

Parts Manual

Transfer Switch

150/225/250 Amps

OTPCSEB (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 OTPCSE 150/225/250 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	M003	Terminal Block – 30 Points
A041	One Phase – 2 or 3 wire	M007	Load Shed – From Emergency
A042	Three Phase – 3 or 4 wire	M017	Security – Front Panel
A044	Frequency – 60 Hz	M018	Display – Digital
A045	Frequency – 50 Hz	M022	Monitoring – Load
B001	Cabinet – Type 1	M023	Module – Relay Signal
B002	Cabinet – Type 3R	M031	Interface – Comms Network
B010	Cabinet – Type 12	N020	Terminal Block – Retransfer Inhibit
C023	Control – Level 1	R020	Voltage – 120
C024	Control – Level 2	R021	Voltage – 208
D009	Meters – Bar Graph Display	R022	Voltage – 220
K001	Battery Charger – 2 Amp, 12/24V	R023	Voltage – 240
KB59	Battery Charger – 15 Amp, 12V	R024	Voltage – 380
KB60	Battery Charger – 12 Amp, 24V	R025	Voltage – 416
L101	Auxiliary Relay – 24 VDC Coil	R026	Voltage – 480
L102	Auxiliary Relay – Emergency Position – 24 VDC	R035	Voltage – 440
L103	Auxiliary Relay – Normal Position – 24 VDC	S043	UL Listed
L201	Auxiliary Relay – 12 VDC Coil		

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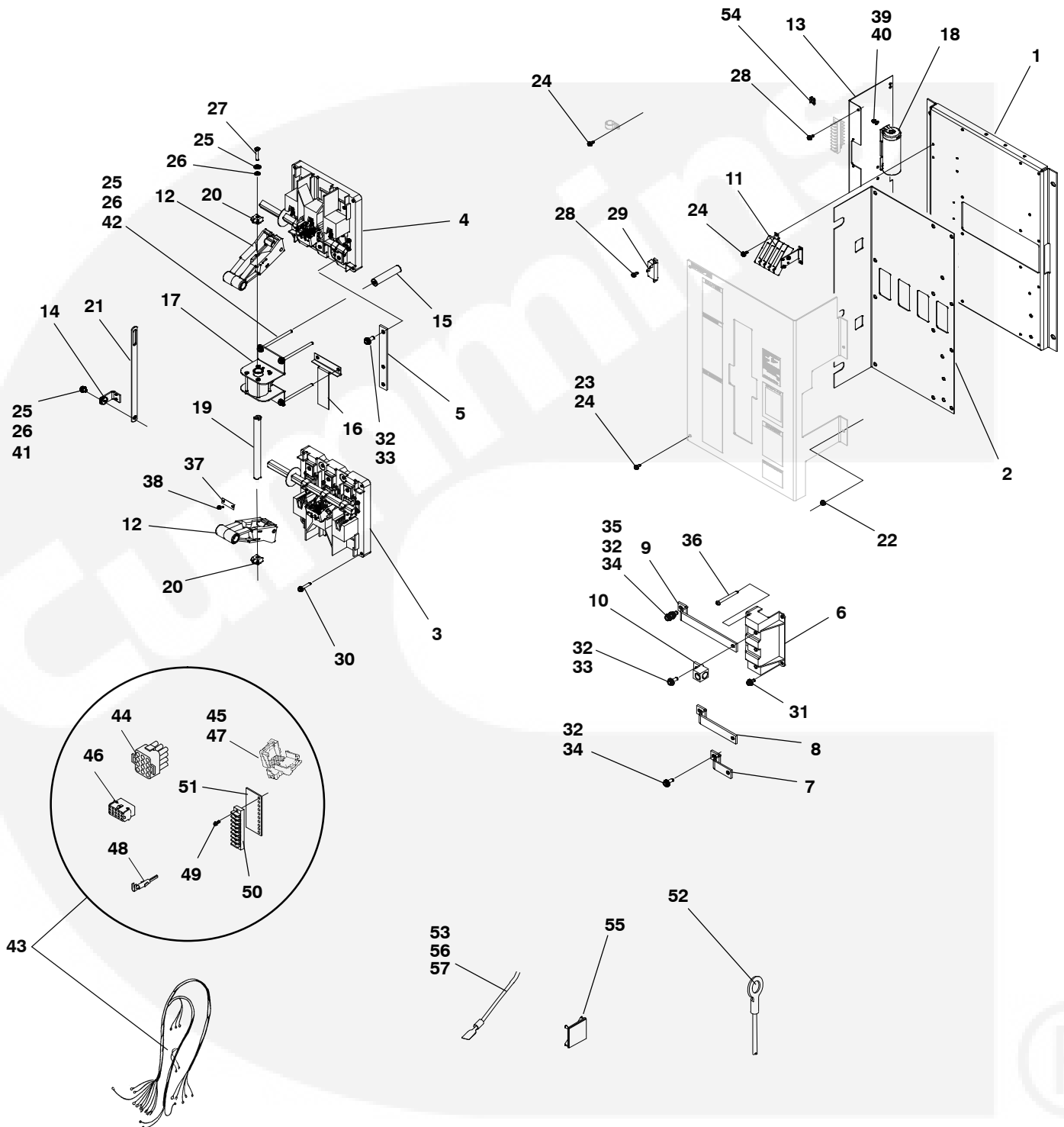
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Abbreviations

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	Unified Coarse Thread
LPG	Liquid Petroleum Gas	UNF	Unified Fine Thread
LT	Left	VAC	Volts Alternating Current
M(meter number)	Meter	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

