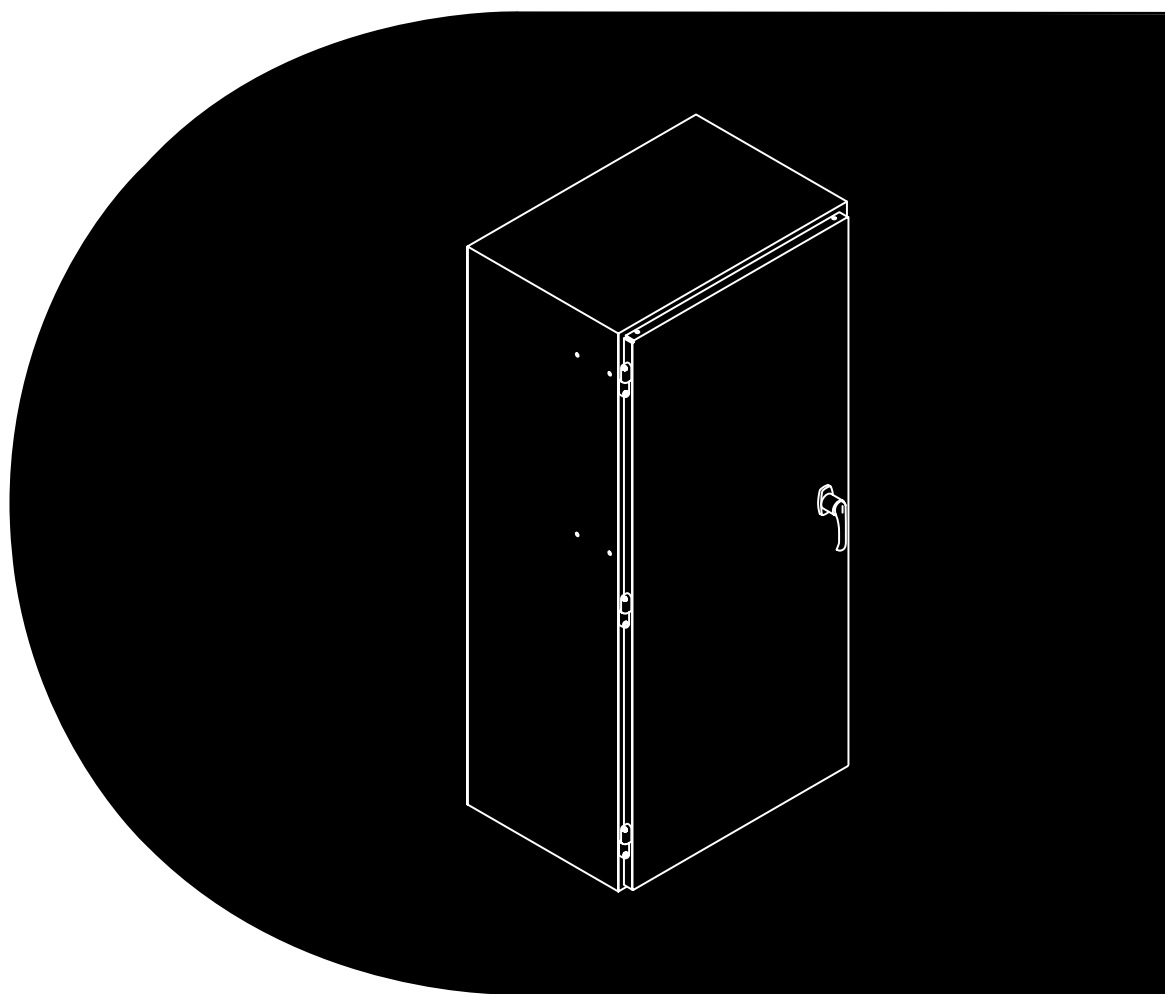


Parts Catalog

Transfer Switch Model

OTEC

300/400/600 Amp



Printed in U.S.A.

962-0242 (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 300/400/600 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	S052	Current Rating – 300 Amps
L102	Auxiliary Relay – Emergency Position – 24 VDC	S053	Current Rating – 400 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC	S054	Current Rating – 600 Amps

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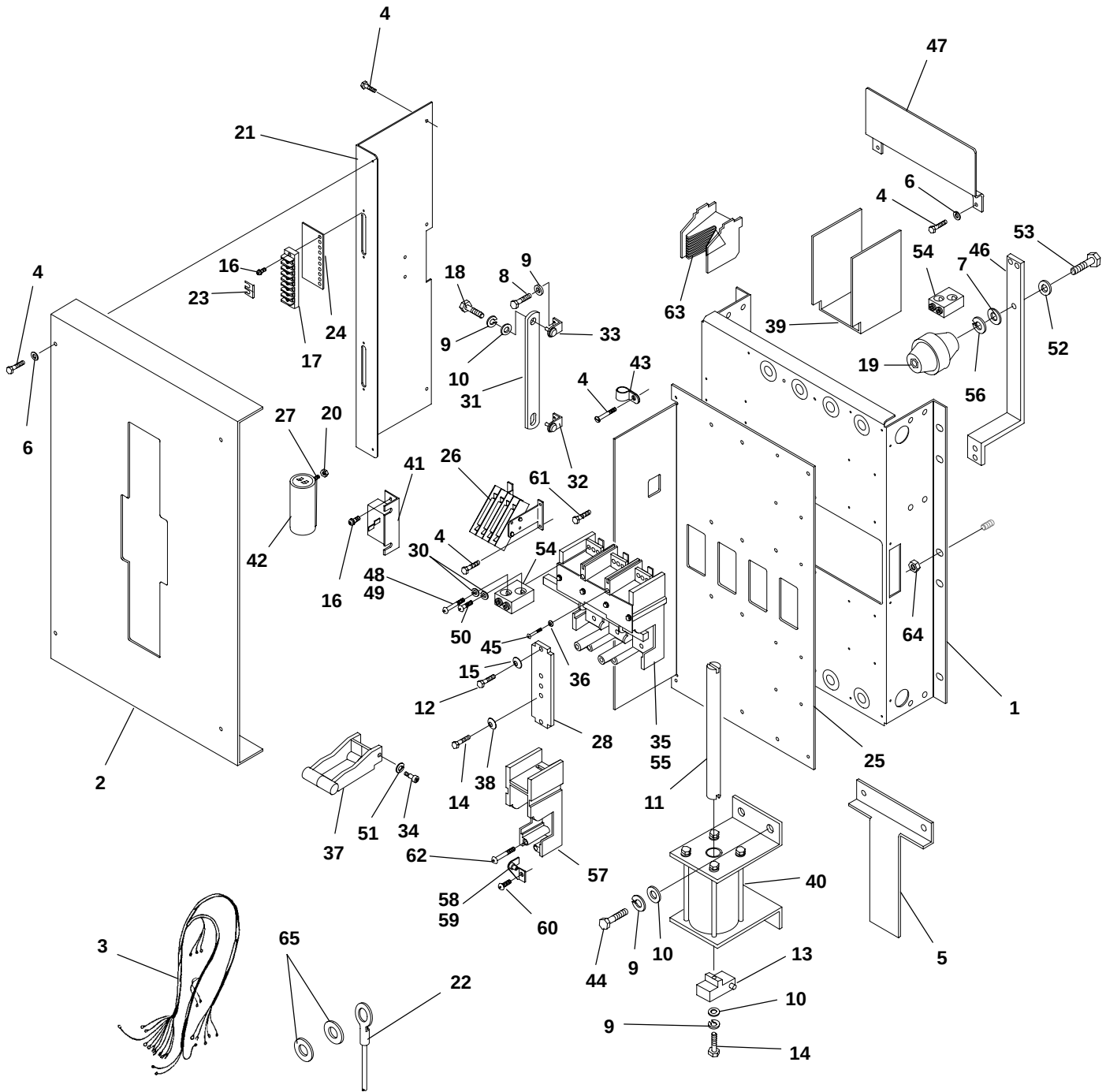
Abbreviations

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



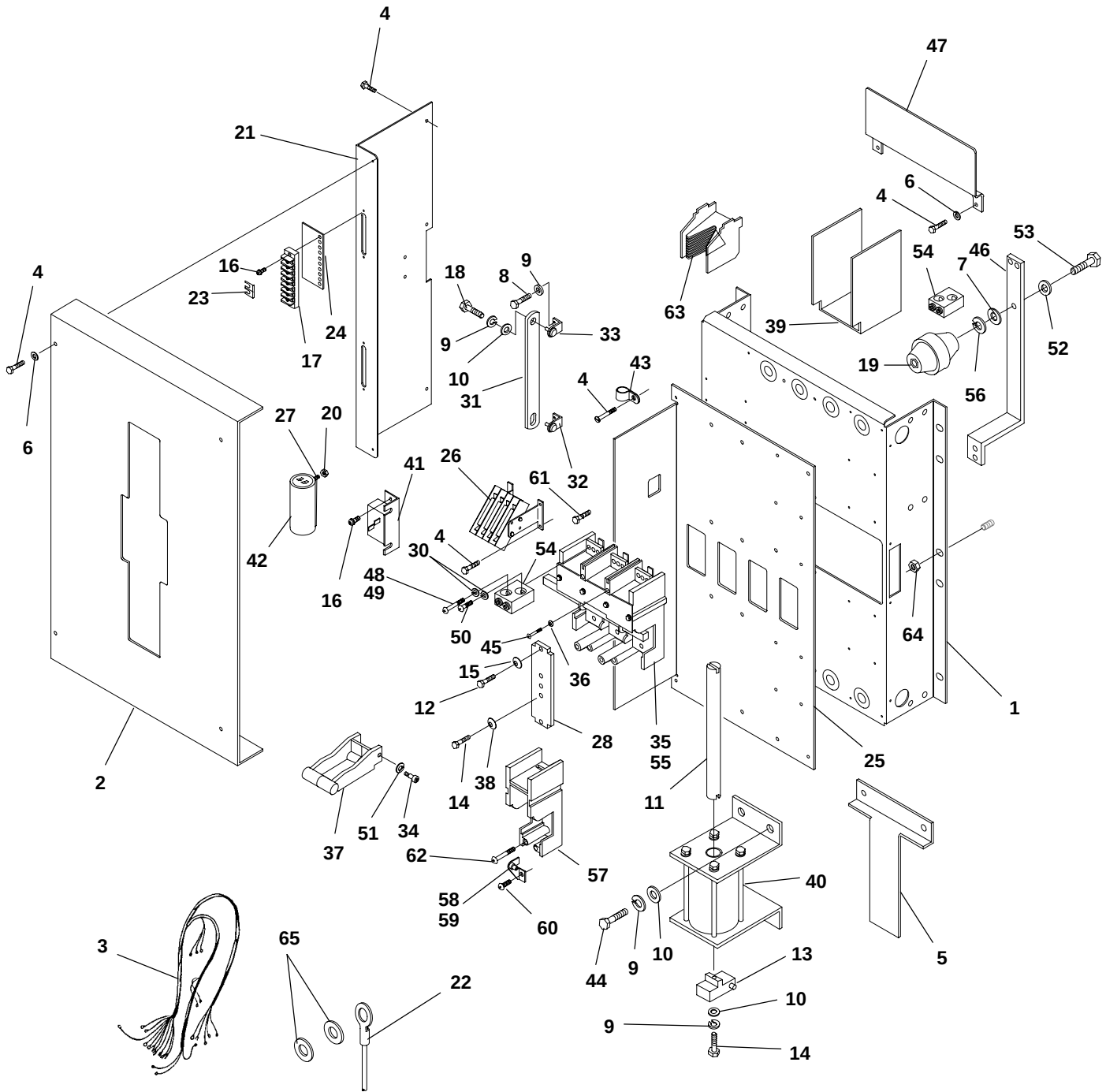
Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Transfer Switch Assembly				4-Pole, Front Connect with
			3-Pole, Front Connect with				Mechanical Lugs
			Mechanical Lugs				300 Amp
			300 Amp	306-4409-02	1		190 VAC
306-4408-01	1		120 VAC	306-4409-03	1		208/600* VAC
306-4408-02	1		190 VAC	306-4409-04	1		220/240 VAC
306-4408-03	1		208/600* VAC	306-4409-05	1		380/416 VAC
306-4408-04	1		220/240 VAC	306-4409-06	1		440/480 VAC
306-4408-05	1		380/416 VAC				400 Amp
306-4408-06	1		440/480 VAC	306-4409-08	1		190 VAC
			400 Amp	306-4409-09	1		208/600* VAC
306-4408-07	1		120 VAC	306-4409-10	1		220/240 VAC
306-4408-08	1		190 VAC	306-4409-11	1		380/416 VAC
306-4408-09	1		208/600* VAC	306-4409-12	1		440/480 VAC
306-4408-10	1		220/240 VAC				600 Amp
306-4408-11	1		380/416 VAC	306-4409-14	1		190 VAC
306-4408-12	1		440/480 VAC	306-4409-15	1		208/600* VAC
			600 Amp	306-4409-16	1		220/240 VAC
306-4408-13	1		120 VAC	306-4409-17	1		380/416 VAC
306-4408-14	1		190 VAC	306-4409-18	1		440/480 VAC
306-4408-15	1		208/600* VAC				
306-4408-16	1		220/240 VAC				
306-4408-17	1		380/416 VAC				
306-4408-18	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.

