
Battery Charger 10 Amp, 12 Volt

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	PCB, Charger – Battery
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	815-0845	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
5	321-0104	1	Holder, Fuse (DC Output)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
6			Fuse	14	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
			50 Hertz	15	870-0221	5	Nut, Hex – W/ET (#8-32)
	321-0304-01	2	416/440 Volt	16	870-0263	4	*Nut, Insulated (#8)
	321-0304-02	2	380 Volt	17	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
	321-0304-03	2	240 Volt	18	323-1200	A/R	#Socket, Terminal
	321-0304-04	2	220 Volt	19	323-1302	A/R	#Pin, Terminal
			60 Hertz	20	323-1318	1	#Cap, 6 pin
	321-0304-01	2	480 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	208 Volt	24	226-3554-02	1	Lead (Quantity Used as Required)
	321-0304-05	2	120 Volt	25	870-0131	4	Nut, Hex – W/ET (#10-32)
	321-0303-02	2	600 Volt				
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 338-2223 Wiring Harness

* – Parts Included in 305-0781 Rectifier Assembly

Battery Charger
10 Amp, 24 Volt



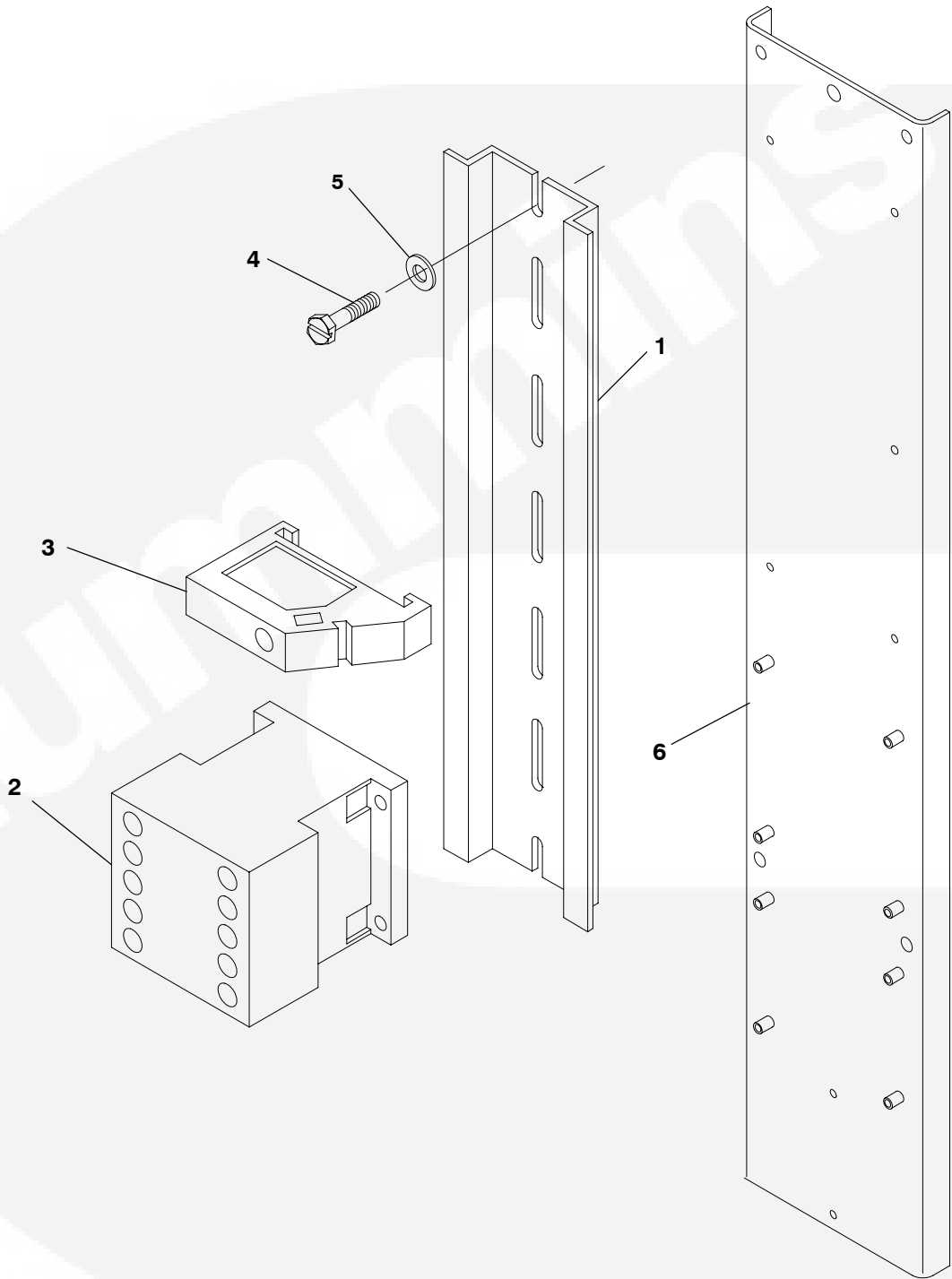
Battery Charger 10 Amp, 24 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery	9	300-3244	1	PCB, Charger – Battery
2	319-0073	1	Cover, Charger – Battery (Includes Silkscreen)	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	815-0845	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
5	321-0104	1	Holder, Fuse (DC Output)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
6			Fuse	14	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
			50 Hertz	15	870-0221	5	Nut, Hex – W/ET (#8-32)
	321-0304-04	2	380/416/440 Volt	16	870-0263	4	*Nut, Insulated (#8)
	321-0304-05	2	240 Volt	17	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
	321-0304-06	2	220 Volt	18	323-1200	A/R	#Socket, Terminal
			60 Hertz	19	323-1302	A/R	#Pin, Terminal
	321-0303-02	2	600 Volt	20	323-1318	1	#Cap, 6 pin
	321-0304-03	2	480 Volt	21	323-1374-05	1	#Plug, 5 pin
	321-0304-04	2	380 Volt	22	364-0003	1	*Rectifier, Gate (SCR)
	321-0304-05	2	240 Volt	23	809-0035	4	*Screw, Sheet Metal – Round Head (#8 x 3/4)
	321-0304-06	2	120/208 Volt	24	226-3554-02	1	Lead (Quantity Used as Required)
7	321-0127	1	Fuse (15 Amp)	25	870-0131	4	Nut, Hex – W/ET (#10-32)
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				