Transfer Switch 3-Pole Front Connect

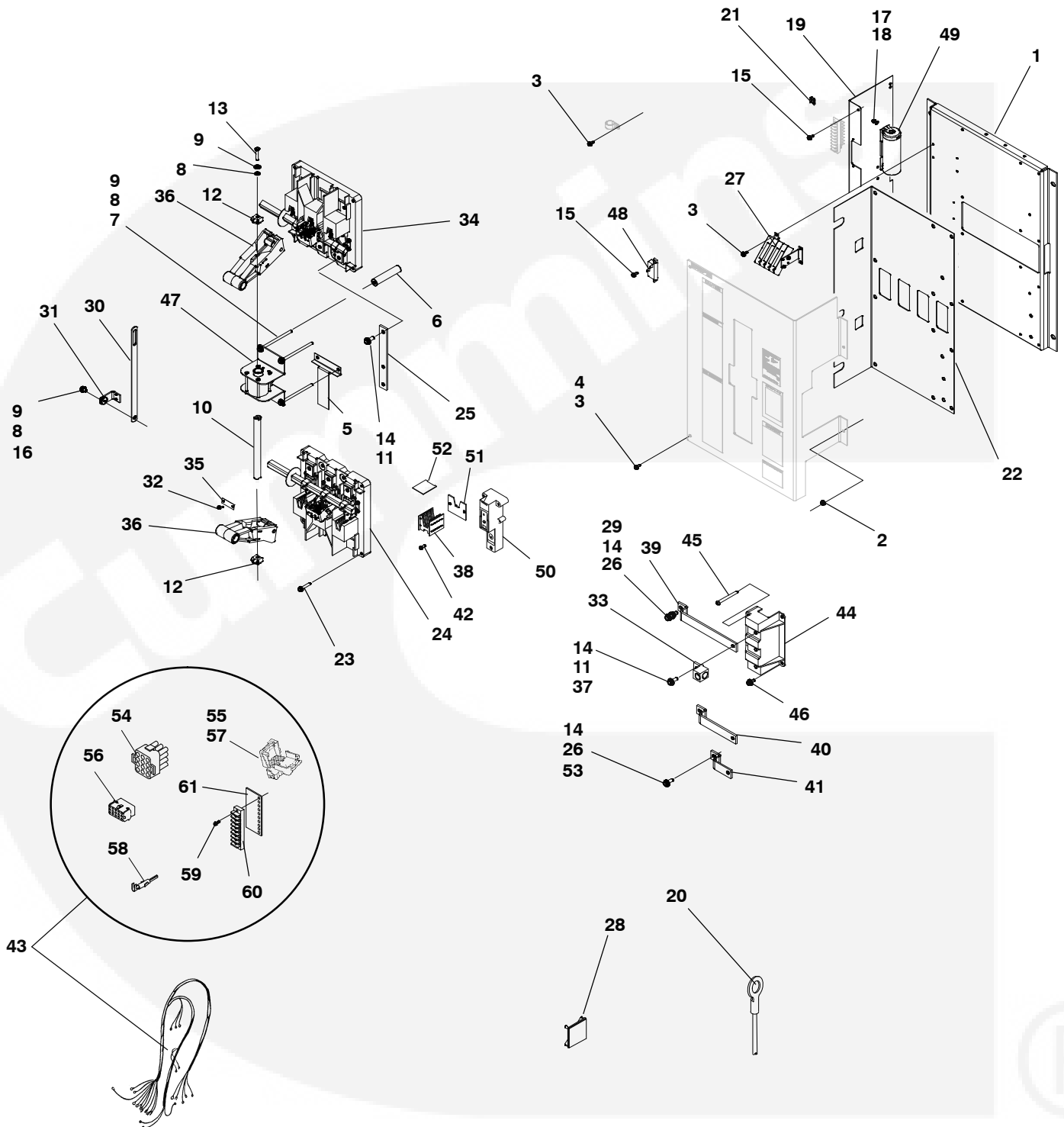


Transfer Switch 3-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3574	1	Base, Mounting	29			Breaker, Circuit
2	306-3575	1	Barrier, Mounting Base		320-0609	1	115 VAC
3	306-5231-02	1	Block and Crossbar Assembly - Emergency		320-0608	1	208/220/240 VAC
4	306-5231-01	1	Block and Crossbar Assembly		320-0606	2	380/416 VAC
5	337-2365	3	Strap, Jumper		320-0606	2	440/480 VAC
6	306-3573	1	Block, Lug - Mounting	30	815-0667	6	Screw, Hex Head (1/4-20 x 1.25)
7	337-2410-03	1	Strap, Load	31	815-0261	2	Screw, Hex Head - Thread Forming (1/4-20 x .50)
8	337-2410-02	1	Strap, Load	32	851-0028	10	Washer, Spring (5/16)
9	337-2410-01	1	Strap, Load	33	800-0027	6	Screw, Cap - Hex Head (5/16-18 x .88)
10	332-3039	3	Lug, Solderless	34	800-0030	4	Screw, Cap - Hex Head (5/16-18 x 1.25)
11	306-4749	2	Contact, Auxiliary	35	862-0015	2	Nut, Hex - Heavy (5/16-18)
12	306-1842-S0	2	Handle, Actuator	36	815-0656	2	Screw, Machine - Round Head (1/4-20 x 2.75)
13	306-3418	1	Bracket, Terminal	37	306-1396	2	Plate, Handle - Mounting
14	306-0508	2	Arm, Interlock	38	815-0446	8	Screw, Cross Recessed - Thread Cutting (#8-32 x .50)
15	306-3483	4	Spacer, Actuator	39	815-0029	A/R	Screw, Machine - Flat Head - Cross Recessed (#10-32 x .50)
16	306-2340	2	Handle, Barrier	40	870-0131	A/R	Nut, Hex - W/ET (#10-32)
17			Actuator, Linear	41	800-0003	2	Screw, Cap - Hex Head (1/4-20 x .50)
	306-3471-03	1	208/220/240 VAC	42	800-0021	4	Screw, Cap - Hex Head (1/4-20 x 4.50)
	306-3471-05	1	380/416 VAC	43	338-4897	1	Harness, Switch (Includes the Parts Marked ^)
	306-3471-06	1	440/480 VAC	44	323-1314	1	^ Plug, Connector (12 Place)
18			Capacitor	45	323-1316	2	^ Relief, Strain (12 Place)
	312-0204-S0	1	208/220/240 VAC	46	323-1156	1	^ Plug, Connector (15 Place)
	312-0203-S0	2	380/416 VAC	47	323-1158	2	^ Relief, Strain (15 Place)
	312-0203-S0	2	440/480 VAC	48	323-1199	23	^ Pin, Contact
19	306-3473	1	Shaft, Actuator	49	815-0937	4	^ Screw, Pan Head - Cross Recessed (#6-32 x 1/2)
20	306-3400-02	2	Rod, End	50	332-2832	2	^ Block, Terminal (8 Place)
21	306-3482	1	Bar, Interlock	51	332-2903	2	^ Marker, Strip
22	870-0320	2	Nut, Hex - Whiz Loc (#10-32)	52	226-3380	1	Lead (380/416/440/480 VAC)
23	526-0008	2	Washer, Flat (#10)	53	226-4796-03	1	Lead (Neutral)
24	815-0652	13	Screw, Slotted - Hex Head (#10-32 x .50)	54	332-2605	1	Jumper, Terminal
25	526-0018	8	Washer, Flat (1/4)	55	332-2420	A/R	Mount, Cable Tie
26	850-0040	8	Washer, Lock - Split (1/4)	56	226-4796-05	1	Lead (NN)
27	114-0023	2	Screw, Cap - Hex Head (1/4-20 x 1.25)	57	226-4796-06	1	Lead (EN)
28	815-0651	6	Screw, Pan Head - Cross Recessed - W/ET (#6-32 x .75)				

^ Parts Included in 338-4897 Wiring Harness.

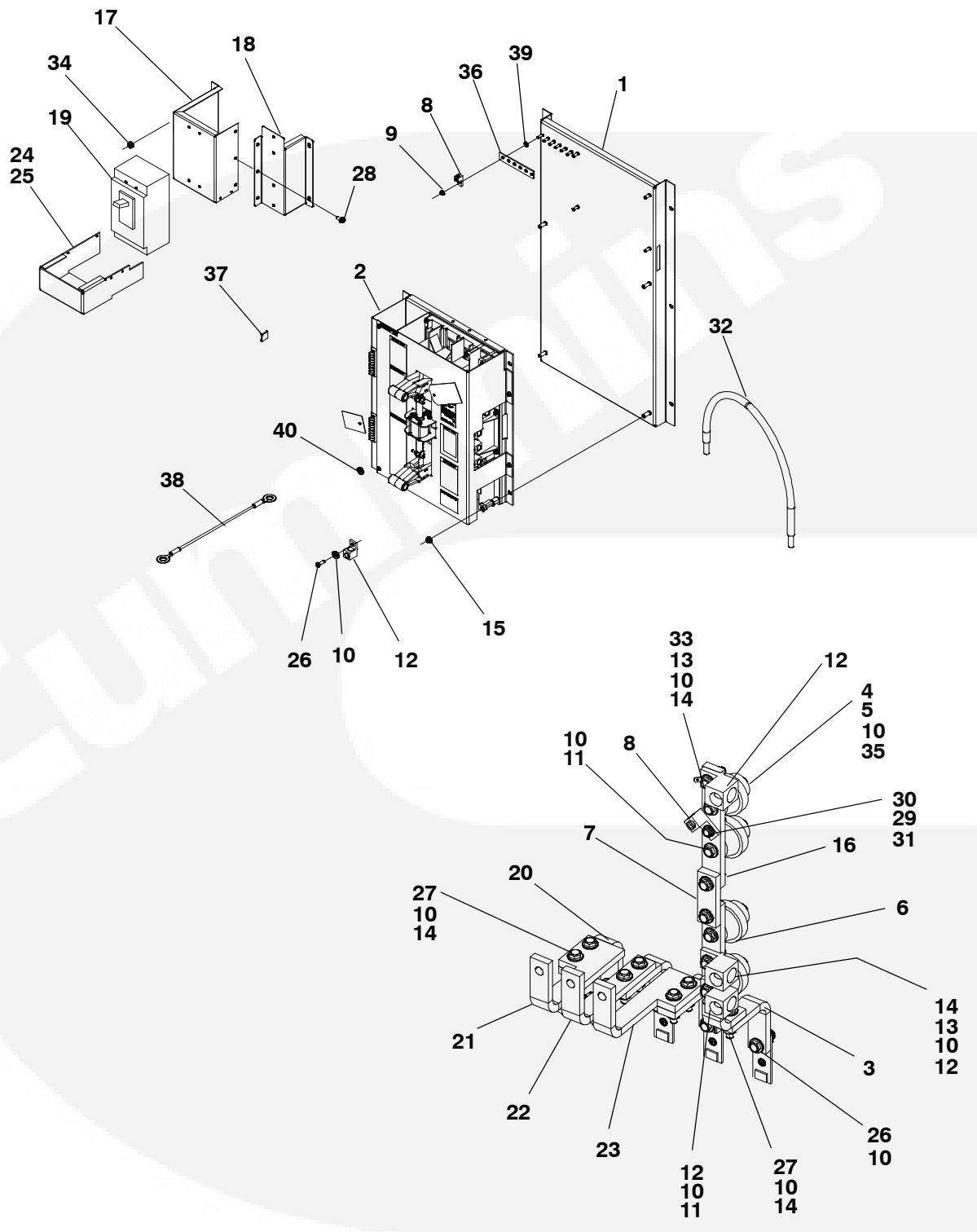
Transfer Switch 4-Pole Front Connect



Transfer Switch 4-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3574	1	Base, Mounting	35	306-1396	2	Plate, Handle – Mounting
2	870-0320	2	Nut, Hex – Whiz Loc (#10-32)	36	306-1842-S0	2	Handle, Actuator
3	815-0652	14	Screw, Slotted – Hex Head (#10-32 x .50)	37	800-0028	1	Screw, Cap – Hex Head (5/16-18 x 1.00)
4	526-0008	3	Washer, Flat (#10)	38	306-4854	2	Chute, Arc
5	306-2340	2	Handle, Barrier	39	337-2410-01	1	Strap, Load
6	306-3483	4	Spacer, Actuator	40	337-2410-02	1	Strap, Load
7	800-0021	4	Screw, Cap – Hex Head (1/4-20 x 4.50)	41	337-2410-03	1	Strap, Load
8	850-0040	8	Washer, Lock – Split (1/4)	42	815-0527	4	Screw, Pan Head – Thread Cutting (#10 x .50)
9	526-0018	8	Washer, Flat (1/4)	43	338-4897	1	Harness, Switch (Includes the Parts Marked ^)
10	306-3473	1	Shaft, Actuator	44	306-3573	1	Block, Lug – Mounting
11	800-0027	8	Screw, Cap – Hex Head (5/16-18 x .88)	45	815-0656	6	Screw, Machine – Round Head (1/4-20 x 2.75)
12	306-3400-02	2	Rod, End	46	815-0290	4	Screw, Hex Washer Head – Thread Forming (1/4-20 x .62)
13	114-0023	2	Screw, Cap – Hex Head (1/4-20 x 1.25)	47			Actuator, Linear
14	851-0028	15	Washer, Spring (5/16)		306-3471-03	1	208/220/240 VAC
15	815-0651	6	Screw, Pan Head – Cross Recessed – W/ET (#6-32 x .75)		306-3471-05	1	380/416 VAC
16	800-0003	2	Screw, Cap – Hex Head (1/4-20 x .50)		306-3471-06	1	440/480 VAC
17	815-0029	A/R	Screw, Machine – Flat Head – Cross Recessed (#10-32 x .50)	48			Breaker, Circuit
18	870-0131	A/R	Nut, Hex – W/ET (#10-32)		320-0609	1	115 VAC
19	306-3418	1	Bracket, Terminal		320-0608	1	208/220/240 VAC
20	226-3380	1	Lead (380/416/440/480 VAC)		320-0606	2	380/416 VAC
21	332-2605	1	Jumper, Terminal		320-0606	2	440/480 VAC
22	306-3575	1	Barrier, Mounting Base	49			Capacitor
23	815-0667	4	Screw, Hex Head (1/4-20 x 1.25)		312-0204-S0	1	208/220/240 VAC
24	306-5232-02	1	Block and Crossbar Assembly – Emergency		312-0203-S0	2	380/416 VAC
25	337-2365	4	Strap, Jumper		312-0203-S0	2	440/480 VAC
26	800-0030	3	Screw, Cap – Hex Head (5/16-18 x 1.25)	50	306-5233	2	Block Assembly
27	306-4749	2	Contact, Auxiliary	51	306-3576	2	Cover, Arc Chute
28	332-2420	A/R	Mount, Cable Tie	52	306-2352	2	Insulator, Arc Chute
29	862-0015	2	Nut, Hex – Heavy (5/16-18)	53	821-0016	1	Screw, Lock Washer Head (5/16-18 x .75)
30	306-3482	1	Bar, Interlock	54	323-1314	1	^ Plug, Connector (12 Place)
31	306-0508	2	Arm, Interlock	55	323-1316	2	^ Relief, Strain (12 Place)
32	815-0446	8	Screw, Cross Recessed – Thread Cutting (#8-32 x .50)	56	323-1156	1	^ Plug, Connector (15 Place)
33	332-3039	4	Lug, Solderless	57	323-1158	2	^ Relief, Strain (15 Place)
34	306-5232-01	1	Block and Crossbar Assembly	58	323-1199	23	^ Pin, Contact
				59	815-0937	4	^ Screw, Pan Head – Cross Recessed (#6-32 x 1/2)
				60	332-2832	2	^ Block, Terminal (8 Place)
				61	332-2903	2	^ Marker, Strip
				^ Parts Included in 338-4897 Wiring Harness.			

