



Parts Manual

Our energy working for you.™



**Power
Generation**

Transfer Switch

150/225/260 Amps

BTPC (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 BTPC 150/225/260 Amp Transfer Switch. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the model and spec number from the switch box nameplate, select the parts that apply to your Transfer Switch. Unless otherwise noted in the parts description, parts are interchangeable between models.

Feature Options

Code	Description	Code	Description
A028	3-Pole Switch	L103	Auxiliary Relay – Normal Position – 24 VDC
A029	4-Pole Switch	L201	Auxiliary Relay – 12 VDC Coil
A035	Utility to Generator Set Applications	L202	Auxiliary Relay – Emergency Position – 12 VDC
A036	Utility to Utility Applications	L203	Auxiliary Relay – Normal Position – 12 VDC
A041	One Phase – 2 or 3 wire	M003	Terminal Block – 30 Points
A042	Three Phase – 3 or 4 wire	M007	Load Shed
A044	Frequency – 60 Hz	M017	Security – Front Panel
A045	Frequency – 50 Hz	M018	Display – Digital
A046	Listing – UL	M020	Communications – Lonworks
A064	Listing – UL/NFPA-20	M022	Monitoring – Load
A077	Transfer Mode – In-Phase Transition	M023	Module – Relay Signal
A078	Transfer Mode – Delayed Transition	N002	Terminal Block – Battery Charger Alarm
A079	Transfer Mode – Closed	N009	Bus Stubs Connection
B001	Cabinet – Type 1	R021	Voltage – 208
B002	Cabinet – Type 3R	R022	Voltage – 220
B003	Cabinet – Type 4	R023	Voltage – 240
B004	Construction – Open	R024	Voltage – 380
B010	Cabinet – Type 12	R025	Voltage – 416
B025	Cabinet – Type 4X	R026	Voltage – 480
C024	Control – Level 2	R027	Voltage – 600
D009	Meters – Bar Graph Display	R035	Voltage – 440
K001	Battery Charger – 2 Amp, 12/24V	R038	Voltage – 190
KB59	Battery Charger – 10 Amp, 12V	S049	Current Rating – 150 Amps
KB60	Battery Charger – 10 Amp, 24V	S050	Current Rating – 225 Amps
L101	Auxiliary Relay – 24 VDC	S051	Current Rating – 260 Amps
L102	Auxiliary Relay – Emergency Position – 24 VDC		

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Cummins

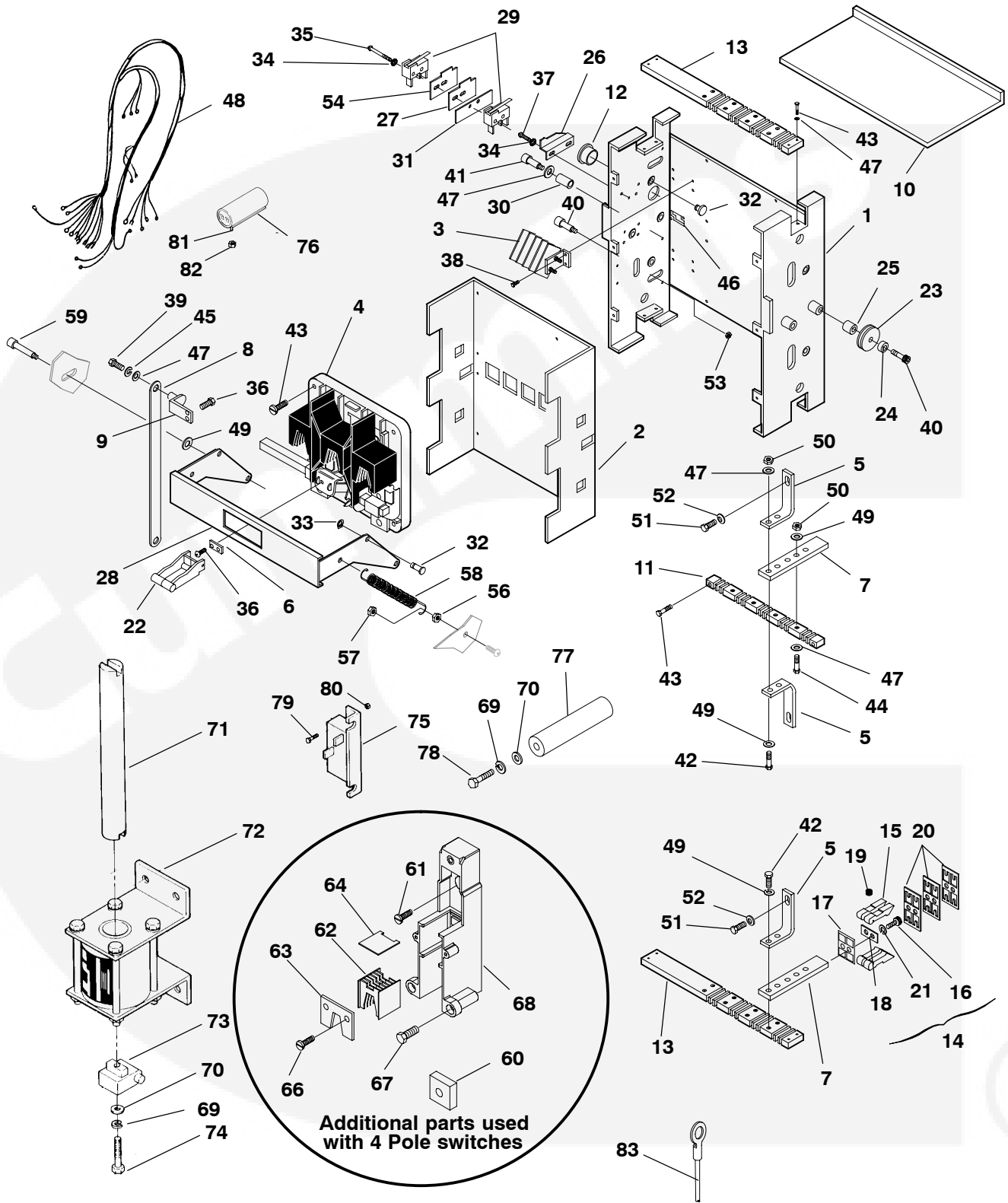


Abbreviations

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

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

Transfer Switch



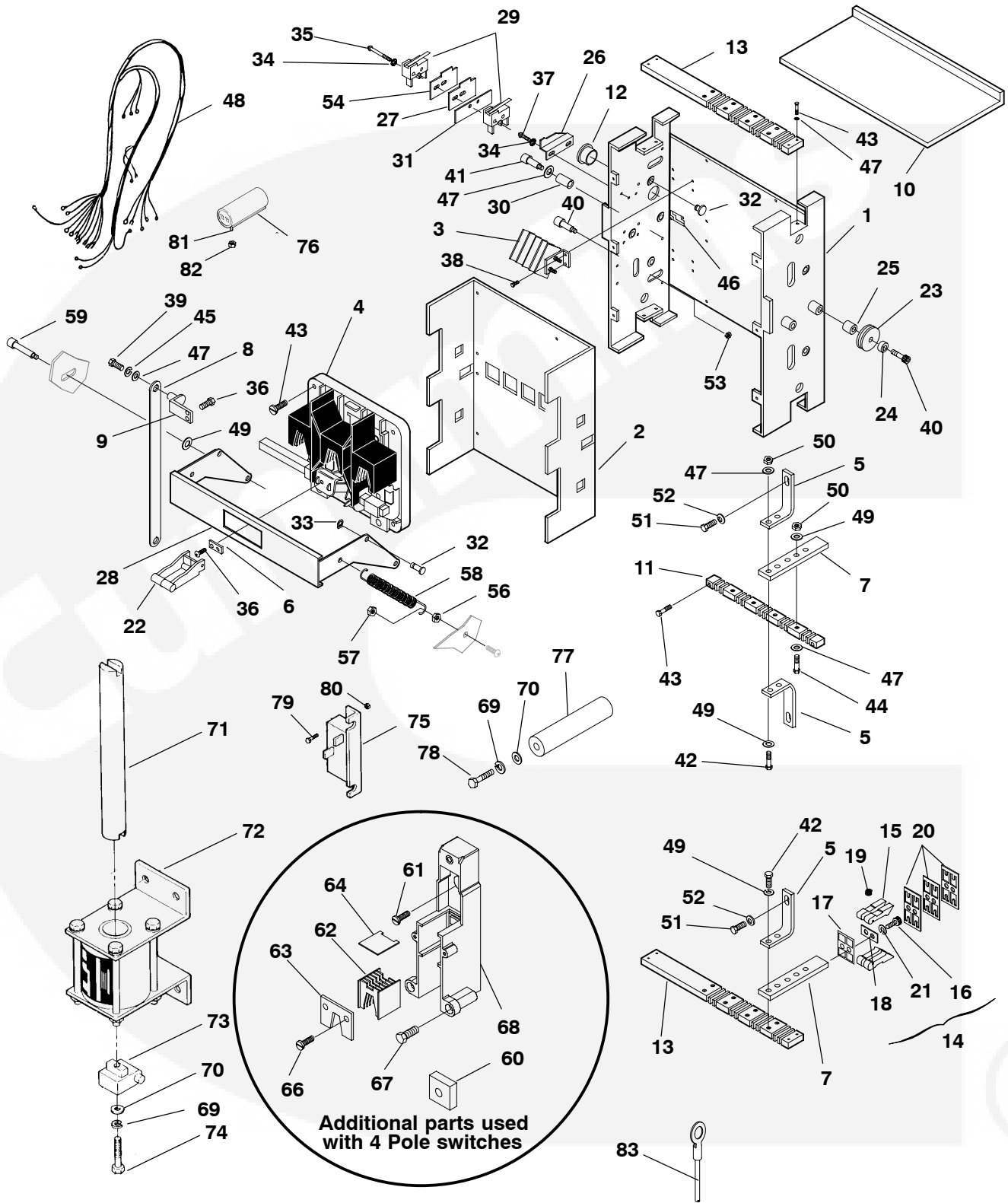
Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3701	1	Base, Transfer	21			*Washer, Lock (1/4)
2	306-3649	1	Barrier, Base		850-0040	18	3 Pole
3	306-4749	2	Switch Assembly – Auxiliary (See separate page for components)		850-0040	24	4 Pole
4			Block and Crossbar Assembly	22	306-3723	2	Handle Assembly
			3 Pole	23	306-3659	4	Wheel, Bypass
	306-5231-01	1	Normal	24	306-3656	4	Sleeving, Wheel
	306-5231-02	1	Emergency	25	306-3670	4	Sleeving, Wheel
			4 Pole	26	306-4064-01	1	Bracket, Indicator
	306-5232-01	1	Normal	27	306-3996-01	1	Plate, Indicating
	306-5232-02	1	Emergency	28	306-3689	2	Bracket, Actuator
5			Bus, Normal/Emergency	29	309-0616	2	Switch, Snap Action
	337-2498	12	3 Pole	30	306-3718	3	Spacer
	337-2498	16	4 Pole	31	306-1987	3	Barrier, Switch
6	306-1396	2	Plate, Mounting – Handle	32	516-0233	4	Pin, Clevis
7			Stab, Transfer Switch	33	518-0115	4	Ring, External
	337-2456	9	3 Pole	34	853-0003	4	Washer, Lock – ET (#6)
	337-2456	12	4 Pole	35	812-0072	2	Screw, Round Head (#6-32 x 1-3/4)
8	306-3482	1	Bar, Interlock	36	815-0446	8	Screw, Round Head – Cross Recessed W/IT (#8-32 x 1/2)
9	306-3729	2	Arm, Interlock	37	812-0059	2	Screw, Round Head (#6-32 x 1/4)
10	306-3705	2	Cover, End	38	815-0652	8	Screw, Hex Head – Slotted (#10-32 x 1/2)
11	306-3634	1	Bar, Support – Load	39	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)
12	508-0253	1	Bushing	40	815-0790-01	6	Screw, Socket Head – Shoulder (1/4-20 x 3/4)
13	306-3719	2	Bar, Support	41	815-0790-02	3	Screw, Socket Head – Shoulder (1/4-20 x 1)
14			Finger Assembly (Includes parts marked *)	42			Screw, Cap – Hex Head (1/4-20 x 1-1/4)
	306-3974	9	3 Pole		800-0008	18	3 Pole
	306-3974	12	4 Pole		800-0008	24	4 Pole
15			*Finger, Contact	43			Screw, Cap – Hex Head (1/4-20 x 1-1/4)
	306-3966-01	36	3 Pole		815-0667	18	3 Pole
	306-3966-01	48	4 Pole		815-0667	16	4 Pole
16			*Screw, Socket Head (1/4-20 x 5/8)				
	802-0045	18	3 Pole				
	802-0045	24	4 Pole				
17			*Retainer, Finger				
	306-3968	9	3 Pole				
	306-3968	12	4 Pole				
18			*Retainer, Finger				
	306-3967-01	9	3 Pole				
	306-3967-01	12	4 Pole				
19			*Spring, Contact				
	306-3692	36	3 Pole				
	306-3692	48	4 Pole				
20			*Retainer, Spring				
	306-3971	27	3 Pole				
	306-3971	36	4 Pole				

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* – Parts included in 306-3974 Finger Assembly

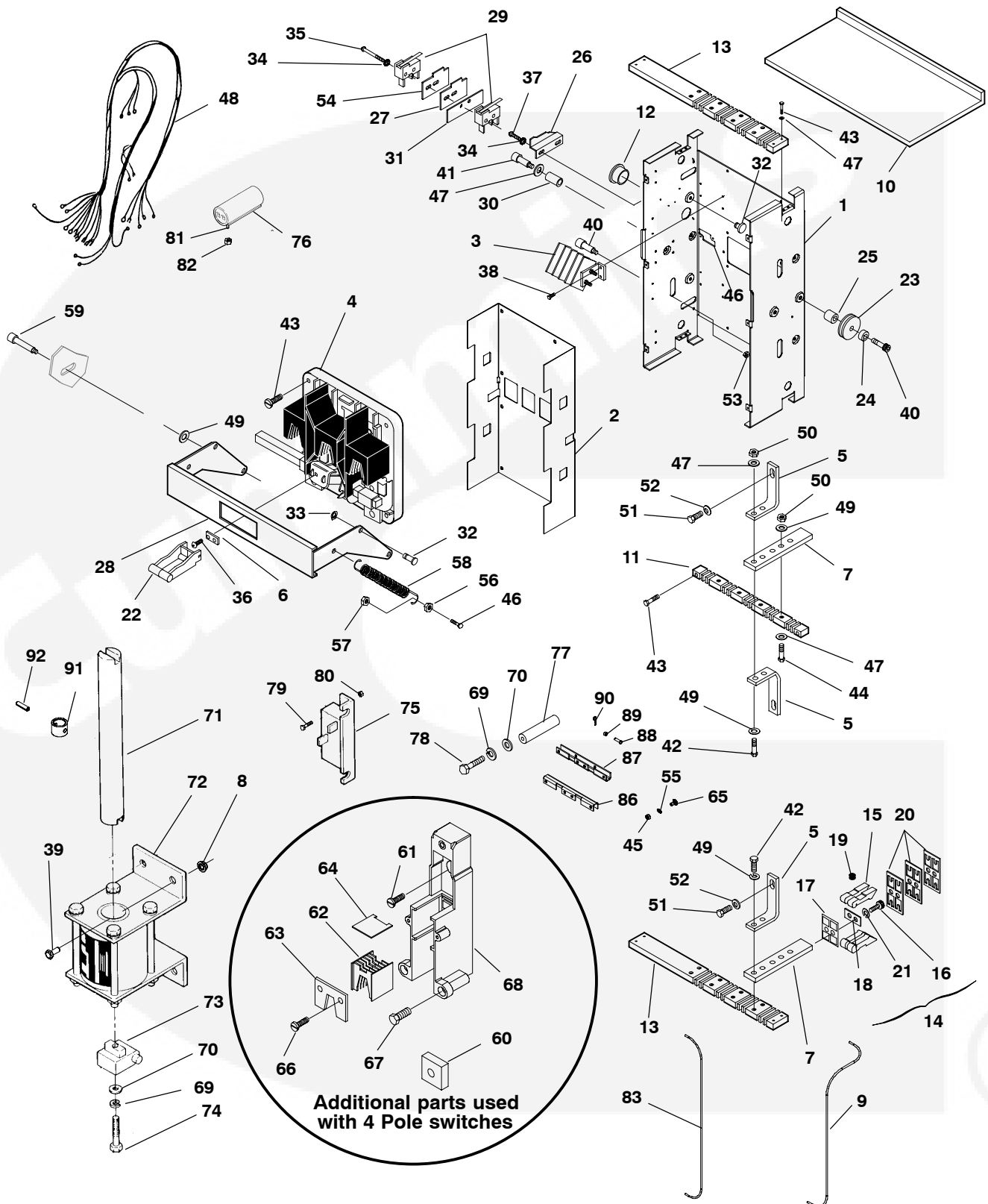
Transfer Switch



Transfer Switch

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				63	306-3576	2	Cover, Arc Chute – 4 Pole
44			Screw, Cap – Hex Head (1/4-20 x 1-3/4)	64	306-2352	2	Insulator, Arc Chute – 4 Pole
	800-0010	3	3 Pole	65	815-0652	6	Screw, Hex Head – Slotted (#10-32 x 1/2) (Not Illustrated)
	800-0010	4	4 Pole	66	815-0527	4	Screw, Pan Head – Thread Cutting (#10 x 1/2)
45	850-0040	2	Washer, Lock (1/4)	67	815-0261	2	Screw, Thread Forming (1/4-20 x 1/2) – 4 Pole
46	815-0447	3	Screw, Round Head – Cross Recessed W/IT (#8-32 x 3/4)	68	306-5233	2	Block Assy – 4 Pole
47			Washer, Flat (1/4)	69	850-0040	6	Washer, Lock (1/4)
	526-0018	25	3 Pole	70	526-0018	6	Washer, Flat (1/4)
	526-0018	28	4 Pole	71	306-3473	1	Rod, Actuator
48	338-2647	1	Harness, Transfer Switch	72			Actuator, Linear
49			Washer, Spring – Conical (1/4)		306-3471-02	1	190 VAC
	851-0027	23	3 Pole		306-3471-03	1	208/220/240 VAC
	851-0027	30	4 Pole		306-3471-05	1	380/416 VAC
50			Nut, Hex (1/4-20)		306-3471-06	1	440/480 VAC
	862-0001	9	3 Pole	73	306-3400-02	2	Rod-End, Actuator
	862-0001	12	4 Pole	74	800-0007	2	Screw, Cap – Hex Head (1/4-20 x 1)
51			Screw, Cap – Hex Head (5/16-18 x 7/8)	75			Breaker, Circuit
	800-0027	12	3 Pole		320-0606	1	380/416/440/480 VAC
	800-0027	16	4 Pole		320-0608	1	190/208/220/240/600 VAC
52			Washer, Spring Conical (5/16)	76			Capacitor
	851-0028	12	3 Pole		312-0204-S0	1	190/208/220/240/600 VAC
	851-0028	16	4 Pole		312-0203-S0	2	380/416/440/480 VAC
53	870-0065	2	Nut, Lock (1/4-20)	77	306-3483	4	Spacer, Actuator
54	306-3995-01	1	Plate, Indicating	78	800-0021	4	Screw, Cap – Hex Head (1/4-20 x 4.50)
55	306-3715	1	Cover, Transfer Switch (Not Illustrated)	79	812-0062	2	Screw, Round Head (#6-32 x 7/16)
56	870-0221	1	Nut, Hex W/ET (#8-32)	80	870-0183	2	Nut, Hex – W/ET (#6-32)
57	870-0235	1	Nut, Self-Locking (#8-32)	81	815-0029	4	Screw, Flat Head – Cross Recessed (#10-32 x .50)
58	406-0777	1	Spring, Extension	82	870-0131	4	Nut, Hex – W/ET (#10-32)
59	815-0790-03	2	Screw, Shoulder (1/4-20 x 1-1/2)	83	226-3380	1	Lead
60	337-2465	2	Bus, Spacer – 4 Pole				
61	815-0656	4	Screw, Machine – Round Head – Cross Recessed W/IT (1/4-20 x 2-3/4) – 4 Pole				
62	306-4854	2	Chute, Arc – 4 Pole				

