

Parts Manual

Transfer Switch

300-600 Amps

BTPCC (Spec A-B)

MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This catalog applies to the BTPC 300/400 Amp (Spec A–B) and BTPC 600 Amp (Spec B) 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
A035	Utility to Generator Set Applications	L203	Auxiliary Relay – Normal Position – 12 VDC
A036	Utility to Utility Applications	M003	Terminal Block – 30 Points
A041	One Phase – 2 or 3 wire	M007	Load Shed
A042	Three Phase – 3 or 4 wire	M017	Security – Front Panel
A044	Frequency – 60 Hz	M018	Display – Digital
A045	Frequency – 50 Hz	M020	Communications – Lonworks
A046	Listing – UL	M022	Monitoring – Load
A064	Listing – UL/NFPA–20	M023	Module – Relay Signal
B001	Cabinet – Type 1	N009	Bus Stubs Connection
B002	Cabinet – Type 3R	R021	Voltage – 208
B003	Cabinet – Type 4	R022	Voltage – 220
B004	Construction – Open	R023	Voltage – 240
B010	Cabinet – Type 12	R024	Voltage – 380
B025	Cabinet – Type 4X, Stainless	R025	Voltage – 416
C024	Control – Level 2	R026	Voltage – 480
D009	Meters – Bar Graph Display	R027	Voltage – 600
K001	Battery Charger – 2 Amp, 12/24V	R035	Voltage – 440
KB59	Battery Charger – 15 Amp, 12V, 50/60 Hz	R038	Voltage – 190
KB60	Battery Charger – 12 Amp, 24V, 50/60 Hz	S052	Current Rating – 300 Amps
L101	Auxiliary Relay – 24 VDC Coil	S053	Current Rating – 400 Amps
L102	Auxiliary Relay – Emergency Position – 24 VDC	S054	Current Rating – 600 Amps
L103	Auxiliary Relay – Normal Position – 24 VDC		

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Abbreviations

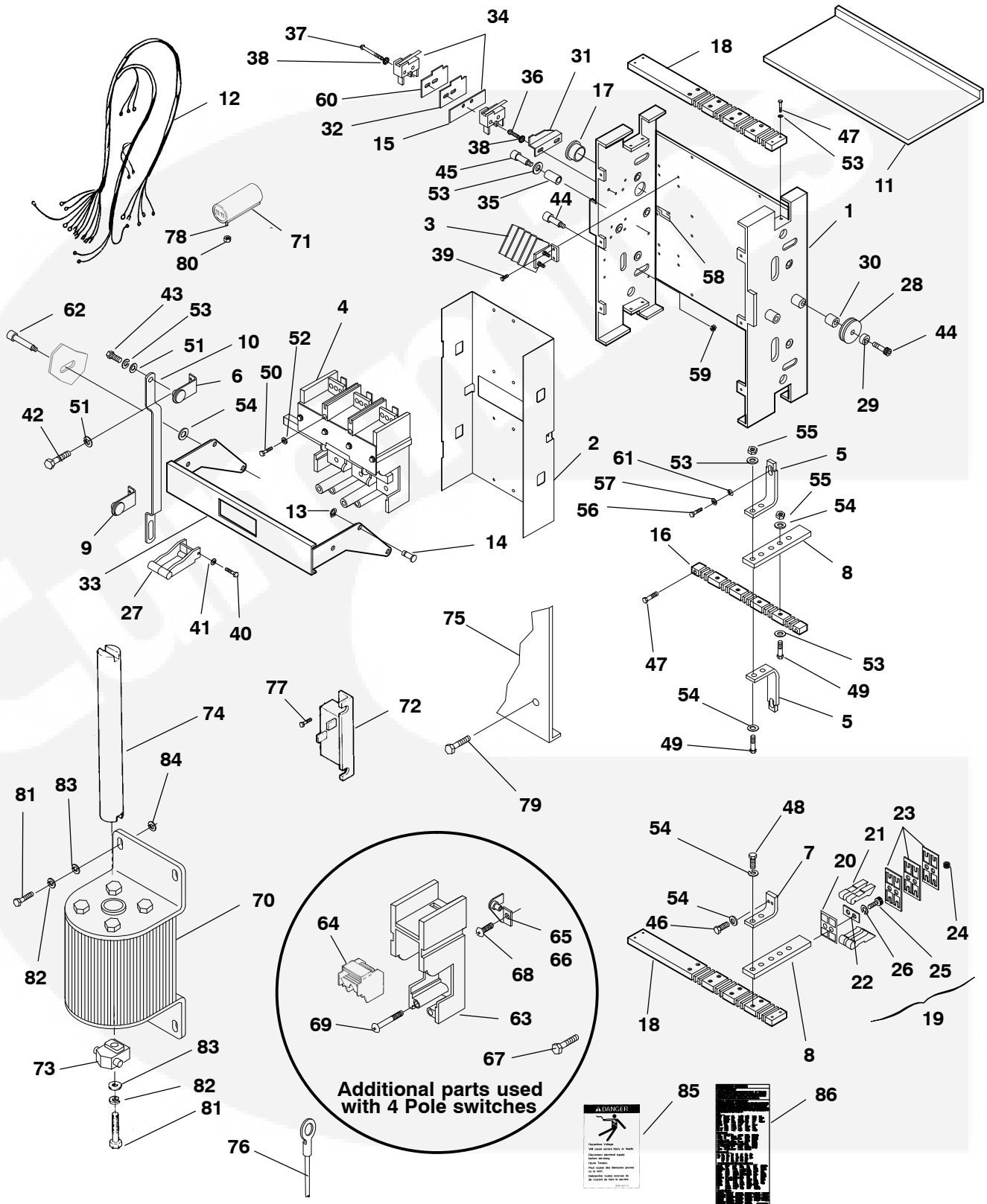
Some of the following abbreviations may be used throughout this Parts Catalog:

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

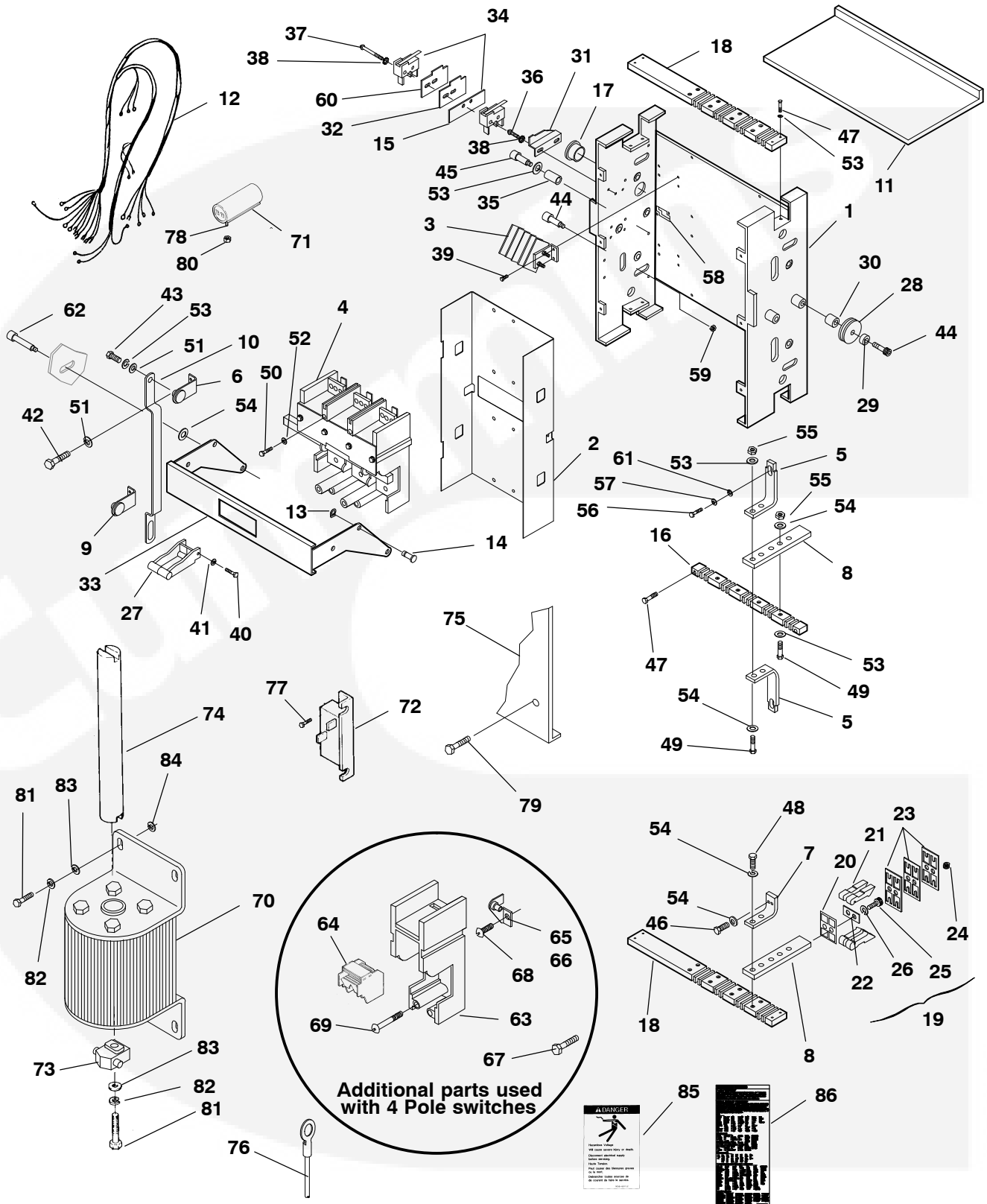


Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-5146	1	Switch Assembly – Complete		306-3692	48	4 Pole
	306-5147	1	3 Pole	25			*Retainer, Spring
1	306-3655	1	4 Pole		306-3971	27	3 Pole
2	306-3784	1	Base, Transfer		306-3971	36	4 Pole
3	306-4749	2	Barrier, Base	26			*Washer, Lock (1/4)
			Switch Assembly – Auxiliary		850-0040	18	3 Pole
			(See page 24 for components)		850-0040	24	4 Pole
4			Block Assembly	27	306-3724	2	Handle, Actuator (See page 34 for components)
			(See page 25 for components)				
			3 Pole	28	306-3659	4	Wheel, Bypass
	306-5019-02	1	Normal	29	306-3656	4	Sleeving, Wheel
	306-5019-01	1	Emergency	30	306-3670	4	Sleeving, Wheel
			4 Pole	31	306-4064-01	1	Bracket, Indicator
	306-5020-02	1	Normal	32	306-3996-01	1	Plate, Indicating
	306-5020-01	1	Emergency	33	306-3894	2	Bracket, Actuator
5			Bus, Load	34	309-0616	2	Switch, Snap Action
	337-2491	6	3 Pole	35	306-3718	3	Spacer
	337-2491	8	4 Pole	36	812-0059	2	Screw, Round Head (#6-32 x 1/4)
6	306-0509	1	Arm, Interlock				
7			Bus, Normal/Emergency	37	812-0072	2	Screw, Round Head (#6-32 x 1-3/4)
	337-2489	6	3 Pole				
	337-2489	8	4 Pole	38	853-0003	4	Washer, Lock – ET (#6)
8			Stab, Transfer Switch	39	815-0652	8	Screw, Hex Head – Slotted (#10-32 x 1/2)
	337-2456	9	3 Pole				
	337-2456	12	4 Pole	40	815-0485	4	Screw, Shoulder (#10-32)
9	306-0510	1	Arm, Interlock	41	850-0030	4	Washer, Lock (#10)
10	306-3657	1	Bar, Interlock	42	800-0002	2	Screw, Cap – Hex Head (1/4-20 x 3/8)
11	306-3705	2	Cover, End				
12	338-2647	1	Harness, Transfer Switch	43	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
13	518-0115	4	Ring, External				
14	516-0233	4	Pin, Clevis	44	815-0790-01	6	Screw, Socket Head – Shoulder (1/4-20 x 3/4)
15	306-1987	3	Barrier, Switch				
16	306-3634	1	Bar, Support – Load	45	815-0790-02	3	Screw, Socket Head – Shoulder (1/4-20 x 1)
17	508-0253	1	Bushing				
18	306-3719	2	Bar, Support	46			Screw, Cap – Hex Head (1/4-20 x 1.00)
19			Finger Assembly (Includes parts marked *)		800-0007	12	3 Pole
	306-3974	9	3 Pole		800-0007	16	4 Pole
	306-3974	12	4 Pole	47	815-0667	10	Screw, Cap – Hex Head – W/IT (1/4-20 x 1-1/4)
20			*Finger, Contact				
	306-3966-01	36	3 Pole	48			Screw, Cap – Hex Head (1/4-20 x 1-1/2)
	306-3966-01	48	4 Pole				
21			*Screw, Socket Head (1/4-20 x 5/8)		800-0009	12	3 Pole
					800-0009	16	4 Pole
	802-0045	18	3 Pole	49			Screw, Cap – Hex Head (1/4-20 x 1-3/4)
	802-0045	24	4 Pole				
22			*Retainer, Finger		800-0010	9	3 Pole
		9	3 Pole		800-0010	12	4 Pole
		12	4 Pole				* – Parts included in 306-3974 Finger Assembly
23			*Retainer, Finger				
	306-3967-01	9	3 Pole				
	306-3967-01	12	4 Pole				
24			*Spring, Contact				
	306-3692	36	3 Pole				

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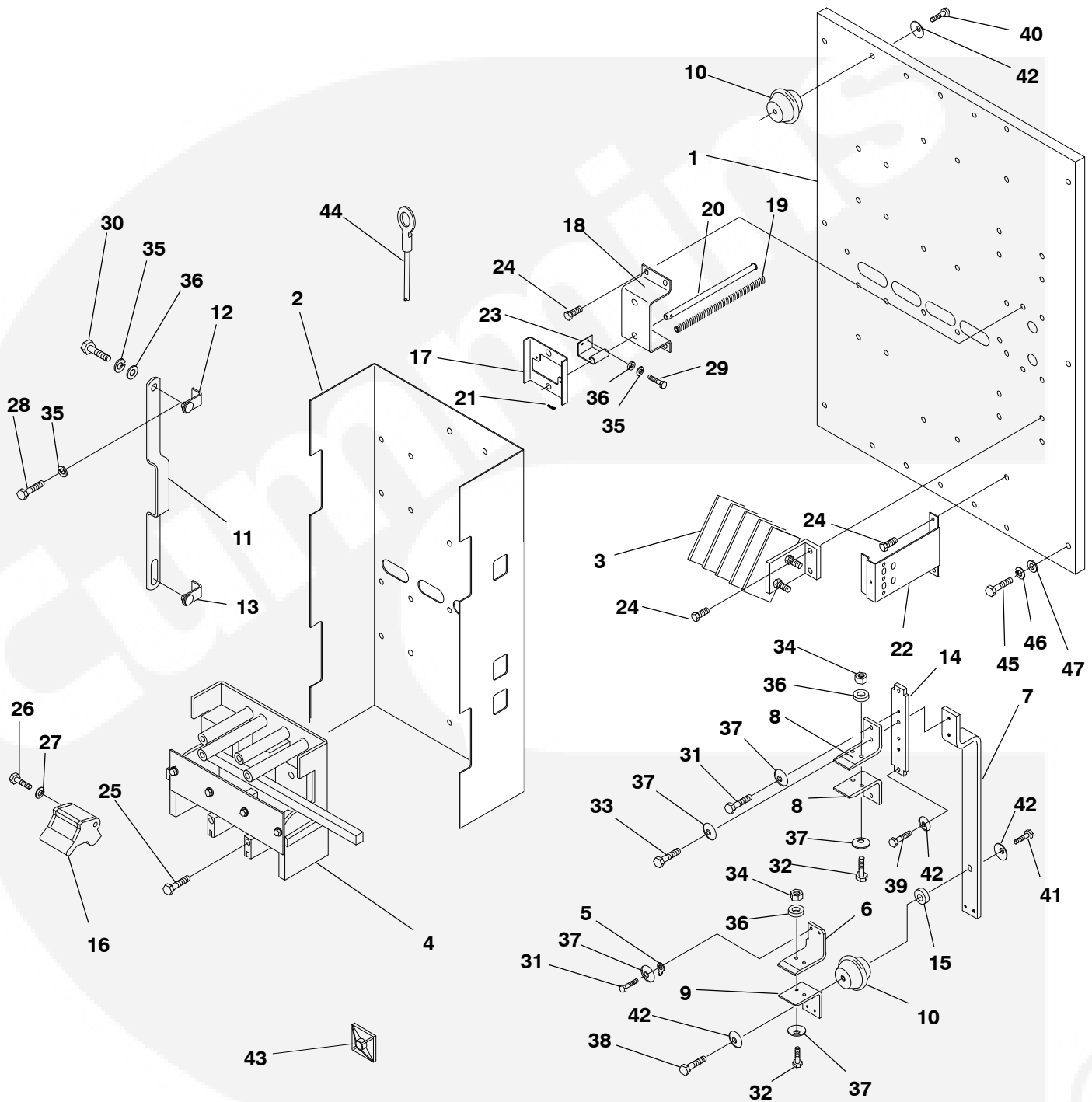
Transfer Switch



Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				69	815-0653	8	Screw, Round Head – Cross Recessed (#10-32 x 1-3/4) – 4 Pole
50	815-0656	8	Screw, Machine – Round Head – Cross Recessed – W/IT (1/4-20 x 2-3/4)	70			Actuator, Linear
51	850-0040	4	Washer, Lock (1/4)		306-3964-02	1	190 VAC
52	526-2081	8	Washer, Flat (1/4)		306-3964-03	1	208 VAC
53			Washer, Flat (1/4)		306-3964-04	1	220/240 VAC
	526-0018	25	3 Pole		306-3964-06	1	380/416 VAC
	526-0018	28	4 Pole		306-3964-07	1	440/480 VAC
54			Washer, Spring – Conical (1/4)	71			Capacitor
	851-0027	35	3 Pole		312-0218	1	190/208 VAC
	851-0027	46	4 Pole		312-0206	1	220/240 VAC
55			Nut, Hex (1/4-20)		312-0204	2	380/416 VAC
	862-0001	9	3 Pole		312-0236	2	440/480 VAC
	862-0001	12	4 Pole	72			Breaker, Circuit
56			Screw, Cap – Hex Head (5/16-18 x 1.0)		320-0611	1	190/208/220/240 VAC
	800-0028	6	3 Pole		320-0609	1	380/416 VAC
	800-0028	8	4 Pole		320-0608	1	440/480 VAC
57			Washer, Flat (5/16)	73	306-3400-02	2	Rod-End, Actuator
	526-0022	6	3 Pole	74	306-3963	1	Rod, Actuator
	526-0022	8	4 Pole	75	306-3715	1	Cover, Transfer Switch
58	815-0447	2	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .75)	76	226-3380	1	Lead
59	870-0065	2	Nut, Lock (1/4-20)	77	812-0060	2	Screw, Round Head (#6-32 x 5/16)
60	306-3995-01	1	Plate, Indicating	78	815-0029	4	Screw, Flat Head – Cross Recessed (#10-32 x .50)
61			Washer, Lock (5/16)	79	815-0652	6	Screw, Hex Head – Slotted (#10-32 x 1/2)
	850-0045	6	3 Pole	80	870-0131	4	Nut, Hex – W/ET (#10-32)
	850-0045	8	4 Pole	81	800-0008	6	Screw, Cap – Hex Head (1/4-20 x 1.25)
62	815-0790-03	2	Screw, Shoulder (1/4-20 x 1-1/2)	82	850-0040	6	Washer, Lock (.250)
63	306-5021	2	Block and Contact – 4 Pole	83	526-0018	6	Washer, Flat (.250)
64	306-4898	2	Chute, Arc – 4 Pole	84	526-0016	4	Washer, Flat (.250)
65	306-4889	1	Support (RH) – 4 Pole	85	098-6917	1	Label, Danger
66	306-4890	1	Support (LH) – 4 Pole	86	098-6890	1	Label, Withstand Ratings
67	815-0157	2	Screw, Set (#10-32 x 1/4) – 4 Pole				
68	815-0449	2	Screw, Round Head – Cross Recessed – W/ET (#10-32 x 3/4) – 4 Pole				