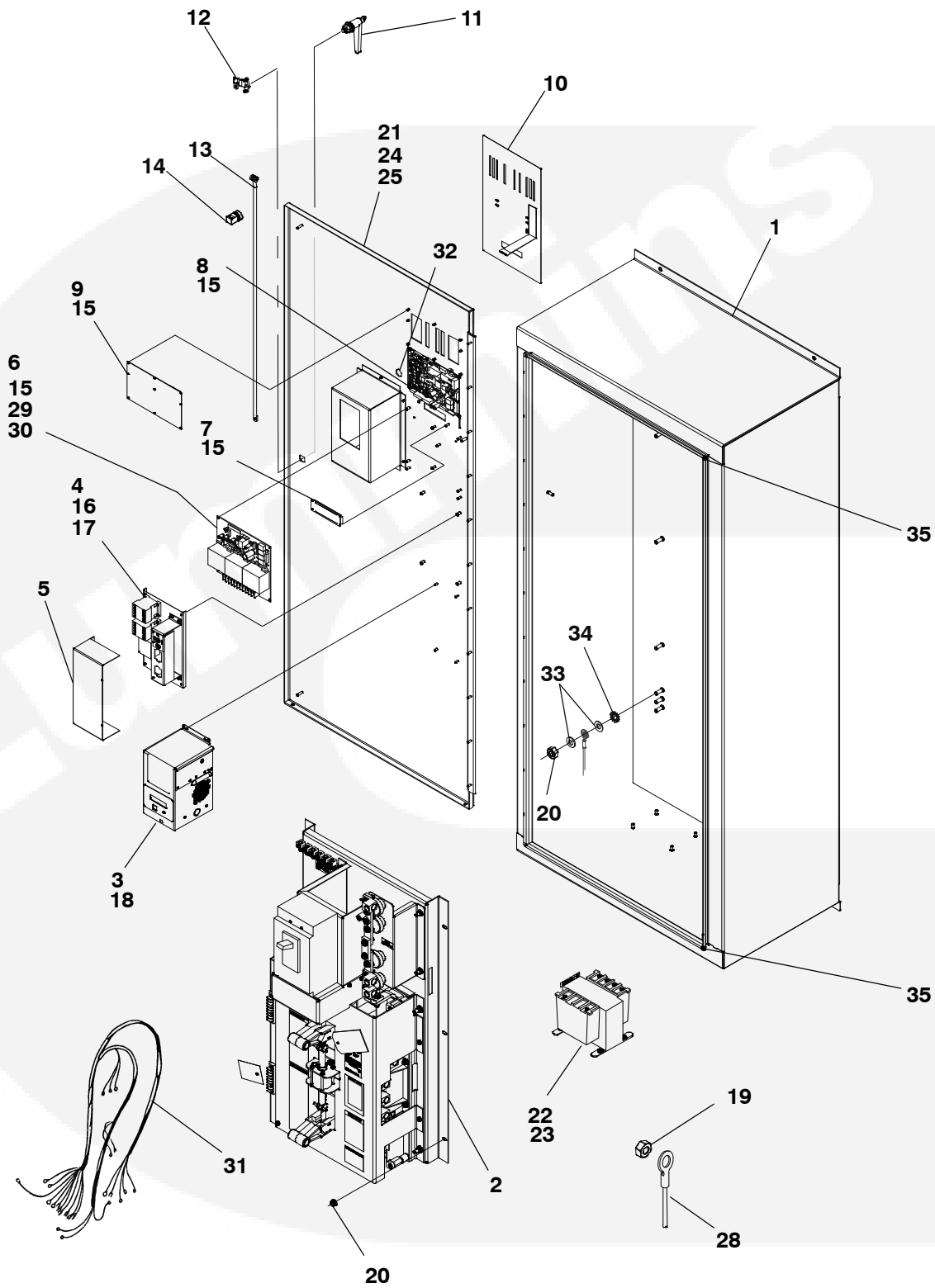
Transfer Switch



Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-6590-02	1	Plate, Mounting	20	337-3834	3	Bar, Bus
2			Switch, Transfer	21	337-3906	1	Bar, Bus
	306-5200	1	3-Pole (See Page 7 for Components)	22	337-3907	1	Bar, Bus
	306-5202	1	4-Pole (See Page 9 for Components)	23	337-3910	1	Bar, Bus
3	337-3909	1	Bar, Bus	24	306-5241	1	Barrier, Phase
4	853-0016	8	Washer, Lock - W/ET (5/16)	25	815-0652	4	Screw, Hex Head - Slotted
5	332-2744-03	4	Standoff, Insulator	26			Screw, Cap - Hex Head (5/16-18 x .88)
6	337-3908	1	Bar, Bus		800-0027	6	3-Pole
7	337-3904	1	Bar, Bus		800-0027	8	4-Pole
8	332-3647	7	Lug, Solderless	27			Screw, Cap - Hex Head (5/16-18 x 1.5)
9	870-0212	6	Nut, Hex - Whiz Loc (1/4-20)		800-0031	6	3-Pole
10			Washer, Spring (5/16)		800-0031	7	4-Pole
	851-0028	34	3-Pole	28	821-0009	3	Screw, Locking - Hex Head (1/4-20 x 3/8)
	851-0028	38	4-Pole				
11	800-0026	4	Screw, Cap - Hex Head (5/16-18 x .75)	29	851-0027	2	Washer, Spring (1/4)
12			Lug, Solderless	30	114-0023	1	Screw, Cap - Hex Head (1/4-20 x 1.25)
	332-3039	6	3-Pole	31	862-0001	1	Nut, Hex - Heavy (1/4-20)
	332-3039	7	4-Pole	32	334-2353	1	Cable, Shielded
13	800-0030	4	Screw, Cap - Hex Head (5/16-18 x 1.25)	33	332-2463	8	Ring, Terminal
14			Nut, Hex - Heavy (5/16-18)	34	870-2222	4	Nut, Hex (5/16-18)
	862-0015	10	3-Pole	35	800-0045	4	Screw, Cap - Hex Head (5/16-18 x 3/8)
	862-0015	11	4-Pole	36	337-4085	1	Bar, Bus - Ground
15	870-0281	4	Nut, Hex - Whiz Lok (3/8-16)	37	332-2420	2	Mount, Cable Tie
16	337-3905	1	Bar, Bus	38	226-4990-01	1	Lead
17	319-6591-02	1	Bracket, Circuit Breaker	39	856-0006	6	Washer, Lock - W/EIT (1/4)
18	319-6356-02	1	Bracket, Circuit Breaker	40	526-0030	2	Washer, Flat (3/8)
19			Breaker, Circuit (See Page 19 for Components)				

