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Parts Manual

Our energy working for you.™



**Power
Generation**

Transfer Switch

600 Amp

OT (Spec A-D)

GENERAL INFORMATION

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest 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 the Onan nameplate.

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

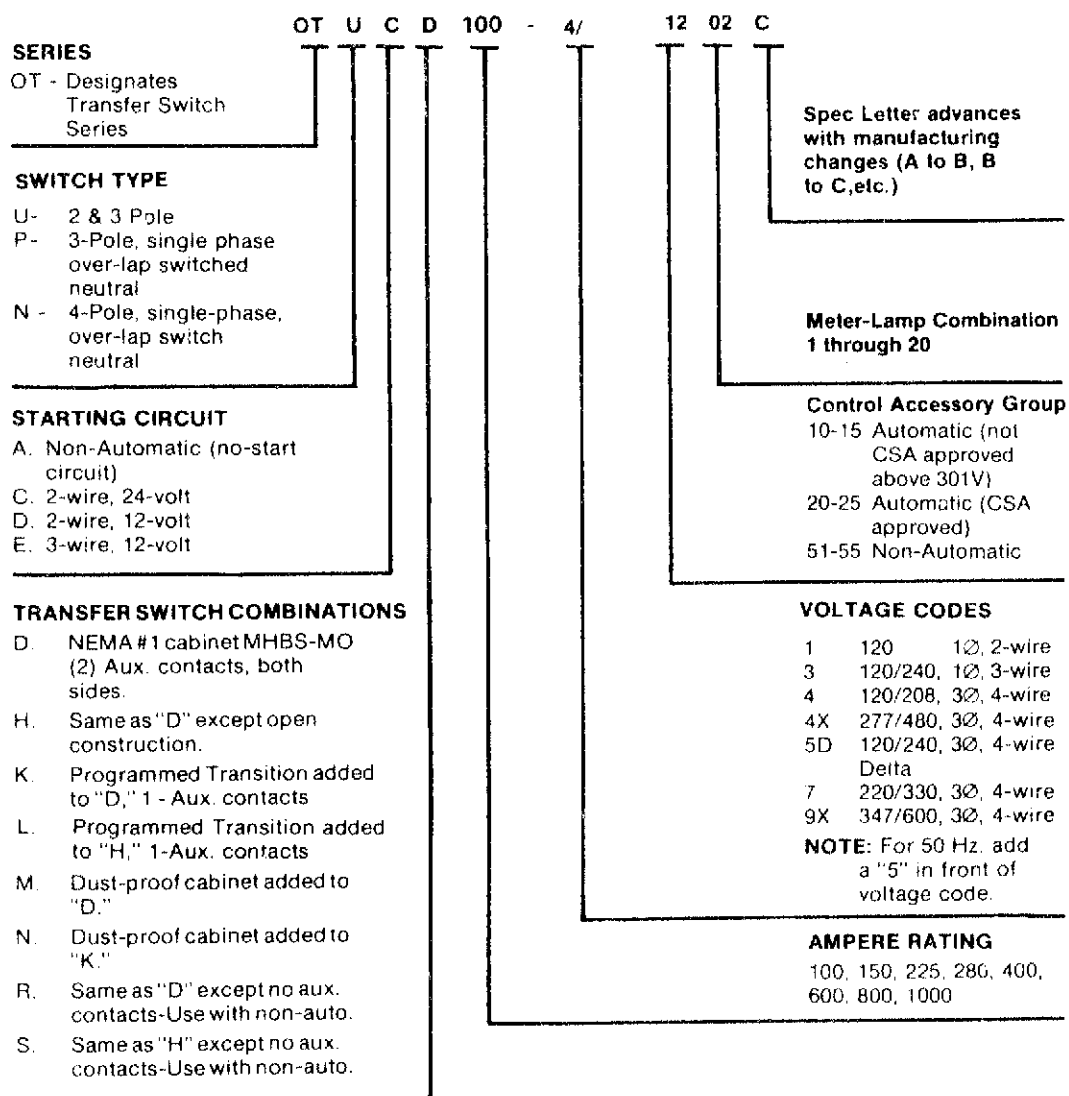
For handy reference, insert "YOUR" nameplate information in the spaces above.

INDEX

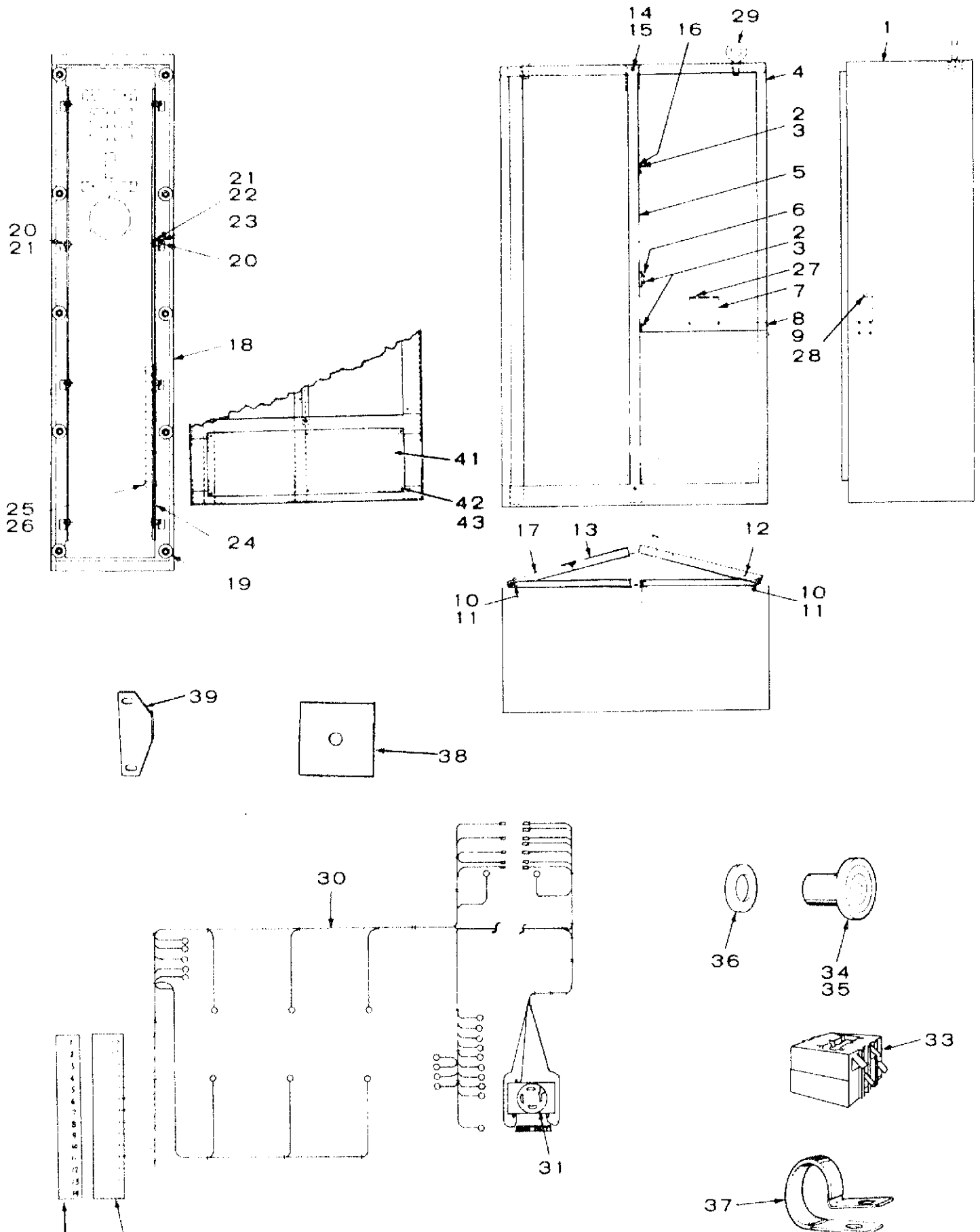
Cabinet-Dust Proof.....	A7, A8
Cabinet-Open Construction.....	A11, A12
Cabinet-Standard (Automatic)	A5, A6
Cabinet-Standard (Non-Automatic)	A9, A10
Charger-Battery (2 Ampere)	D5
Charger-Battery (300 Milliampere).....	D6
Clock-Exerciser.....	C4
Panel-Meter and Lamp	B1-B3
Panel-Modular Control	B5-B8
Panel-Relay Type	C11-C14
Panel-Swinging (Spec A).....	B9-B11
Panel-Swinging (Begin Spec B)	C1-C3
Relay-Auxiliary Starting	C10
Relay-Time Delay Preheat.....	C7
Relay-Time Delay Retransfer.....	C9
Sensor-Battery Voltage.....	C5
Sensor-Over Voltage	C6
Sensor-Voltage (Single Phase).....	D1
Sensor-Voltage (Three Phase).....	D3, D4
Switch-Retransfer	C8
Switch-Transfer (2 and 3 Pole)	D7, D8
Switch-Transfer(2 and 3 Pole Programmed Transition)	D9, D10
Switch-Transfer (4 Pole)	D11, D12
Switch-Transfer(4 Pole Programmed Transition) ...	D13, D14
Switching Assembly (2 and 3 Pole)	E1, E2
Switching Assembly (4 Pole)	E3, E4