– Parts Included in 338-2223 Wiring Harness

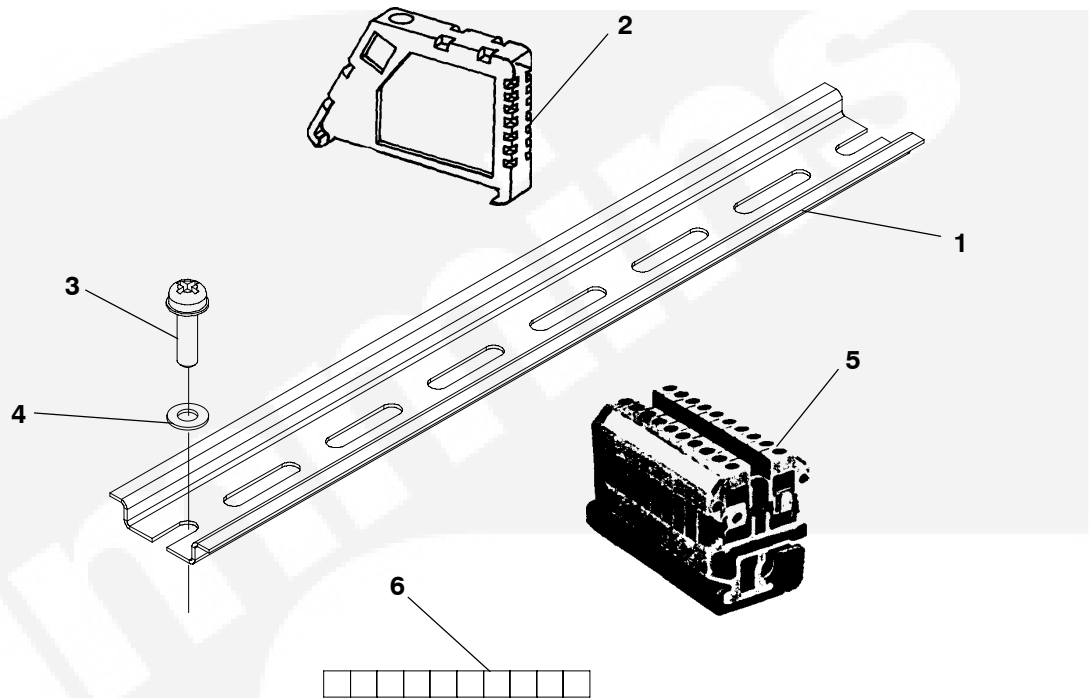
* – Parts Included in 305-0781 Rectifier Assembly