Transfer Switch With Closed Transition



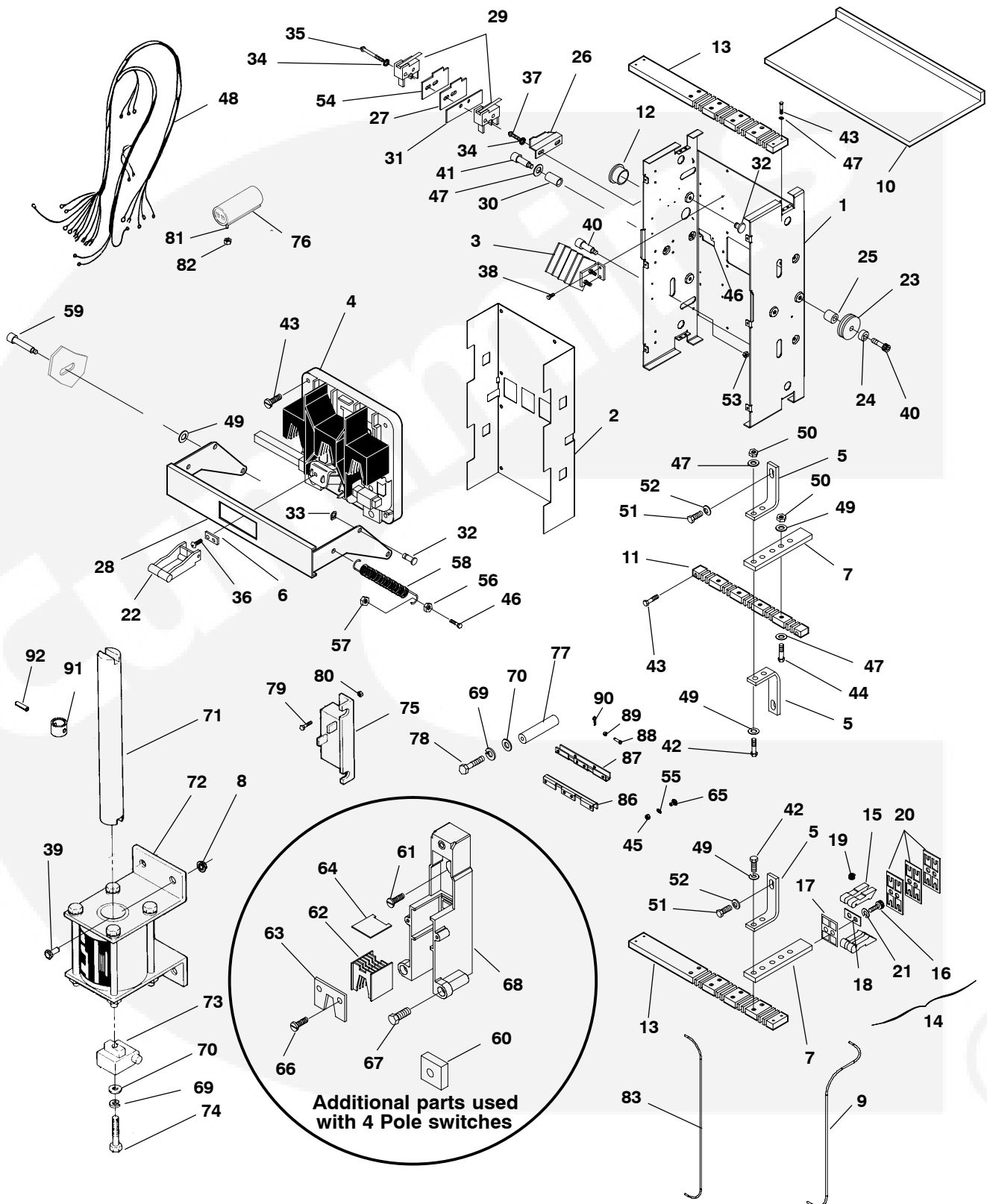
Transfer Switch With Closed Transition

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3701	1	Base, Transfer	21			*Washer, Lock (1/4)
2	306-3649	1	Barrier, Base		850-0040	18	3 Pole
3	306-4749	2	Contact – Auxiliary (See separate page for components)		850-0040	24	4 Pole
4			Block and Crossbar Assembly	22	306-3723	2	Handle Assembly
			3 Pole	23	306-3659	4	Wheel, Bypass
	306-5231-01	1	Normal	24	306-3656	4	Sleeving, Wheel
	306-5231-02	1	Emergency	25	306-3670	4	Sleeving, Wheel
			4 Pole	26	306-4064-01	1	Bracket, Indicator
	306-5232-01	1	Normal	27	306-3996-01	1	Plate, Indicating
	306-5232-02	1	Emergency	28	306-5409	2	Bracket, Actuator
5			Bus, Normal/Emergency	29	309-0616	2	Switch, Snap Action
	337-2498	12	3 Pole	30	306-3718	3	Spacer
	337-2498	16	4 Pole	31	306-1987	3	Barrier, Switch
6	306-1396	2	Plate, Mounting – Handle	32	516-0233	4	Pin, Clevis
7			Stab, Transfer Switch	33	518-0115	4	Ring, External
	337-2456	9	3 Pole	34	853-0003	4	Washer, Lock – ET (#6)
	337-2456	12	4 Pole	35	812-0072	2	Screw, Round Head (#6-32 x 1-3/4)
8	870-0212	8	Nut, Self Locking (1/4-20)	36	815-0446	4	Screw, Round Head – Cross Recessed W/IT (#8-32 x 1/2)
9	226-4997	1	Lead (380-480VAC)	37	812-0059	2	Screw, Round Head (#6-32 x 1/4)
10	306-3705	2	Cover, End	38	815-0652	8	Screw, Hex Head – Slotted (#10-32 x 1/2)
11	306-3634	1	Bar, Support – Load	39	800-0004	8	Screw, Cap – Hex Head (1/4-20 x .62)
12	508-0253	1	Bushing	40	815-0790-01	6	Screw, Socket Head – Shoulder (1/4-20 x 3/4)
13	306-3719	2	Bar, Support	41	815-0790-02	3	Screw, Socket Head – Shoulder (1/4-20 x 1)
14			Finger Assembly (Includes parts marked *)	42			Screw, Cap – Hex Head (1/4-20 x 1-1/4)
	306-3974	9	3 Pole		800-0008	18	3 Pole
	306-3974	12	4 Pole		800-0008	24	4 Pole
15			*Finger, Contact	43			Screw, Cap – Hex Head (1/4-20 x 1-1/4)
	306-3966-01	36	3 Pole		815-0667	18	3 Pole
	306-3966-01	48	4 Pole		815-0667	16	4 Pole
16			*Screw, Socket Head (1/4-20 x 5/8)				
	802-0045	18	3 Pole				
	802-0045	24	4 Pole				
17			*Retainer, Finger				
	306-3968	9	3 Pole				
	306-3968	12	4 Pole				
18			*Retainer, Finger				
	306-3967-01	9	3 Pole				
	306-3967-01	12	4 Pole				
19			*Spring, Contact				
	306-3692	36	3 Pole				
	306-3692	48	4 Pole				
20			*Retainer, Spring				
	306-3971	27	3 Pole				
	306-3971	36	4 Pole				

Continued...

* – Parts included in 306-3974 Finger Assembly

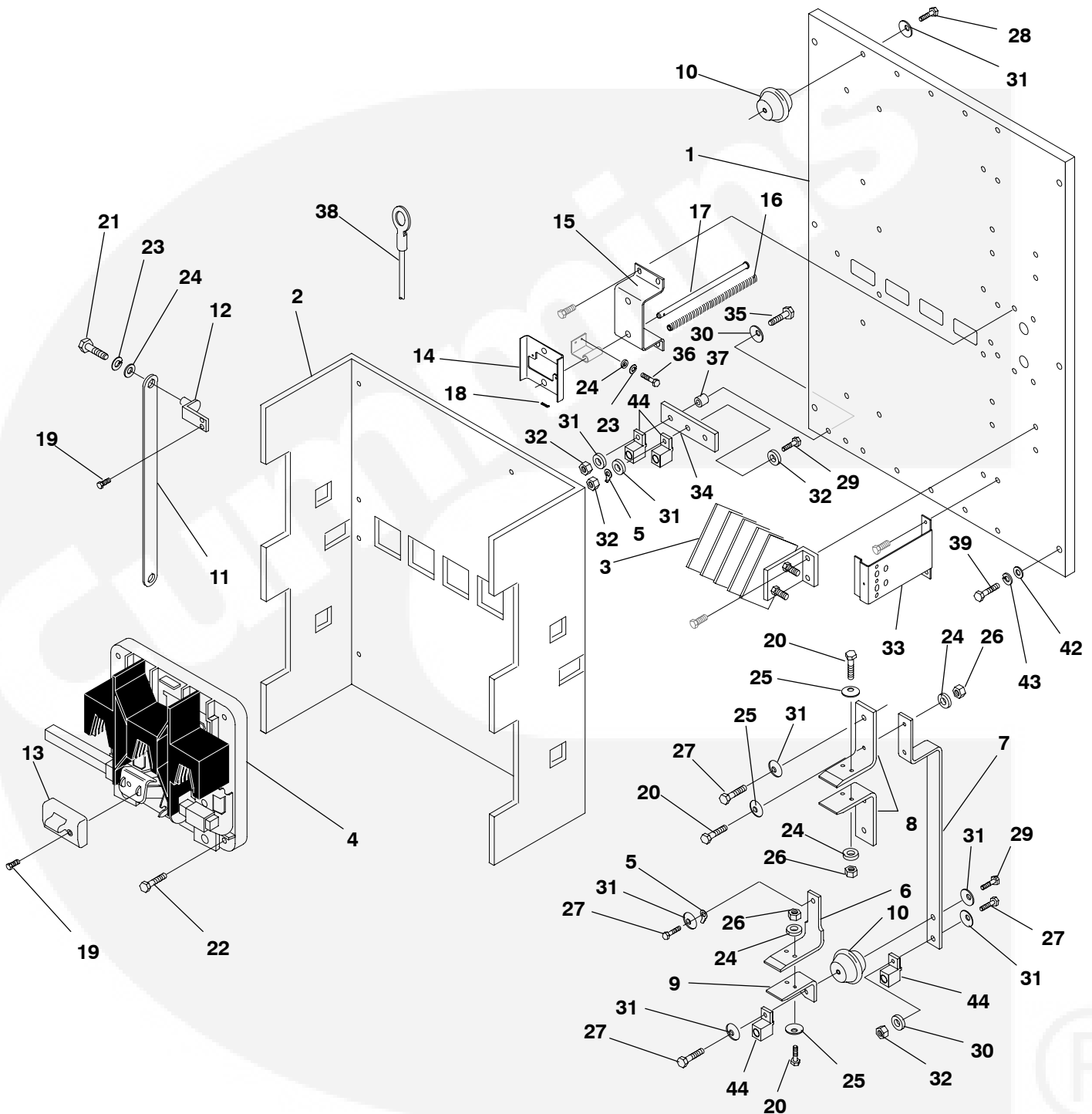
Transfer Switch With Closed Transition



Transfer Switch With Closed Transition

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				67	815-0261	2	Screw, Thread Forming (1/4-20 x 1/2) - 4 Pole
44			Screw, Cap - Hex Head (1/4-20 x 1-3/4)	68	306-5233	2	Block Assy - 4 Pole
	800-0010	3	3 Pole	69	850-0040	6	Washer, Lock (1/4)
	800-0010	4	4 Pole	70	526-0018	6	Washer, Flat (1/4)
45	862-0015	4	Nut, Hex - Heavy	71	306-5405	2	Rod, Actuator
46	815-0447	3	Screw, Round Head - Cross Recessed W/IT (#8-32 x 3/4)	72			Actuator, Linear
47			Washer, Flat (1/4)		306-3471-02	2	190 VAC
	526-0018	23	3 Pole		306-3471-03	2	208/220/240 VAC
	526-0018	26	4 Pole		306-3471-05	2	380/416 VAC
48	338-5246	1	Harness, Transfer Switch		306-3471-06	2	440/480 VAC
49			Washer, Spring - Conical (1/4)	73	306-3621	2	Rod-End, Actuator
	851-0027	23	3 Pole	74	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1)
	851-0027	30	4 Pole	75			Breaker, Circuit
50			Nut, Hex (1/4-20)		320-0606	2	380/416/440/480 VAC
	862-0001	9	3 Pole		320-0608	2	190/208/220/240/600 VAC
	862-0001	12	4 Pole	76			Capacitor
51			Screw, Cap - Hex Head (5/16-18 x 7/8)		312-0204	2	190/208/220/240/600 VAC
	800-0027	12	3 Pole		312-0203	4	380/416/440/480 VAC
	800-0027	16	4 Pole	77	306-3483	4	Spacer, Actuator
52			Washer, Spring Conical (5/16)	78	800-0021	4	Screw, Cap - Hex Head (1/4-20 x 4.50)
	851-0028	12	3 Pole	79	812-0062	4	Screw, Round Head (#6-32 x 7/16)
	851-0028	16	4 Pole	80	870-0183	4	Nut, Hex - W/ET (#6-32)
53	870-0065	2	Nut, Lock (1/4-20)	81	815-0029	A/R	Screw, Flat Head - Cross Recessed (#10-32 x .50)
54	306-3995-01	1	Plate, Indicating	82	870-0131	A/R	Nut, Hex - W/ET (#10-32)
55	850-0045	4	Washer, Lock - Split	83	226-4996	1	Lead (380-480VAC)
56	870-0221	1	Nut, Hex W/ET (#8-32)	84	815-0652	6	Screw, Hex Head - Slotted (#10-32 x 1/2) (Not Illustrated)
57	870-0235	1	Nut, Self-Locking (#8-32)	85	306-3715	1	Cover, Transfer Switch (Not Illustrated)
58	406-0777	1	Spring, Extension	86	306-5406	2	Bracket, Actuator
59	815-0790-03	2	Screw, Shoulder (1/4-20 x 1-1/2)	87	306-5407	2	Bracket, Actuator
60	337-2465	2	Bus, Spacer - 4 Pole	88	516-2138	2	Pin, Clevis
61	815-0656	4	Screw, Machine - Round Head - Cross Recessed W/IT (1/4-20 x 2-3/4) - 4 Pole	89	508-1332	2	Bushing
62	306-4854	2	Chute, Arc - 4 Pole	90	516-2141	2	Pin, Cotter
63	306-3576	2	Cover, Arc Chute - 4 Pole	91	306-5398	2	Rod, Actuator (Stop Sleeve)
64	306-2352	2	Insulator, Arc Chute - 4 Pole	92	516-2139	2	Pin, Spring
65	816-0098	4	Bolt, Carriage				
66	815-0527	4	Screw, Pan Head - Thread Cutting (#10 x 1/2)				