Control NEMA 1

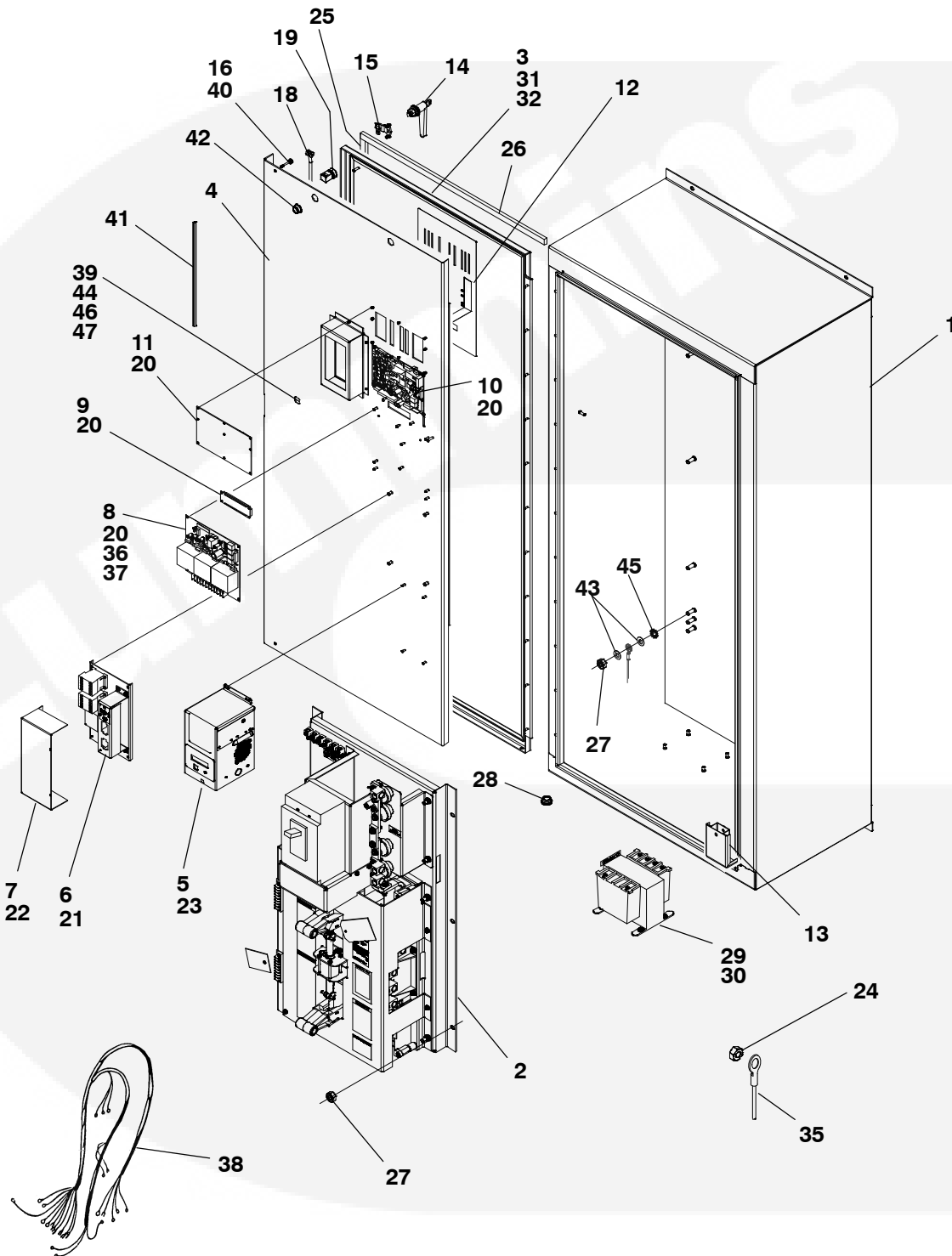


Control NEMA 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3897-03	1	Box, Control	11	406-0613	1	Handle, Keyed
2			Switch, Transfer (See Page 11 for Components)	12	306-3525	1	Latch, Cam (3 Point)
3			Charger, Battery (See Pages 16 and 17)	13	306-3526-04	2	Rod, Roller
4			Relay - Assembly (See Page 18 for Components)	14	306-3467	2	Rod, Guide
5	319-3942-02	1	Shield, Relay Plate	15	815-0959-02	21	Screw, Cross Recessed - Pan Head - W/ET (M3 x 0.5 x 7)
6			Board, Printed Circuit - Power Module	16	815-0960-03	4	Screw, Cross Recessed - Pan Head W/ET (M4 x 0.7 x 10)
			Level 1 Control	17	815-0792-02	2	Screw, Cross Recessed - Pan Head (M4 x 0.7 x 8)
	300-5148-01	1	120 VAC	18	860-2006	4	Nut, Hex (M5 x 0.8)
	300-5148-02	1	208, 220, 240, 440, 480 VAC	19	870-2054	1	Nut, Lock (M6 x 1)
	300-5148-04	1	190, 380, 416 VAC	20	870-0281	7	Nut, Hex - Whiz Lok (3/8-16)
			Level 2 Control	21	319-6703-02	1	Door, Transfer Switch
	300-5149-05	1	120 VAC	22	315-0661	1	Transformer, Power
	300-5149-06	1	208, 220, 240, 440, 480 VAC	23	870-0212	4	Nut, Hex - Whiz Lok (1/4-20)
	300-5149-08	1	190, 380, 416 VAC	24	508-0233	11	Washer, Rubber
7	300-5151	1	Display, Digital	25	870-0131	11	Nut - W/ET (#10-32)
8			Board, Printed Circuit - Digital	26	323-1156	1	Plug, Circuit (Not Shown)
	300-5146-01	1	Level 1 Control	27	226-4798	1	Lead - ATS Sensing (Not Shown)
	300-5147-04	1	Level 2 Control	28	226-4916-01	1	Lead
9	300-5180	1	Board, Printed Circuit - Bargraph	29	306-4523	1	Cover, Printed Circuit Board
10			Membrane, Panel	30	870-2216	4	Standoff, Male Snap
			Level 1 Control	31			Harness, Main
	300-5391	1	Without Digital Display		338-3856-01	1	Level 1 Control
	300-5392	1	With Digital Display		338-3857-01	1	Level 2 Control
			Level 2 Control	32	517-0137	5	Plug, Hole
	300-5392	1	Without Meters-Bar Graph Display	33	526-0030	2	Washer, Flat (3/8)
	300-5393	1	With Meters-Bar Graph Display	34	856-0010	1	Washer, Lock - W/EIT (3/8)
				35	508-0231	2	Bumper



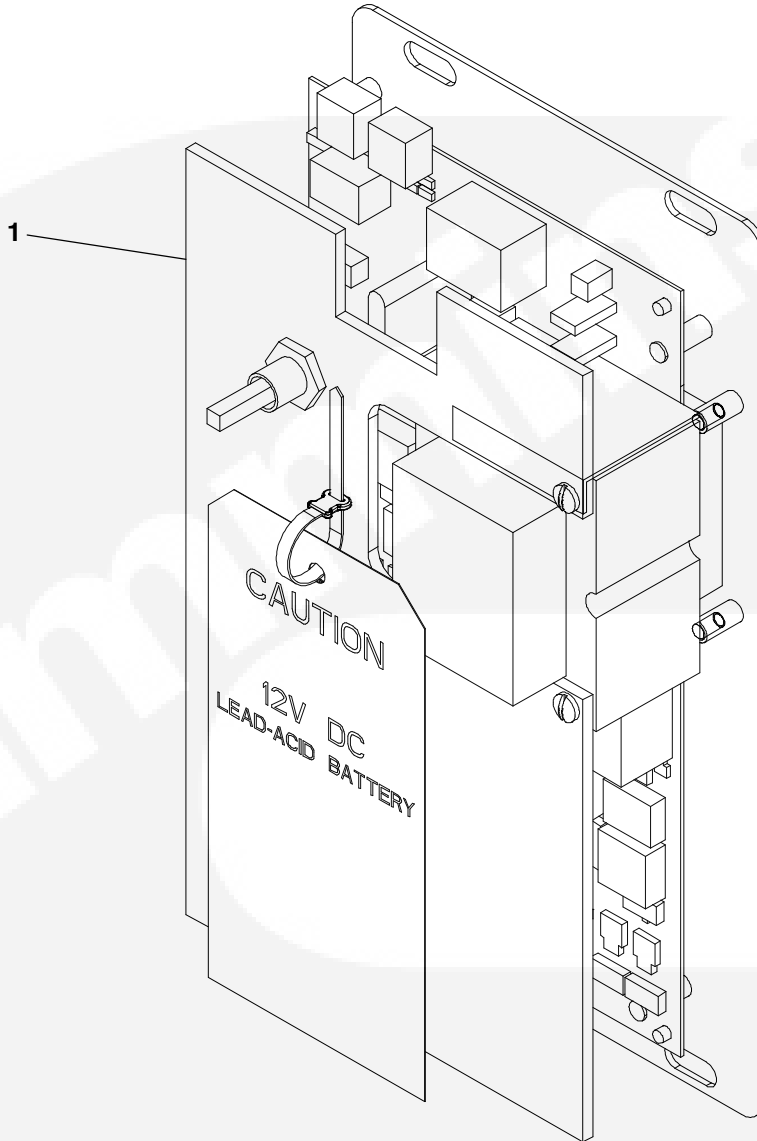
Control Type 3R and 12



Control Type 3R and 12

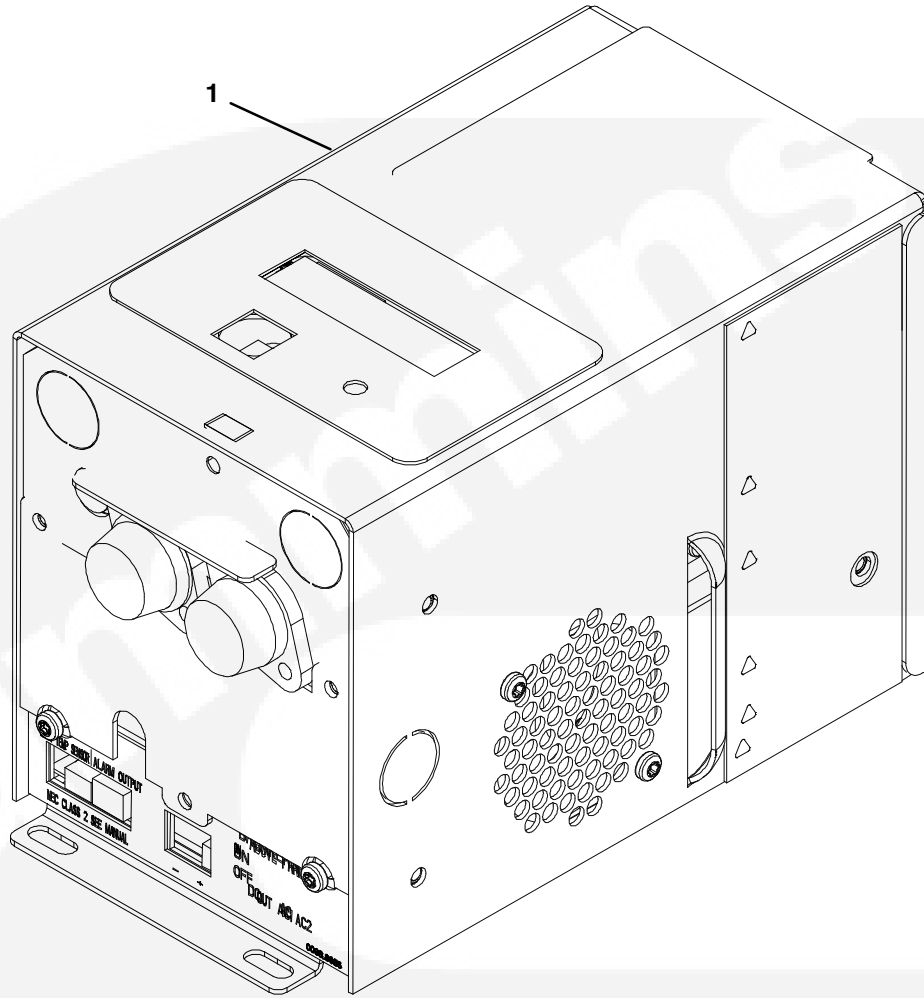
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Control	15	306-3525	1	Latch, Cam (3 Point)
	319-3897-03	1	Type 3R	16	406-1146	2	Fastener, Panel
	319-3897-04	1	Type 12	17	870-2222	4	Nut, Hex – Flange (5/16-18) (Not Shown)
2		1	Switch, Transfer (See Page 11 for Components)	18	306-3526-04	2	Rod, Roller
3	319-6522-02	1	Door, Transfer Switch	19	306-3467	2	Rod, Guide
4	319-6521-02	1	Door, Transfer Switch	20	815-0959-02	21	Screw, Cross Recessed – Pan Head – W/ET (M3 x 0.5 x 7)
5			Charger, Battery (See Pages 16 and 17)	21	815-0960-03	4	Screw, Cross Recessed – Pan Head W/ET (M4 x 0.7 x 10)
6		1	Relay – Assembly (See Page 18 for Components)	22	815-0792-02	2	Screw, Cross Recessed – Pan Head (M4 x 0.7 x 8)
7	319-3942-02	1	Shield, Relay Plate	23	860-2006	4	Nut, Hex (M5 x 0.8)
8			Board, Printed Circuit – Power Module	24	870-2054	1	Nut, Lock (M6 x 1)
			Level 1 Control	25	895-0293-20	2	Gasket, Door
	300-5148-01	1	120 VAC	26	895-0293-09	2	Gasket, Door
	300-5148-02	1	208, 220, 240, 440, 480 VAC	27	870-0281	7	Nut, Hex – Whiz Lok (3/8-16)
	300-5148-04	1	190, 380, 416 VAC	28	517-0266	4	Plug, Hole
			Level 2 Control	29	315-0661	1	Transformer, Power
	300-5149-05	1	120 VAC	30	870-0212	4	Nut, Hex – Whiz Lok (1/4-20)
	300-5149-06	1	208, 220, 240, 440, 480 VAC	31	508-0233	11	Washer, Rubber
	300-5149-08	1	190, 380, 416 VAC	32	870-0131	11	Nut – W/ET (#10-32)
9	300-5151	1	Display, Digital	33	323-1156	1	Plug, Circuit (Not Shown)
10			Board, Printed Circuit – Digital	34	226-4798	1	Lead – ATS Sensing (Not Shown)
	300-5146-01	1	Level 1 Control	35	226-4916-01	1	Lead
	300-5147-04	1	Level 2 Control	36	306-4523	1	Cover, Printed Circuit Board
11	300-5180	1	Board, Printed Circuit – Bargraph	37	870-2216	4	Standoff, Male Snap
12			Membrane, Panel	38			Harness, Main
			Level 1 Control		338-3856-01	1	Level 1 Control
	300-5391	1	Without Digital Display		338-3857-01	1	Level 2 Control
	300-5392	1	With Digital Display	39	406-0714	1	Knob, Ball
			Level 2 Control	40	406-1147	2	Washer, Retainer
	300-5392	1	Without Meters–Bar Graph Display	41	508-1045	2	Edge, Protection
	300-5393	1	With Meters–Bar Graph Display	42	517-0137	2	Plug, Hole
				43	526-0030	2	Washer, Flat (3/8)
				44	526-0018	1	Washer, Flat (1/4)
				45	856-0010	1	Washer, Lock – W/EIT (3/8)
				46	800-0004	1	Screw, Hex Head (1/4-20 x 5/8)
13	319-7295-02	2	Bracket, Saddle	47	850-0040	1	Washer, Lock (1/4)
14	406-0613	1	Handle, Keyed				