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



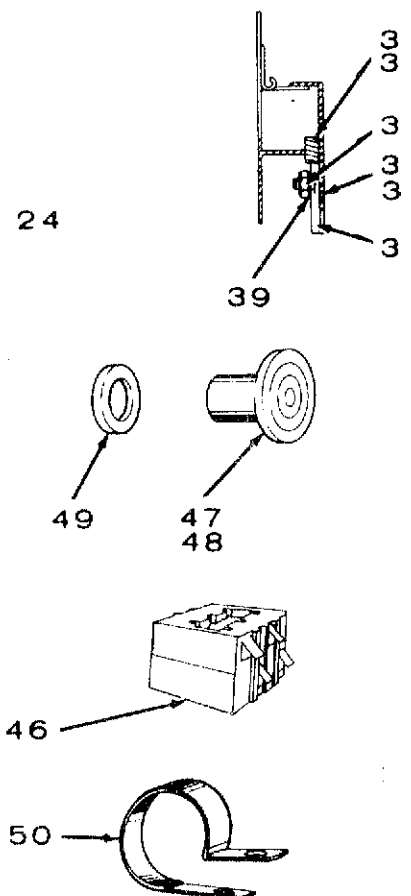
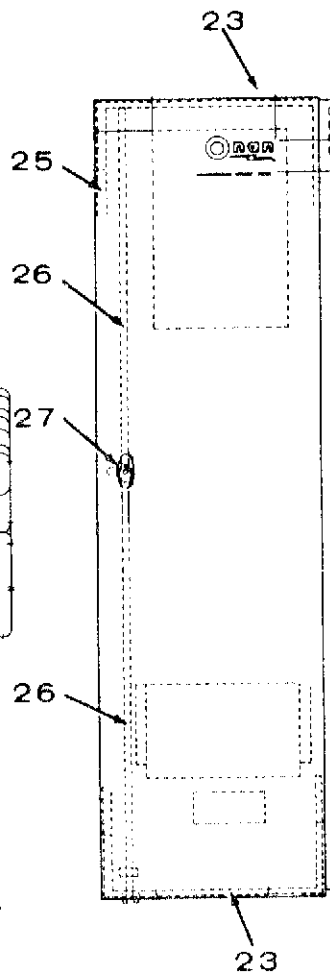
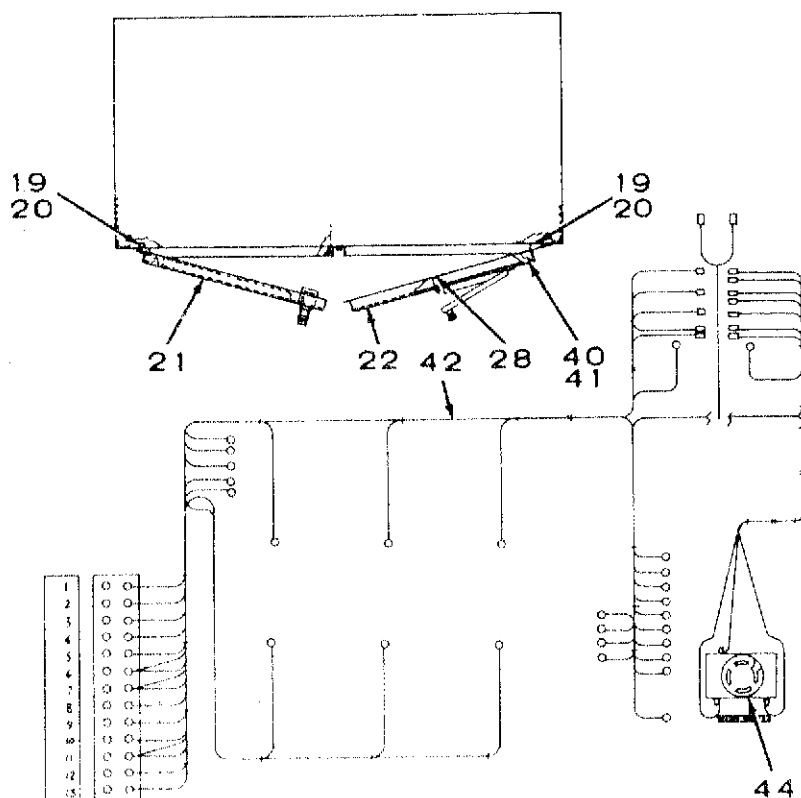
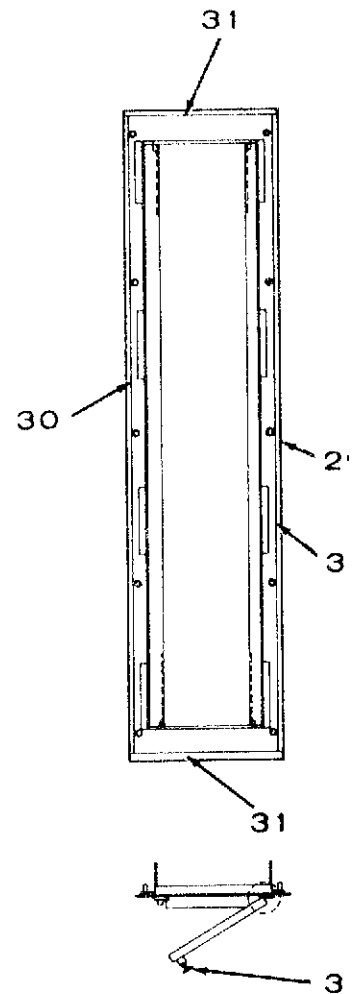
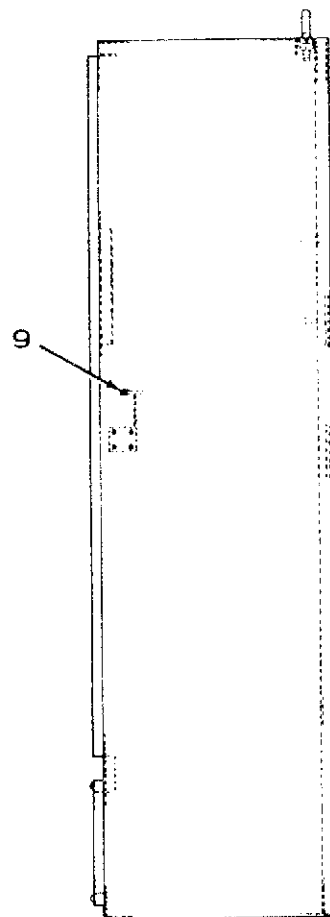
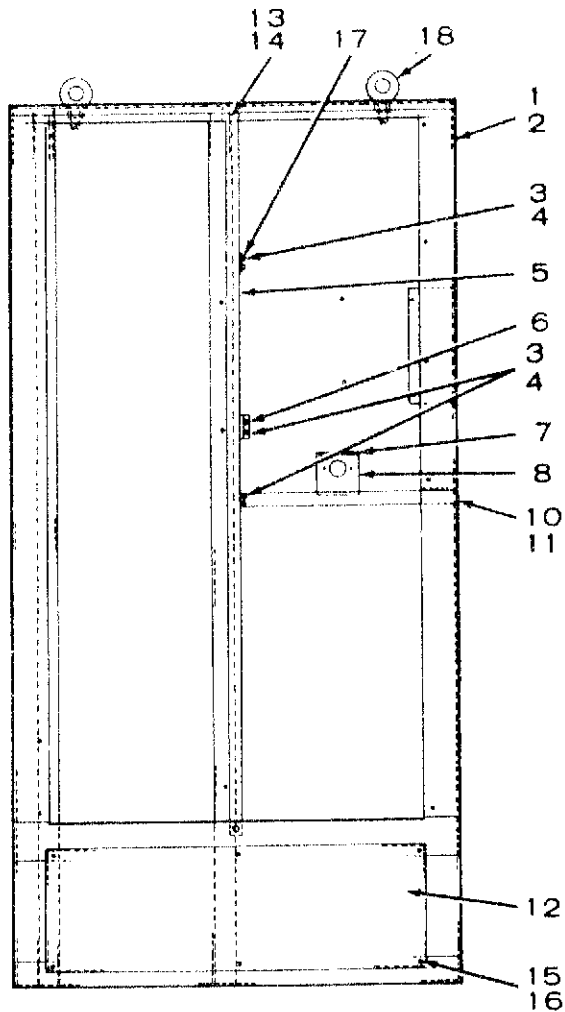
CABINET ASSEMBLY (AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,K

OT ☐ ☐ - ☐ / ☐ ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CABINET ASSEMBLY CONTROL			26	856-0001	2	‡*Washer, Lock - EIT (#6)
	301-4822	1	2 and 3 Pole Transfer Switch (Includes Parts Marked *)	27	323-1129	1	‡*Guard Receptacle
	301-5134	1	4 Pole Transfer Switch (Includes Parts Marked ‡)	28	518-0402	2	‡*Clip, Speed
2	813-0096	6	‡*Screw, Machine - Round Head (#10-32 x 1/4")	29	403-0931	2	‡*Bolt, Eye - Lifting
3	853-0008	6	‡*Washer, Lock - ET (#10)	30	HARNESS, WIRING		(Includes Parts Marked £)
4	BOX, CONTROL				338-1190	1	1 Phase Units (2 and 3 Pole) 3 Phase Units
	301-4332	1	*2 and 3 Pole Transfer Switch		338-1190	1	Voltage Codes 4, 5D, 4X, 54 55D, 54X (2 and 3 Pole)
	301-4510	1	‡4 Pole Transfer Switch		338-1260	1	Voltage Codes 4, 5D, 4X, 54, 55D, 54X (4 Pole)
5	301-4503	1	‡*Support, Control Box Center		338-1194	1	Voltage Codes 7, 57 (2 and 3 Pole)
6	406-0420	1	‡*Strike, Latch		338-1117	1	Voltage Codes 9X, 59X (2 and 3 Pole)
7	BRACKET, DISCONNECT PLUG			31	323-0900	1	£Receptacle, Twistlock
	301-4338	1	*2 and 3 Pole Transfer Switch	32	332-1697	1	£Block, Terminal
	301-4745	1	‡4 Pole Transfer Switch	33	RELAY, INTERPOSING		
8	813-0009	4	‡*Screw, Machine - Round Head (#10-32 x 7/16")		307-1545	1	3,4,5D,53,54,55D
9	854-0010	4	‡*Washer, Lock - IT (#10)		307-1546	1	4X, 54X
10	860-0008	12	‡*Nut, Hex (#8-32)	34	406-0363	2	Pin, Hinge
11	853-0005	12	‡*Washer, Lock - ET (#8)	35	406-0370	1	Pin, Latch
12	DOOR, RIGHT HAND			36	508-0177	1	Washer, Nylon
	301-4583	1	*2 and 3 Pole Transfer Switch	37	CLAMP, LOOP		
	301-5133	1	‡4 Pole		332-1356	2	3/4" Diameter
13	301-4499	1	‡*Door, Left Hand		332-1414	6	5/16" Diameter
14	812-0148	2	‡*Screw, Machine - Round Head (1/4-20 x 1/2")		332-0050	6	1/2" Diameter
15	854-0014	2	*Washer, Lock - IT (1/4")	38	306-1380	2	Spacer, Mounting - 4 Pole Transfer Switches
16	301-4578	1	‡*Bracket, Swinging Panel	39	301-3524	1	Plate, Striker - 4 Pole Transfer Switches
17	300-1138	1	‡*Mounting Package - Meter Panel (Includes Parts Marked Δ)	40	332-1698	1	Strip, Marker (0 thru H)
18	301-3895	1	‡*ΔPlate, Meter Panel Mounting	41	301-4506	1	‡Panel, Front
19	870-0299	10	‡*ΔNut, Hex - Swivel Washer (1/4-20)	42	812-0150	4	‡Screw, Machine - Round Head (1/4-20 x 5/8")
20	812-0079	8	‡*ΔScrew, Machine - Round Head (#8-32 x 1/2")	43	854-0014	8	‡Washer, Lock - IT (1/4")
21	856-0002	8	‡*ΔWasher, Lock - EIT (#8)				
22	860-0008	2	‡*ΔNut, Hex (#8-32)				
23	150-0302	4	‡*ΔSpacer				
24	301-5382	1	‡ΔBracket, Terminal Block				
25	812-0066	2	‡*ΔScrew, Machine - Round Head (#6-32 x 3/4")				

* - Parts included in 301-4822 Cabinet Assembly
‡ - Parts included in 301-5134 Cabinet Assembly.
Δ - Parts included in 300-1138 Mounting Package.
£ - Parts included in Wiring Harness Assemblies
338-1190, 338-1194 and 338-1117.