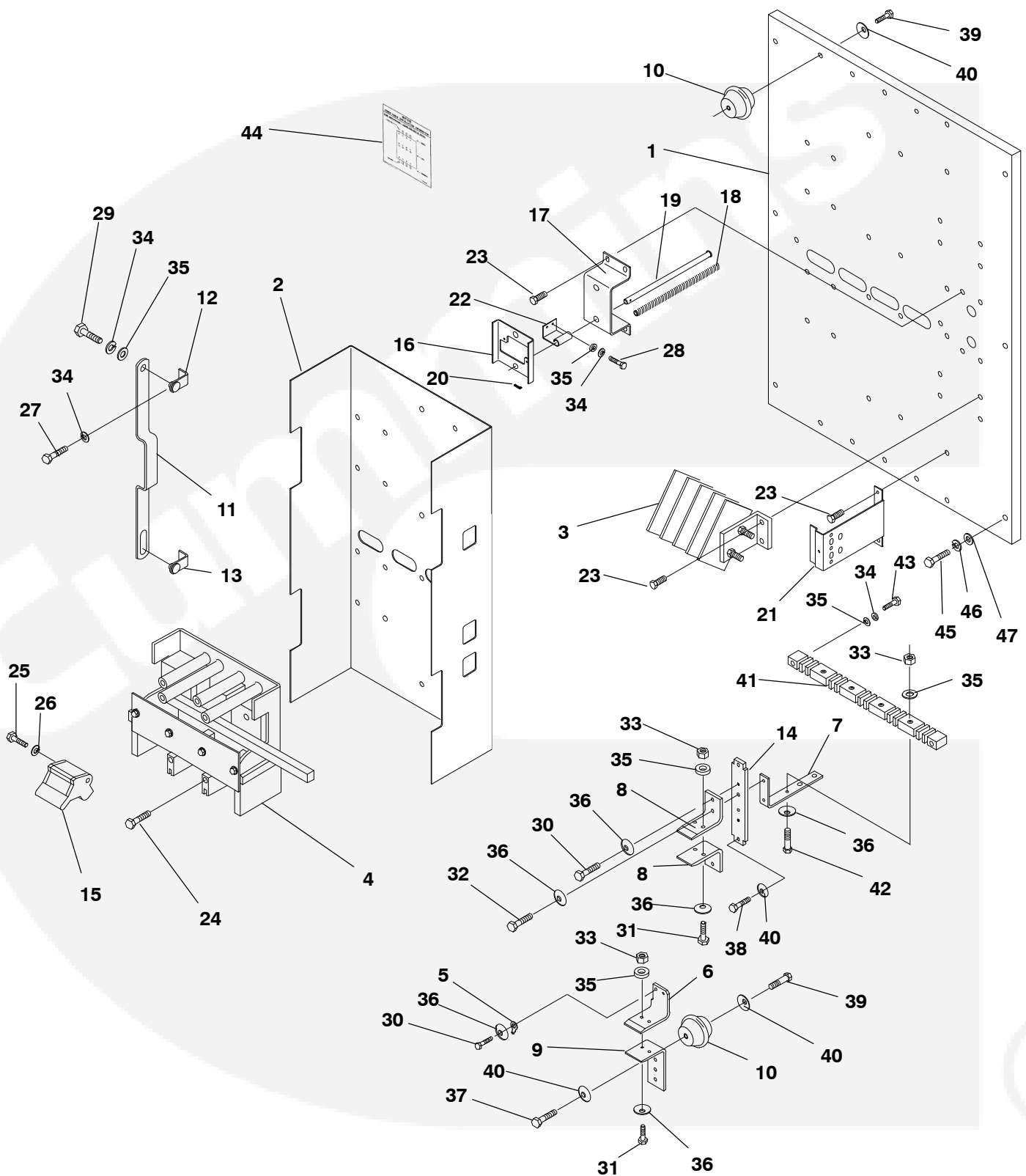
Bypass Switch **3-Pole Front Connect**



Bypass Switch 3-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3677	1	Base, Insert	28	800-0002	2	Screw, Cap – Hex Head (1/4-20 x 3/8)
2	306-3770	1	Barrier, Base	29	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)
3	306-4749	2	Switch Assembly, Auxiliary (See Page 24 for Components)	30	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
4			Block Assembly (See Page 25 for Components)	31	800-0005	18	Screw, Cap – Hex Head (1/4-20 x 3/4)
	306-5019-02	1	Normal	32	800-0006	18	Screw, Cap – Hex Head (1/4-20 x 7/8)
	306-5019-01	1	Emergency	33	800-0008	6	Screw, Cap – Hex Head (1/4-20 x 1-1/4)
5	332-2462	9	Terminal, Ring	34	862-0001	18	Nut, Hex (1/4-20)
6	337-2492	6	Bus, Normal/Emergency Stab	35	850-0040	8	Washer, Lock (1/4)
7	337-2488	3	Bus, Load	36	526-0018	24	Washer, Flat (1/4)
8	337-2490	6	Bus, Load – Stab	37	851-0027	42	Washer, Spring – Conical (1/4)
9	337-2494	6	Bus, Normal/Emergency Lug	38	800-0026	6	Screw, Cap – Hex Head (5/16-18 x 3/4)
10	332-2305	6	Standoff, Insulator	39	800-0028	6	Screw, Cap – Hex Head (5/16-18 x 1.00)
11	306-3667	1	Bar, Interlock	40	800-0030	3	Screw, Cap – Hex Head (5/16-18 x 1.25)
12	306-0509	1	Arm, Interlock	41	800-0033	3	Screw, Cap – Hex Head (5/16-18 x 2.00)
13	306-0510	1	Arm, Interlock	42	851-0028	18	Washer, Spring – Conical (5/16)
14	337-2493	3	Bus, Jumper	43	332-2420	2	Mount, Cable Tie
15	508-0318	3	Washer, Phenolic	44	226-4333-01	1	Lead
16	306-3768	2	Handle, Bypass Switch	45	821-0028	6	Screw, Hex – Locking (3/8-16 x .50)
17	306-3717	1	Bracket, Secdisc Plug	46	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4)
18	306-3691	1	Bracket, Secdisc Base	47	850-0050	6	Washer, Lock (3/8)
19	306-3713	2	Spring, Secdisc	48	526-0029	6	Washer, Flat (3/8)
20	516-0238	2	Pin, Clevis				
21	516-0040	2	Pin, Cotter (3/32 x 1)				
22	306-3676	3	Bracket, Shutter				
23	306-3753	2	Bracket, Support – Spring				
24	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10-32 x .75)				
25	812-0162	8	Screw, Machine – Round Head (1/4-20 x 3.00)				
26	815-0485	4	Screw, Shoulder (#10-32)				
27	850-0030	4	Washer, Lock (#10)				

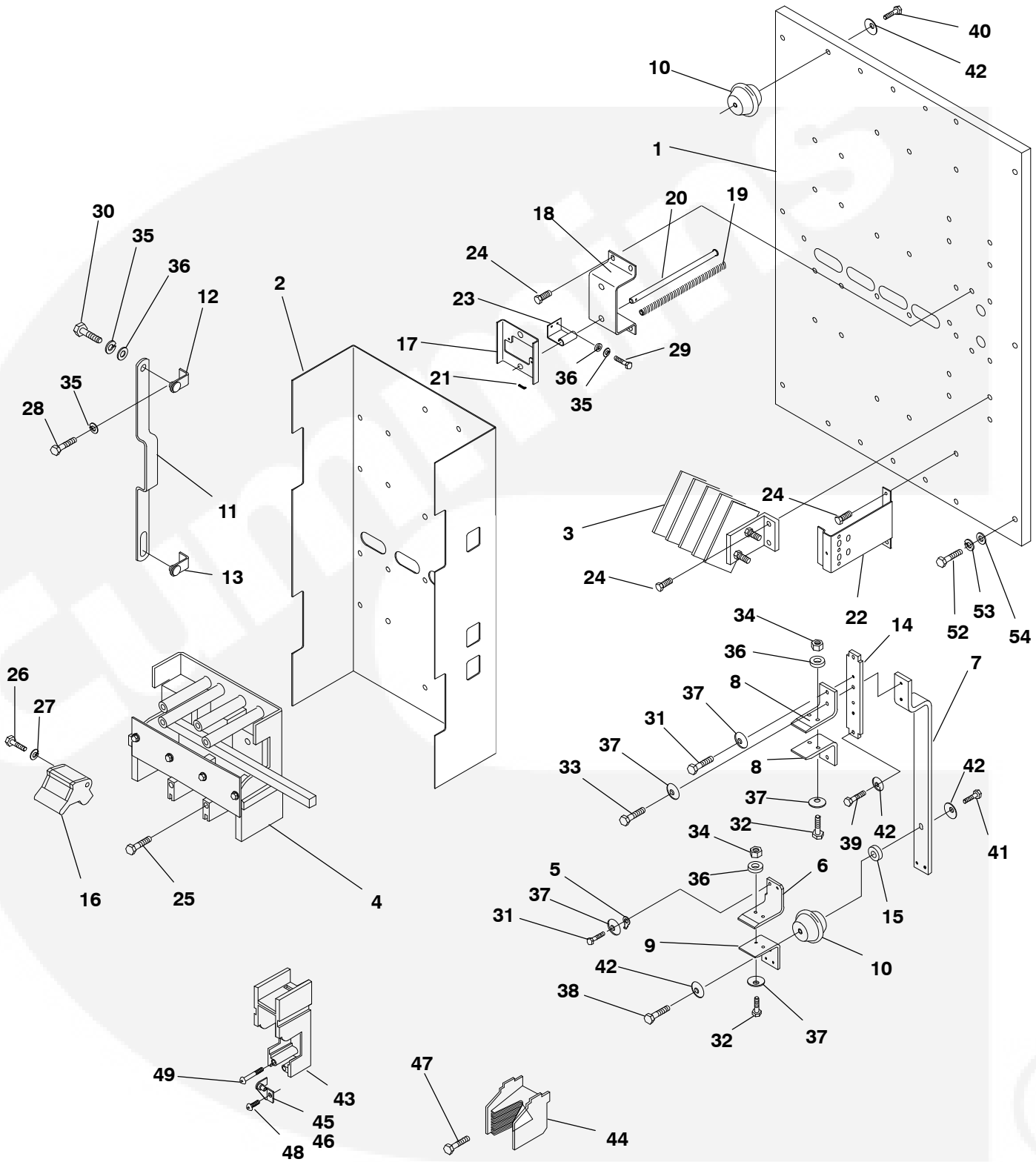
Bypass Switch 3-Pole Rear Connect



Bypass Switch 3-Pole Rear Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3677	1	Base, Insert	28	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
2	306-3770	1	Barrier, Base	29	800-0003	2	Screw, Cap – Hex Head (1/4–20 x 1/2)
3	306-4749	2	Switch Assembly, Auxiliary (See Page 24 for Components)	30	800-0005	18	Screw, Cap – Hex Head (1/4–20 x 3/4)
4			Block Assembly (See Page 25 for Components)	31	800-0006	18	Screw, Cap – Hex Head (1/4–20 x 7/8)
	306-5019-02	1	Normal	32	800-0008	6	Screw, Cap – Hex Head (1/4–20 x 1-1/4)
	306-5019-01	1	Emergency	33	862-0001	21	Nut, Hex (1/4–20)
5	332-2462	9	Terminal, Ring	34	850-0040	10	Washer, Lock (1/4)
6	337-2492	6	Bus, Normal/Emergency Stab	35	526-0018	29	Washer, Flat (1/4)
7	337-2501	3	Bus, Load	36	851-0027	45	Washer, Spring – Conical (1/4)
8	337-2490	6	Bus, Load – Stab	37	800-0026	6	Screw, Cap – Hex Head (5/16–18 x 3/4)
9	337-2525	6	Bus, Normal/Emergency Lug	38	800-0028	6	Screw, Cap – Hex Head (5/16–18 x 1.00)
10	332-2305	6	Standoff, Insulator	39	800-0030	6	Screw, Cap – Hex Head (5/16–18 x 1.25)
11	306-3667	1	Bar, Interlock	40	851-0028	18	Washer, Spring – Conical (5/16)
12	306-0509	1	Arm, Interlock	41	306-3634	1	Bar, Support
13	306-0510	1	Arm, Interlock	42	800-0010	3	Screw, Cap – Hex Head (1/4–20 x 1-3/4)
14	337-2493	3	Bus, Jumper	43	800-0011	2	Screw, Cap – Hex Head (1/4–20 x 2.00)
15	306-3768	2	Handle, Bypass Switch	44	098-6763	1	Label, Power Cable
16	306-3717	1	Bracket, Secdisc Plug	45	821-0028	6	Screw, Hex – Locking (3/8–16 x .50)
17	306-3691	1	Bracket, Secdisc Base	46	800-0051	6	Screw, Cap – Hex Head (3/8–16 x 1-1/4)
18	306-3713	2	Spring, Secdisc	47	850-0050	6	Washer, Lock (3/8)
19	516-0238	2	Pin, Clevis	48	526-0029	6	Washer, Flat (3/8)
20	516-0040	2	Pin, Cotter (3/32 x 1)				
21	306-3676	3	Bracket, Shutter				
22	306-3753	2	Bracket, Support – Spring				
23	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10–32 x .75)				
24	812-0162	8	Screw, Machine – Round Head (1/4–20 x 3.00)				
25	815-0485	4	Screw, Shoulder (#10–32)				
26	850-0030	4	Washer, Lock (#10)				
27	800-0002	2	Screw, Cap – Hex Head (1/4–20 x 3/8)				

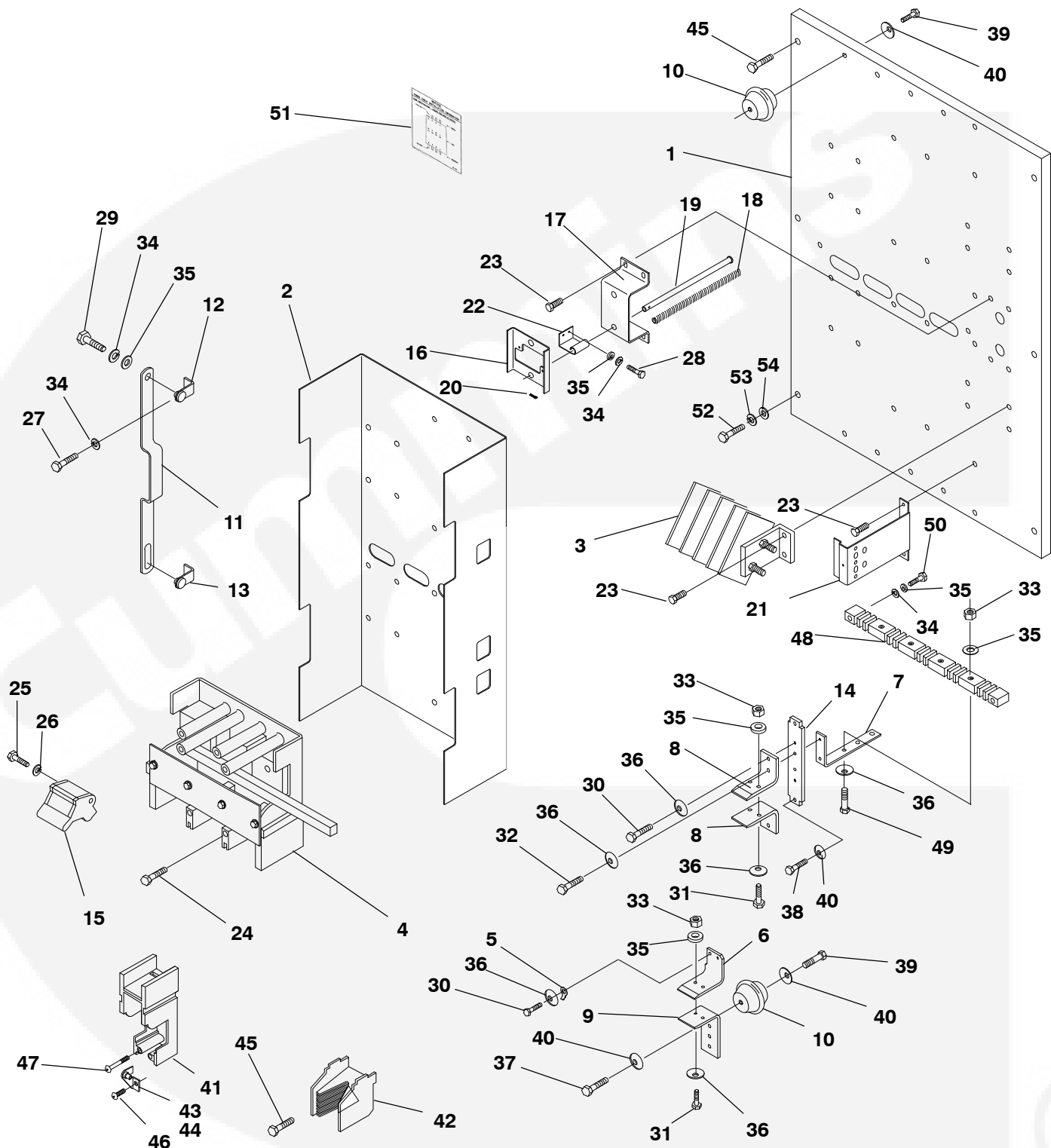
Bypass Switch 4-Pole Front Connect



Bypass Switch 4-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3677	1	Base, Insert	29	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
2	306-3770	1	Barrier, Base	30	800-0003	2	Screw, Cap – Hex Head (1/4–20 x 1/2)
3	306-4749	2	Switch Assembly, Auxiliary (See Page 24 for Components)	31	800-0005	24	Screw, Cap – Hex Head (1/4–20 x 3/4)
4			Block Assembly (See Page 25 for Components)	32	800-0006	24	Screw, Cap – Hex Head (1/4–20 x 7/8)
	306-5020-02	1	Normal	33	800-0008	8	Screw, Cap – Hex Head (1/4–20 x 1-1/4)
	306-5020-01	1	Emergency	34	862-0001	24	Nut, Hex (1/4–20)
5	332-2462	10	Terminal, Ring	35	850-0040	8	Washer, Lock (1/4)
6	337-2492	8	Bus, Normal/Emergency Stab	36	526-0018	30	Washer, Flat (1/4)
7	337-2488	4	Bus, Load	37	851-0027	56	Washer, Spring – Conical (1/4)
8	337-2490	8	Bus, Load – Stab	38	800-0026	8	Screw, Cap – Hex Head (5/16–18 x 3/4)
9	337-2494	8	Bus, Normal/Emergency Lug	39	800-0028	8	Screw, Cap – Hex Head (5/16–18 x 1.00)
10	332-2305	8	Standoff, Insulator	40	800-0030	4	Screw, Cap – Hex Head (5/16–18 x 1.25)
11	306-3667	1	Bar, Interlock	41	800-0033	4	Screw, Cap – Hex Head (5/16–18 x 2.00)
12	306-0509	1	Arm, Interlock	42	851-0028	24	Washer, Spring – Conical (5/16)
13	306-0510	1	Arm, Interlock	43	306-5021	2	Block and Contact Assembly
14	337-2493	4	Bus, Jumper	44	306-4898	2	Chute, Arc
15	508-0318	4	Washer, Phenolic	45	306-4889	1	Support – Left Hand
16	306-3768	2	Handle, Bypass Switch	46	306-4890	1	Support – Right Hand
17	306-3717	1	Bracket, Secdisc Plug	47	815-0157	2	Screw, Set (#10–32 x 1/4)
18	306-3691	1	Bracket, Secdisc Base	48	813-0449	2	Screw, Machine – Round Head – Cross Recessed – W/ET (#10–32 x 3/4)
19	306-3713	2	Spring, Secdisc	49	813-0111	8	Screw, Machine – Round Head (#10–32 x 2-1/4)
20	516-0238	2	Pin, Clevis	50	800-0051	6	Screw, Cap – Hex Head (3/8–16 x 1-1/4)
21	516-0040	2	Pin, Cotter (3/32 x 1)	51	850-0050	6	Washer, Lock (3/8)
22	306-3676	3	Bracket, Shutter	52	526-0029	6	Washer, Flat (3/8)
23	306-3753	2	Bracket, Support – Spring				
24	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10–32 x .75)				
25	812-0162	8	Screw, Machine – Round Head (1/4–20 x 3.00)				
26	815-0485	4	Screw, Shoulder (#10–32)				
27	850-0030	4	Washer, Lock (#10)				
28	800-0002	2	Screw, Cap – Hex Head (1/4–20 x 3/8)				