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Transfer Switch

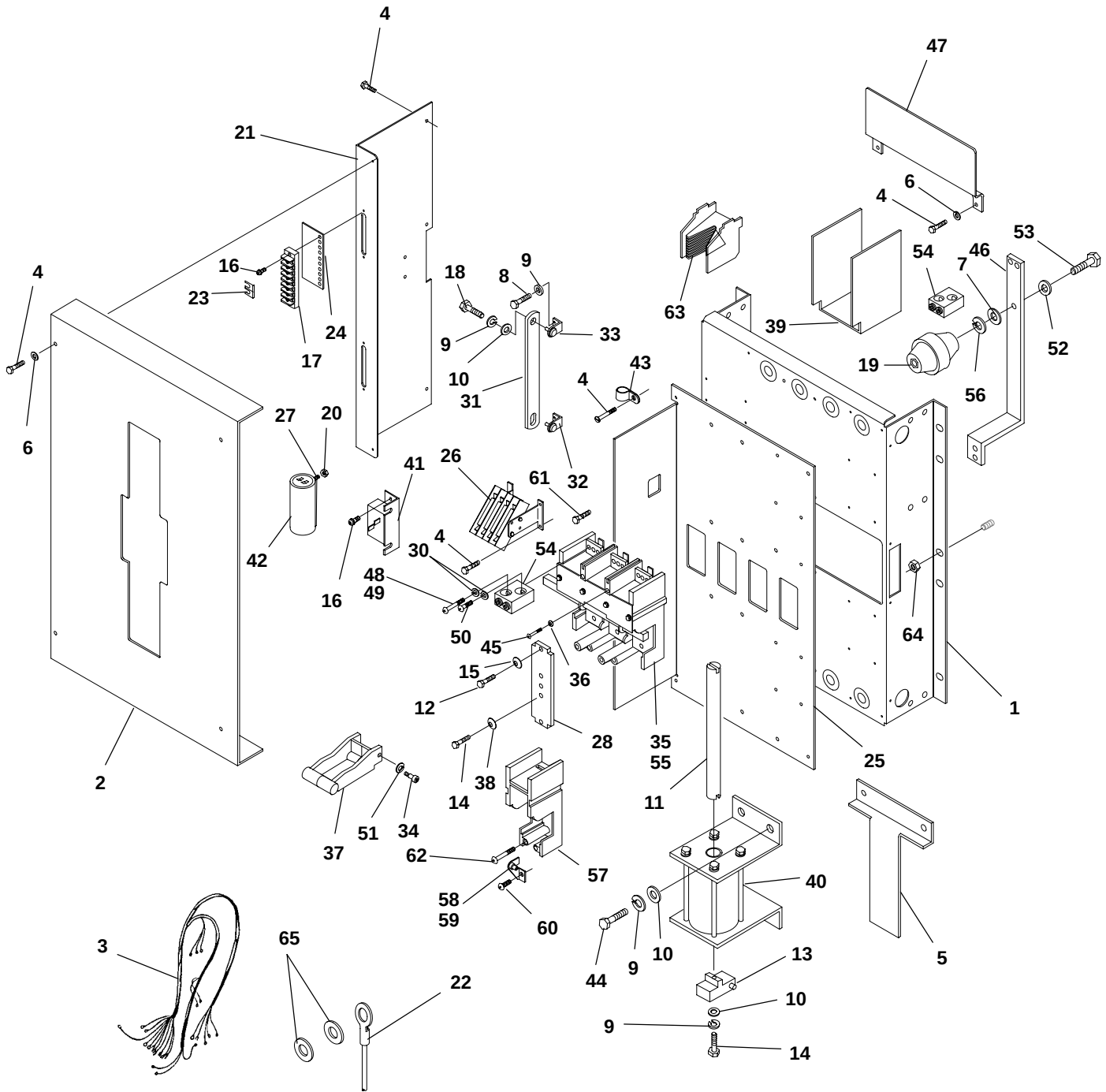


Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
1	306-3415	1	Base, Mounting	27	815-0029	A/R	Screw, Flat Head – Cross Recessed (#10-32 x .50)
2	306-4270	1	Cover, Labeled	28	337-1941	3	3-Pole
3	338-3792	1	Harness, Wiring		337-1941	4	4-Pole
4			Screw, Hex Head – Slotted – W/IT (#10-32 x .50)	29			Nut, Hex (1/4-20)
	815-0652	23	3-Pole		862-0001	6	3-Pole
	815-0652	25	4-Pole		862-0001	8	4-Pole
5	306-2340	2	Barrier	30			Washer, Lock (1/4)
6			Washer, Flat (#10)		850-0039	18	3-Pole
	526-0008	8	3-Pole		850-0039	24	4-Pole
	526-0008	10	4-Pole	31	306-3107	1	Bar, Interlock
7			Washer, Lock – W/ET (3/8)	32	306-0510	1	Arm, Interlock
	853-0018	3	3-Pole	33	306-0509	1	Arm, Interlock
	853-0018	4	4-Pole	34	815-0485	4	Screw, Shoulder (#10-32)
8	800-0002	2	Screw, Cap – Hex Head (1/4-20 x .38)	35			Block and Cross Bar Assembly – Emergency
9	850-0040	10	Washer, Lock (1/4)		306-3414-02	1	3-Pole
10	526-0018	8	Washer, Flat (1/4)		306-3414-04	1	4-Pole
11	306-3424	1	Rod, Actuator	36	526-2081	8	Washer, Flat
12			Screw, Cap – Hex Head (5/16-18 x 1.00)	37	306-1372	2	Handle, Actuator (See Separate Page For Components)
	800-0028	6	3-Pole	38			Washer, Spring – Conical (1/4)
	800-0028	8	4-Pole		851-0027	12	3-Pole
13	306-3400-02	2	Rod-End, Actuator		851-0027	16	4-Pole
14			Screw, Cap – Hex Head (1/4-20 x 1.25)	39			Barrier, Lug
	800-0008	8	3-Pole		306-3893	1	3-Pole
	800-0008	10	4-Pole		306-3893	2	4-Pole
15			Washer, Spring – Conical (5/16)	40			Actuator, Linear
	851-0028	6	3-Pole		306-3109	1	120 VAC
	851-0028	8	4-Pole		306-3110	1	190 VAC
16	815-0651	6	Screw, Round Head – Cross Recessed (#6-32 x .75)		306-3111	1	208/600 VAC
17	332-2832	2	Block, Terminal		306-3112	1	220/240 VAC
18	800-0003	2	Screw, Hex Head (1/4-20 x .50)		306-3114	1	380/416 VAC
19			Standoff, Insulator		306-3115	1	440/480 VAC
	332-2512	3	3-Pole	41			Breaker, Circuit
	332-2512	4	4-Pole		320-0613	1	120 VAC
20	870-0131	A/R	Nut, Hex – W/ET (#10-32)		320-0611	1	190/208/220/240/600 VAC
21	306-3418	2	Bracket, Terminal		320-0609	1	380/416 VAC
22	226-3380	A/R	Lead (380/416/440/480 VAC)		320-0608	1	440/480 VAC
23	332-2605	1	Jumper, Terminal	42			Capacitor
24	332-2903	2	Strip, Marker		312-0239	1	120 VAC
25	306-3416	1	Barrier, Base		312-0218	1	190/208/600 VAC
26			Switch Assembly, Auxiliary (See Separate Page For Components)		312-0206	1	220/240 VAC
			Normal		312-0204	2	380/416 VAC
	306-4748	1	Emergency		312-0236	2	440/480 VAC
	306-4749	1		43	332-2542	1	Clamp, Cable

