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McGRAW-EDISON

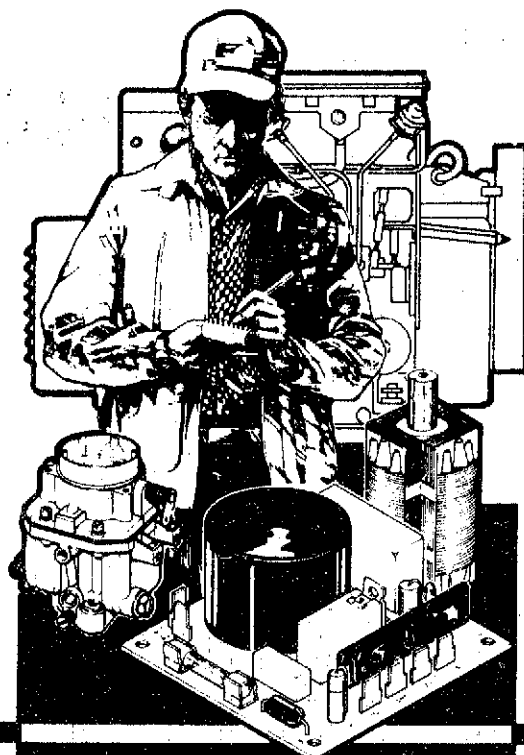
Onan

Parts Manual

OT

1000 Amp

Transfer Switch

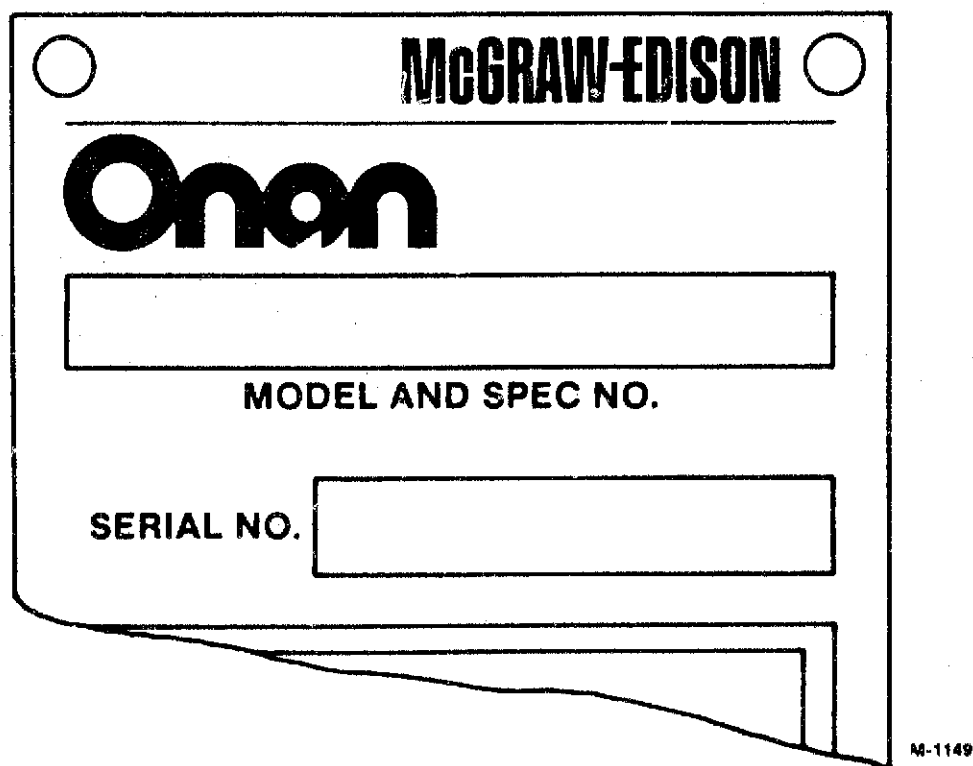


Onan Service Parts

GENERAL INFORMATION

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Near Authorized Onan Parts and Service Center.

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



The form is a rectangular label with a black border. At the top, it features the McGraw-Edison logo in a bold, sans-serif font, flanked by two small circles. Below the logo is the Onan logo in a stylized, bold font. Underneath the Onan logo is a large rectangular box for the MODEL AND SPEC NO. Below this box is a smaller rectangular box for the SERIAL NO. The bottom right corner of the form is torn, revealing a stack of similar forms. The text 'M-1149' is printed in the bottom right corner of the form.

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

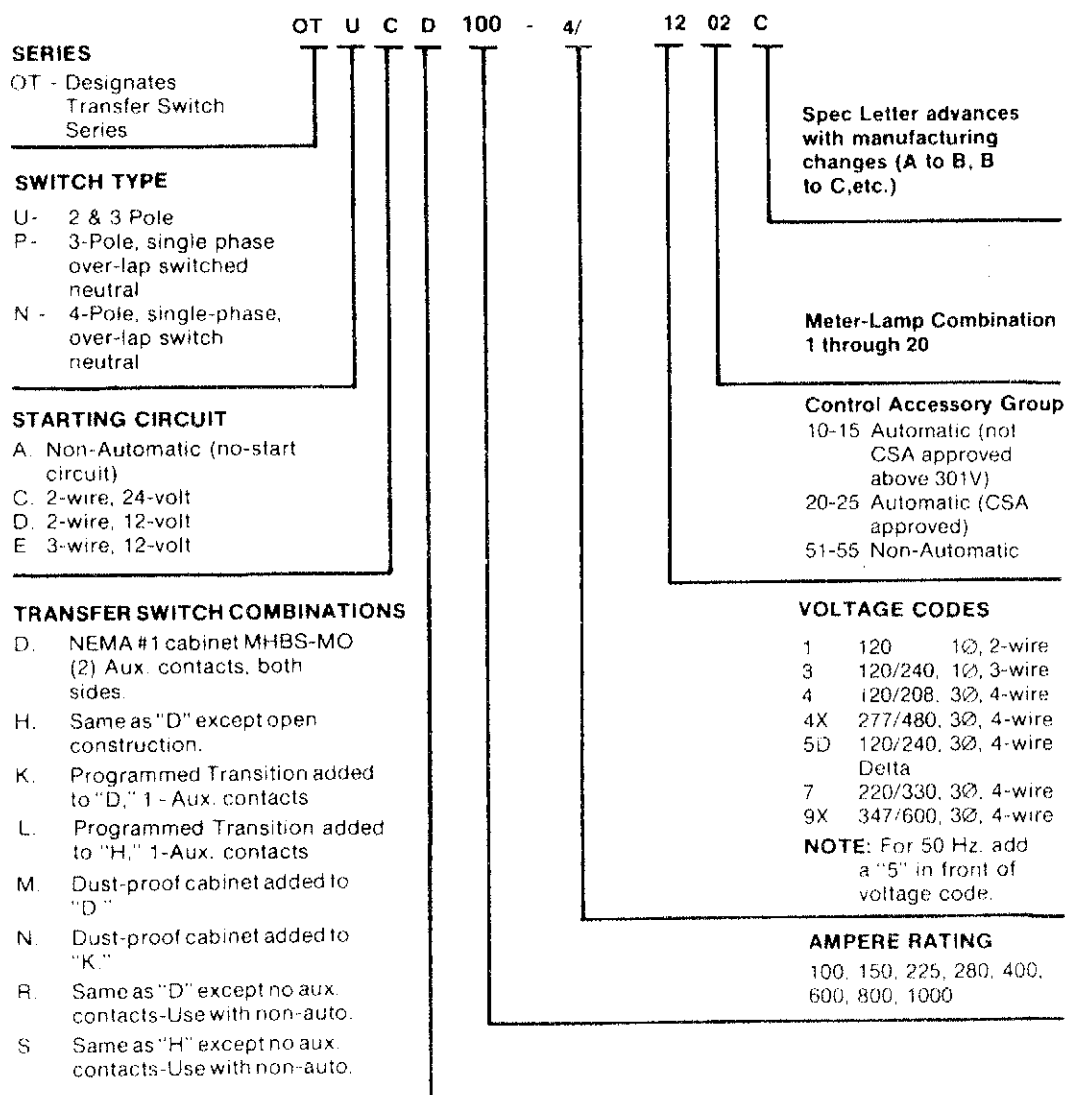
For handy reference, insert "YOUR" nameplate information in the spaces above.

INDEX

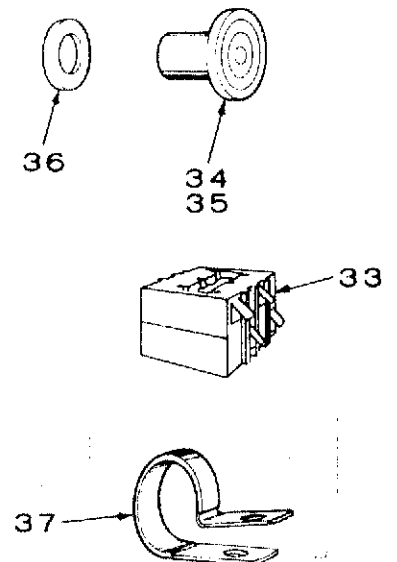
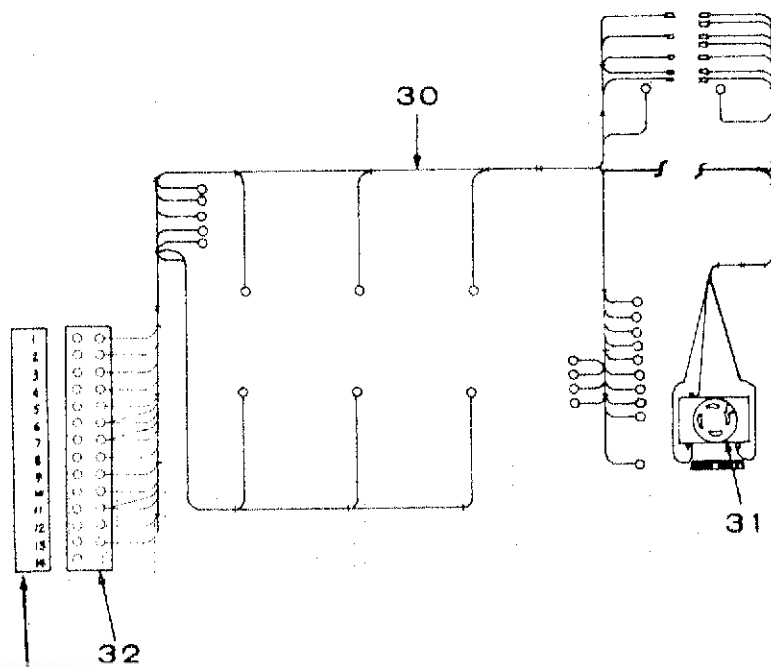
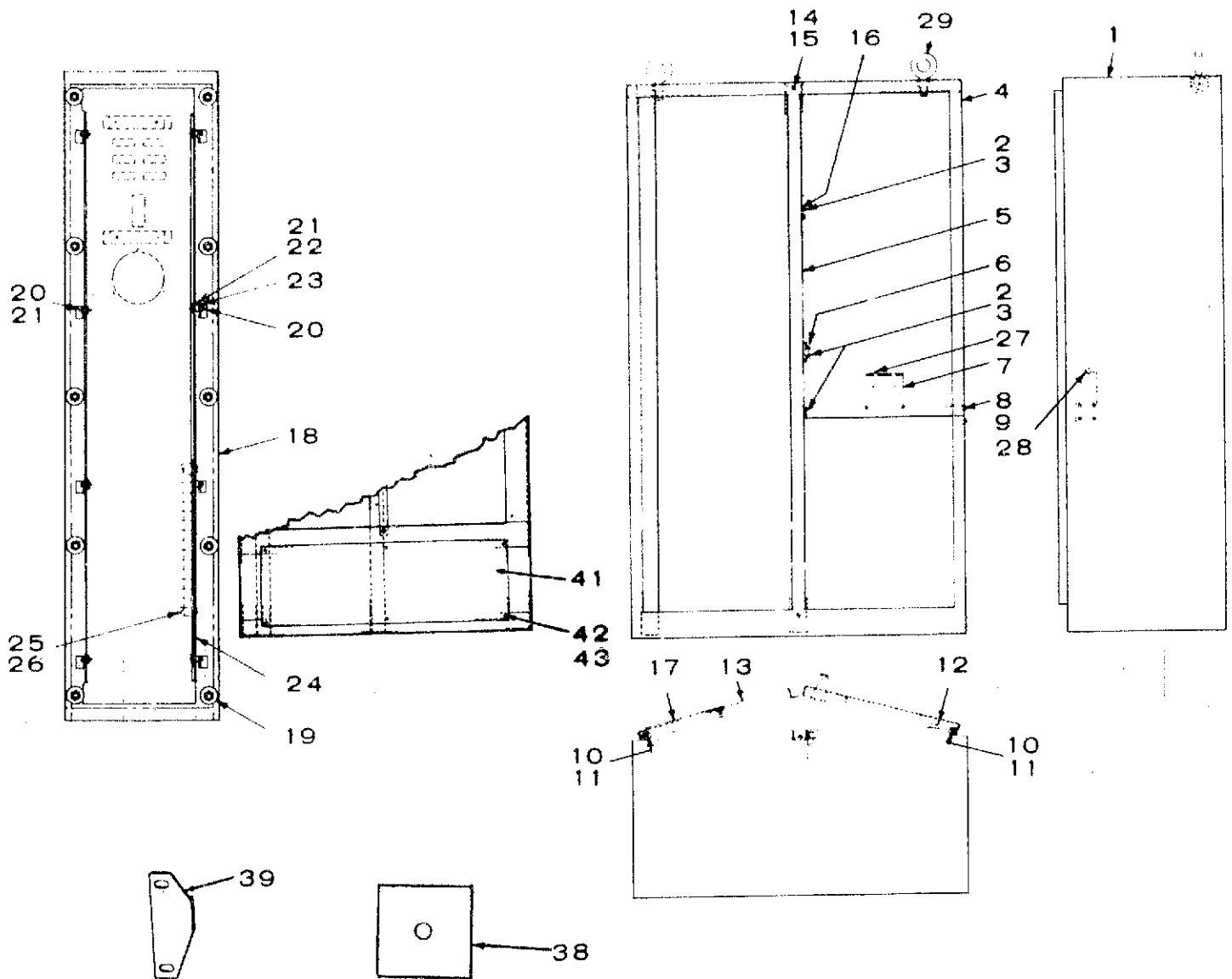
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This catalog applies to the OT Transfer Switches as indicated below. Parts are arranged in sections. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the MODEL and SPEC NO. from the switch box nameplate select the parts that apply to your transfer switch. Unless otherwise mentioned in the description, parts are interchangeable between models. Throughout this catalog, front of transfer switch is the door side. Right and left sides are determined by facing the cabinet doors.

MODEL IDENTIFICATION



CABINET ASSEMBLY (AUTOMATIC) TRANSFER SWITCH COMBINATIONS D, K



CABINET ASSEMBLY (AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,K

OT ☐ ☐ - ☐ / ☐ ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CABINET ASSEMBLY CONTROL			27	323-1129	1	‡*Guard Receptacle
	301-4823	1	2 and 3 Pole Transfer Switch (Includes Parts Marked *)	28	518-0402	2	‡*Clip, Speed
	301-5134	1	4 Pole Transfer Switch (Includes Parts Marked ‡)	29	403-0931	2	‡*Bolt, Eye - Lifting
2	813-0096	6	‡*Screw, Machine - Round Head (#10-32 x 1/4")	30	HARNESS, WIRING (Includes Parts Marked £)		
3	853-0008	6	‡*Washer, Lock - ET (#10)	338-1060	1	1 Phase Units (2 and 3 Pole) 3 Phase Units	
4	301-4510	1	‡*Box, Control	338-1060	1	Voltage Codes 4, 5D, 4X, 54 55D, 54X (2 and 3 Pole)	
5	301-4503	1	‡*Support, Control Box Center	338-1260	1	Voltage Codes 4, 5D, 4X, 54, 55D, 54X (4 Pole)	
6	406-0420	1	‡*Strike, Latch	338-1098	1	Voltage Codes 7, 57 (2 and 3 Pole)	
7	301-4745	1	Bracket, Disconnect Plug	338-1270	1	Voltage Codes 9X, 59X (2 and 3 Pole)	
8	813-0009	4	‡*Screw, Machine - Round Head (#10-32 x 7/16")	31	323-0900	1	£Receptacle, Twistlock
9	854-0010	4	‡*Washer, Lock - IT (#10)	32	332-1697	1	£Block, Terminal
10	860-0008	12	‡*Nut, Hex (#8-32)	33	RELAY, INTERPOSING		
11	853-0005	12	‡*Washer, Lock - ET (#8)		307-1545	1	3,4,5D,53,54,55D
12	DOOR, RIGHT HAND				307-1546	1	4X, 54X
	301-4583	1	*2 and 3 Pole Transfer Switch	34	406-0363	2	Pin, Hinge
	301-5133	1	‡4 Pole	35	406-0370	1	Pin, Latch
13	301-4499	1	‡*Door, Left Hand	36	508-0177	1	Washer, Nylon
14	812-0148	2	‡*Screw, Machine - Round Head (1/4-20 x 1/2")	37	CLAMP, LOOP		
15	854-0014	8	*Washer, Lock - IT (1/4")		332-1356	2	3/4" Diameter
16	301-4578	1	‡*Bracket, Swinging Panel		332-1414	6	5/16" Diameter
17	300-1138	1	‡*Mounting Package - Meter Panel (Includes Parts Marked Δ)		332-0050	6	1/2" Diameter
18	301-3895	1	‡*ΔPlate, Meter Panel Mounting	38	306-1380	2	Spacer, Mounting - 4 Pole Transfer Switches
19	870-0299	10	‡*ΔNut, Hex - Swivel Washer (1/4-20)	39	301-3524	1	Plate, Striker - 4 Pole Transfer Switches
20	812-0079	8	‡*ΔScrew, Machine - Round Head (#8-32 x 1/2")	40	332-1698	1	Strip, Marker (1 thru 14)
21	856-0002	8	‡*ΔWasher, Lock - EIT (#8)	41	301-4506	1	Panel, Front
22	860-0008	2	‡*ΔNut, Hex (#8-32)	42	812-0150	4	Screw, Machine - RH (1/4-20 x 5/8")
23	150-0302	4	‡*ΔSpacer	43	854-0014	8	Washer, Lock - IT (1/4")
24	301-5382	1	‡ΔBracket, Terminal Block				
25	812-0066	2	‡ΔScrew, Machine - Round Head (#6-32 x 3/4")				
26	856-0001	2	‡*ΔWasher, Lock - EIT (#6)				

* - Parts included in 301-4823 Cabinet Assembly.
‡ - Parts included in 301-5134 Cabinet Assembly.
Δ - Parts included in 300-1138 Mounting Package.
£ - Parts included in Wiring Harness Assemblies
338-1060, 338-1098, 338-1270 and 338-1260.

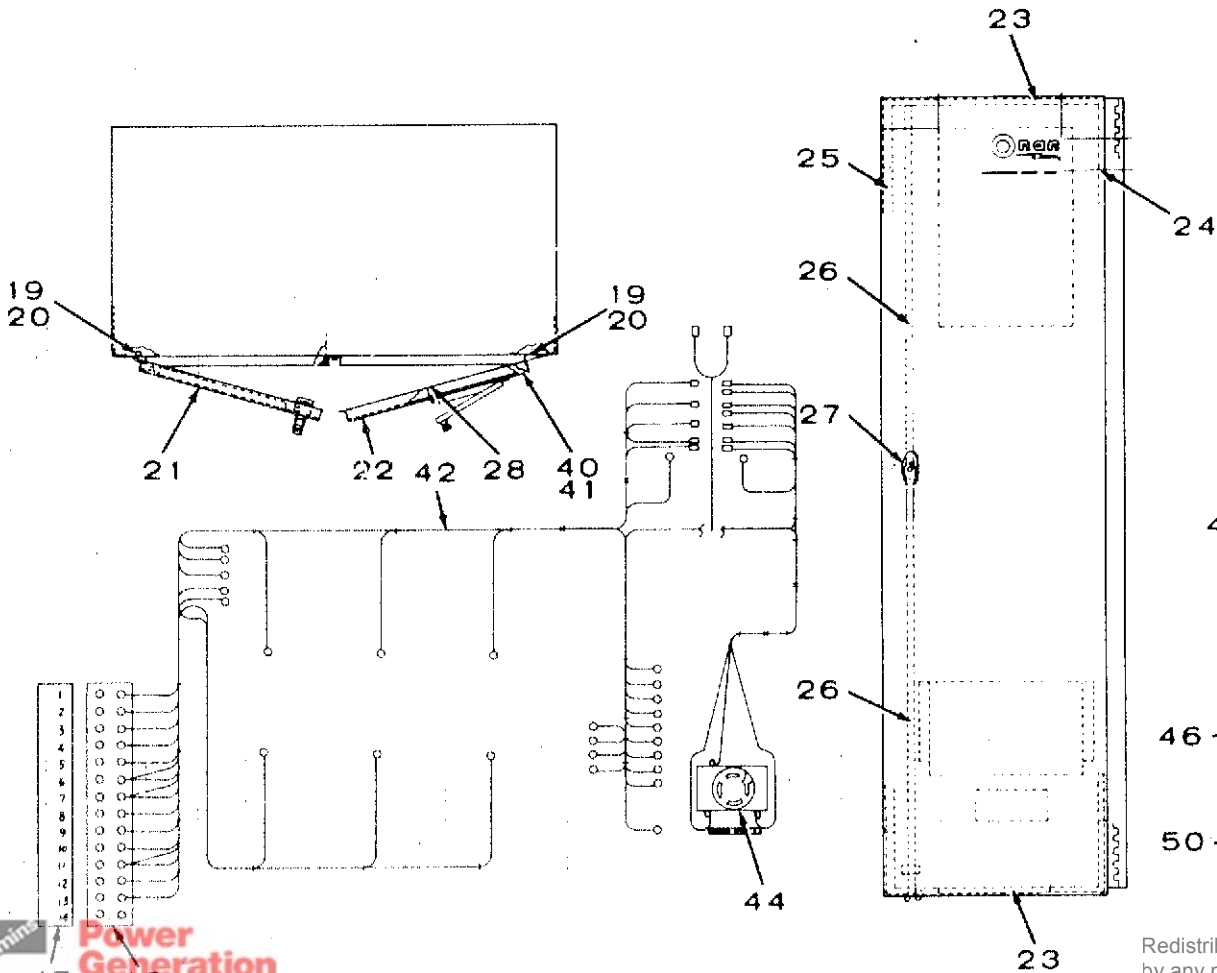
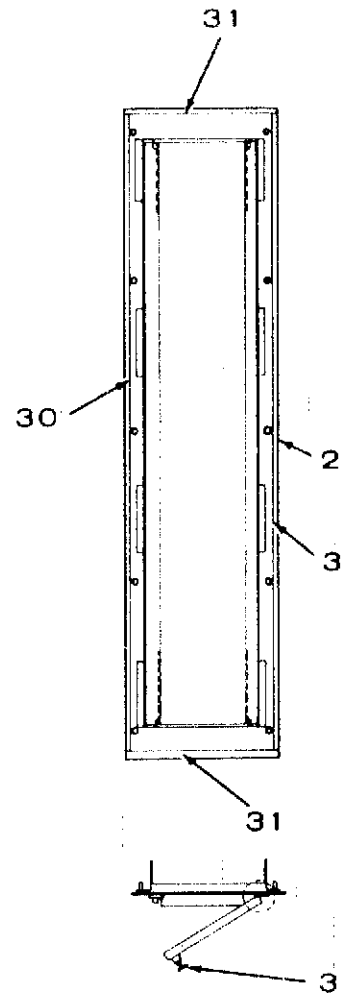
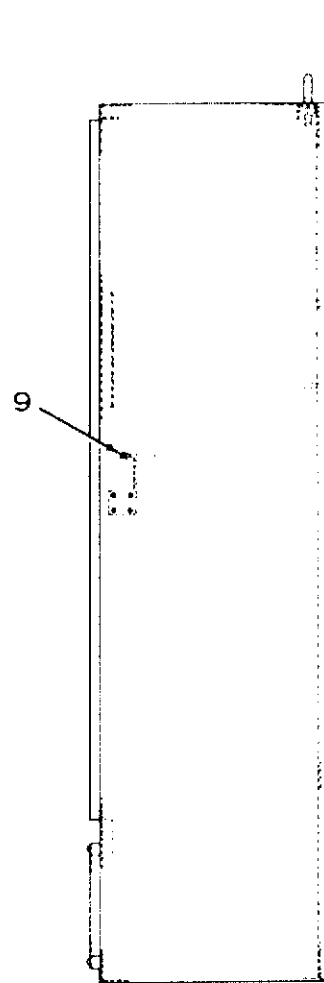
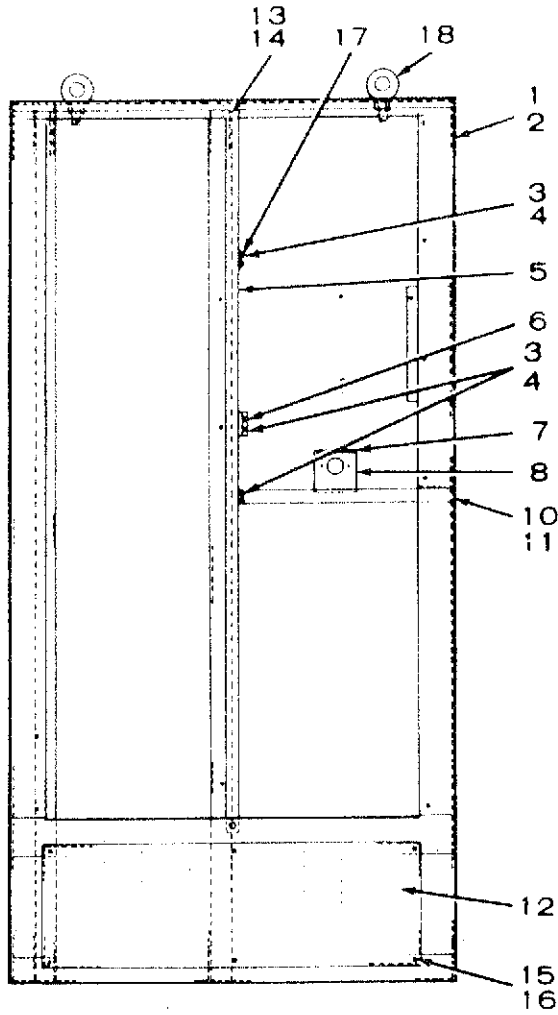
* - Parts included in 301-4823 Cabinet Assembly.

‡ - Parts included in 301-5134 Cabinet Assembly.

Δ - Parts included in 300-1138 Mounting Package.

£ - Parts included in Wiring Harness Assemblies
338-1060, 338-1098, 338-1270 and 338-1260.

