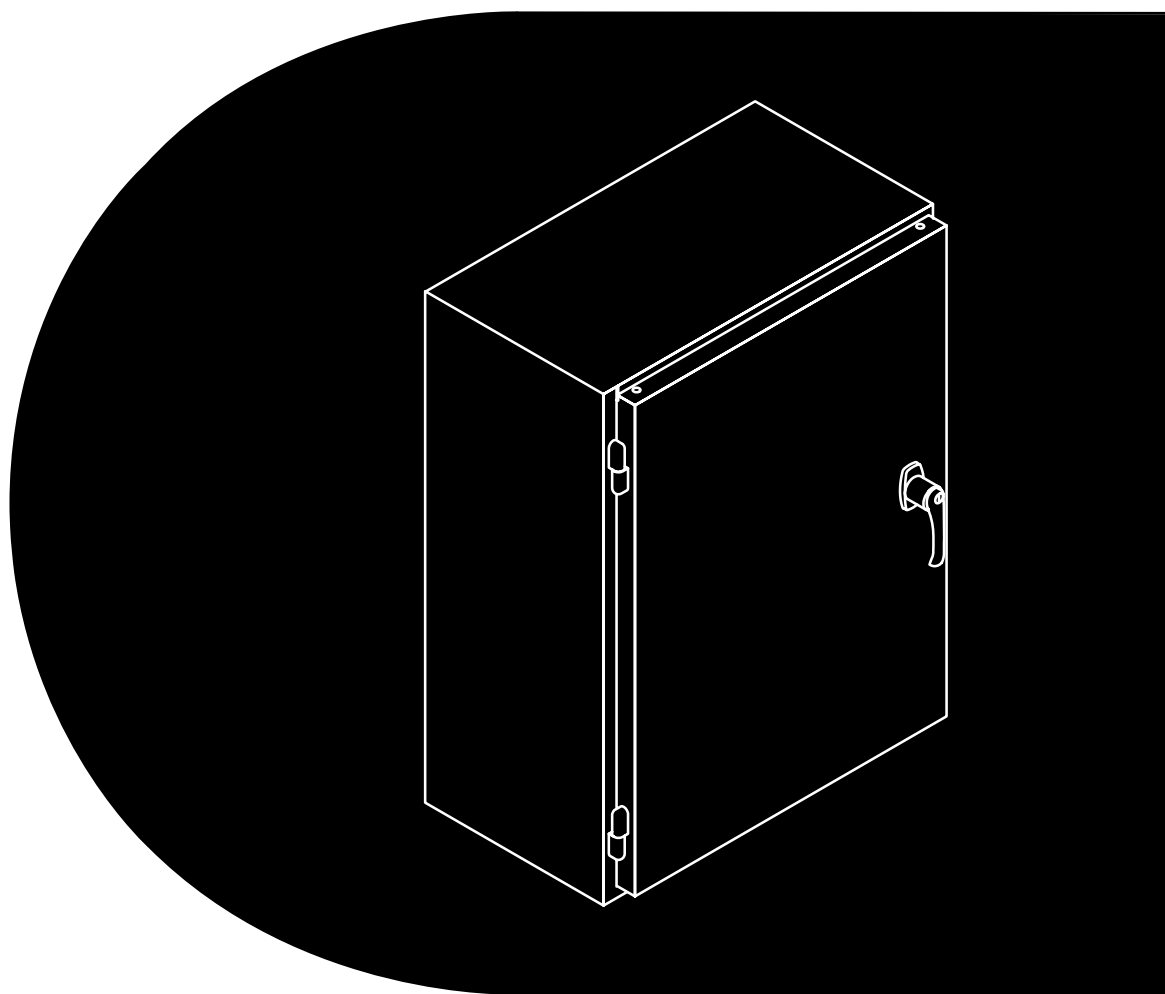


Parts Catalog

Transfer Switch Model

OTEC

150/225/260 Amp



Printed in U.S.A.

962-0241 (Spec A) 6-2004

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!

PSP-1

Introduction

This catalog applies to the Cummins Power Generation OTEC 150/225/260 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	L201	Auxiliary Relay – 12 VDC Coil
A029	4-Pole Switch	L202	Auxiliary Relay – Emergency Position – 12 VDC
A041	One Phase – 2 or 3 wire	L203	Auxiliary Relay – Normal Position – 12 VDC
A042	Three Phase – 3 or 4 wire	M003	Terminal Block – 30 Points
A044	Frequency – 60 Hz	M032	Relay – Elevator Signal
A045	Frequency – 50 Hz	M033	Genset Starting Battery – 12V DC
A046	Listing – UL	M034	Genset Starting Battery – 24V DC
B001	Cabinet – Type 1	N002	Terminal Block – Battery Charger Alarm
B002	Cabinet – Type 3R	R020	Voltage – 120
B003	Cabinet – Type 4	R021	Voltage – 208
B010	Cabinet – Type 12	R023	Voltage – 240
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	S049	Current Rating – 150 Amps
L102	Auxiliary Relay – Emergency Position – 24 VDC	S050	Current Rating – 225 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC	S051	Current Rating – 260 Amps

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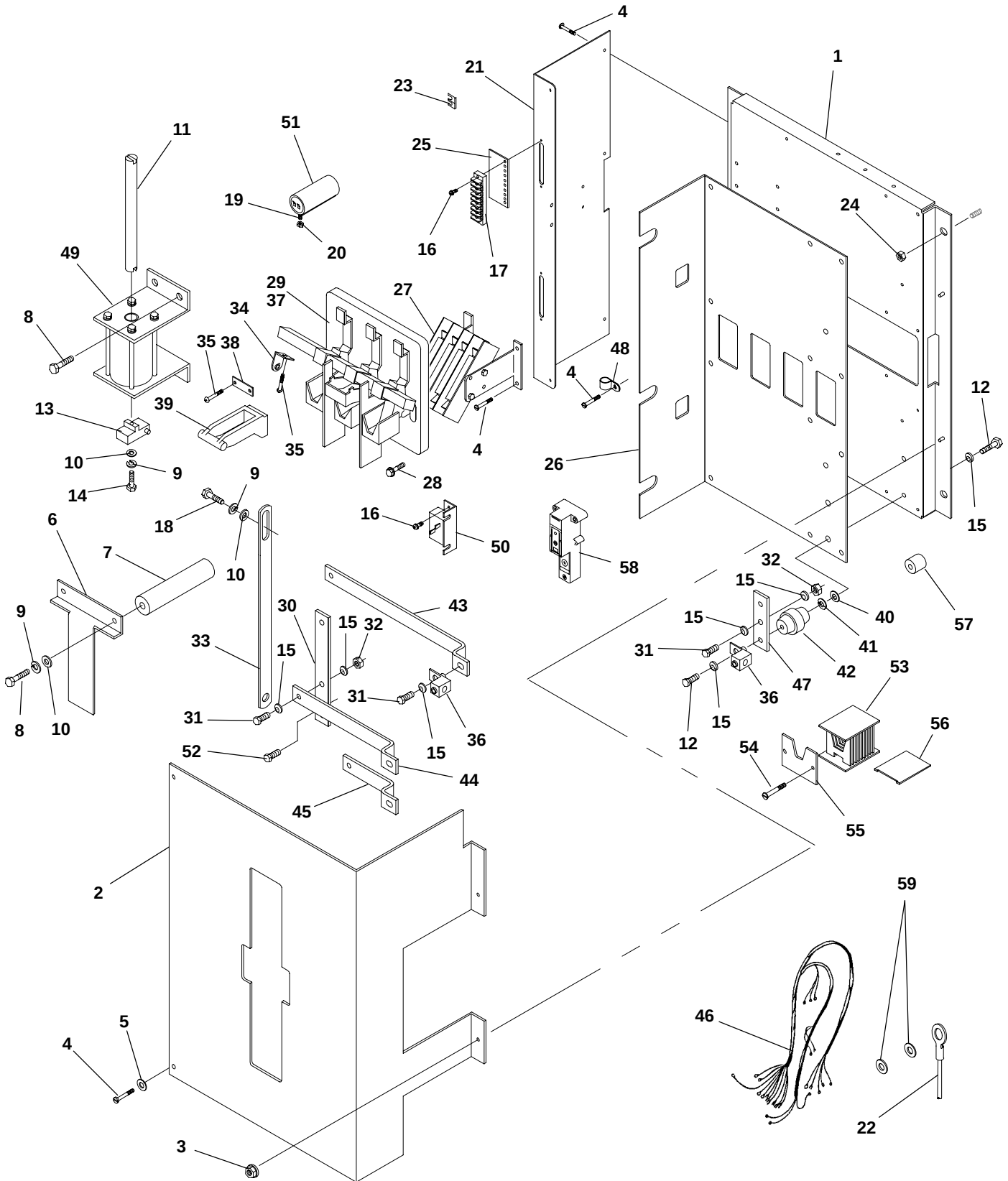
Abbreviations