Battery Charger **2 Amp, 12/24 Volt**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-6026-01	1	120V				
	300-6026-02	1	208V				
	300-6026-03	1	240V				
	300-6026-05	1	380V				
	300-6026-06	1	416V				
	300-6026-07	1	480V				

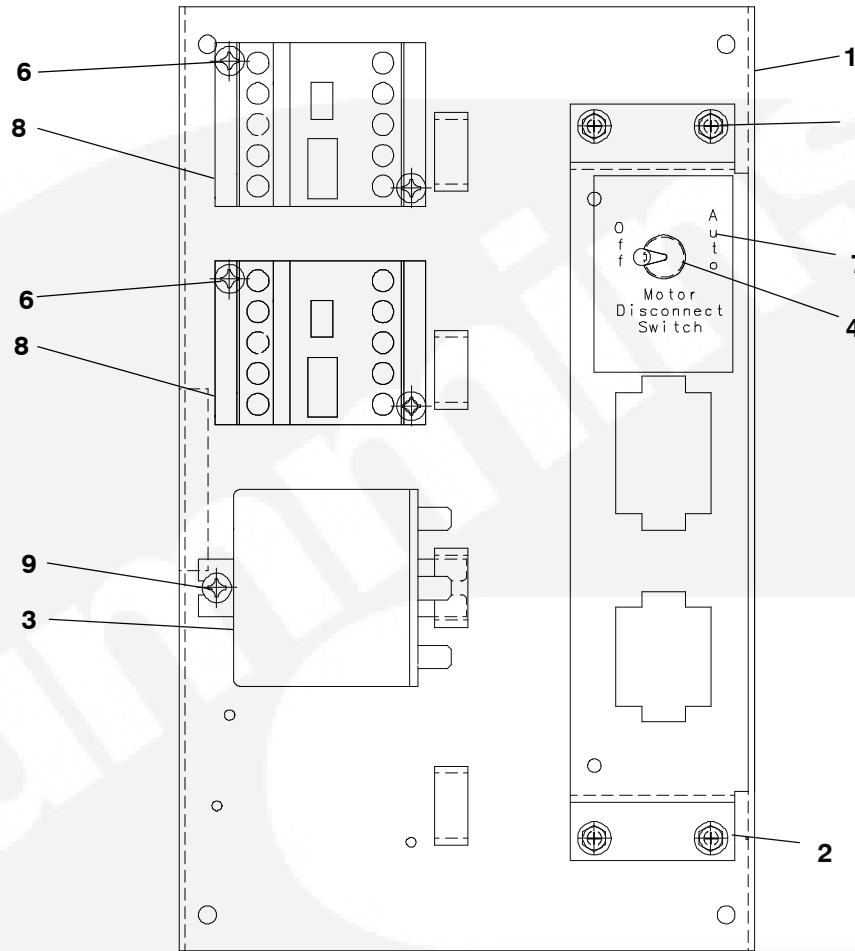
Battery Charger **15/12 Amp, 12/24 Volt**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-5878-13	1	120, 208, 240V				
	300-5878-15	1	380V				
	300-5878-16	1	416V				
	300-5878-17	1	480V				

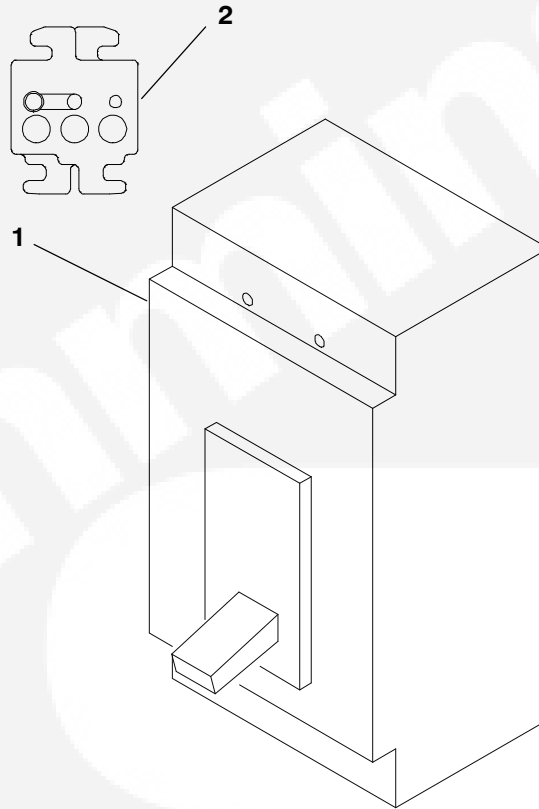


Relay Plate



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3940-02	1	Plate, Relay	6	815-0958-04	4	Screw, Cap – Hex Head (M4 x 10)
2	319-3941-02	1	Bracket, Connector	7	098-7643	1	Label, Plate Assembly
3	307-2929	3	Relay, 3PDT	8	307-2931	2	Relay, Control
4	308-0406	1	Switch, Toggle	9	815-0792-02	1	Screw, Cap – Hex Head – Cross Recessed (M4 x 8)
5	815-0955-03	4	Screw, Cap – Hex Head (M4 x 10)				

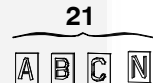
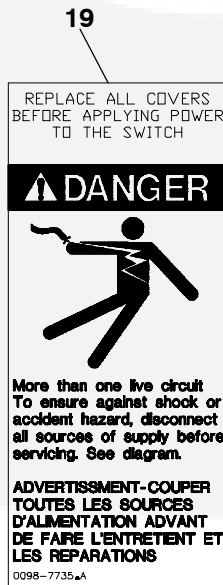
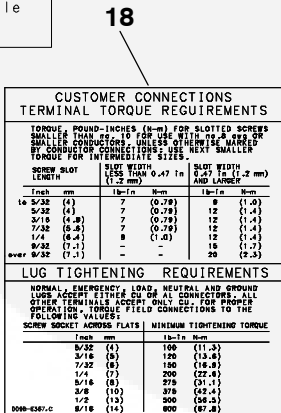
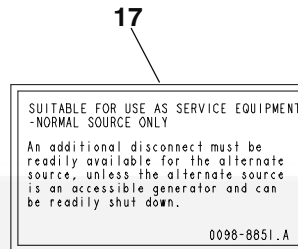
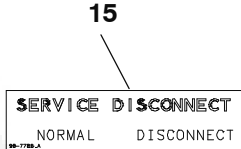
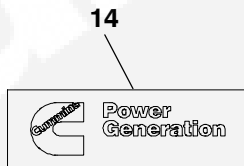
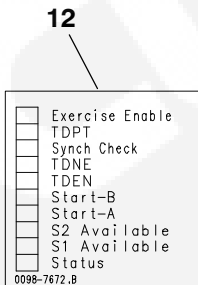
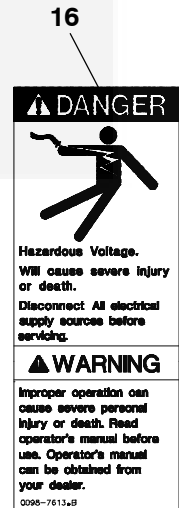
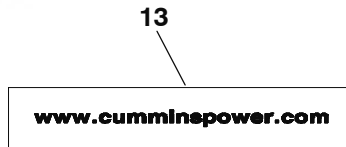
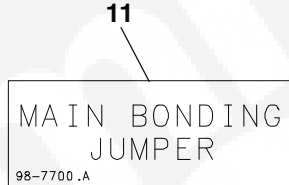
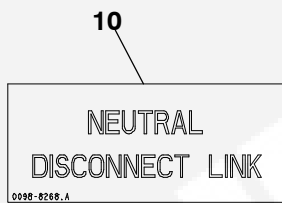
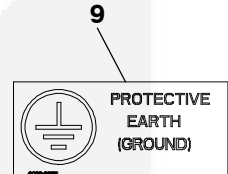
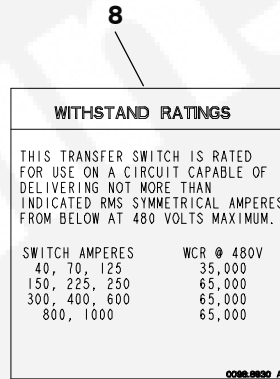
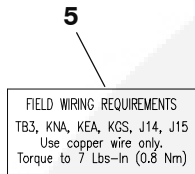
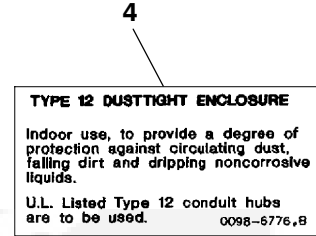
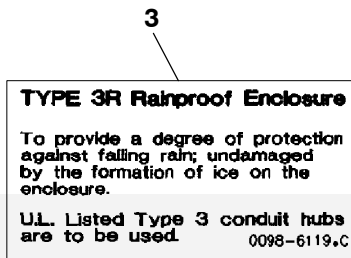
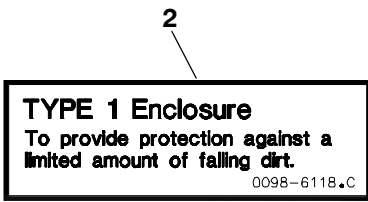
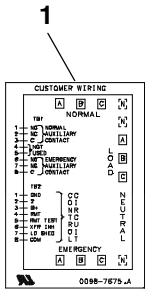
Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	320-2432-01	1	Breaker, Circuit 150 Amp - 3 Pole	2	406-1234	1	Plate, Lock
	320-2432-02	1	250 Amp - 3 Pole				