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



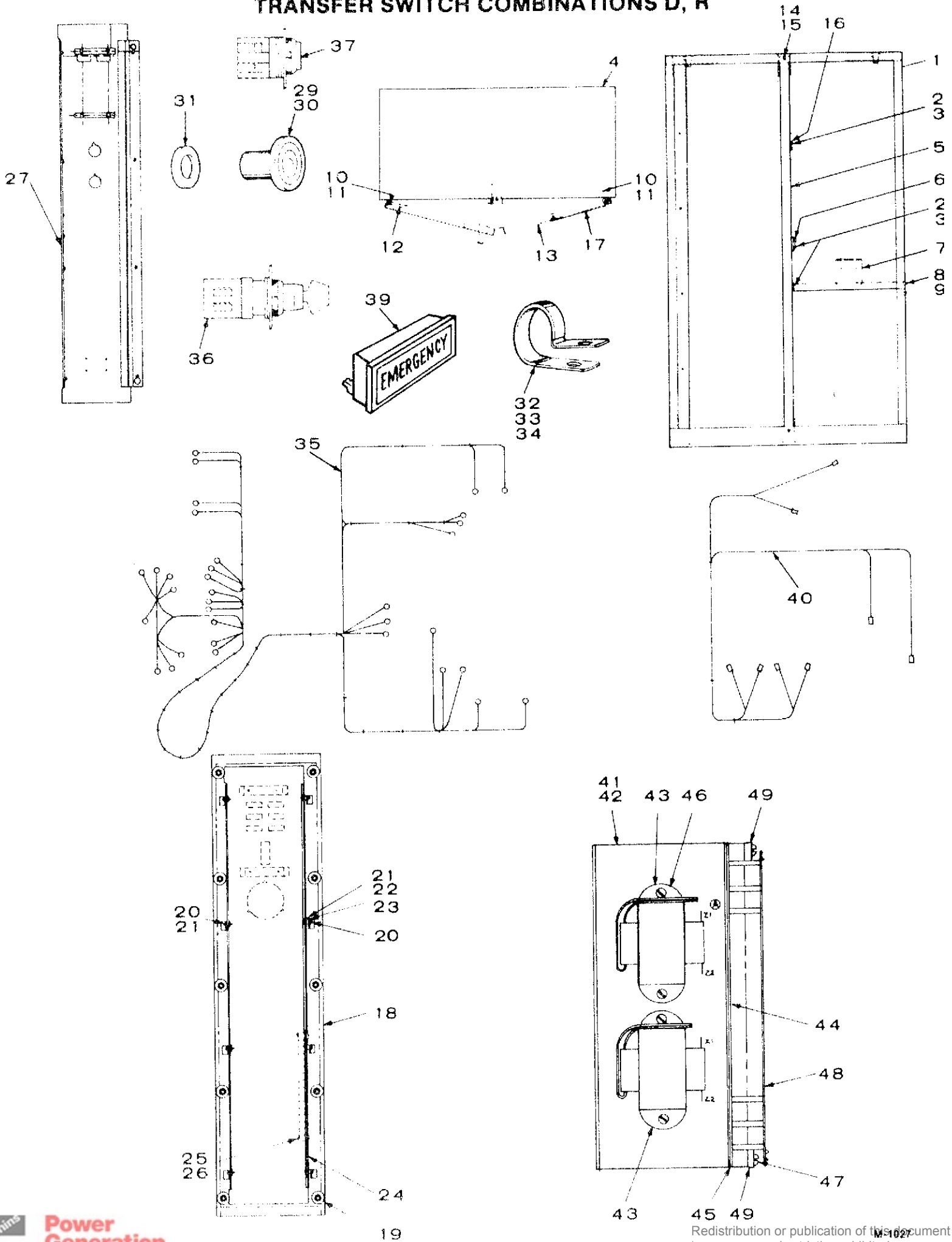
CABINET ASSEMBLY, DUST PROOF (AUTOMATIC) TRANSFER SWITCH COMBINATIONS M,N

OT ☐ ☐ ☐ - ☐ / ☐ ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CABINET ASSEMBLY, CONTROL (INCLUDES PARTS MARKED *)			28	301-5445	1	*Mounting Assembly, Meter Panel (Includes Parts Marked •)
	301-5307	1	2 and 3 Pole Transfer Switches	29	301-5624	1	*•Door and Plate Assembly
	301-5308	1	4 Pole Transfer Switches	30	895-0202	2	*•Strip, Weather
2	*BOX, CONTROL			31	895-0200	2	*•Strip, Weather (9" of 3/16 x 3/8")
	301-5305	1	2 and 3 Pole Transfer Switches	32	895-0198	2	*•Strip, Weather (32.5" of 1/8 x 1/4")
	301-5306	1	4 Pole Transfer Switches	33	895-0197	2	*•Strip, Weather (4" of 1/8 x 1/4")
3	813-0096	6	*Screw, Machine - Round Head (#10-32 x 1/2")	34	895-0201	2	*•Strip, Weather (33.75" of 3/16 x 3/8")
4	853-0008	6	*Washer, Lock - ET (#10)	35	895-0199	2	*•Strip, Weather (5.65" of 3/16 x 3/8")
5	301-4503	1	*Support, Control Box Center	36	406-0425	3	*•Screw, Panel Latch
6	406-0468	1	*Strike, Latch	37	301-5062	1	*•Window, Display
7	323-1129	1	*Guard, Receptacle	38	860-0008	18	*•Nut, Hex (#8-32)
8	301-4338	1	*Bracket, Disconnect Plug	39	526-0003	18	*•Washer, Flat (11/64" ID x 3/8" OD x 1/32" Thk)
9	518-0402	2	*Clip, Speed	40	526-0015	6	*Washer, Flat (9/32" ID x 9/16" OD x 1/16" Thk)
10	813-0009	4	*Screw, Machine - Round Head (#10-32 x 7/16")	41	862-0001	6	*Nut, Hex (1/4-20)
11	854-0010	4	*Washer, Lock - IT (#8)	42	HARNESS, WIRING (INCLUDES PARTS MARKED £)		
12	301-5047	1	*Panel Assembly, Front - 4 Pole Transfer Switches		338-1190	1	2 and 3 Pole Transfer Switches
13	812-0148	2	*Screw, Machine - Round Head (1/4-20 x 1/2")		338-1260	1	4 Pole Transfer Switches
14	854-0014	2	*Washer, Lock - IT (1/4")	43	332-1697	1	£Block, Terminal (14-Place)
15	812-0150	4	*Screw, Machine - Round Head (1/4-20 x 5/8") - 4 Pole Transfer Switches	44	323-0900	1	£Receptacle, Twistlock
16	854-0014	8	*Washer, Lock - IT (1/4") - 4 Pole Transfer Switches	45	332-1698	1	Strip, Marker (1 thru 14)
17	301-4578	1	*Bracket, Swinging Panel	46	RELAY, INTERPOSING		
18	403-0931	2	*Eye Bolt, Lifting		307-1545	1	3,4,5D,53,54,55D
19	860-0008	12	*Nut, Hex (#8-32)		307-1546	1	4X, 54X
20	853-0005	12	*Washer, Lock - ET (#8)	47	406-0363	2	Pin, Hinge
21	301-5304	1	*Door, Right Side (Includes Parts Marked ▲)	48	406-0370	1	Pin, Latch
22	301-5302	1	*Door, Left Side (Includes Parts Marked †)	49	508-0177	1	Washer, Nylon
23	895-0183	4	*▲†Strip, Weather (15.31" of 1/4 x 1/2")	50	CLAMP, LOOP		
24	895-0184	2	*▲†Strip, Weather (56.06" of 1/4 x 1/2")		332-1356	2	3/4" Diameter
25	895-0187	2	*▲†Strip, Weather (56.06" of 1/4 x 3/4")		332-1414	6	5/16" Diameter
26	406-0454	2	*▲Bar, Latching		332-0050	6	1/2" Diameter
27	406-0253	1	*▲Handle, Lock (With Latch)				