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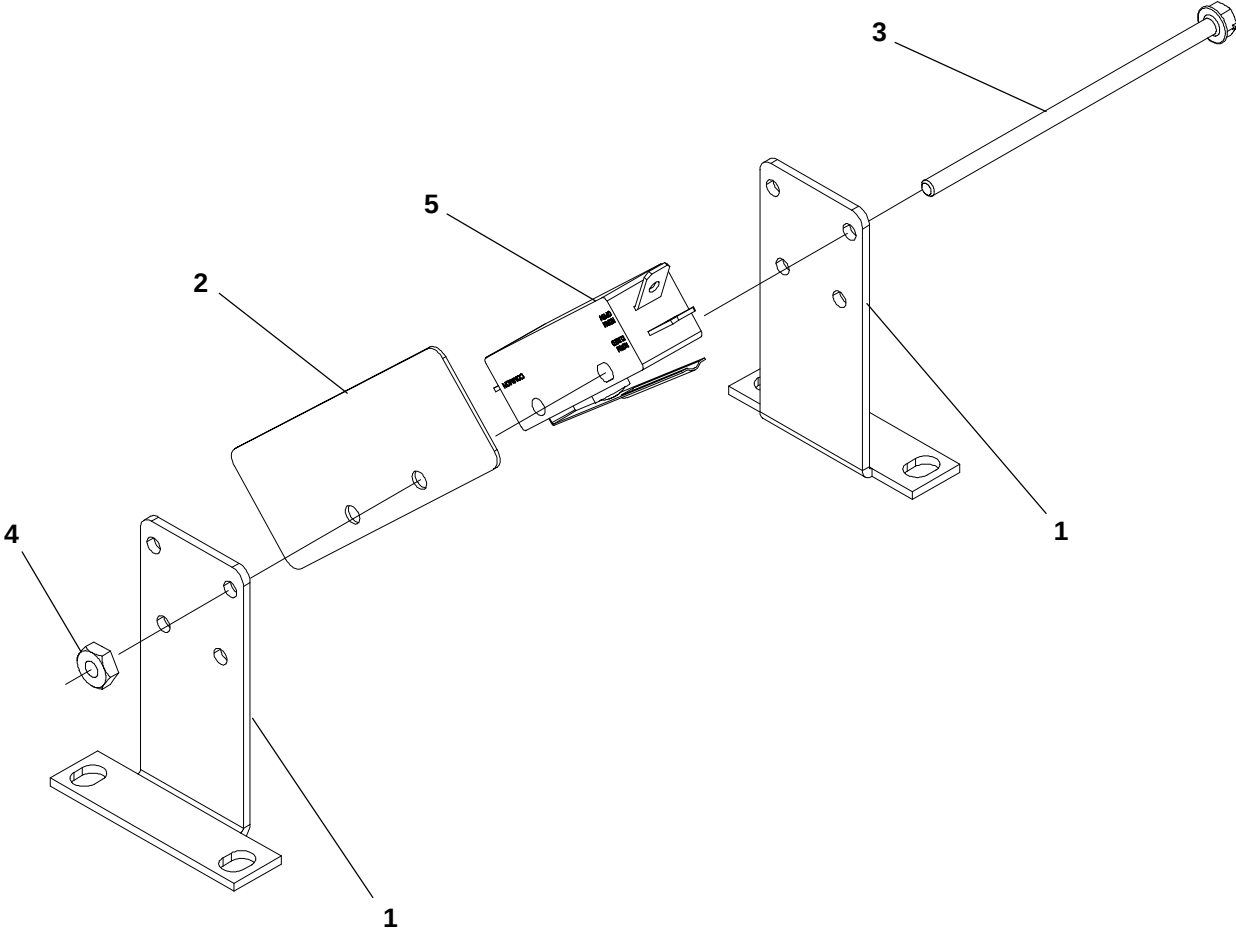
Transfer Switch



Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				53			Screw, Cap – Hex Head (3/8–16 x 1.0)
44	800–0007	4	Screw, Cap – Hex Head (1/4–20 x 1.00)		800–0050	3	3-Pole
45	815–0656	8	Screw, Round Head – Cross Recessed (1/4–20 x 2.75)		800–0050	4	4-Pole
46			Strap, Load	54			Lug, Solderless
	337–1940	3	3-Pole		332–2704	12	300/400 Amp
	337–1940	4	4-Pole		332–2660	12	600 Amp
47			Cover, Lug	55			Block and Cross Bar Assembly – Normal
	306–3899	1	3-Pole		306–3414–01	1	3-Pole
	306–3892	1	4-Pole		306–3414–03	1	4-Pole
48			Screw, Pan Head (1/4–20 x 1.25)	56			Washer, Lock – W/ET (3/8)
	822–0089	9	3-Pole – 300–400 Amp		526–0030	3	3-Pole
	822–0089	12	4-Pole – 300–400 Amp		526–0030	4	4-Pole
49			Screw, Pan Head (1/4–20 x 1.50)	57	306–3423	2	Block and Contact Assembly – 4-Pole
	822–0091	9	3-Pole – 600 Amp	58	306–0384	1	Support (RH) – 4-Pole
	822–0091	12	4-Pole – 600 Amp	59	306–0382	1	Support (LH) – 4-Pole
50			Screw, Pan Head (1/4–20 x .62)	60	815–0449	2	Screw, Round Head – Crossed Recessed – W/ET (#10–32 x .75) – 4-Pole
	822–0085	9	3-Pole	61	815–0157	2	Screw, Set – Socket Head (#10–32 x 1/4) – 4-Pole
	822–0085	12	4-Pole	62	815–0653	8	Screw, Round Head – Crossed Recessed (#10–32 x 1.75) – 4-Pole
51	850–0030	4	Washer, Lock (#10)	63	306–3030	2	Chute, Arc – 4-Pole
52			Washer, Conical (3/8)	64	870–0281	6	Nut, Lock (3/8–16)
	851–0022	3	3-Pole	65	526–0029	2	Washer, Bolt (3/8)
	851–0022	4	4-Pole				

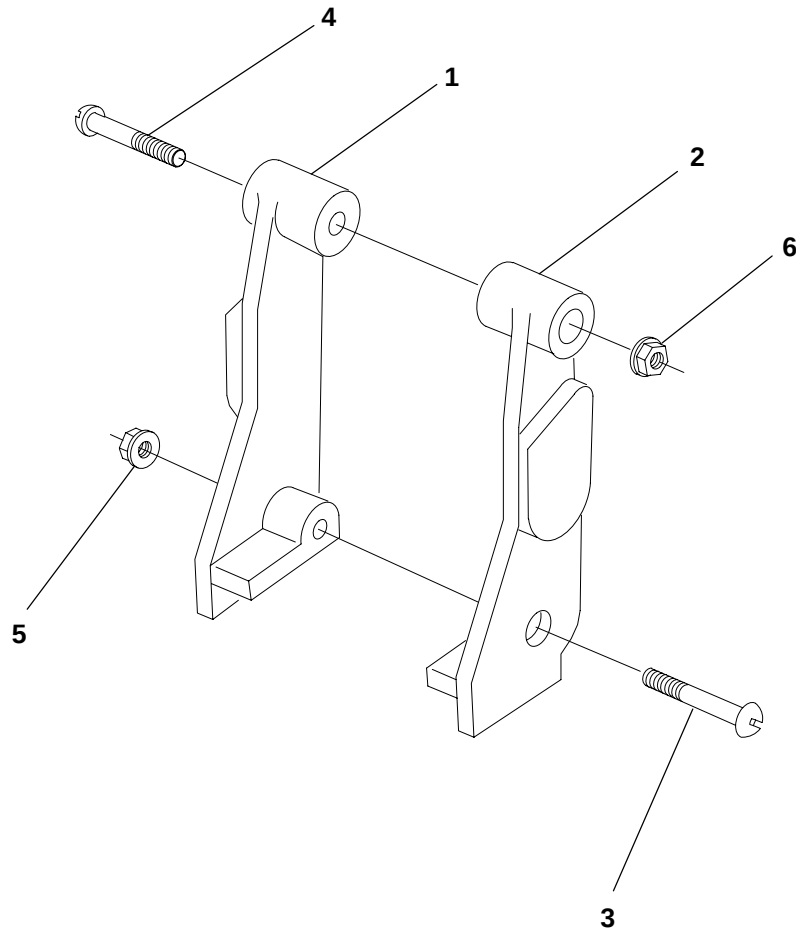
Auxiliary Switch Assembly



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

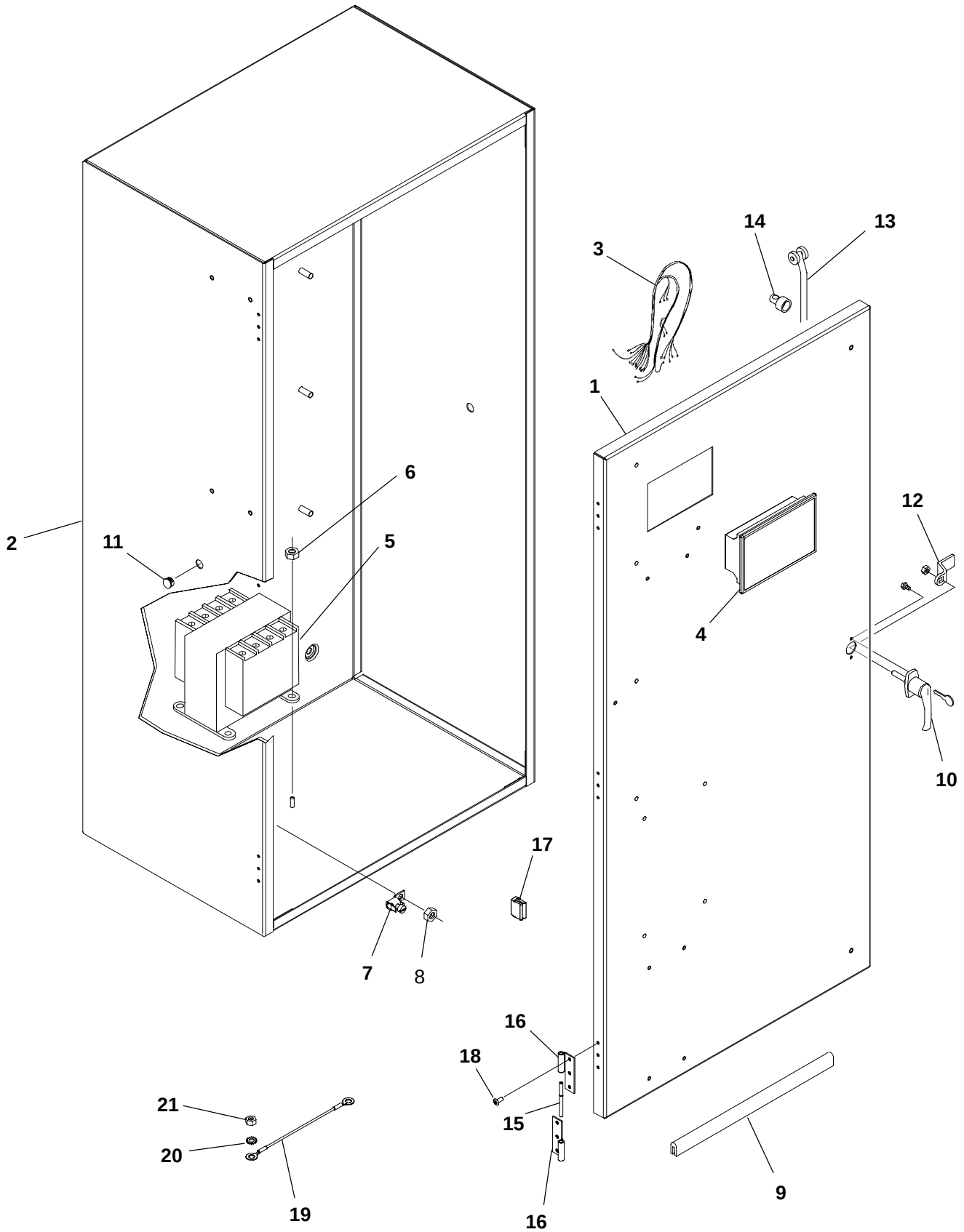
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	815-0686	2	Screw, Cap – Hex Head (#6-32 x 3-1/4)
4	870-0201	2	Nut, Lock (#6-32)
5	308-1166	4	Switch, Lever – Snap Action