CABINET ASSEMBLY, DUST PROOF (AUTOMATIC) TRANSFER SWITCH COMBINATIONS M,N



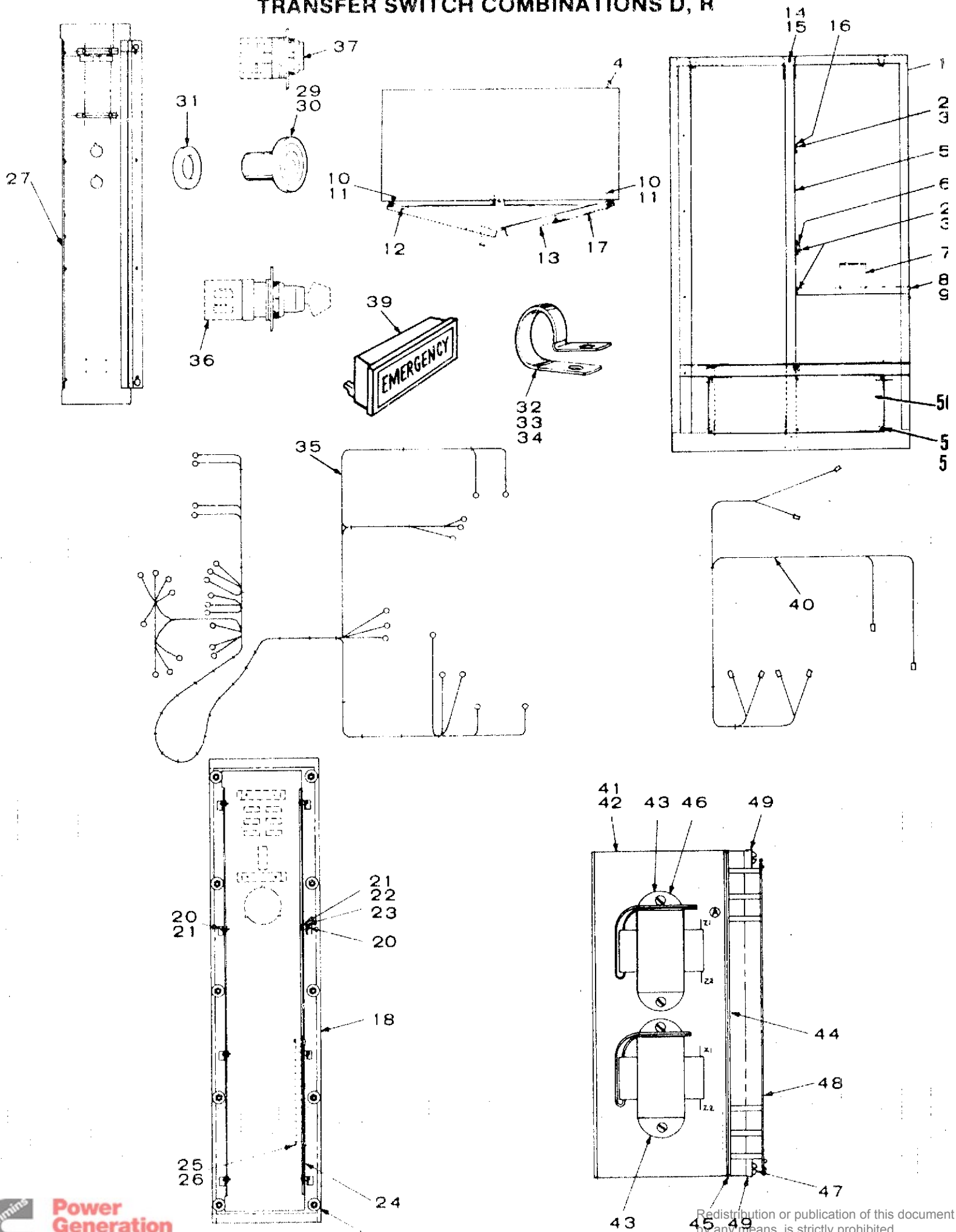
CABINET ASSEMBLY, DUST PROOF (AUTOMATIC) TRANSFER SWITCH COMBINATIONS M,N

OT ☐ - ☐ / ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-5308	1	Cabinet Assembly, Control (Includes Parts Marked *)	28	301-5445	1	*Mounting Assembly, Meter Panel (Includes Parts Marked •)
2	301-5306	1	*Box, Control	29	301-5624	1	*Door and Plate Assembly
3	813-0096	6	*Screw, Machine - Round Head (#10-32 x 1/2")	30	895-0202	2	*Strip, Weather
4	853-0008	6	*Washer, Lock - ET (#10)	31	895-0200	2	*Strip, Weather (9" of 3/16 x 3/8")
5	301-4503	1	*Support, Control Box Center	32	895-0198	2	*Strip, Weather (32.5" of 1/8 x 1/4")
6	406-0468	1	*Strike, Latch	33	895-0197	2	*Strip, Weather (4" of 1/8 x 1/4")
7	323-1129	1	*Guard, Receptacle	34	895-0201	2	*Strip, Weather (33.75" of 3/16 x 3/8")
8	301-4338	1	*Bracket, Disconnect Plug	35	895-0199	2	*Strip, Weather (5.65" of 3/16 x 3/8")
9	518-0402	2	*Clip, Speed	36	406-0425	3	*Screw, Panel Latch
10	813-0009	4	*Screw, Machine - Round Head (#10-32 x 7/16")	37	301-5062	1	*Window, Display
11	854-0010	4	*Washer, Lock - IT (#8)	38	860-0008	18	*Nut, Hex (#8-32)
12	301-5047	1	*Panel Assembly, Front - 4 Pole Transfer Switches	39	526-0003	18	*Washer, Flat (11/64" ID x 3/8" OD x 1/32" Thk)
13	812-0148	2	*Screw, Machine - Round Head (1/4-20 x 1/2")	40	526-0015	6	*Washer, Flat (9/32" ID x 9/16" OD x 1/16" Thk)
14	854-0014	2	*Washer, Lock - IT (1/4")	41	862-0001	6	*Nut, Hex (1/4-20)
15	812-0150	4	*Screw, Machine - Round Head (1/4-20 x 5/8") - 4 Pole Transfer Switches	42	HARNES, WIRING (INCLUDES PARTS MARKED £)		
16	854-0014	8	*Washer, Lock - IT (1/4") - 4 Pole Transfer Switches		338-1060	1	2 and 3 Pole Transfer Switches
17	301-4578	1	*Bracket, Swinging Panel		338-1260	1	4 Pole Transfer Switches
18	403-0931	2	*Eye Bolt, Lifting	43	332-1697	1	£Block, Terminal (14-Place)
19	860-0008	12	*Nut, Hex (#8-32)	44	323-0900	1	£Receptacle, Twistlock
20	853-0005	12	*Washer, Lock - ET (#8)	45	332-1698	1	Strip, Marker (1 thru 14)
21	301-5304	1	*Door, Right Side (Includes Parts Marked ▲)	46	RELAY, INTERPOSSING		
22	301-5302	1	*Door, Left Side (Includes Parts Marked †)		307-1545	1	3,4,5D,53,54,55D
23	895-0183	4	*▲†Strip, Weather (15.31" of 1/4 x 1/2")		307-1546	1	4X, 54X
24	895-0184	2	*▲†Strip, Weather (56.06" of 1/4 x 1/2")	47	406-0363	2	Pin, Hinge
25	895-0187	2	*▲†Strip, Weather (56.06" of 1/4 x 3/4")	48	406-0370	1	Pin, Latch
26	406-0454	2	*▲Bar, Latching	49	508-0177	1	Washer, Nylon
27	406-0253	1	*▲Handle, Lock (With Latch)	50	CLAMP, LOOP		
					332-1356	2	3/4" Diameter
					332-1414	6	5/16" Diameter
					332-0050	6	1/2" Diameter

- * - Parts included in 301-5308 Complete Cabinet Assembly.
- ▲ - Parts included in 301-5304 Right Door Assembly.
- † - Parts included in 301-5302 Left Door Assembly.
- - Parts included in 301-5445 Mounting Assembly.
- £ - Parts included in the Wiring Harness.

CABINET ASSEMBLY (NON-AUTOMATIC) TRANSFER SWITCH COMBINATIONS D, R



CABINET ASSEMBLY (NON-AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,R

OT _ _ ☐ _ - _ / _ _ _

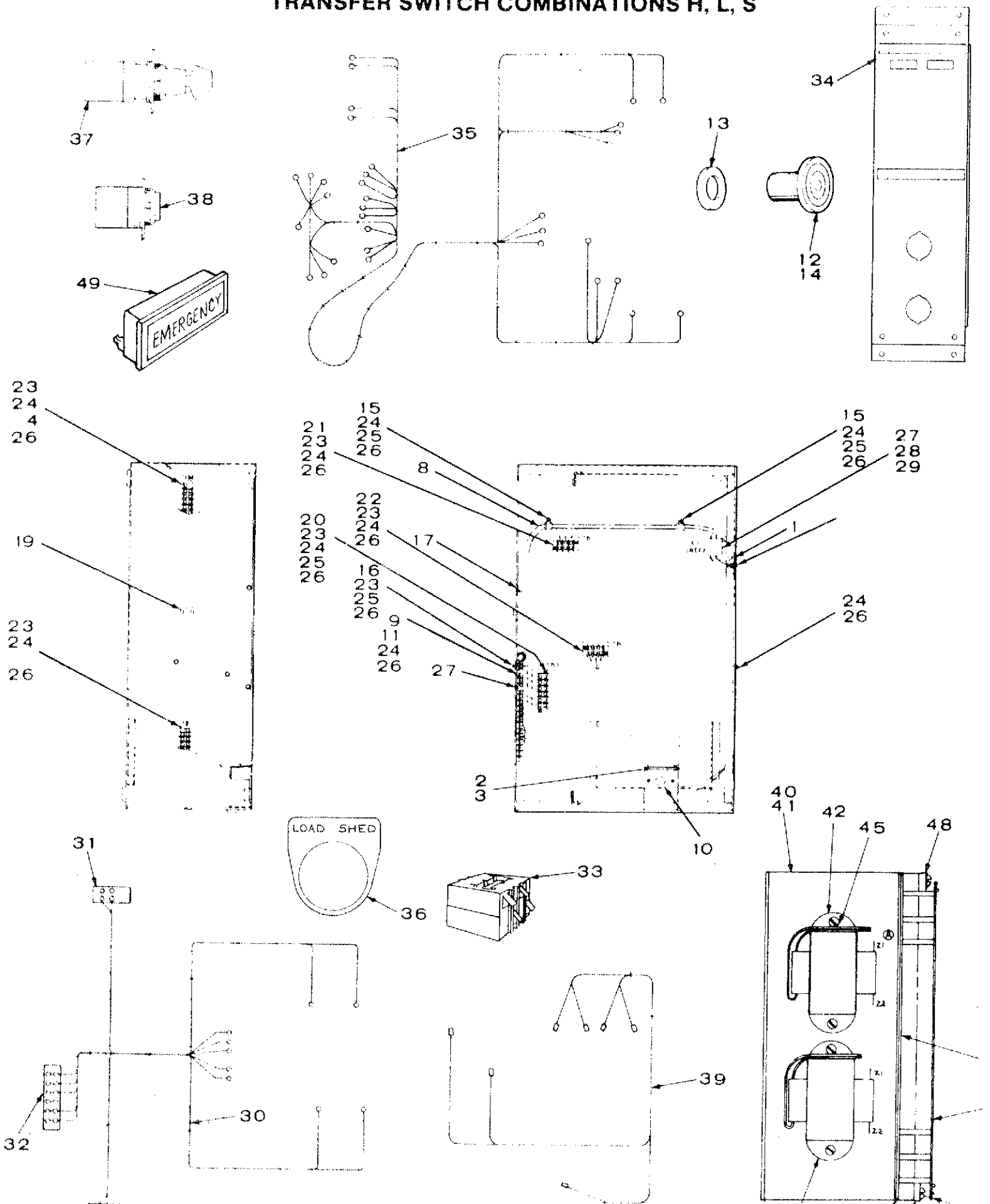
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4872	1	Cabinet Assembly, Control (Includes Parts Marked *)	29	406-0363	2	Pin, Hinge
2	813-0096	6	*Screw, Machine - Round Head (#10-32 x 1/4")	30	406-0370	1	Pin, Latch
3	853-0008	6	*Washer, Lock - ET (#10)	31	508-0177	2	Washer, Nylon
4	301-4510	1	*Box, Control	32	332-1356	2	Clamp, Loop
5	301-4503	1	*Support, Control Box Center	33	332-1414	6	Clamp, Loop
6	406-0420	1	*Strike, Latch	34	332-0050	1	Clamp, Loop
7	301-4745	1	*Bracket, Disconnect Plug	35	HARNESS, WIRING		
8	813-0009	4	*Screw, Machine - Round Head (#10-32 x 7/16")		338-1253	1	Transfer Switch Combination D
9	854-0010	4	*Washer, Lock - IT (#10)		338-1255	1	Transfer Switch Combination R
10	860-0008	12	*Nut, Hex (#8-32)	36	308-0481	1	Switch, Selector (Key)
11	853-0005	12	*Washer, Lock - ET (#8)	37	308-0480	1	Switch, Push Button
12	301-4870	1	*Door, Right Hand	39	LAMP, INDICATOR		
13	301-4499	1	*Door, Left Hand		322-0146	1	Normal
14	812-0148	2	*Screw, Machine - Round Head (1/4-20 x 1/2")		332-0147	1	Emergency
15	854-0014	2	*Washer, Lock - IT (1/4")	40	338-1258	1	Harness, Wiring - Lights
16	301-4578	1	*Bracket, Swinging Panel	41	315-0374	1	Transformer Assembly - Stepdown (Includes Parts Marked †)
17	300-1138	1	*Mounting Package - Meter Panel (Includes Parts Marked Δ)	42	301-3499	1	†Bracket, Transformer Mounting
18	301-3895	1	*ΔPlate, Meter Panel Mounting	43	315-0375	2	†Transformer, Stepdown
19	870-0299	10	*ΔNut, Hex - Swivel Washer (1/4-20)	44	332-1468	1	†Block, Terminal
20	812-0079	8	*ΔScrew, Machine - Round Head (#8-32 x 1/2")	45	332-1663	1	†Strip, Marker
21	856-0002	8	*ΔWasher, Lock - EIT (#8)	46	815-0387	4	†Screw, Machine - Round Head (#6-32 x 1/4")
22	860-0008	2	*ΔNut, Hex (#8-32)	47	812-0066	2	†Screw, Machine - Round Head (#6-32 x 3/4")
23	150-0302	4	*ΔSpacer	48	332-1651	1	†Cover, Protection
24	301-5382	1	*ΔBracket, Terminal Block	49	508-0074	2	†Washer, Insulator
25	812-0066	2	*ΔScrew, Machine - Round Head (#6-32 x 3/4")	50	301-4506	1	Panel, Front
26	856-0001	2	*ΔWasher, Lock - EIT (#6)	51	812-0150	4	Screw, Machine - Round Head (1/4-20 x 5/8")
27	301-4861	1	Panel, Meter	52	854-0014	8	Washer, Lock - IT (1/4")

* - Parts included in 301-4872 Cabinet Assembly.

Δ - Parts included in 300-1138 Mounting Package.

† - Parts included in 315-0374 Transformer Assembly.

CABINET ASSEMBLY **(OPEN CONSTRUCTION - AUTOMATIC AND NON AUTOMATIC)** **TRANSFER SWITCH COMBINATIONS H, L, S**



CABINET ASSEMBLY (OPEN CONSTRUCTION - AUTOMATIC AND NON AUTOMATIC) TRANSFER SWITCH COMBINATIONS H,L,S

OT _ _ ☐ _ - ☐ / _ _ _

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	301-4848	1	Cabinet Assembly (Automatic) (Includes Parts Marked *)
1	301-4847	1	*Box, Control
2	323-1129	1	*Guard, Receptacle (Automatic)
3	518-0402	2	*Clip, Guard (Automatic)
4	332-1469	1	*Strip, Marker (Automatic)
5	332-1699	1	*Strip, Marker (Automatic)
6	871-0007	2	*Nut, Hex (#8-32) - Brass (Automatic)
7	526-0062	2	*Washer, Flat - Brass (.200" ID x 1/2" OD x 1/16") (Automatic)
8	338-1049	1	*Harness, Wiring (Includes Parts Marked †) (Automatic)
9	332-1697	1	*†Block, Terminal (14 Place) (Automatic)
10	323-0900	1	*†Receptacle, Twistlock (Automatic)
11	332-1698	1	*Strip, Marker (Automatic)
12	406-0363	2	*Pin, Hinge (Automatic)
13	508-0177	1	*Washer, Nylon (Automatic)
14	406-0370	1	*Pin, Latch (Automatic)
15	332-1356	2	*Clamp, Loop (3/4" Dia.) (Automatic)
16	332-1024	2	*Clamp, Loop (5/16" Dia.) (Automatic)
17	332-0050	2	*Clamp, Loop (1/2" Dia.) (Automatic)
18	810-0081	1	*Screw, Machine - Round Head Brass (#8-32 x 5/8") (Automatic)
19	508-0144	1	*Grommet, Rubber (Automatic)
20	332-2203	1	*Strip, Marker (Automatic)
21	332-2205	1	*Strip, Marker (Automatic)
22	332-2204	1	*Strip, Marker (Automatic)
23	812-0084	12	*Screw, Machine - Round Head (#8-32 x 1") (Automatic)
24	853-0005	16	*Washer, Lock - ET (#8) (Automatic)
25	812-0077	4	*Screw, Machine - Round Head (#8-32 x 3/8") (Automatic)
26	860-0008	16	*Nut, Hex (#8-32) (Automatic)
27	812-0061	2	*Screw, Machine - Round Head (#6-32 x 3/8") (Automatic)
28	526-0048	2	*Washer, Flat - Brass (.172" ID x 3/8" OD x 1/32" Thk) (Automatic)
29	860-0006	2	*Nut, Hex (#6-32) (Automatic)
30	HARNESS, WIRING - INTER CONNECTION (Includes Parts Marked £) (Automatic)		
	338-1226	1	Voltage Codes 3,53
	338-1227	1	Voltage Codes 4,5D,4X,54,55D 54X

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
31	332-2206	2	£Block, Terminal (3 Place) - Voltage Codes 3,4,5D,4X 53,54,55D,54X (Automatic)
32	332-1541	1	£Block, Terminal (6 Place) - Voltage Codes 3,4,5D,4X,53 54,55D,54X) (Automatic)
33	RELAY, INTERPOSING - (Automatic)		
	307-1545	1	3,4,5D,53,54,55D
	307-1546	1	4X, 54X
34	301-4863	1	Panel, Meter (Non-Automatic)
35	HARNESS, WIRING (Non-Automatic)		
	338-1254	1	Transfer Switch Combinations H
	338-1256	1	Transfer Switch Combinations S
36	PLATE, LEGEND - TRANSFER SWITCH COMBINATIONS H,L,S, (Non-Automatic)		
	308-0485	1	Load Shed
	308-0486	1	Normal - Off-Emergency
37	308-0481	1	Switch, Selector (Key) (Non-Automatic)
39	338-1258	1	Harness, Wiring - Lights (Non-Automatic)
40	315-0374	1	Transformer Assembly - Stepdown (Includes Parts Marked Δ) (Non-Automatic)
41	301-3499	1	ΔBracket, Transformer Mounting (Non-Automatic)
42	315-0375	2	ΔTransformer, Stepdown (Non-Automatic)
43	332-1468	1	ΔBlock, Terminal (Non-Automatic)
44	332-1663	1	ΔStrip, Marker (Non-Automatic)
45	815-0387	4	ΔScrew, Machine - Round Head (#6-32 x 1/4") (Non-Automatic)
46	812-0066	2	ΔScrew, Machine - Round Head (#6-32 x 3/4") (Non-Automatic)
47	332-1651	1	ΔCover, Protection (Non-Automatic)
48	508-0074	2	ΔWasher, Insulator (Non-Automatic)
49	LAMP, INDICATOR (Non-Automatic)		
	332-0146	1	Normal
	332-0147	1	Emergency

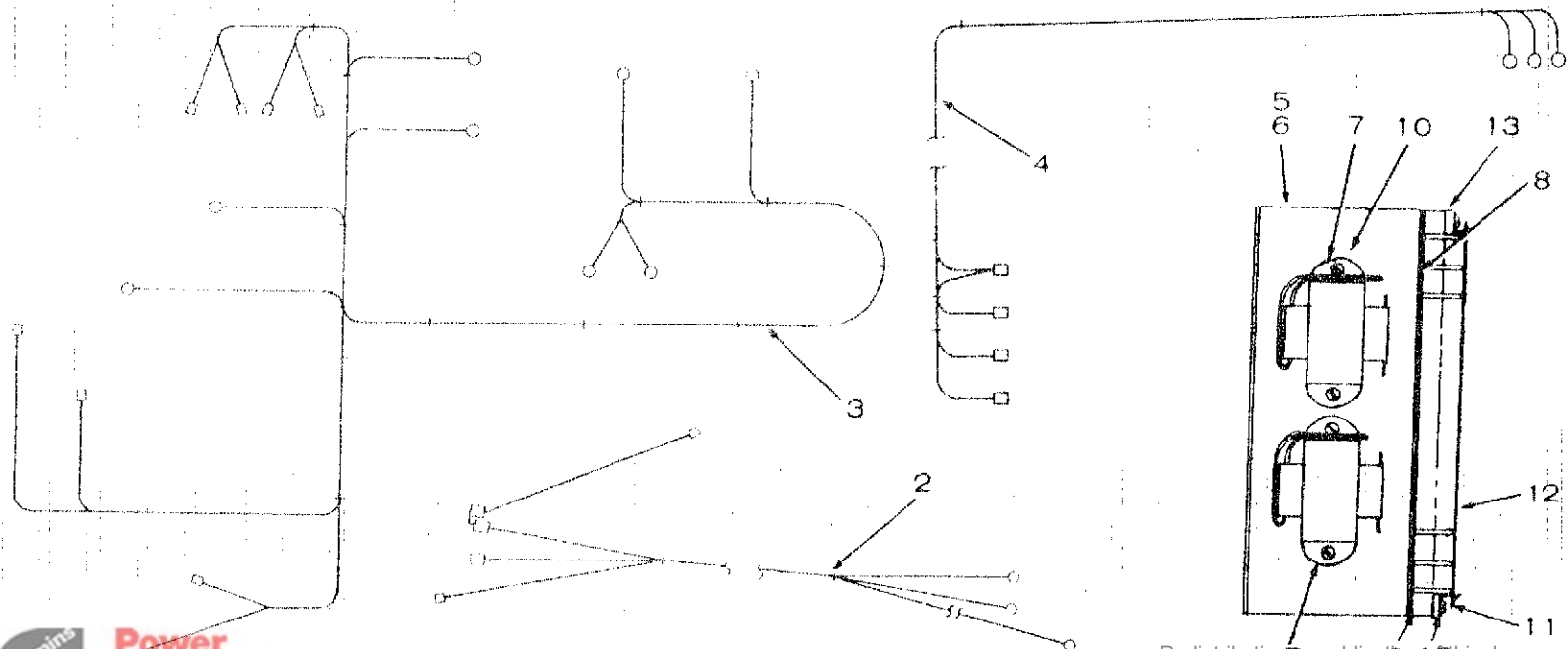
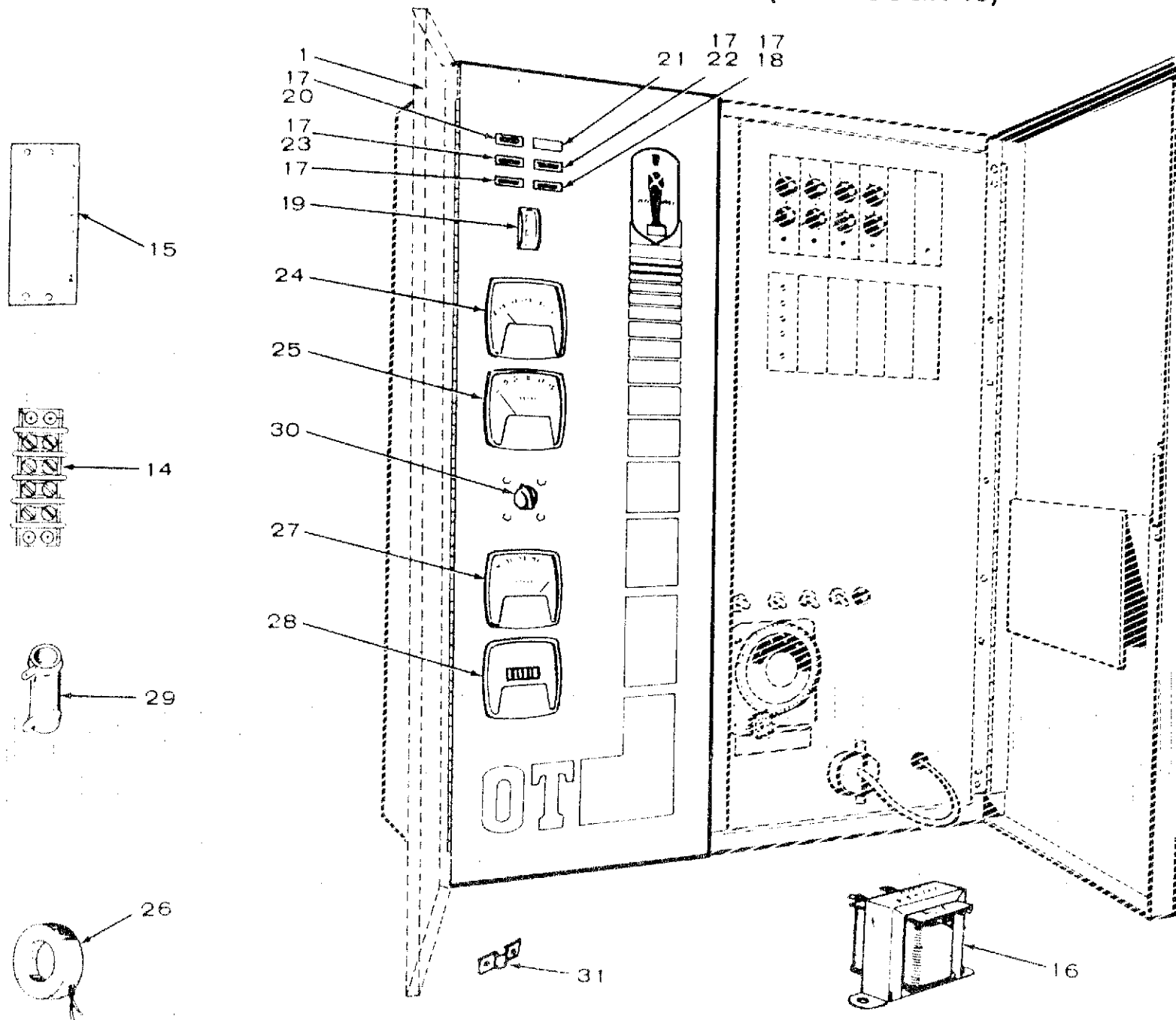
* - Parts included in 301-4848 Cabinet Assembly.

† - Parts included in 338-1049 Wiring Harness.

£ - Parts included in 338-1226 and 338-1227 Inter Connection
Wiring Harness.

Δ - Parts included in 315-0374 Transformer Assembly.