Labels

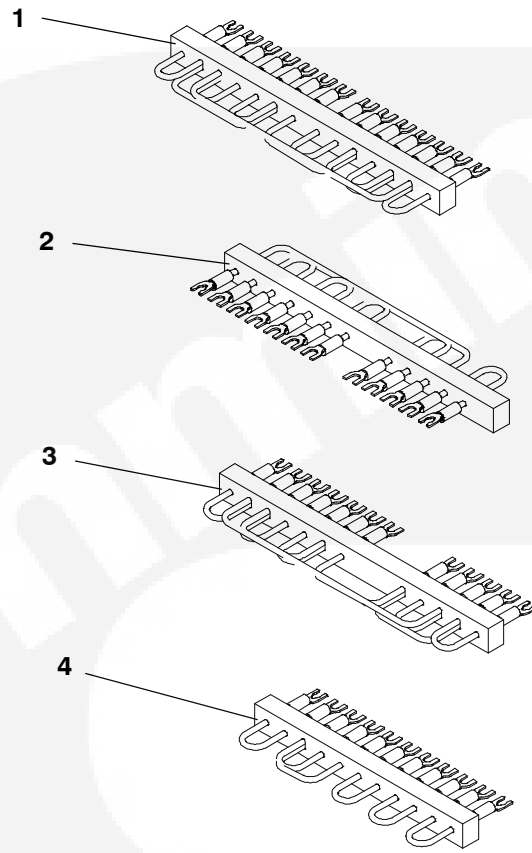


Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7675	1	Label, Customer Wiring	13	098-8280	1	Label, Information
2	098-6118	1	Label, Cabinet	14	098-7902-02	1	Label, Logo
3	098-6119	1	Label, Cabinet	15	098-7786	1	Label, Service Disconnect
4	098-6776	1	Label, Cabinet	16	098-7613	1	Label, Danger/Warning
5	098-7621	1	Label, Torque	17	098-8851	1	Label, Information
6	098-8350	1	Label, Instruction	18	098-6367	1	Label, Torque
7	098-8351	1	Label, Instruction	19	098-7735	2	Label, Cover
8	098-8930	1	Label, Information	20	098-8228	1	Label, Warning
9	098-6635	1	Label, Ground	21			Label, Bus Marking
10	098-8268	1	Label, Information (Neutral Disconnect)		098-5854-01	1	"A"
					098-5854-02	1	"B"
11	098-7700	1	Label, Bonding Jumper		098-5854-03	1	"C"
12	098-7672	1	Label, Function		098-5854-04	1	"N"

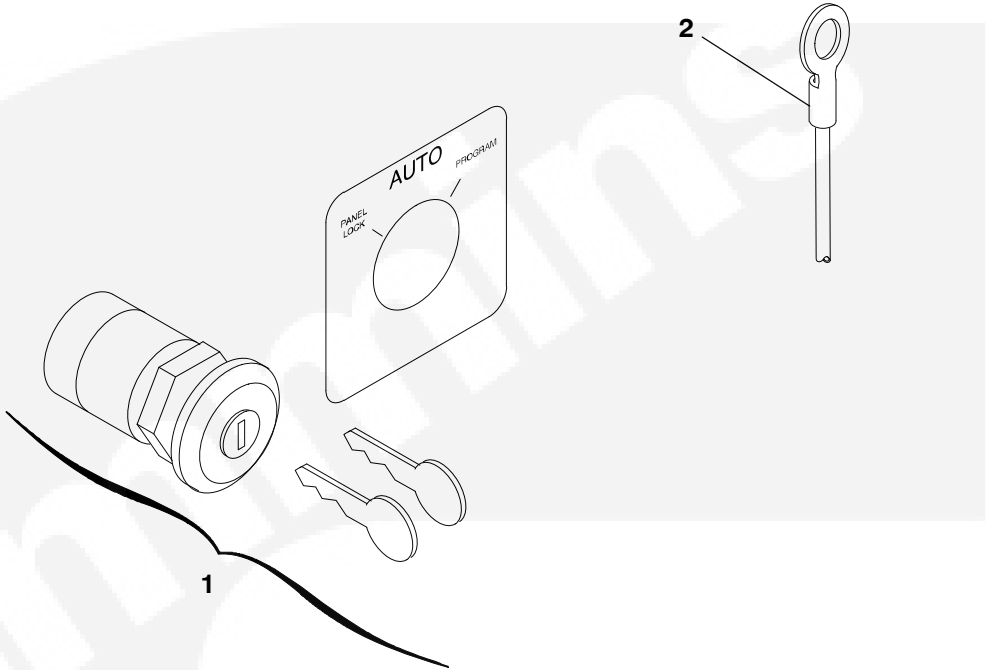


Terminal Jumper



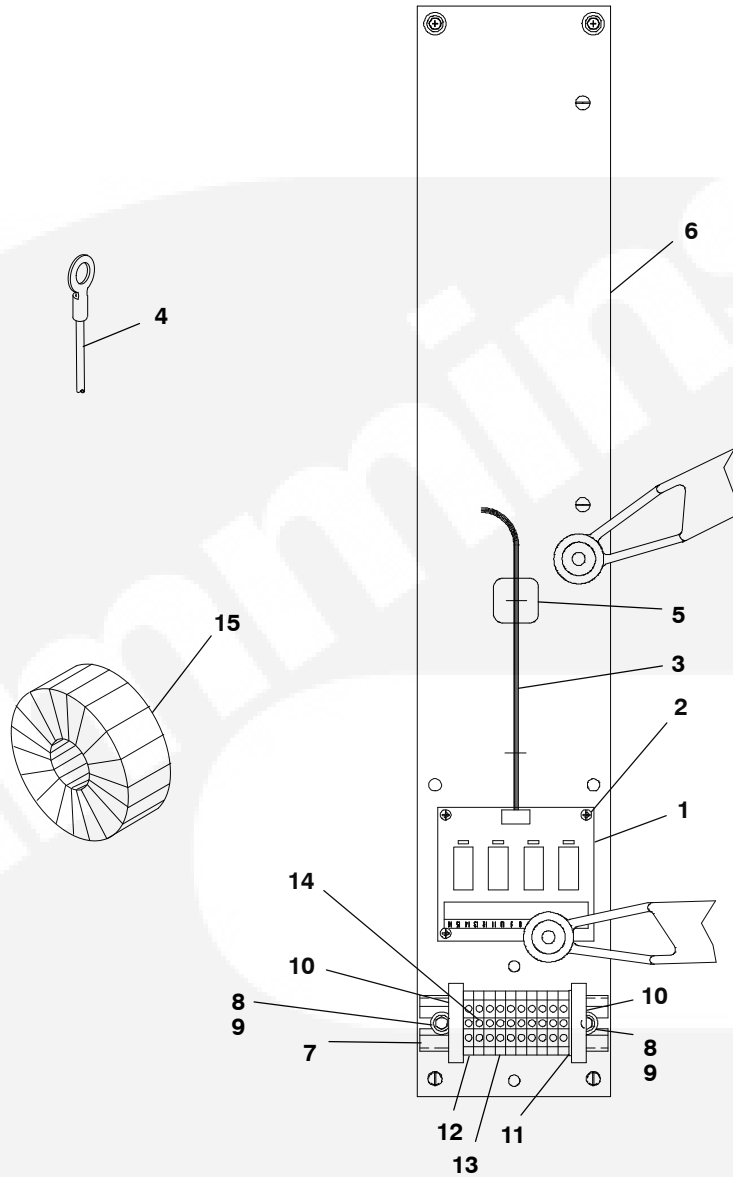
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-4291	2	Jumper, Terminal (190-240V Level 2)	3	332-4300	2	Jumper, Terminal (240V Level 2)
2	332-4298	2	Jumper, Terminal (380-480V Level 2)	4	332-4301	1	Jumper, Terminal (190-240V Level 1)

Front Panel Security



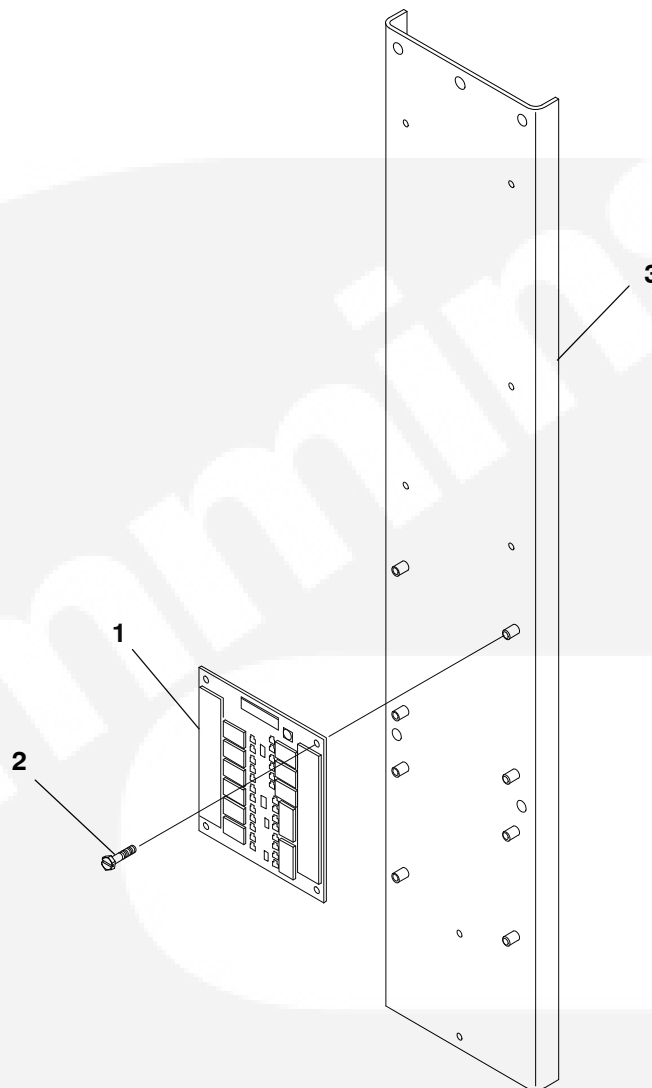
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1094	1	Switch, Selector	2	A026C687	1	Lead 23" (Marked S20-3 - J27-5)
					A026C689	1	23" (Marked S20-4 - J27-11)

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	14	332-2843-04	1	Jumper, Terminal (10 Pole) Transformer, Current
2	815-0959-02	4	Screw, Pan Head (M3 x 7)	15			150 Amp
3	338-3884-01	1	Harness, Current Module		302-1811	2	120 VAC
4	226-4794-03	1	Lead		302-1811	3	1 Phase, 2 or 3 Wire
5	332-2420	A/R	Mount, Cable Tie		302-1811	4	3 Phase, 3 or 4 Wire
6	319-3943-01	1	Plate, Mounting				225 Amp
7	332-2837-11	1	Rail, Terminal		302-0209	2	120 VAC
8	815-0955-03	2	Screw, Cap – Hex Head (M4 x 10)		302-0209	3	1 Phase, 2 or 3 Wire
9	526-0003	2	Washer, Flat		302-0209	4	3 Phase, 3 or 4 Wire
10	332-2839	2	Bracket, End – Terminal				250 Amp
11	332-2841	1	Plate, End – Terminal		302-1393	2	120 VAC
12	332-2836-02	1	Block, Terminal – Sectional		302-1393	3	1 Phase, 2 or 3 Wire
13	332-2842-11	2	Tag, Terminal (1-10)		302-1393	4	3 Phase, 3 or 4 Wire