* - Parts included in 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



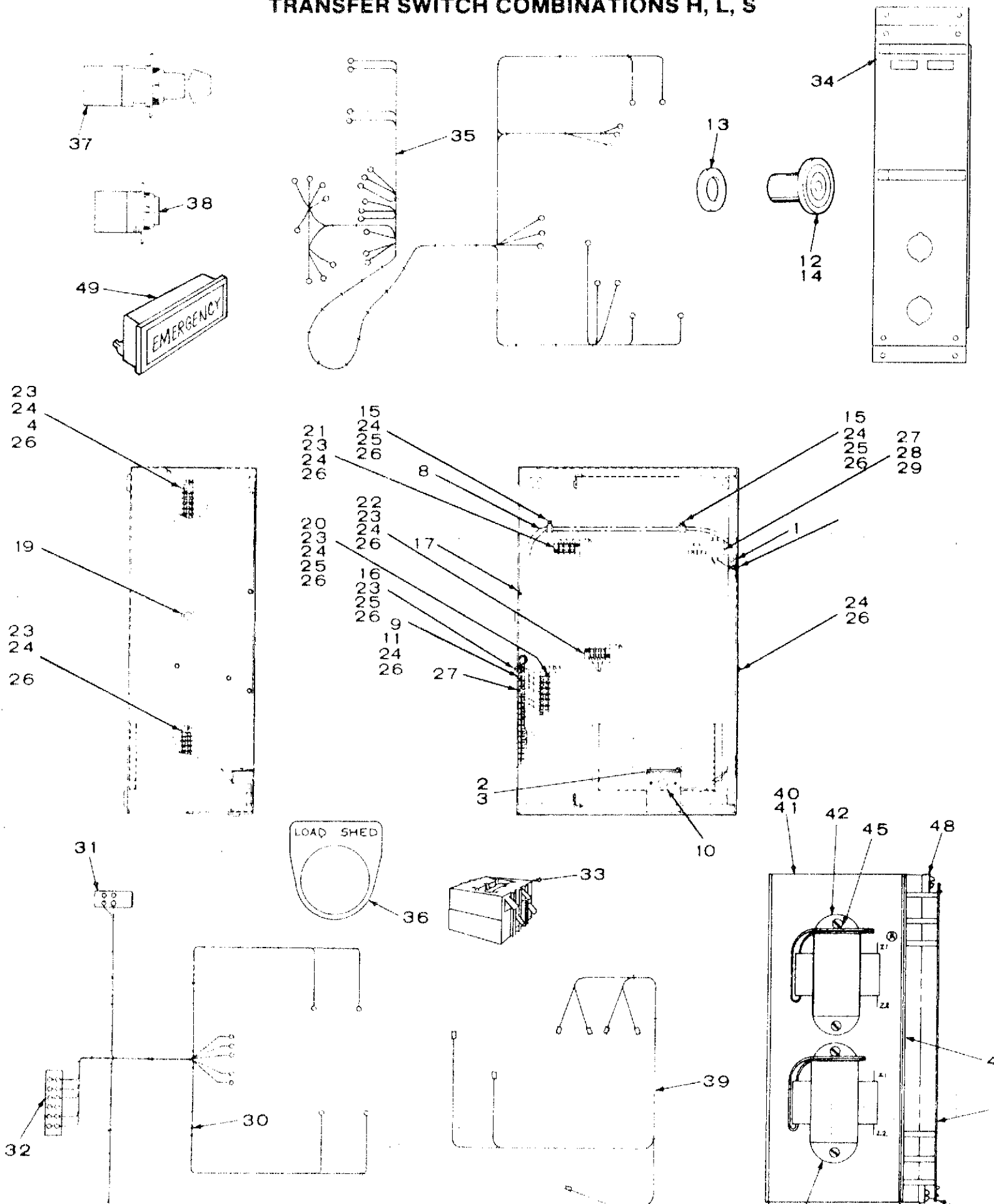
CABINET ASSEMBLY (NON-AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,R

OT ☐ ☐ - - / - - -

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4873	1	Cabinet Assembly, Control (Includes Parts Marked *)	26	856-0001	2	*ΔWasher, Lock - EIT (#6)
2	813-0096	6	*Screw, Machine - Round Head (#10-32 x 1/4")	27	301-4861	1	Panel, Meter
3	853-0008	6	Washer, Lock - ET (#10)	29	406-0363	2	Pin, Hinge
4	301-4332	1	*Box, Control	30	406-0370	1	Pin, Latch
5	301-4503	1	*Support, Control Box Center	31	508-0177	2	Washer, Nylon
6	406-0420	1	*Strike, Latch	32	332-1356	2	Clamp, Loop
7	301-4338	1	*Bracket, Disconnect Plug	33	332-1414	6	Clamp, Loop
8	813-0009	4	*Screw, Machine - Round Head (#10-32 x 7/16")	34	332-0050	1	Clamp, Loop
9	854-0010	4	*Washer, Lock - IT (#10)	35	HARNESS, WIRING		
10	860-0008	12	*Nut, Hex (#8-32)		338-1253	1	Transfer Switch Combination D
11	853-0005	12	*Washer, Lock - ET (#8)		336-1255	1	Transfer Switch Combination R
12	301-4870	1	*Door, Right Hand	36	308-0481	1	Switch, Selector (Key)
13	301-4499	1	*Door, Left Hand	37	308-0480	1	Switch, Push Button
14	812-0148	2	*Screw, Machine - Round Head (1/4-20 x 1/2")	39	LAMP, INDICATOR		
15	854-0014	2	*Washer, Lock - IT (1/4")		322-0146	1	Normal
16	301-4578	1	*Bracket, Swinging Panel		332-0147	1	Emergency
17	300-1138	1	*Mounting Package - Meter Panel (Includes Parts Marked Δ)	40	338-1258	1	Harness, Wiring - Lights
18	301-3895	1	*ΔPlate, Meter Panel Mounting	41	315-0374	1	Transformer Assembly - Stepdown (Includes Parts Marked †)
19	870-0299	10	*ΔNut, Hex - Swivel Washer (1/4-20)	42	301-3499	1	†Bracket, Transformer Mounting
20	812-0079	8	*ΔScrew, Machine - Round Head (#8-32 x 1/2")	43	315-0375	2	†Transformer, Stepdown
21	856-0002	8	*ΔWasher, Lock - EIT (#8)	44	332-1468	1	†Block, Terminal
22	860-0008	2	*ΔNut, Hex (#8-32)	45	332-1663	1	†Strip, Marker
23	150-0302	4	*ΔSpacer	46	815-0387	4	†Screw, Machine - Round Head (#6-32 x 1/4")
24	301-5382	1	*ΔBracket, Terminal Block	47	812-0066	2	†Screw, Machine - Round Head (#6-32 x 3/4")
25	812-0066	2	*ΔScrew, Machine - Round Head (#6-32 x 3/4")	48	332-1651	1	†Cover, Protection
				49	508-0074	2	†Washer, Insulator

* - Parts included in 301-4873 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)

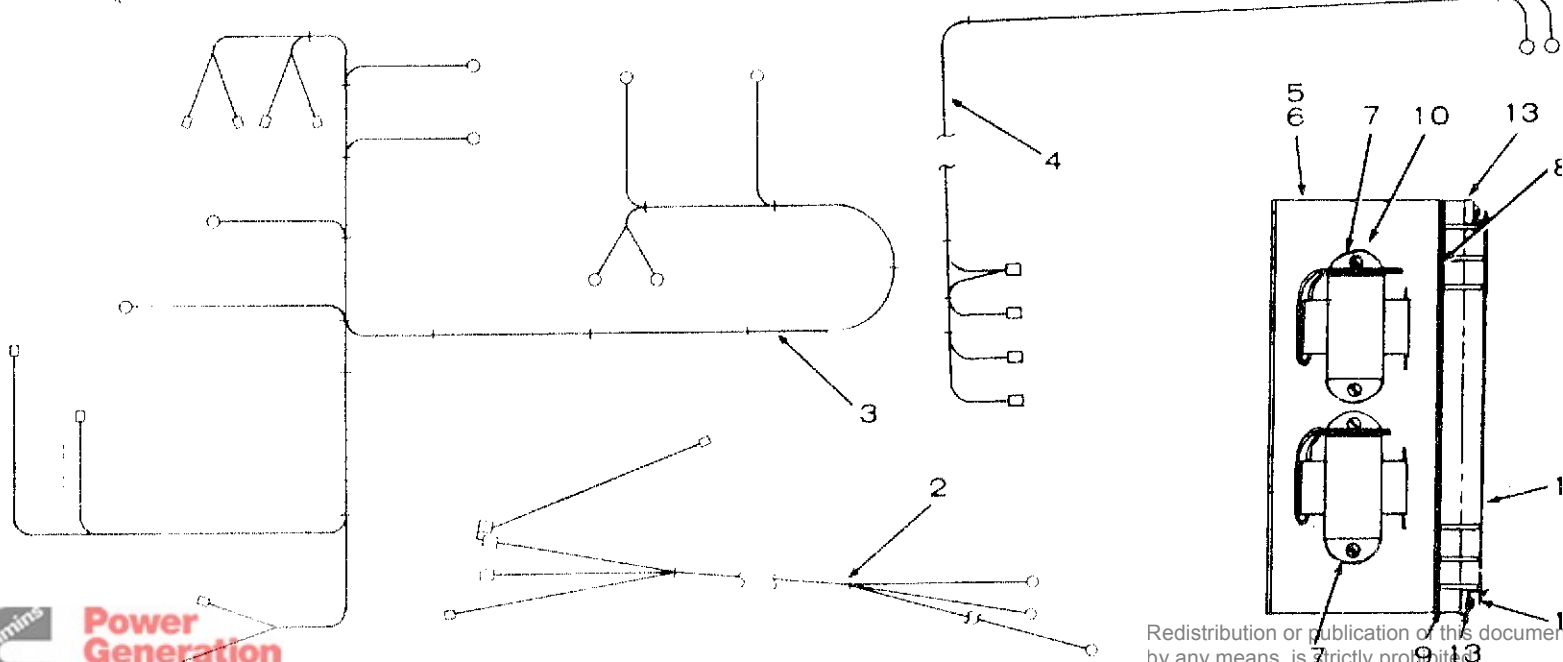
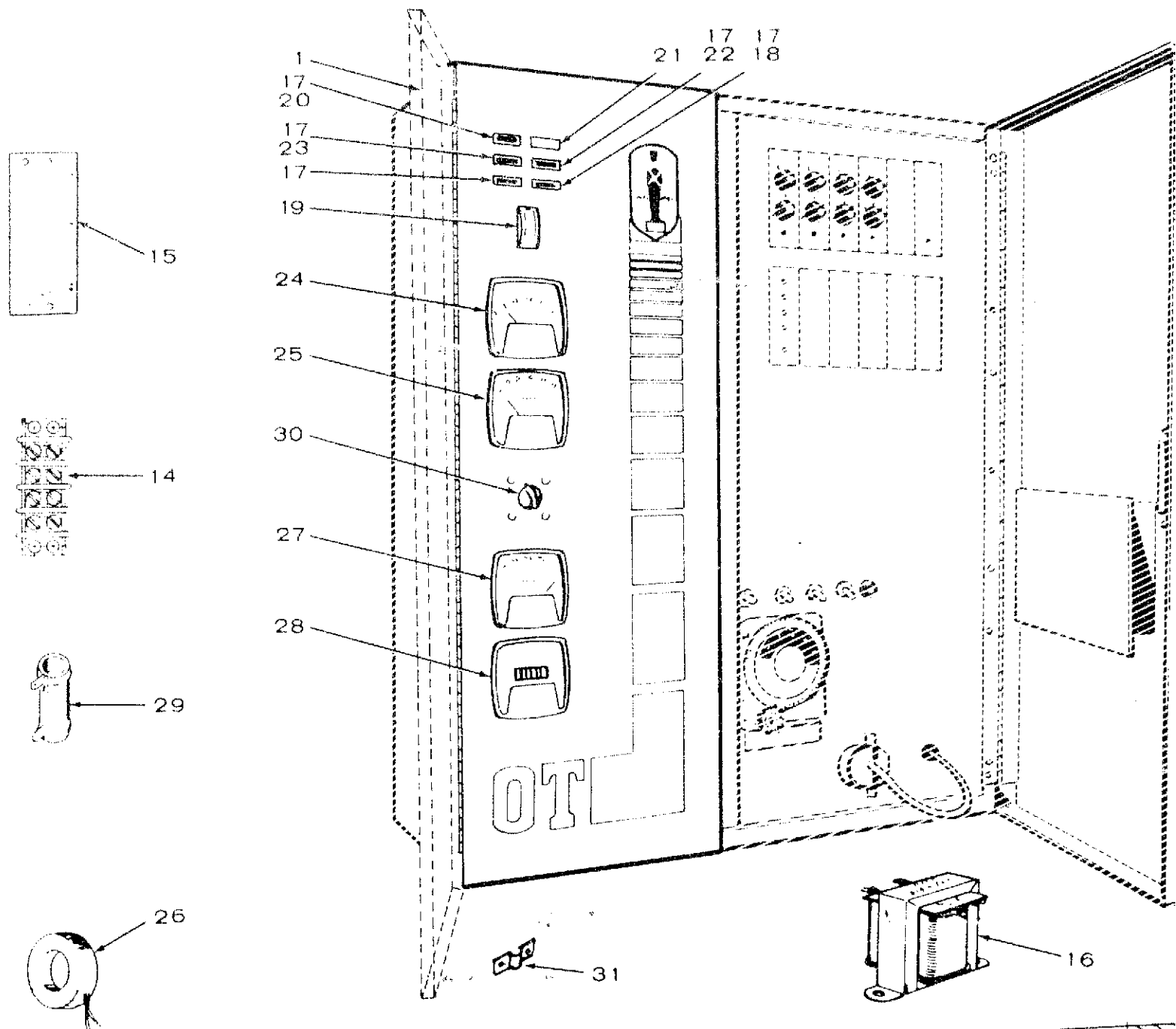
TRANSFER SWITCH COMBINATIONS H,L,S