METER-LAMP COMBINATION PANELS (1 THROUGH 18)



METER-LAMP COMBINATION PANELS (1 THROUGH 18)

OT ☐ ☐ ☐ - ☐ / ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL, METER						
	301-4117	1	With Holes for 3 Lamps - Panel Combinations 17,18	10	815-0387	4	*Screw, Machine - Pan Head (#6-32 x 1/4") - Panel Combinations 2,4,6,8,10,12,14,16,18
	301-3504	1	With Holes for 6 Lamps and Ammeter - Panel Combinations 1,2,3,4	12	332-1651	-1	*Cover, Protection - Panel Combinations 2,4,6,8,10,12,14,16,18
	301-3505	1	With Holes for 6 Lamps, DC Ammeter and AC Voltmeter - Panel Combinations 5,6,7,8,13,14,15,16	13	508-0074	2	*Washer, Insulating - Panel Combinations 2,4,6,8,10,12,14,16,18
	301-3506	1	With Holes for 6 Lamps, DC Ammeter, AC Voltmeter and Selector Switch - Panel Combinations 5,6,7,8,13,14,15,16	14	332-0537	1	Block, Terminal (4 Place) - Part of Wiring Harness - Panel Combinations 9,10,11,12
	301-3507	1	With Holes for 6 Lamps, DC Ammeter(2) AC Ammeters, Voltmeter, Frequency Meter, Running Time Meter and Voltage Switch - Panel Combinations 9,10,11,12	15	332-1517	1	Strip, Marker - Panel Combinations 9,10,11,12
	301-3508	1	With Holes for 6 Lamps, DC Ammeter(2) AC Ammeters, Voltmeter, Frequency Meter and Running Time Meter - Panel Combinations 9,10,11,12	16	315-0377	1	Transformer, Step Down - Panel Combinations 9,10,11,12 - Voltage Codes 4X, 9X,54X,59X
2	HARNESS, WIRING - METERS			17	LENS AND BEZEL		
	338-0882	1	Panel Combinations 1,2,3,4		322-0141	1	Panel Combinations 4,8,12,16
		1	Panel Combinations 5,6,7,8		322-0141	2	Panel Combination 17
	338-0883	1	1 Phase Units		322-0141	3	Panel Combinations 2,3,6,7,10,11,14,15
	338-0885	1	3 Phase Units		322-0141	5	Panel Combinations 1,5,9,13
			Panel Combinations 9,10,11,12 (Includes Terminal Block)	18	322-0107	1	Lamp, Indicator - Over Crank
	338-0884	1	1 Phase Units	19	302-0807	1	Ammeter, Charge (DC) - Panel Combinations 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
	338-0886	1	3 Phase Units - Voltage Codes 4,5D,54,55D	20	322-0146	1	Lamp, Indicator - Normal - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-0887	1	3 Phase Units - Voltage Codes 4X,9X,54X,59X	21	322-0147	1	Lamp, Indicator - Emergency - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-1046	1	3 Phase Units - Voltage Codes 7,57	22	LAMP, INDICATOR - LOW BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
			Panel Combinations 13,14,15,16		322-0114	1	Units with 12 Volt Starting Circuit (D and E)
	338-0883	1	1 Phase Units		322-0126	1	Units with 24 Volt Starting Circuit (C)
	338-0883	1	3 Phase Units - Voltage Codes 4,5D,4X,9X,54,55D,54X,59	23	LAMP, INDICATOR - HIGH BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-1257	1	3 Phase Units - Voltage Codes 7,57		322-0115	1	Units with 12 Volt Starting Circuit (D and E)
	338-1201	1	Panel Combinations 17,18		322-0127	1	Units with 24 Volt Starting Circuit (C)
3	338-0661	1	Harness, Wiring - Lamps (Normal and Emergency) Panel Combinations 2,4,6,8,10,12,14,16,18	24	VOLTMETER (AC) - PANEL COMBINATIONS 5,6,7,8,9,10,11,12		
4	338-0659	1	Harness, Wiring - Lamps (Battery Volts) - Panel Combinations 3,4,7,8,11,12,15,16		302-0421	1	Voltage Codes 3,4,5D,53,54,55D
5	315-0374	1	Transformer Assembly - Step Down (Includes Parts Marked *) - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0422	1	Voltage Codes 4X,7,54X,57
6	301-3499	1	*Bracket, Transformer Mounting - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0423	1	Voltage Codes 9X,59X
7	315-0375	2	*Transformer, Step Down - Panel Combinations 2,4,6,8,10,12,14,16,18	25	AMMETER (AC) - PANEL COMBINATIONS 9,10,11,12		
8	332-1468	1	*Block, Terminal - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0416	2	Voltage Codes 3,53
9	332-1663	1	*Strip, Marker - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0416	1	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				26	TRANSFORMER, CURRENT - PANEL COMBINATIONS 9,10,11,12		
					302-1051	2	Voltage Codes 3,53
					302-1051	3	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				27	METER, FREQUENCY - PANEL COMBINATIONS 9,10,11,12		
							50 Hertz
					302-0895	1	Voltage Codes 53,55D,57
					302-0894	1	Voltage Code 54
					302-0893	1	Voltage Codes 54X,59X
							60 Hertz
					302-0811	1	Voltage Codes 3,5D,7

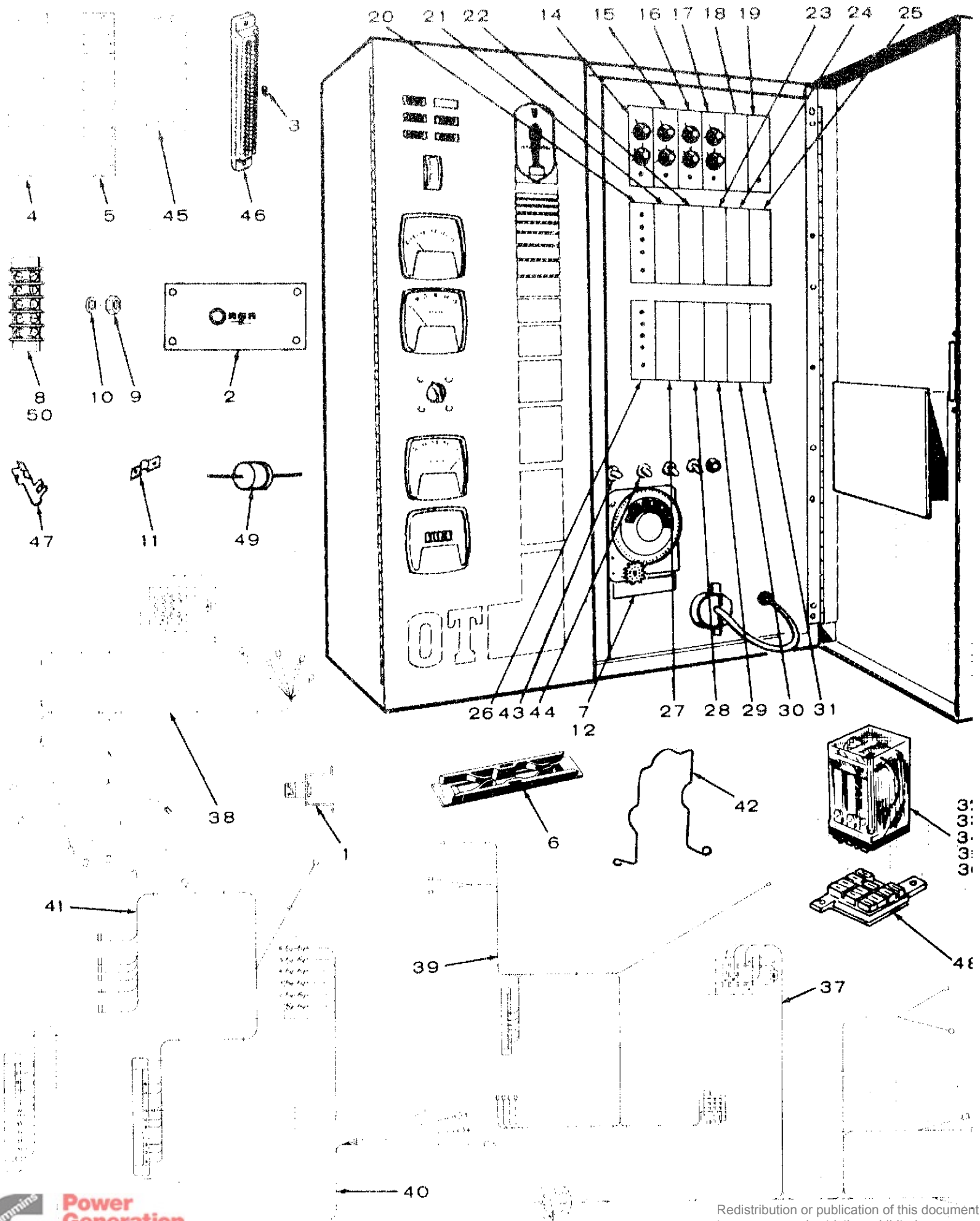
METER-LAMP COMBINATION PANELS (1 THROUGH 18)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302-0810	1	Voltage Code 4		302-0467	1	Voltage Code 4X
	302-0809	1	Voltage Codes 4X,9X	29	304-0536	1	Resistor (9000-Ohm, 50 Watt)
28	METER, RUNNING TIME						Panel Combinations 13,14,15, Voltage Code 9X
			Panel Combinations 9,10,11,12	30	308-0022	1	Switch, Selector - Voltage - Panel Combinations 5,6,7,8, 9,10,11,12
	302-0469	1	Voltage Codes 53,54,55D,57	31	JUMPER - PANEL COMBINATIONS 5,6,7,8, 9,10,11,12		
	302-0468	1	Voltage Codes 54X,59X		332-0592	3	Voltage Codes 4,5D,4X,9X,54, 55D,54X,59X
	302-0466	1	Voltage Codes 3,4,5D,7		332-0592	4	Voltage Codes 7,57
	302-0465	1	Voltage Codes 4X,9X				
			Panel Combinations 13,14,15,16				
	302-0468	1	Voltage Codes 53,59X				
	302-0469	1	Voltage Codes 54,55D,57				
	302-0470	1	Voltage Codes 54X				
	302-0465	1	Voltage Codes 3,9X				
	302-0466	1	Voltage Codes 4,5D,7				

* - Parts included in 315-0374 Transformer Assembly.

MODULAR CONTROL ACCESSORY PANEL ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25



MODULAR CONTROL ACCESSORY PANEL

ACCESSORY GROUPS 10,11,12,13,14,15 20,21,22,23,24,25

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4727	2	Bracket and Fastener - Begin Spec B
2	301-3593	1	Cover, Rack - Accessory Groups 10,11,12,13,20,21, 22,23
3	PLUG, KEYING		Accessory Groups 10 and 20 Voltage Codes 3,53
	332-1276	6	Spec A
	332-2114	6	Begin Spec B
			Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X
	332-1276	8	Spec A
	332-2114	8	Begin Spec B
			Accessory Groups 11,12,13,21, 22 and 23
			Voltage Codes 3,53
	332-1276	7	Spec A
	332-2114	7	Begin Spec B
			Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X
	332-1276	9	Spec A
	332-2114	9	Begin Spec B
			Accessory Groups 14 and 24 Voltage Codes 3,53
	332-1276	9	Spec A
	332-2114	9	Begin Spec B
			Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X
	332-1276	13	Spec A
	332-2114	13	Begin Spec B
			Accessory Groups 15 and 25 Voltage Codes 3,53
	332-1276	10	Spec A
	332-2114	10	Begin Spec B
			Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X
	332-1276	14	Spec A
	332-2114	14	Begin Spec B
4	332-1469	1	Strip, Marker (1 through 12)
5	332-1699	1	Strip, Marker (H, Remote, B+, Grd, 1 through 11 and 53)
6	GUIDE, PRINTED CIRCUIT BOARD - ACCESSORY GROUPS 14,15,24,25		
	323-0814	12	Spec A
	323-1084	12	Begin Spec B
7	301-3487	1	Plate, Cover - Exerciser clock opening in panel - Accessory Groups 10,11,15, 20,21,25
8	332-0604	1	Block, Terminal (5 Place) - Accessory Groups 10,11,15, 20,21,25

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	860-0006	2	Nut, Hex (#6-32) - Accessory Groups 10,11,15,20,21,25
10	850-0020	2	Washer, Lock - Spring (#6) - Accessory Groups 10,11,15, 20,21,25
11	332-1043	1	Jumper, Terminal Block - Accessory Groups 10,11,15, 20,21,25
12	CLOCK, PLANT EXERCISER (120 Volt) - ACCESSORY GROUPS 12,13,14,22,23,24		
	307-1104	1	50 Hertz
	307-1102	1	60 Hertz
14	300-0780	1	Module, Under Voltage Sensor (Line) (See Separate Group for Components)
15	300-0937	1	Module, Blank - Voltage Codes 3,53
15	300-0780	1	Module, Under Voltage Sensor (Line) - Voltage Codes 4, 5D,7,4X,9X,54,55D,57,54X, 59X (See Separate Group for Components)
16	300-0937	1	Module, Blank - Voltage Codes 3,53
16	300-0780	1	Module, Under Voltage Sensor (Line) - Voltage Codes 4, 5D,7,4X,9X,54,55D,57,54X, 59X (See Separate Group for Components)
17	300-0780	1	Module, Under Voltage Sensor (Generator) (See Separate Group for Components)
18	MODULE, VOLTAGE		
	300-0847	1	Units with 12 Volt Starting Circuit (D & E)
	300-0848	1	Units with 24 Volt Starting Circuit (C)
19	300-0937	1	Module, Blank - Accessory Groups 10,15,20,25
19	MODULE, BATTERY CHARGER - Accessory Groups 11,12,13, 14,21,22,23,24 (See Separate Groups for Components)		
	300-0793	1	Units with 12 Volt Starting Circuit (D & E)
	300-0794	1	Units with 24 Volt Starting Circuit (C)

MODULAR CONTROL ACCESSORY PANEL

ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	MODULE, BY-PASS (START-STOP) - Accessory Groups 10,15,20,25 (See Separate Groups for Components)						14,24 (See Separate Group for Components)
	300-0921	1	Units with 12 Volt Starting Circuit (D & E) - Spec A (0-15 Sec Start; 0-10 Minute Stop)	27	300-0937	1	Module, Blank - Accessory Groups 15,25
	300-1059	1	Units with 12 Volt Starting Circuit (D & E) - Spec A (0-10 Minute Start; 0-10 Minute Stop) - Optional	27	300-0937	1	Module, Blank - Accessory Group 14 - Voltage Codes 3,53
	300-0922	1	Units with 24 Volt Starting Circuit (C) - Spec A (0-15 Sec Start; 0-10 Minute Stop)	27	300-0780	1	Module, Over Voltage Sensor (Line) Accessory Group 14 - Voltage Codes 4,5D,7,4X,9X, 54,55D,57,54X,59X and Accessory Group 24 (See Separate Group for Components)
	300-1060	1	Units with 24 Volt Starting Circuit (C) - Spec A (0-10 Minute Start; 0-10 Minute Stop) - Optional	28	300-0937	1	Module, Blank - Accessory Groups 15,25
	300-0921	1	Begin Spec B	28	300-0937	1	Module, Blank - Accessory Group 14 - Voltage Codes 3,53
21	MODULE, BY-PASS (Transfer) (See Separate Groups for Components)			28	300-0780	1	Module, Over Voltage Sensor (Line) Accessory Group 14 - Voltage Codes 4,5D,7,4X, 9X,54,55D 57,54X, and Accessory Group 24 (See Separate Group for Components)
	300-0927	1	Accessory Groups 10,11,12, 13,15,20,21,22,23,25 - Spec A	29	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
	300-1675	1	Accessory Groups 10,11,15, 20,21,25 - Begin Spec B	30	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
21	300-1188	1	Module, Time Delay - Transfer-Retransfer - Accessory Groups 12,13,14,22,23,24 - Begin Spec B (See Separate Groups for Components)	31	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
21	300-0924	1	Module, Time Delay - Transfer - Accessory Groups 14,24 - Spec A (See Separate Group for Components)	32	307-1058	1	Relay, Interposing - Line (12 Volt) - Accessory Groups 10,11,12,13,14,15
22	300-0937	1	Module, Blank - Units with 2 Wire Starting Circuit (C & D)	33	307-1058	1	Relay, Interposing - Generator (12 Volt) - Accessory Groups 10,11,12,13,14,15
22	300-0926	1	Module, 2 to 3 Wire Converter-Units with 3 Wire Starting Circuit (E) (See Separate Group for Components)	34	307-1058	1	Relay, Timer (12 Volt) - Accessory Groups 12,13,14, 15,22,23,24,25 - Spec A
23	300-0937	1	Module, Blank - Accessory Groups 10,11,12,13,15,20, 21,22,23,25	34	307-1058	1	Relay, Retrtransfer (12 Volt) Accessory Groups 13,15,23, 25 - Begin Spec B
23	MODULE, BATTERY VOLTAGE SENSOR - ACCESSORY GROUPS 14,24 (See Separate Groups for Components)			35	307-1058	1	Relay, Over Voltage - Line (12 Volt) - Accessory Groups 14,15,24,25
	300-0796	1	Units with 12 Volt Starting Circuit (D & E)	36	307-1058	1	Relay, Start - Begin Spec B
	300-0797	1	Units with 24 Volt Starting Circuit (C)	37	338-0677	1	Harness, Wiring - Timer Motor - Accessory Groups 12,13,14,15,22,23,24,25 Spec A (Includes Parts Marked *)
24A	307-1199	1	Relay and Bracket, Retrtransfer (120 Volt) - Accessory Groups 12,13,14,22,23,24 Spec A (See Separate Group for Components)	38	HARNESS, WIRING - RETRTRANSFER - ACCESSORY GROUPS 13,15,23,25		
					338-0664	1	Spec A
					338-1136	1	Begin Spec B (Includes Parts Marked Δ)
24	300-0937	1	Module, Blank - Accessory Groups 10,11,15,20,21,25 and Groups 12,13,14,22,23, 24 Begin Spec B	39	HARNESS, WIRING - OVER VOLTAGE - ACCESSORY GROUPS 14,15,24,25 (Includes Parts Marked †)		
					338-0668	1	Voltage Codes 3,53 - Spec A
25	300-0937	1	Module, Blank - Accessory Groups 10,11,15,20,21,25 and Groups 12,13,14,22,23, 24 Begin Spec B		338-0657	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - Spec A
					338-1137	1	Voltage Codes 3,53 - Begin Spec B
26	300-0937	1	Module, Blank - Accessory Groups 15,25		338-1134	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - Begin Spec B
26	300-0780	1	Module, Over Voltage Sensor (Line) Accessory Groups	40	HARNESS, BATTERY VOLTAGE - ACCESSORY GROUPS 14,15,24,25 - (Includes Parts Marked †)		

MODULAR CONTROL ACCESSORY PANEL

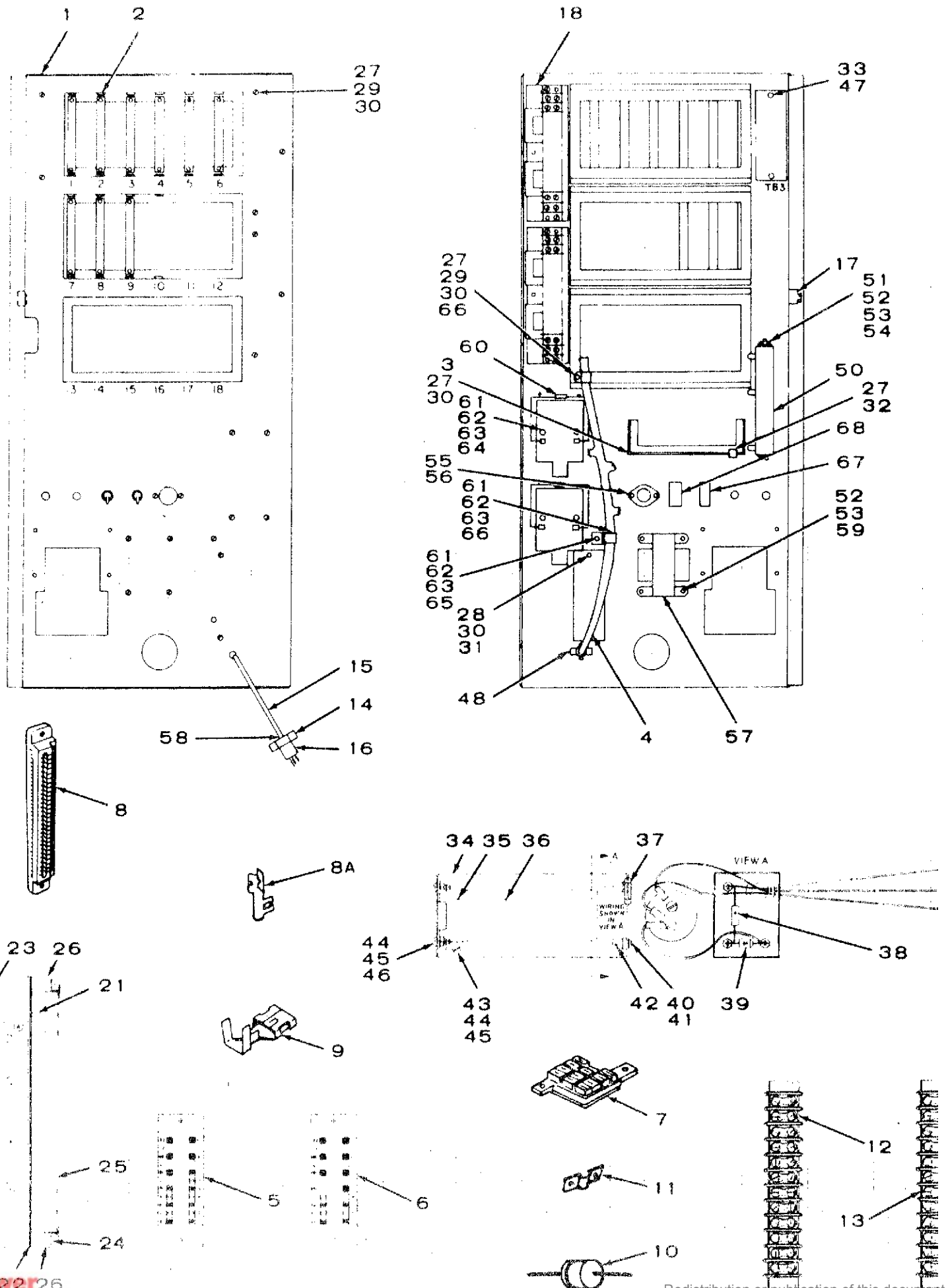
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-0658	1	Spec A				Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X
	338-1135	1	Begin Spec B				
41	HARNESS, TO PREHEAT - ACCESSORY GROUPS 15,25 (Includes Parts Marked □)			332-2108	10	£Accessory Groups 14,15,24,25	
	338-0770	1	Spec A	332-2108	6	†Accessory Groups 14,15,24,25 - Voltage Codes 3,53	
	338-1138	1	Begin Spec B	332-2108	13	□Accessory Groups 15,25	
42	SPRING, RELAY HOLD-DOWN			48	323-0765	1	*Δ†Socket Relay - Accessory Groups 14,15,24,25
	307-1157	1	Accessory Groups 12,13,14,23,24				
	307-1157	2	Accessory Groups 15,25	49	357-0004	1	*Δ†Diode, Rectifier - Accessory Groups 14,15,24,25
43	308-0321	1	Switch, Manual & Automatic - Accessory Groups 13,15,23,25	50	332-0699	1	£Block, Terminal - Accessory Groups 14,15,24,25
44	308-0175	1	Switch, Retransfer - Accessory Groups 13,15,23,25				
45	332-1516	1	Strip, Marker (1 thru 6) - Accessory Groups 14,15,24,25				
46	HOUSING, TERMINAL BOARD - PC						
	332-2107	3	†Accessory Groups 14,15,24,25 - Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X				
	332-2107	1	†£Accessory Groups 14,15,24,25				
	332-2107	1	□Accessory Groups 15,25				
47	TERMINAL PC BOARD						
	332-2108	18	†Accessory Groups 14,15,24,25 -				

- * - Parts Included in 338-0677 Harness Assembly.
- Δ - Parts Included in 338-1136 Harness Assembly.
- † - Parts Included in 338-0657, 338-0668, 338-1134 and 338-1137 Harness Assemblies.
- £ - Parts Included in 338-0658 and 338-1135 Harness Assembly.
- - Parts Included in 338-0770 and 338-1138 Harness Assembly.

SWINGING PANEL ASSEMBLY - SPEC A **ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25**



SWINGING PANEL ASSEMBLY - SPEC A **ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25**

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY, SWINGING - COMPLETE			9	332-1280	12	*Δ†£□#Ø■Terminal, Relay Socket
			Accessory Group 10	10	357-0023	2	*Δ†£□#Rectifier, Diode (Not used on Accessory Groups 20, 21,22,23,24,25)
	300-1396	1	Voltage Codes 3,53				
	300-1395	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	11	332-1043	3	*Δ†£□#Ø■Jumper, Terminal
	300-1521	1	Voltage Codes 7,57	12	332-1468	1	*Δ†£□#Ø■Block, Terminal (12 Place)
			Accessory Groups 11,12,13,14,15	13	332-0795	1	*Δ†£□#Ø■Block, Terminal (16 Place)
	300-1133	1	Voltage Codes 3,53	14	301-3765	2	Plate, Panel Interlock
	300-1134	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	15	503-0679	1	Hose, Insulating
	300-1406	1	Voltage Codes 7,57	16	323-0901	1	Plug, Line Disconnect
	300-1433	1	Accessory Group 20	17	405-1872	1	Clip, Door
	300-1431	1	Accessory Groups 21,22,23,24,25	18	TRANSFORMER ASSEMBLY, STEP DOWN (Includes Parts Marked **)		
1	301-3777	1	Panel Swinging		315-0374	1	Units with Voltage Codes 3,53 (1-Phase)
2	323-0814	20	Guide, PC Board		315-0374	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
3	307-1157	2	Spring, Relay Holddown (All Except Accessory Groups 20,21,22,23,24,25)	19	**BRACKET, TRANSFORMER MOUNTING		
4	HARNESS, WIRING - MAIN - NOT ILLUSTRATED				301-3499	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Group 10		301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
	338-1022	1	Voltage Codes 3,53 (Includes Parts Marked *)	20	TRANSFORMER, STEP DOWN		
	338-1021	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)		315-0375	2	Units with Voltage Codes 3,53 (1-Phase)
	338-1085	1	Voltage Codes 7,57 (Includes Parts Marked †)		315-0375	4	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
			Accessory Groups 11,12,13,14,15	21	**TERMINAL, BLOCK		
	338-0776	1	Voltage Codes 3,53 (Includes Parts Marked £)		332-1468	1	Units with Voltage Codes 3,53 (1-Phase)
	338-0777	1	Voltage Codes 4,5D,4X,9X,54, 55D,54X,59X (Includes Parts Marked □)		332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
	338-1034	1	Voltage Codes 7,57 (Includes Parts Marked #)	22	**STRIP, MARKER		
	338-1045	1	Accessory Group 20 (Includes Parts Marked Ø)		332-1663	1	Units with Voltage Codes 3,53 (1-Phase)
	338-1043	1	Accessory Groups 21,22,23, 24,25 (Includes Parts Marked ■)		332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
5	332-1486	1	*Δ†£□#Ø■Block, Terminal	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
6	332-1487	1	*Δ†£□#Ø■Block, Terminal		815-0387	4	Units with Voltage Codes 3,53 (1-Phase)
7	323-0765	2	*Δ†£□#Ø■Socket, Relay		815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
8	HOUSING, PRINTED CIRCUIT BOARD			24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
			Accessory Group 10		812-0066	2	Units with Voltage Codes 3,53 (1-Phase)
	332-1271	6	*Voltage Codes 3,53		812-0066	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	9	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X	25	**COVER, PROTECTIVE		
	332-1271	8	†Voltage Codes 7,57		332-1651	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Groups 11,12,13,14,15		332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	7	£Voltage Codes 3,53	26	**WASHER, INSULATOR		
	332-1271	9	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57		508-0074	2	Units with Voltage Codes 3,53 (1-Phase)
	332-1271	8	ØAccessory Group 20		508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	9	■Accessory Groups 21,22,23, 24,25	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
8A	TERMINAL, PRINTED CIRCUIT BOARD						Accessory Group 10
			Accessory Group 10		812-0061	8	Units with Voltage Codes 3,53
	332-1269	37	*Voltage Codes 3,53				
	332-1269	47	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1269	47	†Voltage Codes 7,57				
			Accessory Groups 11,12,13, 14,15				
	332-1269	41	£Voltage Codes 3,53				
	332-1269	51	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1269	48	ØAccessory Group 20				
	332-1269	51	■Accessory Groups 21,22,23, 24,25				

SWINGING PANEL ASSEMBLY - SPEC A **ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25**