Actuator Handle Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-1372	2	Handle Assembly, Actuator	4	815-0933	1	Screw, Machine – Round Head – Cross Recessed (#10-32 x 1-3/4)
1	306-1342	1	Handle, Switch – Left Hand	5	870-0235	1	Nut, Self-Locking (#8-32)
2	306-1341	1	Handle, Switch – Right Hand	6	870-0298	1	Nut, Self-Locking (#10-32)
3	815-0932	1	Screw, Machine – Round Head – Cross Recessed (#8-32 x 2-1/4)				

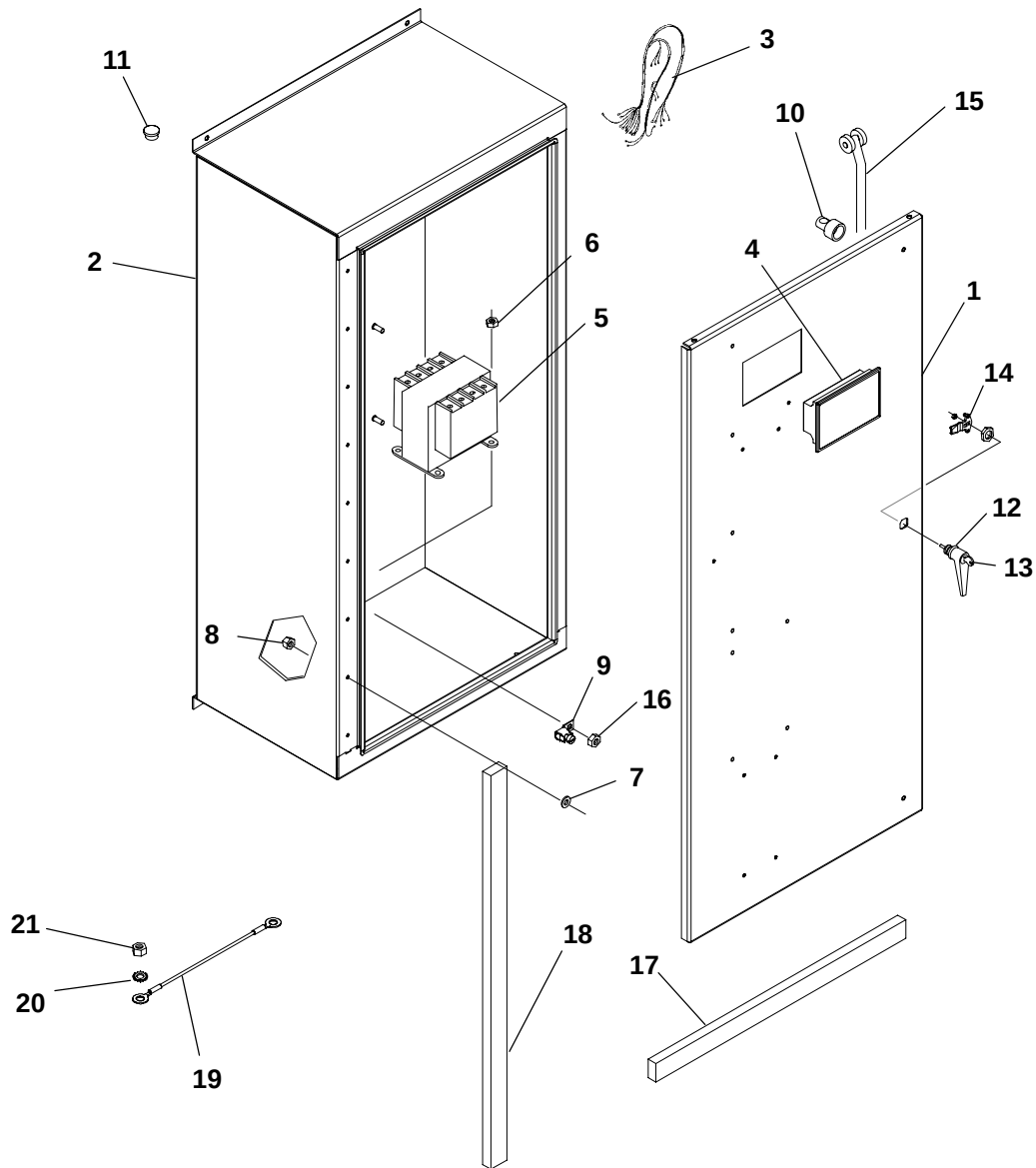
Cabinet Type 1



Cabinet Type 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5402-02	1	Door, Cabinet	9	508-1045	3	Edge, Protection
2	319-3884-02	1	Cabinet	10	406-0809	1	Handle, Locking (Includes Hardware and 2 Keys)
3			Harness, Main	11	517-0135	6	Plug, Hole
	338-4436	1	All Except 600 VAC	12	406-0934	1	Latch, Cam - 3 Point
	338-4437	1	600 VAC	13	306-3468-02	2	Rod, Roller
4	300-5889	1	Display, Control (Includes Gasket and Clip)	14	306-3467	2	Guide, Rod
	234-1031	1	Gasket, Cover	15	406-0966	A/R	Pin, Hinge
	518-0731	1	Clip, Retaining	16	406-0965	A/R	Blade, Liftoff Hinge
5	315-0661	1	Transformer, Power (600 VAC Only)	17	508-1186	3	Bumper
6	870-0212	A/R	Nut, Self-Locking (1/4-20)	18	818-0231-02	18	Rivet, Pop
7	332-3653	3	Lug, Solderless (3/8")	19	226-4916-01		Lead
8	870-0281	3	Nut, Lock (3/8-16)	20	853-2005	2	Washer - W/ET (M5)
				21	860-2006	6	Nut, Hex (M5)

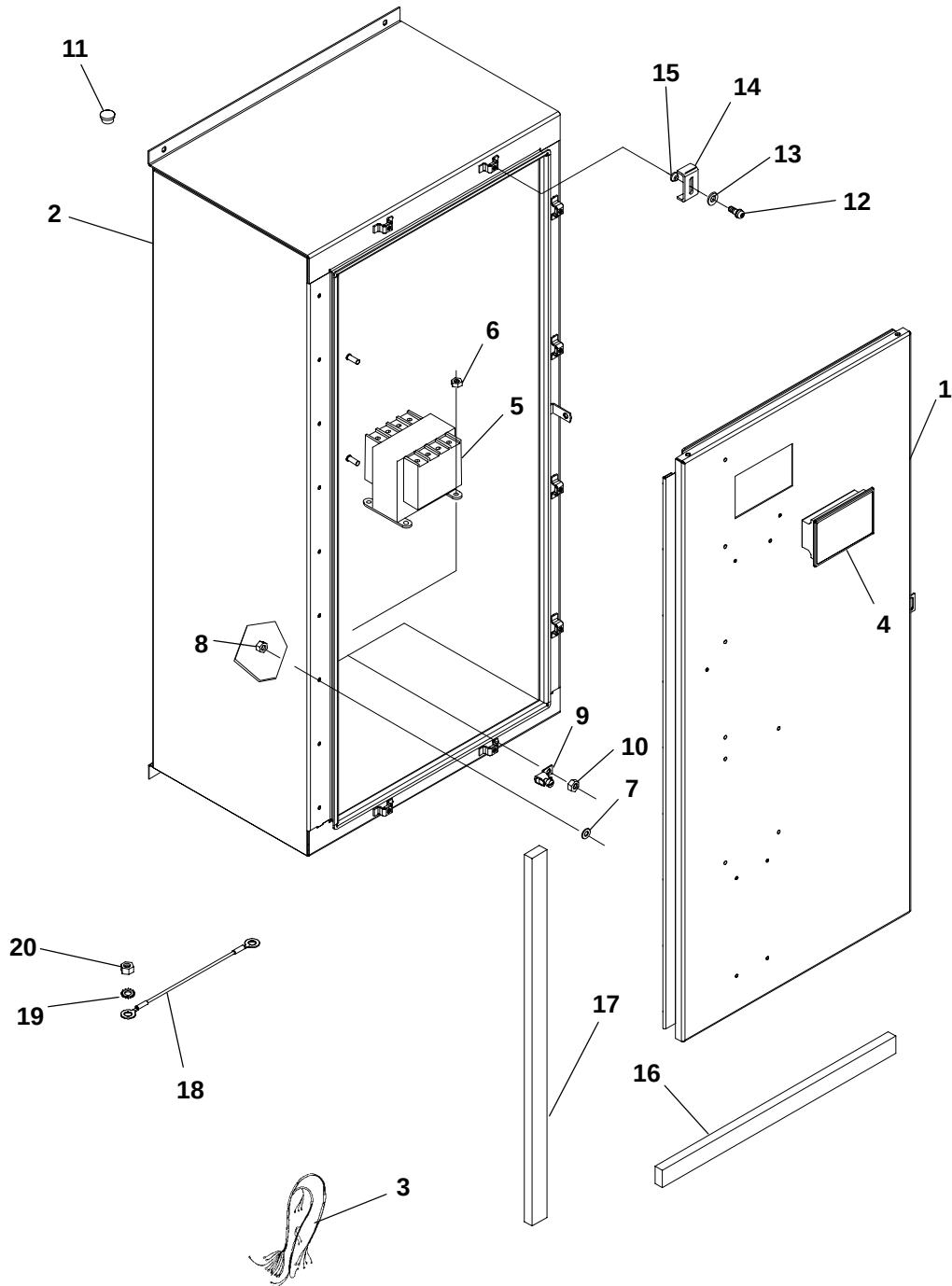
Cabinet Type 3R and 12



Cabinet Type 3R and 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5439-02	1	Door, Cabinet	8	870-0131	9	Nut, Hex – W/E/T (#10-32)
2			Cabinet	9	332-3653	3	Lug, Solderless (3/8")
	319-3887-03	1	Type 3R	10	306-3467	2	Guide, Rod
	319-3887-04	1	Type 12	11	517-0266	4	Plug, Hole
3			Harness, Main	12	406-0613	1	Handle, Door (Includes Key)
	338-4436	1	All Except 600 VAC	13	406-0649	1	Key, Replacement
	338-4437	1	600 VAC	14	306-3525	1	Latch, Cam (3 Point)
4	300-5889	1	Display, Control (Includes Gasket and Clip)	15	306-3526-03	2	Rod, Roller
	234-1031	1	Gasket, Cover	16	870-0281	3	Nut, Self-Locking (3/8-16)
	518-0731	1	Clip, Retaining	17	895-0293-07	2	Gasket, Door
5	315-0661	1	Transformer, Power (600 VAC Only)	18	895-0293-08	2	Gasket, Door
6	870-0212	4	Nut, Self-Locking (1/4-20)	19	226-4916-01		Lead
7	508-0233	9	Washer, Rubber	20	853-2005	2	Washer – W/ET (M5)
				21	860-2006	6	Nut, Hex (M5)