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

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

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Transfer Switch



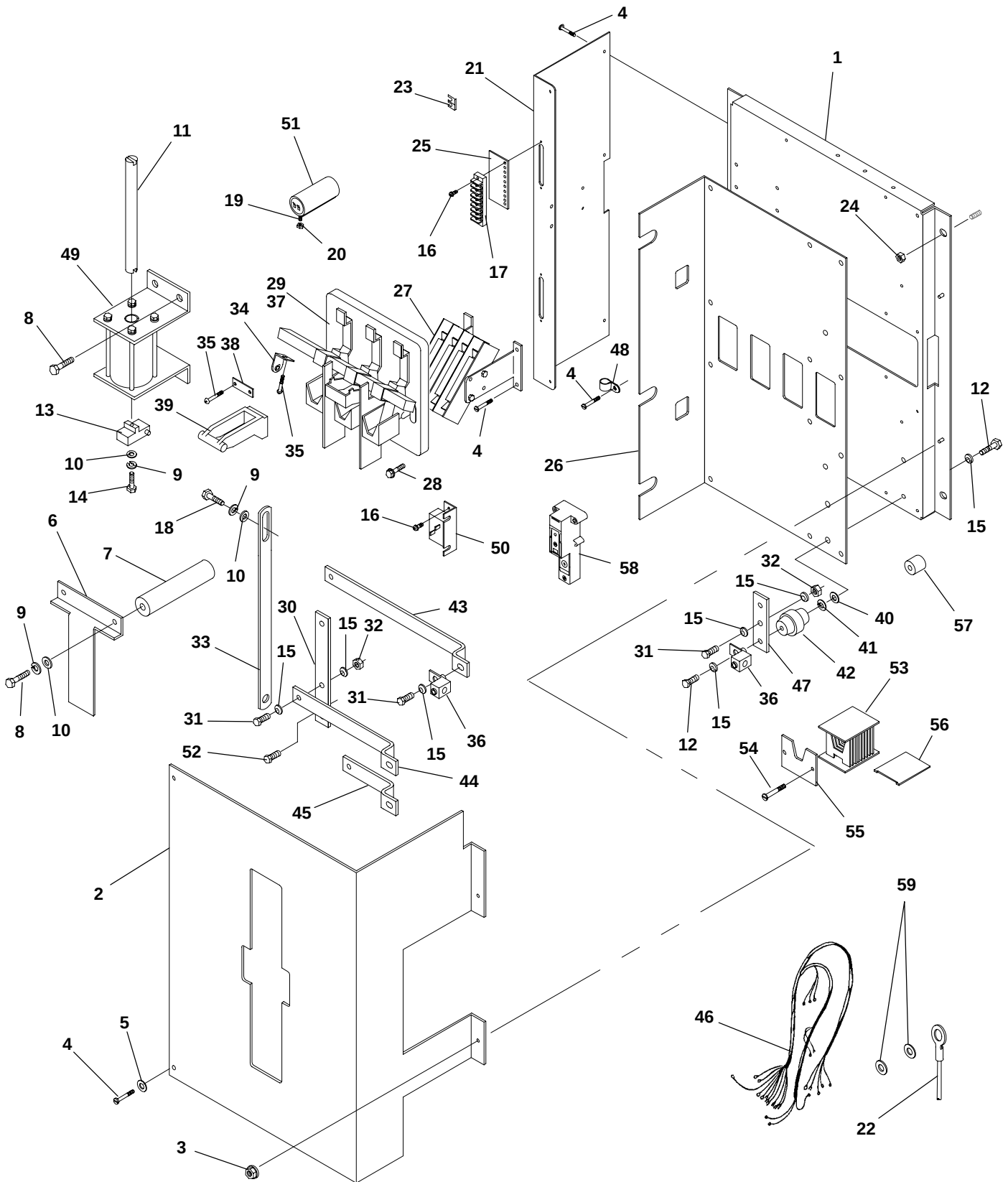
Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Transfer Switch Assembly	1	306-3574	1	Base, Mounting
			3-Pole, Front Connect with	2	306-4269	1	Cover, Labeled
			Mechanical Lugs	3	870-0320	2	Nut, Self-Locking (#10-32)
			150 Amp	4	815-0652	14	Screw, Hex Head – Slotted – W/IT (#10-32 x .50)
306-4404-01	1		120 VAC				
306-4404-02	1		190 VAC	5	526-0008	3	Washer, Flat (#10)
306-4404-03	1		208/220/240/600* VAC	6	306-2340	2	Barrier
306-4404-04	1		380/416 VAC	7	306-3483	4	Spacer, Actuator
306-4404-05	1		440/480 VAC	8	800-0021	4	Screw, Cap – Hex Head (1/4-20 x 4.50)
			225 Amp				
306-4404-06	1		120 VAC	9	850-0040	8	Washer, Lock (1/4)
306-4404-07	1		190 VAC	10	526-0018	8	Washer, Flat (1/4)
306-4404-08	1		208/220/240/600* VAC	11	306-3473	1	Rod, Actuator
306-4404-09	1		380/416 VAC	12			Screw, Cap – Hex Head (5/16-18 x .88)
306-4404-10	1		440/480 VAC		800-0027	18	3-Pole
			260 Amp		800-0027	16	4-Pole
306-4404-11	1		120 VAC	13	306-3400-02	2	Rod-End, Actuator
306-4404-12	1		190 VAC	14	800-0008	2	Screw, Cap – Hex Head (1/4-20 x 1.25)
306-4404-13	1		208/220/240/600* VAC				Washer, Spring – Conical (5/16)
306-4404-14	1		380/416 VAC		851-0028	24	3-Pole
306-4404-15	1		440/480 VAC		851-0028	23	4-Pole
			4-Pole, Front Connect with	16	815-0651	6	Screw, Round Head – Cross Recessed (#6-32 x .75)
			Mechanical Lugs				Block, Terminal
			150 Amp	17	332-2832	2	Screw, Hex Head (1/4-20 x .50)
306-4405-02	1		190 VAC	18	800-0003	2	Screw, Flat Head – Cross Recessed (#10-32 x .50)
306-4405-03	1		208/220/240/600* VAC				Nut, Hex – W/ET (#10-32)
306-4405-04	1		380/416 VAC	19	815-0029	A/R	Bracket, Terminal
306-4405-05	1		440/480 VAC	20	870-0131	A/R	Lead (380/416/440/480 VAC)
			225 Amp	21	306-3418	1	Jumper, Terminal
306-4405-07	1		190 VAC	22	226-3380	1	Nut, Lock (3/8-16)
306-4405-08	1		208/220/240/600* VAC	23	332-2605	1	
306-4405-09	1		380/416 VAC	24	870-0281	4	
306-4405-10	1		440/480 VAC				
			260 Amp				
306-4405-12	1		190 VAC				
306-4405-13	1		208/220/240/600* VAC				
306-4405-14	1		380/416 VAC				
306-4405-15	1		440/480 VAC				

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

Continued...