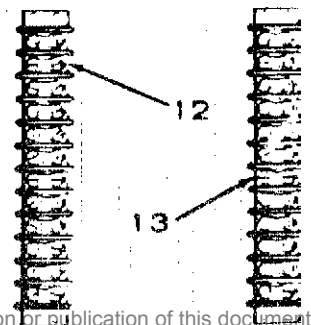
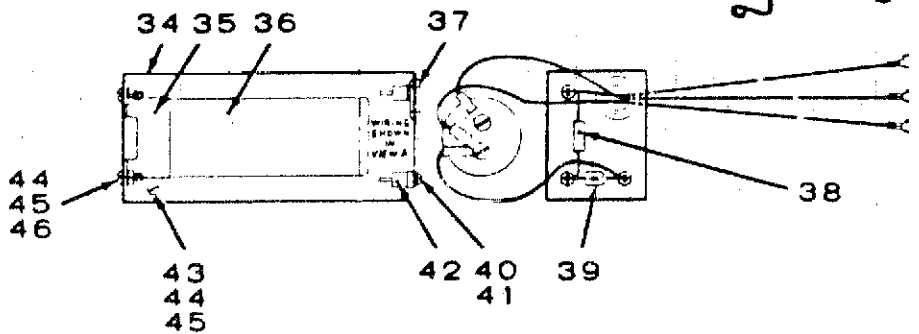
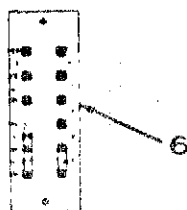
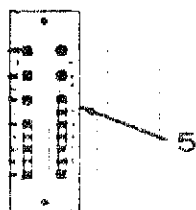
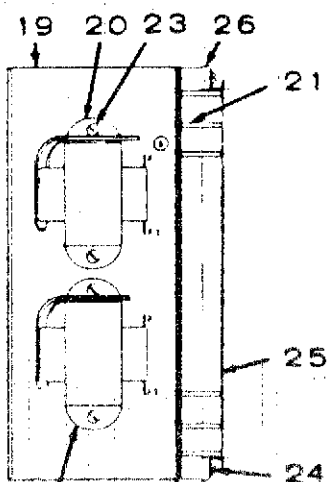
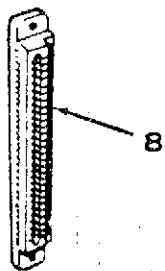
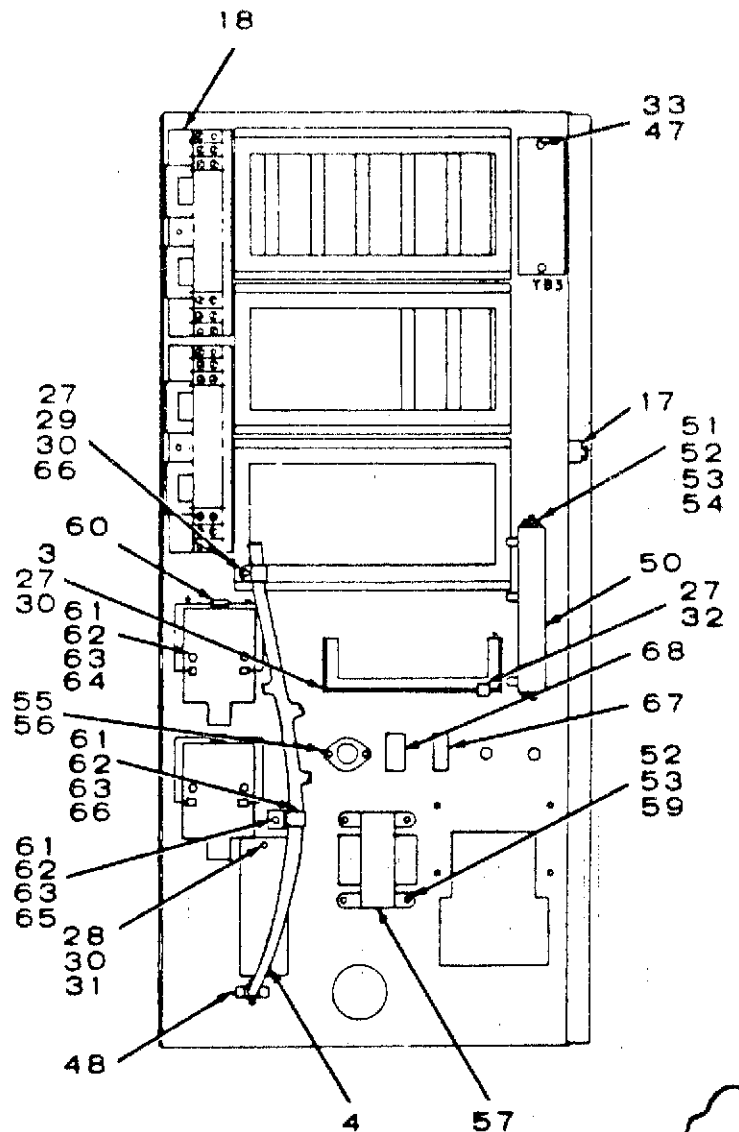
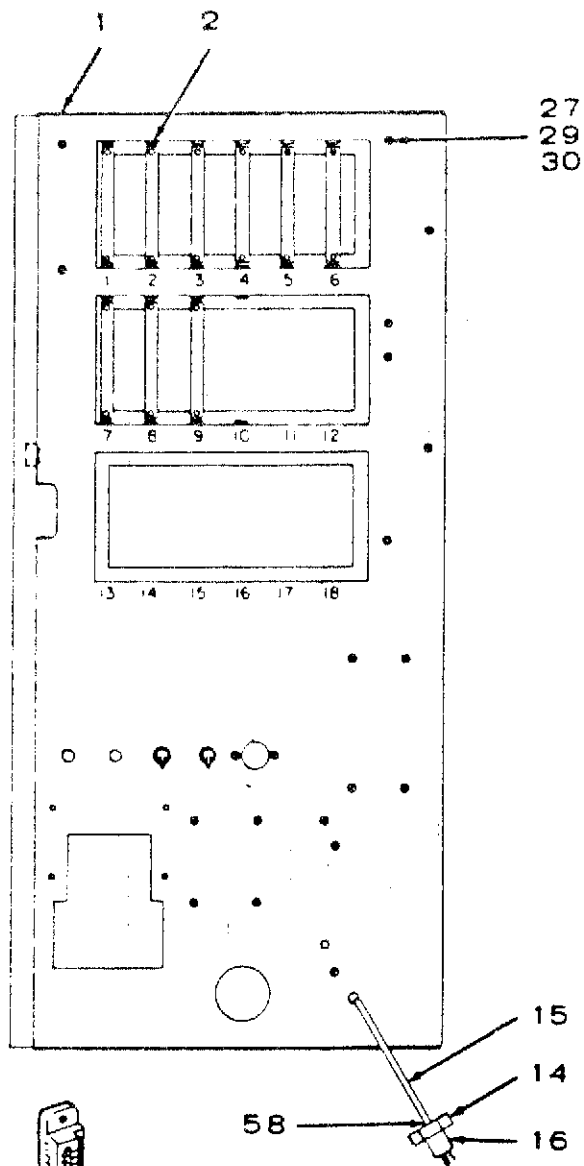
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	13	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	48	332-1969	1	Clamp, Cable
			Accessory Groups 11,12,13,14,15	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Group 11,12,13,14,15,21,22,23, 24,25
	812-0061	12	Units with Voltage Codes 3,53				
	812-0061	13	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	51	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	812-0061	9	Accessory Group 20				
	812-0061	11	Accessory Groups 21,22,23, 24,25	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12,13, 14,15,21,22,23,24,25
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10				
	860-0006	10	Units with Voltage Codes 3,53	54	304-0006	2	Washer, Centering - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	860-0006	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
			Accessory Groups 11,12,13,14,15				
	860-0006	12	Units with Voltage Codes 3,53	56	FUSE		
	860-0006	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X		321-0180	1	Accessory Groups 11,12,13 14,15 (2 Ampere)
			Accessory Groups 11,12,13,14,15		321-0110	1	Accessory Groups 21,22,23, 24,25 (1 Ampere)
	860-0006	11	Accessory Group 20	57	315-0379	1	Transformer, Battery Charge Accessory Groups 11,12,13, 14,15,21,22,23,24,25
	860-0006	13	Accessory Groups 21,22,23, 24,25	58	503-0721	1	Bushing, Rubber - Accessory Groups 11,12,13,14,15
30	WASHER, LOCK - EXTERNAL TOOTH (#6)		Accessory Group 10	59	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	853-0003	10	Units with Voltage Codes 3,53	60	357-0029	2	Diode - Accessory Groups 20,21,22,23,24,25
	853-0003	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	61	812-0082	5	Screw, Machine - Round Head (#8-32 x 3/4") - Accessory Groups 20,21,22,23,24,25
			Accessory Groups 11,12,13,14,15	62	860-0008	5	Nut, Hex (#8-32) - Accessory Groups 20,21,22,23,24,25
	853-0003	12	Units with Voltage Codes 3,53	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Groups 20,21,22,23,24,25
	853-0003	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	64	307-1537	2	Relay, Power - Accessory Groups 20,21,22,23,24,25
			Accessory Groups 11,12,13,14,15	65	301-4235	1	Bracket, Harness - Accessory Groups 20,21,22,23,24,25
	853-0003	11	Accessory Group 20	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,25
	853-0003	13	Accessory Groups 21,22,23,24,25	67	308-0321	1	Switch, Test Transfer
31	332-1485	2	Spacer, Terminal Board	68	308-0322	1	Switch, Selector
32	332-0050	1	Clip, Wire				
33	300-1440	1	Control, Start Suppressions (Includes Parts Marked ***)				
34	301-4316	1	***Bracket, Starter Suppression				
35	356-0070	1	***Clamp, Capacitor Mounting				
36	356-0069	1	***Capacitor, Electrolytic				
37	508-0005	1	***Grommet, Rubber				
38	352-0159	1	***Resistor (.33-Ohm, 3 Watt)				
39	357-0028	1	***Diode				
40	812-0026	3	***Screw, Machine - Round Head (#4-40 x 3/16")				
41	850-0011	3	***Washer, Lock - Spring (#4)				
42	332-1998	3	***Terminal, Stud - Tapped				
43	812-0063	1	***Screw, Machine - Round Head (#6-32 x 1/2")				
44	853-0003	3	***Washer, Lock - External Tooth (#6)				
45	860-0006	3	***Nut, Hex - Machine (#6-32)				
46	812-0061	2	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	853-0008	4	Screw, Tapping - Round Head				

* - Parts Included in 338-1022 Harness Assembly
 Δ - Parts Included in 338-1021 Harness Assembly.
 † - Parts Included in 338-1085 Harness Assembly.
 £ - Parts Included in 338-0776 Harness Assembly.
 □ - Parts Included in 338-0777 Harness Assembly.
 # - Parts Included in 338-1034 Harness Assembly.
 © - Parts Included in 338-1045 Harness Assembly.
 ® - Parts Included in 338-1043 Harness Assembly.
 ** - Parts Included in 315-0374 Transformer Assembly
 *** Parts included in 300-1440 Start Suppression Control

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SWINGING PANEL ASSEMBLY - BEGIN SPEC B
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25



SWINGING PANEL ASSEMBLY - BEGIN SPEC B **ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25**

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY, SWINGING - COMPLETE				332-1269	46	■Accessory Groups 21,22,23,24,25
			Accessory Group 10	9	332-1280	12	*Δ†£□#Ø■Terminal, Relay Socket
	300-1632	1	Voltage Codes 3,53	10	357-0023	3	*Δ†£□#Rectifier, Diode (Not Used on Accessory Groups 20,21,22,23,24,25)
	300-1631	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	11	332-1043	3	*Δ†£□#Ø■Jumper, Terminal
	300-1689	1	Voltage Codes 7,57	12	332-1468	1	*Δ†£□#Ø■Block, Terminal (12 Place)
			Accessory Groups 11,12,13,14,15	13	332-0795	1	*Δ†£□#Ø■Block, Terminal (16 Place)
	300-1630	1	Voltage Codes 3,53	14	301-3765	2	Plate, Panel Interlock
	300-1629	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	15	503-0679	1	Hose, Insulating
	300-1649	1	Voltage Codes 7,57	16	323-0901	1	Plug, Line Disconnect
	300-1634	1	Accessory Group 20	17	405-1872	1	Clip, Door
	300-1633	1	Accessory Groups 21,22,23,24,25	18	TRANSFORMER ASSEMBLY, STEP DOWN (Includes Parts Marked **)		
1	301-4673	1	Panel Swinging		315-0374	1	Units with Voltage Codes 3,53 (1-Phase)
2	323-1084	24	Guide, PC Board		315-0374	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
3	307-1157	3	Spring, Relay Holddown (All Except Accessory Groups 20,21,22,23,24,25)	19	**BRACKET, TRANSFORMER MOUNTING		
4	HARNESS, WIRING - MAIN - NOT ILLUSTRATED				301-3499	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Group 10		301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
	338-1157	1	Voltage Codes 3,53 (Includes Parts Marked *)	20	**TRANSFORMER, STEPDOWN		
	338-1156	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)		315-0375	2	Units with Voltage Codes 3,53 (1-Phase)
	338-1195	1	Voltage Codes 7,57 (Includes Parts Marked †)		315-0375	4	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
			Accessory Groups 11,12,13,14,15	21	**BLOCK, TERMINAL		
	338-1155	1	Voltage Codes 3,53 (Includes Parts Marked £)		332-1468	1	Units with Voltage Codes 3,53 (1-Phase)
	338-1139	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked □)		332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
	338-1185	1	Voltage Codes 7,57 (Includes Parts Marked #)	22	**STRIP, MARKER		
	338-1159	1	Accessory Group 20 (Includes Parts Marked Ø)		332-1663	1	Units with Voltage Codes 3,53 (1-Phase)
	338-1158	1	Accessory Groups 21,22,23,24,25 (Includes Parts Marked ■)		332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
5	332-1486	1	*Δ†£□#Ø■Block, Terminal	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
6	332-1487	1	*Δ†£□#Ø■Block, Terminal		815-0387	4	Units with Voltage Codes 3,53 (1-Phase)
7	323-0765	3	*Δ†£□#Socket, Relay - Accessory Groups 10,11,12,13,14,15		815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
7	323-0765	1	Ø■Socket, Relay - Accessory Groups 20,21,22,23,24,25	24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
8	HOUSING, PRINTED CIRCUIT BOARD				812-0066	2	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Group 10		812-0066	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
	332-2107	6	*Voltage Codes 3,53	25	**COVER, PROTECTIVE		
	332-2107	8	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X		332-1651	1	Units with Voltage Codes 3,53 (1-Phase)
	332-2107	8	†Voltage Codes 7,57		332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
			Accessory Groups 11,12,13,14,15	26	**WASHER, INSULATOR		
	332-2107	7	£Voltage Codes 3,53		508-0074	2	Units with Voltage Codes 3,53 (1-Phase)
	332-2107	9	#□Voltage Codes 4,5D,4X,7,9X,54,55D,54X,59X,57		508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
	332-2107	8	ØAccessory Group 20	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
	332-2107	9	■Accessory Groups 21,22,23,24,25				
8A	TERMINAL, PRINTED CIRCUIT BOARD						
			Accessory Group 10				
	332-1269	36	*Voltage Codes 3,53				
	332-1269	46	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1269	46	†Voltage Codes 7,57				
			Accessory Groups 11,12,13,14,15				
	332-1269	40	£Voltage Codes 3,53				
	332-1269	50	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1269	46	ØAccessory Group 20				

SWINGING PANEL ASSEMBLY - BEGIN SPEC B **ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25**

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	22	Accessory Group 10 Units with Voltage Codes 3,53	48	332-1969	1	Clamp, Cable
	812-0061	29	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Groups 11,12,13,14,15,21,22,23, 24,25
	812-0061	26	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	51	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2") - Accessory Groups 11,12,13,14,15, 21,22,23,24,25
	812-0061	33	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12,13,14,15, 21,22,23,24,25
	812-0061	29	Accessory Group 20	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,21,22,23, 24,25
	812-0061	31	Accessory Groups 21,22,23,24,25				
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	54	304-0006	2	Washer, Centering - Accessory Groups 11,12,13,14,15, 21,22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10 Units with Voltage Codes 3,53	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15, 21,22,23,24,25
	860-0006	24	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	56	FUSE 321-0180	1	Accessory Groups 11,12,13, 14,15 (2 Ampere)
	860-0006	31	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X		321-0110	1	Accessory Groups 21,22,23, 24,25 (1 Ampere)
	860-0006	28	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	57	315-0379	1	Transformer, Battery Charger - Accessory Groups 11,12,13, 14,15,21,22,23,24,25
	860-0006	35	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	58	503-0721	1	Bushing, Rubber - Accessory Groups 11,12,13,14,15
	860-0006	31	Accessory Group 20	59	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16") - Accessory Groups 11,12,13,14,15, 21,22,23,24,25
	860-0006	33	Accessory Groups 21,22,23,24,25	60	357-0029	2	Diode - Accessory Groups 20,21,22,23,24,25
30	WASHER, LOCK - EXTERNAL TOOTH (#6)		Accessory Group 10 Units with Voltage Codes 3,53	61	812-0082	5	Screw, Machine - Round Head (#8-32 x 3/4") - Accessory Groups 20,21,22,23,24,25
	853-0003	24	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	62	860-0008	5	Nut, Hex (#8-32) - Accessory Groups 20,21,22,23,24,25
	853-0003	31	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Group 20,21,22,23,24,25
	853-0003	28	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	64	307-1537	2	Relay, Power - Accessory Groups 20,21,22,23,24,25
	853-0003	35	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	65	301-4235	1	Bracket, Harness - Accessory Groups 20,21,22,23,24,25
	853-0003	31	Accessory Group 20	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,25
	853-0003	33	Accessory Groups 21,22,23,24,25	67	308-0321	1	Switch, Test Transfer
31	332-1485	2	Spacer, Terminal Board	68	308-0322	1	Switch, Selector
32	332-0050	1	Clip, Wire	69	307-1157	1	Spring, Relay Hold-down
33	300-1627	1	Control, Start Suppression (Includes Parts Marked ***)				
34	301-4316	1	***Bracket, Starter Suppression				
35	356-0070	1	***Clamp, Capacitor Mounting				
36	356-0069	1	***Capacitor, Electrolytic				
37	508-0005	1	***Grommet, Rubber				
38	352-0159	1	***Resistor (.33-Ohm, 3 Watt)				
39	357-0028	1	***Diode				
40	812-0026	3	***Screw, Machine - Round Head (#4-40 x 3/16")				
41	850-0011	3	***Washer, Lock - Spring (#4)				
42	332-1998	3	***Terminal, Stud - Tapped				
43	812-0063	1	***Screw, Machine - Round Head (#6-32 x 1/2")				
44	853-0003	3	***Washer, Lock - External Tooth (#6)				
45	860-0006	3	***Nut, Hex - Machine (#6-32)				
46	812-0061	2	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	808-0008	4	Screw, Tapping - Round Head				

* - Parts Included in 338-1157 Harness Assembly.

Δ - Parts Included in 338-1156 Harness Assembly.

† - Parts Included in 338-1195 Harness Assembly.

E - Parts Included in 338-1155 Harness Assembly.

□ - Parts Included in 338-1139 Harness Assembly.

- Parts Included in 338-1185 Harness Assembly.

⊗ - Parts Included in 338-1159 Harness Assembly.

■ - Parts Included in 338-1158 Harness Assembly.

*** - Parts Included in 315-0374 Transformer Assembly.

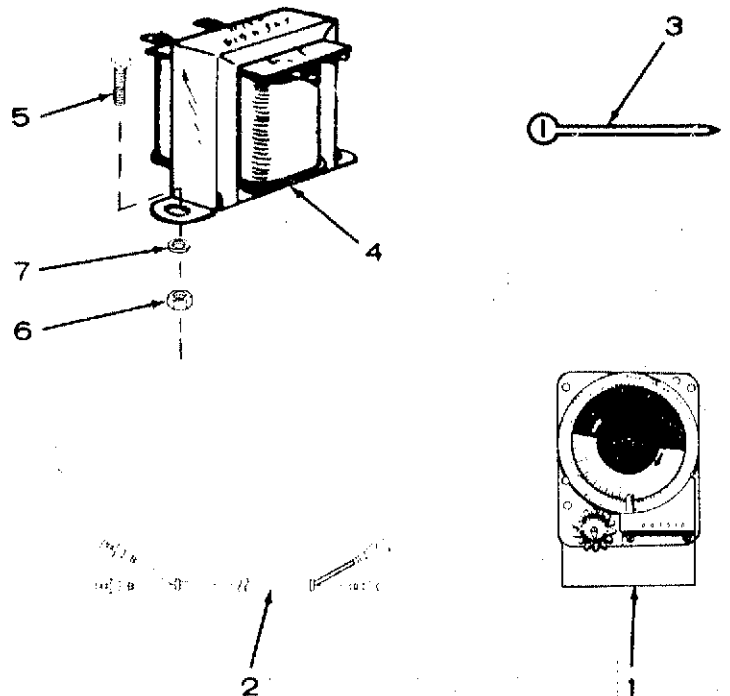
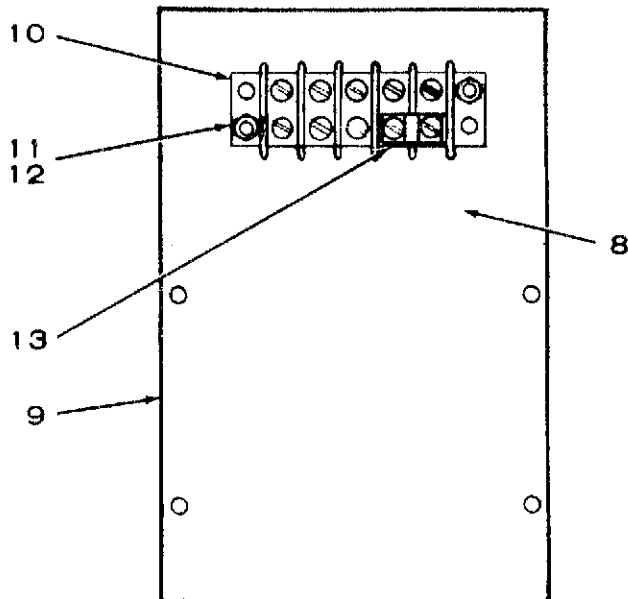
*** - Parts Included in 300-1627 Start Suppression

Control.

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EXERCISER CLOCK KIT - OPTIONAL WIRE IN ACCESSORY GROUPS 10,11,15,20,21,25 (60 HERTZ)

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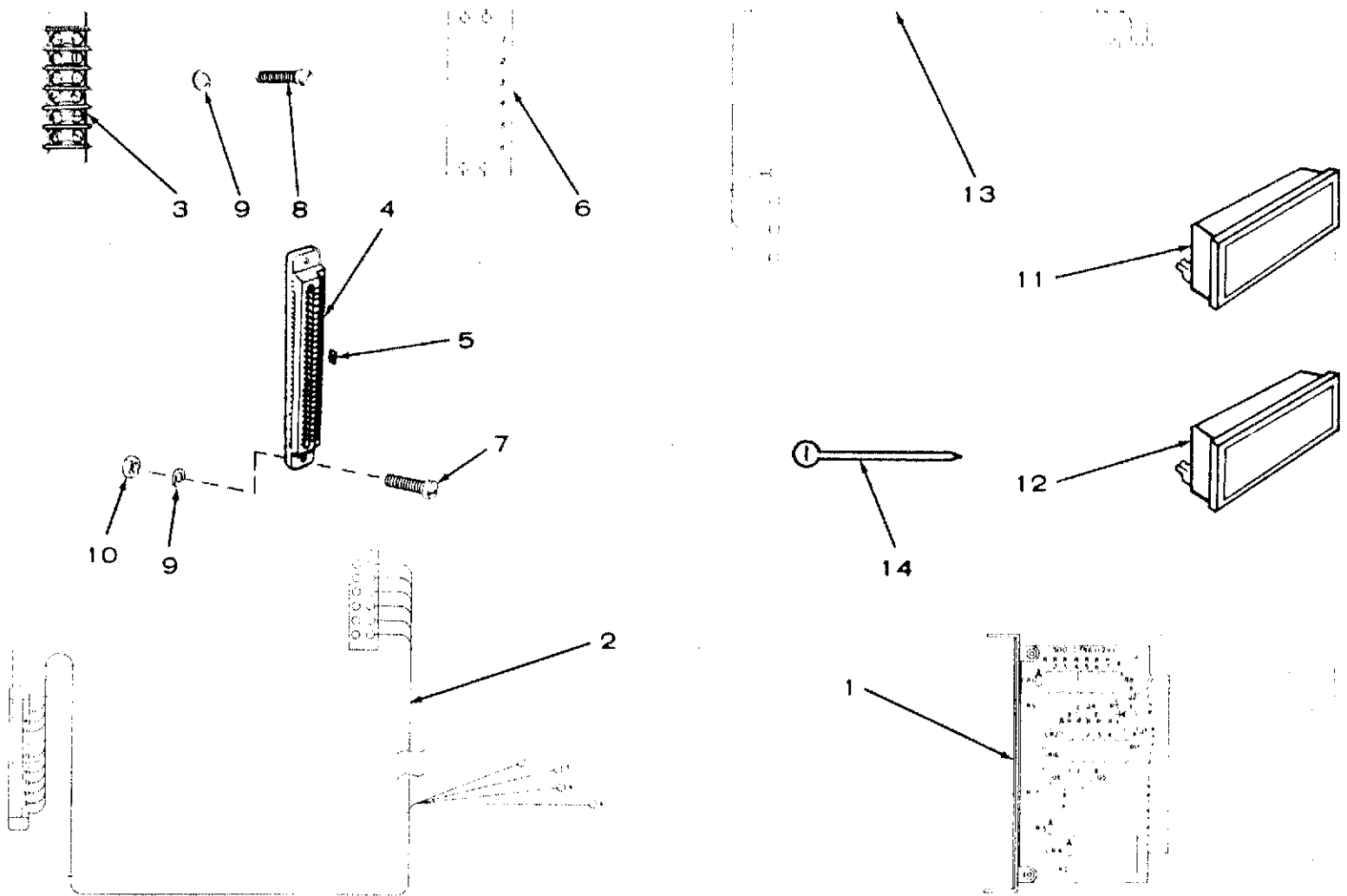
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, EXERCISER CLOCK (COMPLETE) - 60 Hertz		
	307-1652	1	Accessory Groups 10,20, Voltage Codes 3,4,5D,7
	307-1648	1	Accessory Groups 10,20, Voltage Codes 4X,9X (Includes Leads)
	307-1650	1	Accessory Groups 11,15,21, 25, Voltage Codes 3,4,4X, 5D,7,9X
1	SWITCH, TIME		
	307-1103	1	240 Volt, 60 Hertz - Accessory Groups 10,20 - Voltage Codes 3,4,5D
	307-1102	1	120 Volt, 60 Hertz - Accessory Groups 10,20 - Voltage Codes 4X,9X
	307-1102	1	120 Volt, 60 Hertz - Accessory Groups 11,15,21,25 - Voltage Codes 3,4,4X,5D,7,9X
2	338-1189	1	Harness, Wiring - Accessory Groups 10,20 - Voltage Codes 3,4,5D,7X

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
3	332-0942	12	Tie, Cable - Accessory Groups 10,20
4	315-0379	1	Transformer, Battery Charger - Accessory Groups 10,20, Voltage Codes 4X,9X
5	812-0079	4	Screw, Machine - Round Head (#8-32 x 1/2")
6	860-0008	4	Nut, Hex - Machine (#8-32)
7	853-0005	4	Washer, Lock - ET (#8)
8	332-1484	1	Terminal Block Assembly, Exerciser Clock Bypass (Includes Parts Marked *)
9	301-3487	1	*Plate, Exerciser Clock Opening Cover
10	332-0604	1	*Block, Terminal
11	860-0006	2	*Nut, Hex - Machine (#6-32)
12	850-0020	2	*Washer, Lock - Spring (#6)
13	332-1043	1	*Jumper

* - Parts Included in 332-1484 Exerciser Clock Bypass Assembly.