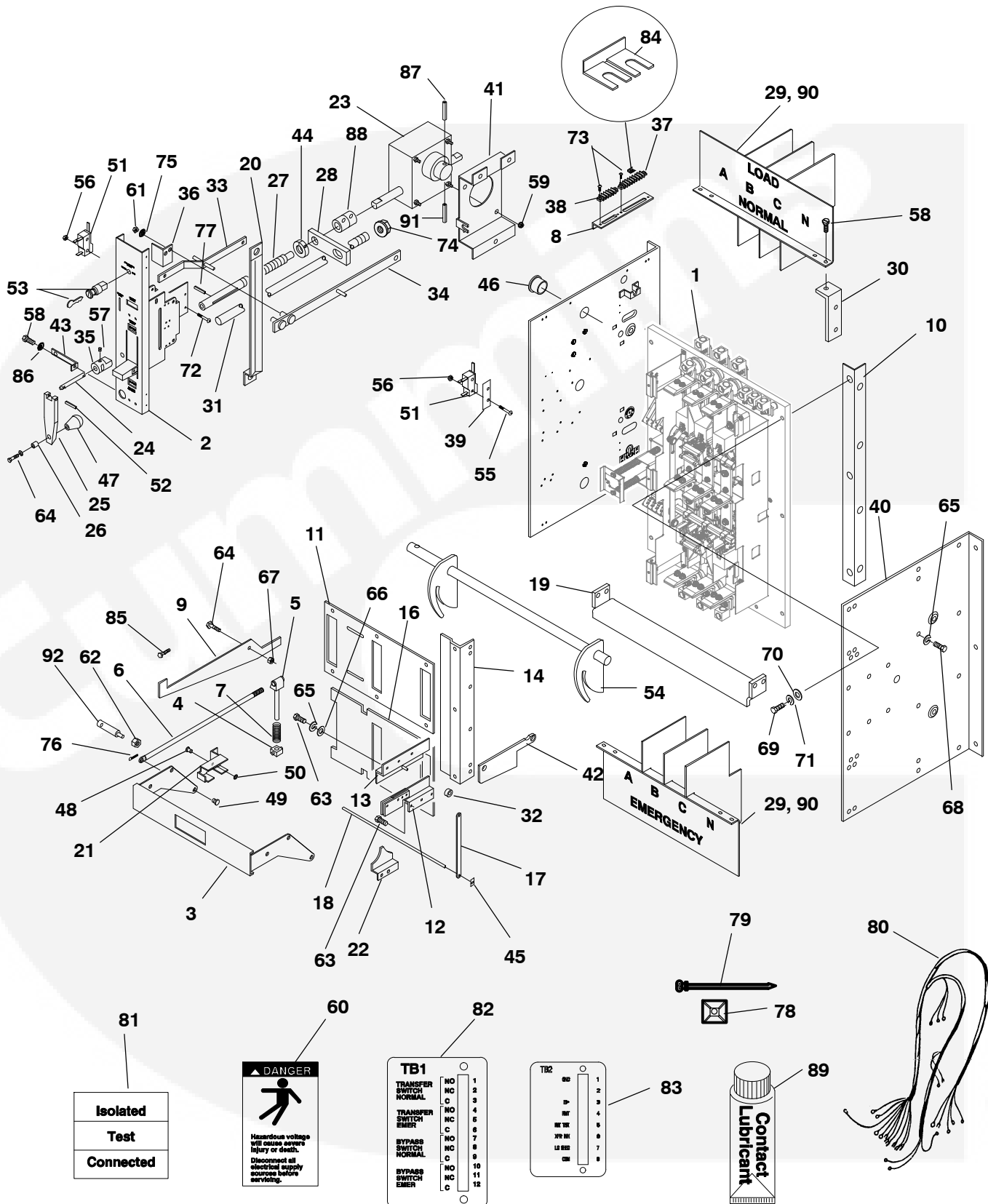
Bypass Switch 4-Pole Rear Connect



Bypass Switch 4-Pole Rear Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3677	1	Base, Insert	29	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
2	306-3770	1	Barrier, Base	30	800-0005	24	Screw, Cap – Hex Head (1/4-20 x 3/4)
3	306-4749	2	Switch Assembly, Auxiliary (See Page 24 for Components)	31	800-0006	24	Screw, Cap – Hex Head (1/4-20 x 7/8)
4			Block Assembly (See Page 25 for Components)	32	800-0008	8	Screw, Cap – Hex Head (1/4-20 x 1-1/4)
	306-5020-02	1	Normal	33	862-0001	28	Nut, Hex (1/4-20)
	306-5020-01	1	Emergency	34	850-0040	10	Washer, Lock (1/4)
5	332-2462	10	Terminal, Ring	35	526-0018	36	Washer, Flat (1/4)
6	337-2492	8	Bus, Normal/Emergency Stab	36	851-0027	60	Washer, Spring – Conical (1/4)
7	337-2501	4	Bus, Load	37	800-0026	8	Screw, Cap – Hex Head (5/16-18 x 3/4)
8	337-2490	8	Bus, Load – Stab	38	800-0028	8	Screw, Cap – Hex Head (5/16-18 x 1.00)
9	337-2525	8	Bus, Normal/Emergency Lug	39	800-0030	8	Screw, Cap – Hex Head (5/16-18 x 1.25)
10	332-2305	8	Standoff, Insulator	40	851-0028	24	Washer, Spring – Conical (5/16)
11	306-3667	1	Bar, Interlock	41	306-5021	2	Block and Contact Assembly
12	306-0509	1	Arm, Interlock	42	306-4898	2	Chute, Arc
13	306-0510	1	Arm, Interlock	43	306-4889	1	Support – Left Hand
14	337-2493	4	Bus, Jumper	44	306-4890	1	Support – Right Hand
15	306-3768	2	Handle, Bypass Switch	45	815-0157	2	Screw, Set (#10-32 x 1/4)
16	306-3717	1	Bracket, Secdisc Plug	46	813-0449	2	Screw, Machine – Round Head – Cross Recessed – W/ET (#10-32 x 3/4)
17	306-3691	1	Bracket, Secdisc Base	47	813-0111	8	Screw, Machine – Round Head (#10-32 x 2-1/4)
18	306-3713	2	Spring, Secdisc	48	306-3634	1	Bar, Support
19	516-0238	2	Pin, Clevis	49	800-0010	4	Screw, Cap – Hex Head (1/4-20 x 1-3/4)
20	516-0040	2	Pin, Cotter (3/32 x 1)	50	800-0011	2	Screw, Cap – Hex Head (1/4-20 x 2.00)
21	306-3676	3	Bracket, Shutter	51	098-6763	1	Label, Power Cable
22	306-3753	2	Bracket, Support – Spring	52	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4)
23	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10-32 x .75)	53	850-0050	6	Washer, Lock (3/8)
24	812-0162	8	Screw, Machine – Round Head (1/4-20 x 3.00)	54	526-0029	6	Washer, Flat (3/8)
25	815-0485	4	Screw, Shoulder (#10-32)				
26	850-0030	4	Washer, Lock (#10)				
27	800-0002	2	Screw, Cap – Hex Head (1/4-20 x 3/8)				
28	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)				

Bypass Frame Assembly



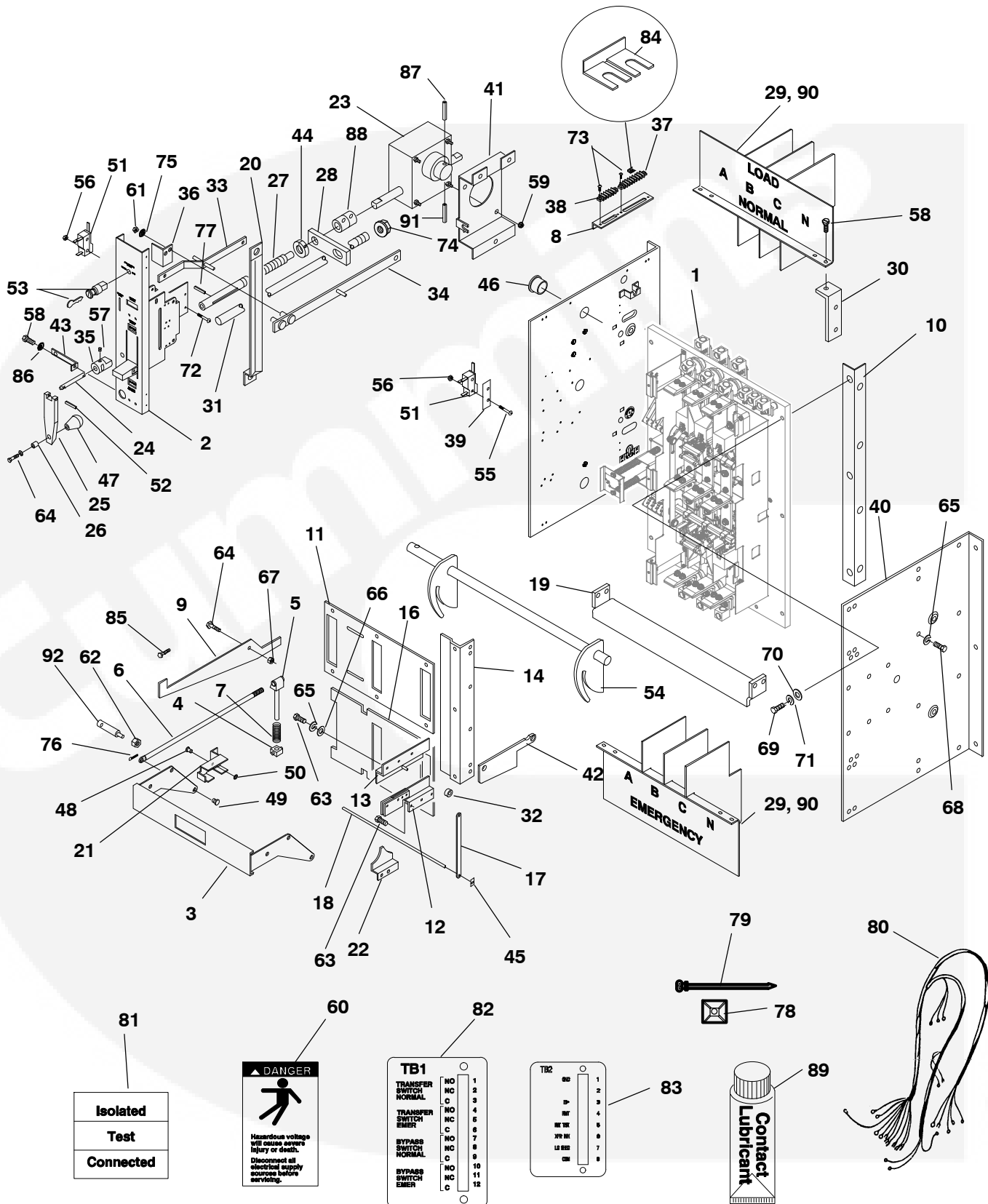
Bypass Frame Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Switch Assembly, Bypass	26	306-3733	1	Spacer, Handle
			3 Pole	27	306-3933	1	Shaft, Threaded
	306-5141	1	Front Connect	28	306-3923	1	Guide, Stop
	306-5143	1	Rear Connect	29	306-3745	2	Cover, Lug
			4 Pole	30	306-3739	4	Bracket, Lug Cover
	306-5142	1	Front Connect	31	306-3740	1	Pin, Guide
	306-5144	1	Rear Connect	32	306-3750	2	Spacer, Shutter
2	306-4500	1	Operator Assembly, Bypass (See separate page for components)	33	306-3931	1	Lever, Plunger
				34	306-3776	1	Arm, Indicator
3	306-3743	2	Bracket, Actuator	35	306-3918	1	Collar, Locking
4	306-3638	2	Guide, Plunger	36	306-4065-01	1	Plate, Indicating
5	306-3636	2	Plunger, Nylon	37	332-3059	1	Block, Terminal (TB1)
6	306-3648	2	Rod, Actuator	38	332-2832	1	Block, Terminal (TB2)
7	306-3650	2	Spring, Contact	39	306-1987	5	Barrier, Switch
8	306-3662	1	Bracket, Terminal Block	40	306-3681	1	Support, Side (Right Hand)
9	306-3665	2	Rail, Pivoting	41	306-3841	1	Bracket, Speed Reducer
10	306-3668	2	Rail, Mounting – Base	42	306-3684	2	Link, Drive
11	306-3675	1	Cover, Shutter	43	306-3769	2	Bracket, Control Panel
12			Rail, Lower	44	306-3734	2	Collar, Threaded
	306-3678	1	Right Hand	45	870-0469	4	Pushnut
	306-3687	1	Left Hand	46	508-0253	2	Bushing
13			Rail, Upper	47	406-0714	1	Ball Knob
	306-3725	1	Left Hand	48	516-0233	11	Pin, Clevis
	306-3664	1	Right Hand	49	516-0234	2	Pin, Clevis
14	306-3680	1	Bracket, Shutter	50	518-0115	13	Ring, External
15	306-3682	1	Support (Left Hand)	51	309-0611	4	Switch, Snap Action
16	306-3683	1	Cover, Moveable	52	516-0202	1	Pin, Spring (1/8 x 1)
17	306-3685	2	Link, Shutter	53	308-0957	1	Switch, Selector (Includes Key)
18	306-3686	1	Rod, Shutter		308-0989	1	Key
19	306-3688	2	Bracket, Support	54	306-3936	1	Arm, Weldment
20	306-3702	2	Bar, Interlock	55	812-0068	4	Screw, Machine – Round Head (#6-32 x 1)
21			Bracket, Stop	56	870-0183	8	Nut, Hex (#6-32)
	306-3991-01	1	Right Hand	57	815-0157	2	Screw, Set (#10-32 x 1/4)
	306-3992-01	1	Left Hand	58	815-0652	20	Screw, Hex Head Slotted (#10-32 x 1/2)
22			Bracket, Trip	59	870-0212	4	Nut, Self-Locking – Flange (1/4-20)
	306-4090-01	2	Right Hand				
	306-4089-01	1	Left Hand				
23	306-3842	1	Reducer, Speed				
24	306-3731	1	Shaft, Draw-out				
25	306-3732	1	Lever, Crank				

Continued...



Bypass Frame Assembly



81

Isolated
Test
Connected

60

▲ DANGER

Hazardous voltages will cause severe injury or death. Disconnect all electrical supply sources before servicing.

82

TB1

TRANSFER SWITCH NORMAL	1
NO	2
NC	3
C	4
TRANSFER SWITCH EMER	5
NO	6
NC	7
C	8
BYPASS SWITCH NORMAL	9
NO	10
NC	11
C	12

83

TB2

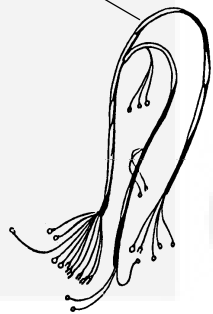
NO	1
NO	2
NO	3
NO	4
NO	5
NO	6
NO	7
NO	8
NO	9
NO	10
NO	11
NO	12