OT ☐ - ☐ / ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	301-4848	1	Cabinet Assembly (Automatic) (Includes Parts Marked *)	31	332-2206	2	£Block, Terminal (3 Place) - Voltage Codes 3,4,5D,4X 53,54,55D,54X (Automatic)
1	301-4847	1	*Box, Control	32	332-1541	1	£Block, Terminal (6 Place) - Voltage Codes 3,4,5D,4X,53 54,55D,54X (Automatic)
2	323-1129	1	*Guard, Receptacle (Automatic)	33	RELAY, INTERPOSING (Automatic)		
3	518-0402	2	*Clip, Guard (Automatic)		307-1545	1	Voltage Codes 3,4,5D,53,54,55D
4	332-1469	1	*Strip, Marker (Automatic)		307-1546	1	Voltage Codes 4X,7,54X,57
5	332-1699	1	*Strip, Marker (Automatic)	34	301-4863	1	Panel, Meter (Non-Automatic)
6	871-0007	2	*Nut, Hex (#8-32) - Brass (Automatic)	35	HARNESS, WIRING (Non-Automatic)		
7	526-0062	2	*Washer, Flat - Brass (.200" ID x 1/2" OD x 1/16") (Automatic)		338-1254	1	Transfer Switch Combinations H
8	338-1049	1	*Harness, Wiring (Includes Parts Marked †) (Automatic)		338-1256	1	Transfer Switch Combinations S
9	332-1697	1	*†Block, Terminal (14 Place) (Automatic)	36	PLATE, LEGEND - TRANSFER SWITCH COMBINATION H,L,S, (Non-Automatic)		
10	323-0900	1	*†Receptacle, Twistlock (Automatic)		308-0485	1	Load Shed
11	332-1698	1	*Strip, Marker (Automatic)		308-0486	1	Normal - Off-Emergency
12	406-0363	2	*Pin, Hinge (Automatic)	37	308-0481	1	Switch, Selector (Key) (Non-Automatic)
13	508-0177	1	*Washer, Nylon (Automatic)	39	338-1258	1	Harness, Wiring - Lights (Non-Automatic)
14	406-0370	1	*Pin, Latch (Automatic)	40	315-0374	1	Transformer Assembly - Stepdown (Includes Parts Marked Δ) (Non-Automatic)
15	332-1356	2	*Clamp, Loop (3/4" Dia.) (Automatic)	41	301-3499	1	ΔBracket, Transformer Mounting (Non-Automatic)
16	332-1024	2	*Clamp, Loop (5/16" Dia.) (Automatic)	42	315-0375	2	ΔTransformer, Stepdown (Non-Automatic)
17	332-0050	2	*Clamp, Loop (1/2" Dia.) (Automatic)	43	332-1468	1	ΔBlock, Terminal (Non-Automatic)
18	810-0081	1	*Screw, Machine - Round Head Brass (#8-32 x 5/8") (Automatic)	44	332-1663	1	ΔStrip, Marker (Non-Automatic)
19	508-0144	1	*Grommet, Rubber (Automatic)	45	815-0387	4	ΔScrew, Machine - Round Head (#6-32 x 1/4") (Non-Automatic)
20	332-2203	1	*Strip, Marker (Automatic)	46	812-0066	2	ΔScrew, Machine - Round Head (#6-32 x 3/4") (Non-Automatic)
21	332-2205	1	*Strip, Marker (Automatic)	47	332-1651	1	ΔCover, Protection (Non-Automatic)
22	332-2204	1	*Strip, Marker (Automatic)	48	508-0074	2	ΔWasher, Insulator (Non-Automatic)
23	812-0084	12	*Screw, Machine - Round Head (#8-32 x 1") (Automatic)	49	LAMP, INDICATOR (Non-Automatic)		
24	853-0005	16	*Washer, Lock - ET (#8) (Automatic)		332-0146	1	Normal
25	812-0077	4	*Screw, Machine - Round Head (#8-32 x 3/8") (Automatic)		332-0147	1	Emergency
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				

* - 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
	338-0883	1	Panel Combinations 5,6,7,8		322-0141	2	Panel Combination 17
	338-0885	1	1 Phase Units		322-0141	3	Panel Combinations 2,3,6,7,10,11,14,15
			3 Phase Units				
			Panel Combinations 9,10,11,12 (Includes Terminal Block)		322-0141	5	Panel Combinations 1,5,9,13
	338-0884	1	1 Phase Units	18	322-0107	1	Lamp, Indicator - Over Crank
	338-0886	1	3 Phase Units - Voltage Codes 4,5D,54,55D	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
	338-0887	1	3 Phase Units - Voltage Codes 4X,9X,54X,59X	20	322-0146	1	Lamp, Indicator - Normal - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-1046	1	3 Phase Units - Voltage Codes 7,57	21	322-0147	1	Lamp, Indicator - Emergency - Panel Combinations 2,4,6,8,10,12,14,16,18
			Panel Combinations 13,14,15,16	22	LAMP, INDICATOR - LOW BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-0883	1	1 Phase Units		322-0114	1	Units with 12 Volt Starting Circuit (D and E)
	338-0883	1	3 Phase Units - Voltage Codes 4,5D,4X,9X,54,55D,54X,59		322-0126	1	Units with 24 Volt Starting Circuit (C)
	338-1257	1	3 Phase Units - Voltage Codes 7,57	23	LAMP, INDICATOR - HIGH BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-1201	1	Panel Combinations 17,18		322-0115	1	Units with 12 Volt Starting Circuit (D and E)
3	338-0661	1	Harness, Wiring - Lamps (Normal and Emergency) Panel Combinations 2,4,6,8,10,12,14,16,18		322-0127	1	Units with 24 Volt Starting Circuit (C)
4	338-0659	1	Harness, Wiring - Lamps (Battery Volts) - Panel Combinations 3,4,7,8,11,12,15,16	24	VOLTMETER (AC) - PANEL COMBINATIONS 5,6,7,8,9,10,11,12		
					302-0421	1	Voltage Codes 3,4,5D,53,54,55D
					302-0422	1	Voltage Codes 4X,7,54X,57
					302-0423	1	Voltage Codes 9X,59X
5	315-0374	1	Transformer Assembly - Step Down (Includes Parts Marked *) - Panel Combinations 2,4,6,8,10,12,14,16,18	25	AMMETER (AC) - PANEL COMBINATIONS 9,10,11,12		
					302-0415	2	Voltage Codes 3,53
					302-0415	1	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
6	301-3499	1	*Bracket, Transformer Mounting - Panel Combinations 2,4,6,8,10,12,14,16,18	26	TRANSFORMER, CURRENT - PANEL COMBINATIONS 9,10,11,12		
					302-0625	2	Voltage Codes 3,53
7	315-0375	2	*Transformer, Step Down - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0625	3	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
8	332-1468	1	*Block, Terminal - Panel Combinations 2,4,6,8,10,12,14,16,18	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
9	332-1663	1	*Strip, Marker - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0811	1	60 Hertz Voltage Codes 3,5D

METER-LAMP COMBINATION PANELS (1 THROUGH 18)