Transfer Switch

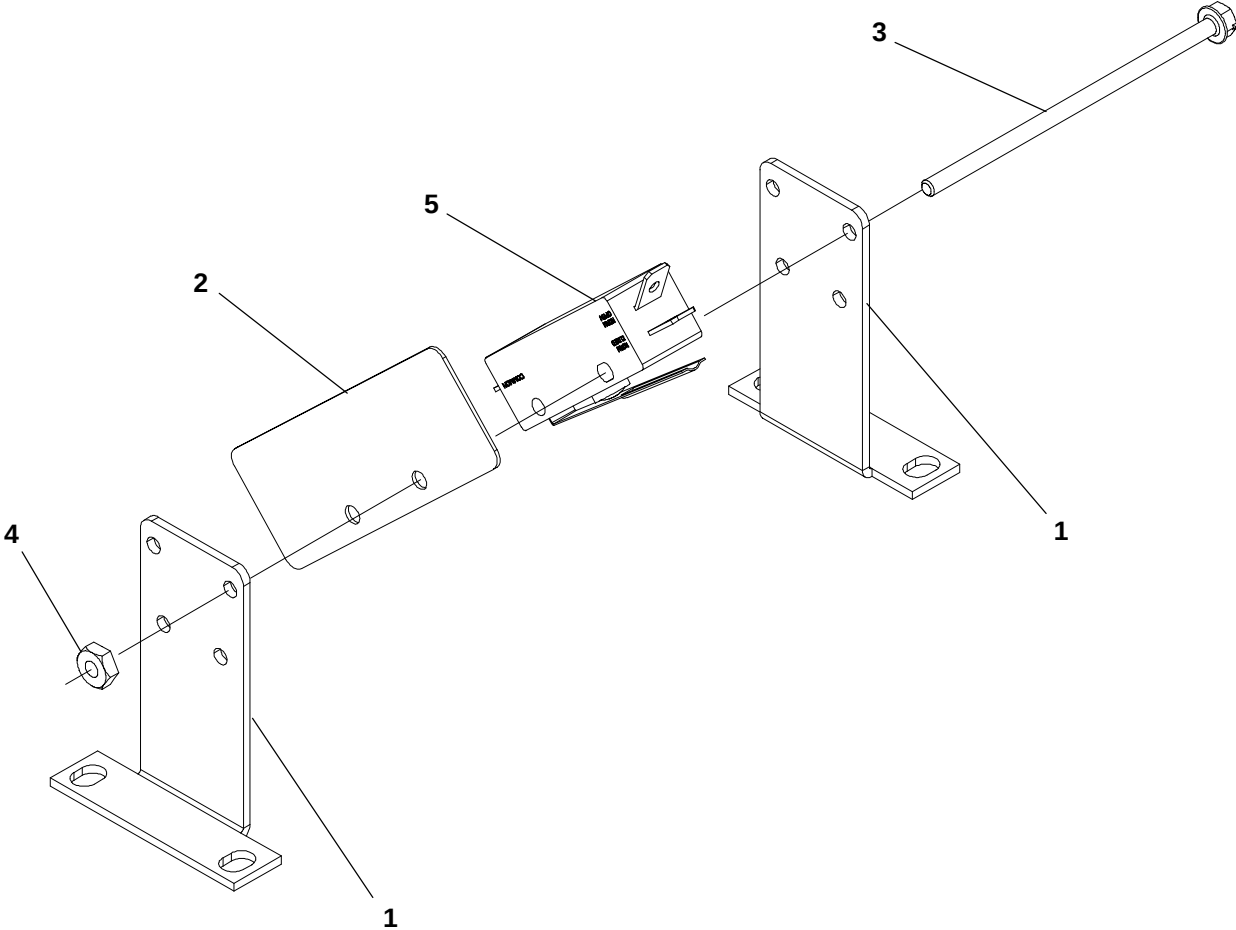


Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
25	332-2903	2	Strip, Marker	49			Actuator, Linear
26	306-3575	1	Barrier, Base		306-3471-01	1	120 VAC
27			Switch Assembly, Auxiliary (See Separate Page For Components)		306-3471-02	1	190 VAC
	306-4748	1	Normal		306-3471-03	1	208/220/240/600* VAC
	306-4749	1	Emergency		306-3471-05	1	380/416 VAC
28			Screw, Self-Locking – Hex Head – Thread Forming – W/IT (1/4–20 x 1.25)		306-3471-06	1	440/480 VAC
	815-0667	6	3-Pole	50	320-0609	1	Breaker, Circuit
	815-0667	1	4-Pole		320-0608	1	120 VAC
29			Block and Cross Bar Assembly – Emergency		320-0606	1	190/208/220/240/600* VAC
	306-4079-02	1	3-Pole				380/416/440/480 VAC
	306-4080-02	1	4-Pole	51	312-0209	1	Capacitor
30			Strap, Jumper		312-0204	1	120 VAC
	337-2365	3	3-Pole		312-0203	2	190/208/220/240/600* VAC
	337-2365	4	4-Pole		800-0028	1	380/416/440/480 VAC
31			Screw, Cap – Hex Head (5/16 x 1.25)	52	800-0028	1	Screw, Cap – Hex Head (5/16–18 x 1.00) 4-Pole
	800-0030	4	3-Pole	53	306-0268	2	Chute, Arc – 4-Pole
	800-0030	3	4-Pole	54	815-0527	4	Screw, Pan Head – Thread Cutting (#10–32 x .50) – 4-Pole
32			Nut, Hex (5/16–18)	55	306-3576	2	Cover, Arc Chute – 4-Pole
	862-0015	1	3-Pole	56	306-2352	2	Insulator, Arc Chute – 4-Pole
	862-0015	2	4-Pole	57	306-3627	2	Spacer, Mounting Block – 4-Pole
33	306-3482	1	Bar, Interlock	58	306-3578	2	Block and Contact Assembly – 4-Pole
34	306-0508	2	Arm, Interlock	59	526-0020	2	Washer, Bolt (3/8)
35	815-0446	8	Screw, Cross-Recessed – Round Head – W/IT (#8–32 x .50)		306-3573	1	Block, Lug Mounting – (Not Illustrated)
36			Lug, Solderless				Screw, Machine – Round Head (1/4–20 x 2.75) (Not Illustrated)
	332-3038	12	150/225 Amp		815-0656	2	3-Pole
	332-3039	12	260 Amp		815-0656	6	4-Pole
37			Block and Cross Bar Assembly – Normal		815-0261	2	Screw, Thread Forming (1/4–20 x .50) – 3-Pole (Not Illustrated)
	306-4079-01	1	3-Pole		815-0290	4	Screw, Thread Forming (1/4–20 x .62) – 4-Pole (Not Illustrated)
	306-4080-01	1	4-Pole		821-0016	1	Screw, Washer Head (5/16–18 x .75) – 4-Pole (Not Illustrated)
38	306-1396	2	Plate, Handle Mounting				
39	306-1842	2	Handle, Actuator (See Separate Page For Components)				
40	526-0077	2	Washer, Flat (5/16) – 3-Pole				
41	853-0016	2	Washer, Lock – W/ET (5/16) – 3-Pole				
42	332-2744-05	2	Standoff, Insulator – 3-Pole				
43	337-2410-01	1	Strap, Load				
44	337-2410-02	1	Strap, Load				
45	337-2410-03	1	Strap, Load				
46	338-3792	1	Harness, Wiring				
47	337-2366	1	Bar, Neutral – 3-Pole				
48	332-2542	1	Clamp, Cable				

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

Auxiliary Switch Assembly

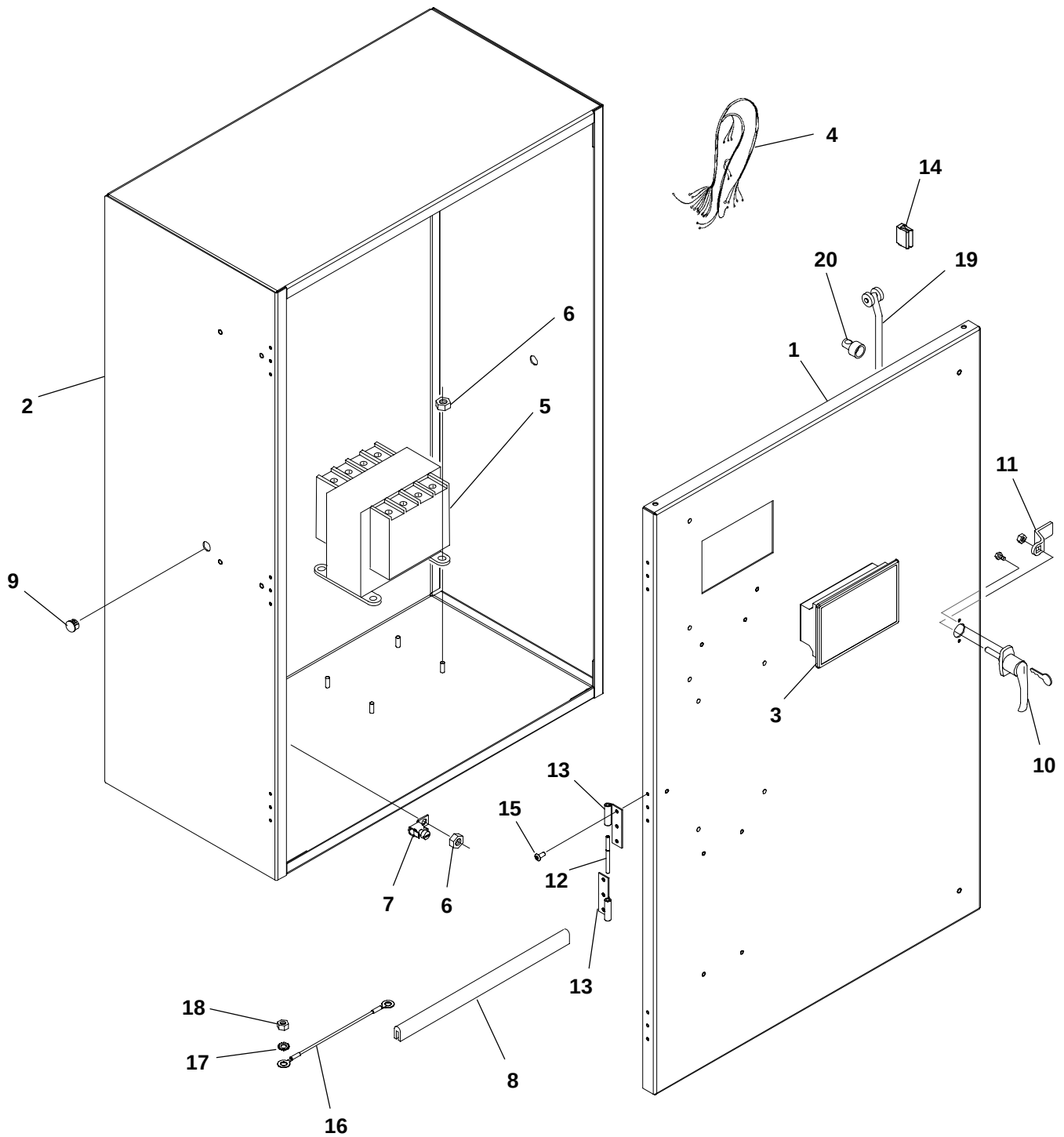


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4748	1	Switch Assembly, Auxiliary
	306-4749	1	Normal
1	306-3420	2	Emergency
2	306-3391	5	Bracket, Switch – Auxiliary
			Barrier, Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	815-0686	2	Screw, Cap – Hex Head (#6-32 x 3-1/4)
4	870-0201	2	Nut, Lock (#6-32)
5	308-1166	4	Switch, Lever – Snap Action

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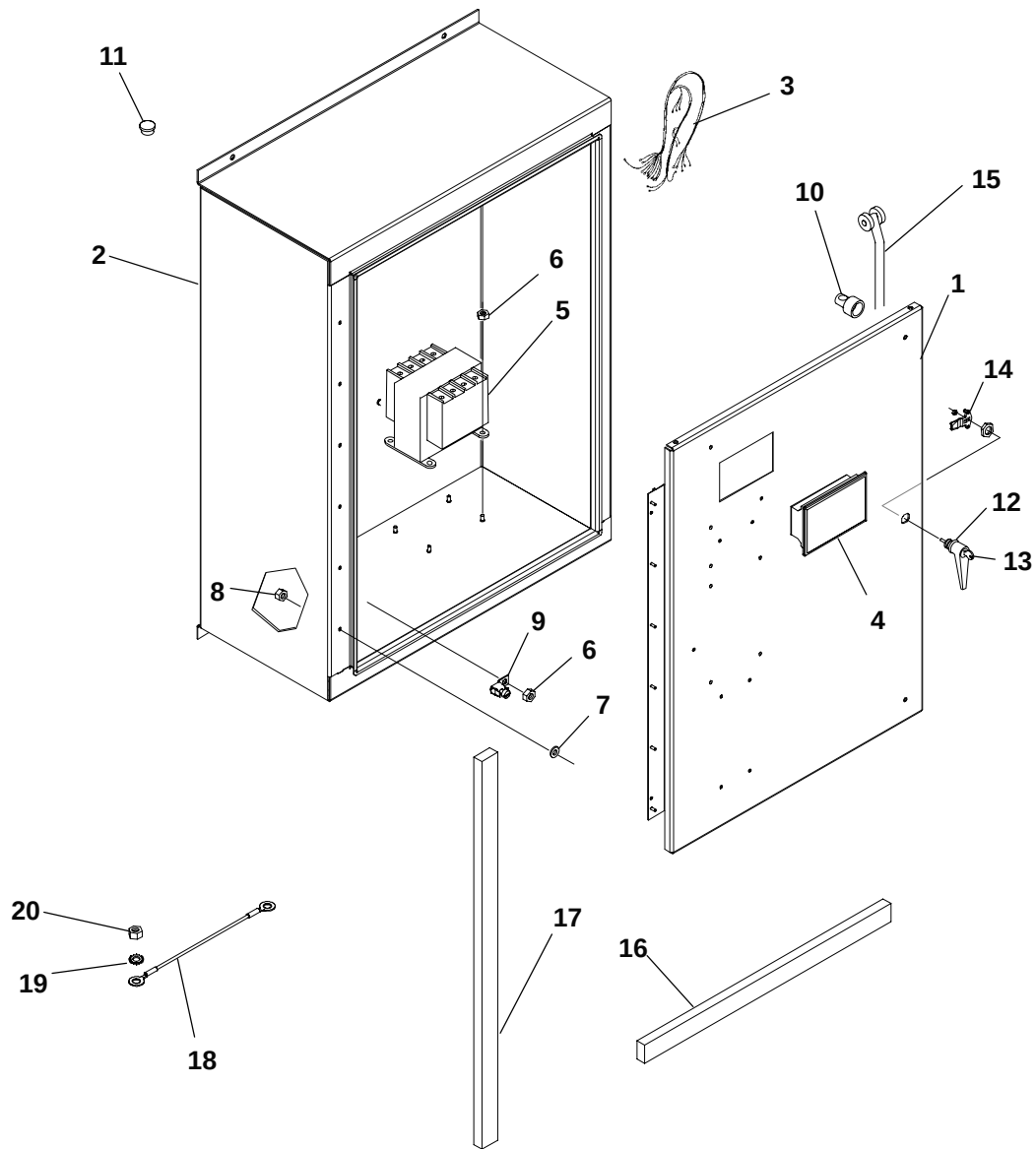
Cabinet Type 1