Bypass Switch **3-Pole Front Connect**

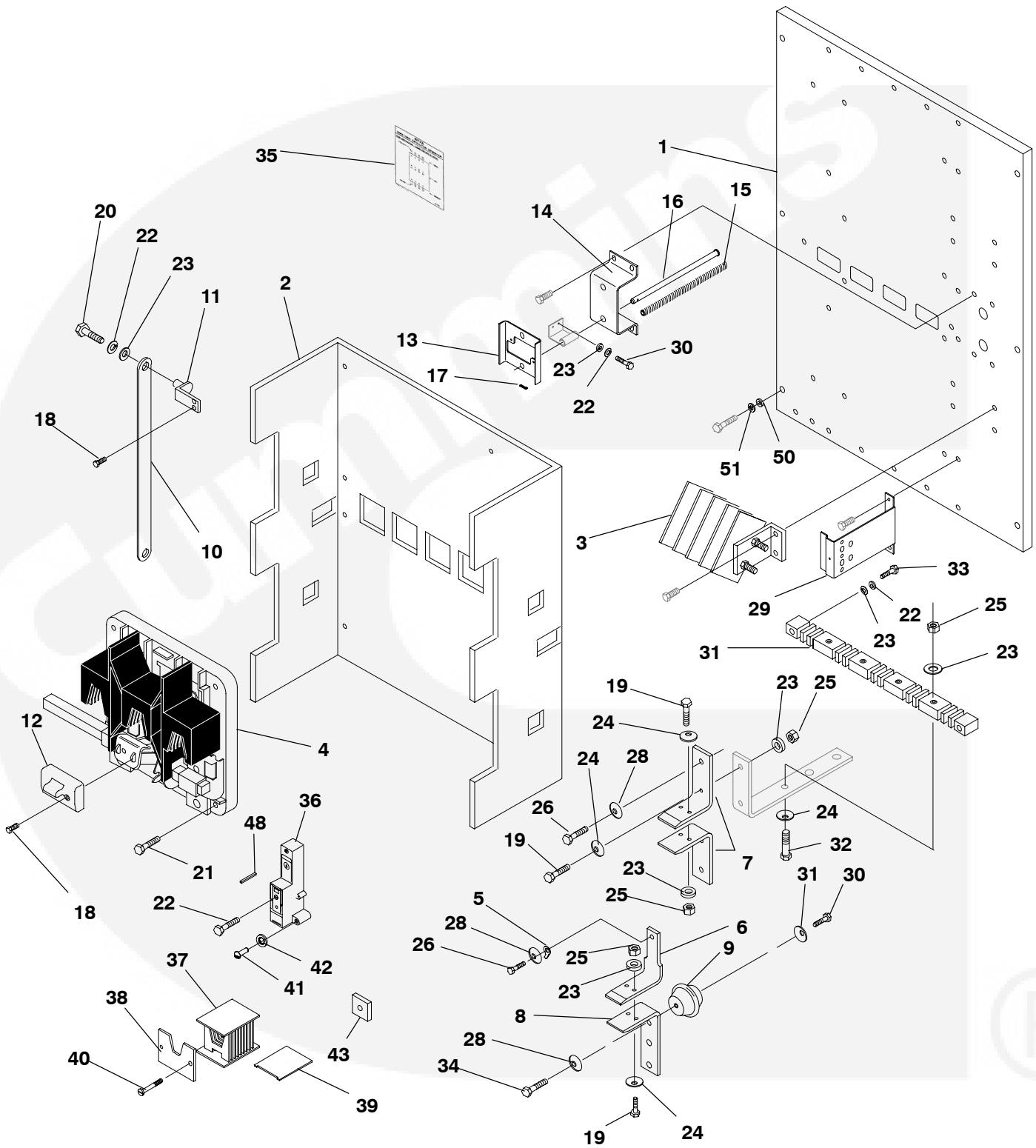


Bypass Switch 3-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3633	1	Base, Insert	22	800-0010	8	Screw, Cap – Hex Head (1/4-20 x 1-3/4)
2	306-3649	1	Barrier, Base	23	850-0040	6	Washer, Lock (1/4)
3	306-4749	2	Switch Assembly, Auxiliary (See Separate Page for Components)	24	526-0018	30	Washer, Flat (1/4)
4			Block and Crossbar Assembly	25	851-0027	24	Washer, Spring – Conical (1/4)
	306-5231-01	1	Normal	26	862-0001	24	Nut, Hex (1/4-20)
	306-5231-02	1	Emergency	27	800-0028	21	Screw, Cap – Hex Head (5/16-18 x 1.00)
5	332-2463	10	Terminal, Ring	28	800-0030	3	Screw, Cap – Hex Head (5/16-18 x 1.25)
6	337-2459	6	Bus, Normal/Emergency Stab	29	800-0031	3	Screw, Cap – Hex Head (5/16-18 x 1-1/2)
7	337-2460	3	Bus, Load	30	526-0022	3	Washer, Flat (5/16)
8	337-2461	6	Bus, Load – Stab	31	851-0028	27	Washer, Spring – Conical (5/16)
9	337-2458	6	Bus, Normal/Emergency Lug	32	862-0015	6	Nut, Hex (5/16-18)
10	332-2305	6	Standoff, Insulator	33	306-3663	3	Bracket, Shutter
11	306-3482	1	Bar, Interlock	34	337-1049	1	Bar, Neutral
12	306-3729	2	Arm, Interlock	35	800-0036-01	2	Screw, Cap – Hex Head (5/16-18 x 2.75)
13	306-3712	2	Handle, Actuator	36	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)
14	306-3717	1	Bracket, Secdisc Plug	37	332-1348	2	Spacer, Neutral Bar
15	306-3716	1	Bracket, Secdisc Base	38	226-4333-01	1	Lead
16	306-3713	2	Spring, Secdisc	39	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1.25)
17	516-0238	2	Pin, Clevis	40	526-0029	6	Washer, Flat (3/8)
18	516-0040	2	Pin, Cotter (3/32 x 1)	41	850-0050	6	Washer, Lock (3/8)
19	815-0446	8	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .50)	42			Lug, Solderless
20	800-0007	24	Screw, Cap – Hex Head (1/4-20 x 1.00)		332-3038	12	150/225 Amp
21	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)		332-3039	12	260 Amp



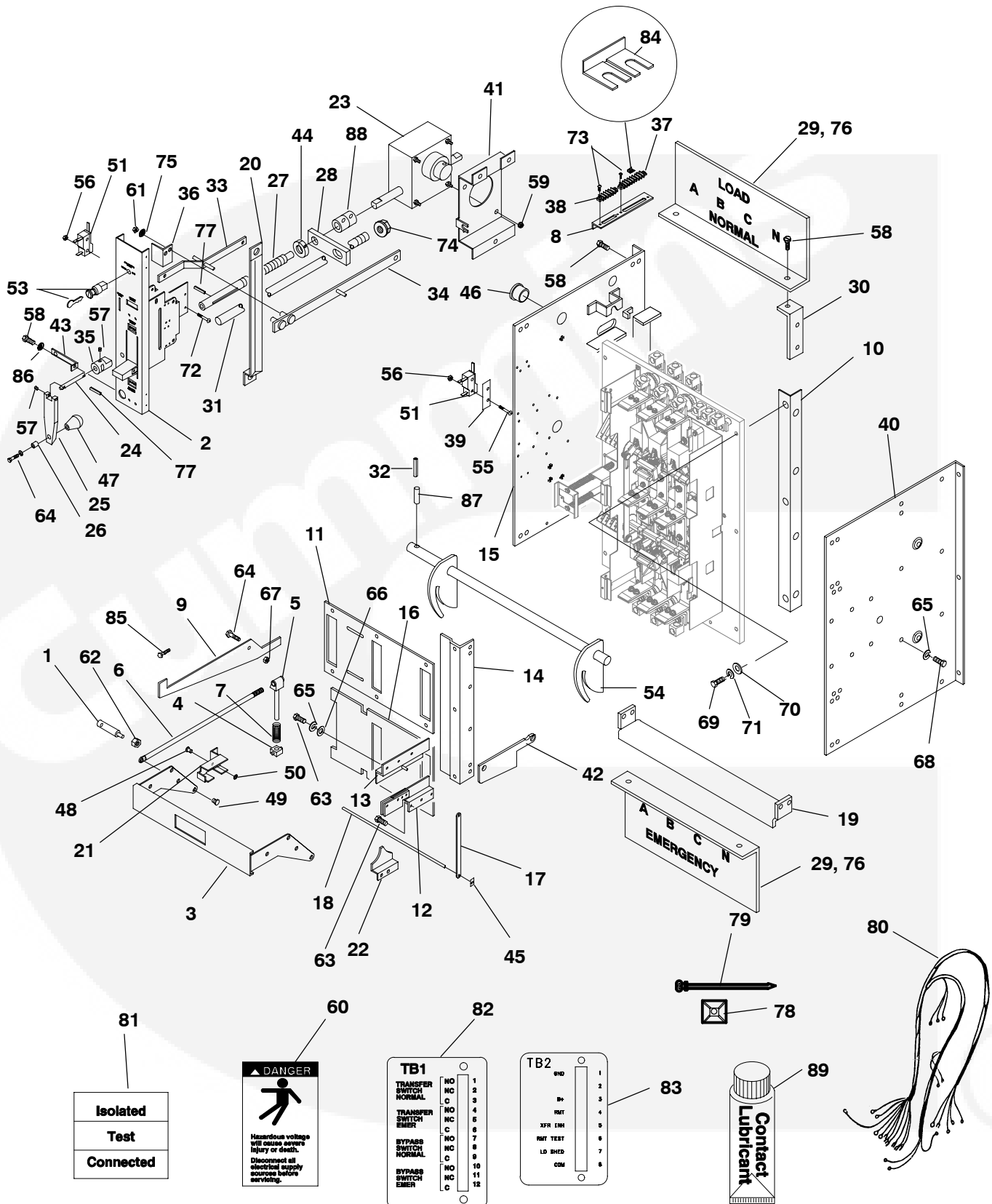
Bypass Switch 4-Pole Rear Connect



Bypass Switch 4-Pole Rear Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3633	1	Base, Insert	25	862-0001	36	Nut, Hex (1/4-20)
2	306-3649	1	Barrier, Base	26	800-0028	16	Screw, Cap - Hex Head (5/16-18 x 1.00)
3	306-4749	2	Switch Assembly, Auxiliary (See Separate Page for Components)	27	800-0030	8	Screw, Cap - Hex Head (5/16-18 x 1.25)
4			Block and Crossbar Assembly	28	851-0028	32	Washer, Spring - Conical (5/16)
	306-5232-01	1	Normal	29	306-3663	3	Bracket, Shutter
	306-5232-02	1	Emergency	30	815-0261	4	Screw, Hex Washer Head - Thread Forming (1/4-20 x .50)
5	332-2463	10	Terminal, Ring	31	306-3634	1	Bar, Support
6	337-2459	8	Bus, Normal/Emergency Stab	32	800-0009	4	Screw, Cap - Hex Head (1/4-20 x 1-1/2)
7	337-2461	8	Bus, Load - Stab	33	800-0011	2	Screw, Cap - Hex Head (1/4-20 x 2.00)
8	337-2559-01	8	Bus, Normal/Emergency Lug	34	800-0026	8	Screw, Cap - Hex Head (5/16-18 x .75)
9	332-2305	8	Standoff, Insulator	35	098-6763	1	Label, Power Cable
10	306-3482	1	Bar, Interlock	36	306-5233	2	Block Assy
11	306-3729	2	Arm, Interlock	37	306-4854	2	Chute, Arc
12	306-3712	2	Handle, Actuator	38	306-3576	2	Cover, Arc Chute
13	306-3717	1	Bracket, Secdisc Plug	39	306-2352	2	Insulator, Arc Chute
14	306-3716	1	Bracket, Secdisc Base	40	815-0527	4	Screw, Pan Head - Thread Cutting (#10-1/2)
15	306-3713	2	Spring, Secdisc	41	812-0162	4	Screw, Machine - Round Head (1/4-20 x 3.00)
16	516-0238	2	Pin, Clevis	42	854-0015	4	Washer, Lock - W/IT (1/4)
17	516-0040	2	Pin, Cotter (3/32 x 1)	43	337-2465	2	Bus, Spacer
18	815-0446	8	Screw, Round Head - Cross Recessed - W/IT (#8-32 x .50)	44	880-0334	1	Glue Stick (Hot)
19	800-0007	34	Screw, Cap - Hex Head (1/4-20 x 1.00)	45	800-0051	6	Screw, Cap - Hex Head (3/8-16 x 1.25)
20	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2)	46	526-0029	6	Washer, Flat (3/8)
21	800-0010	6	Screw, Cap - Hex Head (1/4-20 x 1-3/4)	47	850-0050	6	Washer, Lock (3/8)
22	850-0040	8	Washer, Lock (1/4)				
23	526-0018	42	Washer, Flat (1/4)				
24	851-0027	36	Washer, Spring - Conical (1/4)				

Bypass Frame Assembly



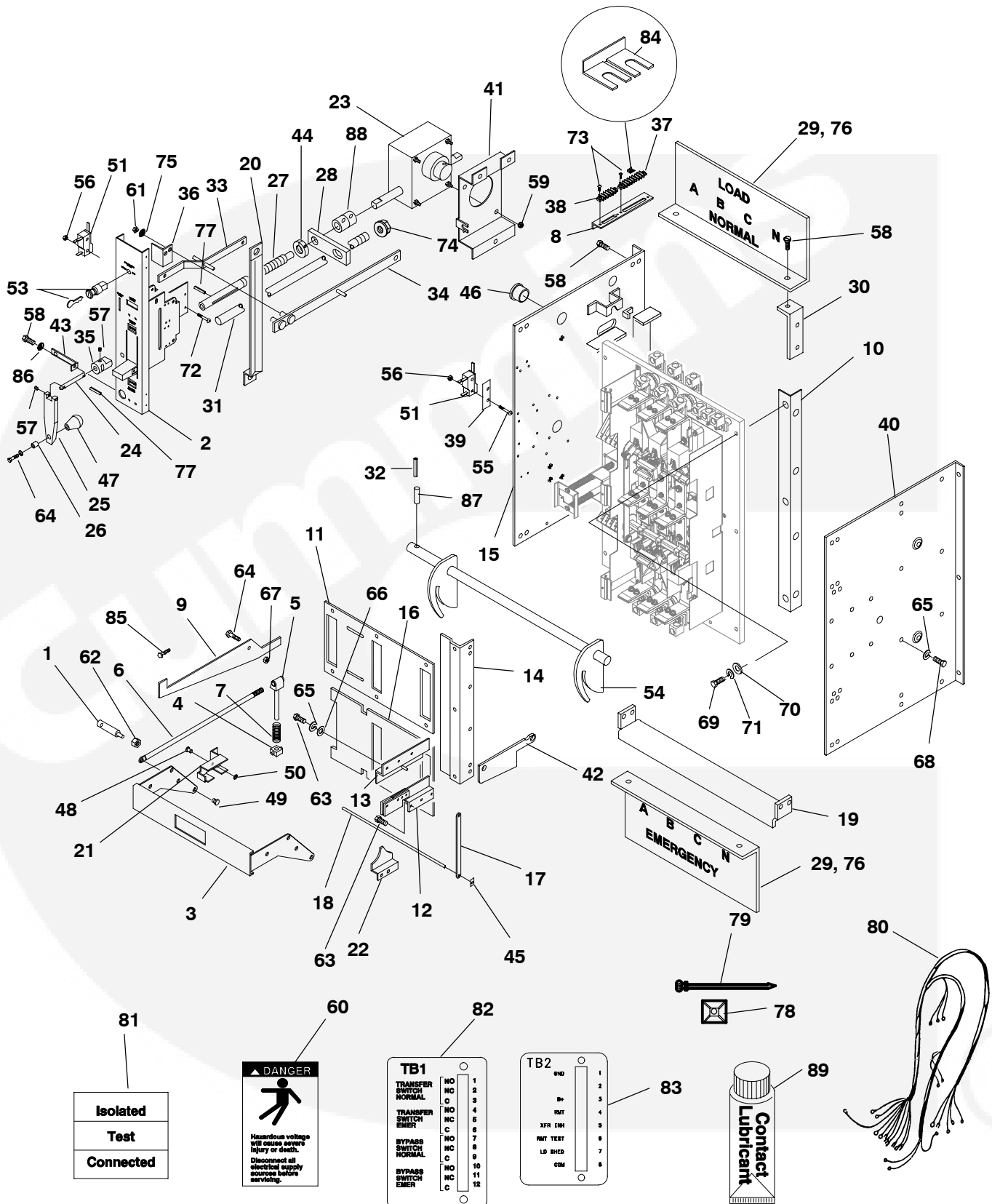
Bypass Frame Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	516-0235	2	Pin, Clevis	29	306-3738	2	Cover, Lug
2		1	Operator Assembly, Bypass (See separate page for components)	30	306-3739	4	Bracket, Lug Cover
3	306-3743	2	Bracket, Actuator	31	306-3740	1	Pin, Guide
4	306-3638	2	Guide, Plunger	32	516-0255	1	Pin, Roll (5/32 x 1)
5	306-3636	2	Plunger, Nylon	33	306-3931	1	Lever, Plunger
6	306-3648	2	Rod, Actuator	34	306-3776	1	Arm, Indicator
7	306-3650	2	Spring, Contact	35	306-3918	1	Collar, Locking
8	306-3662	1	Bracket, Terminal Block	36	306-4065-01	1	Plate, Indicating
9	306-3665	2	Rail, Pivoting	37	332-3059	1	Block, Terminal (TB1)
10	306-3668	2	Rail, Mounting - Base	38	332-2832	1	Block, Terminal (TB2)
11	306-3675	1	Cover, Shutter	39	306-1987	5	Barrier, Switch
12			Rail, Lower	40	306-3681	1	Support, Side (Right Hand)
	306-3678	1	Right Hand	41	306-3841	1	Bracket, Speed Reducer
	306-3687	1	Left Hand	42	306-3684	2	Link, Drive
13			Rail, Upper	43	306-3769	2	Bracket, Control Panel
	306-3725	1	Left Hand	44	306-3734	2	Collar, Threaded
	306-3664	1	Right Hand	45	870-0469	4	Pushnut
14	306-3680	1	Bracket, Shutter	46	508-0253	2	Bushing
15	306-3682	1	Support (Left Hand)	47	406-0714	1	Ball Knob
16	306-3683	1	Cover, Moveable	48	516-0233	11	Pin, Clevis
17	306-3685	2	Link, Shutter	49	516-0234	2	Pin, Clevis
18	306-3686	1	Rod, Shutter	50	518-0115	13	Ring, External
19	306-3688	2	Bracket, Support	51	309-0611	4	Switch, Snap Action
20	306-3702	2	Bar, Interlock	52	516-0202	1	Pin, Spring (1/8 x 1)
21			Bracket, Stop	53	308-0957	1	Switch, Selector (Includes Key)
	306-3990-01	1	Right Hand		308-0989	1	Key
	306-3989-01	1	Left Hand	54	306-3936	1	Arm, Weldment
22			Bracket, Trip	55	812-0068	4	Screw, Machine - Round Head (#6-32 x 1)
	306-4092-01	2	Right Hand	56	870-0183	8	Nut, Hex (#6-32)
	306-4091-01	1	Left Hand	57	815-0157	2	Screw, Set (#10-32 x 1/4)
23	306-3842	1	Reducer, Speed	58	815-0652	20	Screw, Hex Head Slotted (#10-32 x 1/2)
24	306-3731	1	Shaft, Draw-out	59	870-0212	4	Nut, Self-Locking - Flange (1/4-20)
25	306-3732	1	Lever, Crank				
26	306-3733	1	Spacer, Handle				
27	306-3933	1	Shaft, Threaded				
28	306-3923	1	Guide, Stop				