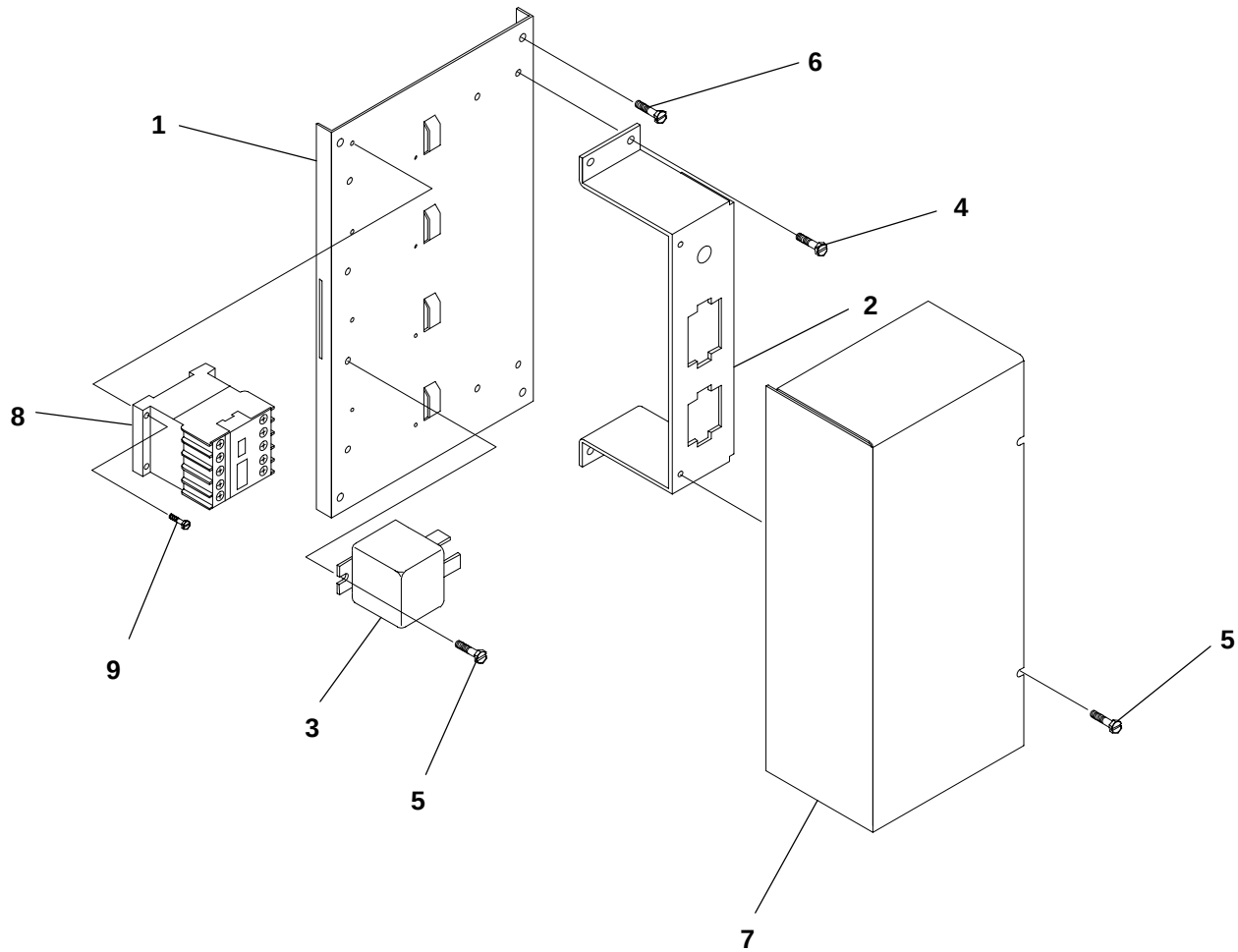
Cabinet Type 4



Cabinet Type 4

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5444-02	1	Door, Cabinet	9	332-3653	3	Lug, Solderless (3/8")
2	319-3890-02	1	Cabinet	10	870-0281	3	Nut, Hex – Self-Locking (3/8–16)
3			Harness, Main	11	517-0266	4	Plug, Hole
	338-4436	1	All Except 600 VAC	12	812-0177	8	Screw, Round Head (5/16–18 x .75)
	338-4437	1	600 VAC	13	526-0022	8	Washer, Flat (5/16)
4	300-5889	1	Display, Control (Includes Gasket and Clip)	14	301-6727	8	Bracket, Door
	234-1031	1	Gasket, Cover	15	406-0519	8	Spring, Conical
	518-0731	1	Clip, Retaining	16	895-0293-07	2	Gasket, Door
5	315-0661	1	Transformer, Power (600 VAC Only)	17	895-0293-08	2	Gasket, Door
6	870-0212	A/R	Nut, Self-Locking (1/4–20)	18	226-4916-01		Lead
7	508-0233	9	Washer, Rubber	19	853-2005	2	Washer – W/ET (M5)
8	870-0131	9	Nut, Hex – W/E/T (#10–32)	20	860-2006	6	Nut, Hex (M5)

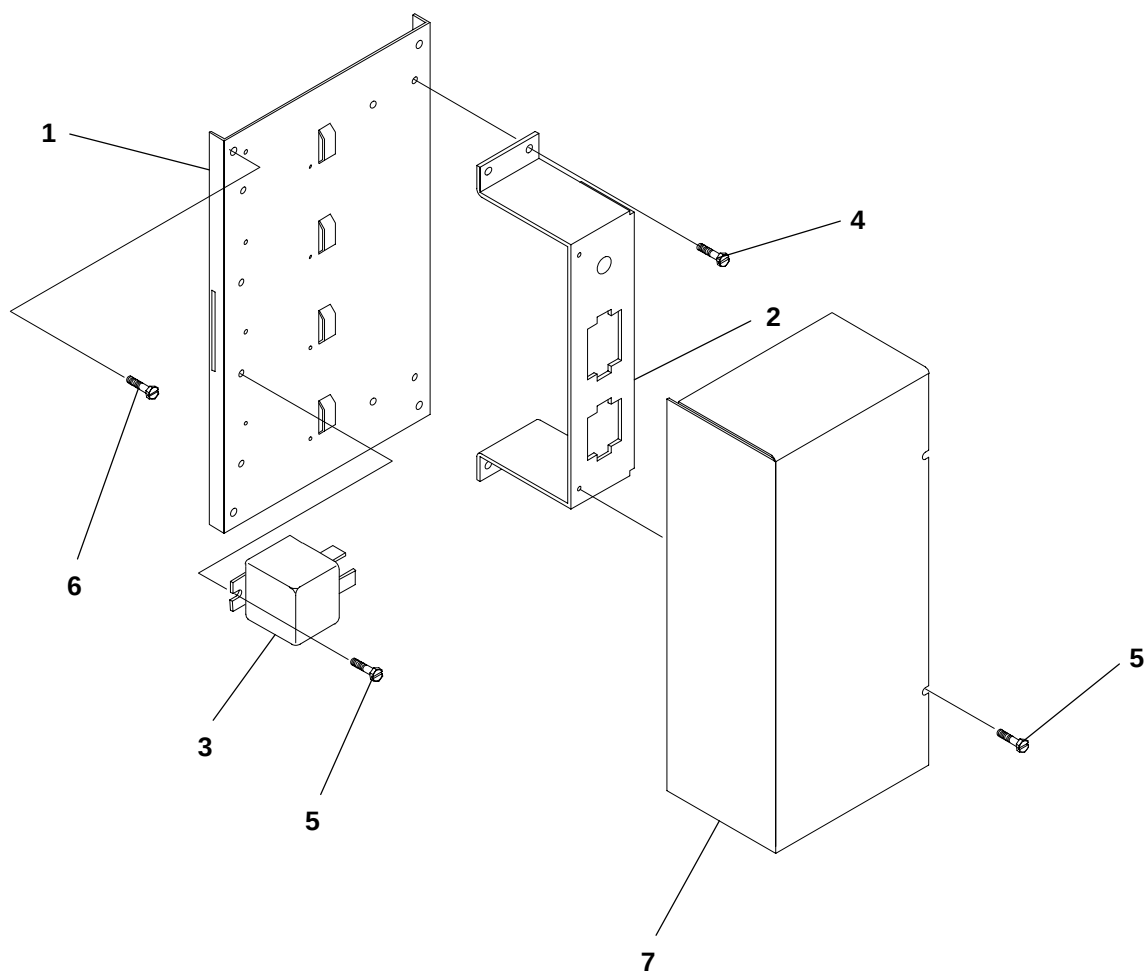
Accessory Control Plate 600 Volt



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)