BATTERY VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN ACCESSORY GROUPS 11,12,13,21,22,23

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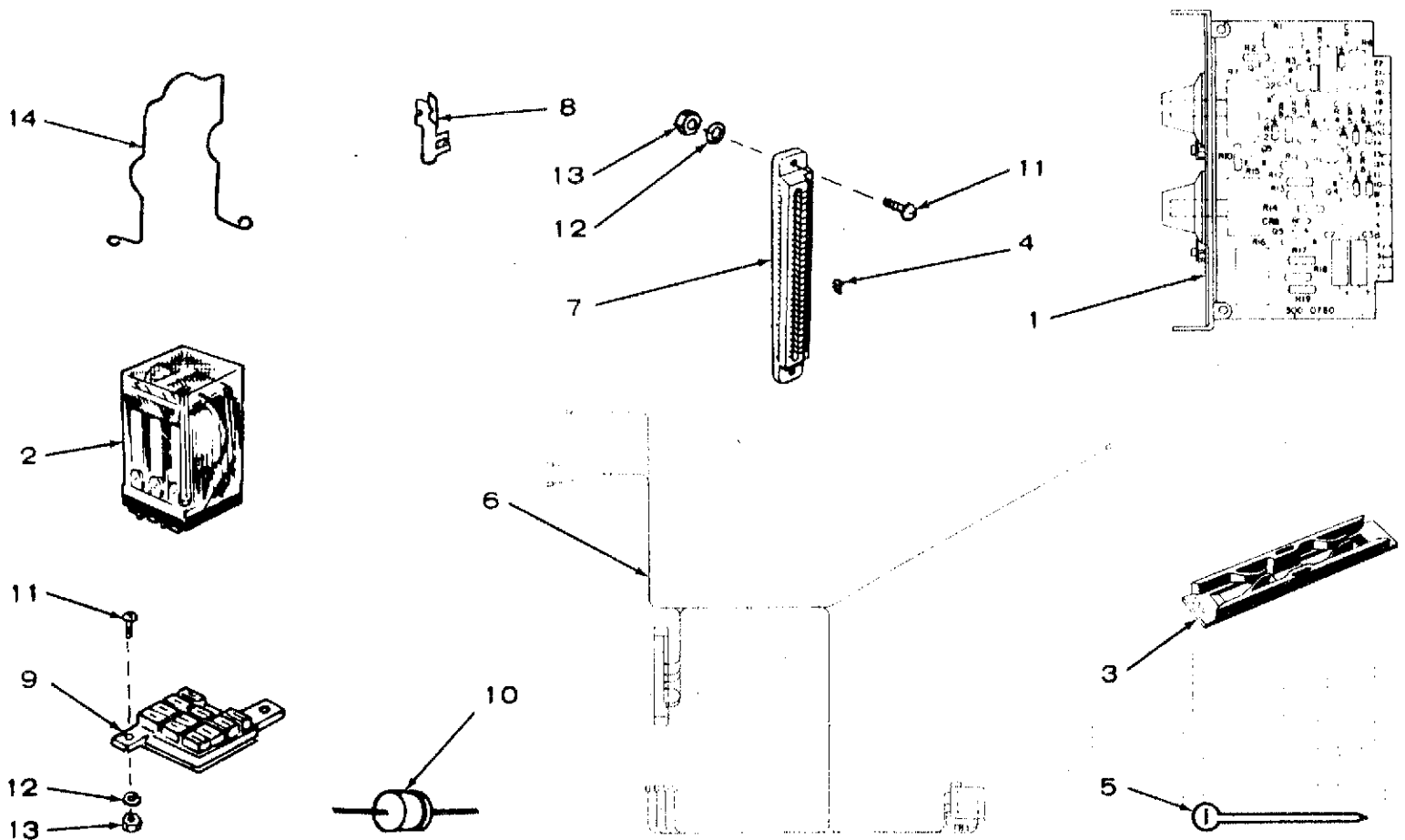


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, BATTERY VOLTAGE (Complete)		
	300-1019	1	12 Volt
	300-1022	1	24 Volt
1	SENSOR, BATTERY VOLTAGE (See Separate Group for Components)		
	300-0796	1	12 Volt
	300-0797	1	24 Volt
2	338-0658	1	Harness, Wiring (Includes Terminal Block and Printed Circuit Board Terminal Housing)
3	332-0699	1	Block, Terminal (Part of Wiring Harness)
4	332-2107	1	Housing, Printed Circuit Board Terminal (Part of Wiring Harness)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2114	1	Plug, Keying
6	332-1516	1	Strip, Marker
7	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
8	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
9	853-0003	4	Washer, Lock - ET (#6)
10	860-0006	2	Nut, Hex - Machine (#6-32)
11	LAMP, LOW BATTERY VOLTAGE INDICATOR		
	322-0114	1	12 Volt
	322-0126	1	24 Volt
12	LAMP, HIGH BATTERY VOLTAGE INDICATOR		
	322-0115	1	12 Volt
	322-0127	1	24 Volt
13	338-0659	1	Harness, Lamps
14	332-0942	1	Tie, Cable

OVER VOLTAGE SENSOR KIT - OPTIONAL WIRE IN ACCESSORY GROUPS 10,11,12,13,20,21,22,23

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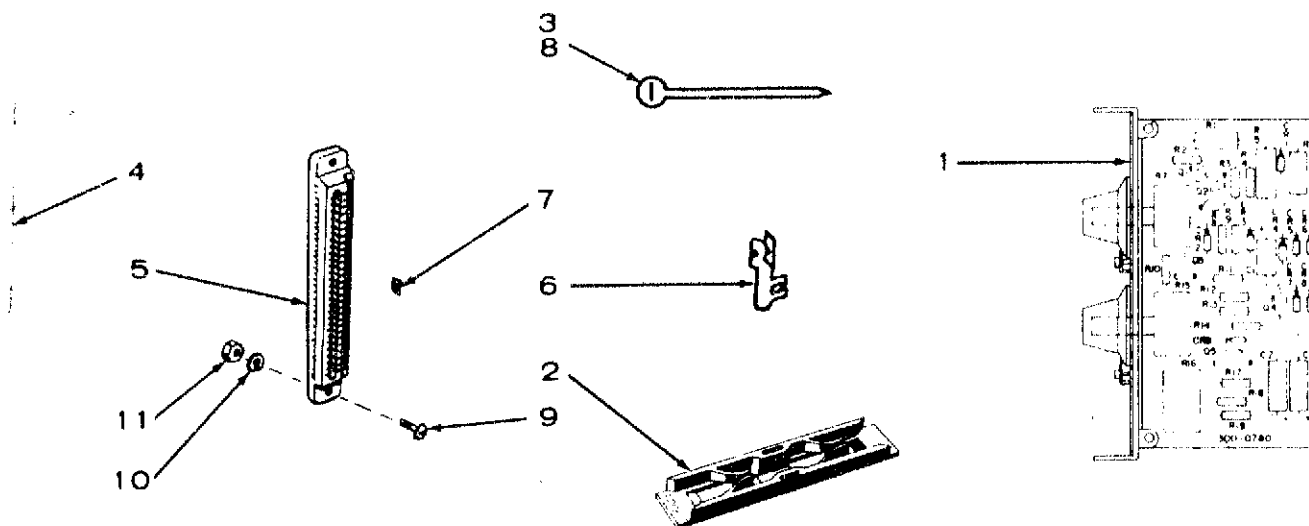
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR KIT, OVER VOLTAGE (Complete)		
	300-1020	1	1 Phase Units
	300-1021	1	3 Phase Units
1	SENSOR, VOLTAGE		
	300-0780	1	1 Phase Units
	300-0780	3	3 Phase Units
2	307-1058	1	Relay
3	GUIDE, PRINTED CIRCUIT BOARD		
			Spec A
	323-0814	2	1 Phase Units
	323-0814	6	3 Phase Units
			Begin Spec B
	323-1084	2	1 Phase Units
	323-1084	6	3 Phase Units
4	PLUG, KEYING		
	332-2114	1	1 Phase Units
	332-2114	3	3 Phase Units
5	TIE, CABLE		
	332-0942	25	1 Phase Units
	332-0942	36	3 Phase Units
6	HARNESS, WIRING (Includes Parts Marked *)		
	338-0668	1	1 Phase Units

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-0657	1	3 Phase Units
7	*HOUSING, PRINTED CIRCUIT BOARD TERMINAL		
	332-2107	1	1 Phase Units
	332-2107	3	3 Phase Units
8	*TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	6	1 Phase Units
	332-2108	18	3 Phase Units
9	323-0765	1	*Socket, Relay
10	357-0004	1	*Rectifier, Diode
11	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
	812-0061	4	1 Phase Units
	812-0061	8	3 Phase Units
12	WASHER, LOCK - ET (#6)		
	853-0008	4	1 Phase Units
	853-0008	8	3 Phase Units
13	NUT, HEX - MACHINE (#6-32)		
	860-0006	4	1 Phase Units
	860-0006	8	3 Phase Units
14	307-1157	1	Spring, Relay Hold-down

* - Parts Included in Wiring Harness Assembly.

PREHEAT TIME DELAY KIT - OPTIONAL WIRE IN ACCESSORY GROUPS 10,11,12,13,14,20,21,22,23,24

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, TIME DELAY - PREHEAT (Complete)		
	300-1800	1	Spec A
	300-1107	1	Begin Spec B
1	300-1072	1	Module, Preheat Time Delay (See Separate Group for Components)
2	GUIDE, PRINTED CIRCUIT BOARD		
	323-0814	2	Spec A
	323-1084	2	Begin Spec B
3	332-0942	12	Tie, Cable
4	HARNESS, WIRING		
	338-1268	1	Spec A (Includes Parts Marked †)
	338-0770	1	Begin Spec B (Includes Parts Marked *)

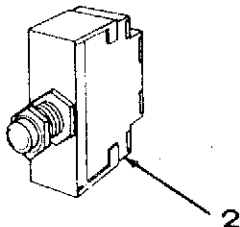
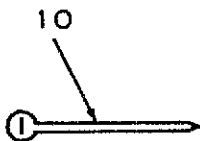
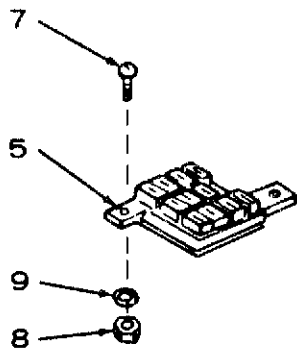
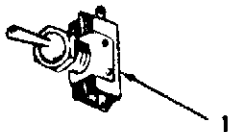
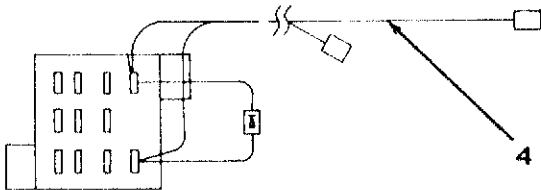
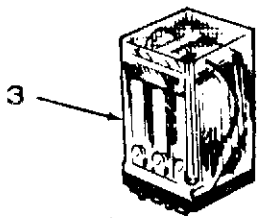
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2107	1	†Housing, Printed Circuit Board Terminal
6	TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	7	†Spec A
	332-1269	6	†Spec A
	332-2108	13	*Begin Spec B
7	332-2114	1	†Plug, Keying
8	332-0942	12	†Tie, Cable
9	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
10	853-0003	2	Washer, Lock - ET (#6)
11	860-0006	2	Nut, Hex - Machine (#6-32)

† - Parts Included in 338-1268 Wiring Harness.

* - Parts Included in 338-0770 Wiring Harness.

RETRANSFER SWITCH PACKAGE (MANUAL PUSH) - OPTIONAL WIRE IN
ACCESSORY GROUPS 10,11,12,14,20,21,22 (ALSO GROUPS 24 AND 25 SPEC A ONLY)

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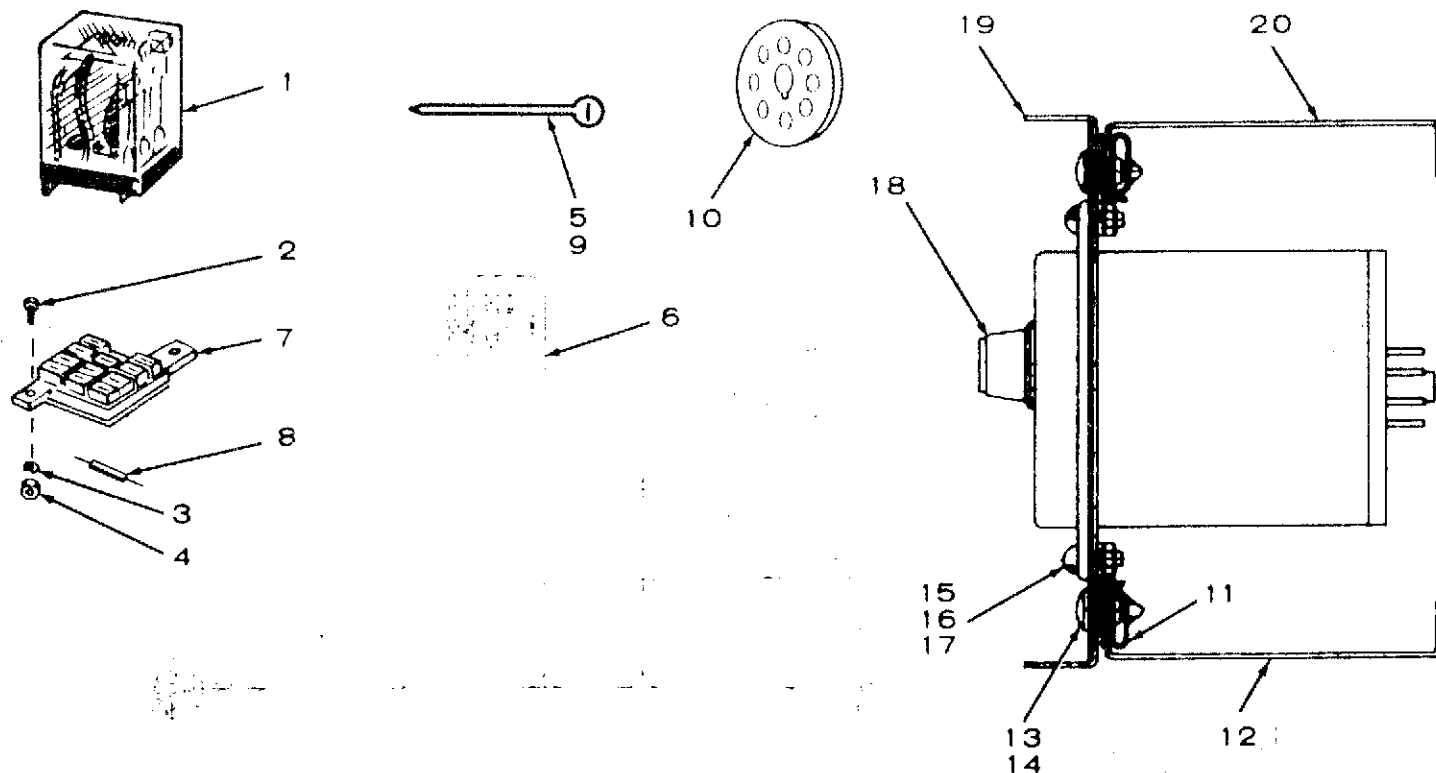


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	308-0343	1	Switch Package - Retransfer (Complete)
1	308-0321	1	Switch, Manual and Automatic
2	308-0175	1	Switch, Retransfer
3	307-1058	1	Relay
4	338-1061	1	Harness, Wiring (Includes Diode and Socket)
5	323-0765	1	Socket, Relay (Part of

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	357-0004	1	Wiring Harness)
7	812-0061	2	Rectifier, Diode (Part of Wiring Harness)
8	860-0006	2	Screw, Machine - Round Head (#6-32 x 3/8")
9	853-0003	2	Nut, Hex - Machine (#6-32)
10	332-0942	2	Washer, Lock - ET (#6)
		9	Tie, Cable

RETRANSFER TIME DELAY (0-30 MINUTES) - SPEC A ONLY

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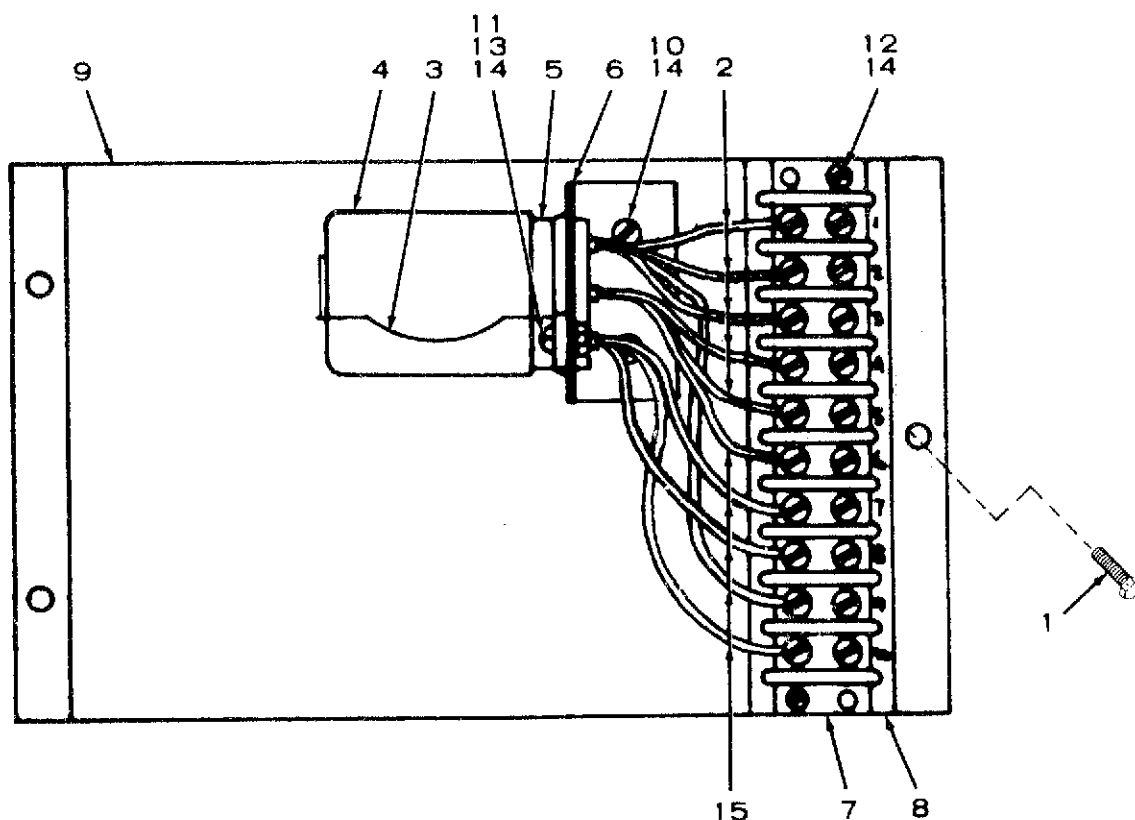
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	307-1285	1	Time Delay Package - Re-transfer - Wire In - Optional (Includes Parts Marked *)
	307-1199	1	*Time Delay Package - Re-transfer - Plug In (Includes Parts Marked †)
1	307-1058	1	*Relay
2	812-0061	6	*Screw, Machine - Round Head (#6-32 x 3/8")
3	853-0003	6	*Washer, Lock - ET (#6)
4	860-0006	6	*Nut, Hex - Machine (#6-32)
5	332-0942	9	*Tie, Cable
6	338-0677	1	*Harness, Wiring (Includes Parts Marked •)
7	323-0765	1	•Socket, Relay
8	357-0004	1	•Rectifier, Diode
9	332-0942	15	•Tie, Cable
10	323-0850	1	•Plug, Relay

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	406-0332	2	†Receptacle, Fastener
12	301-3557	1	†Bracket, Panel Support (Bottom)
13	406-0333	2	†Stud, Fastener
14	406-0334	2	†Washer, Stud Retainer
15	812-0061	2	†Screw, Machine - Round Head (#6-32 x 3/8")
16	853-0003	2	†Washer, Lock - ET (#6)
17	860-0006	2	†Nut, Hex - Machine (#6-32)
18	307-1170	1	†Relay, Time Delay (0-30 Minutes, 120 Volt, 50/60 Hertz)
19	301-3558	1	†Panel, Motor Timer
20	301-3556	1	†Bracket, Panel Support (Top)

- * - Parts Included in 307-1285 Time Delay Package.
- - Parts Included in 338-0677 Wiring Harness.
- † - Parts Included in 307-1199 Time Delay Package.

AUXILIARY STARTING CONTACTS RELAY ASSEMBLY - OPTIONAL WIRE IN

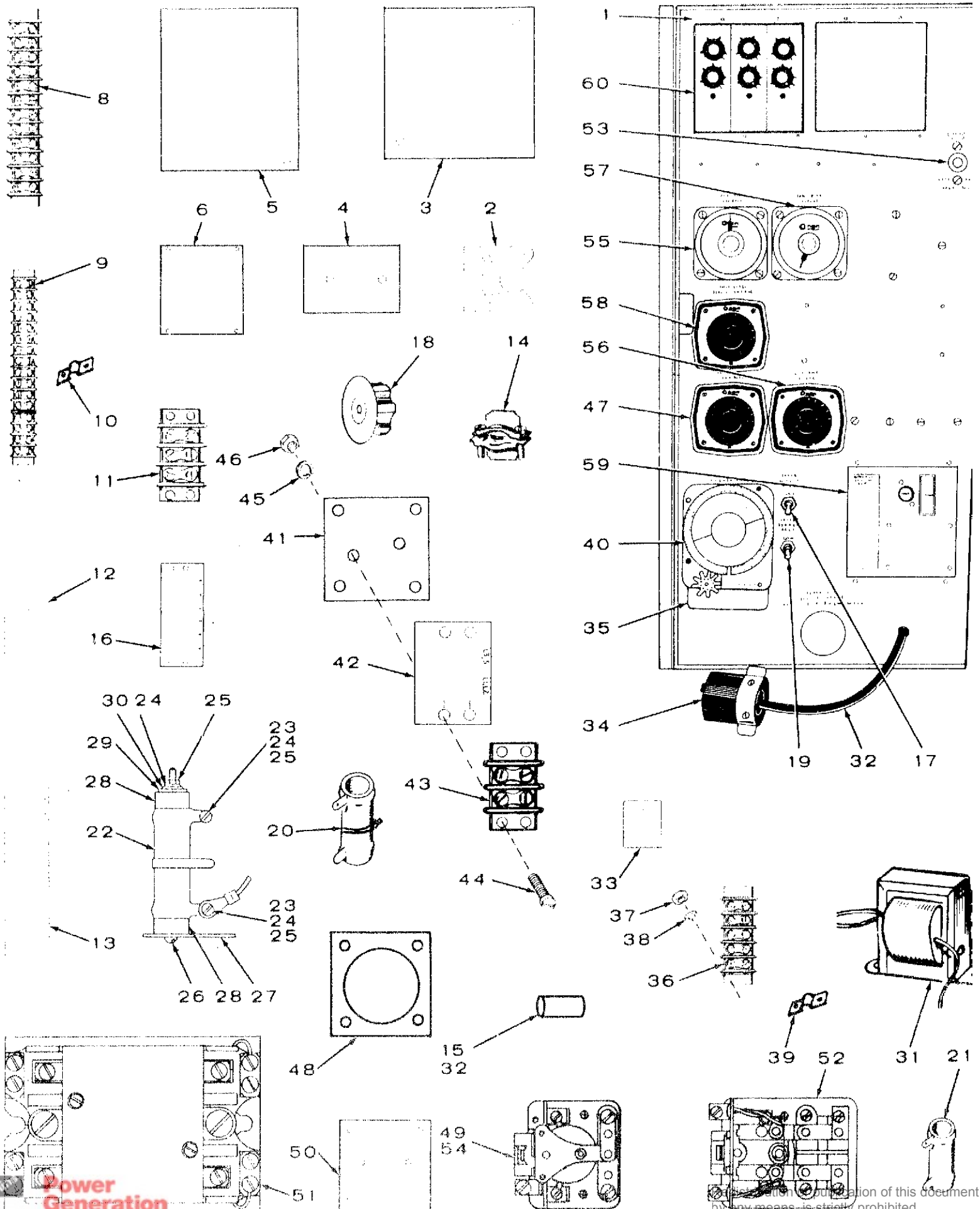
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	RELAY PACKAGE, AUXILIARY STARTING CONTACTS		
	307-1320	1	For Units with 12 Volt Starting Circuit (D & E)
	307-1321	1	For Units with 24 Volt Starting Circuit (C)
1	815-0387	3	Screw, Machine - Pan Head Cross Recessed (#6-32 x 1/4")
2	336-2179	6	Lead
3	307-1157	1	Spring, Relay Holddown
4	RELAY		
	307-1058	1	12 Volt (For 12 Volt Starting Circuit D & E)
	307-1056	1	24 Volt (For 24 Volt Starting Circuit C)
5	323-0765	1	Socket, Relay

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	301-3620	1	Bracket, Relay Mounting
7	332-0751	1	Terminal, Block
8	332-0853	1	Strip, Marker
9	301-3632	1	Bracket, Relay and Transfer
10	815-0387	2	Screw, Machine - Pan Head Cross Recessed (#6-32 x 1/4")
11	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
12	815-0388	2	Screw, Machine - Pan Head Cross Recessed (#6-32 x 1/2")
13	860-0006	2	Nut, Hex Head Machine (#6-32)
14	853-0003	6	Washer, Lock - ET (#6)
15	336-2066	4	Lead

RELAY TYPE ACCESSORY PANEL ACCESSORY GROUPS 51,52,53,54,55



RELAY TYPE ACCESSORY PANEL ACCESSORY GROUPS 51,52,53,54,55

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-3825	1	Panel, Swinging		850-0020	3	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
2	405-1872	2	Clip, Door		850-0020	6	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
3	301-2259	1	Plate, Cover (3-5/8 x 3-5/8")	25	NUT, HEX - MACHINE (#6-32)		
4	301-3842	1	Plate, Cover (2.31 x 1.62") (Not used on Units with 3 Wire Starting Circuit)	860-0006	3	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
5	301-4087	2	Plate, Cover (5 x 6")	860-0006	6	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
6	301-4141	1	Plate, Cover (6-1/2 x 6")	26	SCREW, MACHINE - ROUND HEAD (#6-32 x 3")		
7	HARNESS, WIRING - MAIN - NOT ILLUSTRATED			812-0140	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
			Voltage Codes 3,4,5D,53,54,55D	812-0140	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
	338-0923	1	2 Wire Starting Circuit (C & D) (Includes Parts Marked *)	27	INSULATOR, RESISTOR		
	338-0921	1	3 Wire Starting Circuit (E) (Includes Parts Marked Δ)	304-0292	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
			Voltage Codes 4X,9X,54X,59X	304-0292	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
			2 Wire Starting Circuit (C & D) (Includes Parts Marked †)	28	INSULATOR, RESISTOR		
	338-0922	1	3 Wire Starting Circuit (E) (Includes Parts Marked £)	508-0161	2	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
			Voltage Codes 7,57	508-0161	4	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
	338-1091	1	2 Wire Starting Circuit (C & D) (Includes Parts Marked □)	29	WASHER, FIBER		
	338-1058	1	3 Wire Starting Circuit (E) (Includes Parts Marked #)	508-0015	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
				508-0015	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
8	332-1468	1	#□£†Δ*Block, Terminal (12 Place)	30	WASHER, FLAT (.172" ID x 3/8" OD x 1/32" Thk)		
9	332-0795	1	#□£†Δ*Block, Terminal (16 Place)	526-0048	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
10	332-1043	2	#□£†Δ*Jumper, Terminal	526-0048	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
11	332-0611	1	£Block, Terminal (3 Place)	31	TRANSFORMER		
12	332-1699	1	Strip, Marker (Remote, B+, Gnd, 1 thru 11, 55)	315-0153	1	Units with Voltage Codes 4X,54X (480 Volt)	
13	332-1469	1	Strip, Marker (1 thru 12)	315-0365	1	Units with Voltage Codes 9X,59X (600 Volt)	
14	332-1969	1	Clamp, Cable	32	503-0801	1	Hose, Insulating
15	503-0721	1	Bushing, Rubber	33	301-3765	2	Plate, Panel Interlock
16	332-1968	1	Strip, Marker (2 and 3) - Voltage Codes 4X,9X,54X,59X	34	323-0901	1	Plug, Line Disconnect
				35	301-3487	1	Plate, Cover - Exerciser Clock Opening - Accessory Groups 51,52
17	SWITCH, SELECTOR			36	332-0604	1	Terminal, Block (5 Place) - Accessory Groups 51,52
	308-0138	1	Units with 2 Wire Starting Circuits (C & D)	37	860-0006	2	Nut, Hex (#6-32) - Accessory Groups 51,52
	308-0193	1	Units with 3 Wire Starting Circuits (E)	38	850-0020	2	Washer, Lock - Spring (#6) Accessory Groups 51,52
18	303-0076	1	Knob, Switch - Units with 3 Wire Starting Circuits	39	332-1043	1	Jumper, Terminal Block - Accessory Groups 51,52
19	308-0069	1	Switch, Test-Transfer	40	CLOCK, PLANT EXERCISER		
20	RESISTOR						Voltage Codes 3,4,5D,7,53,54,55D,57
	304-0131	1	Voltage Codes 3,4,5d,7,53,54,55D,57 (750-ohm, 25 Watt)	307-1103	1	60 Hertz	
	304-0563	1	Voltage Codes 4X,9X,54X,59X (2500-ohm, 25 Watt)	307-1105	1	50 Hertz	
21	353-0055	1	Resistor (3-ohm, 10 Watt) - Units with 3 Wire Starting (E)				Voltage Codes 4X,9X,54X,59X
22	RESISTOR (500-ohm, 25 Watt)			307-1102	1	60 Hertz	
	304-0094	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	307-1104	1	50 Hertz	
	304-0094	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	41	PLATE, RELAY BYPASS		
23	SCREW, MACHINE - ROUND HEAD (#6-32 x 1/4")			301-3837	3	Accessory Group 51	
	812-0059	2	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	301-3837	2	Accessory Groups 52,53,54	
	812-0059	4	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	42	STRIP, MARKER		
							Accessory Group 51
24	WASHER, LOCK - SPRING (#6)			332-1821	1	2 Place (L3,5-L1L2) - Voltage Codes 3,4,5D,7,53,54,55D,57	