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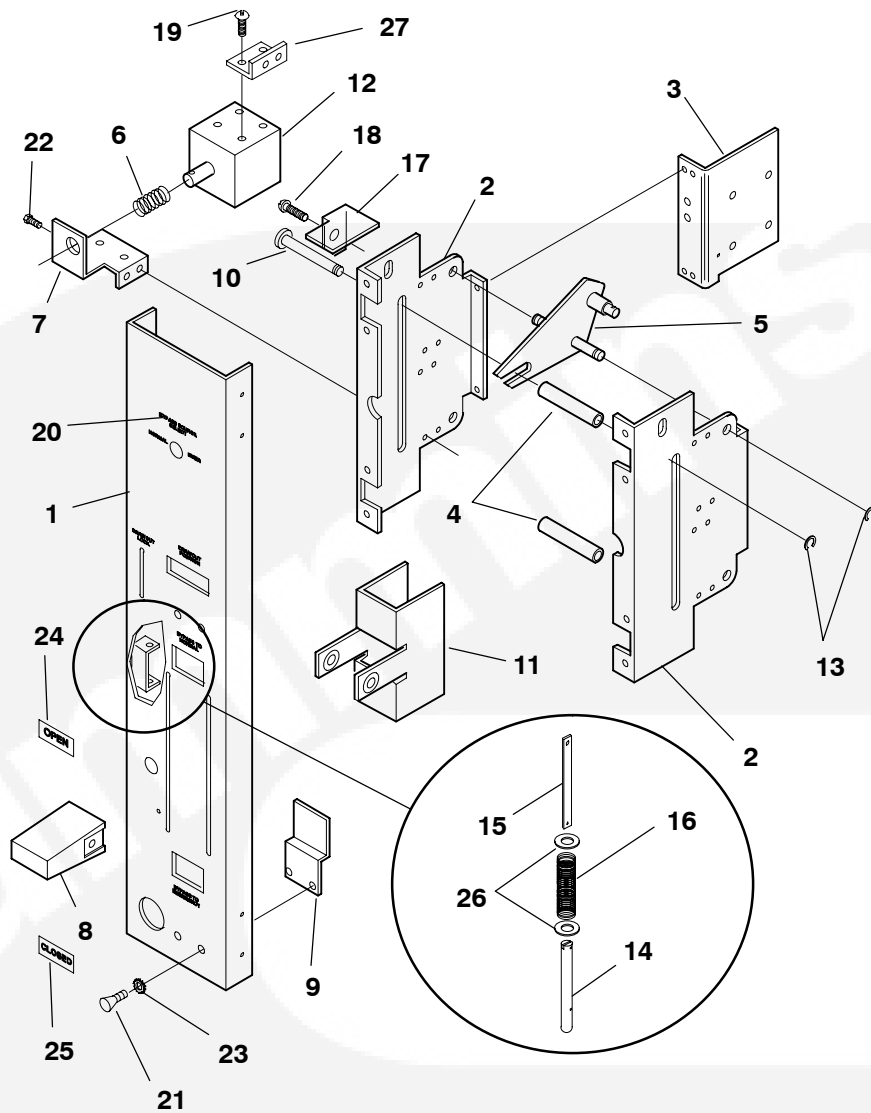
Bypass Frame Assembly



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)
				76			Label, Cover – Lug Normal
60	098-5387	1	Label, Danger		098-7323	1	Front Connect
61	870-0188	2	Nut, Locking (#10-32)		098-6764	1	Rear Connect
62	870-0048	2	Nut, Lock (5/16-18)		098-7323	1	Emergency
63	815-0290	43	Screw, Cap – Hex Head (1/4-20 x 5/8)	77	516-0253	1	Pin, Grooved
64	800-0005	3	Screw, Cap – Hex Head (1/4-20 x 3/4)	78	332-2420	6	Mount, Tie – Cable
65	850-0040	12	Washer, Lock (1/4)	79	332-0941	7	Tie, Cable
66	526-0018	11	Washer, Flat (1/4)	80			Harness, Wiring – Bypass Frame
67	870-0065	8	Nut, Locking (1/4-20)		338-3809-01	1	Without Closed Transition
68	815-0261	5	Screw, Hex Washer Head – Thread Forming (1/4-20 x 1/2)		338-5248-01	1	With Closed Transition
69	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1-1/4)	81	098-6643	1	Label, Position – Transfer Switch
70	526-0029	6	Washer, Flat (3/8)	82	332-3091	1	Strip, Marker (TB1)
71	850-0050	6	Washer, Lock (3/8)	83	332-3675	1	Strip, Marker (TB2)
72	812-0072	2	Screw, Round Head (#6-32 x 1-3/4)	84	332-2605	1	Jumper, Terminal
73	815-0651	4	Screw, Machine – Round Head (Thread Rolling) (#6-32 x 3/4)	85	815-0795	2	Screw, Socket Head – Shoulder (#6-32)
74	870-0257	2	Nut, Self Locking – Flange (5/16-18)	86	526-0012	2	Washer, Flat (#10)
				87	516-0104	1	Pin, Roll (1/4 x 1-1/2)
				88	306-3965	1	Coupling, Speed Reducer
				89	524-0659	A/R	Lubricant, Contact

Bypass Operator

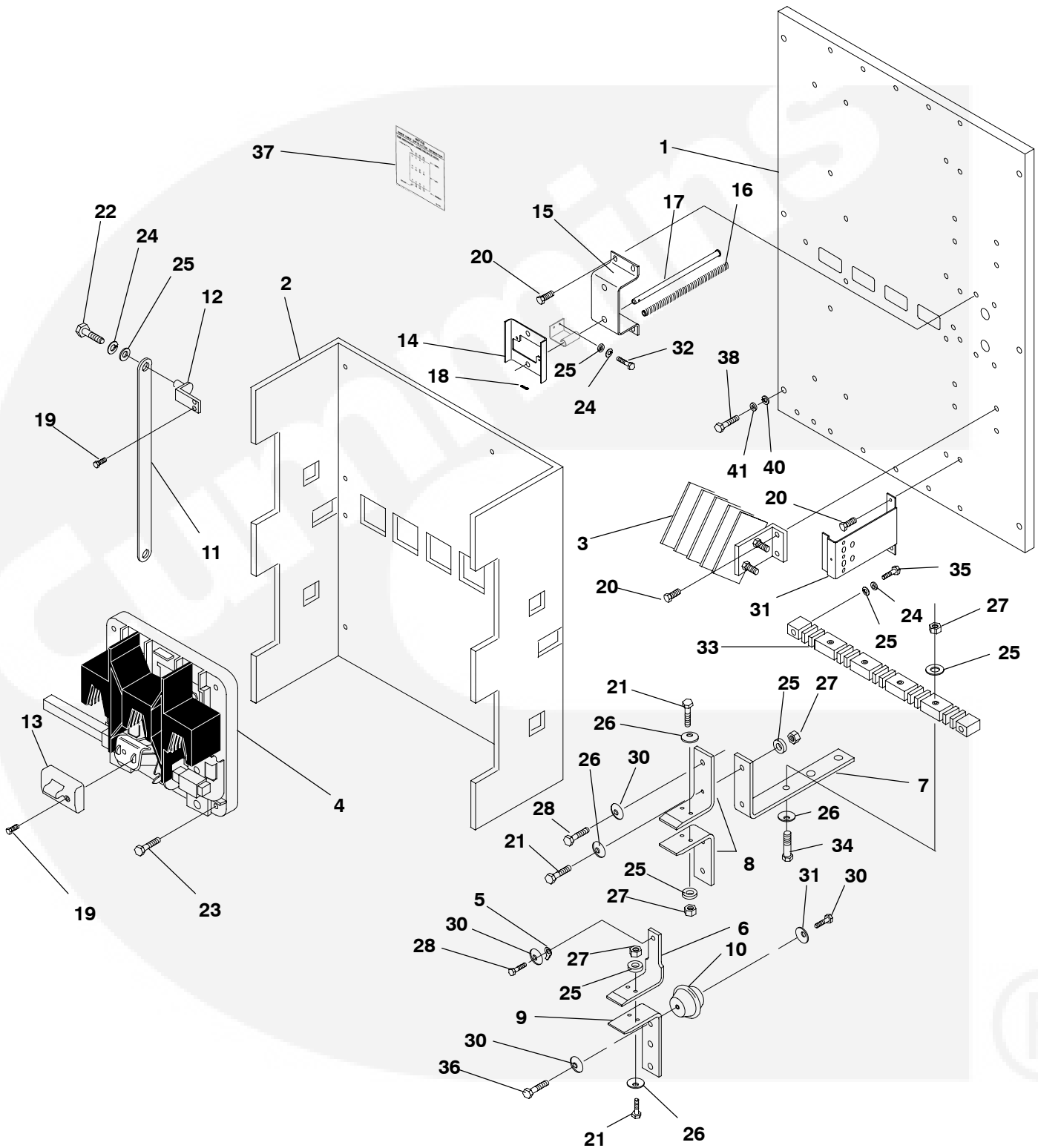


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-4499-02	1	Cover	16	306-3930	1	Spring, Plunger
2	306-3929	2	Bracket, Actuator	17	306-4067-01	1	Bracket, Stop
3	306-3646	1	Bracket, Support	18	815-0446	1	Screw, Round Head – Cross Recessed (#8-32 x 1/2)
4	306-3651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

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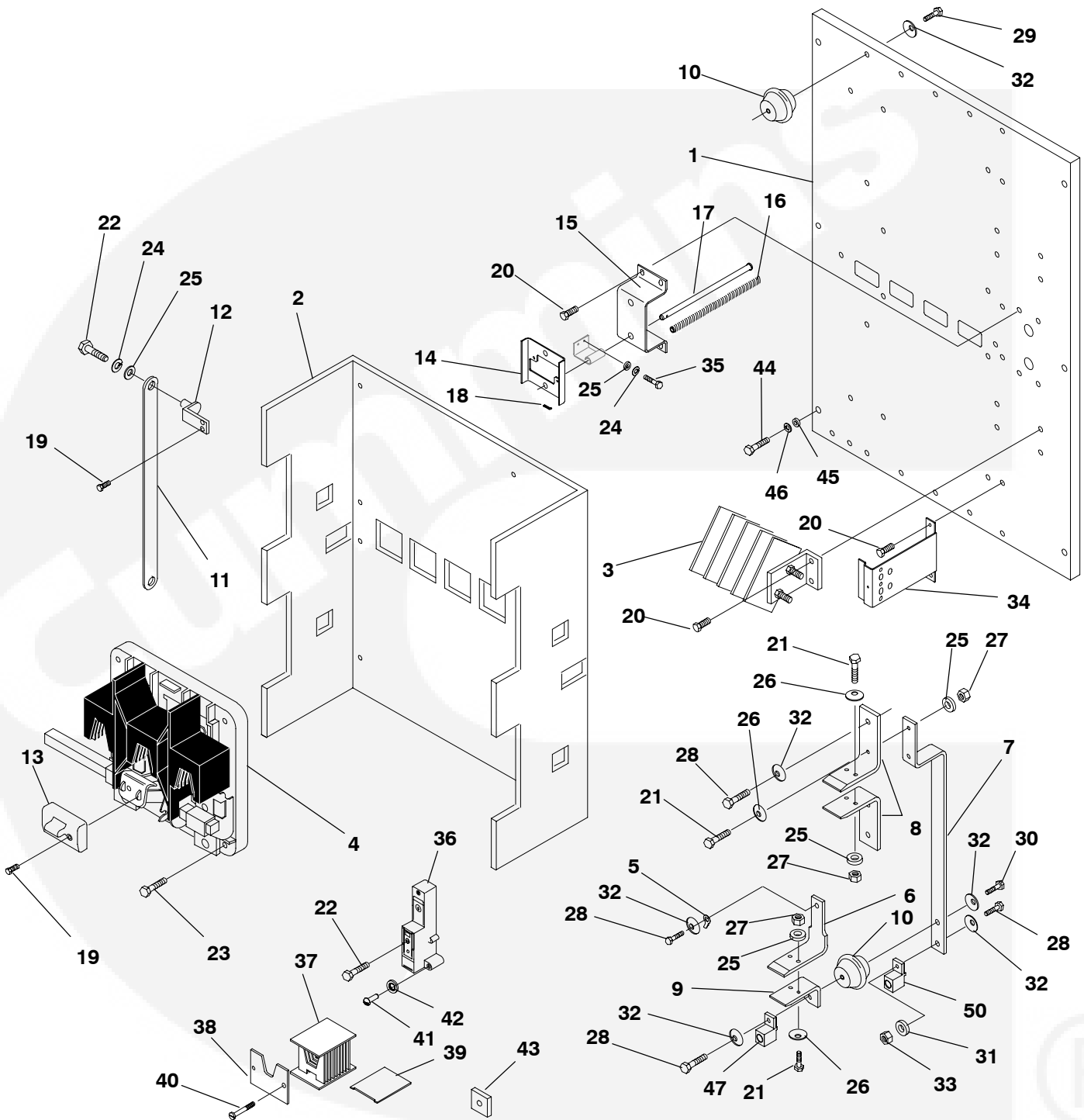
Bypass Switch 3-Pole Rear Connect



Bypass Switch 3-Pole Rear Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3633	1	Base, Insert	22	800-0003	2	Screw, Cap – Hex Head (1/4–20 x 1/2)
2	306-3649	1	Barrier, Base	23	800-0010	8	Screw, Cap – Hex Head (1/4–20 x 1-3/4)
3	306-4749	2	Switch Assembly, Auxiliary (See Separate Page for Components)	24	850-0040	8	Washer, Lock (1/4)
4			Block and Crossbar Assembly	25	526-0018	35	Washer, Flat (1/4)
	306-5231-01	1	Normal	26	851-0027	27	Washer, Spring – Conical (1/4)
	306-5231-02	1	Emergency	27	862-0001	27	Nut, Hex (1/4–20)
5	332-2463	9	Terminal, Ring	28	800-0028	12	Screw, Cap – Hex Head (5/16–18 x 1.00)
6	337-2459	6	Bus, Normal/Emergency Stab	29	800-0030	6	Screw, Cap – Hex Head (5/16–18 x 1.25)
7	337-2500	3	Bus, Load	30	851-0028	24	Washer, Spring – Conical (5/16)
8	337-2461	6	Bus, Load – Stab	31	306-3663	3	Bracket, Shutter
9	337-2559-01	6	Bus, Normal/Emergency Lug	32	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4–20 x .50)
10	332-2305	6	Standoff, Insulator	33	306-3634	1	Bar, Support
11	306-3482	1	Bar, Interlock	34	800-0009	3	Screw, Cap – Hex Head (1/4–20 x 1-1/2)
12	306-3729	2	Arm, Interlock	35	800-0011	2	Screw, Cap – Hex Head (1/4–20 x 2.00)
13	306-3712	2	Handle, Actuator	36	800-0026	6	Screw, Cap – Hex Head (5/16–18 x .75)
14	306-3717	1	Bracket, Secdisc Plug	37	098-6763	1	Label, Power Cable
15	306-3716	1	Bracket, Secdisc Base	38	800-0051	6	Screw, Cap – Hex Head (3/8–16 x 1.25)
16	306-3713	2	Spring, Secdisc	39	526-0029	6	Washer, Flat (3/8)
17	516-0238	2	Pin, Clevis	40	850-0050	6	Washer, Lock (3/8)
18	516-0040	2	Pin, Cotter (3/32 x 1)				
19	815-0446	8	Screw, Round Head – Cross Recessed – W/IT (#8–32 x .50)				
20	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10–32 x .75)				
21	800-0007	24	Screw, Cap – Hex Head (1/4–20 x 1.00)				