79

78

89

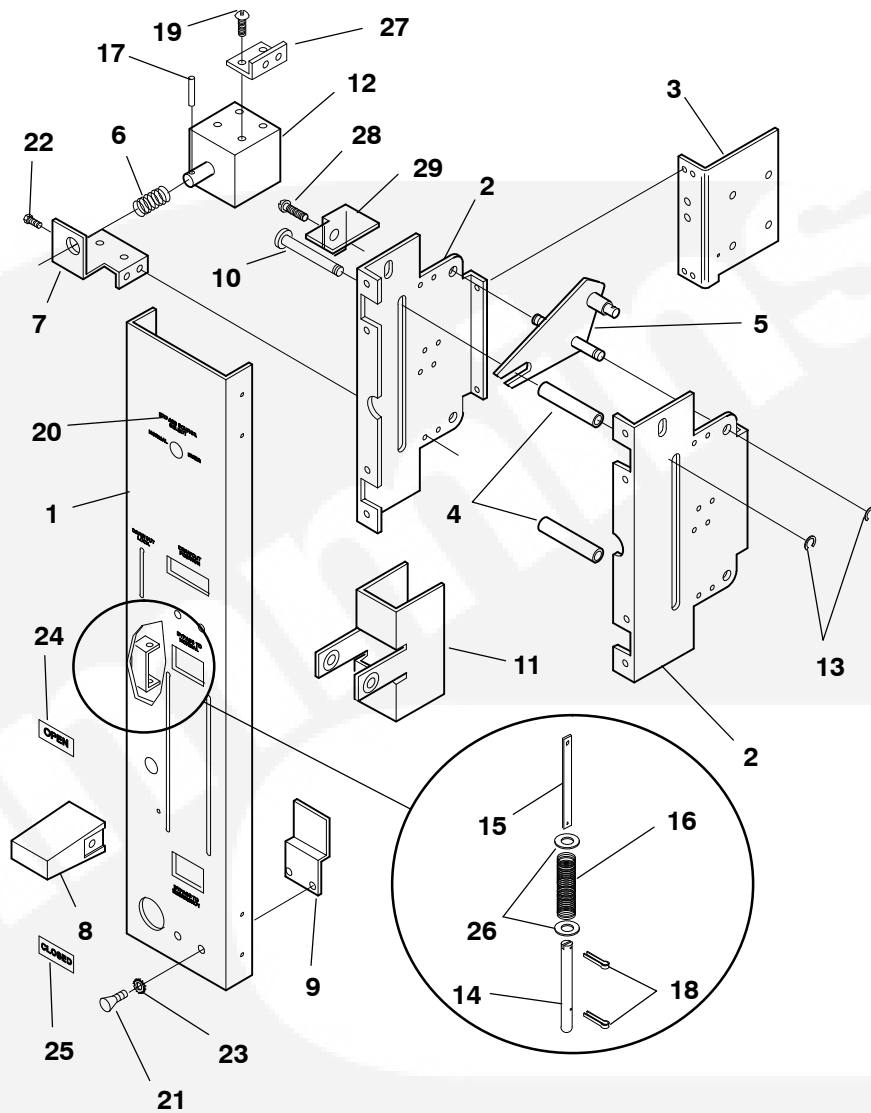
Contact Lubricant



Bypass Frame Assembly

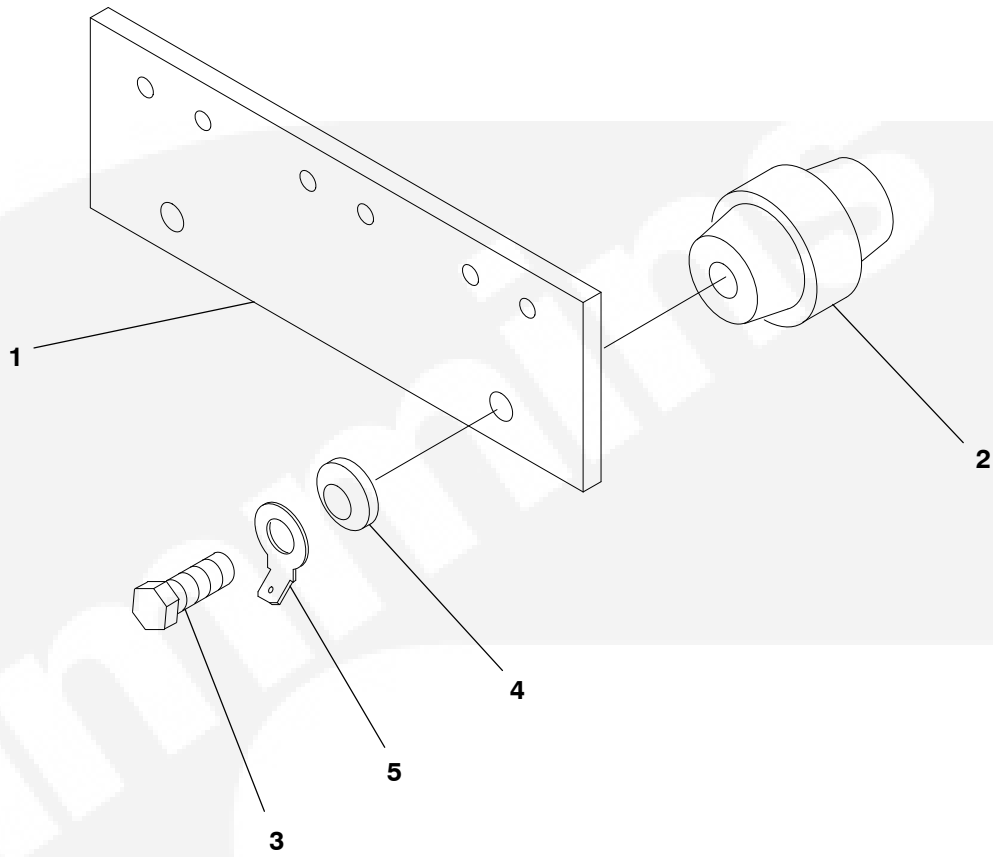
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				75	526-0009	2	Washer, Flat (#10)
60	098-5387	1	Label, Danger	76	516-0042	2	Pin, Cotter
61	870-0188	2	Nut, Locking (#10-32)	77	516-0253	1	Pin, Grooved
62	870-0048	2	Nut, Lock (5/16-18)	78	332-2420	6	Mount, Tie - Cable
63	815-0290	43	Screw, Cap - Hex Head (1/4-20 x 5/8)	79	332-0941	7	Tie, Cable
64	800-0005	3	Screw, Cap - Hex Head (1/4-20 x 3/4)	80	338-3809-01		Harness, Wiring - Bypass Frame
65	850-0040	12	Washer, Lock (1/4)	81	098-6643	1	Label, Position - Transfer Switch
66	526-0018	11	Washer, Flat (1/4)	82	332-3091	1	Strip, Marker (TB1)
67	870-0065	8	Nut, Locking (1/4-20)	83	332-3786	1	Strip, Marker (TB2)
68	815-0261	5	Screw, Hex Washer Head - Thread Forming (1/4-20 x 1/2)	84	332-2605	1	Jumper, Terminal
69	800-0051	6	Screw, Cap - Hex Head (3/8-16 x 1-1/4)	85	815-0795	2	Screw, Socket Head - Shoulder (#6-32)
70	526-0029	6	Washer, Flat (3/8)	86	526-0012	2	Washer, Flat (#10)
71	850-0050	6	Washer, Lock (3/8)	87	516-0104	1	Pin, Roll (1/4 x 1-1/2)
72	812-0072	2	Screw, Round Head (#6-32 x 1-3/4)	88	306-3965	1	Coupling, Speed Reducer
73	815-0651	4	Screw, Machine - Round Head (Thread Rolling) (#6-32 x 3/4)	89	524-0659	A/R	Lubricant, Contact
74	870-0257	2	Nut, Self Locking - Flange (5/16-18)	90			Label, Cover - Lug Normal
					098-6376	1	Front Connect
					098-6764	1	Rear Connect
					098-6377	1	Emergency
				91	516-0255	1	Pin, Roll (5/32 x 1)
				92	516-0235	2	Pin, Clevis

Bypass Operator



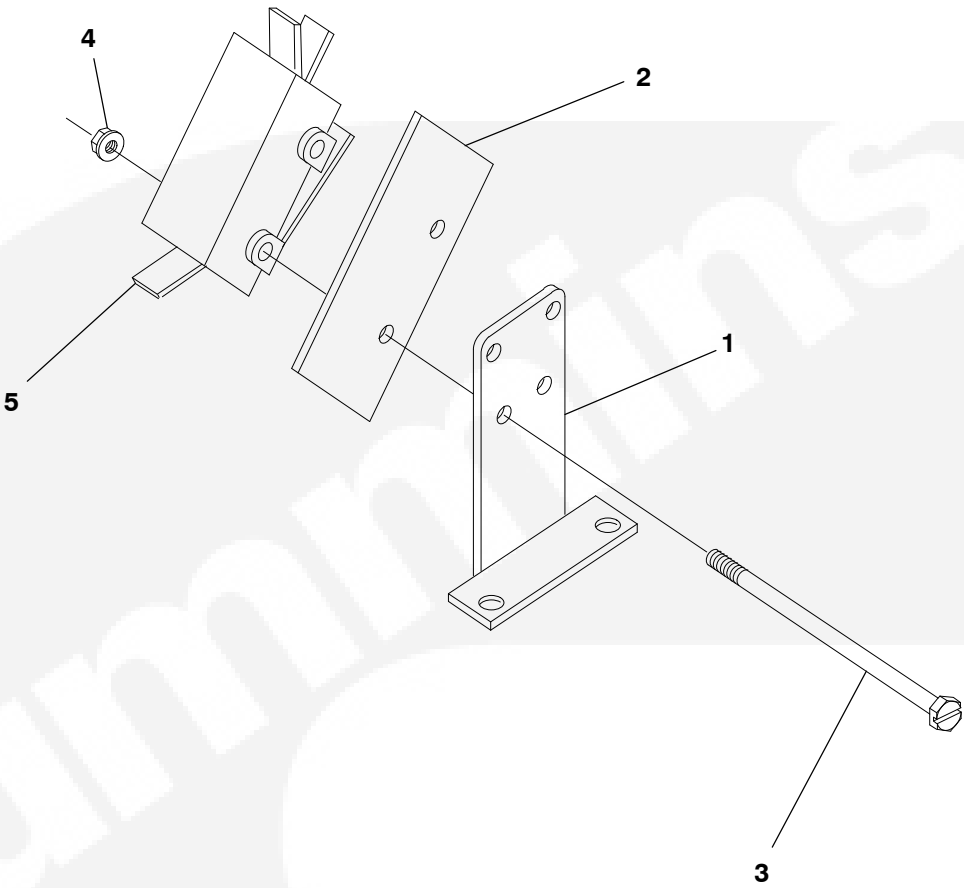
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-4499-02	1	Cover	17	516-0151	2	Pin, Roll – Solenoid
2	306-3929	2	Bracket, Actuator	18	516-0037	2	Pin, Cotter (1/16)
3	306-3646	1	Bracket, Support	19	815-0285	8	Screw, Machine – Round Head (#8-32 x 5/16)
4	306-3651	2	Bushing	20	098-7307	1	Label, Operator Panel
5			Arm, Pivot	21	815-0029	6	Screw, Flat Head – Cross Recessed (#10-32 x 1/2)
	306-3652	1	Right Hand	22	815-0652	12	Screw, Hex Head – Slotted (#10-32 x 1/2)
	306-3653	1	Left Hand	23	855-0008	6	Washer – ET (#10)
6	306-3726	2	Spring, Solenoid	24	098-6350	2	Label, Open
7	306-3741	2	Bracket, Solenoid	25	098-6351	2	Label, Closed
8	306-3751	1	Handle, Actuator	26	526-0018	4	Washer, Flat (1/4)
9	306-3754	2	Plate, Indicating	27	306-3833	2	Bracket, Solenoid
10	516-0237	2	Pin, Plunger Clevis	28	815-0446	1	Screw, Round Head – Cross Recessed (#8-32 x 1/2)
11	306-3926	1	Bracket	29	306-4067-01	1	Bracket, Stop
12	307-2712	2	Solenoid				
13	518-0115	6	Ring, Retaining				
14	306-3921	1	Plunger				
15	306-3920	1	Link, Plunger				
16	306-3930	1	Spring, Plunger				

Neutral Bar



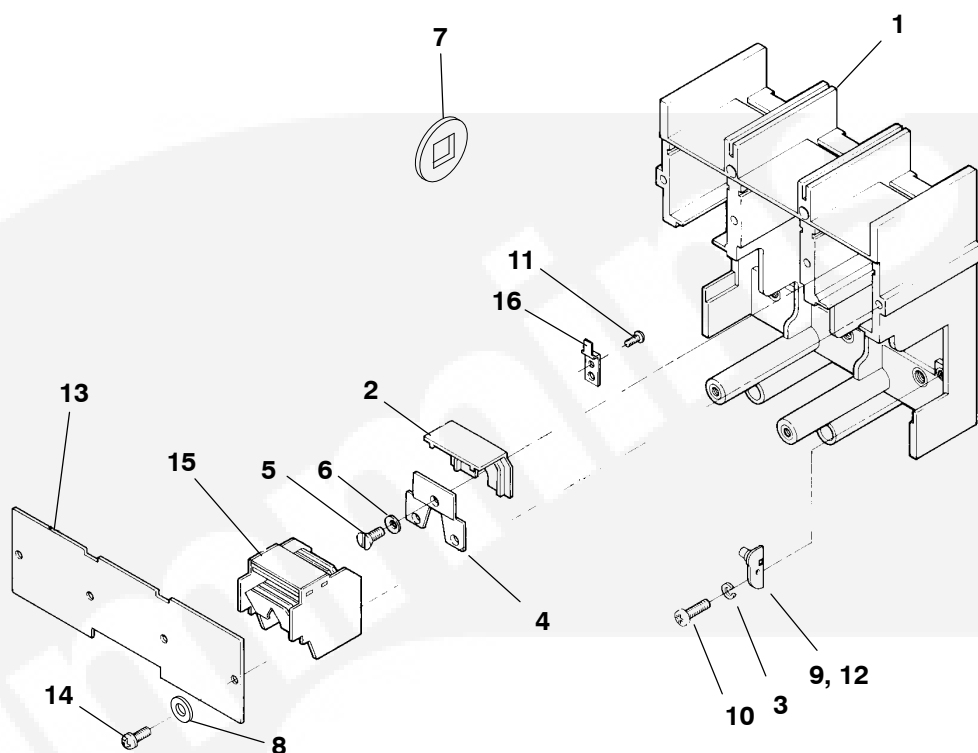
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2511	1	Bar, Neutral	4	851-0022	2	Washer, Conical – Spring (3/8)
2	332-2744-07	2	Standoff, Insulator	5	332-2564	1	Ring, Terminal
3	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8)				

Auxiliary Switch Assembly



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

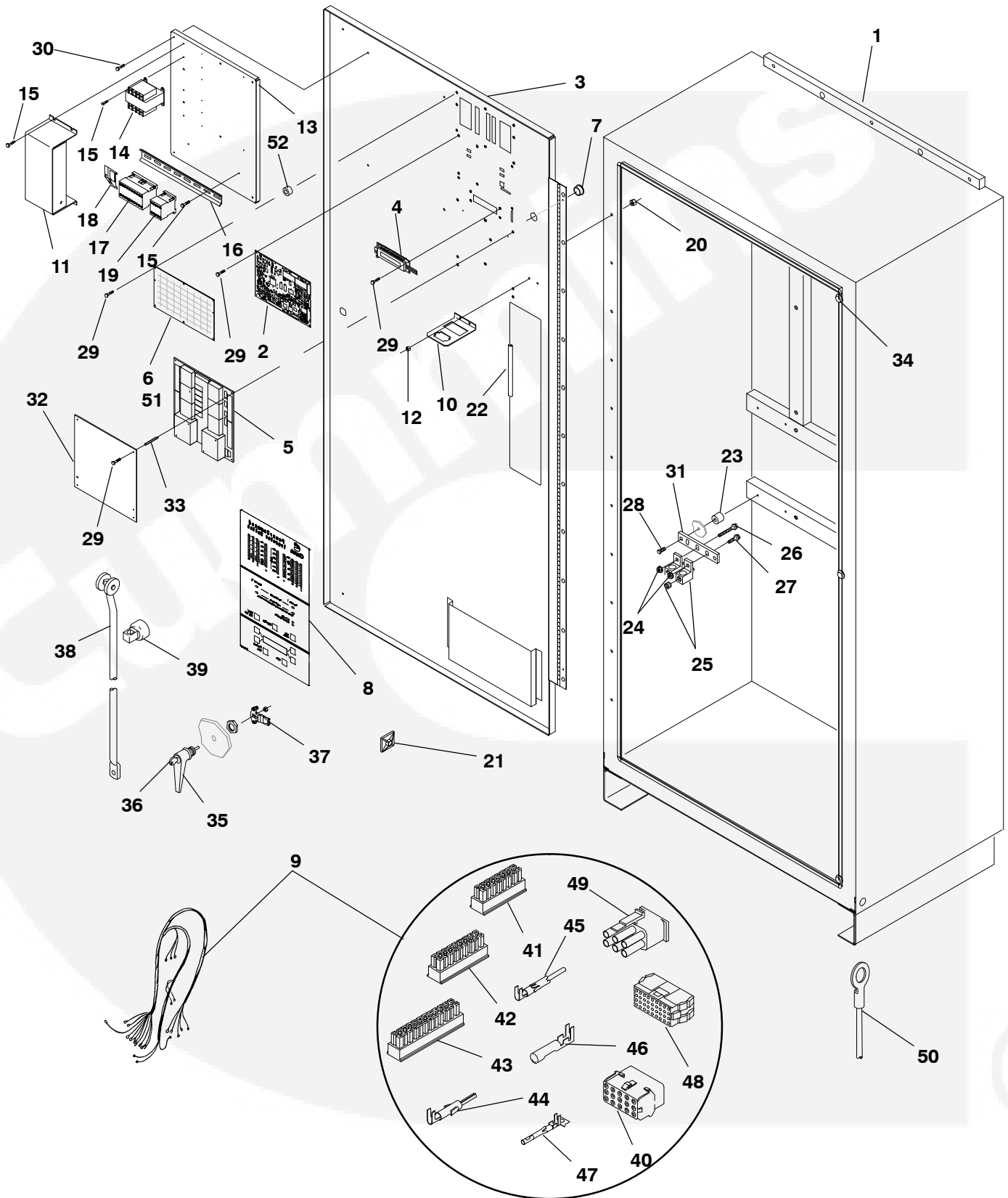
Block Assembly (Normal & Emergency)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Block Assembly (Includes Parts Marked *)	8	526-0062	4	*Washer, Flat (#10)
			3 Pole	9	306-4890	1	*Support, Right Hand
			Normal	10	815-0832	6	*Screw, Lock - Button Head Cap Screw (#10-32 x 3/4)
			Emergency	11	815-0285	3	*Screw, Round Head - w/ET (#8-32 x 5/16)
			4 Pole	12	306-4889	1	*Support, Left Hand
			Normal	13			*Cover, Chute - Arc
			Emergency		306-3097	1	3 Pole
1	306-3105	1	*Block Assembly, Component		306-3422	1	4 Pole
2	306-4900	3	*Boot, Insulator	14	815-0801	4	*Screw, Pan Head - Thread Cutting
3	856-0030	6	*Washer, Lock - w/EIT (#10)	15	306-4898	3	*Chute, Arc
4	306-4899	3	*Runner, Arc	16	332-2366	3	*Terminal
5	815-0558	9	*Screw, Machine - Flat Head (#8-32 x 3/4)				
6	855-0004	6	*Washer, Lock - EIT (#8)				
7	306-3901	1	*Spacer				