Power

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Power Generation

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RELAY TYPE ACCESSORY PANEL ACCESSORY GROUPS 51,52,53,54,55

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	332-1824	1	2 Place (L1,2-L2) - Voltage Codes 4X,9X,54X,59X		307-1080	1	Voltage Codes 4X,9X,54X,59X
	332-1820	2	2 Place (7,8-6)	50	301-3375	1	Plate, Relay Mounting - Accessory Groups 51,52,53
	332-1822	1	3 Place (L1,L3-(3)-3,5) - Voltage Codes 3,53	51	RELAY, INTERPOSING - GENERATOR		
			Accessory Groups 52,53,54		307-0664	1	Voltage Codes 3,4,5D,7,53,54,55D,57
	332-1821	1	2 Place (L3,5-L1,L2) - Voltage Codes 3,4,5D,7,53,54,55D,57		307-0707	1	Voltage Codes 4X,54X
	332-1824	1	2 Place (L1,2-L2) - Voltage Codes 4X,9X,54X,59X		307-0708	1	Voltage Codes 9X,59X
	332-1820	1	2 Place (7,8-6)	52	RELAY, INTERPOSING - LINE		
	332-1822	1	3 Place (L3,5-L1,L2) - Voltage Codes 3,53		307-1083	1	Voltage Codes 3,5D,7,53,55D,57
	332-1822	1	Accessory Groups 55 - Voltage Groups 2,3,52,53		307-1113	1	Voltage Codes 4,54
43	BLOCK, TERMINAL				307-0663	1	Voltage Codes 4R,9X,54X,59X
			2 Place	53	320-0221	1	Limiter, Cranking - Three Wire Starting Circuit
	332-1937	3	Accessory Group 51	54	RELAY, PHASE PROTECTION		
	332-1937	2	Accessory Groups 52,53,54		307-1114	1	Voltage Code 4
	332-0611	1	3 Place - Voltage Codes 3,53		307-1081	1	Voltage Code 5D
44	SCREW, MACHINE - ROUND HEAD (#6-32 x 5/8")				307-1119	1	Voltage Code 4X
			Accessory Group 51		307-1425	1	Voltage Code 9X
	812-0065	8	Voltage Codes 3,53		307-1081	2	Voltage Code 7
	812-0065	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	55	RELAY, TIME DELAY ON RETRANSFER - ACCESSORY GROUPS 52,53,54,55		
			Accessory Groups 52,53,54		307-0724	1	Voltage Codes 3,4,5D,7,53,54,55D,57
	812-0065	6	Voltage Codes 3,53		307-0722	1	Voltage Codes 4X,9X,54X,59X
	812-0065	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	56	RELAY, TIME DELAY ON STARTING - ACCESSORY GROUPS 54,55		
	812-0065	2	Accessory Group 55, Voltage Codes 3,53		307-1158	1	Voltage Codes 3,4,5D,7,53,54,55D,57
45	WASHER, LOCK - EIT (#6)				307-1159	1	Voltage Codes 4X,9X,54X,59X
			Accessory Group 51	57	RELAY, TIME DELAY ON STOPPING - ACCESSORY GROUPS 55		
	856-0001	8	Voltage Codes 3,53				Voltage Codes 3,4,5D,7,53,54,55D,57
	856-0001	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		307-0724	1	2 Wire Starting Circuit (C & D)
			Accessory Groups 52,53,54		307-1419	1	3 Wire Starting Circuit (E)
	856-0001	6	Voltage Codes 3,53				Voltage Codes 4X,9X,54X,59X
	856-0001	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		307-0722	1	2 Wire Starting Circuit (C & D)
	856-0001	2	Accessory Group 55, Voltage Codes 3,53		307-1417	1	3 Wire Starting Circuit (E)
46	NUT, HEX - MACHINE (#6-32)			58	307-1450	1	Relay Package, Time Delay on Pre-Heat - For 3 Wire Starting Circuit (E) - Optional Wire In
			Accessory Group 51	59	CHARGER PACKAGE, BATTERY - OPTIONAL WIRE IN (See Separate Groups for Components)		
	860-0006	8	Voltage Codes 3,53		305-0562	1	120 Volt AC Input, 12 Volt DC - 300 Milliampere Output
	860-0006	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		305-0563	1	208/240 Volt AC Input, 12 Volt DC - 300 Milliampere Output
			Accessory Groups 52,53,54		305-0568	1	208/240 Volt AC Input, 12 Volt DC - 2 Ampere Output
	860-0006	6	Voltage Codes 3,53		305-0570	1	208/240 Volt AC Input, 24 Volt DC - 2 Ampere Output
	860-0006	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		305-0569	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output
	860-0006	2	Accessory Group 55, Voltage Codes 3,53		305-0571	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output
47	RELAY, TIME DELAY ON TRANSFER - ACCESSORY GROUP 55			60	SENSOR PACKAGE, VOLTAGE - OPTIONAL WIRE IN (See Separate Groups for Components)		
	307-1144	1	Voltage Codes 3,4,5D,7,53,54,55D,57		300-1365	1	Over or Under Voltage (120 Volt, 1 Phase)
	307-1162	1	Voltage Codes 4,54X		300-1366	1	Over and Under Voltage (120 Volt, 1 Phase)
	307-1424	1	Voltage Codes 9,59X				
48	MOUNTING PACKAGE - RELAY						
	301-3315	1	Accessory Group 54				
	301-3315	2	Accessory Group 55				
49	RELAY, START-STOP - ACCESSORY GROUPS 51,52,53						
	307-1081	1	Voltage Codes 3,5D,7,53,55D,57				
	307-1081	1	Voltage Codes 4,54				



Power Generation

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RELAY TYPE ACCESSORY PANEL ACCESSORY GROUPS 51,52,53,54,55

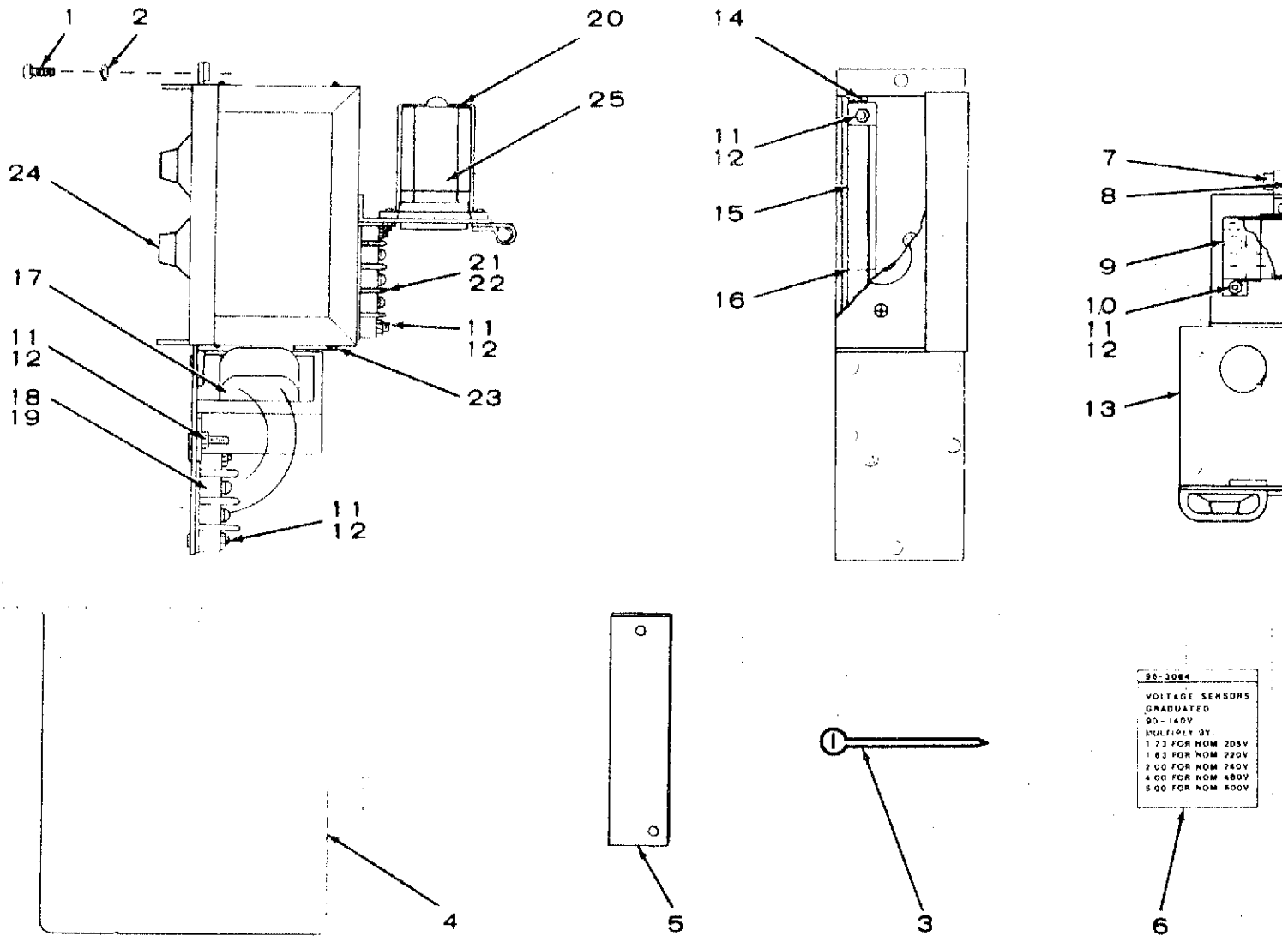
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-1367	1	Over or Under Voltage (208-240 Volt, 1 Phase)		300-1376	1	Over Voltage (480 Volt, 3 Phase)
	300-1368	1	Over and Under Voltage (208-240 Volt, 1 Phase)		300-1377	1	Over and Under Voltage (480 Volt, 3 Phase)
	300-1372	1	Under Voltage (208-240 Volt, 3 Phase)		300-1378	1	Under Voltage (600 Volt, 3 Phase)
	300-1373	1	Over Voltage (208-240 Volt, 3 Phase)		300-1379	1	Over Voltage (600 Volt, 3 Phase)
	300-1374	1	Over and Under Voltage (208-240 Volt, 3 Phase)		300-1380	1	Over and Under Voltage (600 Volt, 3 Phase)
	300-1369	1	Under Voltage (220 Volt, 3 Phase)				
	300-1370	1	Over Voltage (220 Volt, 3 Phase)				
	300-1371	1	Over and Under Voltage (220 Volt, 3 Phase)				
	300-1375	1	Under Voltage (480 Volt, 3 Phase)				

- * - Parts Included in 333-0923 Wiring Harness.
- Δ - Parts Included in 338-0921 Wiring Harness.
- † - Parts Included in 338-0930 Wiring Harness.
- £ - Parts Included in 338-0922 Wiring Harness.
- # - Parts Included in 338-1058 Wiring Harness.
- - Parts Included in 338-1091 Wiring Harness.

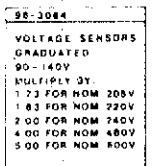
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (SINGLE PHASE)

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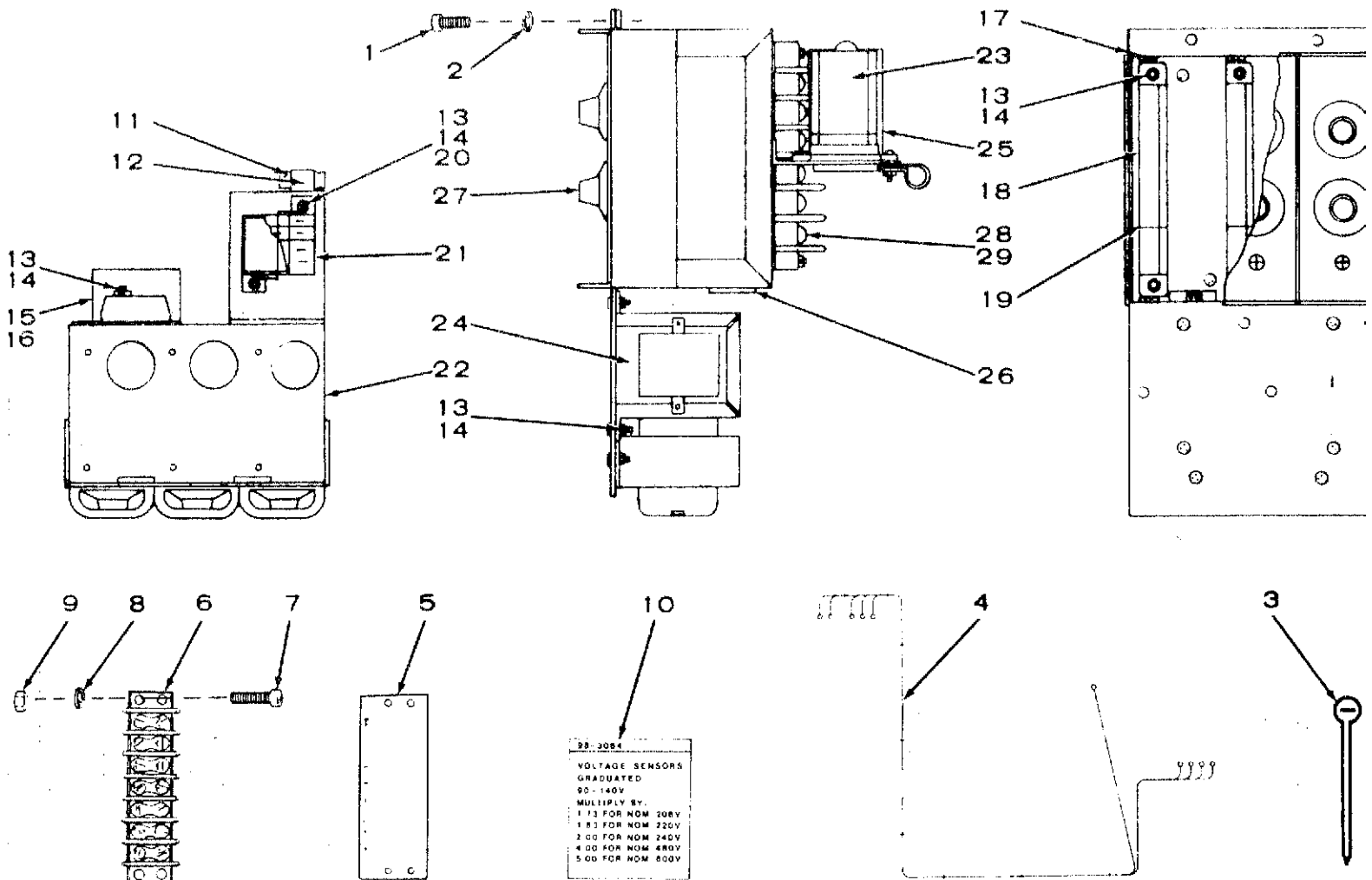
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)		
	300-1365	1	Over or Under (1)
	300-1366	1	Over and Under (1)
	300-1367	1	Over or Under (3)
	300-1368	1	Over and Under (3)
1	812-0061	3	Screw, Machine - Round Head (#6-32 x 3/8")
2	853-0003	3	Washer, Lock - ET (#6)
3	332-0942	6	Tie, Cable
4	338-1004	1	Harness, Wiring
5	301-4088	1	Plate, Cover (Packages with Over or Under Voltage Sensors)
6	98-3084	1	Decal, Voltage Sensors Graduated Voltage
7	356-0067	1	Capacitor Assembly (Includes Terminal and Leads)
8	332-1414	1	Clamp, Loop

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	323-0765	1	Socket, Relay
10	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")
11	860-0006	10	Nut, Hex - Machine (#6-32)
12	853-0003	10	Washer, Lock - ET (#6)
13	301-4067	1	Rack, Chassis
14	323-0814	2	Guide, Printed Circuit Board
15	332-2107	1	Housing, Printed Circuit Board Terminal
16	332-2114	1	Plug, Keying
17	TRANSFORMER		
	315-0360	1	120 Volt, 1 Phase
	315-0361	1	208-240 Volt, 1 Phase
18	332-1937	1	Block, Terminal
19	332-1949	1	Strip, Marker
20	307-1157	1	Spring, Relay Hold-down
21	332-0611	1	Block, Terminal
22	332-1948	1	Strip, Marker
23	331-0102	1	Bushing, Snap
24	300-0780	1	Module, Voltage Sensor (See Separate Group for Components)
25	307-1131	1	Relay



VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)		
	300-1372	1	Under Voltage - 4,5D Volt, 3 Phase
	300-1373	1	Over Voltage - 4,5D Volt, 3 Phase
	300-1374	1	Over and Under Voltage - 4,5D Volt, 3 Phase
	300-1369	1	Under Voltage - 4, 3 Phase
	300-1370	1	Over Voltage - 220 Volt, 3 Phase
	300-1371	1	Over and Under Voltage - 4, 3 Phase
	300-1375	1	Under Voltage - 4X, 3 Phase
	300-1376	1	Over Voltage - 4X, 3 Phase
	300-1377	1	Over and Under Voltage - 4X, 3 Phase
	300-1378	1	Under Voltage - 9X, 3 Phase
	300-1379	1	Over Voltage - 9X, 3 Phase
	300-1380	1	Over and Under Voltage - 9X, 3 Phase

1 SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	6	Under or Over Sensor Package
	812-0061	12	Over and Under Sensor Package
2	WASHER, LOCK - ET (#6)		
	853-0003	6	Under or Over Sensor Package
	853-0003	12	Over and Under Sensor Package
3	332-0942	9	Tie, Cable
4	HARNESS, WIRING		
	338-1005	1	220 Volt, 3 Phase
	338-1006	1	208-240, 480, 600 Volt, 3 Phase
5	332-1951	1	Strip, Marker
6	332-1952	1	Block, Terminal
7	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")
8	856-0001	2	Washer, Lock - EIT (#6)
9	860-0006	2	Nut, Hex - Machine (#6-32)
10	98-3084	1	Decal, Voltage Sensors Graduated Voltage
11	CAPACITOR ASSEMBLY (Includes Leads and Terminals) NOTE: Sensor Packages with Over and Under Sensors use one of each capacitors)		
	356-0071	1	Over Voltage
	356-0067	1	Under Voltage

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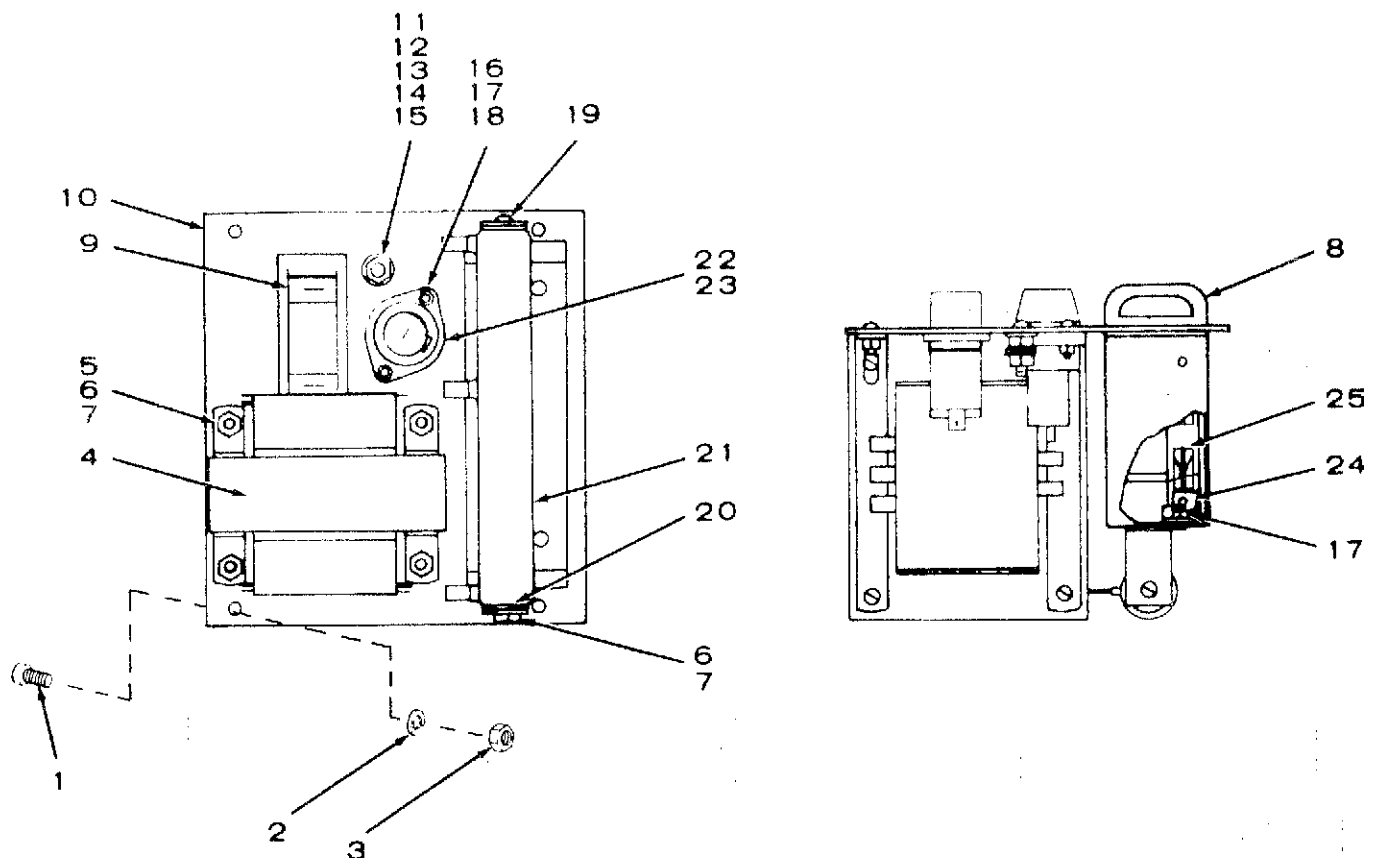
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	CLAMP, LOOP 332-1414	1	Over or Under Voltage Sensors		323-0765	2	Over and Under Voltage Sensors
	332-1414	2	Over and Under Voltage Sensors	22	RACK, CHASSIS 301-4068	1	Over or Under Voltage Sensors
13	NUT, HEX - MACHINE (#8-32) 860-0006	16	Over or Under Voltage Sensors		301-4068	2	Over and Under Voltage Sensors
	860-0006	32	Over and Under Voltage Sensors	23	RELAY, 24 VOLT 307-1131	1	Over or Under Voltage Sensors
14	WASHER, LOCK - ET (#6) 853-0003	16	Over or Under Voltage Sensors		307-1131	2	Over and Under Voltage Sensors
	853-0003	32	Over and Under Voltage Sensors	24	TRANSFORMER		Over or Under Voltage Sensors
15	BLOCK, TERMINAL 332-1541	1	Over or Under Voltage Sensors		315-0361	1	4,5D, 3 Phase
	332-1541	2	Over and Under Voltage Sensors		315-0362	1	4X, 3 Phase
16	STRIP, MARKER 332-1950	1	Over or Under Voltage Sensors		315-0363	1	9X, 3 Phase
	332-1950	1	Over and Under Voltage Sensors		315-0361	2	4,5D, 3 Phase
17	GUIDE, PRINTED CIRCUIT BOARD 323-0814	1	Over or Under Voltage Sensors		315-0362	2	4X, 3 Phase
	323-0814	2	Over and Under Voltage Sensors		315-0363	2	9X, 3 Phase
18	HOUSING, PRINTED CIRCUIT BOARD TERMINAL 332-2107	3	Over or Under Voltage Sensors	25	SPRING, RELAY HOLDDOWN 307-1157	1	Over or Under Voltage Sensors
	332-2107	6	Over and Under Voltage Sensors		307-1157	2	Over and Under Voltage Sensors
19	PLUG, KEYING 332-2114	3	Over or Under Voltage Sensor	26	BUSHING, SNAP 331-0102	3	Over or Under Voltage Sensors
	332-2114	6	Over and Under Voltage Sensor		331-0102	6	Over and Under Voltage Sensors
20	SCREW, MACHINE - ROUND HEAD (#6-32 x 5/8") 812-0065	2	Over or Under Voltage Sensor	27	MODULE, VOLTAGE SENSOR (See Separate Group for Components) 300-0780	3	Over or Under Voltage Sensors
	812-0065	4	Over and Under Voltage Sensor		300-0780	6	Over and Under Voltage Sensors
21	SOCKET, RELAY 323-0765	1	Over or Under Voltage Sensors	28	332-0765	1	Strip, Terminal - Over Voltage Sensors - 4
				29	815-0122	1	Screw, Machine - Hex Head (#6-32 x 1/2") - Over Voltage Sensors - 4

BATTERY CHARGER (2 AMPERE) PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55