Cabinet Type 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Cabinet	6	870-0212	A/R	Nut, Self-Locking (1/4-20)
	319-5400-02	1	150/225 Amp	7	332-3647	3	Lug, Solderless (1/4")
	319-5401-02	1	260 Amp	8	508-1045	2	Edge, Protection
2			Cabinet	9	517-0135	6	Plug, Hole
	319-3864-02	1	150/225 Amp	10	406-0809	1	Handle, Locking (Includes Hardware and 2 Keys)
	319-3874-02	1	260 Amp				Latch, Cam
3	300-5889	1	Display, Control (Includes Gasket and Clip)	11			150/225 Amp - 1 Point
	234-1031	1	Gasket, Cover		406-0933	1	260 Amp - 3 Point
	518-0731	1	Clip, Retaining	12	406-0966	A/R	Pin, Hinge
4			Harness, Main	13	406-0965	A/R	Blade, Lifting Hinge
			150/225 Amp	14	508-1186	A/R	Bumper
	338-4434	1	All Except 600 VAC	15	818-0231-02	12	Rivet, Pop
	338-4473	1	600 VAC	16	226-4916-01	1	Lead
			260 Amp	17	853-2005	2	Washer - W/ET (M5)
	338-4436	1	All Except 600 VAC	18	860-2006	6	Nut, Hex (M5)
	338-4437	1	600 VAC	19	306-3979	2	Rod, Roller (260 Amp)
5	315-0661	1	Transformer, Power (600 VAC Only)	20	306-3467	2	Guide, Rod (260 Amp)

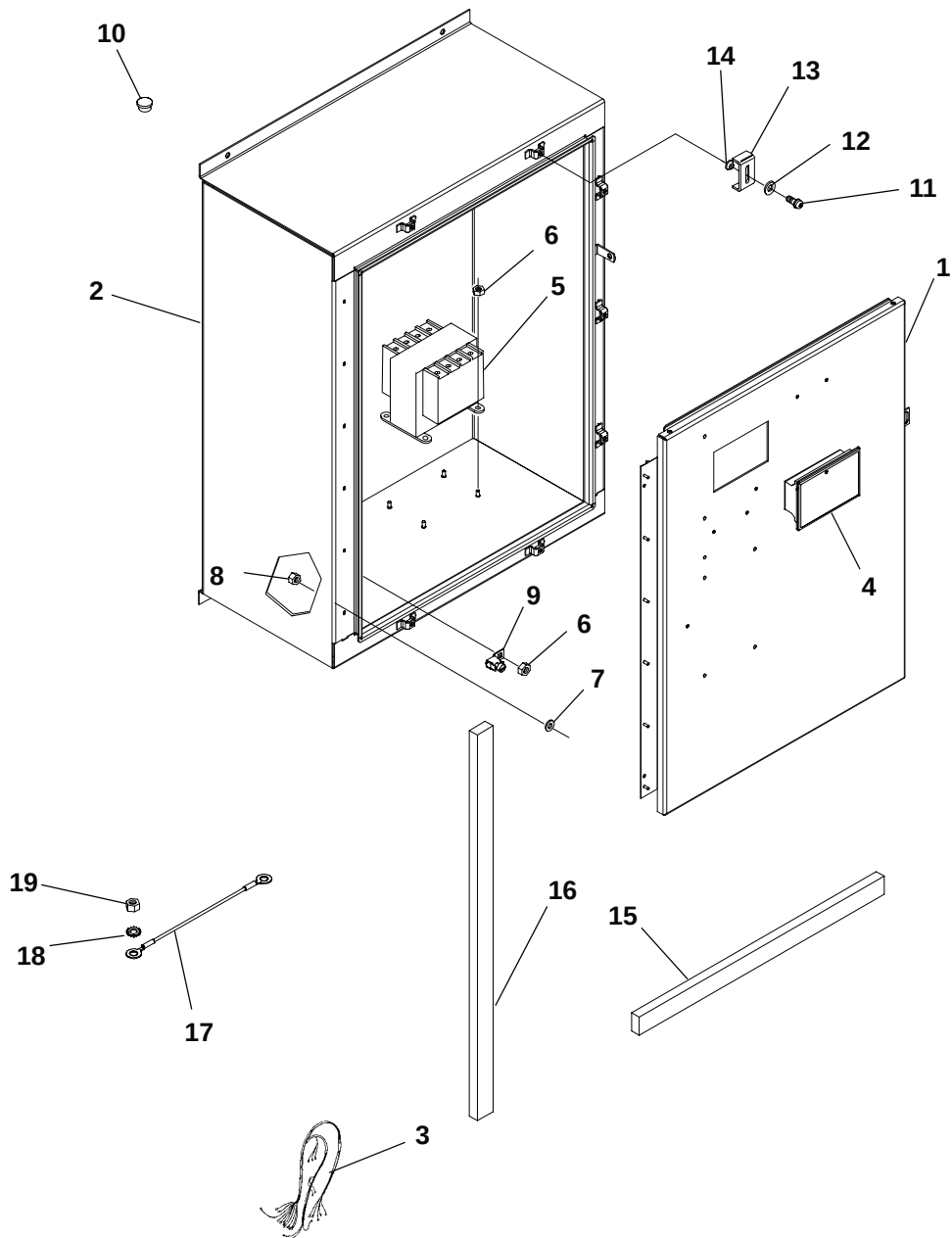
Cabinet Type 3R and 12



Cabinet Type 3R and 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Cabinet	6	870-0212	7	Nut, Self-Locking (1/4-20)
	319-5437-02	1	150/225 Amp	7	508-0233	6	Washer, Rubber
	319-5438-02	1	260 Amp	8	870-0131	6	Nut, Hex - W/E/T (#10-32)
2			Cabinet	9	332-3647	3	Lug, Solderless (1/4")
			Type 3R	10	306-3467	2	Guide, Rod
	319-3867-03	1	150/225 Amp	11	517-0266	4	Plug, Hole
	319-3877-03	1	260 Amp	12	406-0613	1	Handle, Door (Includes Key)
			Type 12	13	406-0649	1	Key, Replacement
	319-3867-04	1	150/225 Amp	14	306-3525	1	Latch, Cam (3 Point)
	319-3877-04	1	260 Amp	15			Rod, Roller
3			Harness, Main		306-3526-01	2	150/225 Amp
			150/225 Amp		306-3526-02	2	260 Amp
	338-4434	1	All Except 600 VAC	16			Gasket, Door
	338-4473	1	600 VAC		895-0293-03	2	150/225 Amp
			260 Amp		895-0293-05	2	260 Amp
	338-4436	1	All Except 600 VAC	17			Gasket, Door
	338-4437	1	600 VAC		895-0293-04	2	150/225 Amp
4	300-5889	1	Display, Control (Includes Gasket and Clip)		895-0293-06	2	260 Amp
	234-1031	1	Gasket, Cover	18	226-4916-01		Lead
	518-0731	1	Clip, Retaining	19	853-2005	2	Washer - W/ET (M5)
5	315-0661	1	Transformer, Power (600 VAC Only)	20	860-2006	6	Nut, Hex (M5)