* Parts included in Block Assembly

Cabinet Type 1

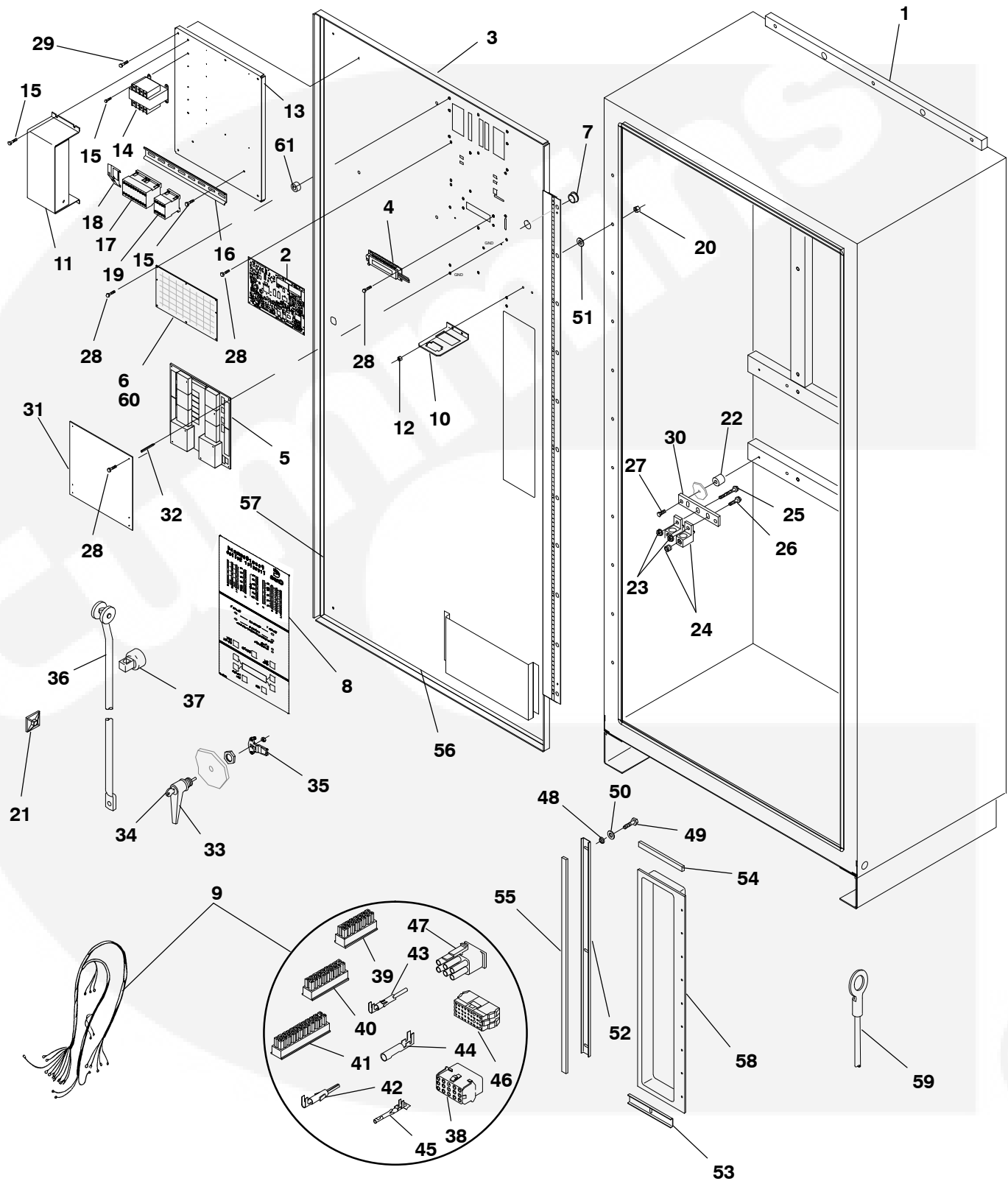


Cabinet Type 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4304-02	1	Box, Control	28	815-0567	2	Screw, Hex Head – Thread Cutting (5/16–18 x 1.25)
2	300-5147-01	1	Board, Printed Circuit – Digital	29	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)
3	319-4157-02	1	Door, Control	30	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
4	300-5151	1	Module, Digital Display	31	332-0772	1	Connector, Neutral Bar
5			Board, Printed Circuit – Power Module	32	306-4523	1	Cover, Printed Circuit Board
	300-5149-06	1	208/220/240/440/480 VAC	33	870-2216	4	Standoff, Male Snap
	300-5149-07	1	600 VAC	34	508-0231	3	Bumper
	300-5149-08	1	190/380/416 VAC	35	406-0613	1	Handle, Door (Includes Key)
6	300-5180	1	Board, Printed Circuit – Bar Graph	36	406-0649	1	Key, Replacement
7	517-0137	5	Plug, Hole	37	306-3525	1	Latch, Cam (3 Point)
8			Panel, Membrane	38	306-3526-06	2	Rod, Roller
	300-5186	1	Without Bar Graph	39	306-3467	2	Rod, Guide
	300-5271	1	With Bar Graph	40	323-1253	1	* Cap, Connector (15 Pin) (J10)
9	338-3902	1	Harness, Control (Includes Parts Marked *)	41	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
10	306-3654	1	Bracket, Control Plug	42	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
11	319-4176-02	1	Cover, Panel	43	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
12	862-0026-53	2	Nut, Hex (M5)	44	323-1199	1	* Pin, Contact (P6)
13	319-4177-02	1	Panel, Control – Mounting	45	323-1703	2	* Pin, Contact (P6)
14			Transformer, Power	46	323-1200	13	* Socket, Contact (J10)
	315-0693-02	2	190/208/220/240/480 VAC	47	332-3606	20	* Socket, Contact (J12, J13, J27)
	315-0693-03	2	380/416 VAC	48	323-1525	1	* Plug, Connector (36 Place) (J1)
	315-0693-04	2	600 VAC	49	323-1317	1	* Plug, Connector (6 Place) (P6)
15	815-0652	14	Screw, Hex Head – Thread Forming (10–32 x .50)	50			Lead (Quantity Used as Required)
16	332-3087	1	Rail, Terminal		226-3554-01	1	6.0"
17	307-2877	2	Contact, Interlocking		226-3554-02	1	3.0"
18	332-2878	4	Bracket, End – Terminal	51	319-4139-01	1	Plate, Display Cover – Blank
19	307-2875	1	Relay, Control – 24 VAC	52	870-2218-01	4	Standoff, Nylon
20	870-0240	11	Nut, Self-Locking (10–32)				
21	332-2420	8	Mount, Cable Tie				
22	508-1067-01	1	Edging				
23	332-1348	2	Spacer, Neutral Bar				
24	870-0212	3	Nut, Hex – Locking (1/4–20)				
25	332-2880	3	Lug, Solderless				
26	821-0012	1	Screw, Self-Locking – Flange Head (1/4–20 x 1-1/8)				
27	821-0018	2	Screw, Self-Locking – Flange Head (1/4–20 x 5/8)				

* Parts Included in 338-3902 Wiring Harness

Cabinet Type 3R and 12

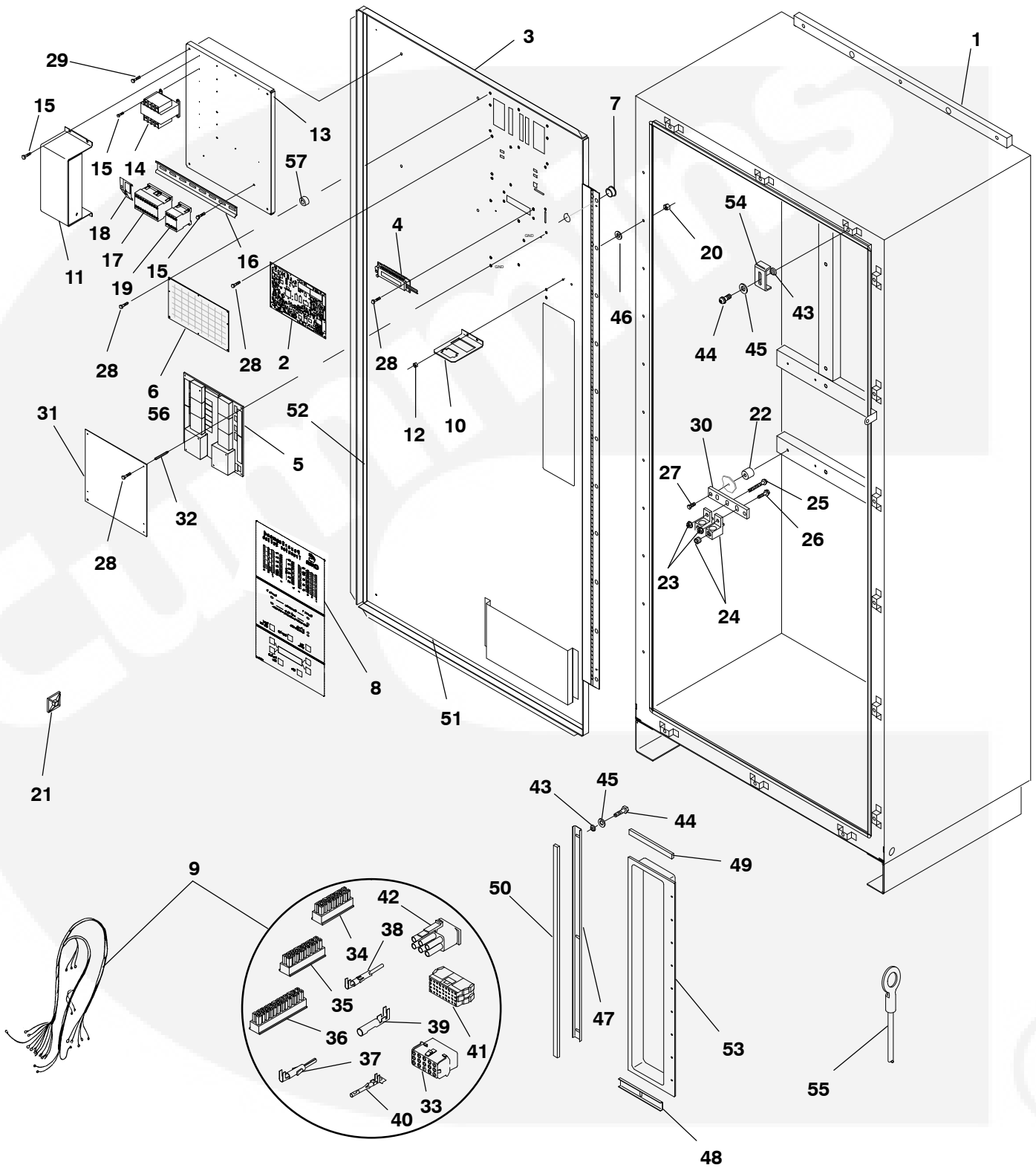


Cabinet Type 3R and 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Control	29	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
	319-4305-02	1	Type 3R	30	332-0772	1	Connector, Neutral Bar
	319-4305-04	1	Type 12	31	306-4523	1	Cover, Printed Circuit Board
2	300-5147-01	1	Board, Printed Circuit – Digital	32	870-2216	4	Standoff, Male Snap
3	319-4159-02	1	Door, Control	33	406-0613	1	Handle, Door (Includes Key)
4	300-5151	1	Module, Digital Display	34	406-0649	1	Key, Replacement
5			Board, Printed Circuit – Power Module	35	306-3525	1	Latch, Cam (3 Point)
	300-5149-06	1	208/220/240/440/480 VAC	36	306-3526-06	2	Rod, Roller
	300-5149-07	1	600 VAC	37	306-3467	2	Rod, Guide
	300-5149-08	1	190/380/416 VAC	38	323-1253	1	* Cap, Connector (15 Pin) (J10)
6	300-5180	1	Board, Printed Circuit – Bar Graph	39	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
7	517-0266	5	Plug, Hole	40	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
8			Panel, Membrane	41	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
	300-5392	1	Without Bar Graph	42	323-1199	1	* Pin, Contact (P6)
	300-5393	1	With Bar Graph	43	323-1703	2	* Pin, Contact (P6)
9	338-3902	1	Harness, Control (Includes Parts Marked *)	44	323-1200	13	* Socket, Contact (J10)
10	306-3654	1	Bracket, Control Plug	45	332-3606	20	* Socket, Contact (J12, J13, J27)
11	319-4176-02	1	Cover, Panel	46	323-1525	1	* Plug, Connector (36 Place) (J1)
12	862-0026-53	2	Nut, Hex (M5)	47	323-1317	1	* Plug, Connector (6 Place) (P6)
13	319-4177-02	1	Panel, Control – Mounting	48	406-0519	5	Spring, Conical
14			Transformer, Power	49	812-0177	5	Screw, Round Head (5/16-18 x .75)
	315-0693-02	2	190/208/220/240/480 VAC	50	526-0022	5	Washer, Flat (5/16)
	315-0693-03	2	380/416 VAC	51	508-0233	11	Washer, Rubber
	315-0693-04	2	600 VAC	52	319-1531-01	1	Clamp, Cover
15	815-0652	14	Screw, Hex Head – Thread Forming (10-32 x .50)	53	319-1530-01	2	Clamp, Cover
16	332-3087	1	Rail, Terminal	54	895-0329-01	2	Gasket, Door
17	307-2877	2	Contact, Interlocking	55	895-0329-02	2	Gasket, Door
18	332-2878	4	Bracket, End – Terminal	56	895-0328-01	2	Gasket, Door
19	307-2875	1	Relay, Control – 24 VAC	57	895-0328-03	2	Gasket, Door
20	870-0240	11	Nut, Self-Locking (10-32)	58	319-4441	1	Cover, Operator Panel
21	332-2420	8	Mount, Cable Tie	59			Lead (Quantity Used as Required)
22	332-1348	2	Spacer, Neutral Bar		226-3554-01	1	6.0"
23	870-0212	3	Nut, Hex – Locking (1/4-20)		226-3554-02	1	3.0"
24	332-2880	3	Lug, Solderless	60	319-4139-01	1	Plate, Display Cover – Blank
25	821-0012	1	Screw, Self-Locking – Flange Head (1/4-20 x 1-1/8)	61	870-2218-01	4	Standoff, Nylon
26	821-0018	2	Screw, Self-Locking – Flange Head (1/4-20 x 5/8)				
27	815-0567	2	Screw, Hex Head – Thread Cutting (5/16-18 x 1.25)				
28	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)				

* Parts Included in 338-3902 Wiring Harness

Cabinet Type 4 and 4X



Cabinet Type 4 and 4X

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4306-02	1	Box, Control Type 4	28	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)
	319-6657	1	Type 4X	29	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
2	300-5147-01	1	Board, Printed Circuit – Digital	30	332-0772	1	Connector, Neutral Bar
3	319-4161-02	1	Door, Control Type 4	31	306-4523	1	Cover, Printed Circuit Board
	319-6660	1	Type 4X	32	870-2216	4	Standoff, Male Snap
4	300-5151	1	Module, Digital Display	33	323-1253	1	* Cap, Connector (15 Pin) (J10)
5			Board, Printed Circuit – Power Module	34	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
	300-5149-06	1	208/220/240/440/480 VAC	35	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
	300-5149-07	1	600 VAC	36	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
	300-5149-08	1	190/380/416 VAC	37	323-1199	1	* Pin, Contact (P6)
6	300-5180	1	Board, Printed Circuit – Bar Graph	38	323-1703	2	* Pin, Contact (P6)
7	517-0266	5	Plug, Hole	39	323-1200	13	* Socket, Contact (J10)
8	300-5392	1	Panel, Membrane Without Bar Graph	40	332-3606	20	* Socket, Contact (J12, J13, J27)
	300-5393	1	With Bar Graph	41	323-1525	1	* Plug, Connector (36 Place) (J1)
9	338-3902	1	Harness, Control (Includes Parts Marked *)	42	323-1317	1	* Plug, Connector (6 Place) (P6)
10	306-3654	1	Bracket, Control Plug	43	506-0031	17	Spring, Conical
11	319-4176-02	1	Cover, Panel	44	800-0317	17	Screw, Round Head (5/16-18 x .75)
12	862-0026-53	2	Nut, Hex (M5)	45	526-2319	17	Washer, Flat (5/16)
13	319-4177-02	1	Panel, Control – Mounting	46	508-0233	11	Washer, Rubber
14			Transformer, Power	47	319-6850	1	Clamp, Cover
	315-0693-02	2	190/208/220/240/480 VAC	48	319-6849	2	Clamp, Cover
	315-0693-03	2	380/416 VAC	49	895-0329-01	2	Gasket, Door
	315-0693-04	2	600 VAC	50	895-0329-02	2	Gasket, Door
15	815-0652	14	Screw, Hex Head – Thread Forming (10-32 x .50)	51	895-0328-01	2	Gasket, Door
16	332-3087	1	Rail, Terminal	52	895-0328-03	2	Gasket, Door
17	307-2877	2	Contact, Interlocking	53	319-4441	1	Cover, Operator Panel
18	332-2878	4	Bracket, End – Terminal	54	319-4725	12	Bracket, Door
19	307-2875	1	Relay, Control – 24 VAC	55			Lead (Quantity Used as Required)
20	870-0240	11	Nut, Self-Locking (10-32)		226-3554-01	1	6.0"
21	332-2420	8	Mount, Cable Tie		226-3554-02	1	3.0"
22	332-1348	2	Spacer, Neutral Bar	56	319-4139-01	1	Plate, Display Cover – Blank
23	870-0212	3	Nut, Hex – Locking (1/4-20)	57	870-2218-01	4	Standoff, Nylon
24	332-2880	3	Lug, Solderless				
25	821-0012	1	Screw, Self-Locking – Flange Head (1/4-20 x 1-1/8)				
26	821-0018	2	Screw, Self-Locking – Flange Head (1/4-20 x 5/8)				
27	815-0567	2	Screw, Hex Head – Thread Cutting (5/16-18 x 1.25)				

* Parts Included in 338-3902 Wiring Harness

Plate – Open Construction

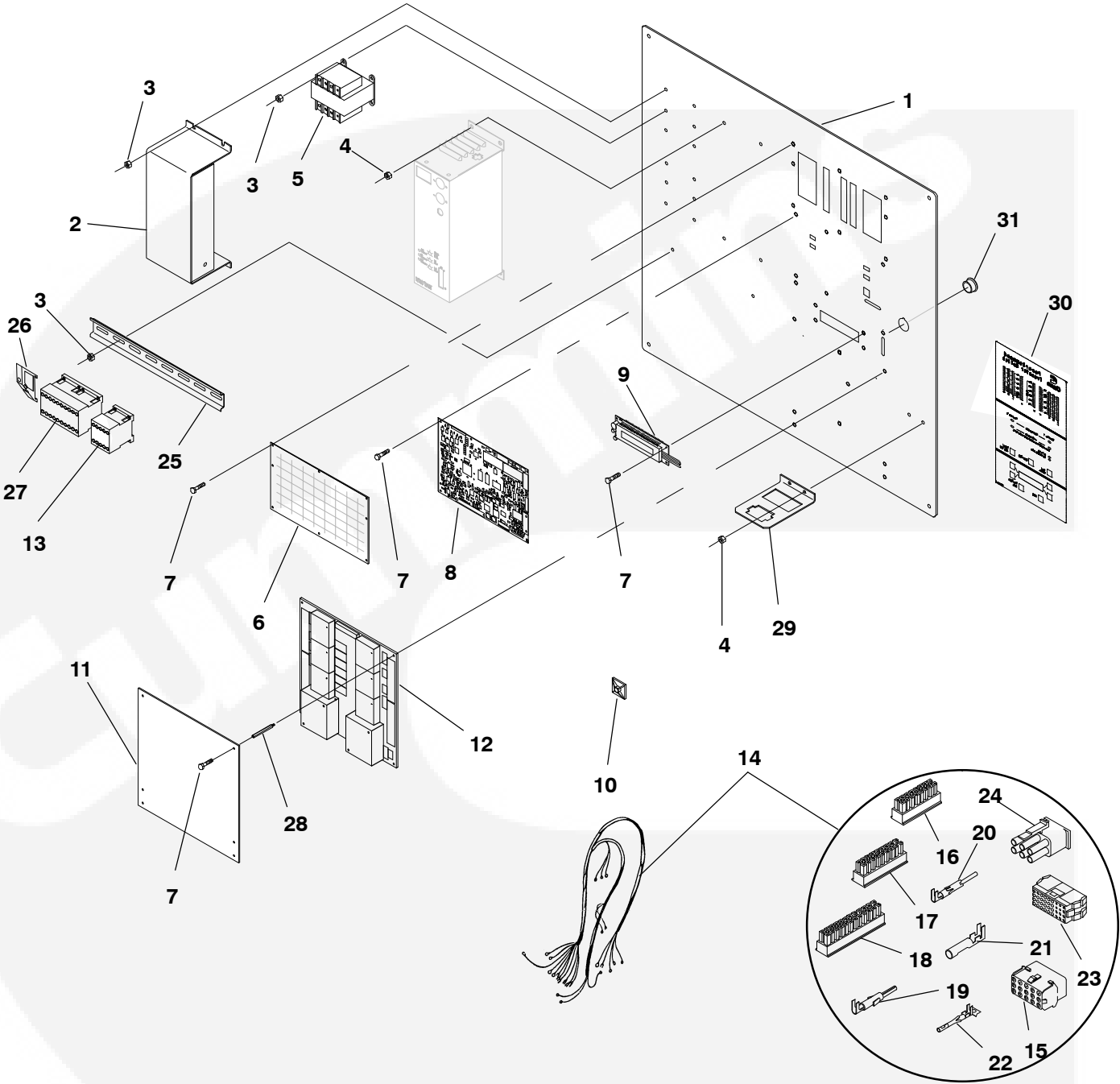
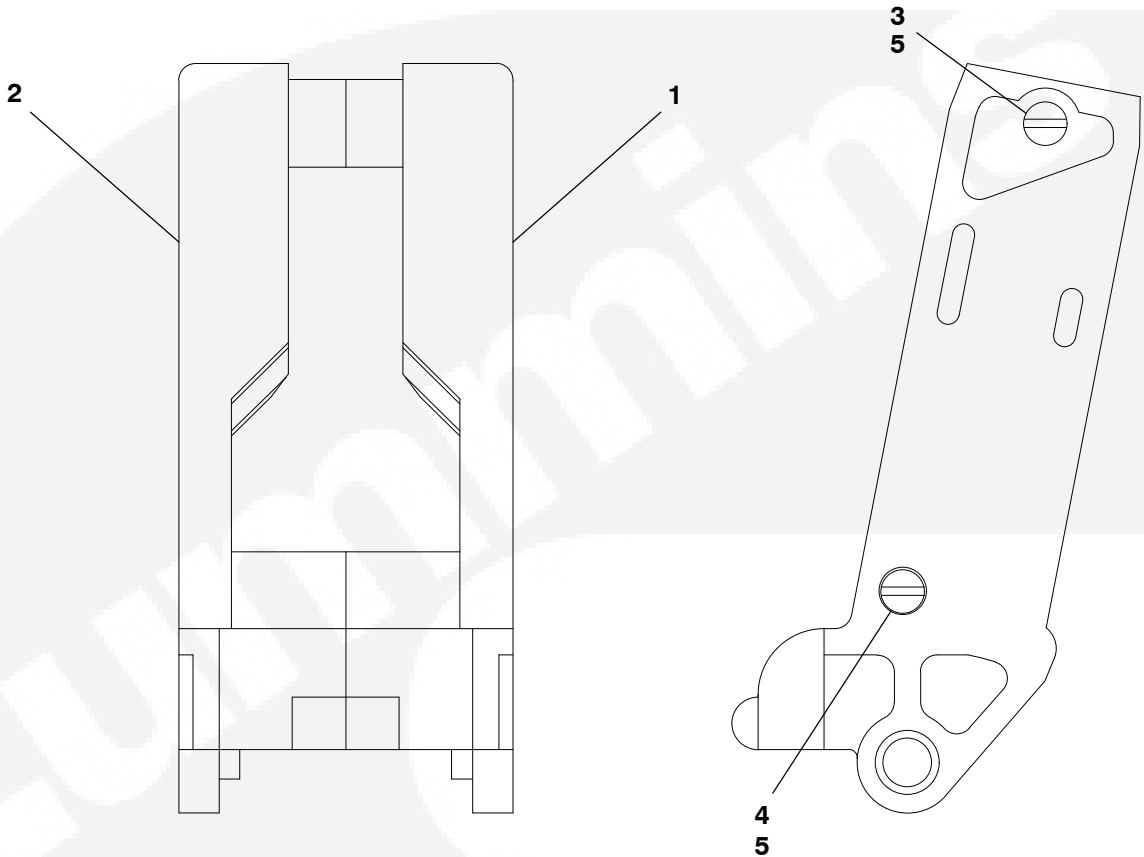