Elevator Signal and Auxiliary Relay



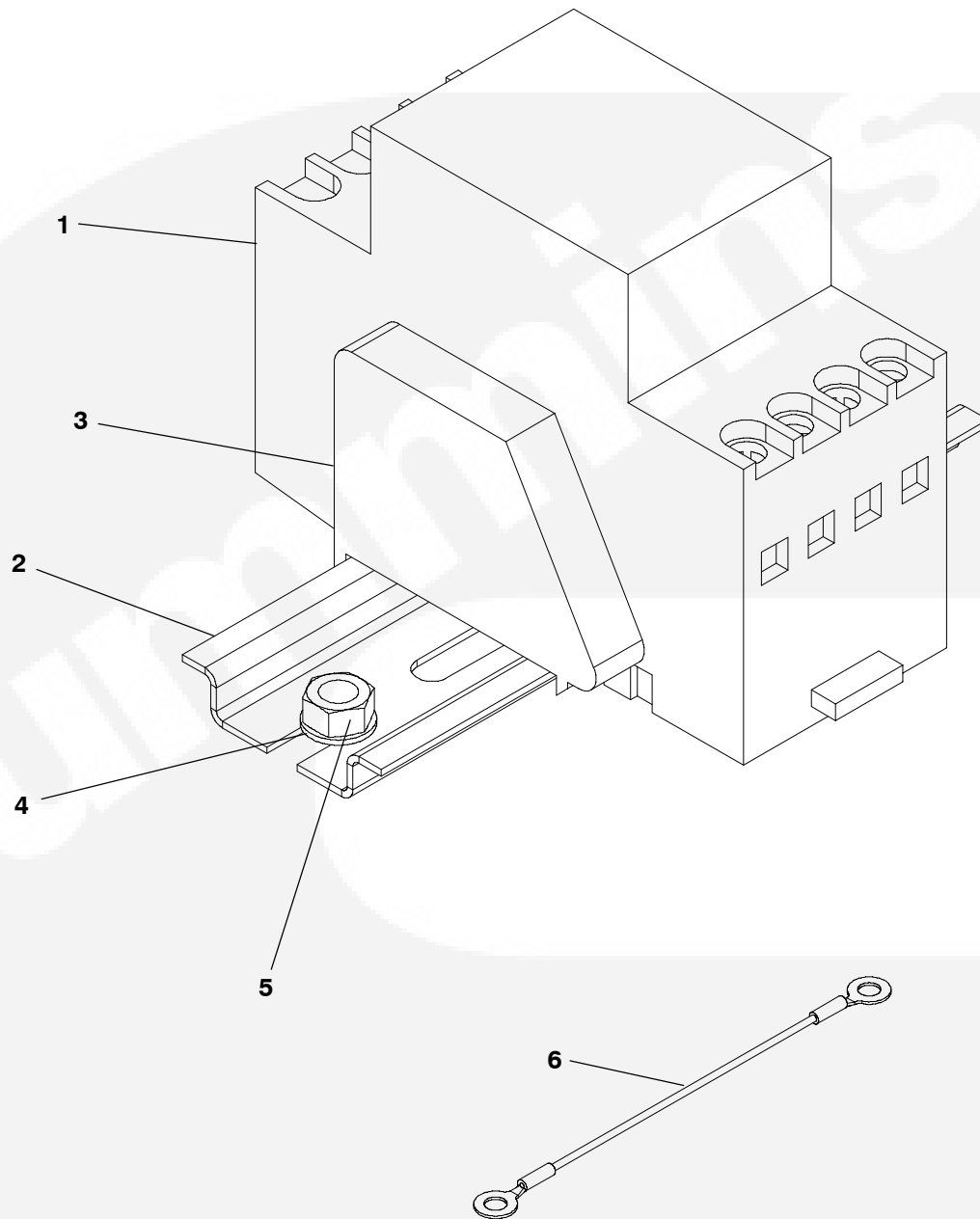
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-04	1	Rail, Terminal	4	815-0955-03	2	Screw, Phillips/Hex Head –
2			Relay, Control				GND (M4 x 10)
	307-2873	1	12 VDC	5	526-0003	2	Washer, Flat
	307-2874	1	24 VDC	6	319-3943-01	1	Plate, Mounting
3	332-2878	2	Bracket, End				

Terminal Block



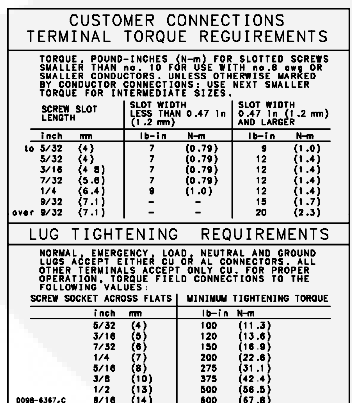
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-04	1	Rail, Terminal Block	5	332-2836-02	3	Block, Terminal – Sectional
2	332-2878	2	Bracket, End – Terminal	6			Tag, Terminal
3	815-0955-03	2	Screw, Cap – Hex Head – Phillips (M4 x 10)		332-2842-11	1	1-10
4	526-0003	2	Washer, Flat		332-2842-12	1	11-20
					332-2842-13	1	21-30

Exercise Clock



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-3053	1	Clock, Exercise
2	332-2879-07	1	Rail, Terminal
3	332-2878	2	Bracket, End - Terminal
4	526-0003	2	Washer, Flat (3/16)
5	862-0026-53	2	Nut, Hex (M5)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Lead
	226-4925-02	1	"L"
	226-4925-03	1	"N/O"
	226-4925-04	1	"C"
	226-4925-05	1	"N"

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870-0320, **7**

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