Bypass Switch 4-Pole Front Connect

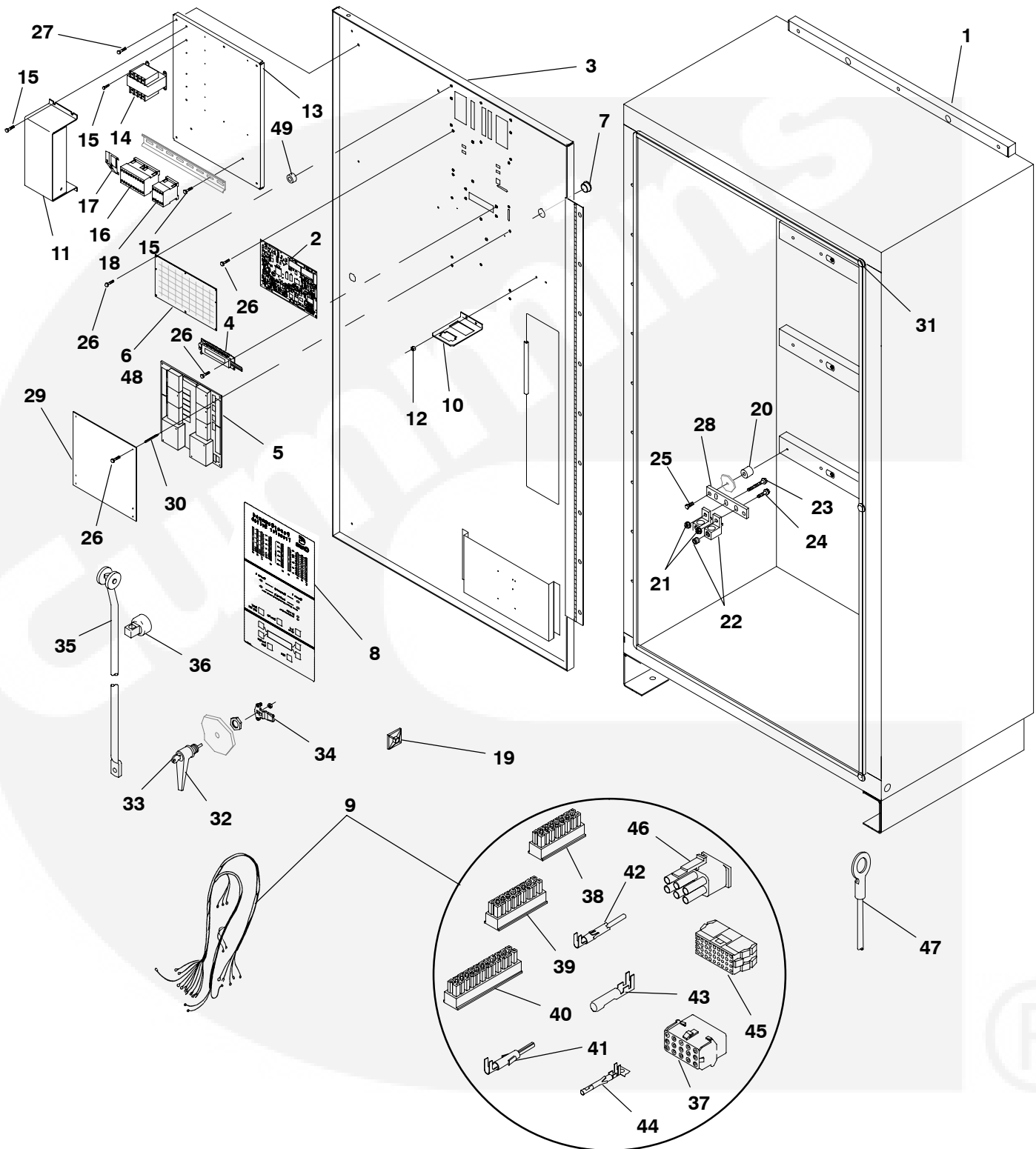


Bypass Switch 4-Pole Front Connect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	306-3633	1	Base, Insert	24	850-0040	6	Washer, Lock (1/4)
2	306-3649	1	Barrier, Base	25	526-0018	38	Washer, Flat (1/4)
3	306-4749	2	Switch Assembly, Auxiliary (See Separate Page for Components)	26	851-0027	32	Washer, Spring – Conical (1/4)
4			Block and Crossbar Assembly	27	862-0001	32	Nut, Hex (1/4-20)
	306-5232-01	1	Normal	28	800-0028	28	Screw, Cap – Hex Head (5/16-18 x 1.00)
	306-5232-02	1	Emergency	29	800-0030	4	Screw, Cap – Hex Head (5/16-18 x 1.25)
5	332-2463	10	Terminal, Ring	30	800-0031	4	Screw, Cap – Hex Head (5/16-18 x 1-1/2)
6	337-2459	8	Bus, Normal/Emergency Stab	31	526-0022	4	Washer, Flat (5/16)
7	337-2460	4	Bus, Load	32	851-0028	32	Washer, Spring – Conical (5/16)
8	337-2461	8	Bus, Load – Stab	33	862-0015	4	Nut, Hex (5/16-18)
9	337-2458	8	Bus, Normal/Emergency Lug	34	306-3663	3	Bracket, Shutter
10	332-2305	8	Standoff, Insulator	35	815-0261	4	Screw, Hex Washer Head – Thread Forming (1/4-20 x .50)
11	306-3482	1	Bar, Interlock	36	306-5233	2	Block Assy
12	306-3729	2	Arm, Interlock	37	306-4854	2	Chute, Arc
13	306-3712	2	Handle, Actuator	38	306-3576	2	Cover, Arc Chute
14	306-3717	1	Bracket, Secdisc Plug	39	306-2352	2	Insulator, Arc Chute
15	306-3716	1	Bracket, Secdisc Base	40	815-0527	4	Screw, Pan Head – Thread Cutting (#10-1/2)
16	306-3713	2	Spring, Secdisc	41	812-0162	4	Screw, Machine – Round Head (1/4-20 x 3.00)
17	516-0238	2	Pin, Clevis	42	854-0015	4	Washer, Lock – W/IT (1/4)
18	516-0040	2	Pin, Cotter (3/32 x 1)	43	337-2465	2	Bus, Spacer
19	815-0446	8	Screw, Round Head – Cross Recessed – W/IT (#8-32 x .50)	44	800-0051	6	Screw, Cap – Hex Head (3/8-16 x 1.25)
20	815-0449	18	Screw, Pan Head – Cross Recessed – W/ET (#10-32 x .75)	45	526-0029	6	Washer, Flat (3/8)
21	800-0007	34	Screw, Cap – Hex Head (1/4-20 x 1.00)	46	850-0050	6	Washer, Lock (3/8)
22	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2)	47			Lug, Solderless
23	800-0010	6	Screw, Cap – Hex Head (1/4-20 x 1-3/4)		332-3038	12	150/225 Amp
					332-3039	12	260 Amp



Cabinet Type 1



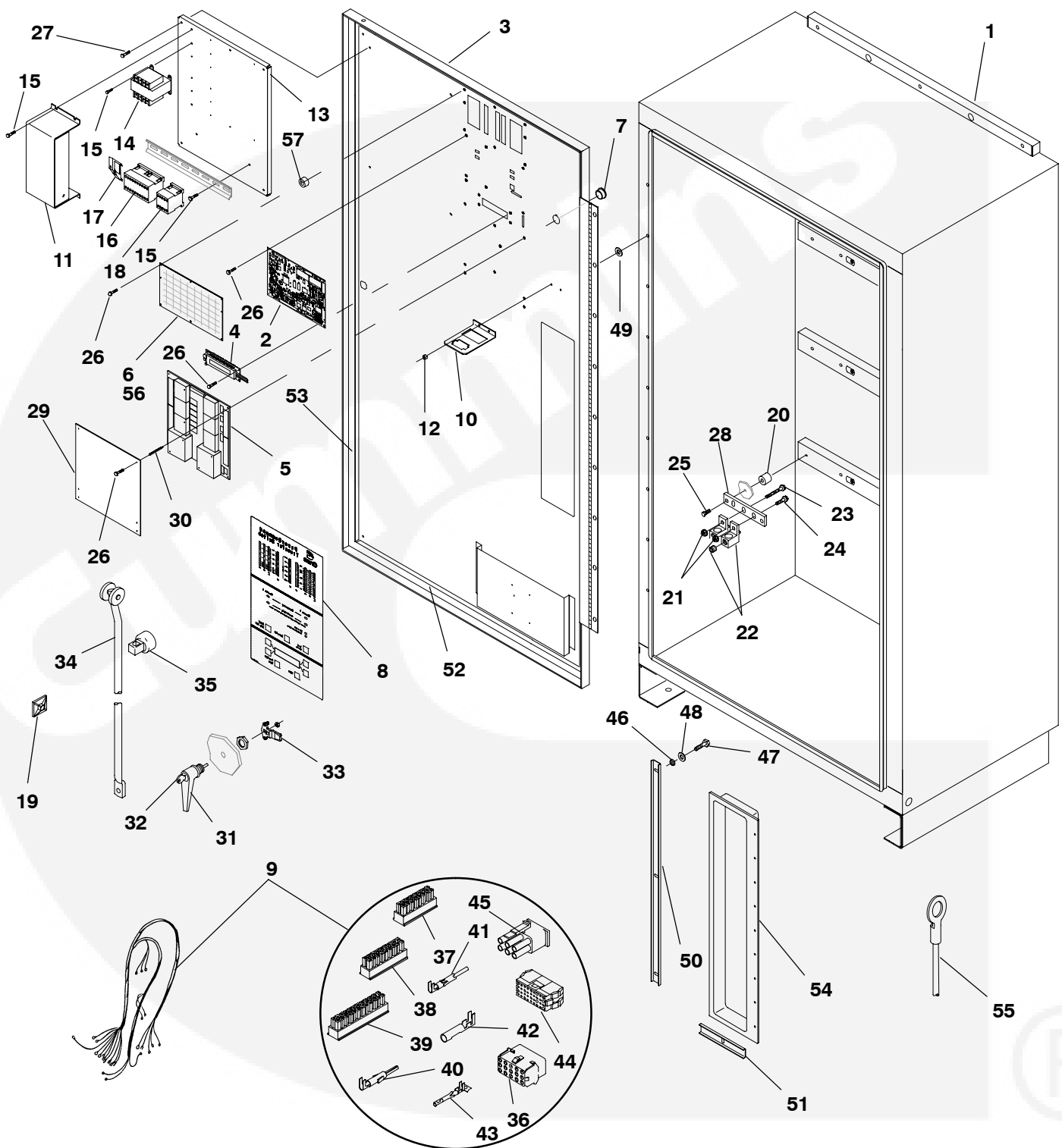
Cabinet Type 1

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4297-02	1	Box, Control	23	821-0012	1	Screw, Self-Locking – Flange Head (1/4–20 x 1-1/8)
2	300-5147-04	1	Board, Printed Circuit – Digital Without Closed Transition	24	821-0018	2	Screw, Self-Locking – Flange Head (1/4–20 x 5/8)
	300-5147-05	1	With Closed Transition	25	815-0567	2	Screw, Hex Head – Thread Cutting (5/16–18 x 1.25)
3	319-4150-02	1	Door, Control	26	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)
4	300-5151	1	Module, Digital Display	27	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
5			Board, Printed Circuit – Power Module	28	332-0772	1	Connector, Neutral Bar
	300-5149-06	1	208/220/240/440/480 VAC	29	306-4523	1	Cover, Printed Circuit Board
	300-5149-07	1	600 VAC	30	870-2216	4	Standoff, Male Snap
	300-5149-08	1	190/380/416 VAC	31	508-0231	3	Bumper
6	300-5180	1	Board, Printed Circuit – Bar Graph	32	406-0613	1	Handle, Door (Includes Key)
7	517-0137	5	Plug, Hole	33	406-0649	1	Key, Replacement
8	300-5186	1	Panel, Membrane Without Bar Graph	34	306-3525	1	Latch, Cam (3 Point)
	300-5271	1	With Bar Graph	35	306-3526-05	2	Rod, Roller
9			Harness, Control (Includes Parts Marked *)	36	306-3467	2	Rod, Guide
	338-3902	1	Without Closed Transition	37	323-1253	1	* Cap, Connector (15 Pin) (J10)
	338-5250	1	With Closed Transition	38	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
10	306-3654	1	Bracket, Control Plug	39	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
11	319-4176-02	1	Cover, Panel	40	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
12	860-2006	2	Nut, Hex (M5)	41	323-1199	1	* Pin, Contact (P6)
13			Panel, Control – Mounting Without Closed Transition	42	323-1703	2	* Pin, Contact (P6)
	319-4177-02	1	With Closed Transition	43	323-1200	13	* Socket, Contact (J10)
	319-7357-02	1	Transformer, Power	44	332-3606	20	* Socket, Contact (J12, J13, J27)
14			190/208/220/240/480 VAC	45	323-1525	1	* Plug, Connector (36 Place) (J1)
	315-0693-02	2	380/416 VAC	46	323-1317	1	* Plug, Connector (6 Place) (P6)
	315-0693-03	2	600 VAC	47			Lead (Quantity Used as Required)
	315-0693-04	2			226-3554-01	1	6.0"
15	815-0652	14	Screw, Hex Head – Thread Forming (10–32 x .50)		226-3554-02	1	3.0"
16	307-2877	2	Contact, Interlocking	48	319-4139-01	1	Plate, Display Cover – Blank
17	332-2878	4	Bracket, End – Terminal	49	870-2218-01	4	Standoff, Nylon
18			Relay, Control – 24 VAC Without Closed Transition				
	307-2875	1	With Closed Transition				
	307-2876	4					
19	332-2420	8	Mount, Cable Tie				
20	332-1348	2	Spacer, Neutral Bar				
21	870-0212	3	Nut, Hex – Locking (1/4–20)				
22	332-3084	3	Lug, Solderless				