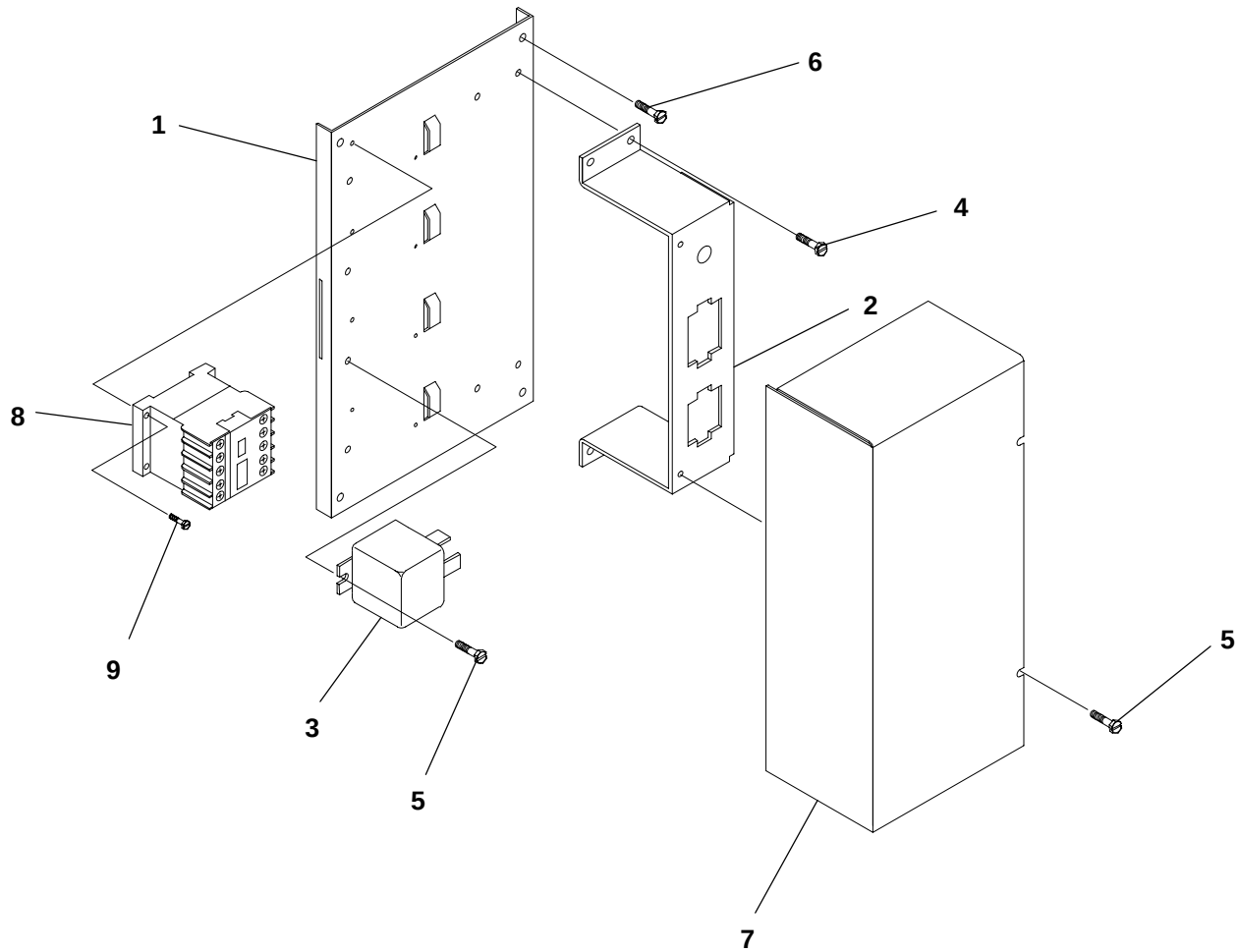
Cabinet Type 4



Cabinet Type 4

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Cabinet	6	870-0212	7	Nut, Self-Locking (1/4-20)
	319-5442-02	1	150/225 Amp	7	508-0233	6	Washer, Rubber
	319-5443-02	1	260 Amp	8	870-0131	6	Nut, Hex - W/E/T (#10-32)
2			Cabinet	9	332-3647	3	Lug, Solderless (1/4")
	319-3870-02	1	150/225 Amp	10	517-0266	4	Plug, Hole
	319-3880-02	1	260 Amp	11	812-0177	7	Screw, Round Head (5/16-18 x .75)
3			Harness, Main	12	526-0022	7	Washer, Flat (5/16)
			150/225 Amp	13	301-6727	7	Bracket, Door
	338-4434	1	All Except 600 VAC	14	406-0519	7	Spring, Conical
	338-4473	1	600 VAC	15			Gasket, Door
			260 Amp		895-0293-03	2	150/225 Amp
	338-4436	1	All Except 600 VAC		895-0293-05	2	260 Amp
	338-4437	1	600 VAC				Gasket, Door
4	300-5889	1	Display, Control (Includes Gasket and Clip)	16			150/225 Amp
	234-1031	1	Gasket, Display		895-0293-04	2	260 Amp
	518-0731	1	Clip, Display		895-0293-06	2	Lead
5	315-0661	1	Transformer, Power (600 VAC Only)	17	226-4916-01		Washer - W/ET (M5)
				18	853-2005	2	Nut, Hex (M5)
				19	860-2006	6	

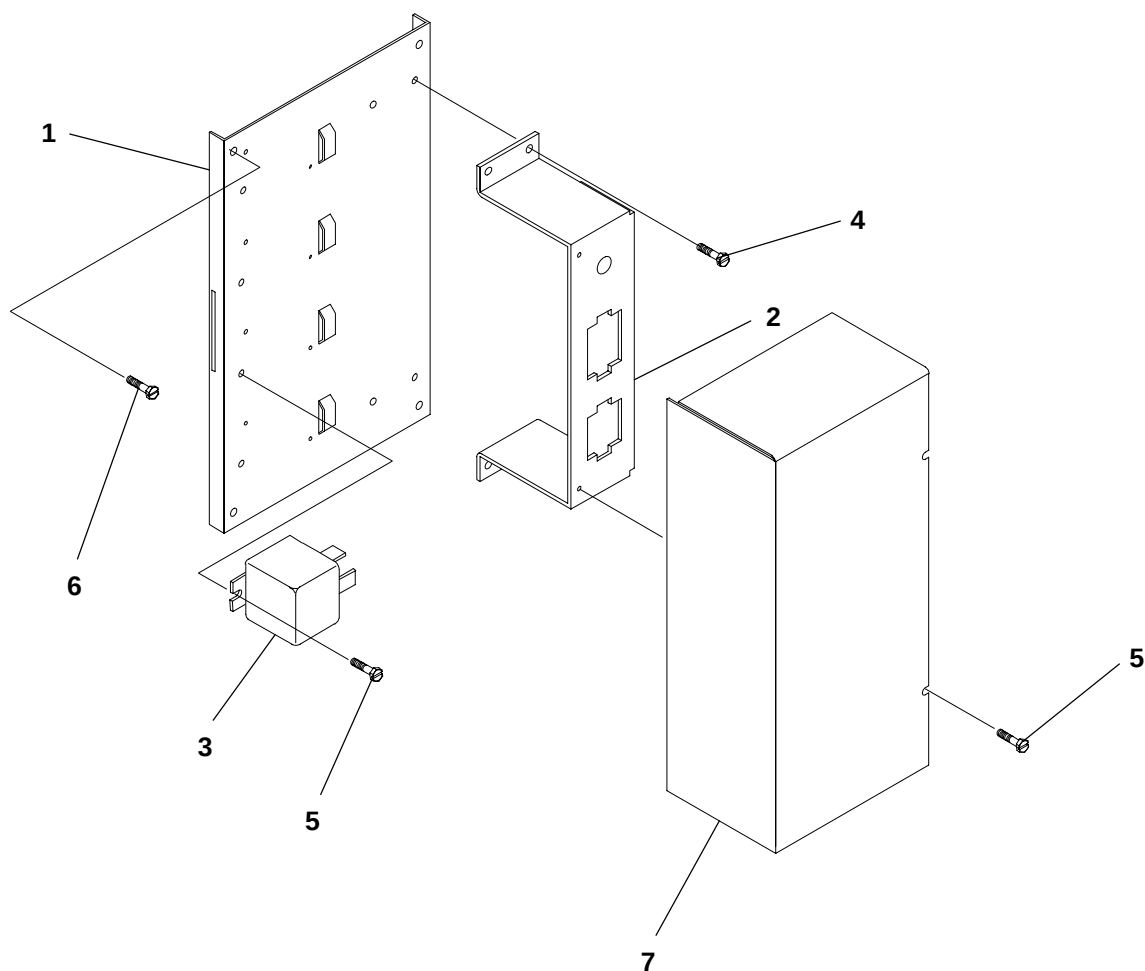
Accessory Control Plate 600 Volt



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)

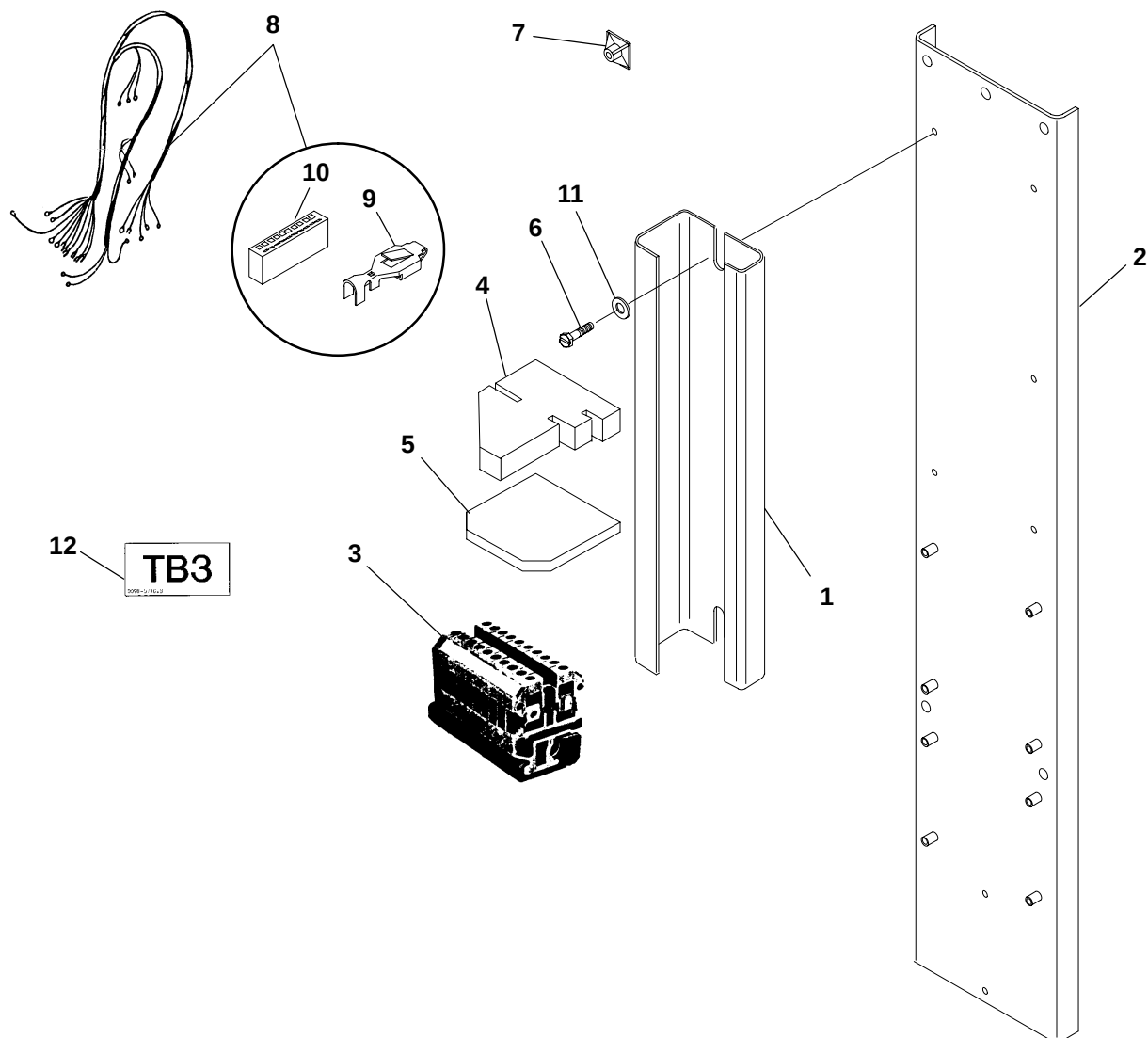
Accessory Control Plate Less than 600 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3940-02	1	Plate, Relay
2	319-3941-02	1	Bracket, Connector
3			Relay - 3PDT
	307-2929	3	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