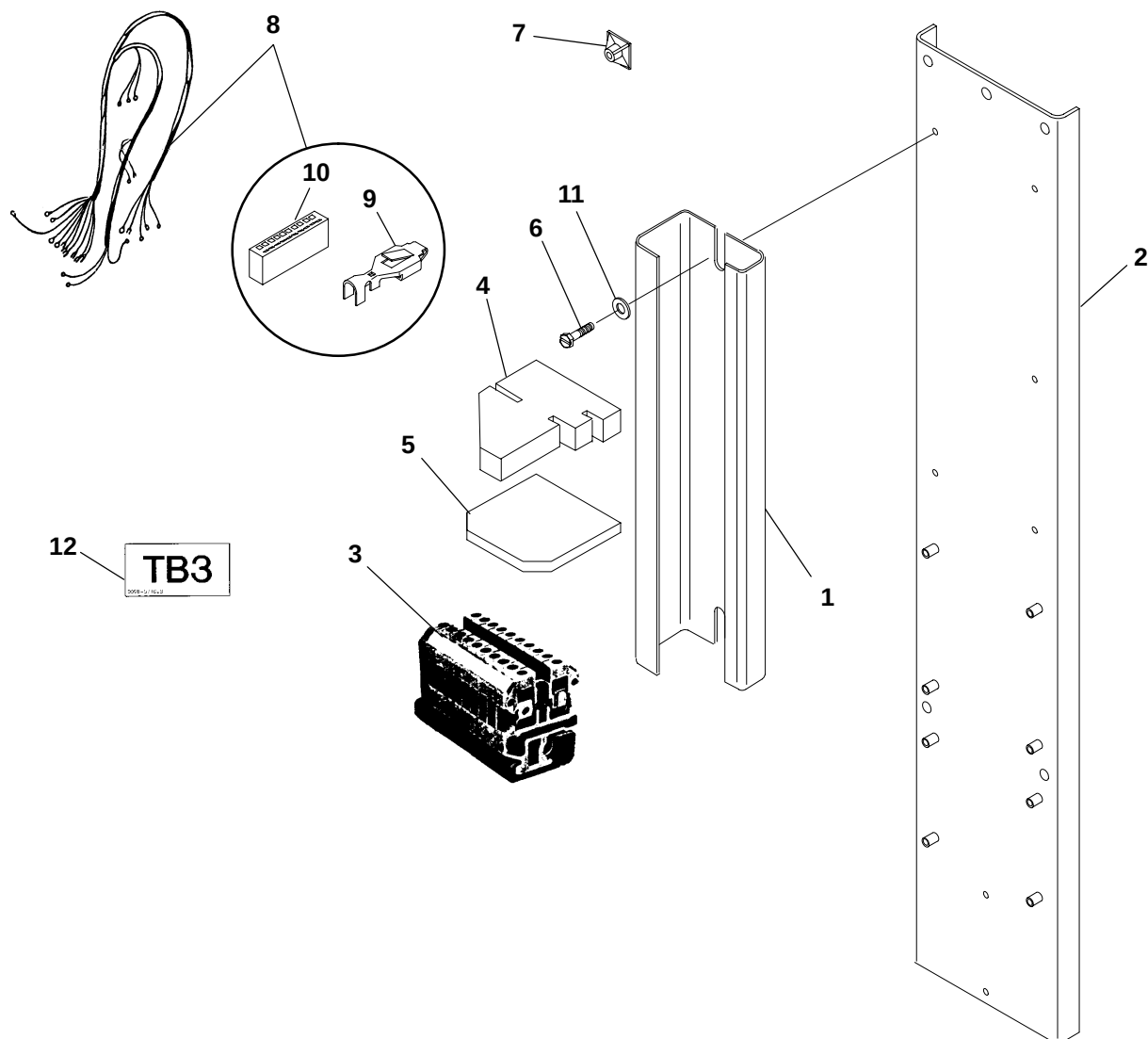
Accessory Control Plate Less than 600 Volt



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

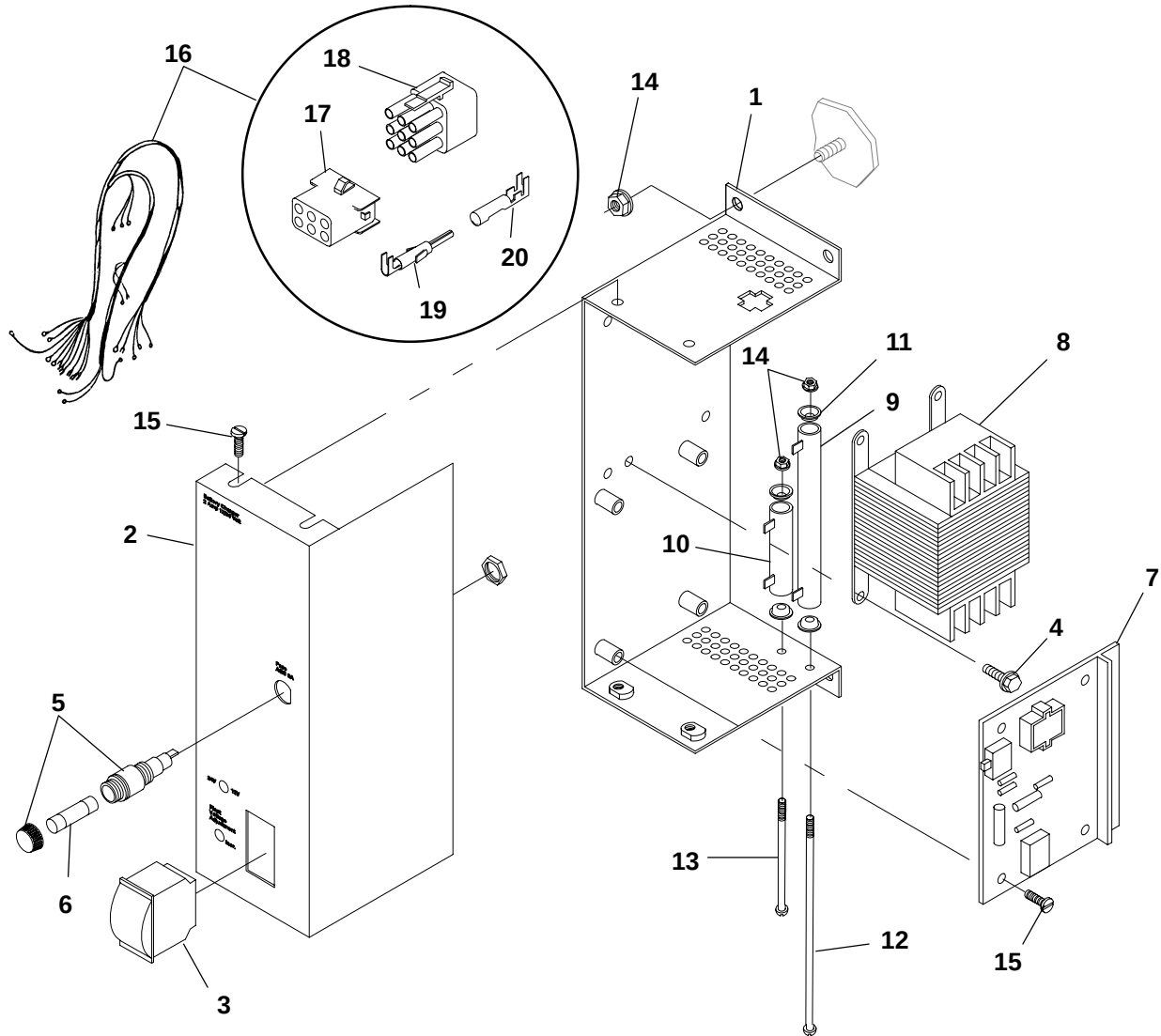


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)
7	332-2420	A/R	Mount,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

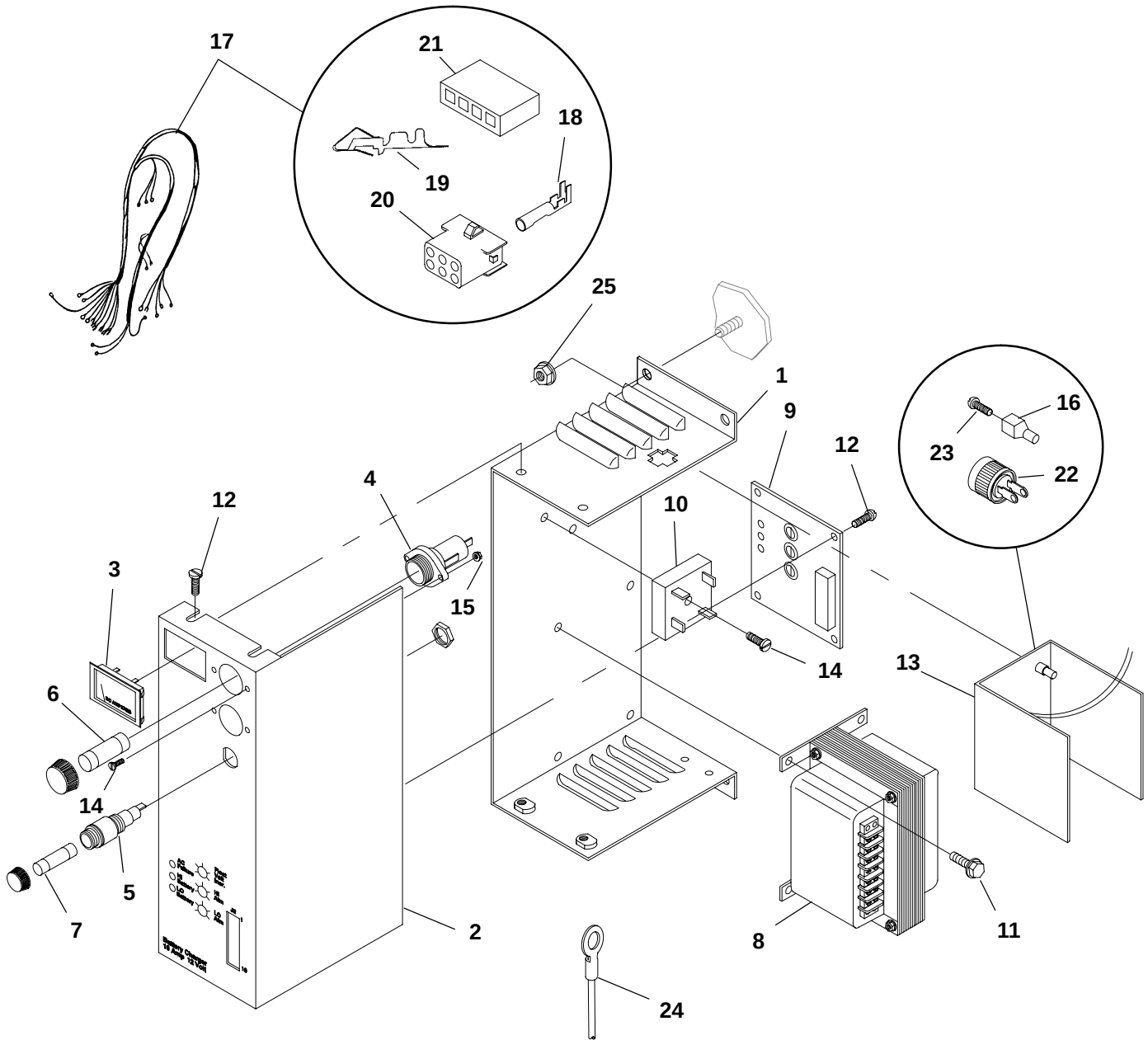
Battery Charger 2 Amp, 12/24 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	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