* Parts Included in 338-3902 and 338-5250 Wiring Harness



Cabinet Type 3R and 12

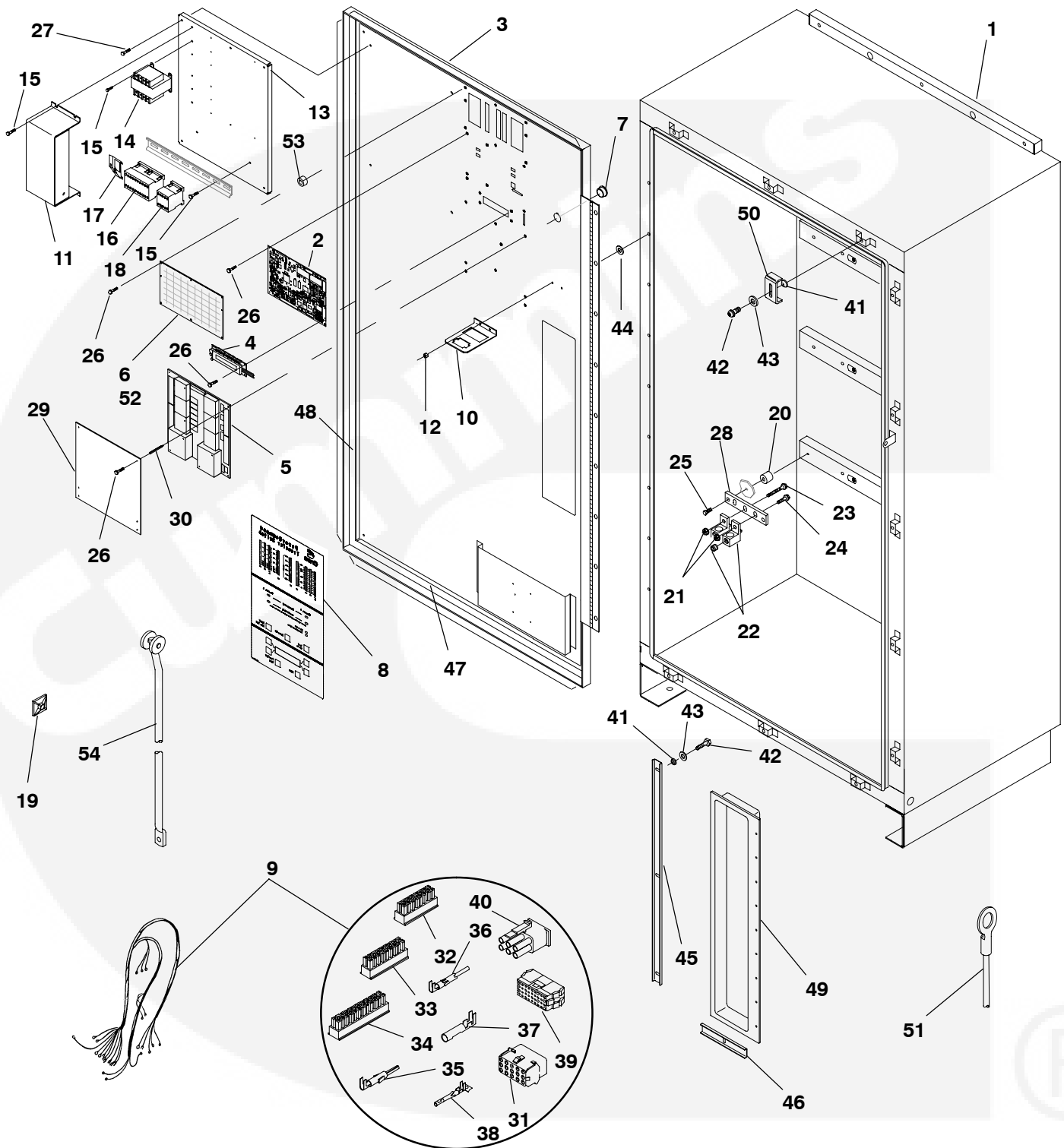


Cabinet Type 3R and 12

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Control	25	815-0567	2	Screw, Hex Head – Thread Cutting (5/16–18 x 1.25)
	319-4298-03	1	Type 3R	26	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)
	319-4298-04	1	Type 12	27	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
2			Board, Printed Circuit – Digital	28	332-0772	1	Connector, Neutral Bar
	300-5147-04	1	Without Closed Transition	29	306-4523	1	Cover, Printed Circuit Board
	300-5147-05	1	With Closed Transition	30	870-2216	4	Standoff, Male Snap
3	319-4152-02	1	Door, Control	31	406-0613	1	Handle, Door (Includes Key)
4	300-5151	1	Module, Digital Display	32	406-0649	1	Key, Replacement
5			Board, Printed Circuit – Power Module	33	306-3525	1	Latch, Cam (3 Point)
	300-5149-06	1	208/220/240/440/480 VAC	34	306-3526-05	2	Rod, Roller
	300-5149-07	1	600 VAC	35	306-3467	2	Rod, Guide
	300-5149-08	1	190/380/416 VAC	36	323-1253	1	* Cap, Connector (15 Pin) (J10)
6	300-5180	1	Board, Printed Circuit – Bar Graph	37	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
7	517-0266	5	Plug, Hole	38	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
8			Panel, Membrane	39	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
	300-5392	1	Without Bar Graph	40	323-1199	1	* Pin, Contact (P6)
	300-5393	1	With Bar Graph	41	323-1703	2	* Pin, Contact (P6)
9			Harness, Control (Includes Parts Marked *)	42	323-1200	13	* Socket, Contact (J10)
	338-3902	1	Without Closed Transition	43	332-3606	20	* Socket, Contact (J12, J13, J27)
	338-5250	1	With Closed Transition	44	323-1525	1	* Plug, Connector (36 Place) (J1)
10	306-3654	1	Bracket, Control Plug	45	323-1317	1	* Plug, Connector (6 Place) (P6)
11	319-4176-02	1	Cover, Panel	46	406-0519	5	Spring, Conical
12	860-2006	2	Nut, Hex (M5)	47	812-0177	5	Screw, Round Head (5/16–18 x .75)
13			Panel, Control – Mounting	48	526-0022	5	Washer, Flat (5/16)
	319-4177-02	1	Without Closed Transition	49	508-0233	9	Washer, Rubber
	319-7357-02	1	With Closed Transition	50	319-1531-01	1	Clamp, Cover
14			Transformer, Power	51	319-1530-01	2	Clamp, Cover
	315-0693-02	2	190/208/220/240/480 VAC	52	895-0327	2	Gasket, Door
	315-0693-03	2	380/416 VAC	53	895-0327	2	Gasket, Door
	315-0693-04	2	600 VAC	54	319-1532	1	Cover, Operator Panel
15	815-0652	14	Screw, Hex Head – Thread Forming (10–32 x .50)	55			Lead (Quantity Used as Required)
16	307-2877	2	Contactor, Interlocking		226-3554-01	1	6.0"
17	332-2878	4	Bracket, End – Terminal		226-3554-02	1	3.0"
18			Relay, Control – 24 VAC	56	319-4139-01	1	Plate, Display Cover – Blank
	307-2875	1	Without Closed Transition	57	870-2218-01	4	Standoff, Nylon
	307-2876	4	With Closed Transition				
19	332-2420	8	Mount, Cable Tie				
20	332-1348	2	Spacer, Neutral Bar				
21	870-0212	3	Nut, Hex – Locking (1/4–20)				
22	332-3084	3	Lug, Solderless				
23	821-0012	1	Screw, Self-Locking – Flange Head (1/4–20 x 1-1/8)				
24	821-0018	2	Screw, Self-Locking – Flange Head (1/4–20 x 5/8)				

* Parts Included in 338-3902 and 338-5250 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			Box, Control	24	821-0018	2	Screw, Self-Locking – Flange Head (1/4–20 x 5/8)
	319-4299-02	1	Type 4	25	815-0567	2	Screw, Hex Head – Thread Cutting (5/16–18 x 1.25)
	319-6656	1	Type 4X	26	815-0959-03	26	Screw, Pan Head – Cross Recessed (M3 x 8)
2			Board, Printed Circuit – Digital	27	815-0960-04	4	Screw, Pan Head – Cross Recessed (M4 x 12)
	300-5147-04	1	Without Closed Transition	28	332-0772	1	Connector, Neutral Bar
	300-5147-05	1	With Closed Transition	29	306-4523	1	Cover, Printed Circuit Board
3			Door, Control	30	870-2216	4	Standoff, Male Snap
	319-4154-02	1	Type 4	31	323-1253	1	* Cap, Connector (15 Pin) (J10)
	319-6659	1	Type 4X	32	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
4	300-5151	1	Module, Digital Display	33	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
5			Board, Printed Circuit – Power Module	34	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
	300-5149-06	1	208/220/240/440/480 VAC	35	323-1199	1	* Pin, Contact (P6)
	300-5149-07	1	600 VAC	36	323-1703	2	* Pin, Contact (P6)
	300-5149-08	1	190/380/416 VAC	37	323-1200	13	* Socket, Contact (J10)
6	300-5180	1	Board, Printed Circuit – Bar Graph	38	332-3606	20	* Socket, Contact (J12, J13, J27)
7	517-0266	5	Plug, Hole	39	323-1525	1	* Plug, Connector (36 Place) (J1)
8			Panel, Membrane	40	323-1317	1	* Plug, Connector (6 Place) (P6)
	300-5392	1	Without Bar Graph	41	506-0031	16	Spring, Conical
	300-5393	1	With Bar Graph	42	800-0317	16	Screw, Round Head (5/16–18 x .75)
9			Harness, Control (Includes Parts Marked *)	43	526-2319	16	Washer, Flat (5/16)
	338-3902	1	Without Closed Transition	44	508-0233	9	Washer, Rubber
	338-5250	1	With Closed Transition	45	319-6850	1	Clamp, Cover
10	306-3654	1	Bracket, Control Plug	46	319-6849	2	Clamp, Cover
11	319-4176-02	1	Cover, Panel	47	895-0327	2	Gasket, Door
12	860-2006	2	Nut, Hex (M5)	48	895-0327	2	Gasket, Door
13			Panel, Control – Mounting	49	319-1532	1	Cover, Operator Panel
	319-4177-02	1	Without Closed Transition	50	319-4725	11	Bracket, Door
	319-7357-02	1	With Closed Transition	51			Lead (Quantity Used as Required)
14			Transformer, Power		226-3554-01	1	6.0"
	315-0693-02	2	190/208/220/240/480 VAC		226-3554-02	1	3.0"
	315-0693-03	2	380/416 VAC	52	319-4139-01	1	Plate, Display Cover – Blank
	315-0693-04	2	600 VAC	53	870-2218-01	4	Standoff, Nylon
15	815-0652	14	Screw, Hex Head – Thread Forming (10–32 x .50)	54	306-3526-05	2	Rod, Roller
16	307-2877	2	Contactor, Interlocking				
17	332-2878	4	Bracket, End – Terminal				
18			Relay, Control – 24 VAC				
	307-2875	1	Without Closed Transition				
	307-2876	4	With Closed Transition				
19	332-2420	8	Mount, Cable Tie				
20	332-1348	2	Spacer, Neutral Bar				
21	870-0212	3	Nut, Hex – Locking (1/4–20)				
22	332-3084	3	Lug, Solderless				
23	821-0012	1	Screw, Self-Locking – Flange Head (1/4–20 x 1-1/8)				

* Parts Included in 338-3902 and 338-5250 Wiring Harness

Plate – Open Construction

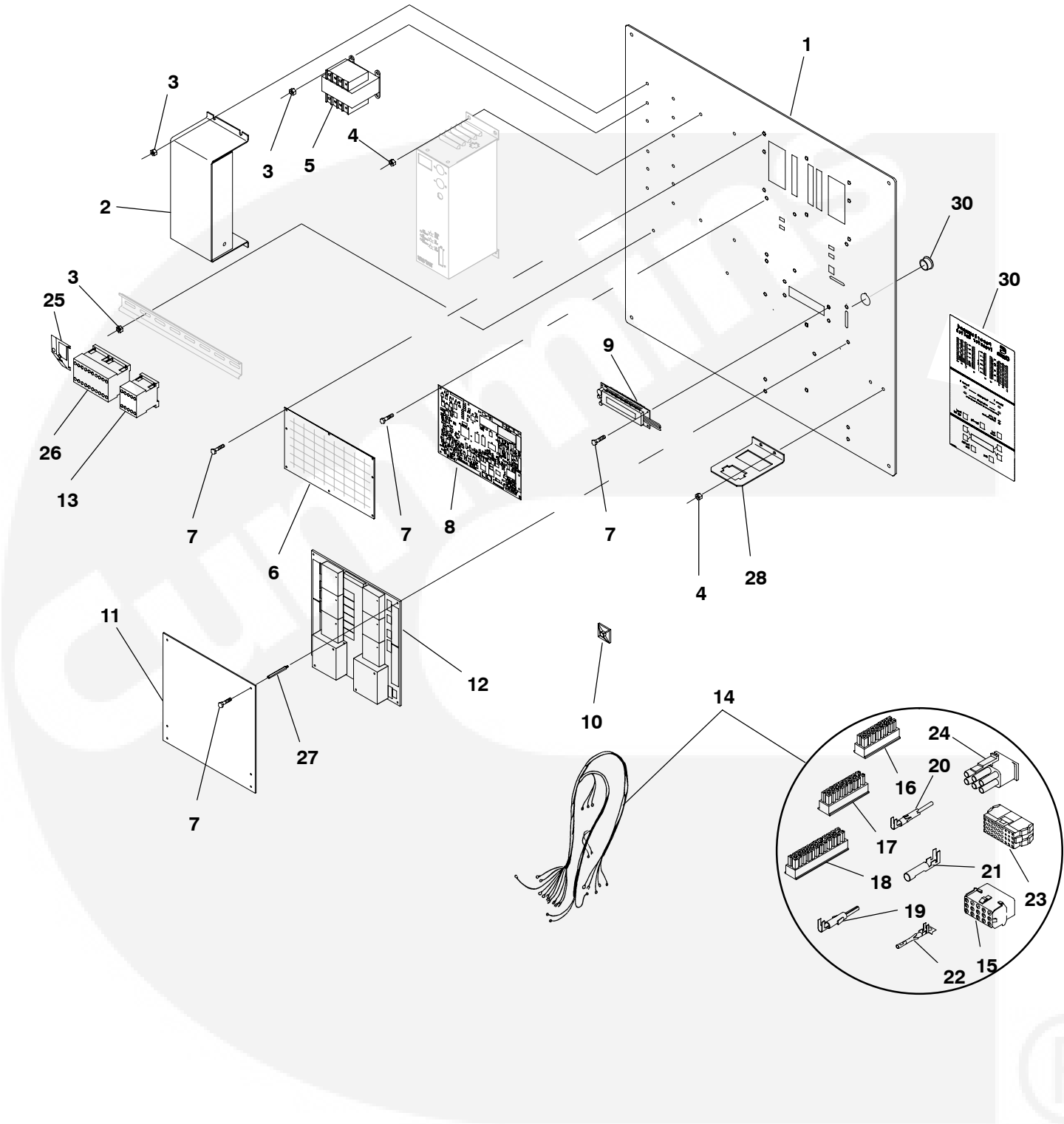


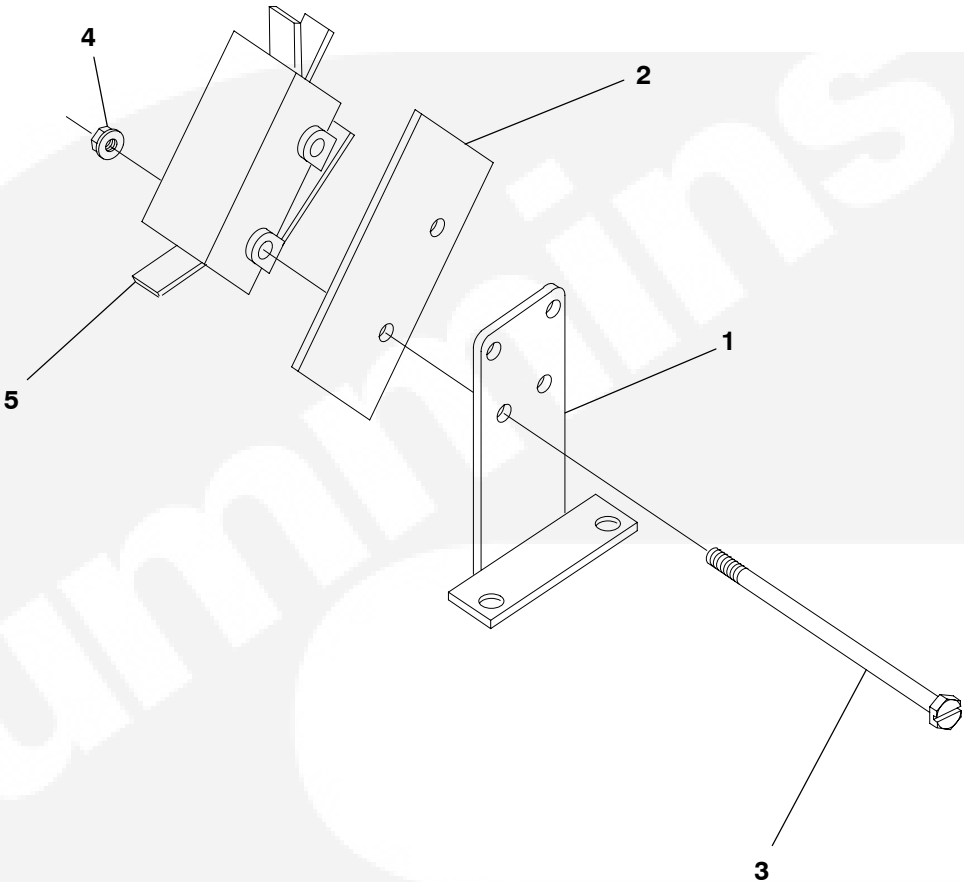
Plate – Open Construction

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Plate, Open Construction	14			Harness, Control (Includes Parts Marked *)
	319-4184-02	1	Without Closed Transition		338-3902	1	Without Closed Transition
	319-7392-02	1	With Closed Transition		338-5250	1	With Closed Transition
2	319-4176-02	1	Cover, Panel	15	323-1253	1	* Cap, Connector (15 Pin) (J10)
3	860-2005	14	Nut, Hex (M4 x 0.7)	16	323-1806-08	1	* Connector, Receptacle (16 Place) (J13)
4	860-2006	6	Nut, Hex (M5 x 0.8)	17	323-1806-09	1	* Connector, Receptacle (18 Place) (J12)
5			Transformer, Power	18	323-1806-12	1	* Connector, Receptacle (24 Place) (J27)
	315-0693-02	2	190208/220/240/480 VAC	19	323-1199	1	* Pin, Contact (P6)
	315-0693-03	2	380/416 VAC	20	323-1703	2	* Pin, Contact (P6)
	315-0693-04	2	600 VAC	21	323-1200	13	* Socket, Contact (J10)
6	300-5180	1	Board, Printed Circuit – Bar Graph	22	332-3606	20	* Socket, Contact (J12, J13, J27)
7	815-0959-03 A/R		Screw, Pan Head – Cross Recessed (M3 x 8)	23	323-1525	1	* Plug, Connector (36 Place) (J1)
8			Board, Printed Circuit – Digital	24	323-1317	1	* Plug, Connector (6 Place) (P6)
	300-5147-04	1	Without Closed Transition	25	332-2878	4	Bracket, End – Terminal
	300-5147-05	1	With Closed Transition	26	307-2877	2	Contact, Interlocking
9	300-5151	1	Module, Digital Display	27	870-2216	4	Standoff, Male Snap
10	332-2420	3	Mount, Cable Tie	28	306-3654	1	Bracket, Control Plug
11	306-4523	1	Cover, Printed Circuit Board	29			Panel, Membrane
12			Board, Printed Circuit – Power Module		300-5392	1	Without Bar Graph
	300-5149-06	1	208/220/240/440/480 VAC		300-5393	1	With Bar Graph
	300-5149-07	1	600 VAC	30	517-0266	1	Plug, Hole
	300-5149-08	1	190/380/416 VAC				
13			Relay, Control – 24 VAC				
	307-2875	1	Without Closed Transition				
	307-2876	4	With Closed Transition				