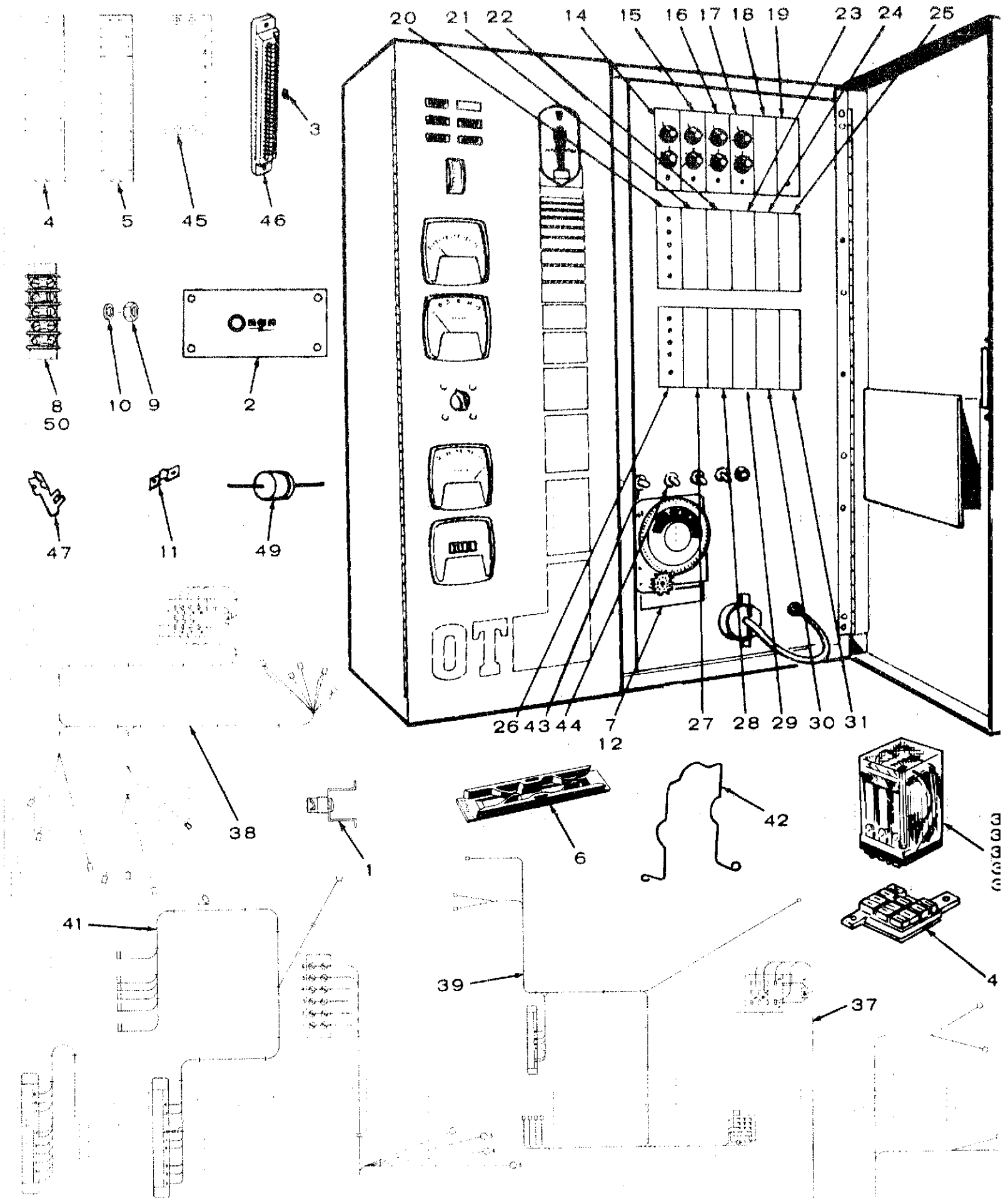
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302-0810	1	Voltage Code 4
	302-0809	1	Voltage Codes 4X,9X
28	METER, RUNNING TIME		Panel Combinations 9,10,11,12
	302-0469	1	Voltage Codes 53,54,55D,57
	302-0468	1	Voltage Codes 54X,59X
	302-0466	1	Voltage Codes 3,4,5D,7
	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

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

* - 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	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4727	2	Bracket and Fastener - Begin Spec B	9	860-0006	2	Nut, Hex (#6-32) - Accessory Groups 10,11,15,20,21,25
2	301-3593	1	Cover, Rack - Accessory Groups 10,11,12,13,20,21, 22,23	10	850-0020	2	Washer, Lock - Spring (#6) - Accessory Groups 10,11,15, 20,21,25
3	PLUG, KEYING		Accessory Groups 10 and 20 Voltage Codes 3,53	11	332-1043	1	Jumper, Terminal Block - Accessory Groups 10,11,15, 20,21,25
	332-1276	6	Spec A	12	CLOCK, PLANT EXERCISER (120 Volt) - ACCESSORY GROUPS 12,13,14,22,23,24		
	332-2114	6	Begin Spec B Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X		307-1104	1	50 Hertz
	332-1276	8	Spec A		307-1102	1	60 Hertz
	332-2114	8	Begin Spec B Accessory Groups 11,12,13,21, 22 and 23 Voltage Codes 3,53	14	300-0780	1	Module, Under Voltage Sensor (Line) (See Separate Group for Components)
	332-1276	7	Spec A	15	300-0937	1	Module, Blank - Voltage Codes 3,53
	332-2114	7	Begin Spec B Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X	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)
	332-1276	9	Spec A	16	300-0937	1	Module, Blank - Voltage Codes 3,53
	332-2114	9	Begin Spec B Accessory Groups 14 and 24 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)
	332-1276	9	Spec A	17	300-0780	1	Module, Under Voltage Sensor (Generator) (See Separate Group for Components)
	332-2114	9	Begin Spec B Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X	18	MODULE, VOLTAGE		
	332-1276	13	Spec A		300-0847	1	Units with 12 Volt Starting Circuit (D & E)
	332-2114	13	Begin Spec B Accessory Groups 15 and 25 Voltage Codes 3,53		300-0848	1	Units with 24 Volt Starting Circuit (C)
	332-1276	10	Spec A	19	300-0937	1	Module, Blank - Accessory Groups 10,15,20,25
	332-2114	10	Begin Spec B Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X	19	MODULE, BATTERY CHARGER - Accessory Groups 11,1 14,21,22,23,24 (See Separate Groups for Components)		
	332-1276	14	Spec A		300-0793	1	Units with 12 Volt Starting Circuit (D & E)
	332-2114	14	Begin Spec B		300-0794	1	Units with 24 Volt Starting Circuit (C)
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				

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 Component)
	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 Component)
	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	
				338-0657	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - 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	338-1137	1	Voltage Codes 3,53 - Begin Spec B	
				338-1134	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - Begin Spec B	
26	300-0937	1	Module, Blank - Accessory Groups 15,25	40	HARNESS, BATTERY VOLTAGE - ACCESSORY GROUP 14,15,24,25 (Includes Parts Marked †)		
26	300-0780	1	Module, Over Voltage Sensor				

MODULAR CONTROL ACCESSORY PANEL

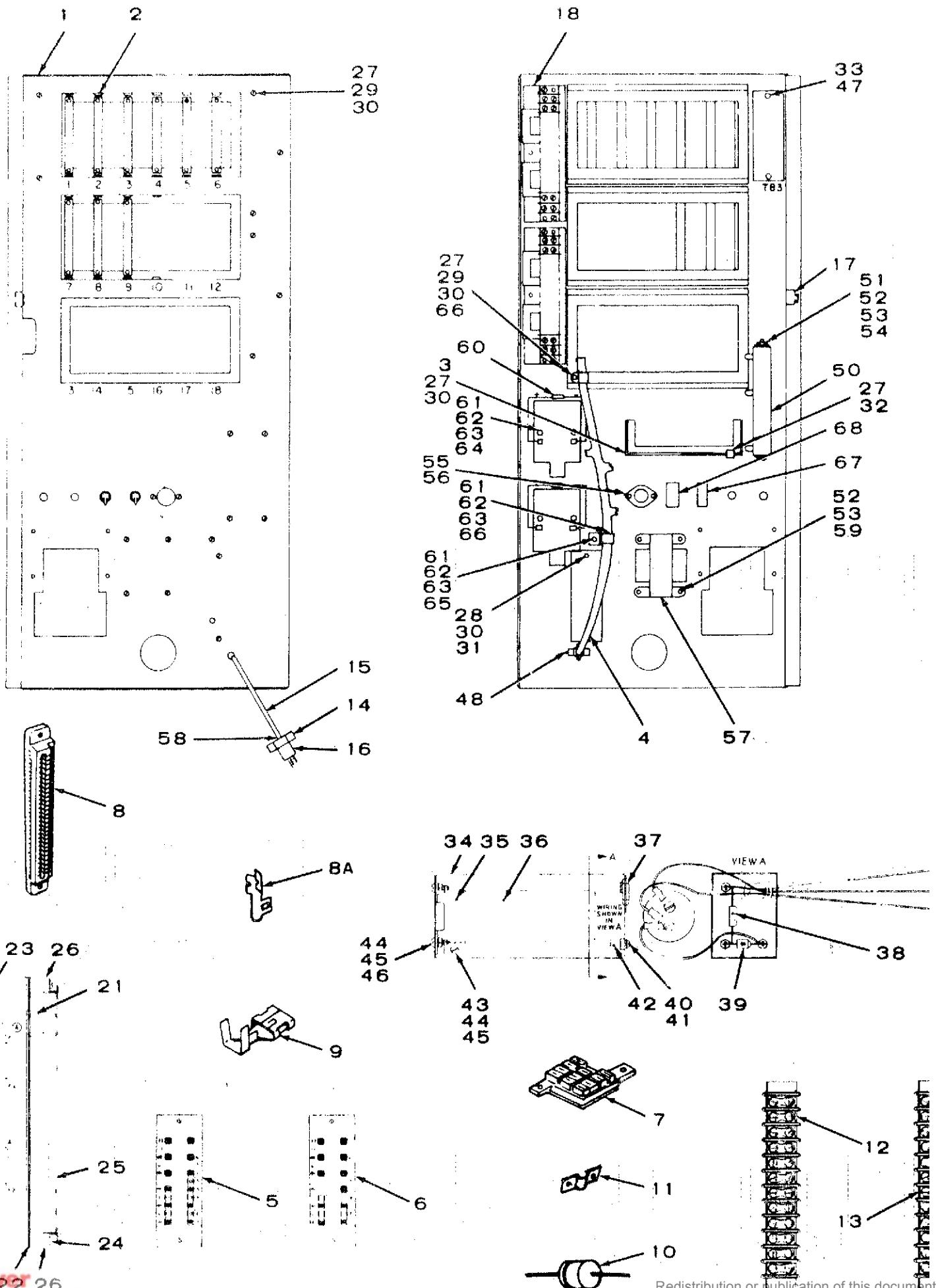
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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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	332-1260	12	*Δ†£□#□■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†£□#□■Jumper, Terminal
	300-1521	1	Voltage Codes 7,57	12	332-1468	1	*Δ†£□#□■Block, Terminal (12 Place)
			Accessory Groups 11,12,13,14,15	13	332-0795	1	*Δ†£□#□■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				
3	307-1157	2	Spring, Relay Holddown (All Except Accessory Groups 20,21,22,23,24,25)	315-0374	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)	
4	HARNESS, WIRING - MAIN - NOT ILLUSTRATED			19	**BRACKET, TRANSFORMER MOUNTING		
			Accessory Group 10	301-3499	1	Units with Voltage Codes 3,53 (1-Phase)	
	338-1022	1	Voltage Codes 3,53 (Includes Parts Marked *)				
	338-1021	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)	301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)	
	338-1085	1	Voltage Codes 7,57 (Includes Parts Marked †)	20	TRANSFORMER, STEP DOWN		
			Accessory Groups 11,12,13,14,15	315-0375	2	Units with Voltage Codes 3,53 (1-Phase)	
	338-0776	1	Voltage Codes 3,53 (Includes Parts Marked £)				
	338-0777	1	Voltage Codes 4,5D,4X,9X,54, 55D,54X,59X (Includes Parts Marked □)	315-0375	4	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 #)	21	**TERMINAL, BLOCK		
	338-1045	1	Accessory Group 20 (Includes Parts Marked Ø)	332-1468	1	Units with Voltage Codes 3,53 (1-Phase)	
	338-1043	1	Accessory Groups 21,22,23, 24,25 (Includes Parts Marked ■)	332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)	
5	332-1486	1	*Δ†£□#□■Block, Terminal	22	**STRIP, MARKER		
6	332-1487	1	*Δ†£□#□■Block, Terminal	332-1663	1	Units with Voltage Codes 3,53 (1-Phase)	
7	323-0765	2	*Δ†£□#□■Socket, Relay				
8	HOUSING, PRINTED CIRCUIT BOARD			332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)	
			Accessory Group 10	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
	332-1271	6	*Voltage Codes 3,53	815-0387	4	Units with Voltage Codes 3,53 (1-Phase)	
	332-1271	9	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1271	8	†Voltage Codes 7,57	815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)	
			Accessory Groups 11,12,13,14,15	24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
	332-1271	7	£Voltage Codes 3,53	812-0066	2	Units with Voltage Codes 3,53 (1-Phase)	
	332-1271	9	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1271	8	ØAccessory Group 20	812-0066	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	25	**COVER, PROTECTIVE		
8A	TERMINAL, PRINTED CIRCUIT BOARD			332-1651	1	Units with Voltage Codes 3,53 (1-Phase)	
			Accessory Group 10				
	332-1269	37	*Voltage Codes 3,53	332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)	
	332-1269	47	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X	26	**WASHER, INSULATOR		
	332-1269	47	†Voltage Codes 7,57	508-0074	2	Units with Voltage Codes 3,53 (1-Phase)	
			Accessory Groups 11,12,13, 14,15				
	332-1269	41	£Voltage Codes 3,53	508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)	
	332-1269	51	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
	332-1269	48	ØAccessory Group 20				
	332-1269	51	■Accessory Groups 21,22,23, 24,25	812-0061	8	Units with Voltage Codes 3,53	