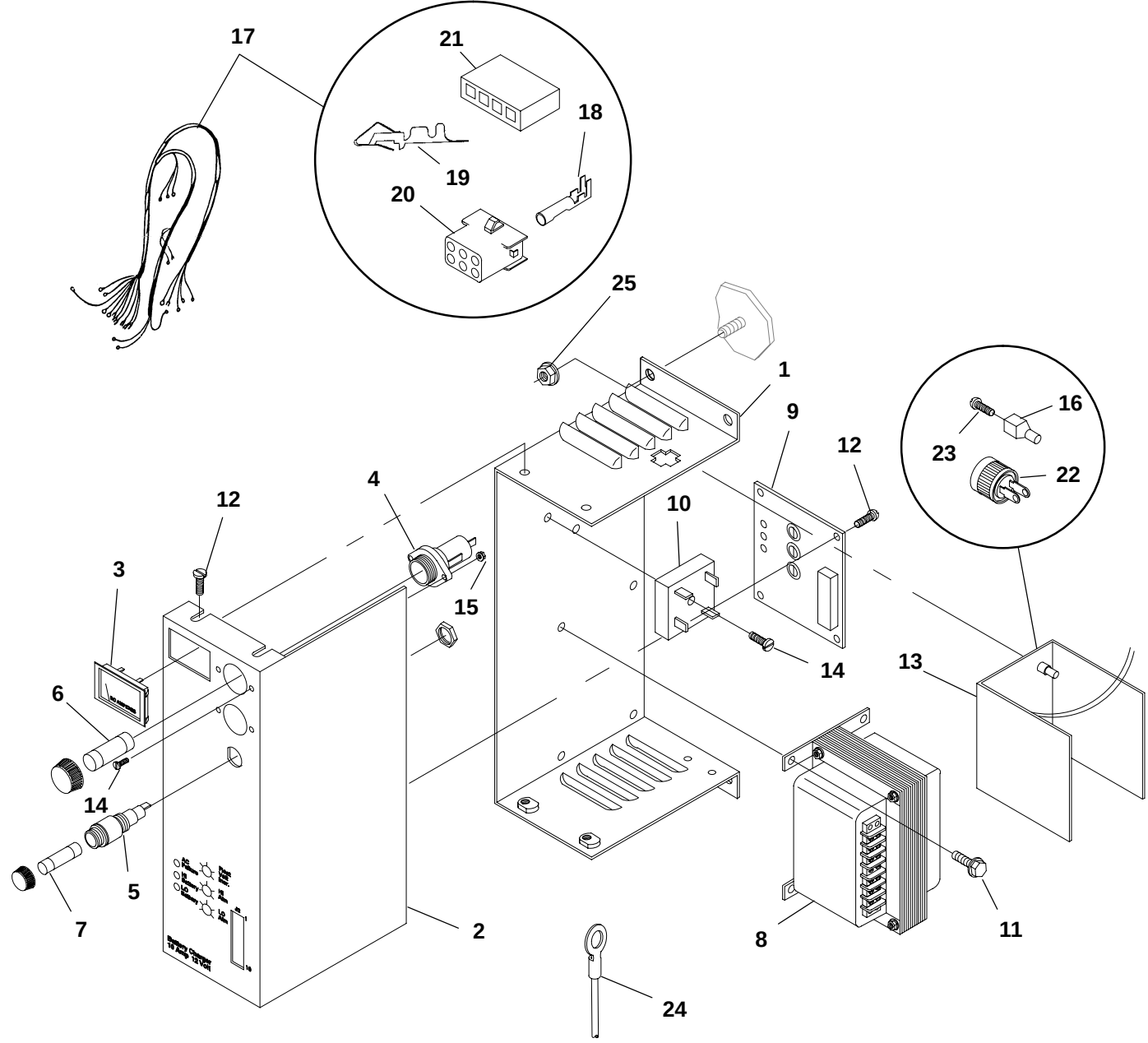
Battery Charger 10 Amp, 12 Volt

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**



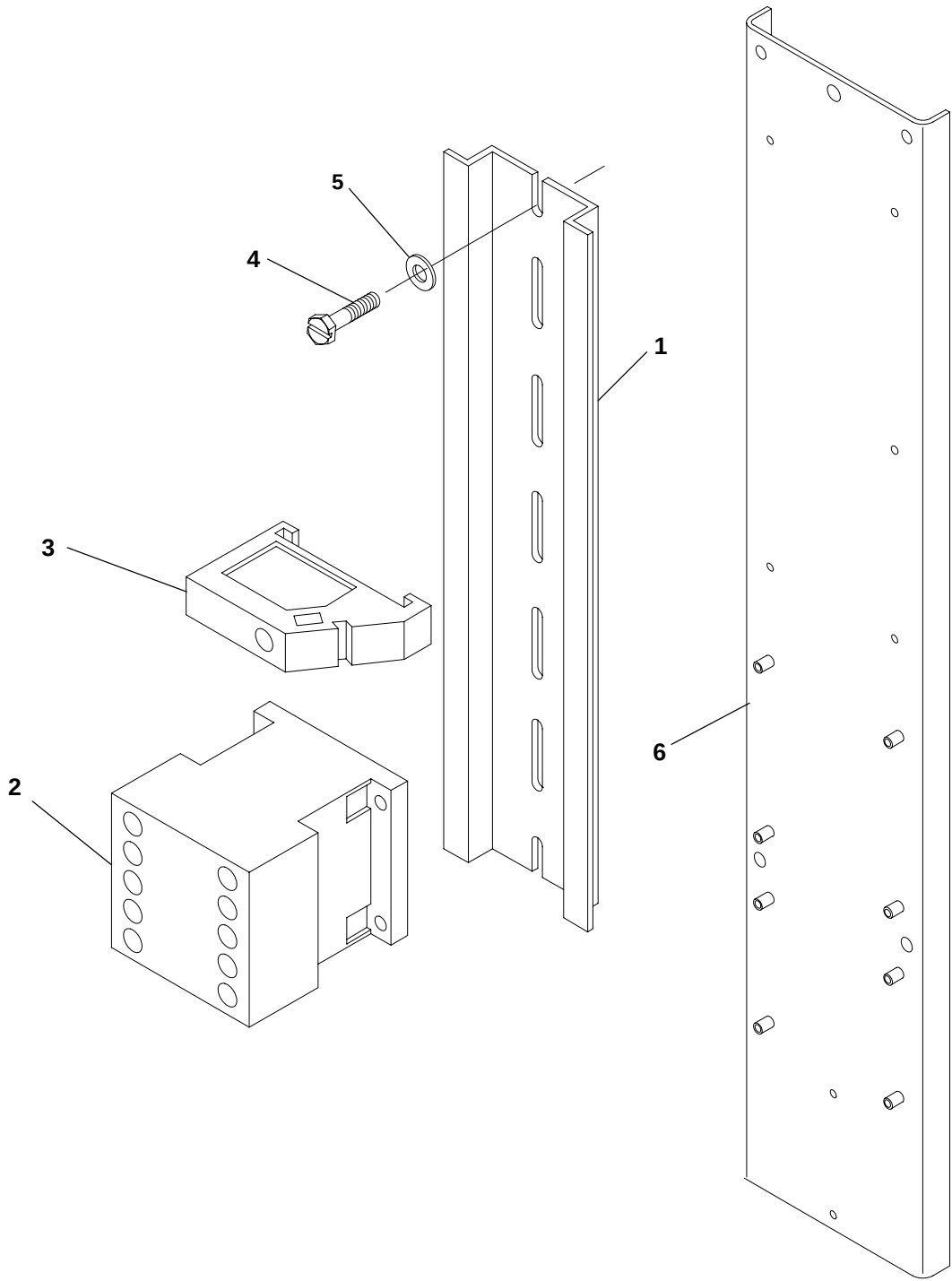
Battery Charger 10 Amp, 24 Volt

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				
			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