* Parts Included in 338-3902 and 338-5250 Wiring Harness

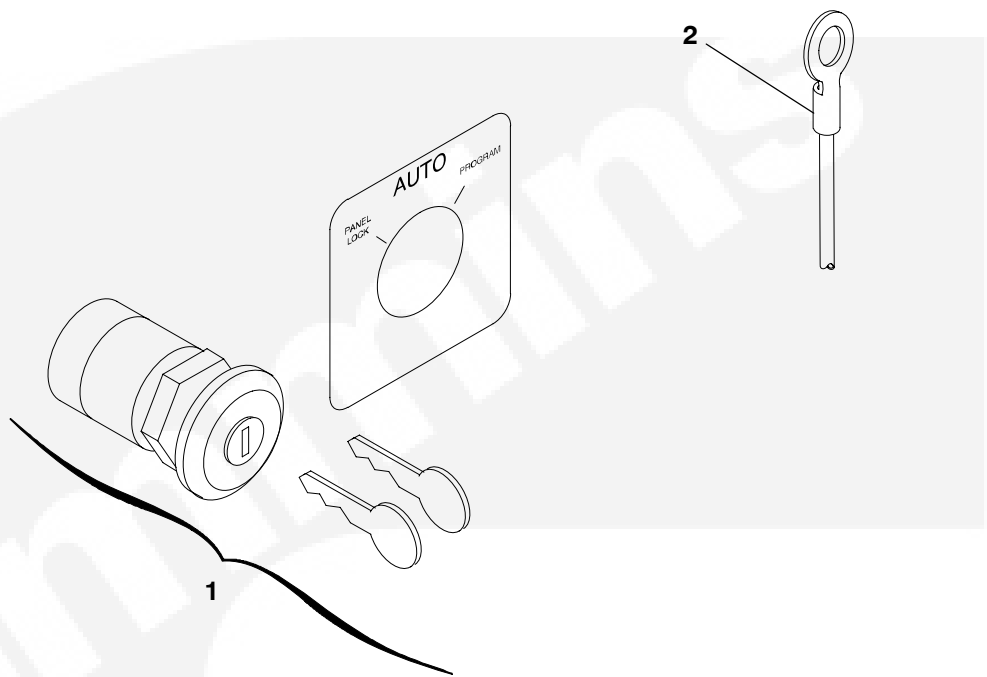


Auxiliary Switch Assembly



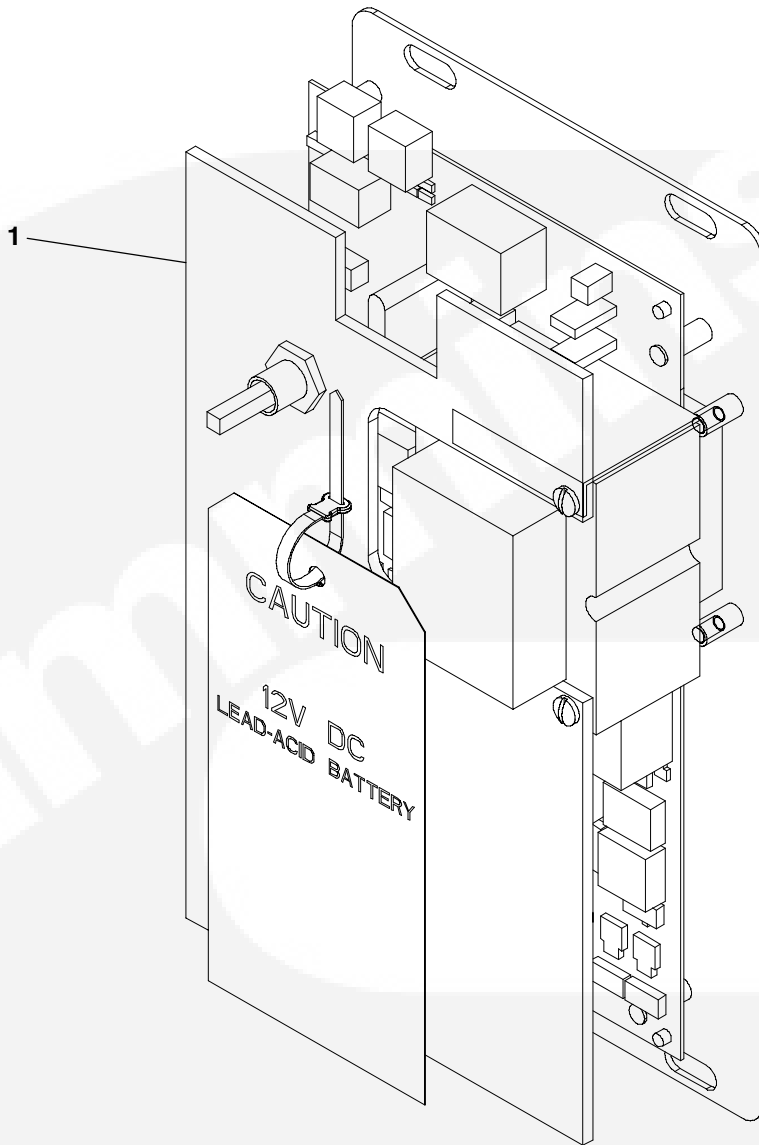
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-4749	2	Switch Assembly, Auxiliary	4	870-0201	2	Nut, Lock (#6-32)
1	306-3420	2	Bracket, Switch - Auxiliary	5	308-1166	4	Switch, Snap-Action
2	306-3391	5	Barrier, Switch				
3	815-0686	2	Screw, Cap - Hex Head (#6-32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

Front Panel Security



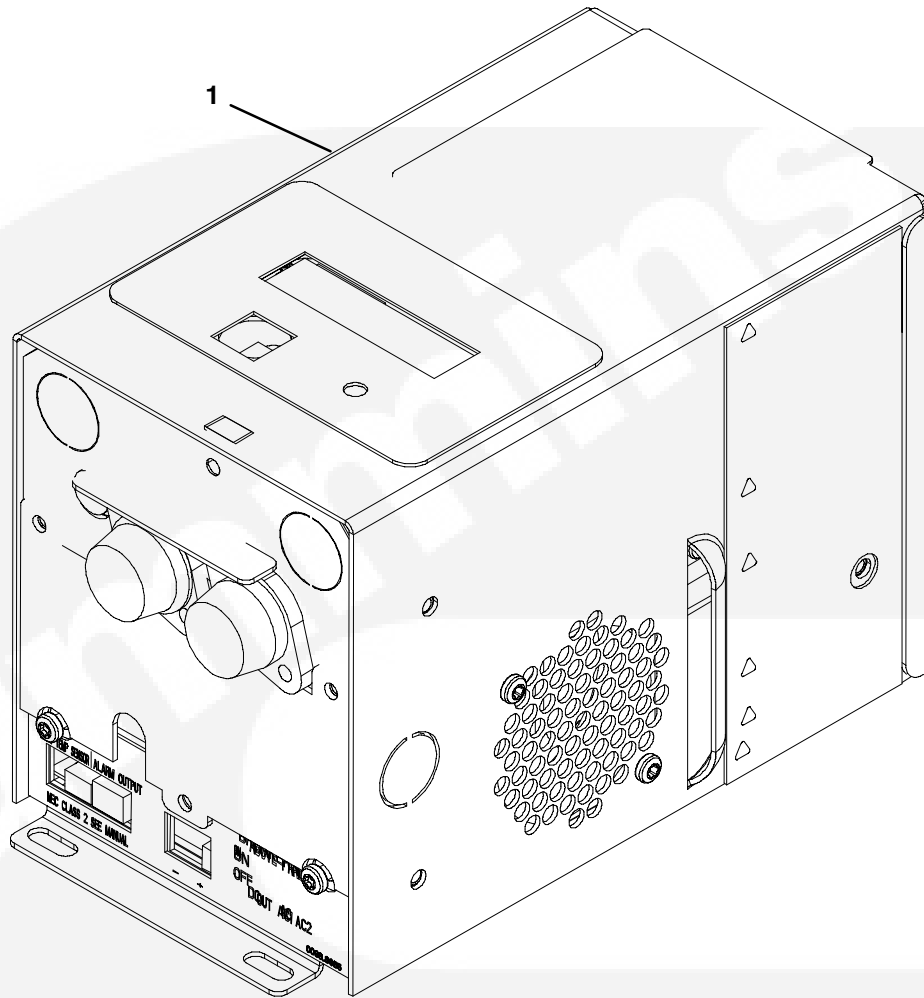
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	308-1094	1	Switch, Selector (Supplied With Legend Plate and 2 Keys)	2	226-4794-01	1	Lead 14" (Marked S20-2 - J27-5)
	308-0989	2	Spare Key		226-4794-02	1	16" (Marked S20-2 - J27-11)

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



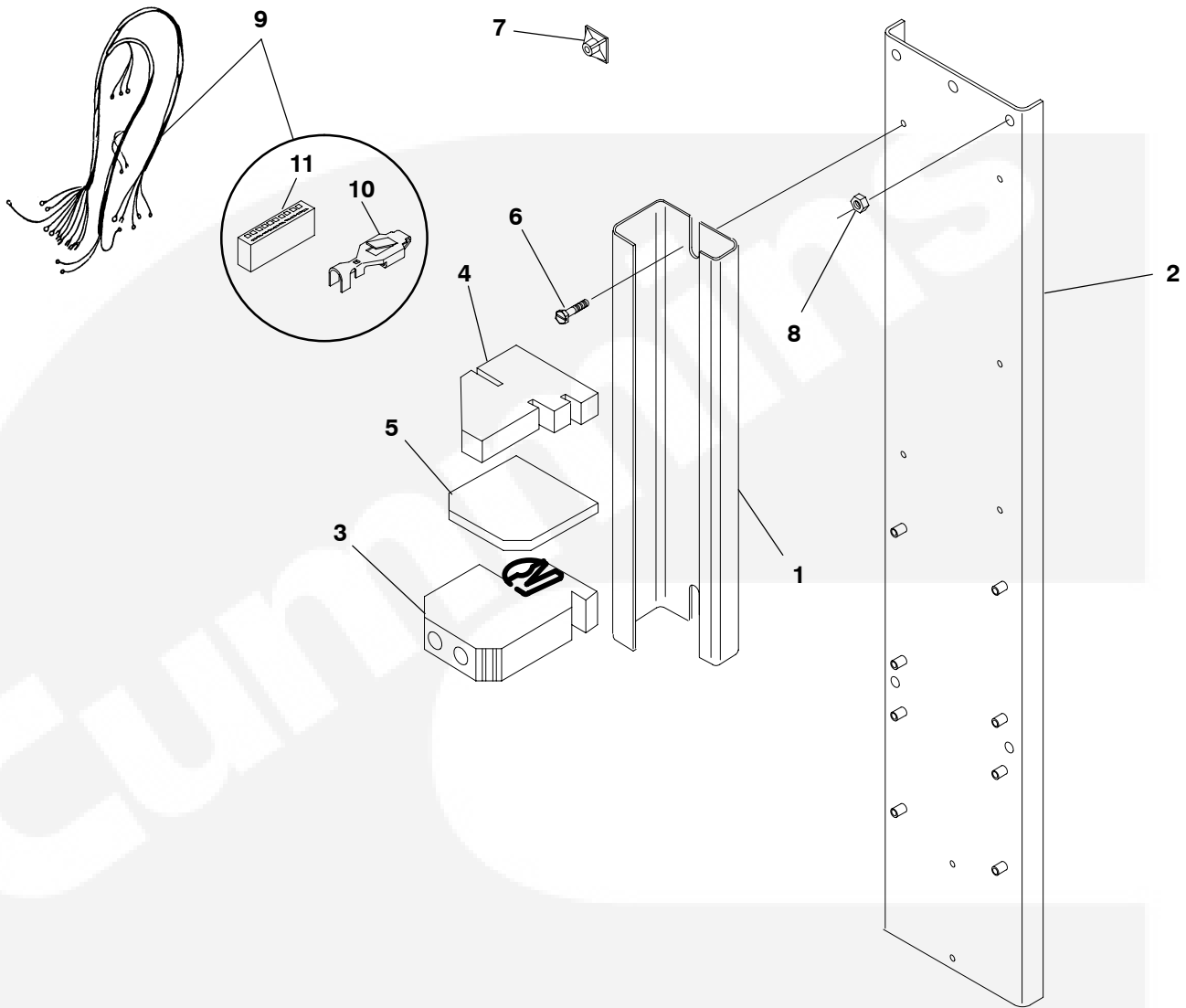
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Charger, Battery				
	300-6026-10	1	208V				
	300-6026-13	1	380V				
	300-6026-14	1	416V				
	300-6026-15	1	480V				
	300-6026-16	1	600V				

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				
	300-5878-18	1	600V				

Battery Charger Alarm

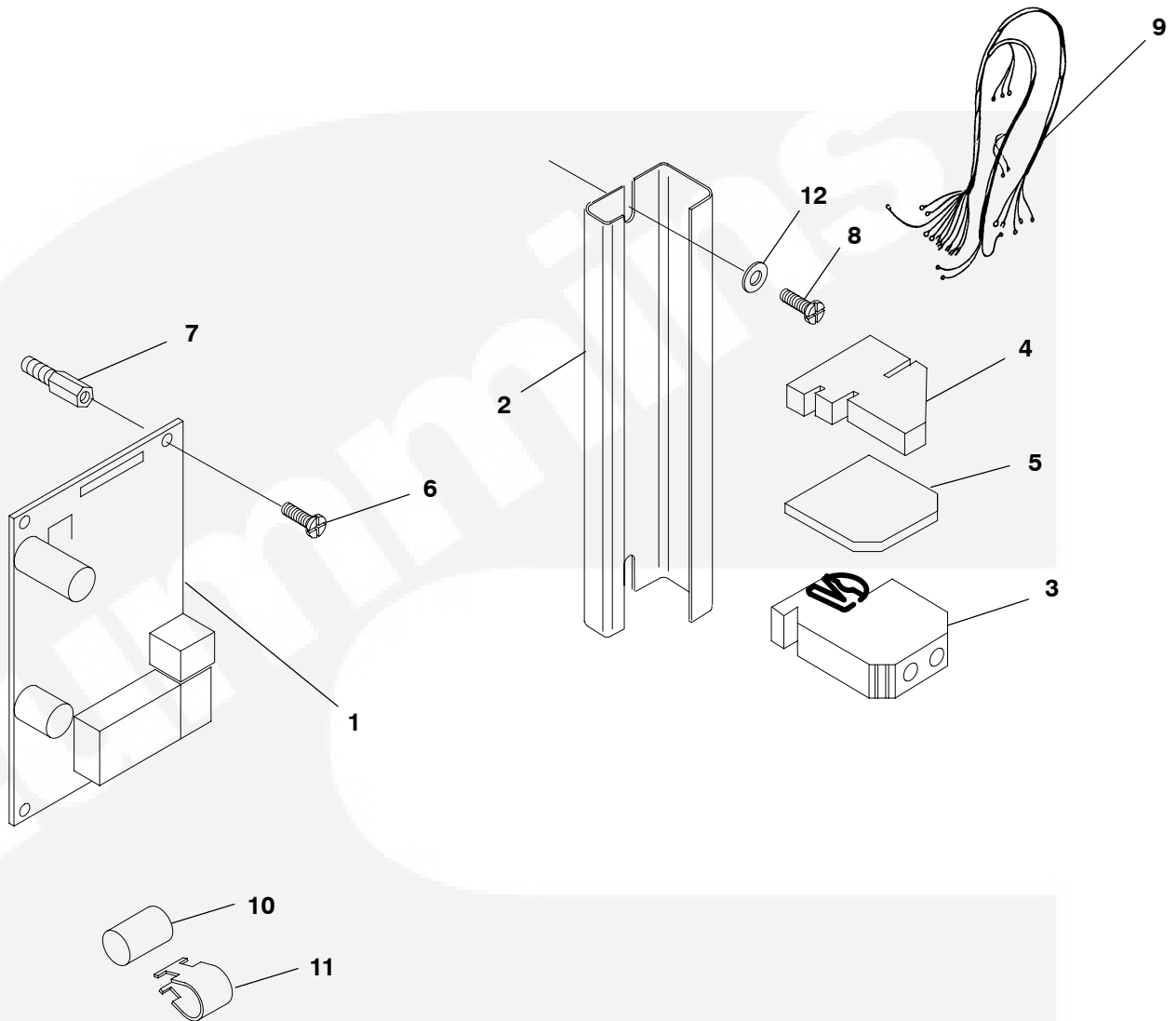


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	319-3943-01	1	Plate, Mounting
3	332-2836-02	1	Block, Terminal (Sectional)
4	332-2839	2	Bracket, End - Terminal
5	332-2841	1	Plate, End - Terminal
6	815-0792-02	2	Screw, Pan Head - Cross Recessed (M4 x 8)
7	332-2420	2	Mount, Cable Tie

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	870-0212	4	Nut, Self-Locking (1/4-20)
9	338-2350	1	Harness, Alarm (Includes Parts Marked *)
10	323-1302	9	* Pin, Contact (J2)
11	323-1374-10	1	* Housing, Connector (10 Pin) (J2)

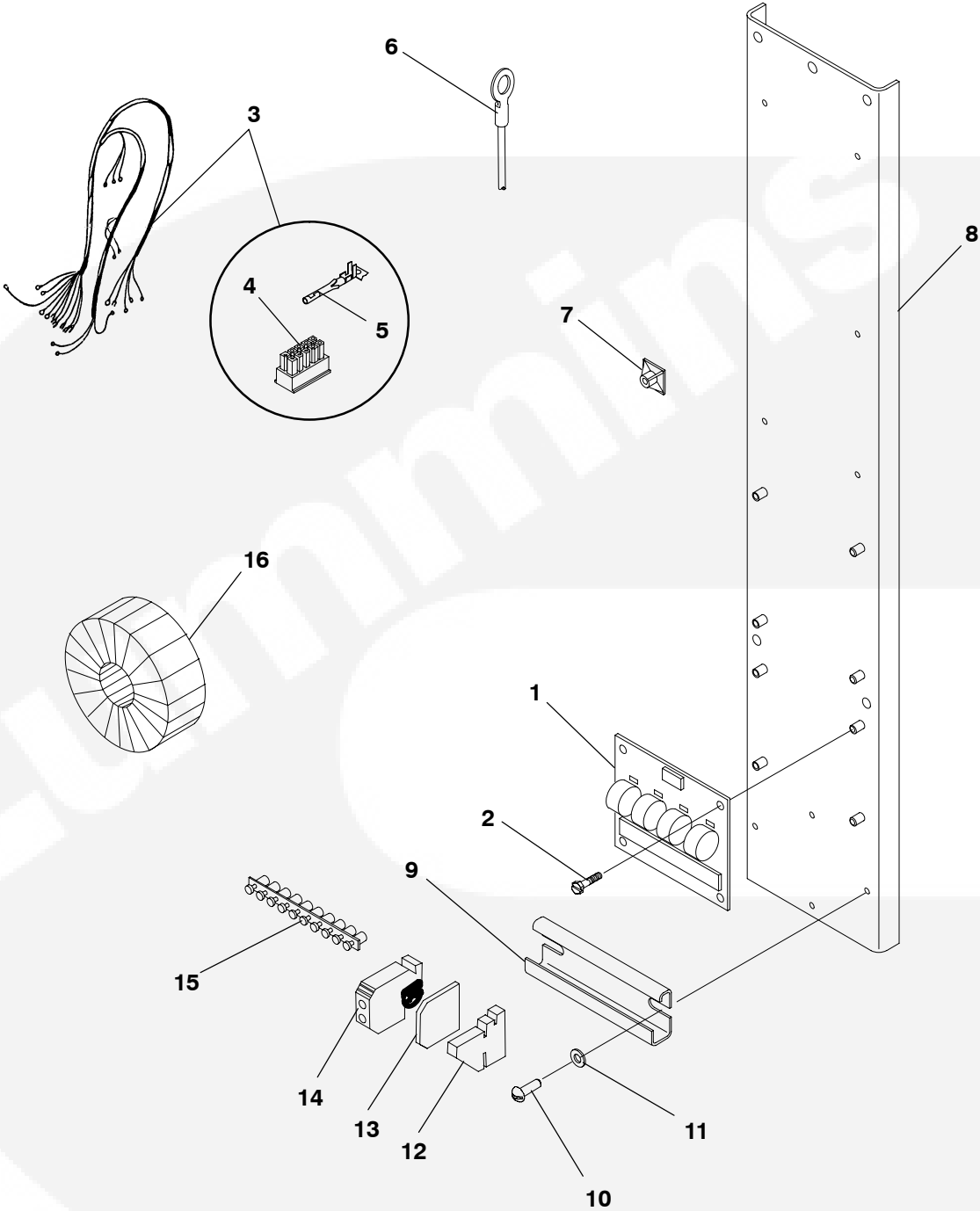
* - Parts Included in 338-2350 Wiring Harness