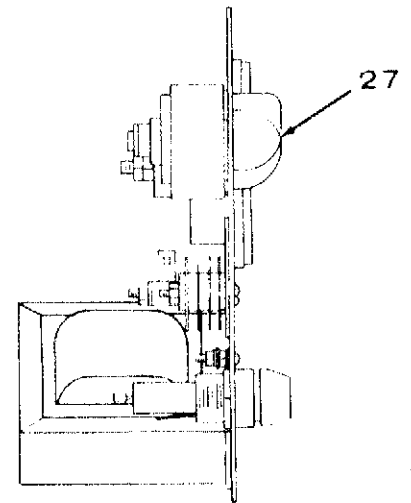
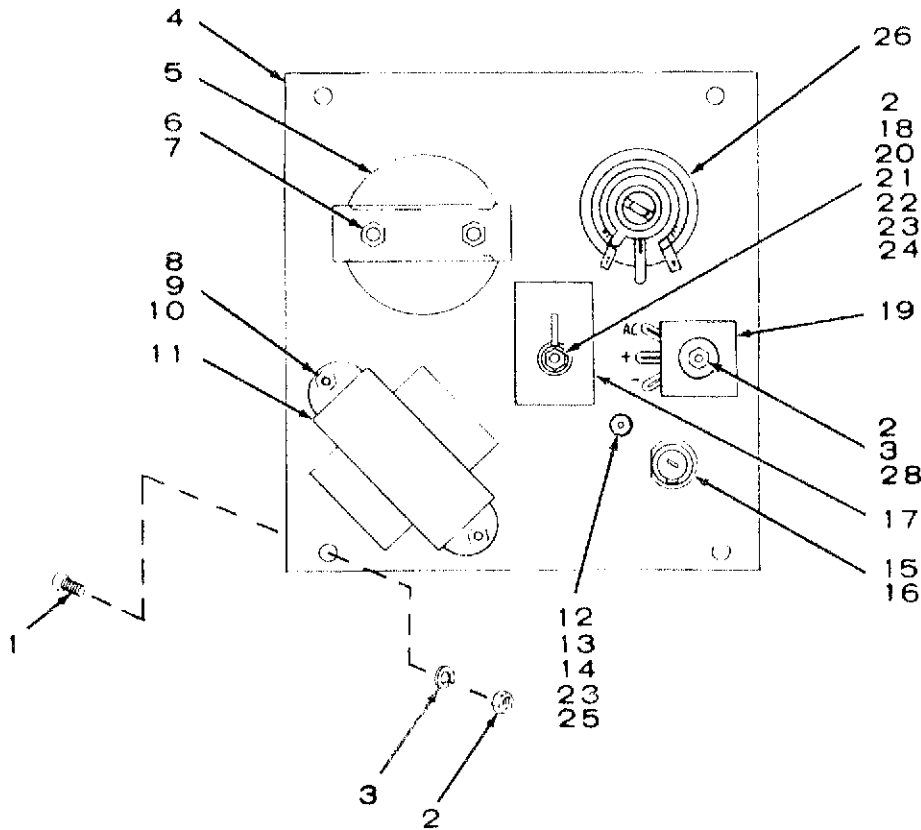
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
CHARGER PACKAGE, BATTERY (2 Ampere) - OPTIONAL WIRE IN				9	302-0807	1	Ammeter, DC
305-0568	1	1	3,4,5D AC Input, 12 Volt DC Output	10	301-4148	1	Rack, Chassis
305-0570	1	1	3,4,5D AC Input, 24 Volt DC Output	11	810-0081	1	Screw, Machine - Round Head Brass (#8-32 x 5/8")
305-0569	1	1	4X, 9X AC Input, 12 Volt DC Output	12	856-0002	1	Washer, Lock - EIT (#8)
305-0571	1	1	4X, 9X AC Input, 24 Volt DC Output	13	871-0007	2	Nut, Hex - Machine (#8-32)
1	812-0077	4	Screw, Machine - Round Head (#8-32 x 3/8")	14	853-0005	1	Washer, Lock - ET (#8)
2	853-1005	4	Washer, Lock - ET (#8)	15	526-0048	1	Washer, Flat (.12" ID x 3/8" OD x 1/32" Thk)
3	860-0008	4	Nut, Hex - Machine (#8-32)	16	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
4	315-0379	1	Transformer, Battery Charger	17	853-0003	4	Washer, Lock - ET (#6)
5	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16")	18	860-0006	4	Nut, Hex - Machine (#6-32)
6	853-0008	5	Washer, Lock - ET (#10)	19	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2")
7	870-0053	5	Nut, Hex - Machine (#10-32)	20	304-0006	2	Washer, Centering
8	MODULE, BATTERY CHARGER (See Separate Groups for Components)			21	353-0046	1	Resistor (6-Ohm, 75 Watt)
300-0793	1	1	12 Volt DC Output	22	321-0178	1	Holder, Fuse
300-0794	1	1	24 Volt DC Output	23	321-0180	1	Fuse (1 Ampere, 600 Volt)
				24	332-2107	1	Housing, Printed Circuit Board
				25	323-0814	2	Guide, Printed Circuit Board
					332-2114	1	Plug, Keying

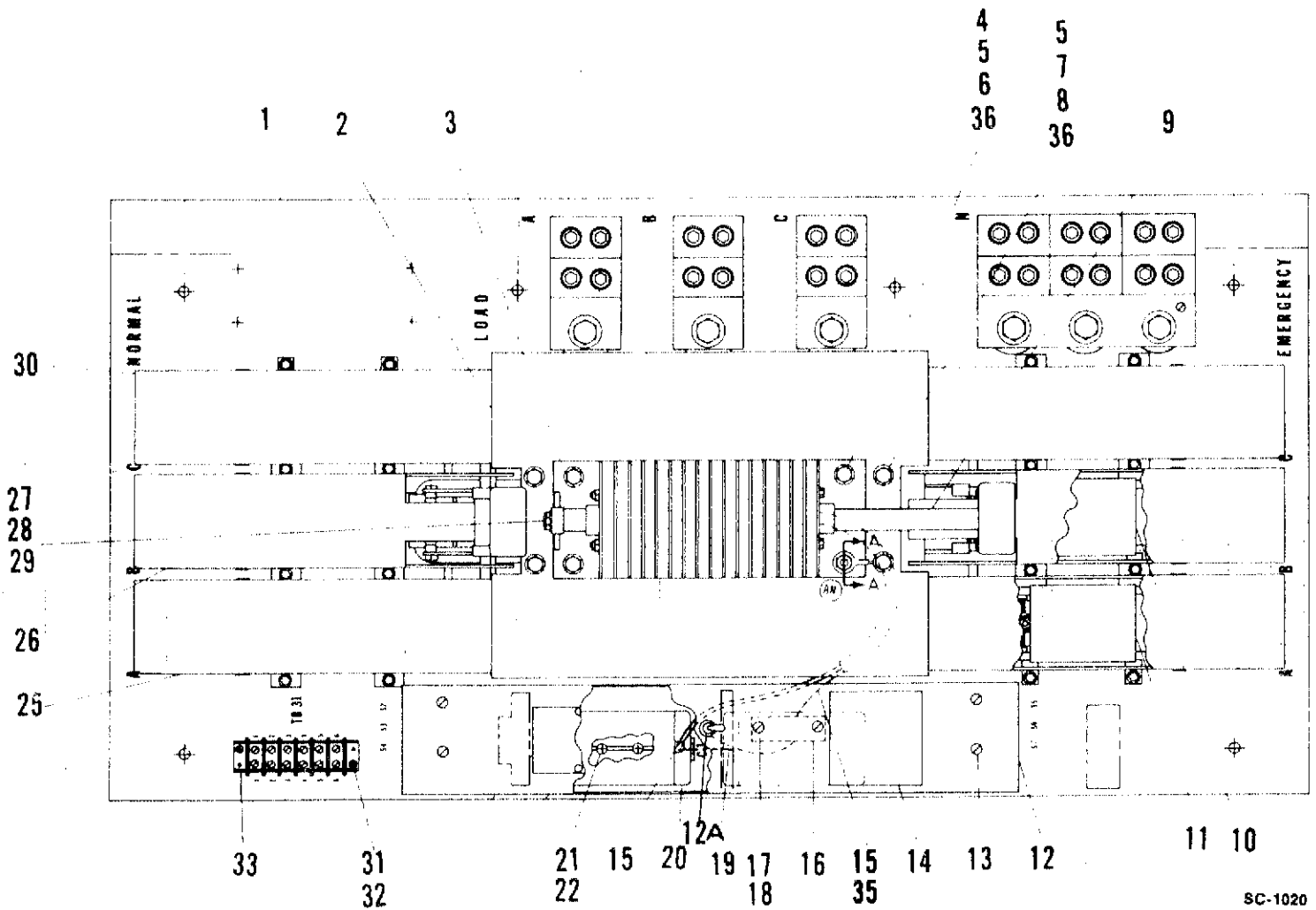
BATTERY CHARGER (300 MILLIAMPERE) PACKAGE (OPTIONAL WIRE IN) - ACCESSORY GROUPS 51,52,53,54,55

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CHARGER PACKAGE, BATTERY (300 Milliampere) - OPTIONAL WIRE IN						
	305-0562	1	1 AC Input,	12	810-0081	1	Screw, Machine - Round Head Brass (#8-32 x 5/8")
			12 Volt DC Output	13	856-0002	1	Washer, Lock - ET (#8)
	305-0563	1	3,4,5D Volt AC Input,	14	853-0005	1	Washer, Lock - ET (#8)
			12 Volt Output	15	321-0104	1	Holder, Fuse
1	812-0061	4	Screw, Machine - Round Head (#6-32 x 3/8")	16	321-0067	1	Fuse (1 Ampere)
2	860-0006	4	Nut, Hex - Machine (#6-32)	17	304-0292	1	Insulator, Resistor
3	853-0003	4	Washer, Lock - ET (#6)	18	812-0072	1	Screw, Machine - Round Head (#6-32 x 1-3/4")
4	301-4106	1	Panel, Battery Charger	19	305-0129	1	Rectifier, Full Wave
5	302-0489	2	Milliammeter, DC	20	508-0161	1	Insulator, Resistor
6	871-0010	4	Nut, Hex - Machine (#10-32)	21	304-0538	1	Resistor, Fixed
7	526-0049	4	Washer, Flat - Brass (.200" ID x 7/16" OD x 1/32" Thk)	22	508-0015	1	Washer, Fibre
8	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")	23	526-0048	2	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
9	860-0006	4	Nut, Hex - Machine (#6-32)	24	850-0020	1	Washer, Lock (#6)
10	853-0003	3	Washer, Lock - ET (#6)	25	871-0007	2	Nut, Hex - Machine (#8-32)
11	TRANSFORMER			26	303-0117	1	Rheostat
	315-0009	1	1 AC Input	27	303-0076	1	Knob
	315-0010	1	3,4,5D AC Input	28	812-0068	1	Screw, Machine - Round Head (#6-32 x 1")

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)



SC-1020

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)

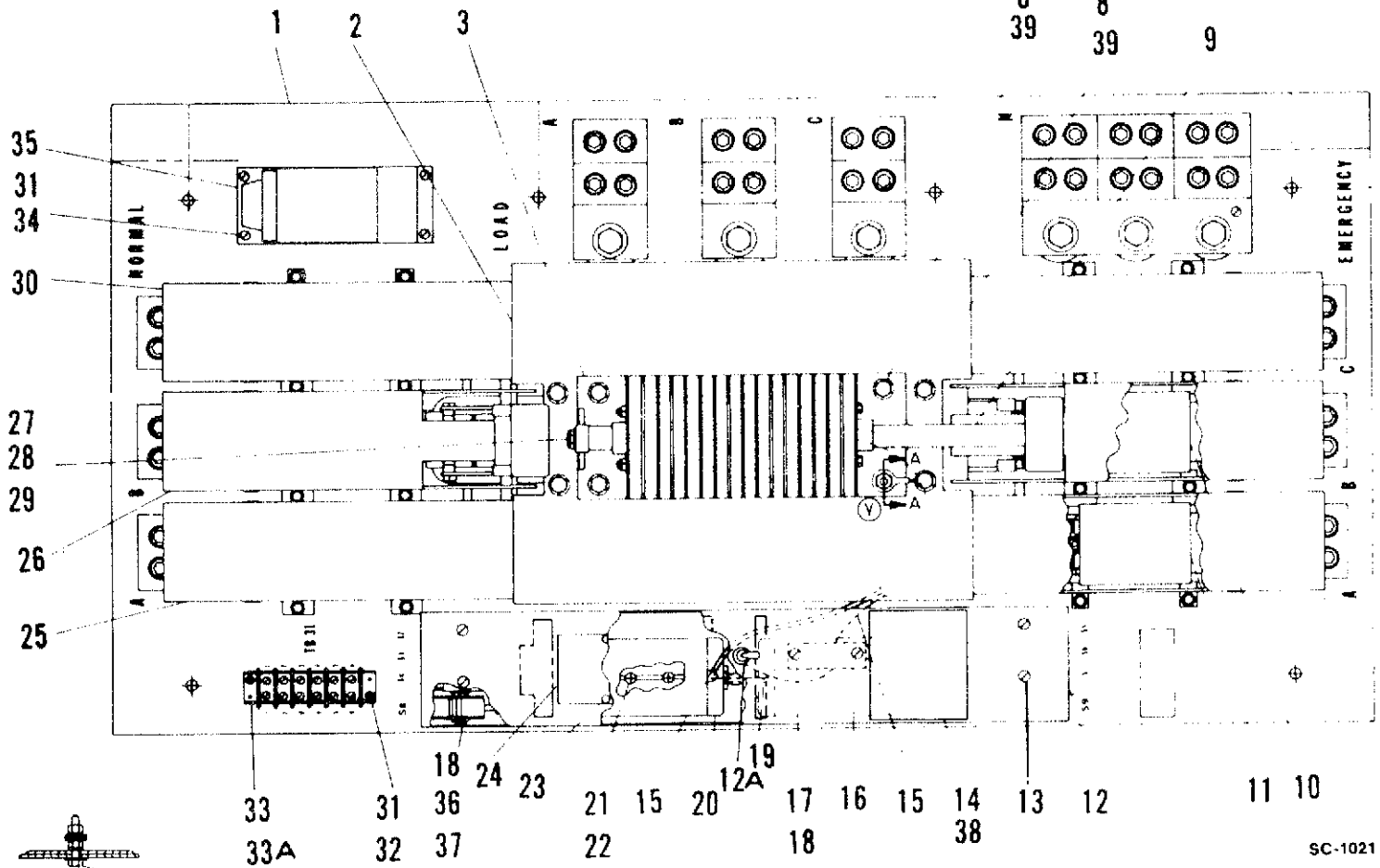
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)						
			2 Pole				
			Standard				
306-1170	1		110/120 Volt,	7	800-0187	4	Screw, Cap - Hex Head (1/4-20 x 5")
			50/60 Hertz	8	306-0602	4	Spacer, Actuator Mounting
306-1171	1		208/220/240 Volt,	9	306-0642	1	Rod, Actuator
			50/60 Hertz	10	306-1038	2	Barrier, Arc Chute - 3 Pole, 3 Phase Units
306-1172	1		347 Volt, 50/60 Hertz	11	306-1041	4	Barrier, Arc Chute
306-1173	1		440/480 Volt,	12	306-0641	1	Cover Assembly, Auxiliary Switch (Includes Toggle Switch and Leads)
			50/60 Hertz				
			Rear Connected	12A	308-0406	1	Switch, Toggle (Part of 306-0641 Cover Assembly)
306-1174	1		110/120 Volt,				
			50/60 Hertz				
306-1175	1		208/220/240 Volt,	13	815-0364	1	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
			50/60 Hertz	14	98-3491	1	Label, Instructions
306-1176	1		347 Volt, 50/60 Hertz	15	332-2211	3	Terminal, Receptacle
306-1177	1		440/480 Volt, 50/60 Hertz	16	BREAKER, CIRCUIT		
			3 Pole		320-0613	1	110/120 Volt, 50/60 Hertz
			Standard				
306-0884	1		110/120 Volt, 50/60 Hertz		320-0611	1	208/220/240 Volt, 50/60 Hertz
306-0885	1		208/220/240 Volt, 50/60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
306-0886	1		347 Volt, 50/60 Hertz		320-0609	1	440/480 Volt, 50/60 Hertz
306-0887	1		440/480 Volt, 50/60 Hertz	17	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
			Rear Connected	18	870-0183	2	Nut, Hex - W/ET (#6-32)
306-0890	1		110/120 Volt, 50/60 Hertz	19	336-2787	1	Leads - 347/440/480 Volt, 50/60 Hertz
306-0891	1		208/220/240 Volt, 50/60 Hertz	20	CAPACITOR		
306-0892	1		347 Volt, 50/60 Hertz		312-0202	1	110/120 Volt, 50/60 Hertz
306-0893	1		440/480 Volt, 50/60 Hertz		312-0218	1	208/220/240 Volt, 50/60 Hertz
					312-0205	2	347 Volt, 50/60 Hertz
					312-0204	2	440/480 Volt, 50/60 Hertz
1	SWITCHING ASSEMBLY (See Separate Group for Components)			21	SCREW, MACHINE - FLAT HEAD (#10-32 x 7/8")		
					815-0165	2	110/120/208/220/240 Volt, 50/60 Hertz
306-1144	1		2 Pole, 1 Phase - Standard		815-0165	4	347/440/480 Volt, 50/60 Hertz
306-1145	1		2 Pole, 1 Phase - Rear Connected	22	WASHER, LOCK - ET (#10)		
					855-0008	2	110/120/208/220/240 Volt, 50/60 Hertz
306-0826	1		3 Pole, 3 Phase - Standard		855-0008	4	347/440/480 Volt, 50/60 Hertz
306-0827	1		3 Pole, 3 Phase - Rear Connected	25	306-0331	2	Cover, Contact (LH)
				26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units)
2	306-0804	1	Plate, Motor Mounting	27	306-1385	2	Rod End Assembly - Actuator
3	ACTUATOR, LINEAR			28	800-0032	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
				29	850-0045	2	Washer, Lock - Spring (5/16")
306-0838	1		110/120 Volt, 50/60 Hertz	30	306-0333	2	Cover, Contact (RH)
306-0843	1		208/220/240 Volt, 50/60 Hertz	31	854-0007	2	Washer, Lock ± T
306-0842	1		347 Volt, 50/60 Hertz	32	812-0084	2	Screw, Machine - Round Head
306-0841	1		440/480 Volt, 50/60 Hertz	33	338-1097	1	Harness, Wiring
4	800-0004	4	Screw, Cap - Hex Head	35	332-0942	10	Tie, Cable
5	WASHER, LOCK - SPRING (1/4")			36	526-0018	10	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
				37	800-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
850-0040	8		2 Pole, 1 Phase				
850-0040	9		3 Pole, 3 Phase				
6	NUT, HEX (1/4-20)						
862-0001	4		2 Pole, 1 Phase				
862-0001	5		3 Pole, 3 Phase				

NOTE: To determine correct voltage, refer to your nameplate and model identification in front of manual.

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE PROGRAMMED TRANSITION)

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SC-1021

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE PROGRAMMED TRANSITION)

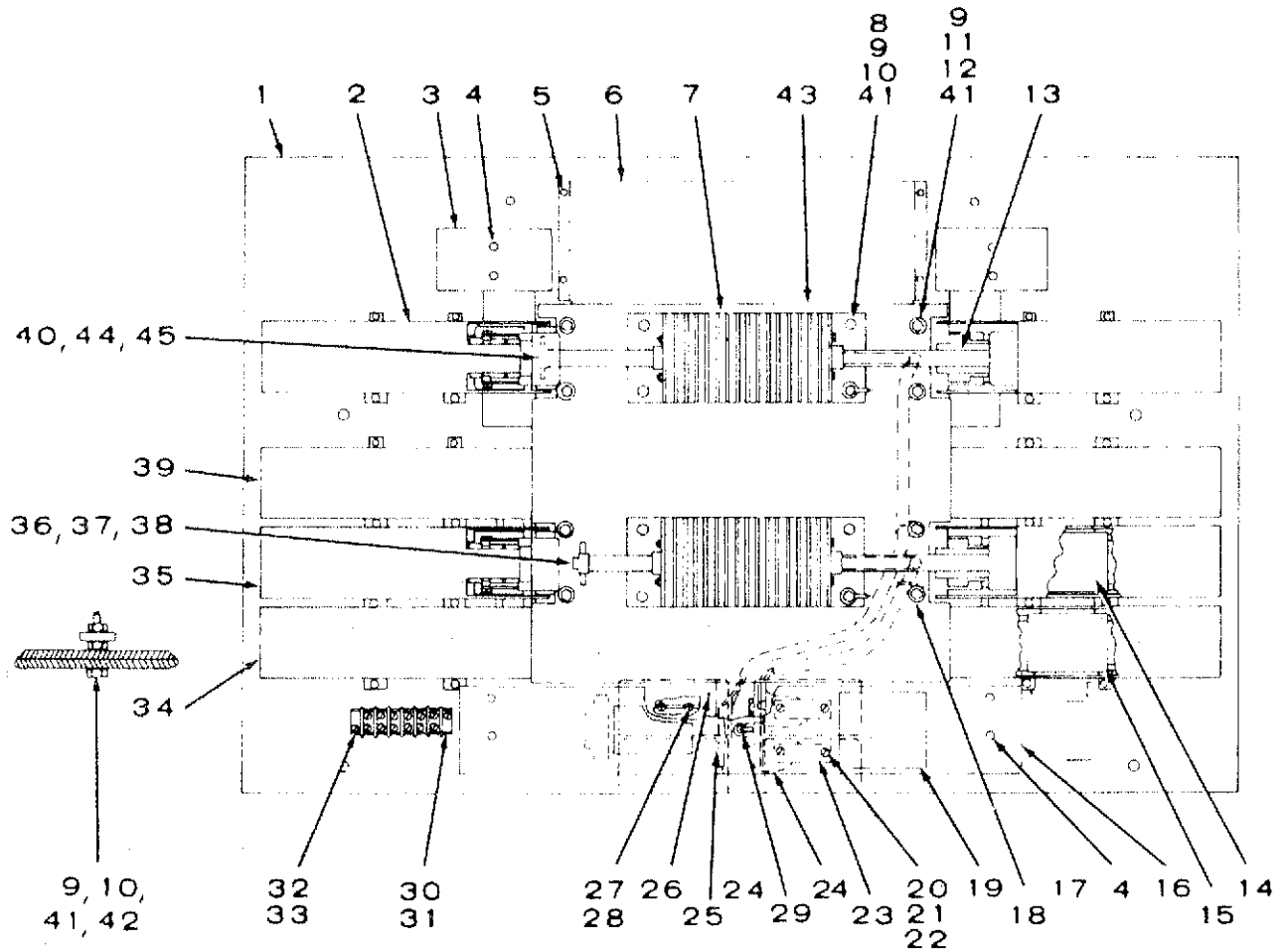
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)			14	98-3491	1	Label, Instructions
			2 Pole	15	332-2211	3	Terminal, Receptacle
			Standard	16	BREAKER, CIRCUIT		
306-1249	1		208/220 Volt, 50/60 Hertz		320-0611	1	208/220/240 Volt, 50/60 Hertz
306-1249	1		240 Volt, 60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
306-1250	1		240 Volt, 50 Hertz		320-0609	1	440/480 Volt, 50/60 Hertz
306-1251	1		347 Volt, 50/60 Hertz				
306-1252	1		440/480 Volt, 50/60 Hertz	17	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
			Rear Connected	18	870-0183	6	Nut, Hex W/ET (#6-32)
306-1254	1		208/220 Volt, 50/60 Hertz	19	336-2787	1	Lead Assembly - 347/440/480 Volt, 50/60 Hertz
306-1254	1		240 Volt, 60 Hertz	20	CAPACITOR		
306-1255	1		240 Volt, 50 Hertz		312-0218	1	208/220/240 Volt, 50/60 Hertz
306-1256	1		347 Volt, 50/60 Hertz		312-0205	2	347 Volt, 50/60 Hertz
306-1257	1		440/480 Volt, 50/60 Hertz		312-0204	2	440/480 Volt, 50/60 Hertz
			3 Pole				
			Standard	21	SCREW, MACHINE - FLAT (#10-32 x 7/8")		
306-1239	1		208/220 Volt, 50/60 Hertz		815-0165	2	208/220/240 Volt, 50/60 Hertz
306-1239	1		240 Volt, 60 Hertz		815-0165	4	347/440/480 Volt, 50/60 Hertz
306-1240	1		240 Volt, 50 Hertz	22	WASHER, LOCK - ET (#10)		
306-1241	1		347 Volt, 50/60 Hertz		855-0008	2	208/220/240 Volt, 50/60 Hertz
306-1242	1		440/480 Volt, 50/60 Hertz		855-0008	4	347/440/480 Volt, 50/60 Hertz
			Rear Connected	25	306-0331	2	Cover, Contact (LH)
306-1244	1		208/220 Volt, 50/60 Hertz	26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units
306-1244	1		240 Volt, 60 Hertz	27	306-1385	2	Rod End, Actuator
306-1245	1		240 Volt, 50 Hertz	28	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
306-1246	1		347 Volt, 50/60 Hertz	29	850-0045	2	Washer, Lock - Spring (5/16")
306-1247	1		440/480 Volt, 50/60 Hertz	30	306-0333	2	Cover, Contact (RH)
1	SWITCH ASSEMBLY (See Separate Group for Components)			31	854-0007	6	Washer, Lock - IT (#8)
306-1144	1		2 Pole, 1 Phase - Standard	32	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
306-1145	1		2 Pole, 1 Phase - Rear Connected	33	338-1115	1	Harness, Wiring (Includes Terminal Block)
306-0826	1		3 Pole, 3 Phase - Standard	33A	332-1541	1	Block, Terminal (Part of Wiring Harness #338-1115)
306-0827	1		3 Pole, 3 Phase - Rear Connected	34	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
2	306-0804	1	Plate, Motor Mounting	35			Relay Assembly (Consists of Indented Parts)
3	ACTUATOR, LINEAR				301-4577	1	Bracket, Relay Mounting
306-0843	1		208/220/240 Volt, 50/60 Hertz				Relay, Time Delay (Includes Mounting Hardware)
306-0842	1		347 Volt, 50/60 Hertz		307-1628	1	208/220 Volt, 50/60 Hertz
306-0841	1		440/480 Volt, 50/60 Hertz		307-1628	1	240 Volt, 60 Hertz
4	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")		307-1629	1	240 Volt, 50 Hertz
5	850-0040	9	Washer, Lock - Spring (1/4")		307-1630	1	347 Volt, 50/60 Hertz
6	862-0001	5	Nut, Hex (1/4-20)		307-1631	1	440/480 Volt, 50/60 Hertz
7	800-0187	4	Screw, Cap - Hex Head (1/4-20 x 5")				
8	306-0602	4	Spacer, Actuator Mounting	36	309-0297	2	Switch, Snap Action
9	306-0642	1	Rod, Actuator	37	306-0281	4	Barrier, Switch
10	306-1038	2	Barrier, Arc Chute - 3 Pole, 3 Phase Units	38	332-0942	10	Tie, Cable
11	306-1041	4	Barrier, Arc Chute	39	526-0018	10	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
12	306-0641	1	Cover Assembly (Includes Toggle Switch)	40	800-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
12A	308-0406	1	Switch, Toggle (Part of 306-0641 Cover Assembly)				
13	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")				

NOTE: To determine correct voltage, refer to your nameplate

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TRANSFER SWITCH ASSEMBLY (4 POLE)



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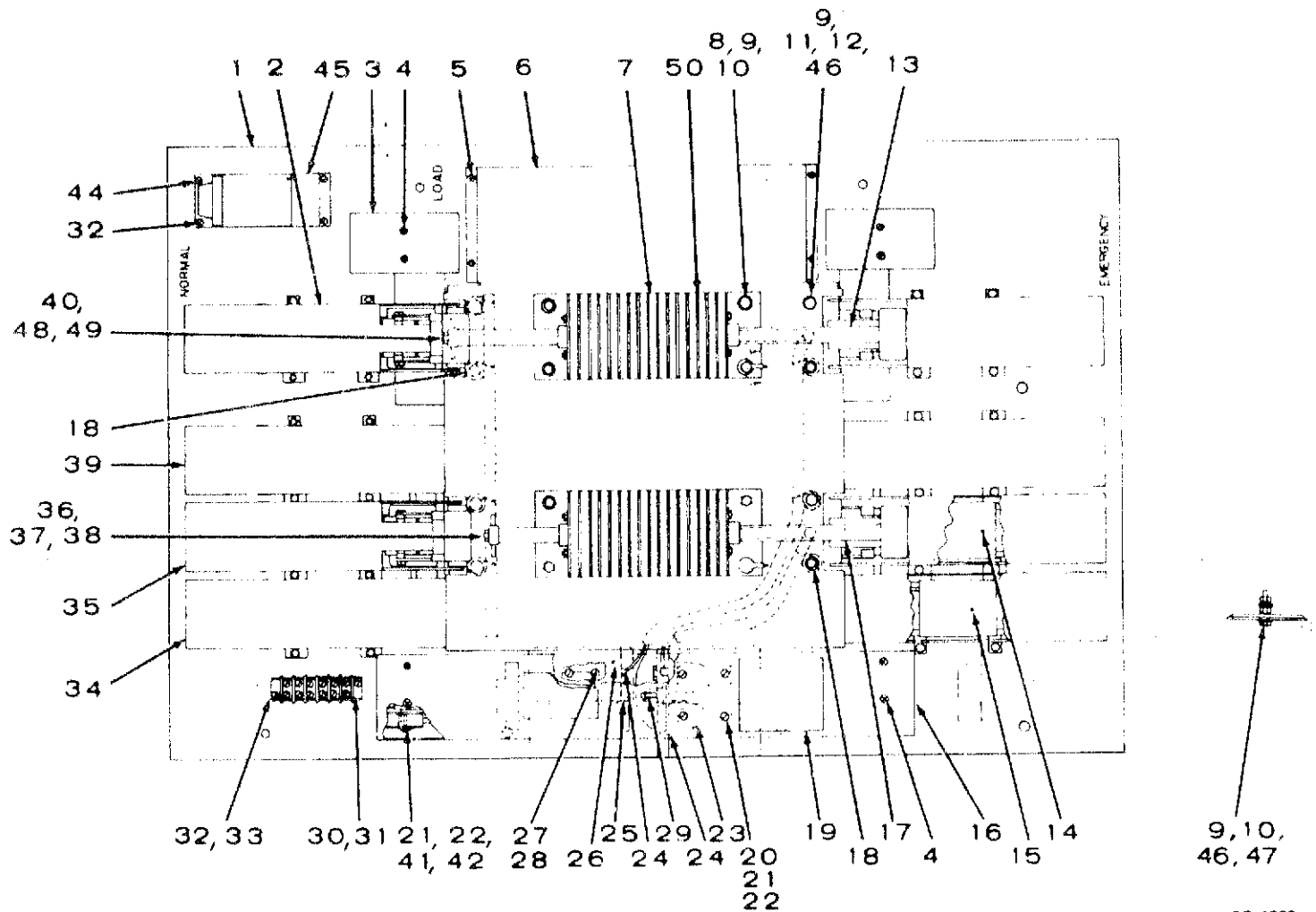
TRANSFER SWITCH ASSEMBLY (4 POLE)