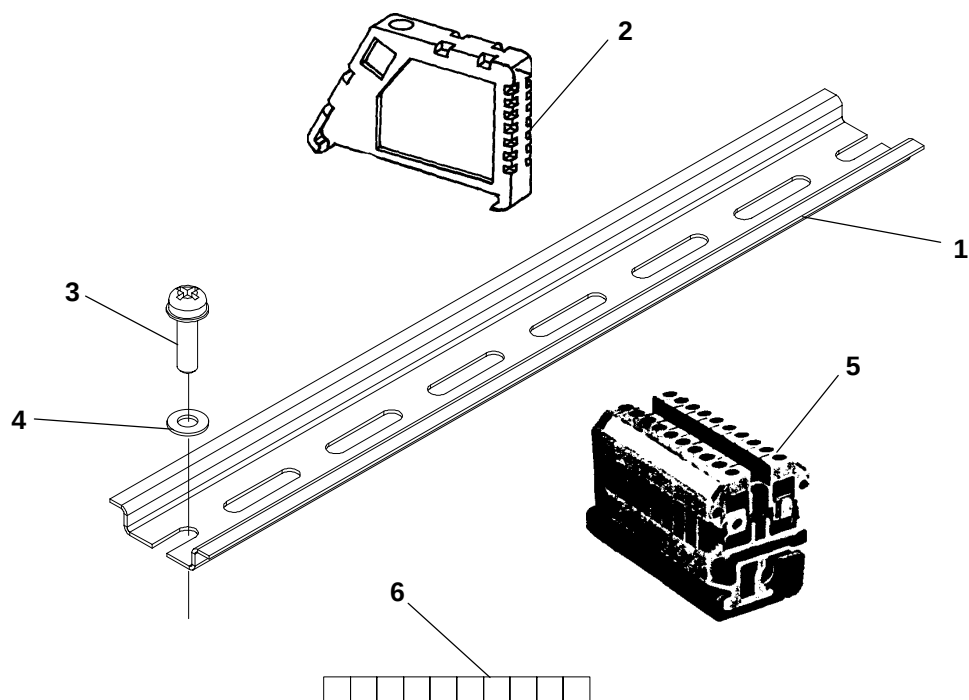
Elevator Signal and Auxiliary Relay



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

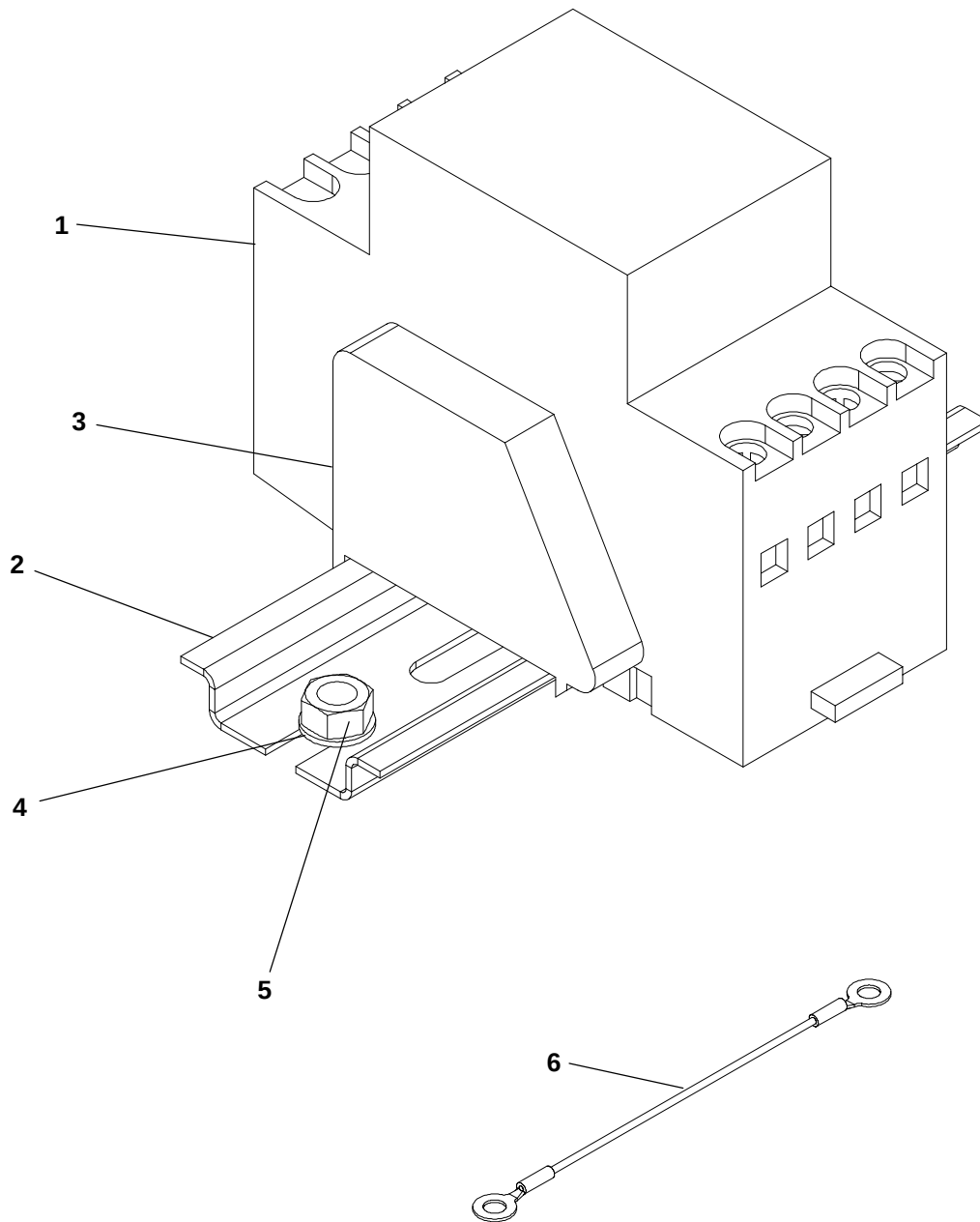
Terminal Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-04	1	Rail, Terminal Block
2	332-2878	2	Bracket, End – Terminal
3	815-0955-03	2	Screw, Cap – Hex Head – Phillips (M4 x 10)
4	526-0003	2	Washer, Flat

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	332-2836-02	3	Block, Terminal – Sectional
6			Tag, Terminal
	332-2842-11	1	1-10
	332-2842-12	1	11-20
	332-2842-13	1	21-30

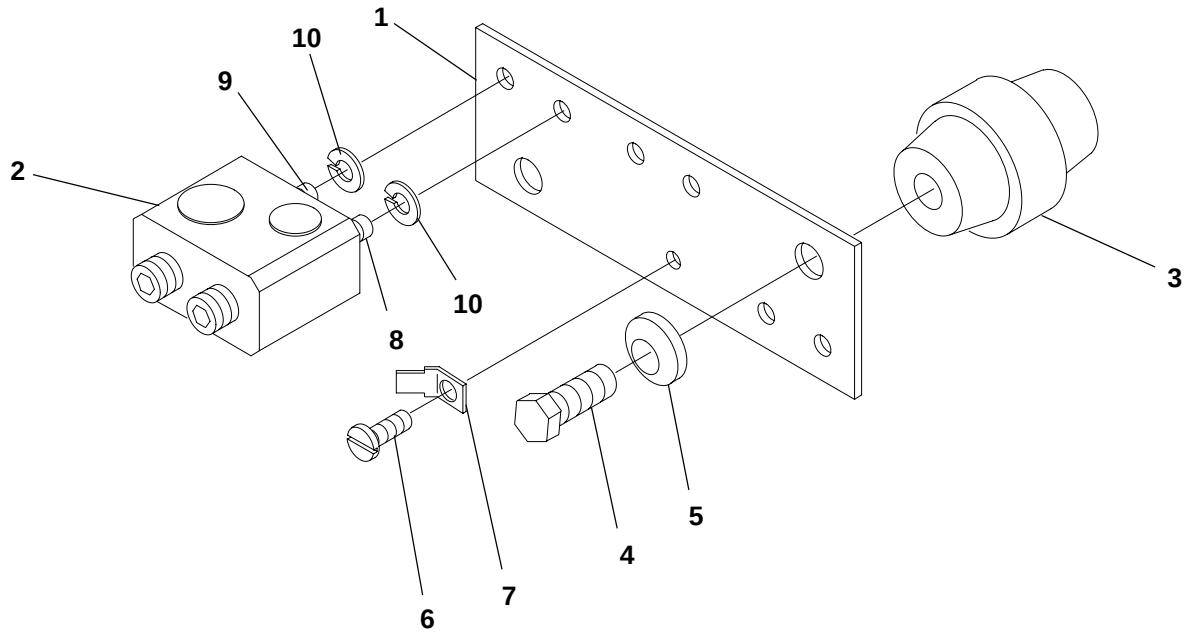
Exercise Clock



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)

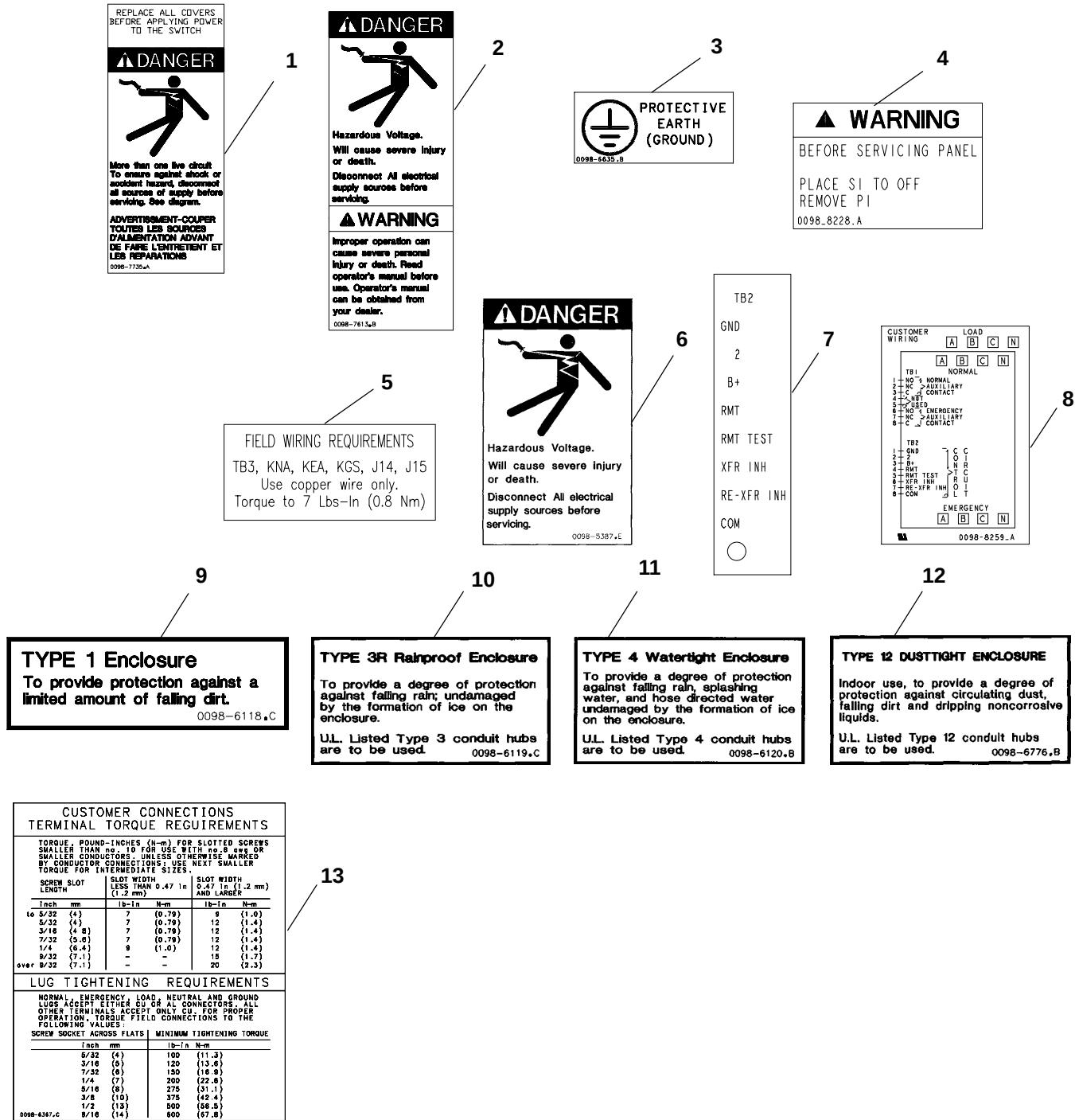
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6			Lead
	226-4925-02	1	“L”
	226-4925-03	1	“N/O”
	226-4925-04	1	“C”
	226-4925-05	1	“N”

Neutral Bar



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2352	1	Bar, Neutral	7	332-2834	1	Tab, Terminal (.25)
2	332-2704	3	Lug, Solderless 300/400 Amp	8	822-0085	3	Screw, Pan Head (1/4-20 x 5/8)
	332-2660	3	600 Amp	9	822-0089	3	Screw, Pan Head 300/400 Amp (1/4-20 x 1-1/4)
3	332-2512	2	Standoff, Insulator		822-0091	3	600 Amp (1/4-20 x 1-1/2)
4	800-0049	2	Screw, Cap - Hex Head (3/8-16 x 7/8)	10	850-0039	6	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)				

Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7735	1	Label, Danger	8	098-8259	1	Label, Information
2	098-7613	1	Label, Danger/Warning	9	098-6118	1	Label, Cabinet - Type 1
3	098-6635	1	Label, Ground	10	098-6119	1	Label, Cabinet - Type 3R
4	098-8228	1	Label, Warning	11	098-6120	1	Label, Cabinet - Type 4
5	098-7621	1	Label, Torque	12	098-6776	1	Label, Cabinet - Type 12
6	098-5387	1	Label, Danger	13	098-6367	1	Label, Torque
7	098-8257	1	Label, Information				

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