Network Module



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5153	1	Board, Printed Circuit – Network Module	7	870-2213-02	4	Standoff, Hex Thread (M3)
2	332-2837-09	1	Rail, Terminal Block	8	815-0955-03	2	Screw, Cap – Hex Head – Phillips – GND (M4 x 10)
3	332-2836-01	2	Block, Terminal (Sectional)	9	338-3886	1	Harness, Network
4	332-2839	2	Bracket, End – Terminal	10		2	Battery – Lithium (3.0V) (Purchase Locally)
5	332-2841	1	Plate, End – Terminal	11	416-1049	2	Clip, Battery
6	815-0959-03	4	Screw, Pan Head – Cross Recessed (M3 x 0.5 x 8)	12	526-0003	2	Washer, Flat

Current Transformer Module

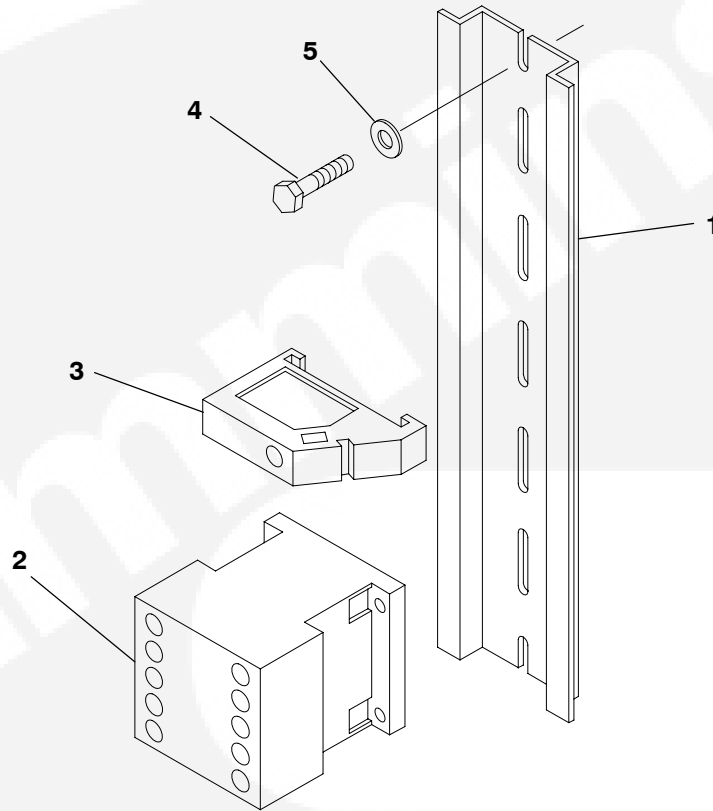


Current Transformer Module

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	815-0959-03	4	Screw, Pan Head (M3 x 8)	14	332-2836-02	1	Block, Terminal – Sectional
3	338-3884-02	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		302-1811	3	150 Amp 1 Phase, 2 or 3 Wire
6	226-4794-03	1	Lead		302-1811	4	3 Phase, 3 or 4 Wire
7	332-2420	A/R	Mount, Cable Tie		302-0209	3	225 Amp 1 Phase, 2 or 3 Wire
8	319-3943-01	1	Plate, Mounting		302-0209	4	3 Phase, 3 or 4 Wire
9	332-2837-11	1	Rail, Terminal				260 Amp
10	815-0955-03	2	Screw, Cap – Hex Head (M4 x 10)		302-1393	3	1 Phase, 2 or 3 Wire
11	526-0003	2	Washer, Flat		302-1393	4	3 Phase, 3 or 4 Wire
12	332-2839	2	Bracket, End – Terminal				

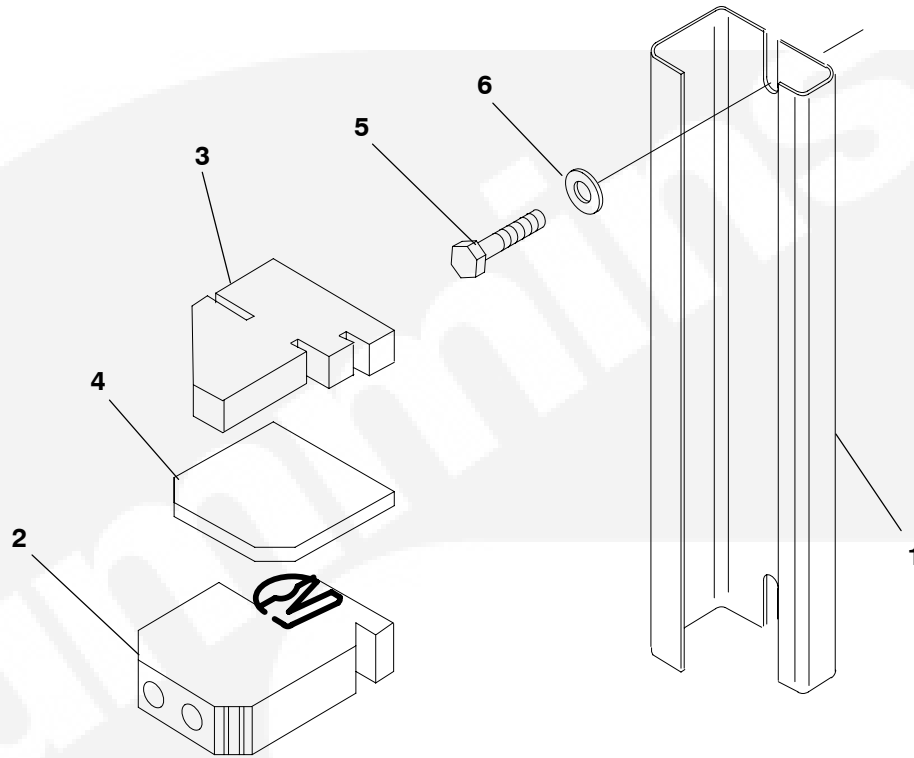
* – Parts Included in 338-3884-02 Wiring Harness

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 –
	307-2874	1	12 VDC				Phillips – GND (M14 x 10)
			24 VDC	5	526-0003	2	Washer, Flat

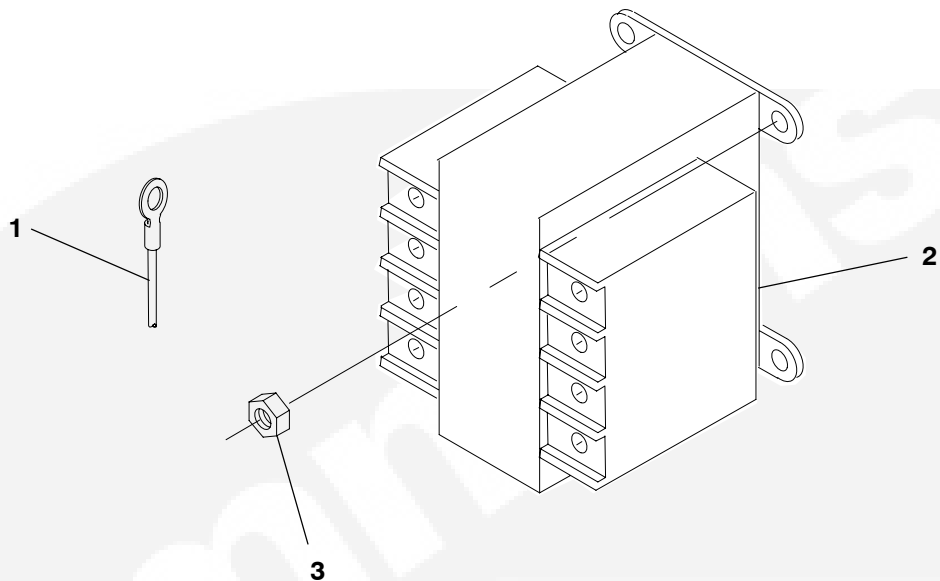
Terminal Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal Block
2	332-2836-02	3	Block, Terminal (Sectional)
3	332-2839	2	Bracket, End – Terminal
4	332-2841	1	Plate, End – Terminal

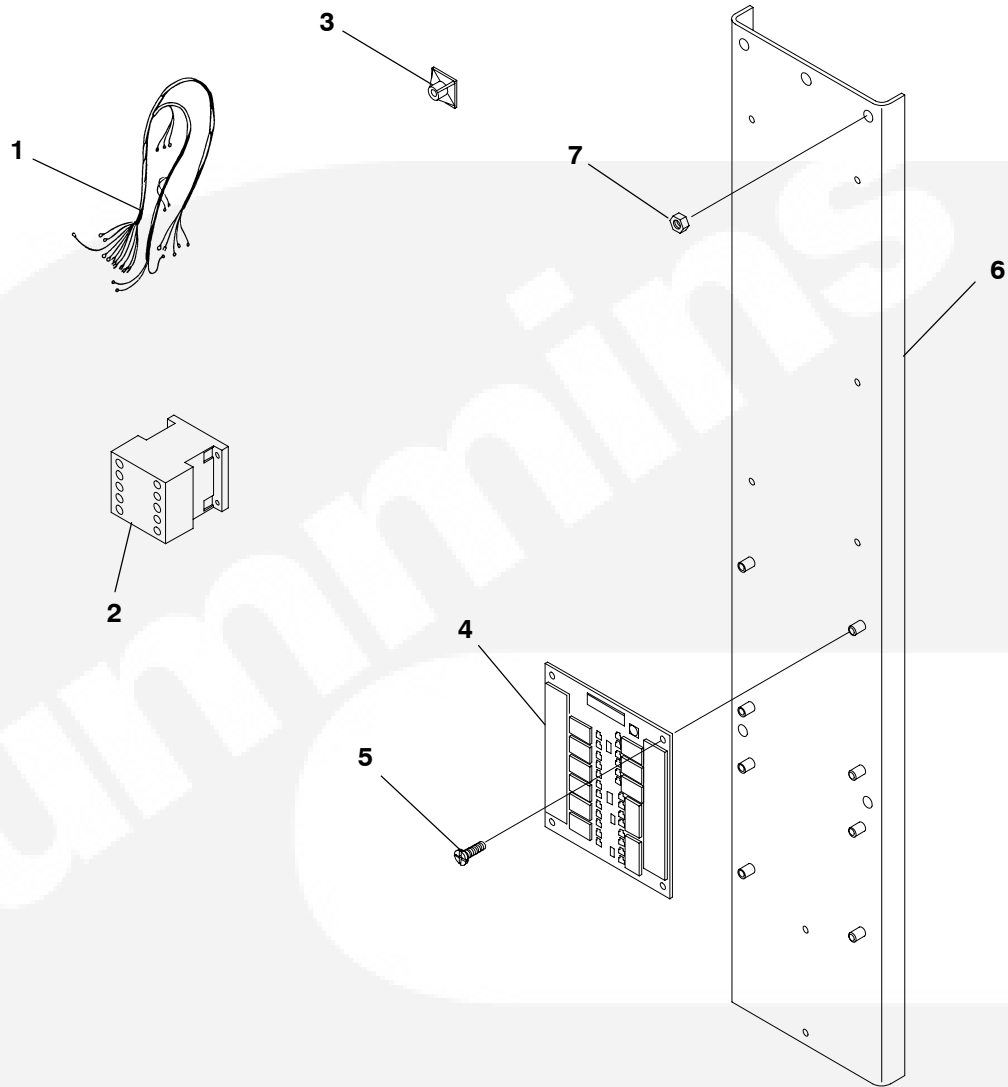
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	815-0955-03	2	Screw, Cap – Hex Head – Phillips – GND (M14 x 10)
6	526-0003	2	Washer, Flat

600 Volt Assembly



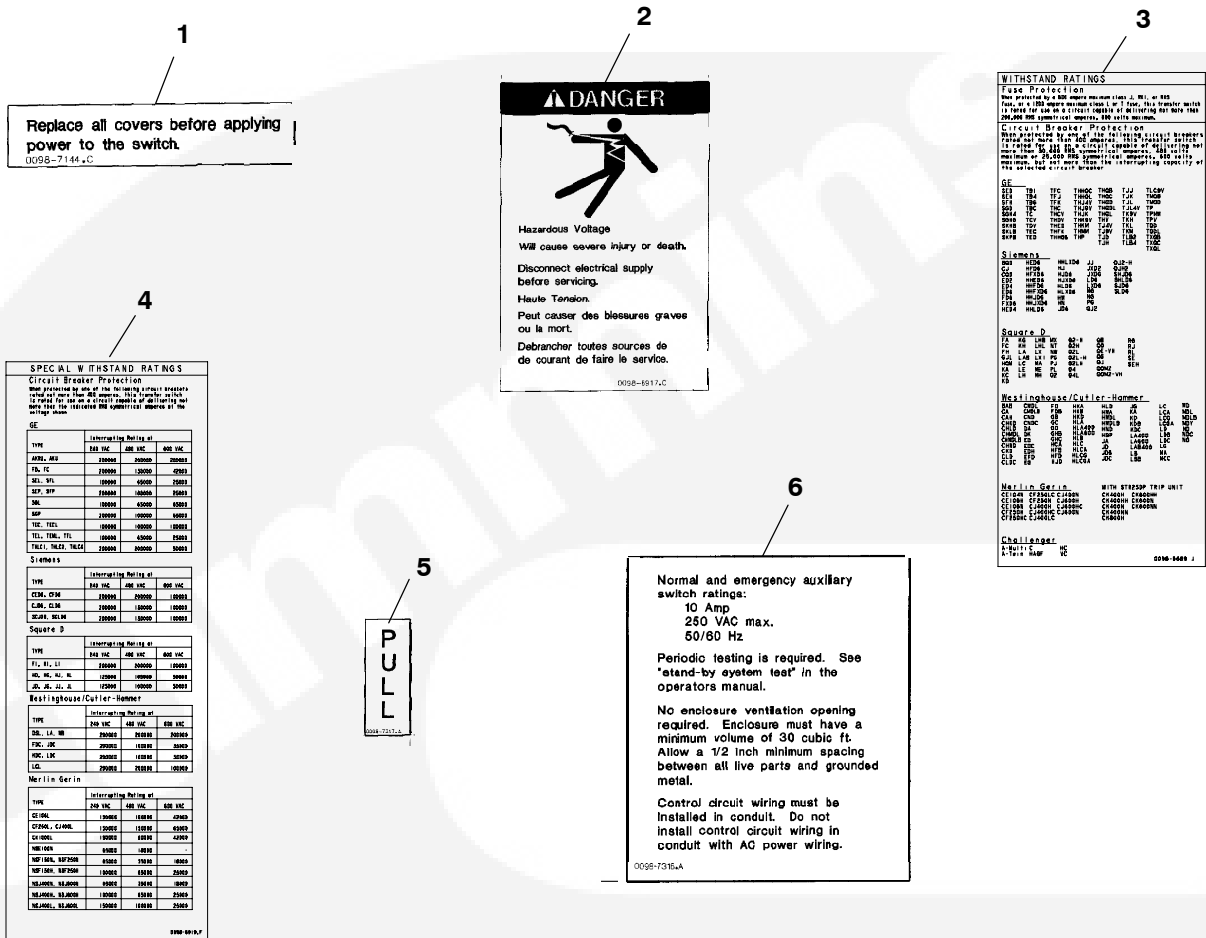
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Lead	2	315-0661	1	Transformer, Power
	226-4809-01	1	6.5" Long – Marked K2-5, K1-5	3	870-0212	4	Nut, Self-Locking (1/4-20)
	226-4809-02	1	6.5" Long – Marked K2-3, K1-3				
	226-4809-03	1	32.00" Long – Marked K6-3, 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	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3903	1	Harness, Load Shed	5	815-0959-03	4	Screw, Pan Head – Cross Recessed (M3 x 8)
2	307-2875	1	Relay, Control	6	319-3943-01	1	Plate, Mounting
3	332-2420	2	Mount, Cable Tie	7	870-0212	4	Nut, Self-Locking (1/4-20)
4	300-5152	1	Board, Printed Circuit – Relay Module				

Labels



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-7144	A/R	Label, Replace Cover	4	098-6919	A/R	Label, Special Breaker
2	098-6917	A/R	Label, Danger	5	098-7317	A/R	Label, Pull
3	098-6889	A/R	Label, WithStand Ratings	6	098-7316	A/R	Label, Aux Switch

Numerical Index

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