Plate – Open Construction

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4184-02	1	Plate, Open Construction	16	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
2	319-4176-02	1	Cover, Panel	17	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
3	860-2005	14	Nut, Hex (M4 x 0.7)	18	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
4	862-0026-53	6	Nut, Hex (M5 x 0.8)	19	323-1199	1	* Pin, Contact (P6)
5			Transformer, Power	20	323-1703	2	* Pin, Contact (P6)
	315-0693-02	2	190/208/220/240/480 VAC	21	323-1200	13	* Socket, Contact (J10)
	315-0693-03	2	380/416 VAC	22	332-3606	20	* Socket, Contact (J12, J13, J27)
	315-0693-04	2	600 VAC	23	323-1525	1	* Plug, Connector (36 Place) (J1)
6	300-5180	1	Board, Printed Circuit – Bar Graph	24	323-1317	1	* Plug, Connector (6 Place) (P6)
7	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)	25	332-3087	1	Rail, Terminal
8	300-5147-01	1	Board, Printed Circuit – Digital	26	332-2878	4	Bracket, End – Terminal
9	300-5151	1	Module, Digital Display	27	307-2877	2	Contact, Interlocking
10	332-2420	3	Mount, Cable Tie	28	870-2216	4	Standoff, Male Snap
11	306-4523	1	Cover, Printed Circuit Board	29	306-3654	1	Bracket, Control Plug
12			Board, Printed Circuit – Power Module	30			Panel, Membrane
	300-5149-06	1	208/220/240/440/480 VAC		300-5392	1	Without Bar Graph
	300-5149-07	1	600 VAC		300-5393	1	With Bar Graph
	300-5149-08	1	190/380/416 VAC	31	517-0266	1	Plug, Hole
13	307-2875	1	Relay, Control – 24 VAC				
14	338-3902	1	Harness, Control (Includes Parts Marked *)				
15	323-1253	1	* Cap, Connector (15 Pin) (J10)				

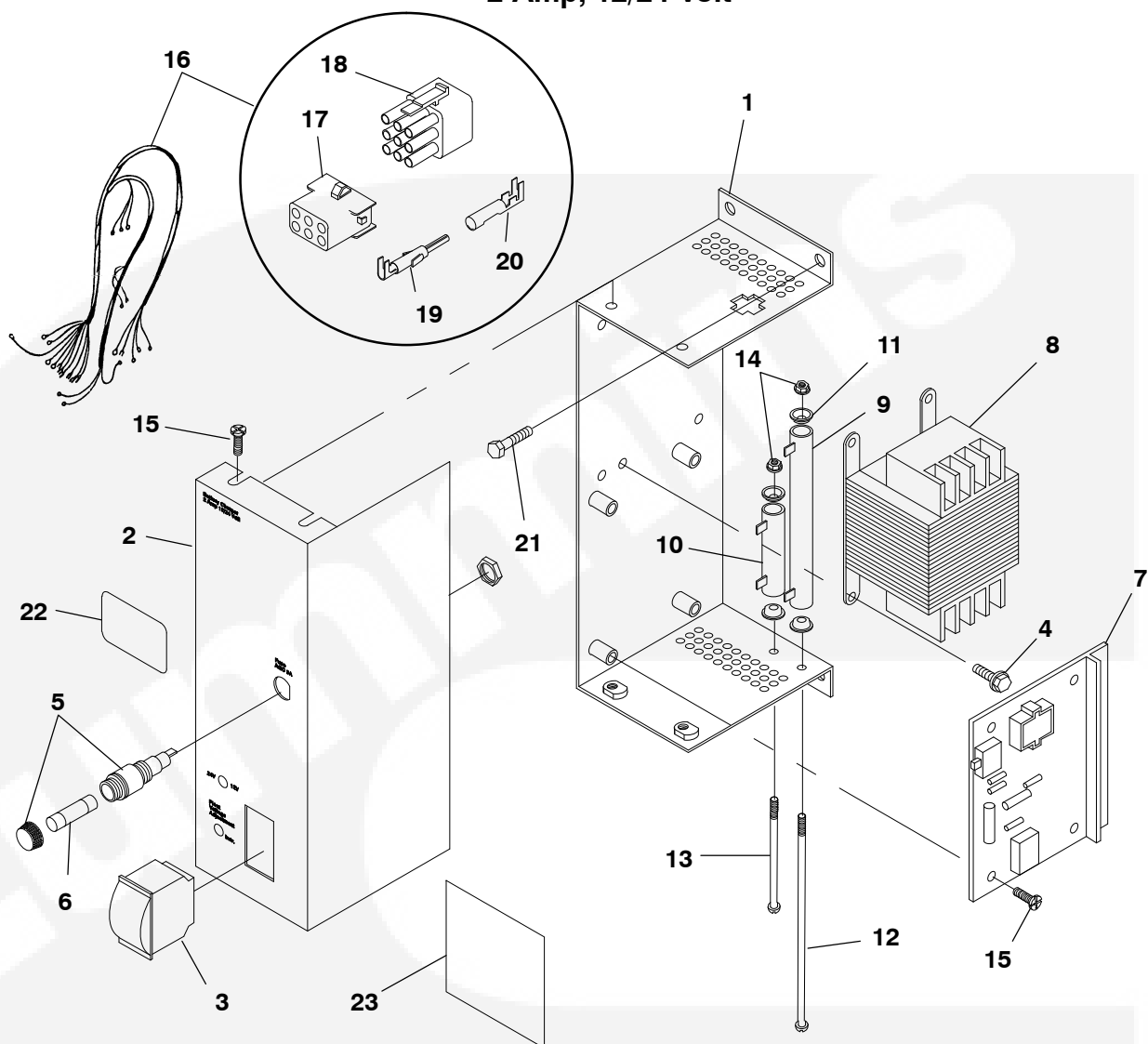
* Parts Included in 338-3902 Wiring Harness

Actuator Handle Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-3724	2	Handle Assembly, Actuator	4	815-0932	1	Screw, Machine – Round Head
1	306-3630	1	Handle, Switch – Left Hand				– Cross Recessed
2	306-3629	1	Handle, Switch – Right Hand				(#8-32 x 2.25)
3	815-0931	1	Screw, Machine – Round Head	5	870-0235	2	Nut, Self-Locking (#8-32)
			– Cross Recessed				
			(#8-32 x 1.25)				

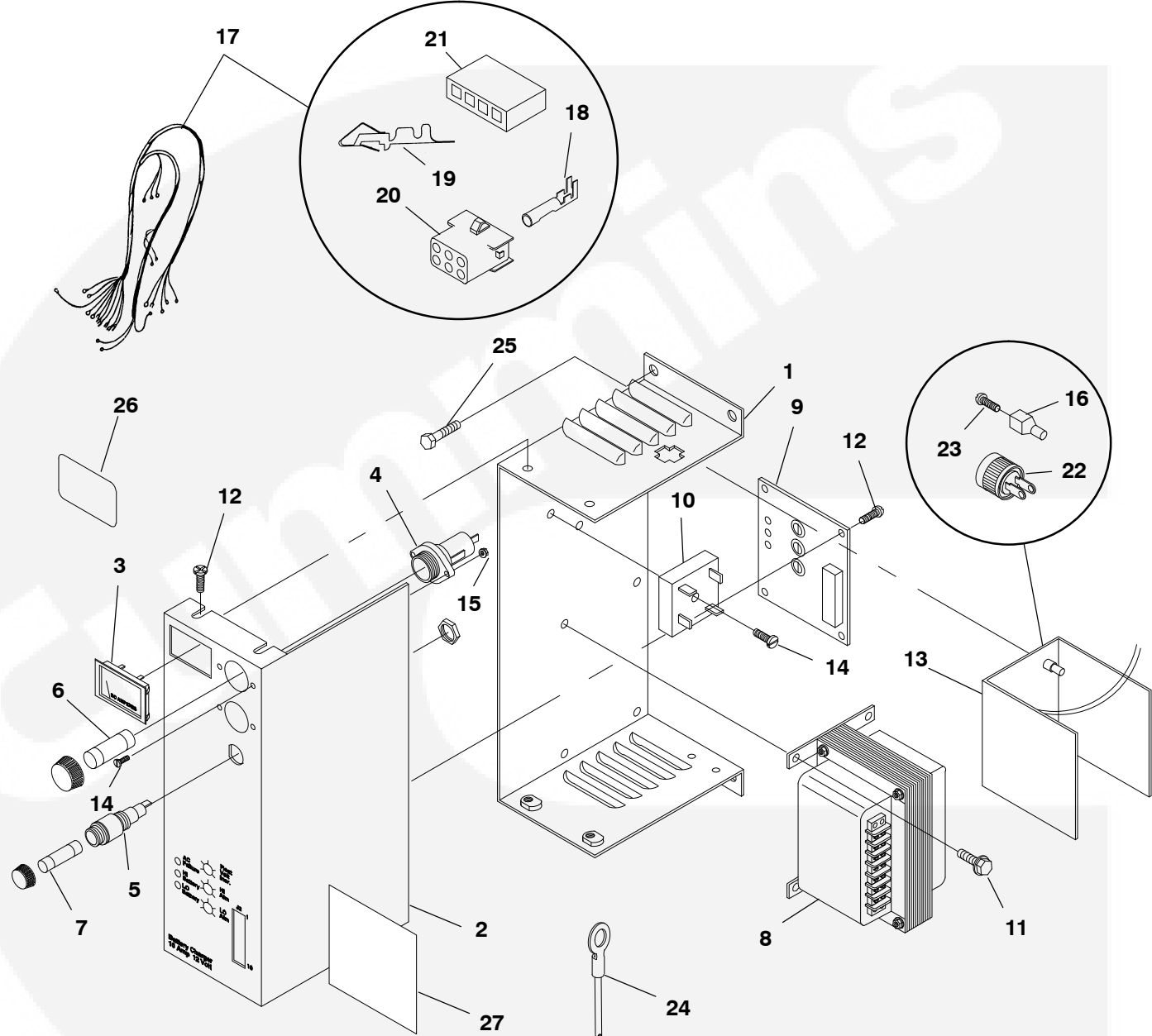
Battery Charger 2 Amp, 12/24 Volt



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9990	1	Wrapper, Charger – Battery	14	870-0131	2	Nut, Hex – W/ET (#10-32)
2	301-9991	1	Cover, Charger – Battery	15	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET (#6-32 x 3/8)
3	302-0807	1	Ammeter, DC	16	338-2149	1	Harness, Wiring (Includes Parts Marked #)
4	821-0040	4	Screw, Machine – Locking Head Slotted (#10-32 x 5/16)	17	323-1318	1	*Cap, 6 pin (J6)
5	321-0175	1	Holder, Fuse	18	323-1291	1	*Plug, 9 pin (P9)
6	321-0153	1	Fuse, 3 Amp	19	323-1199	A/R	*Pin, Terminal
7	300-2946	1	Board, Printed Circuit	20	323-1200	A/R	*Socket, Terminal
8			Transformer	21	815-0652	4	Screw, Hex Head – Thread Forming (10-32 x .50)
	315-0621-02	1	208/240/480 Volt	22	099-2485	1	Label, Name Plate
	315-0621-03	1	380/416 Volt	23	098-5708	1	Label, Charger
	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)				
13	813-0112	1	Screw, Machine – Round Head (#10-32 x 2-1/2)				

* – Parts Included in 338-2149 Wiring Harness

Battery Charger
10 Amp, 12 Volt



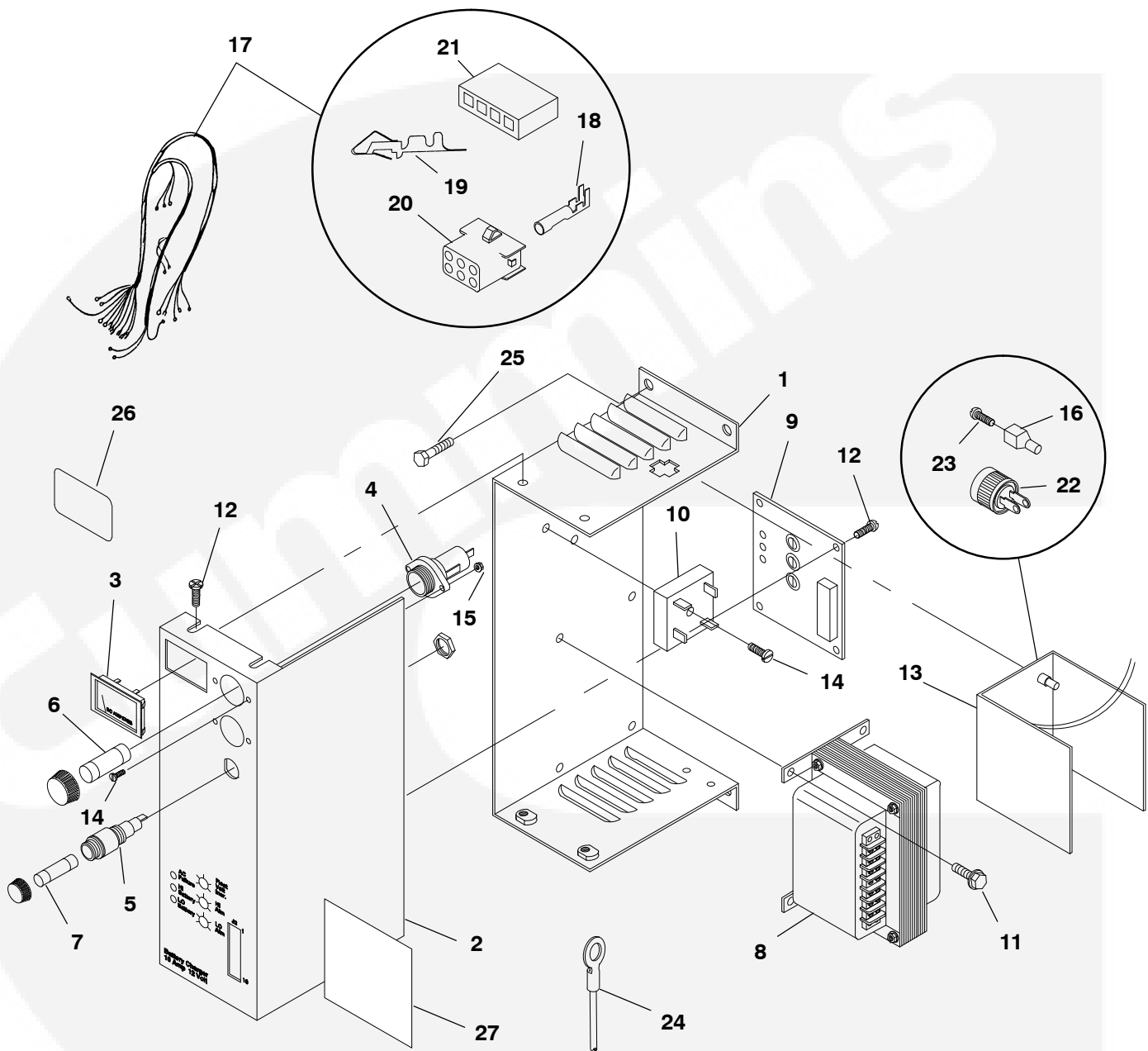
Battery Charger 10 Amp, 12 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery				(#10-32 x 5/16)
2	319-0073	1	Cover, Charger – Battery	12	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET
3	302-1844	1	Ammeter, DC				(#6-32 x 3/8)
4	321-0237	2	Holder, Fuse (AC Input)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
5	321-0175	1	Holder, Fuse (DC Output)				
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)
	321-0303-02	2	600 Volt	25	815-0652	4	Screw, Hex Head – Thread Forming (10-32 x .50)
7	321-0127	1	Fuse (15 Amp)	26	099-2485	1	Label, Name Plate
8			Transformer	27	098-5808	1	Label, Charger
			50 Hertz				
	315-0702	1	380 Volt				
	315-0704	1	220/416/440 Volt				
	315-0712	1	240 Volt				
			60 Hertz				
	315-0700	1	208/240 Volt				
	315-0706	1	380 Volt				
	315-0708	1	480 Volt				
	315-0710	1	600 Volt				
9	300-3160	1	PCB, Charger – Battery				
10	305-0653	1	Rectifier, Bridge				
11	821-0040	4	Screw, Machine – Locking Head				