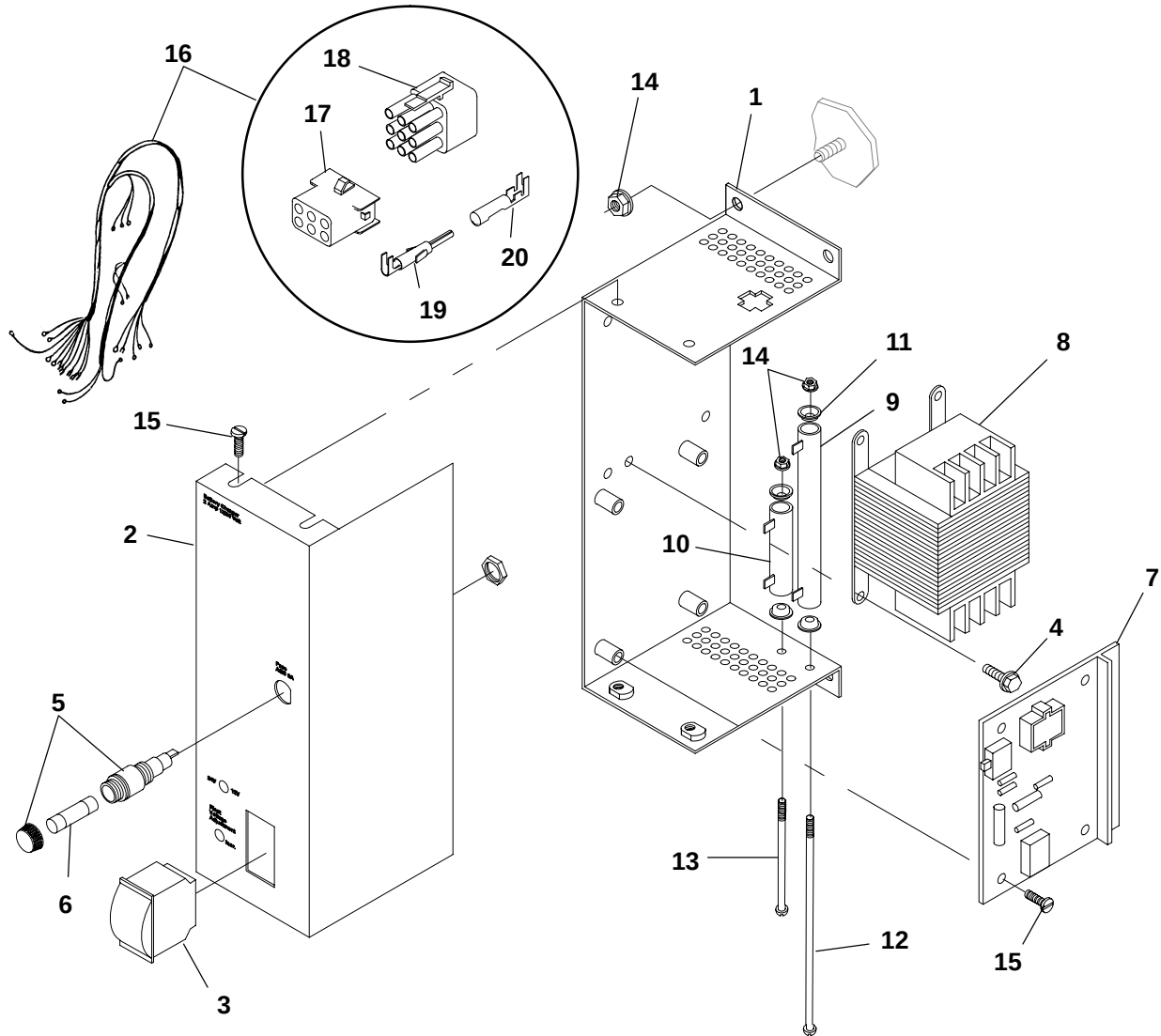


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
7	332-2420	A/R	Mount,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

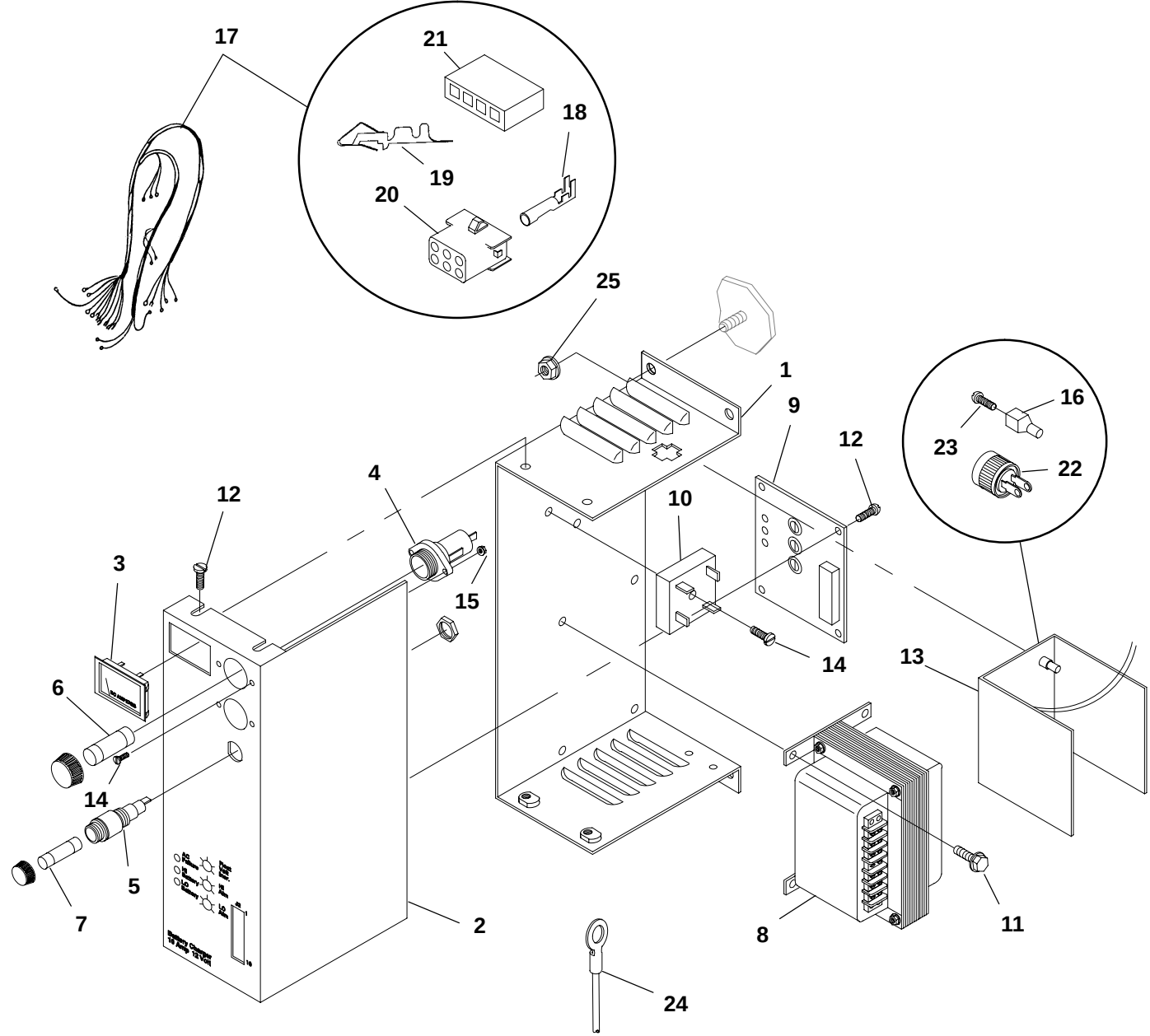


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9990	1	Wrapper, Charger – Battery
2	301-9991	1	Cover, Charger – Battery
3	302-0807	1	Ammeter, DC
4	821-0040	4	Screw, Machine – Locking Head Slotted (#10-32 x 5/16)
5	321-0175	1	Holder, Fuse
6	321-0153	1	Fuse, 3 Amp
7	300-2946	1	Board, Printed Circuit
8			Transformer
	315-0621-01	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)

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	6	Nut, Hex – W/ET (#10-32)
15	815-0845	8	Screw, Pan Head – W/ET (#6-32 x 3/8)
16	338-2149	1	Harness, Wiring (Includes Parts Marked #)
17	323-1318	1	*Cap, 6 pin (J6)
18	323-1291	1	*Plug, 9 pin (P9)
19	323-1199	A/R	*Pin, Terminal
20	323-1200	A/R	*Socket, Terminal