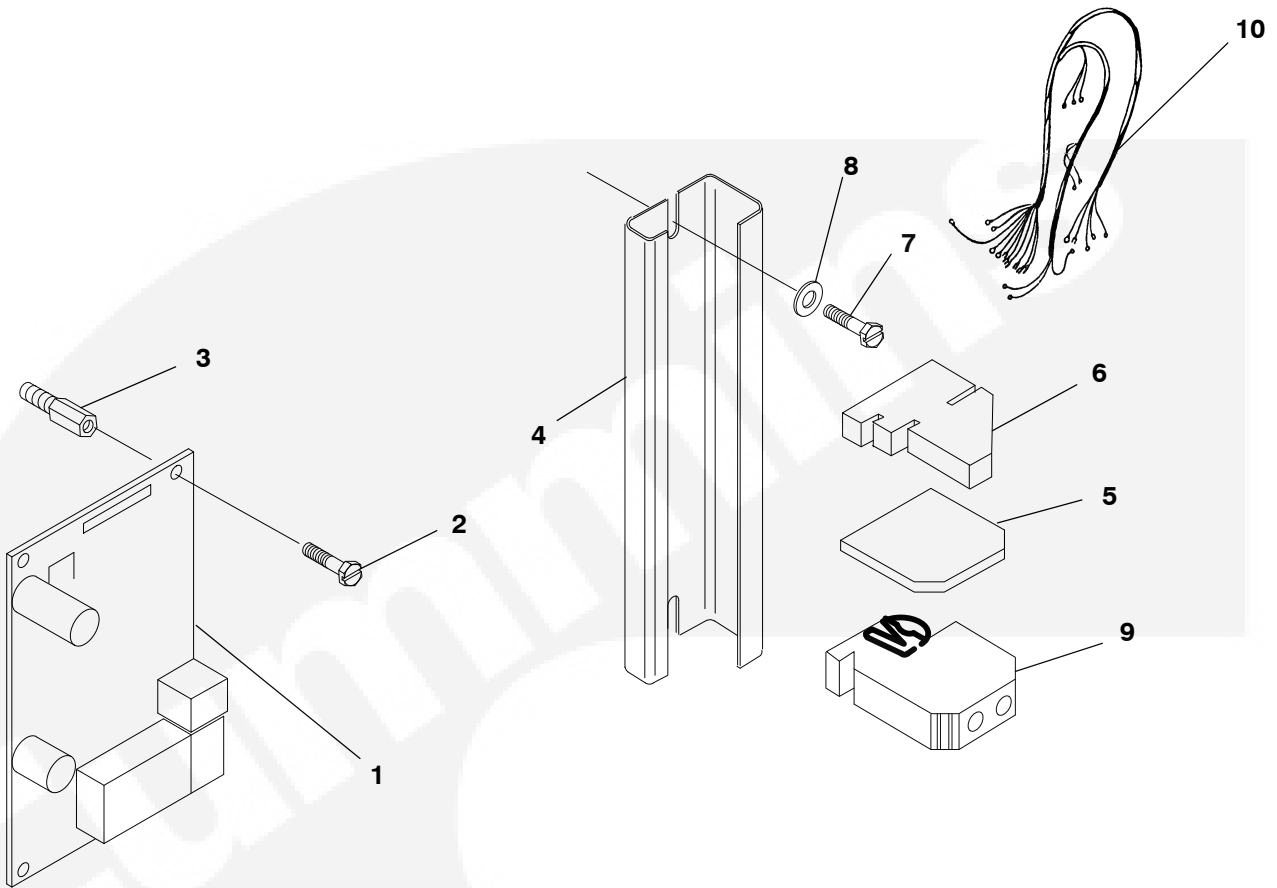
Relay Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5152	1	Board, Printed Circuit – Relay Module	3	319-3943-01	1	Plate, Mounting
2	815-0959-02	4	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 7)				

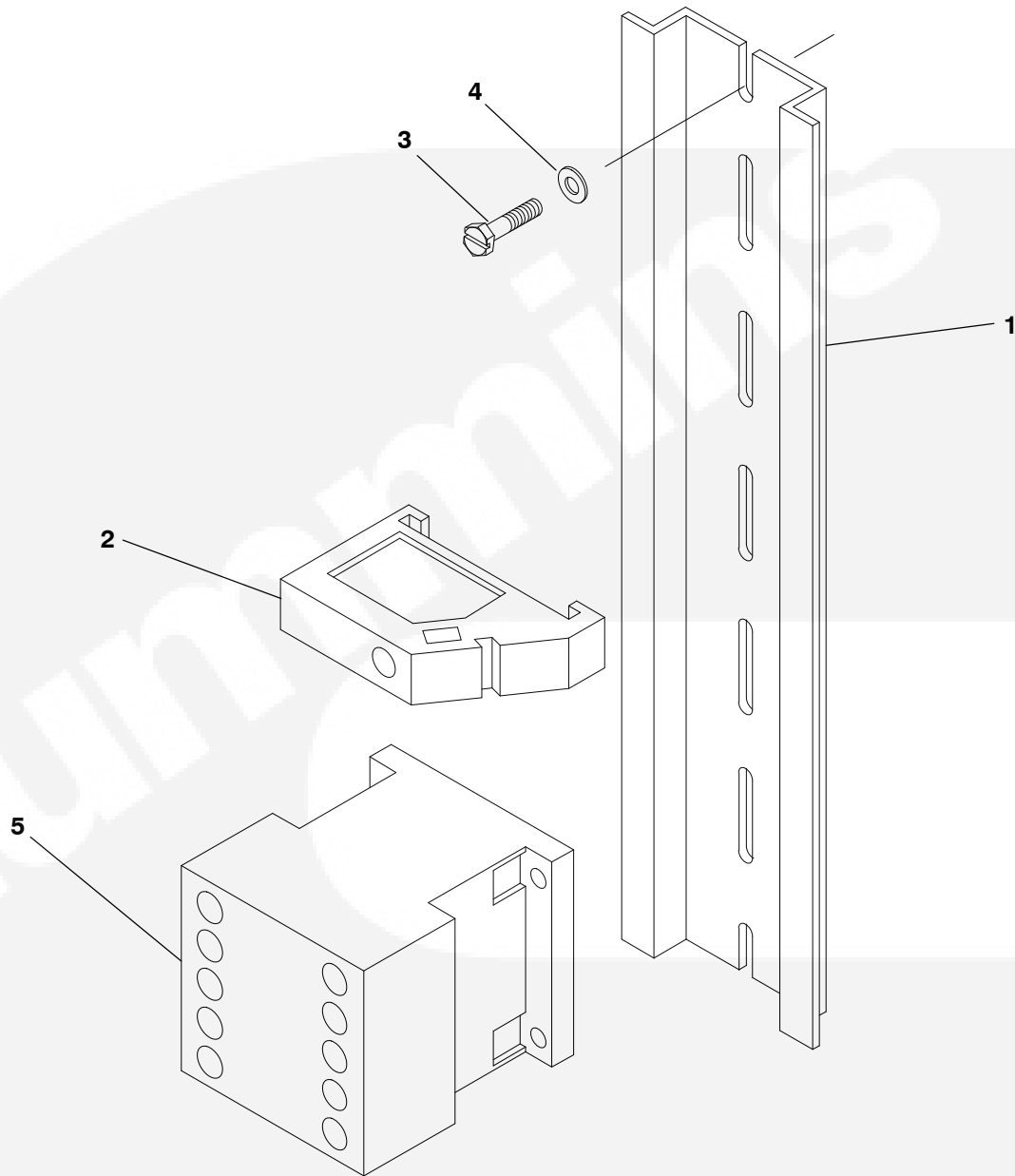


Network Module



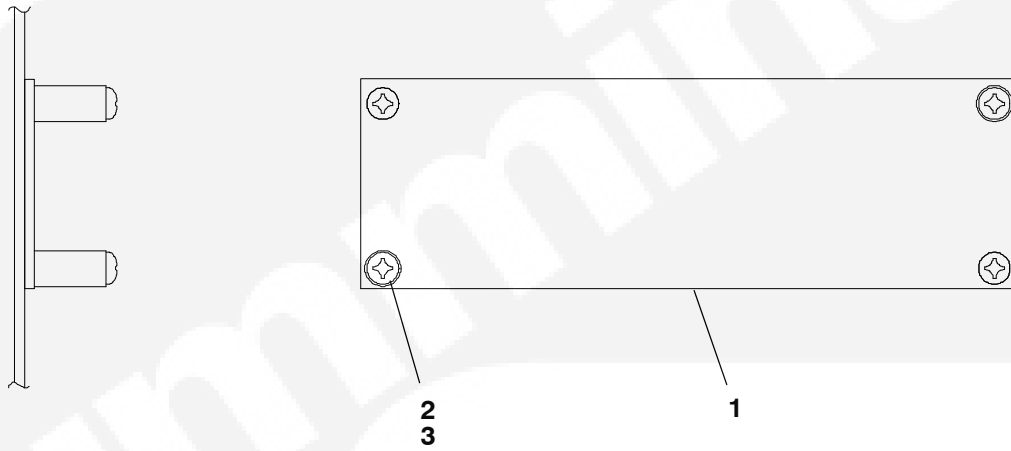
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	327-1542	1	Board, Printed Circuit – Network Module	6	332-2839	2	Bracket, End – Terminal
2	815-0959-03	4	Screw, Pan Head (M3 x 0.5 x 8)	7	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)
3	870-2213-02	4	Standoff, Hex Thread (M3)	8	526-0003	2	Washer, Flat
4	332-2837-09	1	Rail, Terminal Block	9	332-2836-01	2	Block, Terminal (Sectional)
5	332-2841	1	Plate, End – Terminal	10	338-3886	1	Harness, Network

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	526-0003	2	Washer, Flat
2	332-2878	2	Bracket, End	5			Relay, Control
3	815-0955-03	2	Screw, Phillips/Hex Head – GND (M4 x 10)		307-2873	1	12 VDC
					307-2874	1	24 VDC