– 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

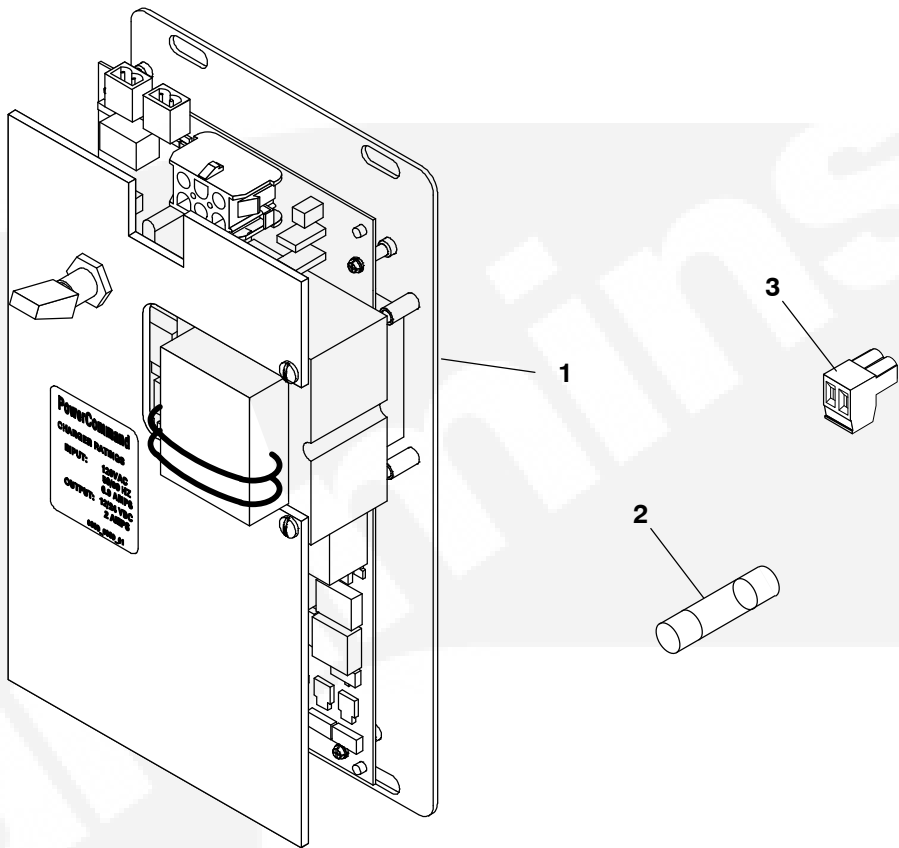
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0072	1	Wrapper, Charger – Battery				(#10-32 x 5/16)
2	319-0073	1	Cover, Charger – Battery (Includes Silkscreen)	12	815-0902	8	Screw, Pan Head – Cross Recessed – W/ET
3	302-1844	1	Ammeter, DC				(#6-32 x 3/8)
4	321-0237	2	Holder, Fuse (AC Input)	13	305-0781	1	Rectifier Assembly – SCR (12 Volt) (Includes Parts Marked *)
5	321-0175	1	Holder, Fuse (DC Output)				
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				
			60 Hertz	18	323-1200	A/R	#Socket, Terminal
	321-0303-02	2	600 Volt	19	323-1302	A/R	#Pin, Terminal
	321-0304-03	2	480 Volt	20	323-1318	1	#Cap, 6 pin
	321-0304-04	2	380 Volt	21	323-1374-05	1	#Plug, 5 pin
	321-0304-05	2	240 Volt	22	364-0003	1	*Rectifier, Gate (SCR)
	321-0304-06	2	208 Volt	23	809-0035	4	*Screw, Sheet Metal – Round Head (#8 x 3/4)
7	321-0127	1	Fuse (15 Amp)	24	226-3554-02	1	Lead (Quantity Used as Required)
8			Transformer	25	815-0652	4	Screw, Hex Head – Thread Forming (10-32 x .50)
			50 Hertz	26	099-2485	1	Label, Name Plate
	315-0705	1	220/416/440 Volt	27	098-5997	1	Label, Charger
	315-0703	1	380 Volt				
	315-0713	1	240 Volt				
			60 Hertz				
	315-0701	1	208/240 Volt				
	315-0707	1	380 Volt				
	315-0709	1	480 Volt				
	315-0711	1	600 Volt				
9	300-3244	1	PCB, Charger – Battery				
10	305-0653	1	Rectifier, Bridge				
11	821-0040	4	Screw, Machine – Locking Head				

– Parts Included in 338-2223 Wiring Harness

* – Parts Included in 305-0781 Rectifier Assembly

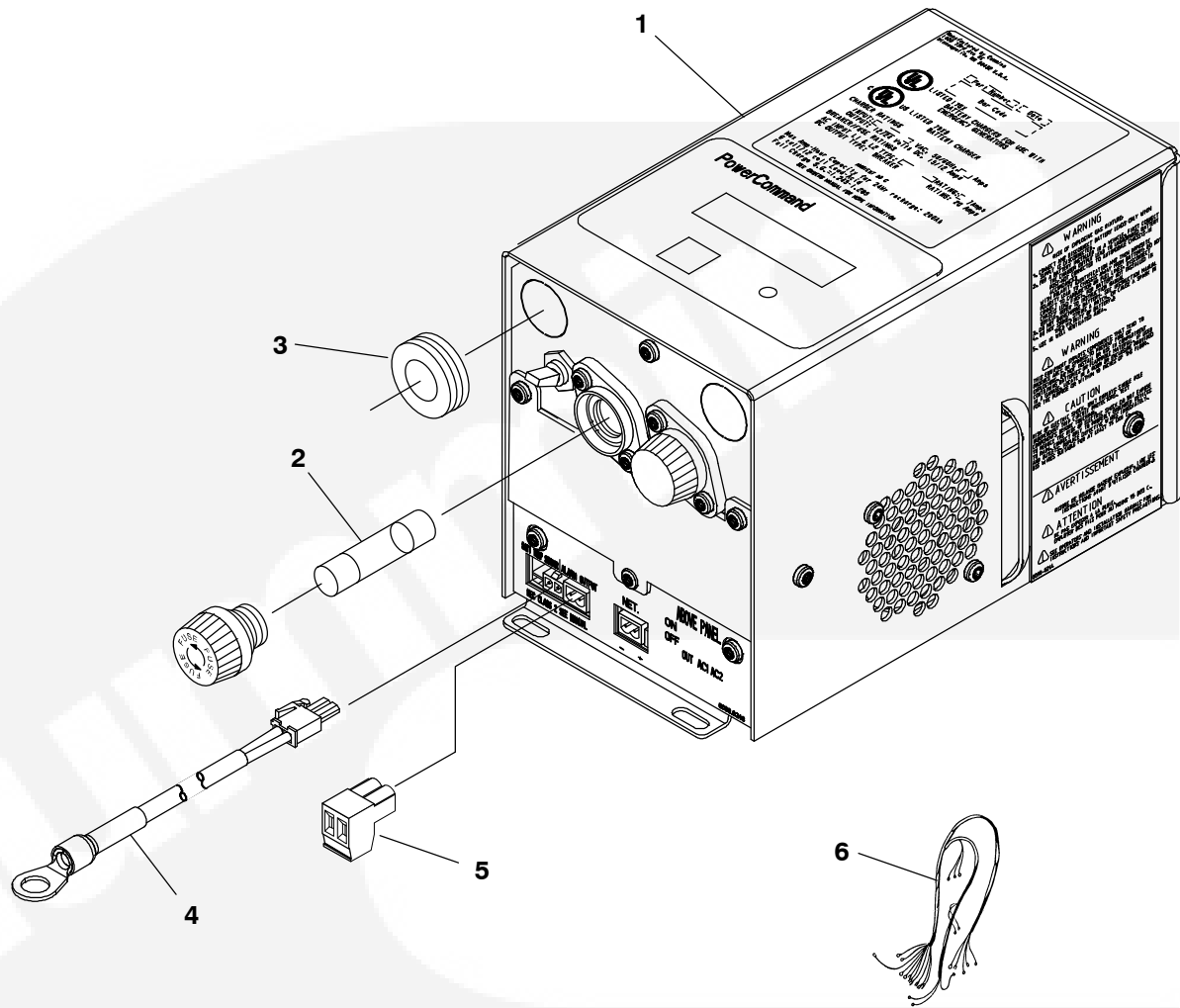


2 Amp Battery Charger



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			2 Amp Battery Charger (Includes 5 Amp Fuse [Item 2])	2	321-0298	2	Fuse, 5 Amp, 250V
	300-6000-01	1	120 VAC	3	323-1678-02	1	Connector, Fault Alarm Output
	300-6000-02	1	208 VAC				
	300-6000-03	1	240 VAC				
	300-6000-04	1	277 VAC				
	300-6000-05	1	380 VAC				
	300-6000-06	1	416 VAC				
	300-6000-07	1	480 VAC				
	300-6000-08	1	600 VAC				

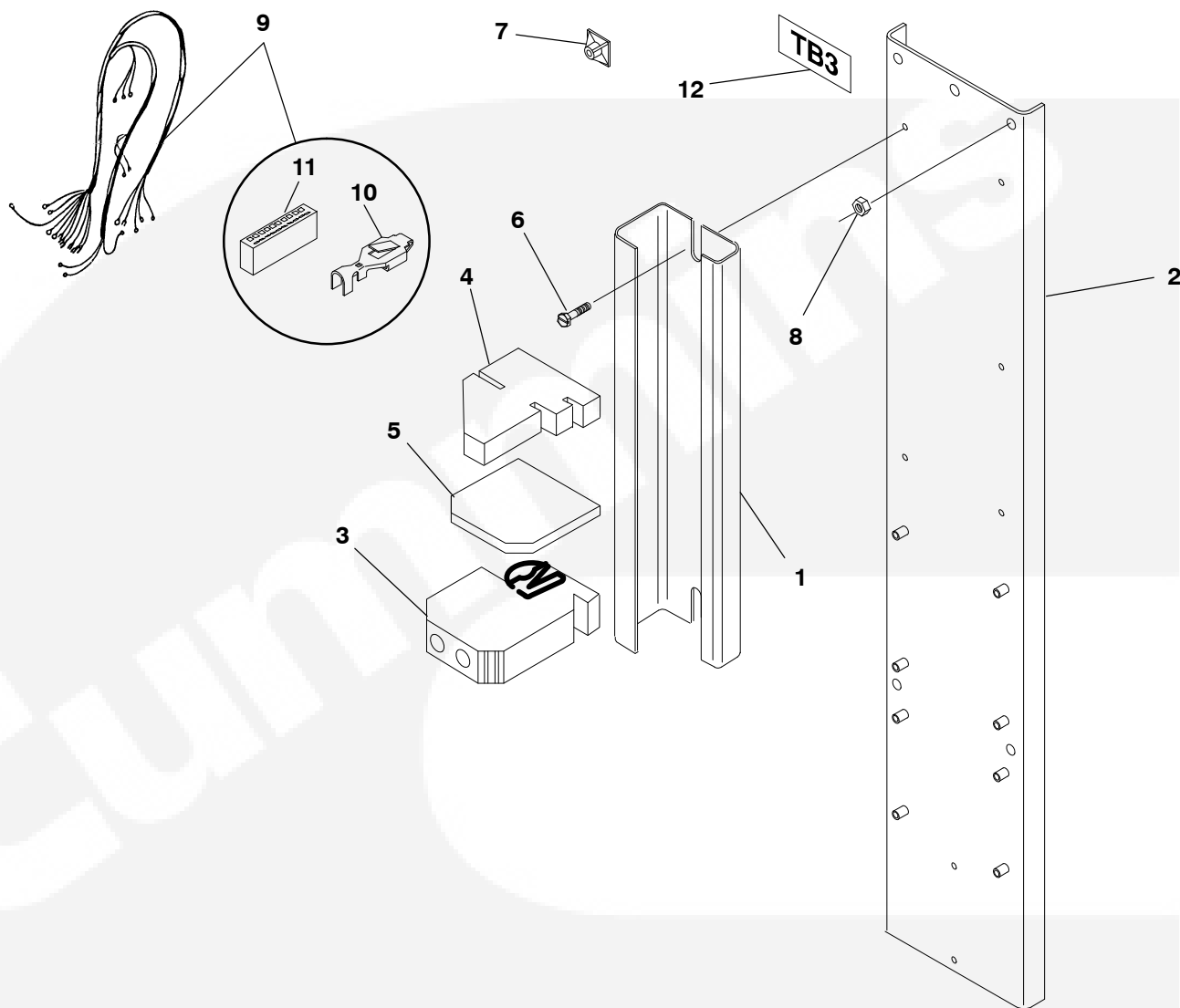
15 Amp Battery Charger



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Battery Charger
			Genset Kits
	300-5878-01	1	120, 208, 240 VAC
	300-5878-02	1	277 VAC
	300-5878-03	1	380 VAC
	300-5878-04	1	416 VAC
	300-5878-05	1	480 VAC
	300-5878-06	1	600 VAC
			Transfer Switch Kits
	300-5878-13	1	120, 208, 240 VAC
	300-5878-14	1	277 VAC
	300-5878-15	1	380 VAC
	300-5878-16	1	416 VAC
	300-5878-17	1	480 VAC
	300-5878-18	1	600 VAC

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Fuse
	0321-0405-01	2	5 Amp - 277 VAC
	0321-0405-02	2	3.5 Amp - 380 and 416 VAC
	0321-0405-03	2	2.5 Amp - 480 and 600 VAC
3			Grommet
	508-0071	1	Transfer Switch Installations
	508-0071	2	Genset Installations
4	541-0918	1	Sensor Kit, Battery Temperature
5	323-1678-02	1	Connector, Fault Alarm Output
6	338-4510	1	Harness, Battery Charger

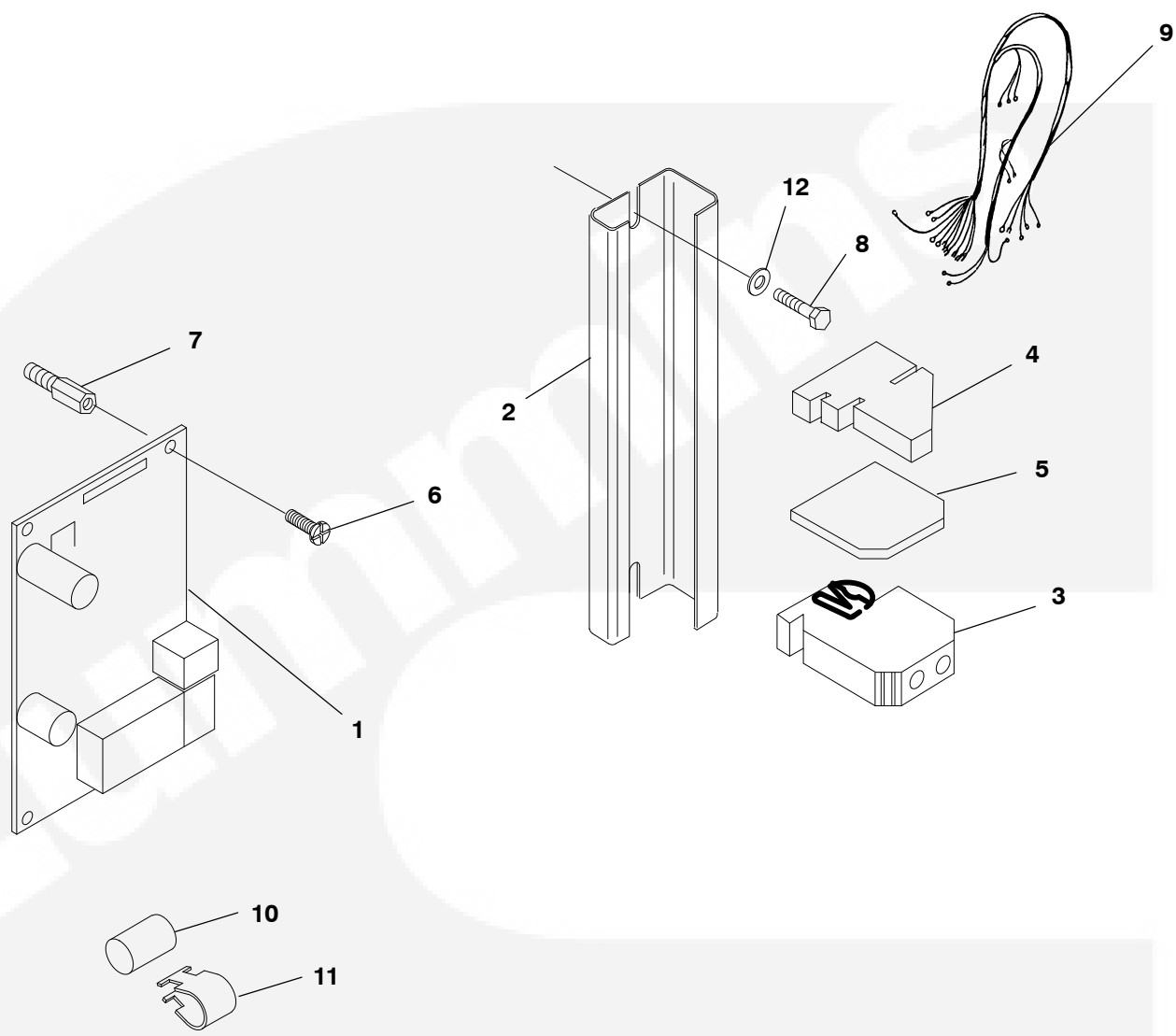
Battery Charger Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block	9	338-2350	1	Harness, Alarm (Includes Parts Marked *)
2	319-3943-01	1	Plate, Mounting	10	323-1302	9	* Pin, Contact (J2)
3	332-2836-02	1	Block, Terminal (Sectional)	11	323-1374-10	1	* Housing, Connector (10 Pin) (J2)
4	332-2839	2	Bracket, End - Terminal	12	098-5710	1	Label, Terminal Block
5	332-2841	1	Plate, End - Terminal				
6	815-0792-02	2	Screw, Pan Head - Cross Recessed (M4 x 8)				
7	332-2420	2	Mount, Cable Tie				
8	870-0212	4	Nut, Self-Locking (1/4-20)				

* - Parts Included in 338-2350 Wiring Harness

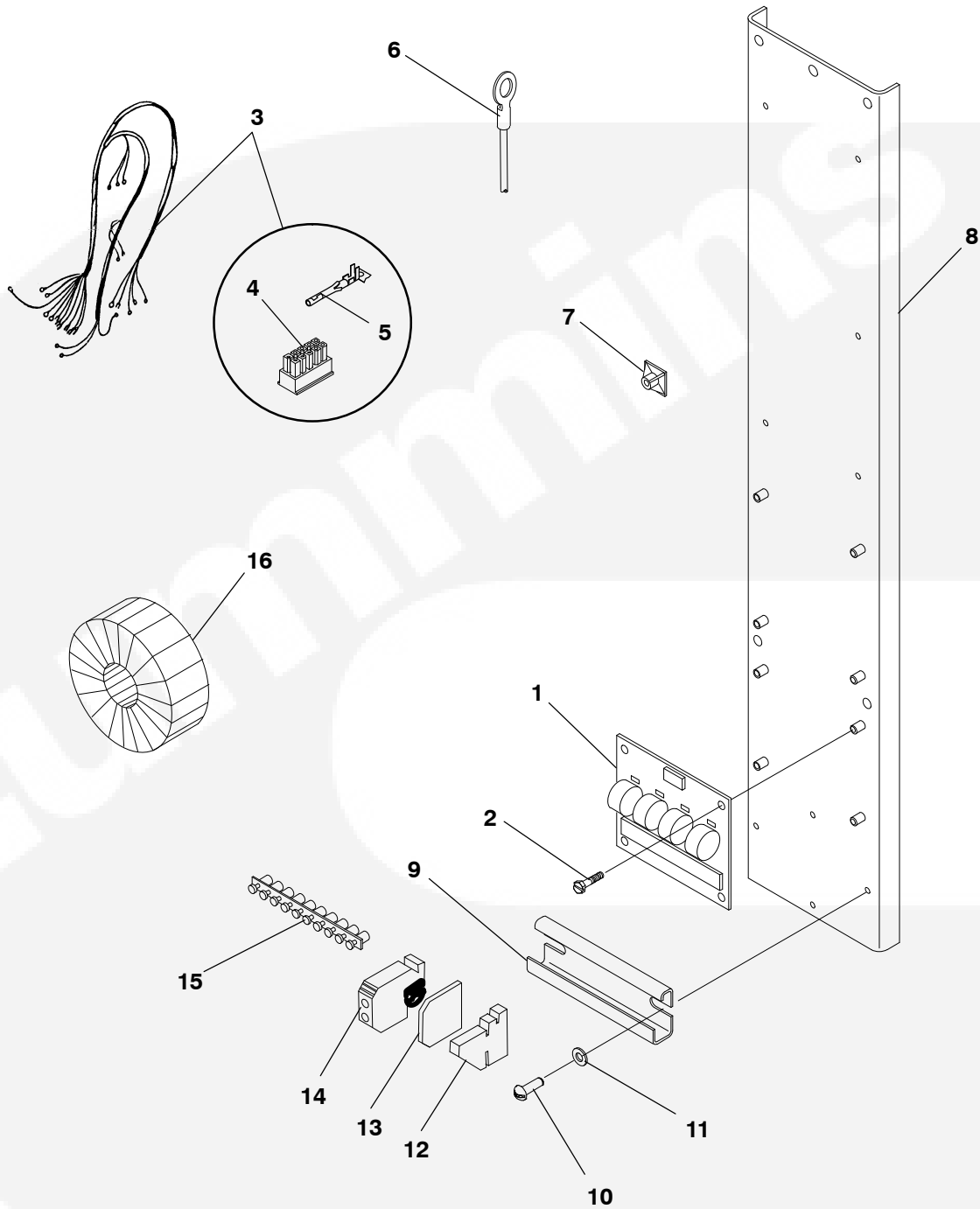
Network Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5153	1	Board, Printed Circuit – Network Module
2	332-2837-09	1	Rail, Terminal Block
3	332-2836-01	2	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End – Terminal
5	332-2841	1	Plate, End – Terminal
6	815-0959-03	4	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	870-2213-02	4	Standoff, Hex Thread (M3)
8	815-0955-03	2	Screw, Cap – Hex Head – GND (M4 x 10)
9	338-3886	1	Harness, Network
10		2	Battery – Lithium (3.0V) (Purchase Locally)
11	416-1049	2	Clip, Battery
12	526-0003	2	Washer, Flat