OT _____ - ☐ / _____

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)				320-0608	2	347 Volt, 50/60 Hertz
			Standard		320-0609	2	440/480 Volt, 50/60 Hertz
306-1525	1		208/220/240 Volt, 50/60 Hertz	24	332-2211	6	Terminal
306-1526	1		347 Volt, 50/60 Hertz	25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz Units
306-1527	1		440/480 Volt, 50/60 Hertz				
			Rear Connected	26	CAPACITOR		
306-1528	1		208/220/240 Volt, 50/60 Hertz	312-0218	2		208/220/240 Volt, 50/60 Hertz
306-1529	1		347 Volt, 50/60 Hertz	312-0205	4		347 Volt, 50/60 Hertz
306-1530	1		440/480 Volt, 50/60 Hertz	312-0204	4		440/480 Volt, 50/60 Hertz
1	SWITCHING ASSEMBLY (See Separate Group for Components)			27	SCREW, MACHINE - FLAT HEAD X RECESSED (#10-32 x 7/8")		
	306-1493	1	Standard	815-0165	4		208/220/240 Volt, 50/60 Hertz
	306-1494	1	Rear Connected	815-0165	8		347/440/480 Volt, 50/60 Hertz
2	306-1433	2	Cover, Contact				
3	306-1430	2	Cover, Auxiliary Switch	28	WASHER, LOCK - ET (#10)		
4	815-0364	8	Screw, Machine - Round Head x Recessed W/ET (#10-32 x 1/2")	855-0008	4		208/220/240 Volt, 50/60 Hertz
5	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")	855-0008	8		347/440/480 Volt, 50/60 Hertz
6	306-1434	1	Cover, Load	29	308-0406	1	Switch, Auxiliary
7	ACTUATOR, LINEAR			30	338-1150	1	Harness, Wiring (Includes Terminal Block)
	306-0843	2	208/220/240 Volt, 50/60 Hertz	31	332-1541	1	Block, Terminal (Part of Wiring Harness)
	306-0842	2	347 Volt, 50/60 Hertz	32	854-0007	2	Washer, Lock - IT (#8)
	306-0841	2	440/480 Volt, 50/60 Hertz	33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
8	800-0004	6	Screw, Cap - Hex Head (1/4-20 x 5/8")	34	306-0331	2	Cover, Contact (LH)
9	850-0040	20	Washer, Lock - Spring	35	306-0332	2	Cover, Contact
10	862-0001	10	Nut, Hex (1/4-20)	36	306-1385	2	Rod End, Actuator
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")	37	850-0045	2	Washer, Lock - Spring (5/16")
12	306-0602	8	Spacer, Actuator Mounting	38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/6")
13	306-1475	1	Rod, Actuator	39	306-0333	2	Cover, Contact (RH)
14	306-1038	2	Barrier, Arc Chute	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
15	306-1041	4	Barrier, Arc Chute	41	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
16	306-1580	1	Cover, Auxiliary Switch	42	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
17	306-1474	1	Rod Actuator	43	306-1432	1	Cover, Motor Mounting
18	332-0942	10	Tie, Cable	44	306-1647	2	Rod End, Actuator
19	98-3491	1	Label, Instructions	45	850-0050	2	Washer, Lock - Spring (3/8")
20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")				
21	853-0003	4	Washer, Lock - ET (#6)				
22	860-0006	4	Nut, Hex (#6-32)				
23	BREAKER, CIRCUIT						
	320-0611	2	208/220/240 Volt, 50/60 Hertz				

NOTE: To determine correct voltage, refer to your nameplate and model identification in front of manual.

TRANSFER SWITCH ASSEMBLY (4 POLE) - PROGRAMMED TRANSITION



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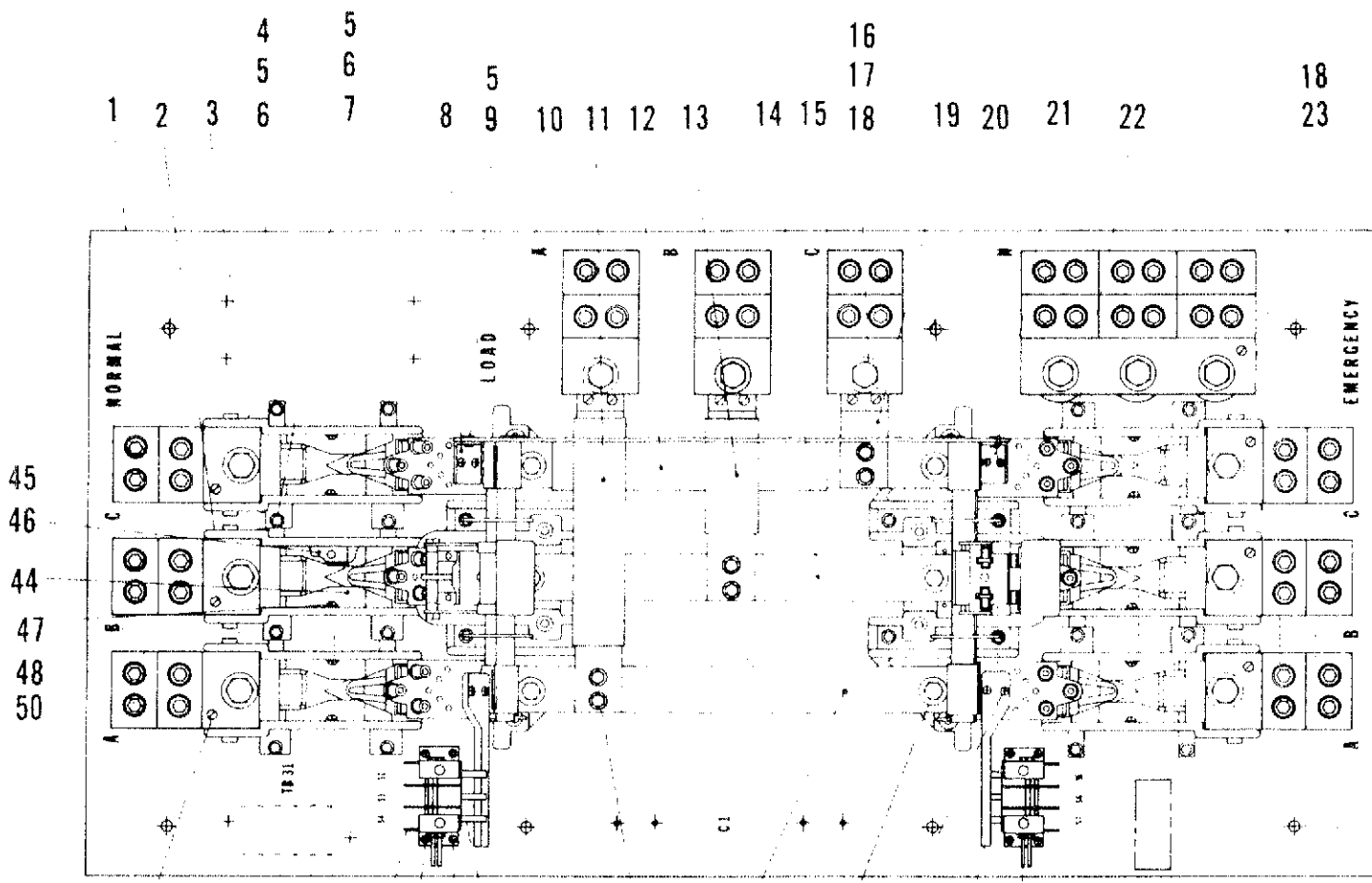
TRANSFER SWITCH ASSEMBLY (4 POLE) - PROGRAMMED TRANSITION

OT _ _ _ _ _ - ☐ / _ _ _ _ _

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
	SWITCH ASSEMBLY, TRANSFER (Complete)			26	CAPACITOR			
			Standard	312-0218	2	208/220/240 Volt,		
	306-1621	1	208/220 Volt, 50/60 Hertz	312-0205	4	347 Volt, 50/60 Hertz		
	306-1621	1	240 Volt, 60 Hertz	312-0204	4	440/480 Volt, 50/60 Hertz		
	306-1622	1	240 Volt, 50 Hertz					
	306-1623	1	347 Volt, 50/60 Hertz	27	SCREW MACHINE - FLAT HEAD X RECESSED (#10-32)			
	306-1624	1	440/480 Volt, 50/60 Hertz	815-0165	4	208/220/240 Volt,		
			Rear Connected			50/60 Hertz		
	306-1625	1	208/220 Volt, 50/60 Hertz	815-0165	8	347/440/480 Volt,		
	306-1625	1	240 Volt, 60 Hertz			50/60 Hertz		
	306-1626	1	240 Volt, 50 Hertz	28	WASHER, LOCK - ET COUNTERSUNK (#10)			
	306-1627	1	347 Volt, 50/60 Hertz	855-0008	4	208/220/240 Volt,		
	306-1628	1	440/480 Volt, 50/60 Hertz			50/60 Hertz		
1	SWITCHING ASSEMBLY (See Separate Group for Components)			855-0008	8	347/440/480 Volt,		
	306-1493	1	Standard			50/60 Hertz		
	306-1494	1	Rear Connected	29	308-0406	1	Switch, Toggle	
2	306-1433	2	Cover, Contact	30	338-1154	1	Harness, Wiring (includes	
3	306-1430	2	Cover, Auxiliary Switch			Terminal Block)		
4	815-0364	8	Screw, Machine - Round Head (#10-32 x 1/2")	31	332-1541	1	Block, Terminal (Part of	
5	812-0082	4	Screw, Machine - Round (#8-32 x 3/4")			Wiring Diagram)		
6	306-1434	1	Cover, Load	32	854-0007	6	Washer, Lock - IT (#8)	
7	ACTUATOR LINEAR			33	812-0084	2	Screw, Machine - Round Head	
	306-0843	2	208/220/240 Volt,			(#8-32 x 1")		
			50/60 Hertz	34	306-0331	4	Cover, Contact (LH)	
	306-0842	2	347 Volt, 50/60 Hertz	35	306-0332	2	Cover, Contact	
	306-0841	2	440/480 Volt, 50/60 Hertz	36	306-1385	2	Rod End Actuator	
8	800-0004	8	Screw, Cap - Hex Head (1/4-20 x 5/8")	37	850-0045	2	Washer, Lock - Spring	
9	850-0040	18	Washer, Lock - Spring (1/4")			(5/16")		
10	862-0001	10	Nut, Hex (1/4-20)	38	800-0030	2	Screw, Cap - Hex Head	
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")			(5/16-18 x 1-1/4")		
12	306-1978	8	Spacer, Actuator Mounting	40	800-0051	2	Screw, Cap - Hex Head	
13	306-1475	1	Rod, Actuator			(3/8-16 x 1-1/4")		
14	306-1038	2	Barrier, Arc Chute	41	306-0281	4	Barrier, Switch	
15	306-1041	4	Barrier, Arc Chute	42	309-0297	2	Switch, Snap Action	
16	306-1580	1	Cover, Auxiliary Switch	43	812-0082	4	Screw, Machine - Round Head	
17	306-1474	1	Rod, Actuator			(#8-32 x 3/4")		
18	332-0821	1	Tie, Cable	44	RELAY, TIME DELAY			
19	98-3491	1	Label, Instructions	307-1628	1	208/220 Volt, 50/60 Hertz		
20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")	307-1628	1	240 Volt, 60 Hertz		
				307-1629	1	240 Volt, 50 Hertz		
				307-1630	1	347 Volt, 50/60 Hertz		
				307-1631	1	440/480 Volt, 50/60 Hertz		
21	853-0003	8	Washer, Lock - ET (#6)					
22	860-0006	8	Nut, Hex (#6-32)	45	301-4577	1	Bracket, Relay Mounting	
23	BREAKER, CIRCUIT			46	526-0018	20	Washer, Flat (17/64" ID x	
	320-0611	2	208/220/240 Volt,			5/8" OD x 1/16" Thk)		
			50/60 Hertz	47	800-0009	2	Screw, Cap - Hex Head	
	320-0608	2	347 Volt, 50/60 Hertz			(1/4-20 x 1-1/2")		
	320-0609	2	440/480 Volt, 50/60 Hertz	48	850-0050	2	Washer, Lock - Spring	
24	332-2211	6	Terminal			(3/8")		
25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz	49	306-1647	2	Rod End, Actuator	
				50	306-1432	1	Cover, Motor Mounting	

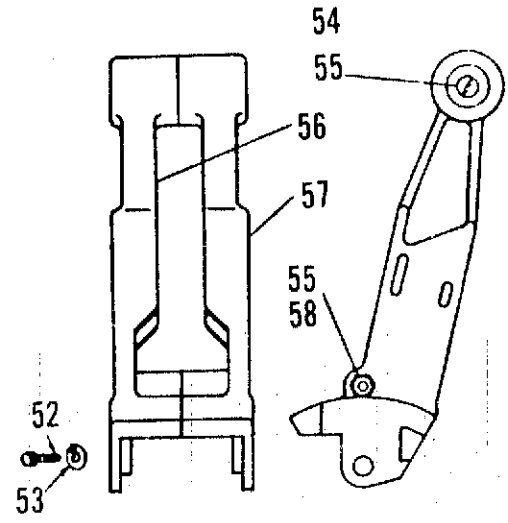
NOTE: To determine correct voltage, refer to your nameplate and model identification in front of manual.

SWITCHING ASSEMBLY (2 AND 3 POLE)



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- 39 38 37 36
- 18 49
- 32 18 29 28 25
- 33 30 31 26
- 34 51 27
- 35

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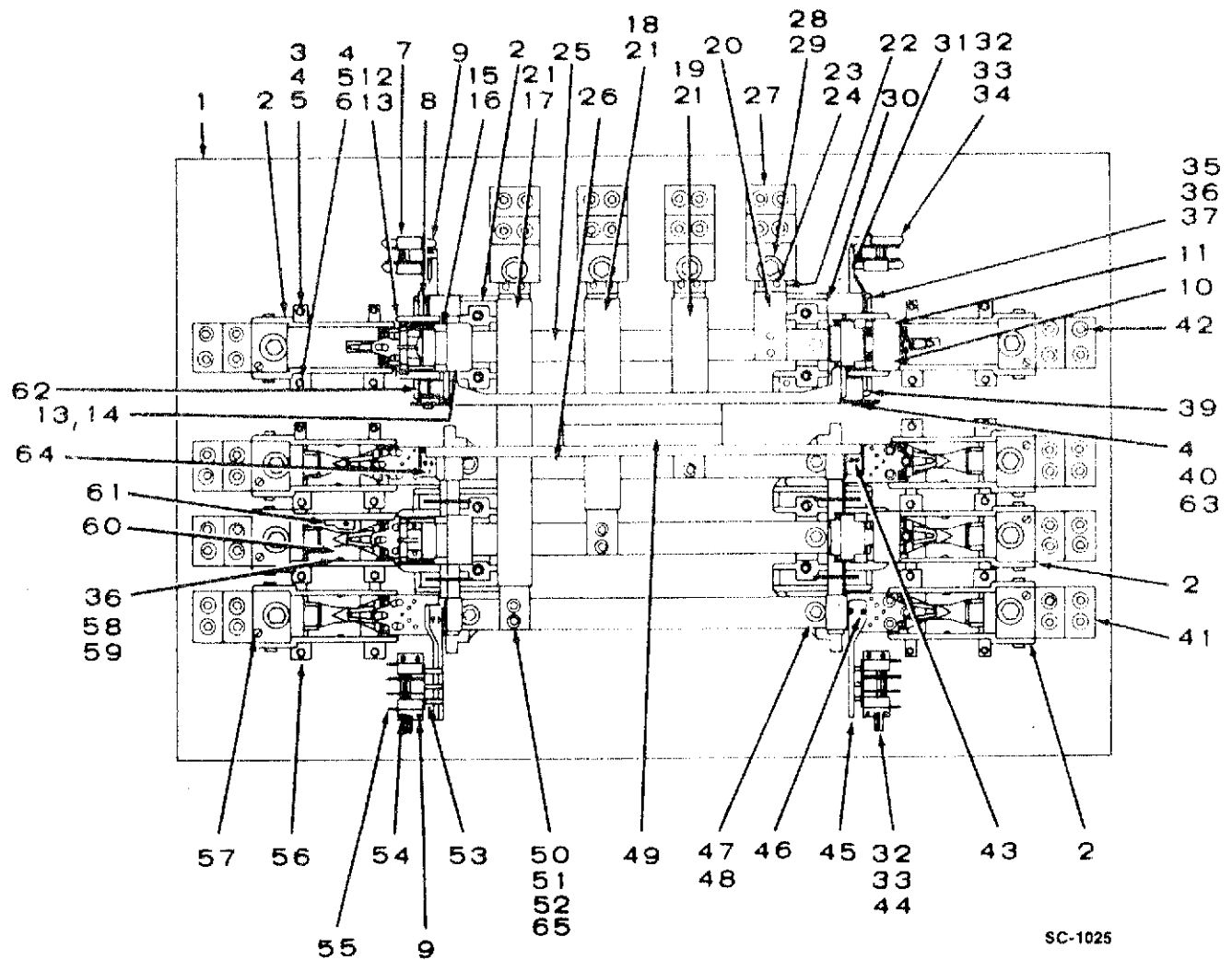


SWITCHING ASSEMBLY (2 AND 3 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)			25	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")
	306-1144	1	2 Pole, 1 Phase Standard	26	850-0020	4	Washer, Lock - Spring (#6)
	306-1145	1	Rear Connected	27	860-0005	4	Nut, Hex (#6-32)
	306-0826	1	3 Pole, 3 Phase Standard	28	306-0253	2	Lever
	306-0827	1	Rear Connected	29	815-0447	4	Screw, Machine - Round Head W/IT (#8-32 x 3/4")
1	BASE			30	SCREW, CAP - HEX HEAD (3/8-16 x 1-3/4")		
	306-1136	1	2 Pole, 1 Phase Standard	800-0053	4	2 Pole, 1 Phase	
	306-1137	1	Rear Connected	800-0053	6	3 Pole, 3 Phase	
	306-0527	1	3 Pole, 3 Phase Standard	31	WASHER, LOCK - SPRING (3/8")		
	306-0659	1	Rear Connected	851-0022	4	2 Pole, 1 Phase	
2	BLOCK ASSEMBLY - 3 POLE, 3 PHASE UNITS			851-0027	6	3 Pole, 3 Phase	
	306-1058	2	Standard	32	SCREW, CAP - HEX HEAD (1/4-20 x 1-1/2")		
	306-1062	2	Rear Connected	800-0009	4	2 Pole, 1 Phase	
3	BLOCK ASSEMBLY			800-0009	6	3 Pole, 3 Phase	
	306-1059	4	Standard	33	WASHER, LOCK - SPRING (1/4")		
	306-1063	4	Rear Connected	851-0027	4	2 Pole, 1 Phase	
4	SCREW, CAP - HEX HEAD (1/4-20 x 1")			851-0027	6	3 Pole, 3 Phase	
	800-0007	16	2 Pole, 1 Phase	34	WASHER, LOCK - SPRING (1/4")		
	800-0007	12	3 Pole, 3 Phase	850-0040	4	2 Pole, 1 Phase	
5	526-0018	26	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	850-0040	6	3 Pole, 3 Phase	
6	854-0014	24	Washer, Lock - IT (1/4")	35	NUT, HEX (3/8-16)		
7	SCREW, CAP - HEX HEAD (1/4-20 x 1-1/4")			862-1001	4	2 Pole, 1 Phase	
	800-0008	8	2 Pole, 1 Phase	862-1001	6	3 Pole, 3 Phase	
	800-0008	12	3 Pole, 3 Phase	36	309-0297	6	Switch, Snap Action
8	306-0508	2	Arm, Interlock Assembly	37	812-0082	8	Screw, Machine - Round Head (#8-32 x 3/4")
9	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")	38	306-0636	4	Bracket, Auxiliary Switch
10	CONTACT AND BLOCK KIT (Includes Parts Marked *)			39	306-0281	8	Barrier, Switch
	306-1841	2	2 Pole, 1 Phase	42	SCREW, CAP - HEX HEAD (#8-32 x 3/8")		
	306-1835	2	3 Pole, 3 Phase	815-0127	5	2 Pole, 1 Phase	
11	STRAP, LOAD			815-0127	5	3 Pole, 3 Phase	
	337-0280	1	2 Pole, 1 Phase	44	*CHUTE, ARC		
	337-0291	1	3 Pole, 3 Phase	306-0320	4	2 Pole, 1 Phase	
12	337-0278	1	Strap, Jumper	306-0320	6	3 Pole, 3 Phase	
13	STRAP, LOAD - 3 Pole, 3 Phase			45	SPACER, ARC CHUTE		
	337-0279	1	Standard	306-0668	8	2 Pole, 1 Phase	
	337-0291	1	Rear Connected	306-0668	12	3 Pole, 3 Phase	
14	337-0277	1	Strap, Jumper - 3 Pole, 3 Phase	47	SCREW, MACHINE - ROUND HEAD (#10-32 x 1-1/2")		
15	LUG, SOLDERLESS - STANDARD CONNECT			812-0087	8	2 Pole, 1 Phase	
	332-2054	5	2 Pole, 1 Phase	812-0087	12	3 Pole, 3 Phase	
	332-2054	6	3 Pole, 3 Phase	45	WASHER, LOCK (#8)		
16	SCREW, CAP - HEX HEAD (1/2-13 x 2") STANDARD CONNECT			854-0007	8	2 Pole, 1 Phase	
	800-0094	5	2 Pole, 1 Phase	854-0007	12	3 Pole, 3 Phase	
	800-0094	6	3 Pole, 3 Phase	49	337-0278	1	Strap, Ground
17	WASHER, LOCK - SPRING (1/2") - STANDARD CONNECT			50	526-0048	12	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
	851-0023	5	2 Pole, 1 Phase	51	306-1398	6	Bushing - 3 Pole, 3 Phase Units
	851-0023	6	3 Pole, 3 Phase	52	815-0485	4	*Screw, Shoulder (#10-32 x 3/8")
19	STRAP, LOAD			53	850-0030	4	*Washer, Lock - Spring (#10)
	337-0333	1	Standard	54	813-0109	2	*Screw, Machine - Round Head (#10-32 x 1-3/4")
	337-0291	1	Rear Connected	55	870-0298	4	*Nut, Hex - Locking (#10-32)
20	306-0534	1	Bar, Interlock	56	306-0643	2	*Handle, Switch (RH)
21	815-0446	4	Screw, Machine - Round Head W/IT (#8-32 x 1/2")	57	306-0644	2	*Handle, Switch (LH)
22	166-0122	8	Spacer, Mounting Screw	58	813-0110	2	*Screw, Machine - Round Head (#10-32 x 2")
23	337-0320	1	Bar, Neutral - Standard Connected				

* - Parts included in 306-1841 and 306-1835 Contact and Block Kit

SWITCHING ASSEMBLY (4 POLE)



SC-1025

SWITCHING ASSEMBLY (4 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)			30	306-1426	2	Bracket, Level
	306-1493	1	Standard	31	306-1420	2	Lever
	306-1494	1	Rear Connected	32	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")
1	BASE, SWITCH			33	850-0020	8	Washer, Lock (#6)
	306-1472	1	Standard	34	860-0005	8	Nut, Hex (#6-32)
	306-1482	1	Rear Connected	35	812-0086	4	Screw, Machine - Round Head (#8-32 x 1-1/4")
2	306-1839	2	Kit, Contact Replacement	36	854-0007	20	Washer, Lock - IT (#8)
3	800-0007	22	Screw, Cap - Hex Head (1/4-20 x 1")	37	860-0008	8	Nut, Hex (#8-32)
4	526-0018	44	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	39	306-1423	2	Bracket, Interlock Bar
5	854-0014	40	Washer, Lock - IT (1/4")	40	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
6	800-0008	16	Screw, Cap - Hex Head (1/4-20 x 1-1/4")	41	332-2064	6	Lug, Solderless - Standard Units
7	306-1431	4	Bracket, Accessory Switch	41	337-0290	6	Strap, Rear Connected Units
8	306-1427	2	Spacer, Lever	42	332-2064	2	Lug, Solderless - Standard Units
9	812-0082	16	Screw, Machine - Round Head (#8-32 x 3/4")	42	337-0290	2	Strap, - Rear Connected Units
10	306-0643	4	Handle, Actuator - Half - Right Side	43	815-0446	4	Screw, Machine x Recessed W/IT (#8-32 x 1/2")
11	306-0644	4	Handle, Actuator - Half - Left Side	44	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")
12	813-0109	4	Screw, Machine - Round Head (#10-32 x 1-3/4")	45	306-0253	2	Lever
13	870-0298	8	Nut, Hex - Self Locking (#10-32)	46	815-0447	4	Screw, Machine - Round Head x Recessed W/IT (#8-32 x 3/4")
14	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")	47	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
15	815-0485	2	Screw, Machine - Shoulder	48	851-0022	8	Washer, Lock - Spring (3/8")
16	850-0030	2	Washer, Lock - Spring (#10)	49	306-1473	1	Bar, Interlock
17	STRAP, LOAD			50	800-0009	8	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
	306-1463	1	Standard (Includes Parts Marked *)	51	850-0040	8	Washer, Lock - Spring (1/4")
	337-0291	1	Rear Connected	52	862-0001	8	Nut, Hex (1/4-20)
18	STRAP, LOAD			53	308-0297	8	Switch, Snap Action
	306-1462	1	Standard (Includes Parts Marked *)	54	306-0636	4	Bracket, Auxiliary Switch
	337-0291	1	Rear Connected	55	306-0281	12	Barrier, Switch
19	STRAP, LOAD			56	166-0122	8	Spacer, Mounting Screw
	306-1461	1	Standard (Includes Parts Marked *)	57	815-0127	8	Screw, Binder Head (#8-32 x 3/8")
	337-0291	1	Rear Connected	58	812-0087	12	Screw, Machine - Round Head (#10-32 x 1-1/2")
20	STRAP, LOAD			59	526-0048	12	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
	306-1445	1	Standard (Includes Parts Marked Δ)	60	306-0320	6	Chute, Arc
	337-0291	1	Rear Connected	61	306-0668	12	Spacer, Arc Chute
21	898-1082	3	*Insulator Sleeving	62	306-1424	2	Spacer, Interlock
22	306-0313	3	*Stop, Bar	63	850-0040	4	Washer, Lock - Spring (1/4")
23	815-0046	8	*ΔScrew, Machine x Recessed W/IT (#8-32 x 3/8")	64	306-0508	4	Arm, Interlock Assembly
24	854-0007	8	*ΔWasher, Lock - IT (#8)	65	851-0027	8	Washer, Lock - Spring (1/4")
25	337-0372	2	Strap, Jumper				
26	337-0373	4	Strap, Jumper				
27	332-2054	4	Lug, Solderless - Standard Connect Units				
28	800-0094	4	Screw, Cap - Hex Head (1/2-13 x 2") Standard Units				
29	851-0027	8	Washer, Lock - Spring (1/4") - Standard Units				

* - Parts included in 306-1463, 306-1462 and 306-1461 Load Strap Assembly.

Δ - Parts included in 306-1445 Load Strap Assembly.