* – Parts Included in 338-2149 Wiring Harness

**Battery Charger
10 Amp, 12 Volt**



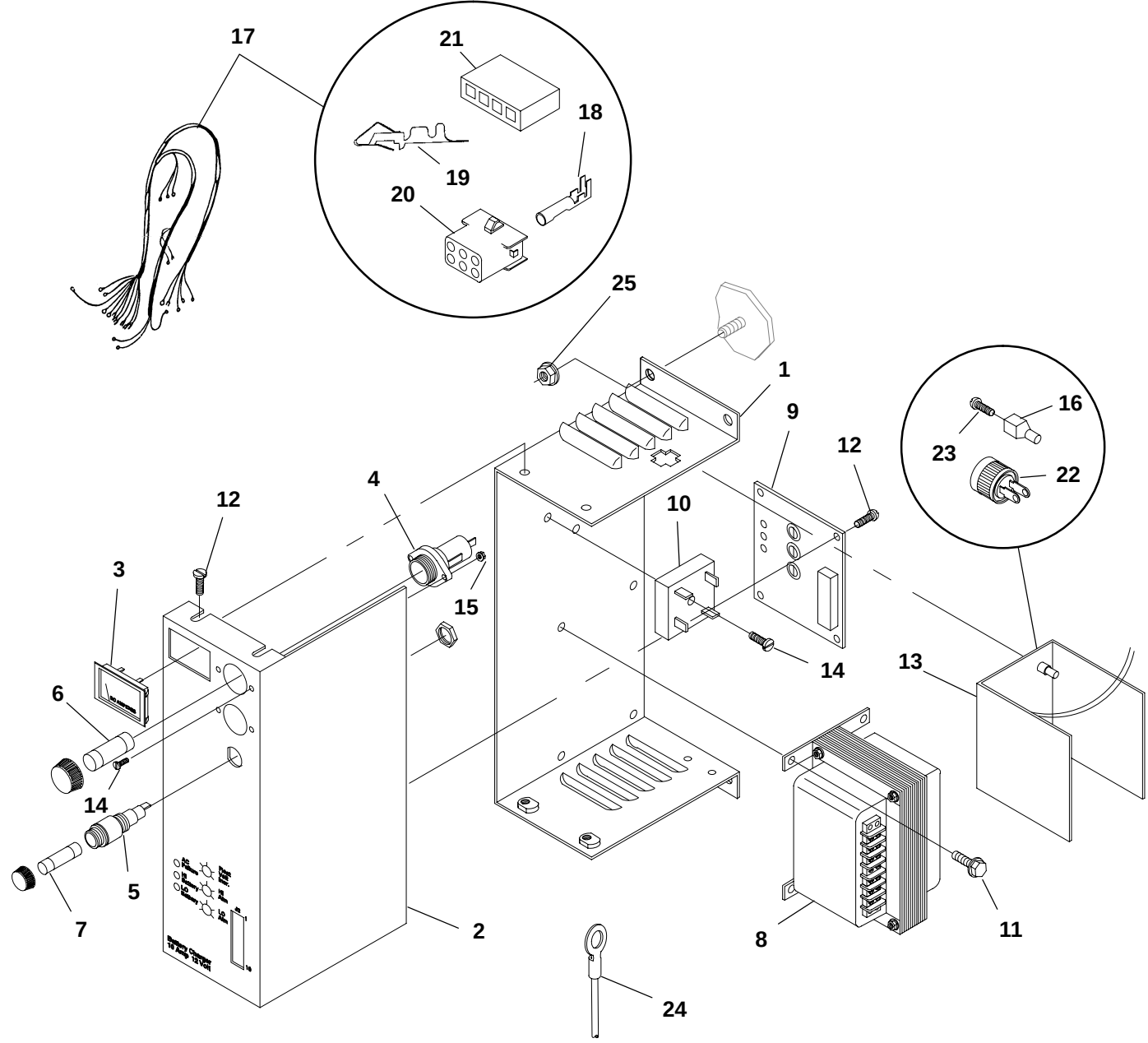
Battery Charger 10 Amp, 12 Volt

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**



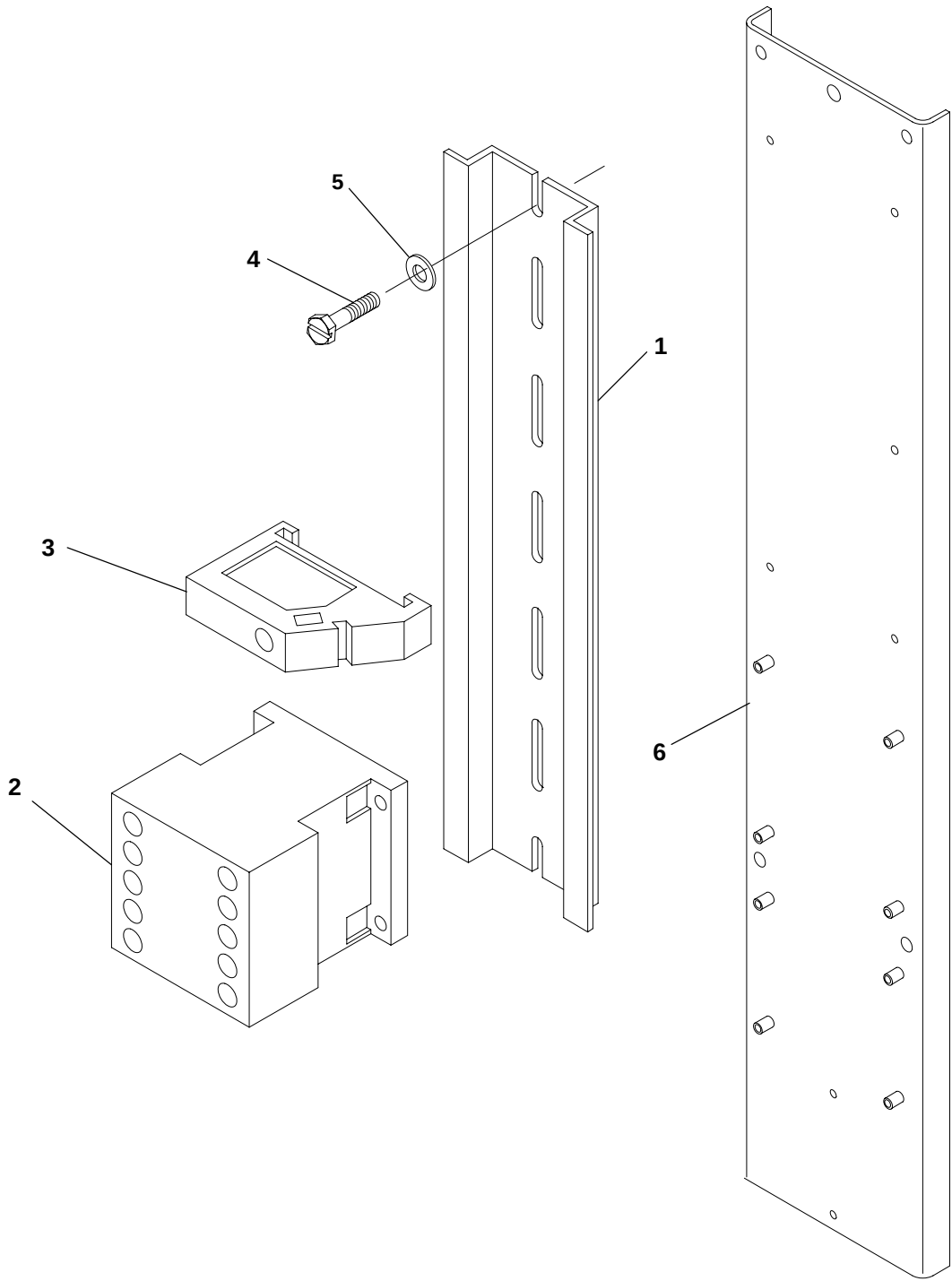
Battery Charger 10 Amp, 24 Volt

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				
			50 Hertz				
	321-0304-04	2	380/416/440 Volt				
	321-0304-05	2	240 Volt	14	815-0539	6	Screw, Pan Head – W/ET (#8-32 x 5/8)
	321-0304-06	2	220 Volt				
			60 Hertz				
	321-0303-02	2	600 Volt	15	870-0221	5	Nut, Hex – W/ET (#8-32)
	321-0304-03	2	480 Volt	16	870-0263	4	*Nut, Insulated (#8)
	321-0304-04	2	380 Volt	17	338-2223	1	Harness, Battery Charger (Includes Parts Marked #)
	321-0304-05	2	240 Volt				
	321-0304-06	2	120/208 Volt	18	323-1200	A/R	#Socket, Terminal
7	321-0127	1	Fuse (15 Amp)	19	323-1302	A/R	#Pin, Terminal
8			Transformer	20	323-1318	1	#Cap, 6 pin
			50 Hertz	21	323-1374-05	1	#Plug, 5 pin
				22	364-0003	1	*Rectifier, Gate (SCR)
	315-0705	1	220/416/440 Volt	23	809-0035	4	*Screw, Sheet Metal – Round Head (#8 x 3/4)
	315-0703	1	380 Volt				
	315-0713	1	240 Volt	24	226-3554-02	1	Lead (Quantity Used as Required)
			60 Hertz				
	315-0701	1	120/208/240 Volt	25	870-0131	4	Nut, Hex – W/ET (#10-32)
	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

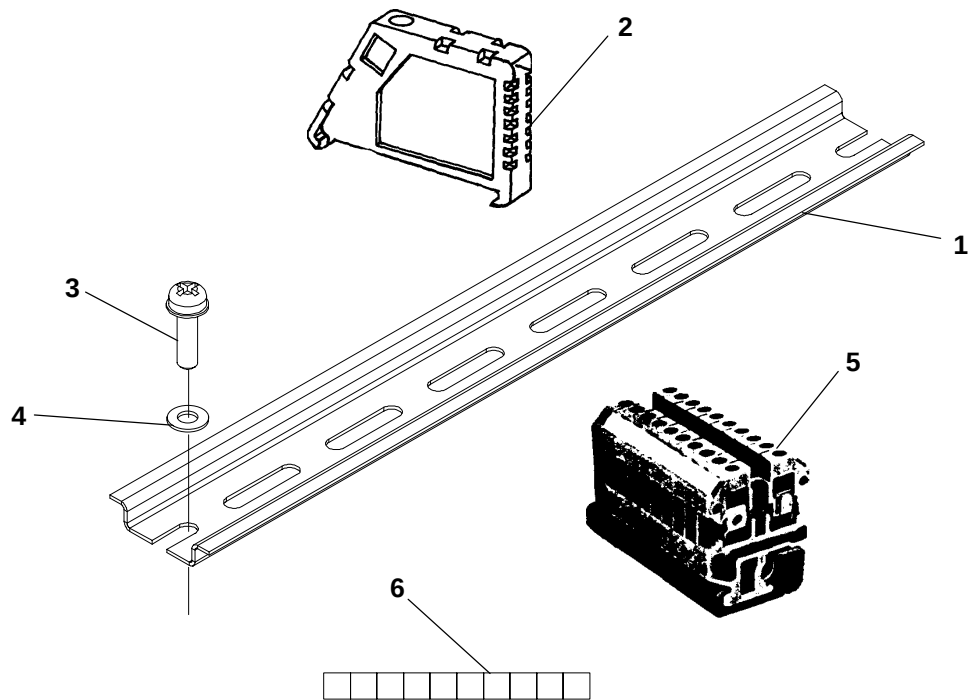
Elevator Signal and Auxiliary Relay



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-04	1	Rail, Terminal
2	307-2873	1	Relay, Control
	307-2874	1	12 VDC
	307-2874	1	24 VDC
3	332-2878	2	Bracket, End