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

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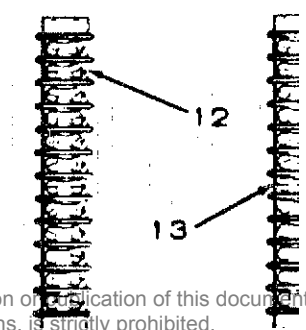
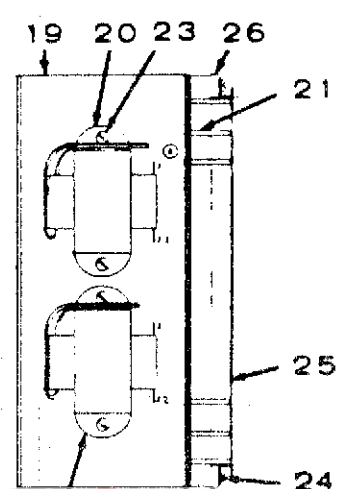
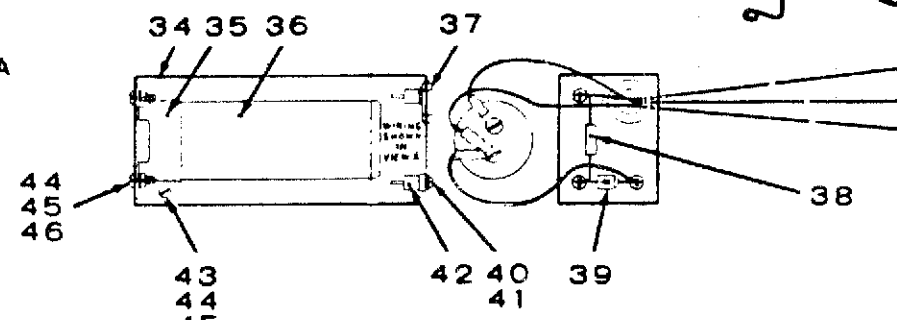
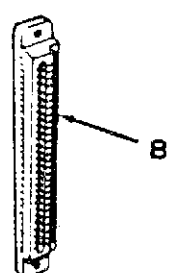
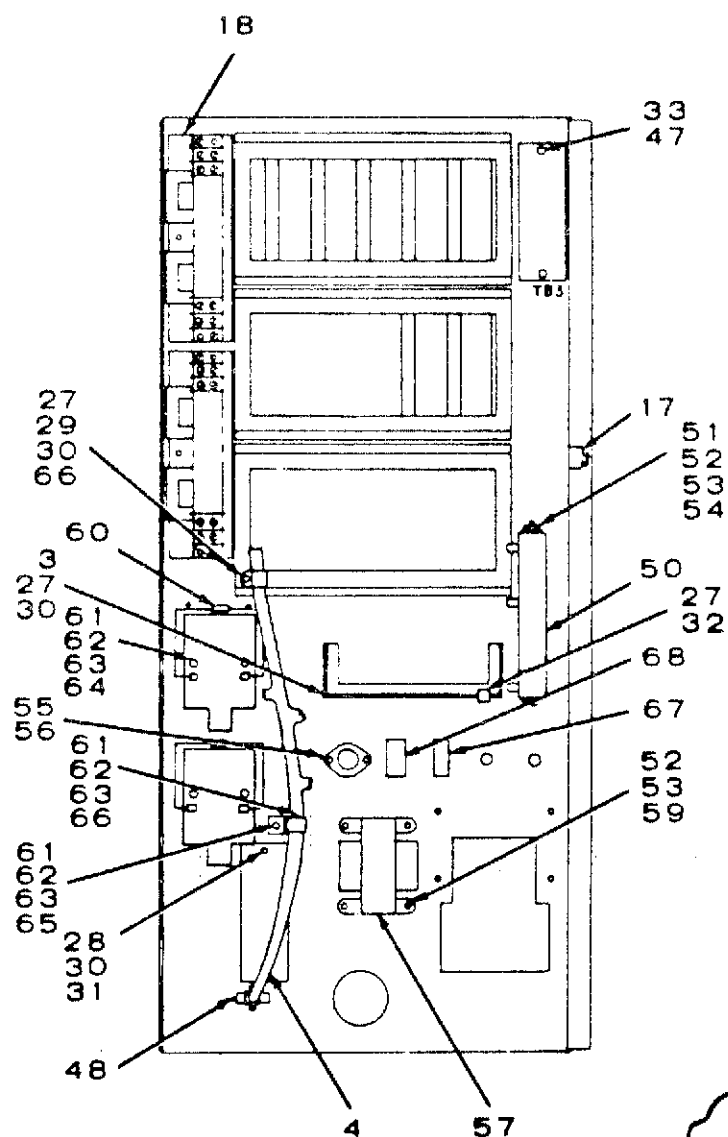
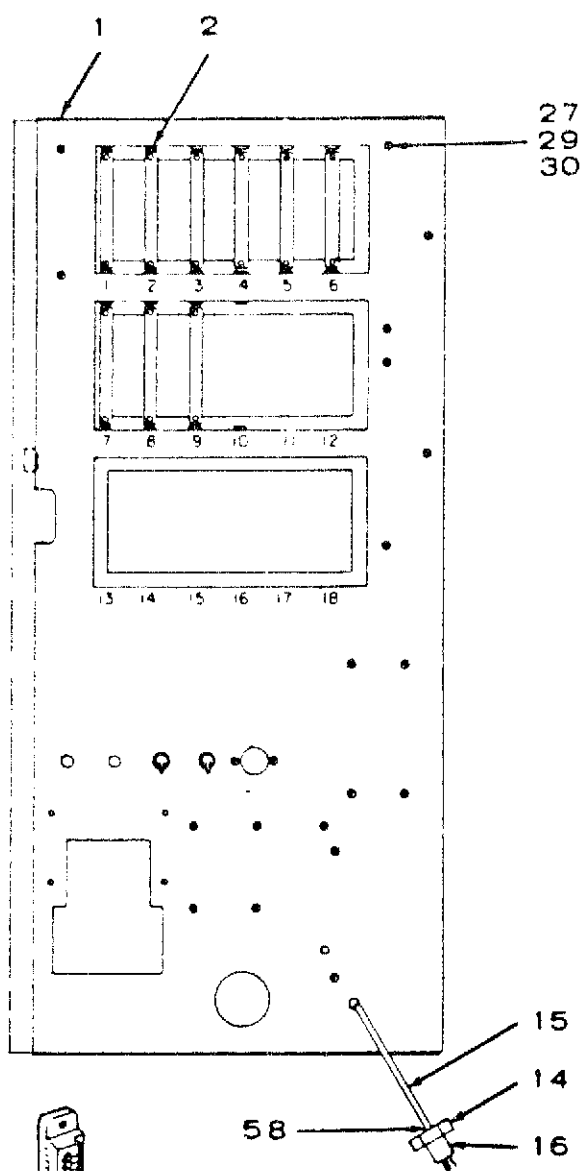
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	13	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X Accessory Groups 11,12,13,14,15	48	332-1969	1	Clamp, Cable
	812-0061	12	Units with Voltage Codes 3,53	50	353-0046	1	Resistor (6-Ohm, 75 Watt) Tapped - Accessory Grp 11,12,13,14,15,21,22,23, 24,25
	812-0061	13	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	51	813-0116	1	Screw, Machine - Round H (#10-32 x 6-1/2") - Acce Groups 11,12,13,14,15,2 22,23,24,25
	812-0061	9	Accessory Group 20	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12 14,15,21,22,23,24,25
	812-0061	11	Accessory Groups 21,22,23, 24,25	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,2 22,23,24,25
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	54	304-0006	2	Washer, Centering - Acce Groups 11,12,13,14,15,2 22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15,2 22,23,24,25
	860-0006	10	Units with Voltage Codes 3,53	56	FUSE 321-0180	1	Accessory Groups 11,12,1 14,15 (2 Ampere)
	860-0006	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X Accessory Groups 11,12,13,14,15	321-0110	1	Accessory Groups 21,22,2 24,25 (1 Ampere)	
	860-0006	12	Units with Voltage Codes 3,53	57	315-0379	1	Transformer, Battery Char Accessory Groups 11,12 14,15,21,22,23,24,25
	860-0006	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	58	503-0721	1	Bushing, Rubber - Access Groups 11,12,13,14,15
	860-0006	11	Accessory Group 20	59	813-0099	4	Screw, Machine - Round H (#10-32 x 7/16") - Acces Groups 11,12,13,14,15,2 22,23,24,25
	860-0006	13	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	61	812-0082	5	Screw, Machine - Round H (#8-32 x 3/4") - Access Groups 20,21,22,23,24,2
	853-0003	10	Units with Voltage Codes 3,53	62	860-0008	5	Nut, Hex (#8-32) - Access Groups 20,21,22,23,24,2
	853-0003	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X Accessory Groups 11,12,13,14,15	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Groups 20,21,22,23,24,2
	853-0003	12	Units with Voltage Codes 3,53	64	307-1537	2	Relay, Power - Accessory Groups 20,21,22,23,24,2
	853-0003	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	65	301-4235	1	Bracket, Harness - Access Groups 20,21,22,23,24,2
	853-0003	11	Accessory Group 20	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,2
	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	808-0008	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