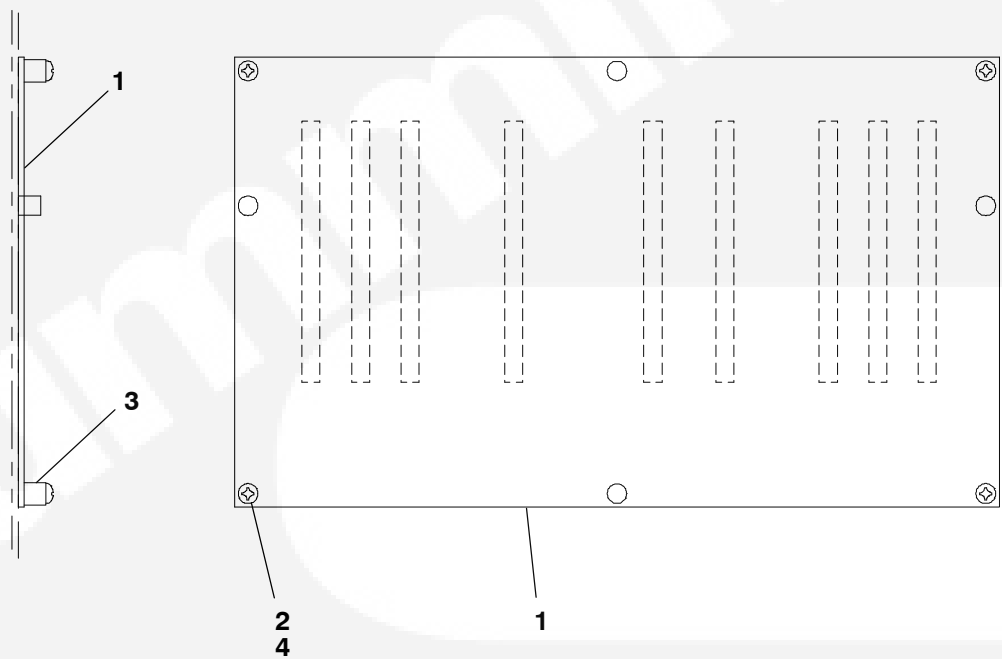
Digital Display Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4140-01	1	Cover, Digital Display
2	815-0959-02	4	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 7)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	526-0257	4	Washer, Flat

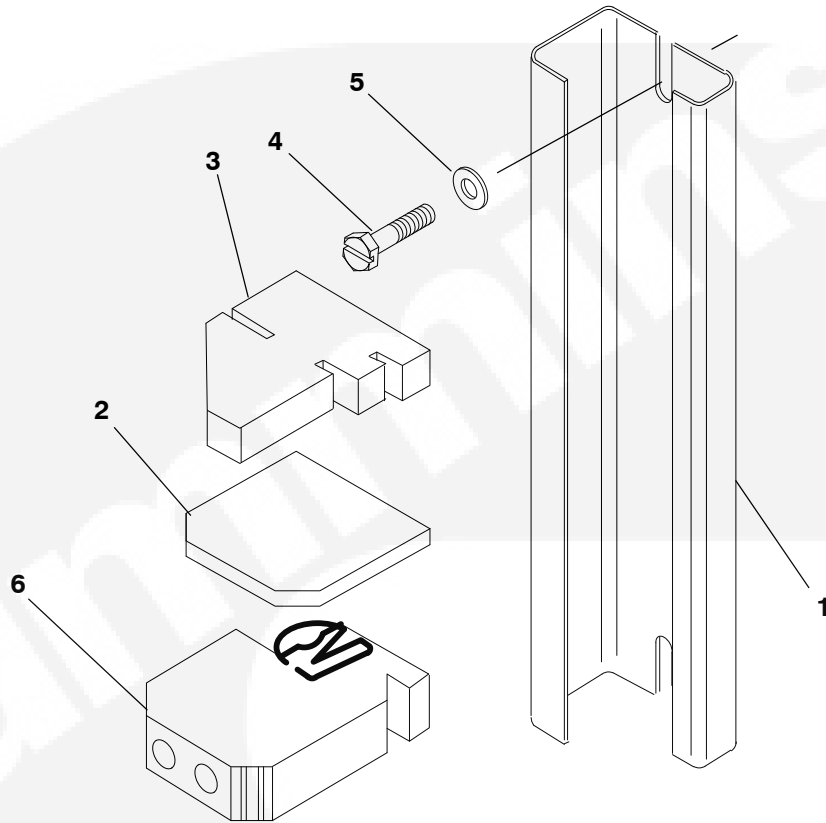
Bargraph Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4139-01	1	Plate, Display Cover
2	815-0959-02	4	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 7)

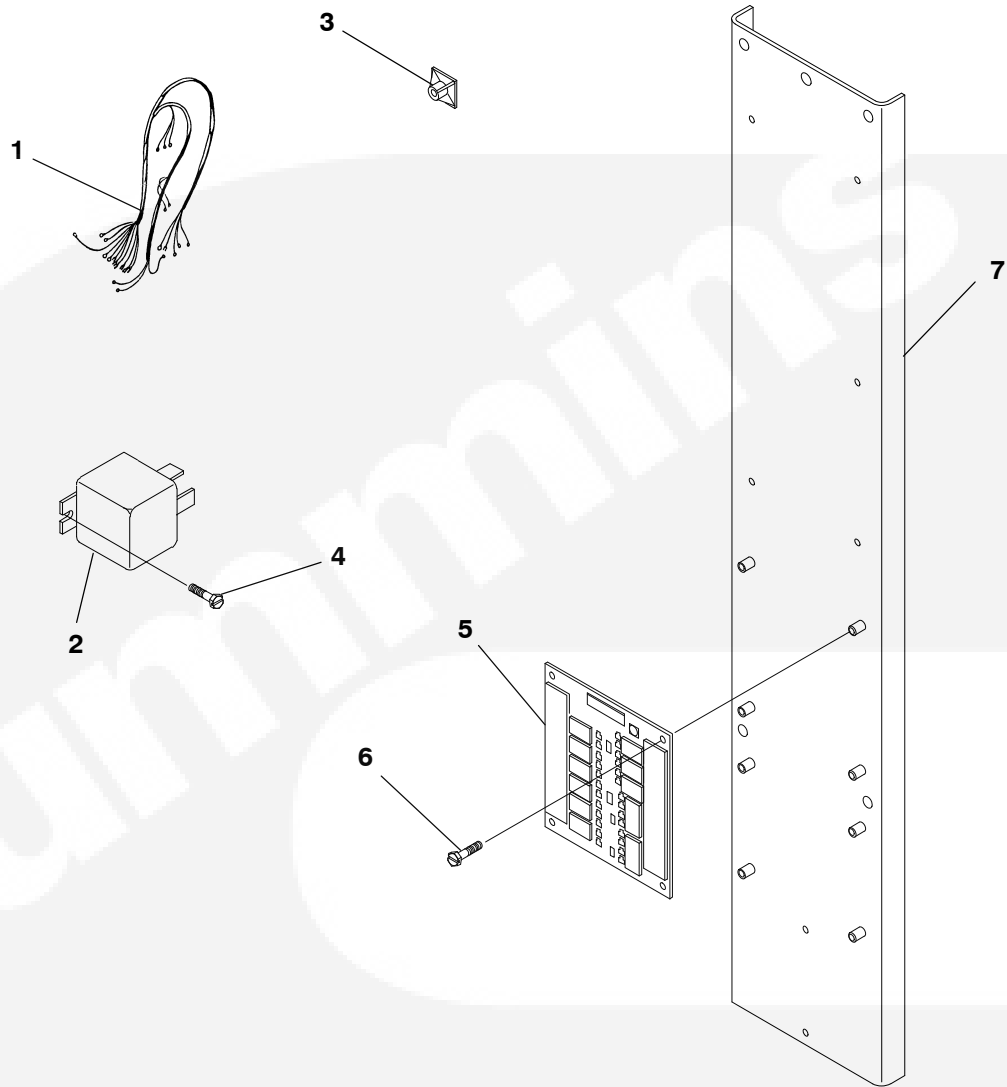
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	870-2218-01	4	Standoff, Nylon
4	526-0257	4	Washer, Flat

Terminal Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block	5	526-0003	2	Washer, Flat
2	332-2841	1	Plate, End - Terminal	6	332-2836-02	3	Block, Terminal (Sectional)
3	332-2839	2	Bracket, End - Terminal				
4	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)				

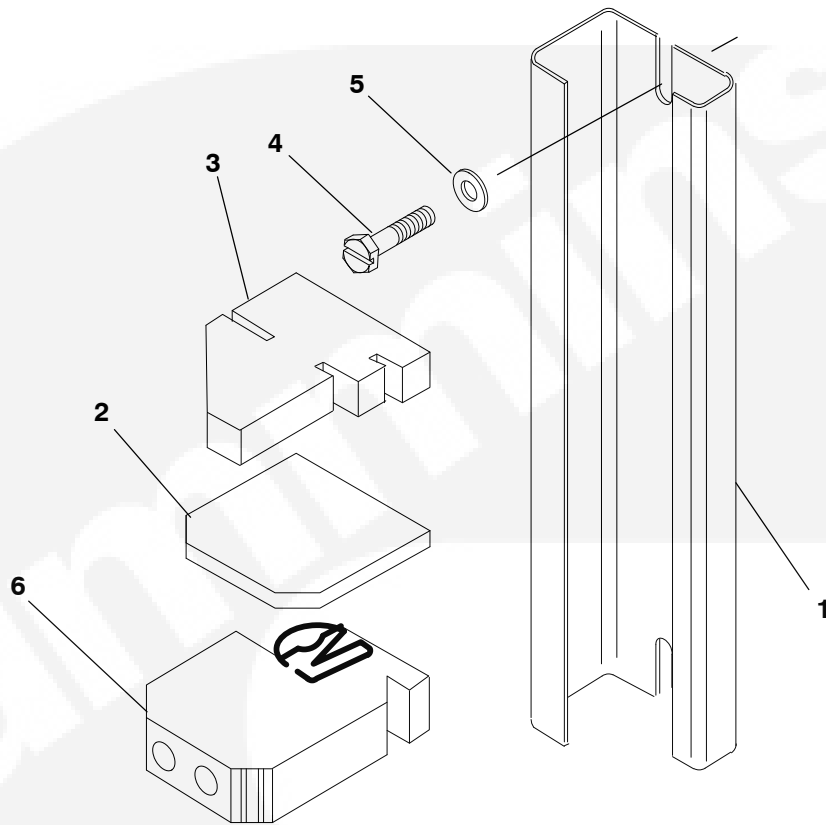
Load Shed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3876-01	1	Harness, Load Shed
	338-3876-02	1	All Except 600 Volt
2	307-2929	1	Relay - 3PDT (12 VDC)
3	332-2420	2	Mount, Cable Tie

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	815-0792-02	1	Screw, Pan Head (M4 x 8)
5	300-5152	1	Board, Printed Circuit - Relay Module
6	815-0959-02	4	Screw, Pan Head (M3 x 7)
7	319-3943-01	1	Plate, Mounting

Terminal Block Retransfer Inhibit



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block	5	526-0003	2	Washer, Flat
2	332-2841	1	Plate, End - Terminal	6	332-2836-01	2	Block, Terminal (Sectional)
3	332-2839	2	Bracket, End - Terminal				
4	815-0955-03	2	Screw, Phillips/Hex Head - GND (M4 x 10)				

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