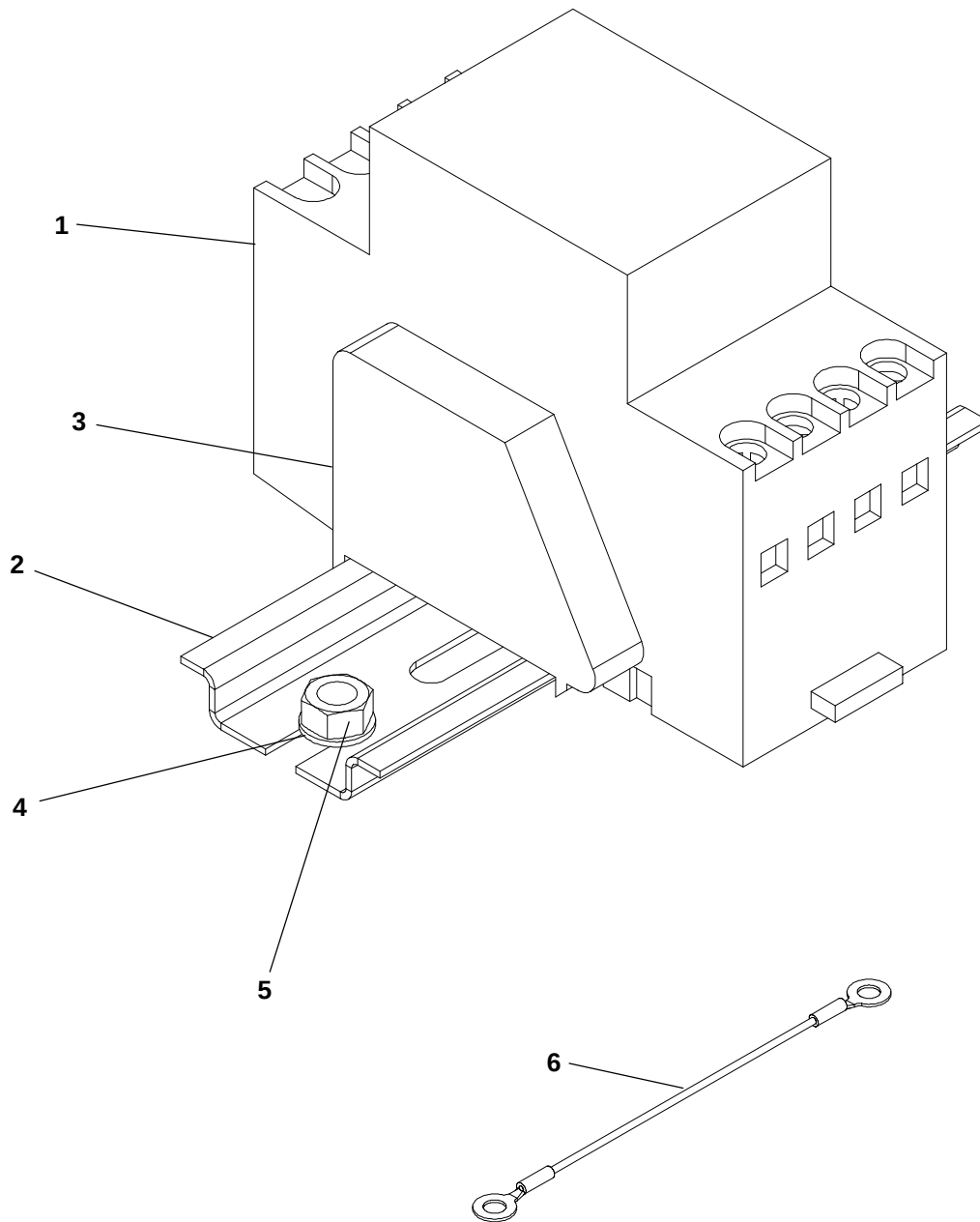
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
5	526-0003	2	Washer, Flat
6	319-3943-01	1	Plate, Mounting

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

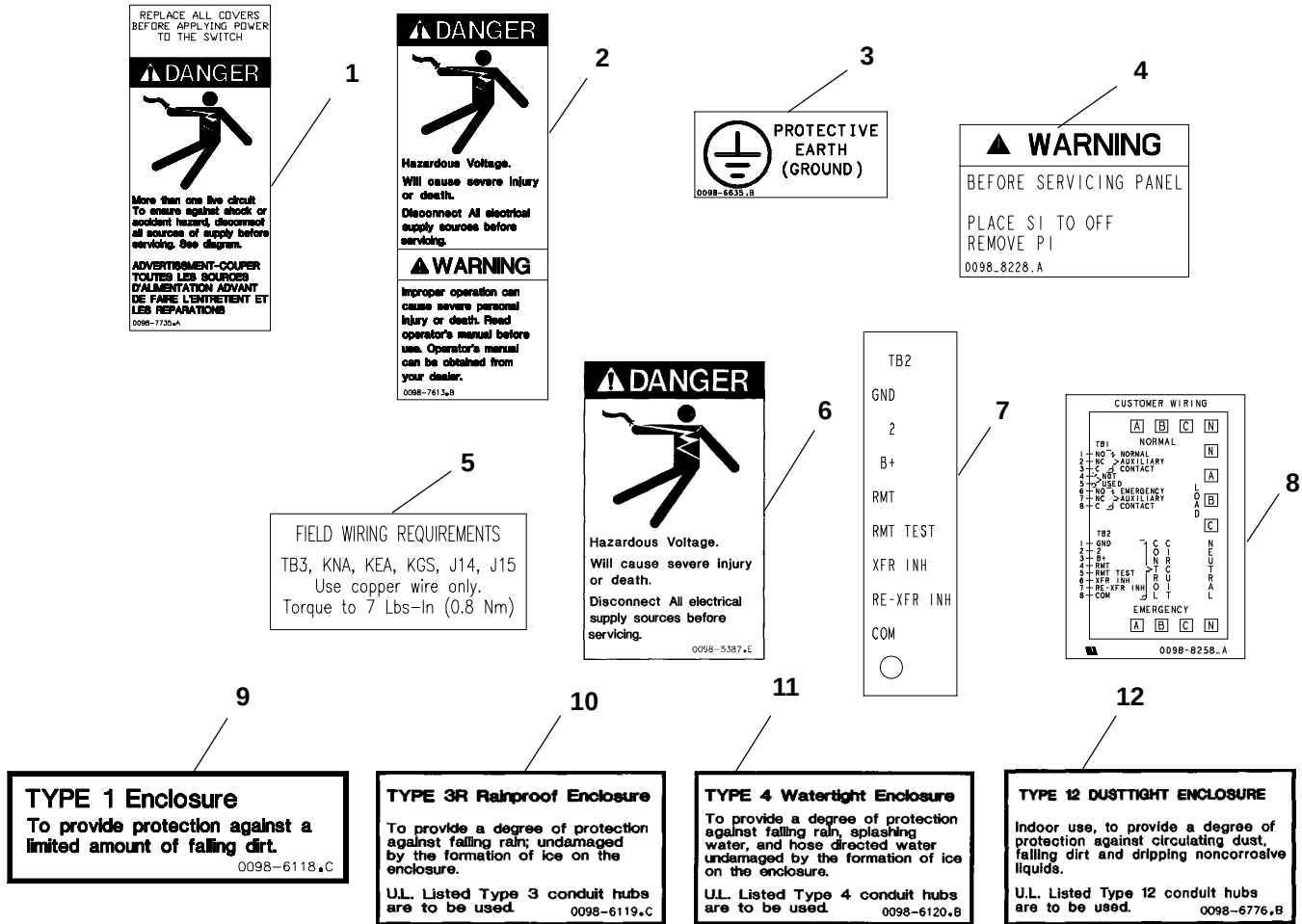
Exercise Clock



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”

Labels



CUSTOMER CONNECTIONS TERMINAL TORQUE REQUIREMENTS					
TORQUE, POUND-INCHES (N-m) FOR SLOTTED SCREWS SMALLER THAN NO. 10 FOR USE WITH NO. 8 AND OR SMALLER CONDUCTORS. UNLESS OTHERWISE MARKED BY CONDUCTOR CONNECTIONS, USE NEXT SMALLER TORQUE FOR INTERMEDIATE SIZES.					
SCREW SLOT LENGTH	SLOT WIDTH LESS THAN 0.47 in (1.2 mm)	SLOT WIDTH 0.47 in (1.2 mm) AND LARGER			
Inch	mm	Inch	mm	Inch	mm
to 5/32 (4)	7	0.79	9	1.0	25
5/32 (4)	7	0.79	12	1.4	36
3/16 (4.8)	7	0.79	12	1.4	36
7/32 (5.6)	7	0.79	12	1.4	36
1/4 (6.4)	9	1.0	12	1.4	36
9/32 (7.1)	-	-	15	1.7	43
over 9/32 (7.1)	-	-	20	2.3	58

LUG TIGHTENING REQUIREMENTS					
NORMAL, EMERGENCY, LOAD, NEUTRAL AND GROUND LUGS ACCEPT EITHER CU OR AL CONNECTORS. ALL OTHER TERMINALS ACCEPT ONLY CU. FOR PROPER OPERATION, TORQUE FIELD CONNECTIONS TO THE FOLLOWING VALUES:					
SCREW SOCKET ACROSS FLATS	MINIMUM TIGHTENING TORQUE				
Inch	mm	Inch	mm	Inch	mm
5/32 (4)	100	11.3	287	1.0	25
3/16 (4.8)	120	13.6	345	1.4	36
7/32 (5.6)	150	16.9	428	1.4	36
1/4 (6.4)	200	22.6	578	1.4	36
5/16 (8)	275	31.1	794	1.4	36
3/8 (10)	375	42.4	1088	1.4	36
1/2 (13)	500	56.5	1444	1.4	36
9/16 (14)	600	67.8	1744	1.4	36

0098-6367.C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7735	1	Label, Danger
2	098-7613	1	Label, Danger/Warning
3	098-6635	1	Label, Ground
4	098-8228	1	Label, Warning
5	098-7621	1	Label, Torque
6	098-5387	1	Label, Danger
7	098-8257	1	Label, Information

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	098-8258	1	Label, Information
9	098-6118	1	Label, Cabinet - Type 1
10	098-6119	1	Label, Cabinet - Type 3R
11	098-6120	1	Label, Cabinet - Type 4
12	098-6776	1	Label, Cabinet - Type 12
13	098-6367	1	Label, Torque

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