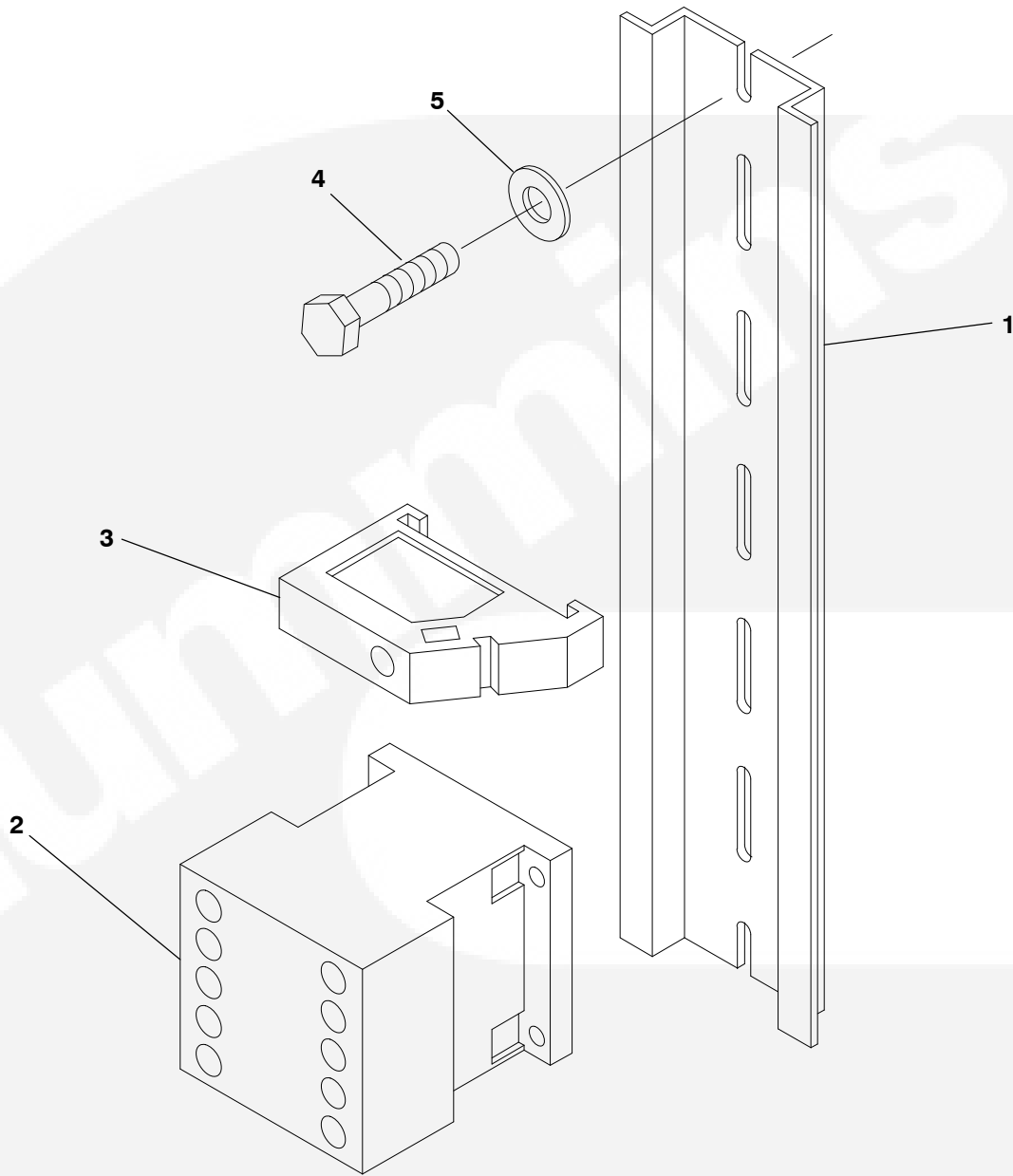
Current Transformer Module



Current Transformer Module

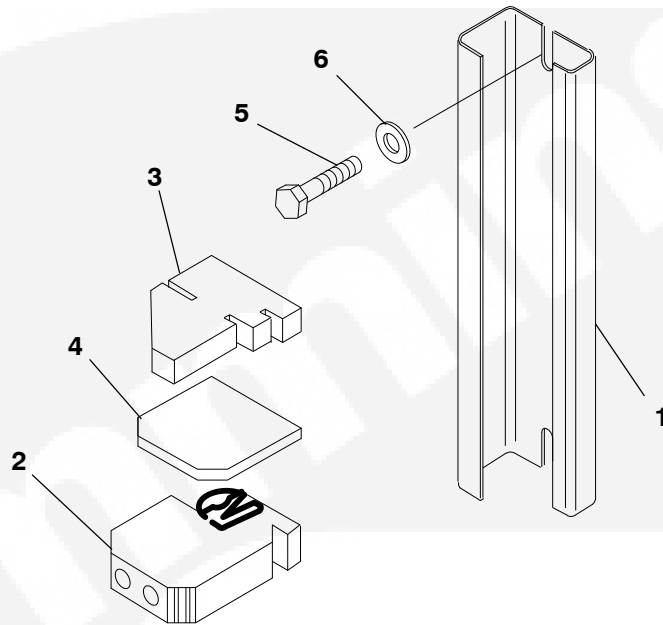
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5254	1	Board, Printed Circuit – Current Module	13	332-2841	1	Plate, End – Terminal
2	815-0959-02	4	Screw, Pan Head (M3 x 7)	14	332-2836-02	1	Block, Terminal – Sectional
3	338-3884-01	1	Harness, Current Module (Includes Parts Marked *)	15	332-2843-04	1	Jumper, Terminal (10 Pole)
4	323-1806-05	2	* Connector, Receptacle (10 Pin)	16			Transformer, Current
5	332-3606	20	* Socket, Contact		302-1394	3	300 Amp 1 Phase, 3 Wire
6	226-4794-03	1	Lead		302-1394	4	3 Phase, 3 or 4 Wire
7	332-2420	A/R	Mount, Cable Tie		302-1809	3	400 Amp 1 Phase, 3 Wire
8	319-3943-01	1	Plate, Mounting		302-1809	4	3 Phase, 3 or 4 Wire
9	332-2837-11	1	Rail, Terminal				600 Amp 1 Phase, 3 Wire
10	815-0955-03	2	Screw, Cap – Hex Head (M4 x 10)		302-1395	3	3 Phase, 3 or 4 Wire
11	526-0003	2	Washer, Flat		302-1395	4	
12	332-2839	2	Bracket, End – Terminal	* – Parts Included in 338-3884-01 Wiring Harness			

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	3	332-2878	2	Bracket, End
2	307-2873	1	Relay, Control	4	815-0955-03	2	Screw, Cap - Hex Head - GND
	307-2874	1	12 VDC				(M4 x 10)
			24 VDC	5	526-0003	2	Washer, Flat (#8)

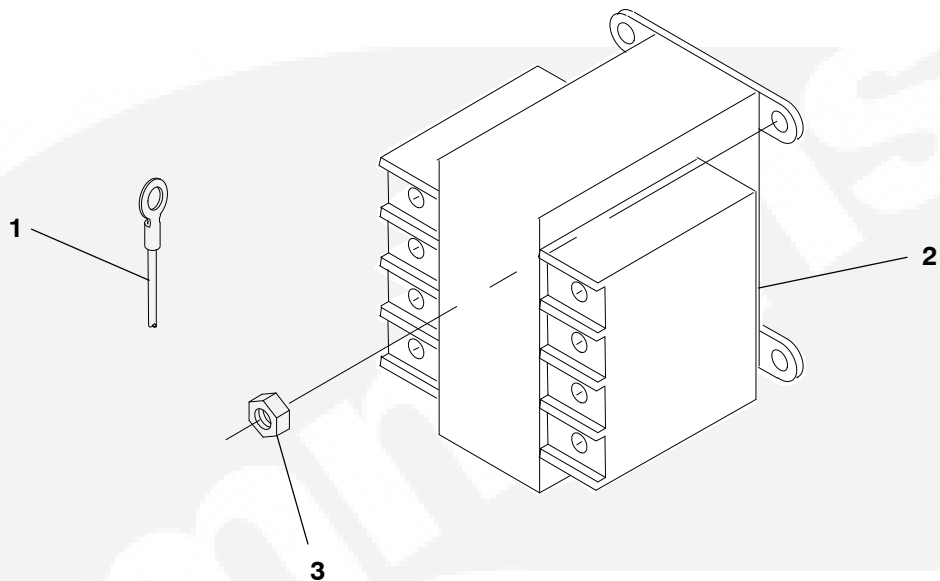
Terminal Block



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	815-0955-03	2	Screw, Cap – Hex Head – GND (M4 x 10)
2	332-2836-02	3	Block, Terminal (Sectional)	6	526-0003	2	Washer, Flat
3	332-2839	2	Bracket, End – Terminal				
4	332-2841	1	Plate, End – Terminal				

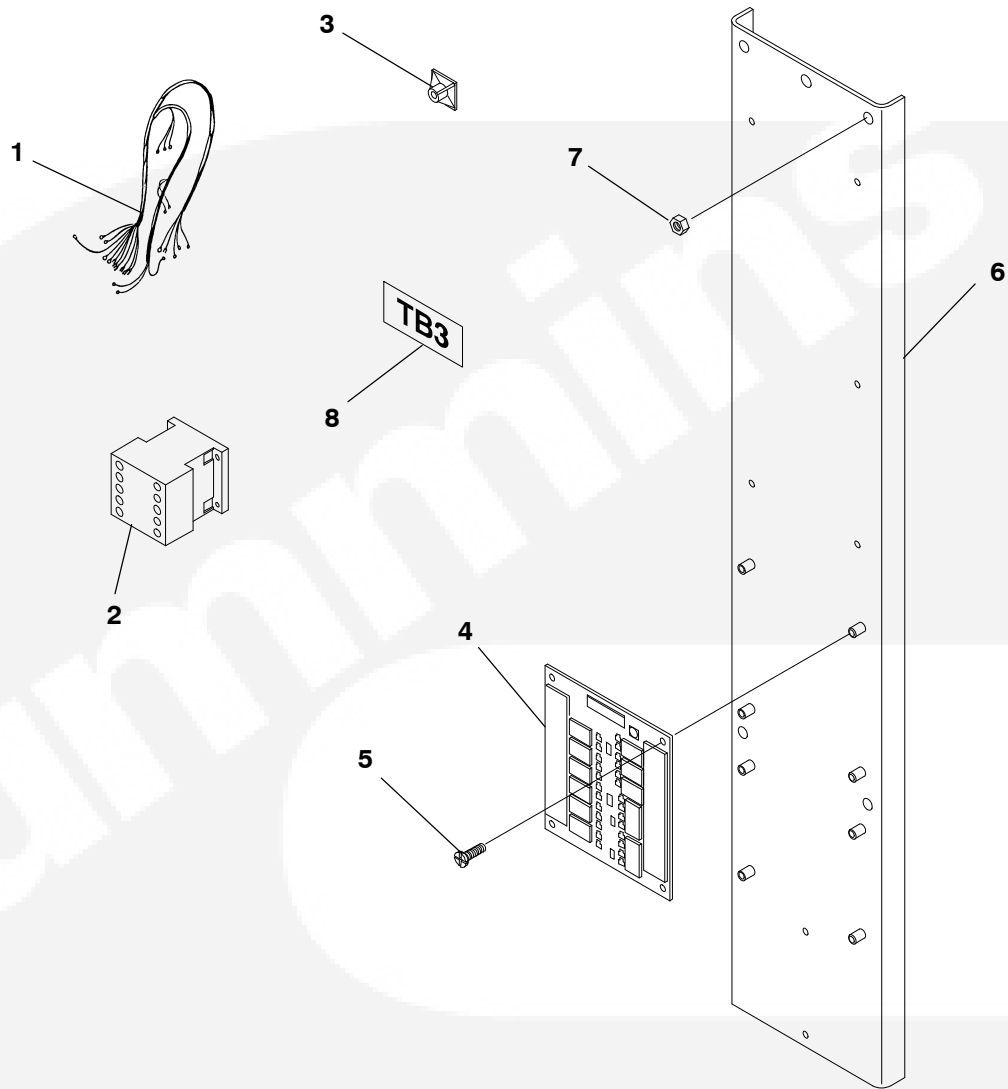


600 Volt Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Lead	2	315-0661	1	Transformer, Power
	226-4809-01	1	6.5" Long - Marked K2-5, K1-5	3	870-0212	4	Nut, Self-Locking (1/4-20)
	226-4809-02	1	6.5" Long - Marked K2-3, K1-3				
	226-4809-03	1	32.00" Long - Marked K6-3, J10-4				
	226-4809-04	1	32.00" Long - Marked K6-5, J10-9				
	226-4809-05	1	54.00" Long - Marked T4-X1, P10-4				
	226-4809-06	1	52.00" Long - Marked T4-H2, P10-9				
	226-4809-07	1	48.00" Long - Marked T4-H1, P10-7				

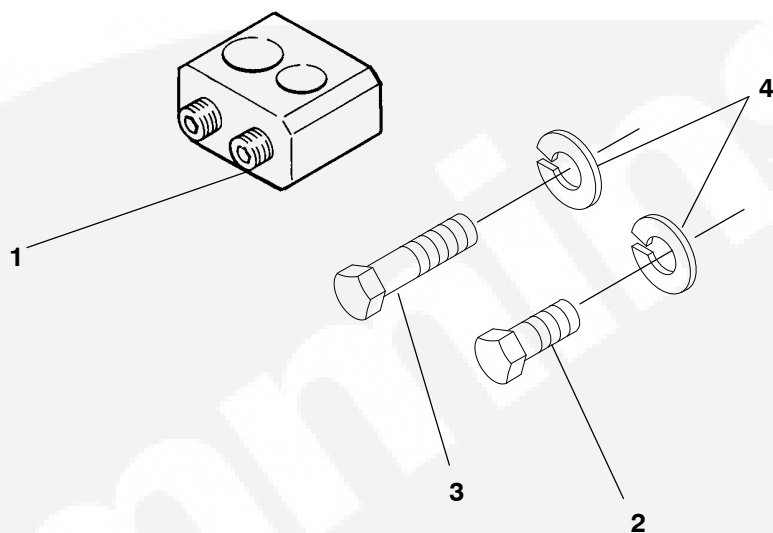
Load Shed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3903	1	Harness, Load Shed
2	307-2875	1	Relay, Control
3	332-2420	2	Mount, Cable Tie
4	300-5152	1	Board, Printed Circuit - Relay Module

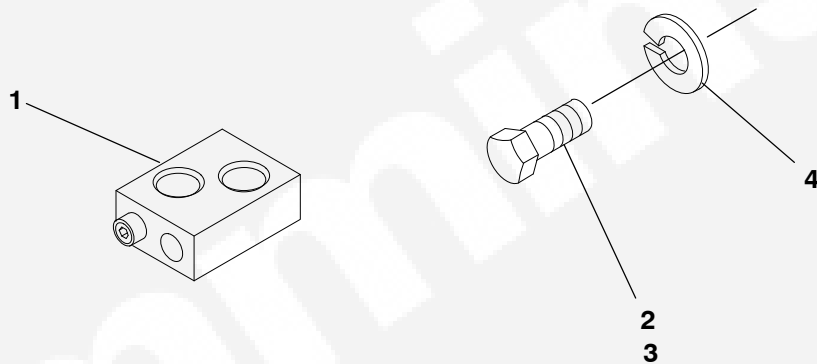
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	815-0959-03	4	Screw, Pan Head - Cross Recessed (M3 x 8)
6	319-3943-01	1	Plate, Mounting
7	870-0212	4	Nut, Self-Locking (1/4-20)
8	098-5710	1	Label, Terminal Block

Lugs 300 and 400 Amp



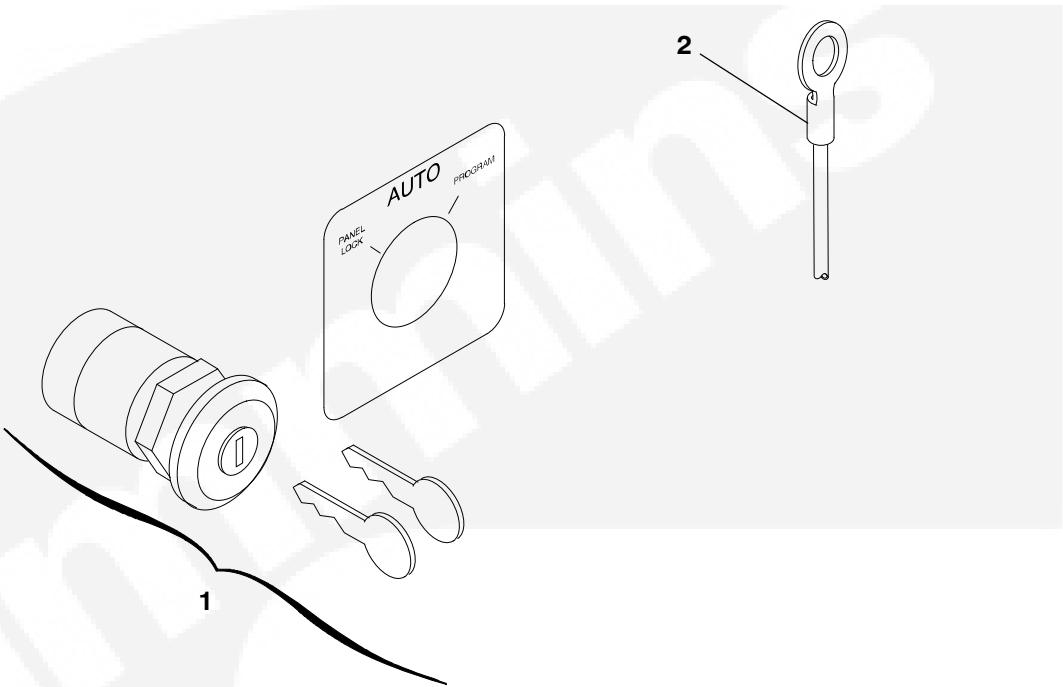
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2704	12	Lug, Solderless	3	822-0089	12	Screw, Machine – Pan Head (1/4-20 x 1-1/4)
2	822-0085	12	Screw, Machine – Pan Head (1/4-20 x 5/8)	4	850-0039	24	Washer, Lock (1/4)

**Lugs
600 Amp**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2660	12	Lug, Solderless	3	822-0091	12	Screw, Machine – Pan Head – Cross Recessed (1/4-20 x 1-1/2)
2	822-0085	12	Screw, Machine – Pan Head – Cross Recessed (1/4-20 x 5/8)	4	850-0039	24	Washer, Lock (1/4)

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 (Supplied With Legend Plate and 2 Keys)	2	226-4794-01	1	Lead 14" (Marked S20-3 - J27-5)
	308-0989	2	Spare Key		226-4794-02	1	16" (Marked S20-4 - J27-11)

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