* - 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.
 Ø - 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 Contr

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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**

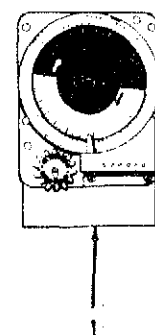
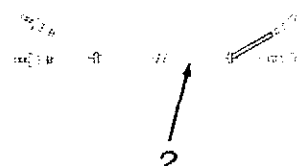
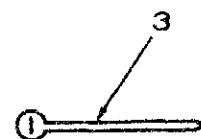
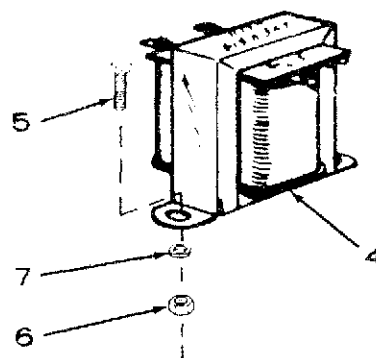
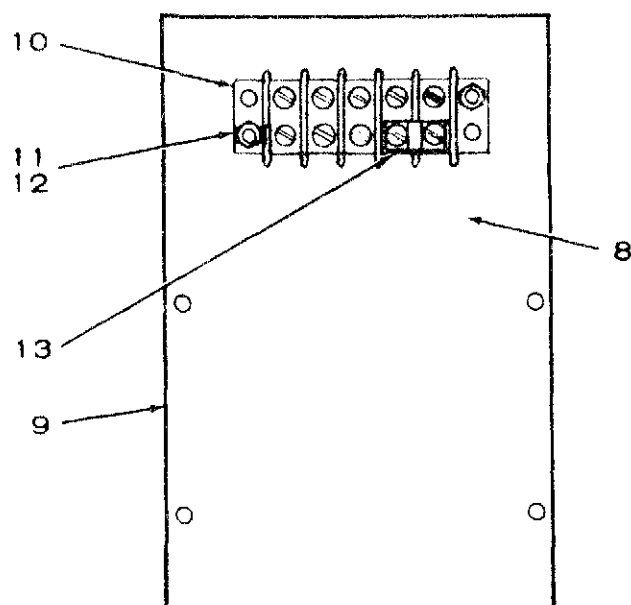
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	22	Accessory Group 10 Units with Voltage Codes 3,53	48	332-1969	1	Clamp, Cable
	812-0061	29	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Group 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 Groups 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	356-0076	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	1	***Washer, Lock - External Tooth (#6)				
45	860-0006	2	***Nut, Hex - Machine (#6-32)				
46	812-0061	1	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	300-1627	1	Control, Start Suppression - Round Head				

* - Parts Included in 338-1157 Harness Assembly.
 A - Parts Included in 338-1156 Harness Assembly.
 B - Parts Included in 338-1196 Harness Assembly.
 C - Parts Included in 338-1155 Harness Assembly.
 D - Parts Included in 338-1139 Harness Assembly.
 E - Parts Included in 338-1155 Harness Assembly.
 F - Parts Included in 338-1159 Harness Assembly.
 G - Parts Included in 338-1158 Harness Assembly.
 H - Parts Included in 315-0374 Transformer Assembly.
 I - Parts Included in 315-0374 Transformer Assembly.
 J - Parts Included in 315-0374 Transformer Assembly.
 K - Parts Included in 315-0374 Transformer Assembly.
 L - Parts Included in 315-0374 Transformer Assembly.
 M - Parts Included in 315-0374 Transformer Assembly.
 N - Parts Included in 315-0374 Transformer Assembly.
 O - Parts Included in 315-0374 Transformer Assembly.
 P - Parts Included in 315-0374 Transformer Assembly.
 Q - Parts Included in 315-0374 Transformer Assembly.
 R - Parts Included in 315-0374 Transformer Assembly.
 S - Parts Included in 315-0374 Transformer Assembly.
 T - Parts Included in 315-0374 Transformer Assembly.
 U - Parts Included in 315-0374 Transformer Assembly.
 V - Parts Included in 315-0374 Transformer Assembly.
 W - Parts Included in 315-0374 Transformer Assembly.
 X - Parts Included in 315-0374 Transformer Assembly.
 Y - Parts Included in 315-0374 Transformer Assembly.
 Z - Parts Included in 315-0374 Transformer Assembly.

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

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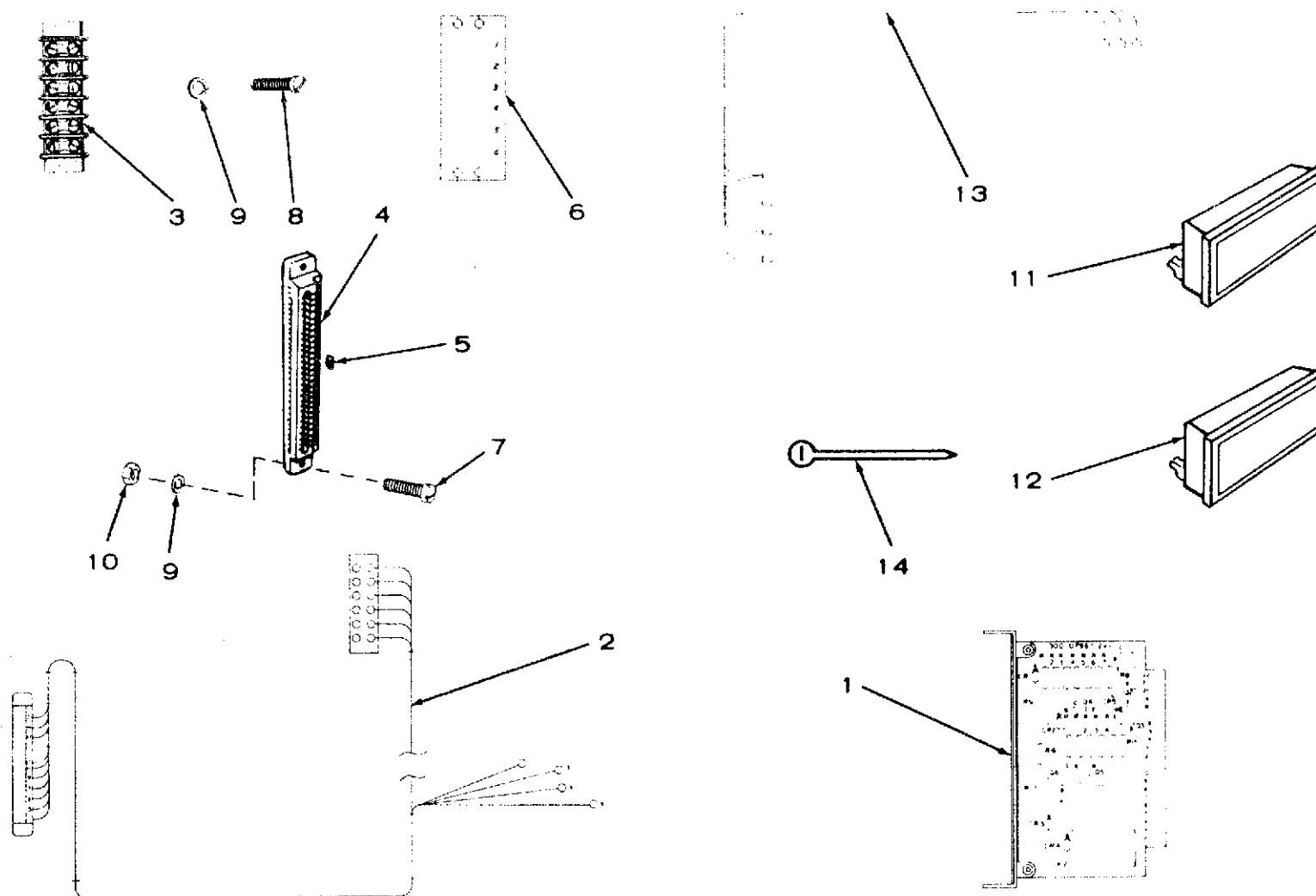
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, EXERCISER CLOCK (COMPLETE) - 60 Hertz		
	307-1652	1	Accessory Groups 10,20, Voltage Codes 3,4,5D,7
	307-1648	1	Accessory Groups 10,20, Voltage Codes 4X,9X (Includes Leads)
	307-1650	1	Accessory Groups 11,15,21, 25, Voltage Codes 3,4,4X, 5D,7,9X
1	SWITCH, 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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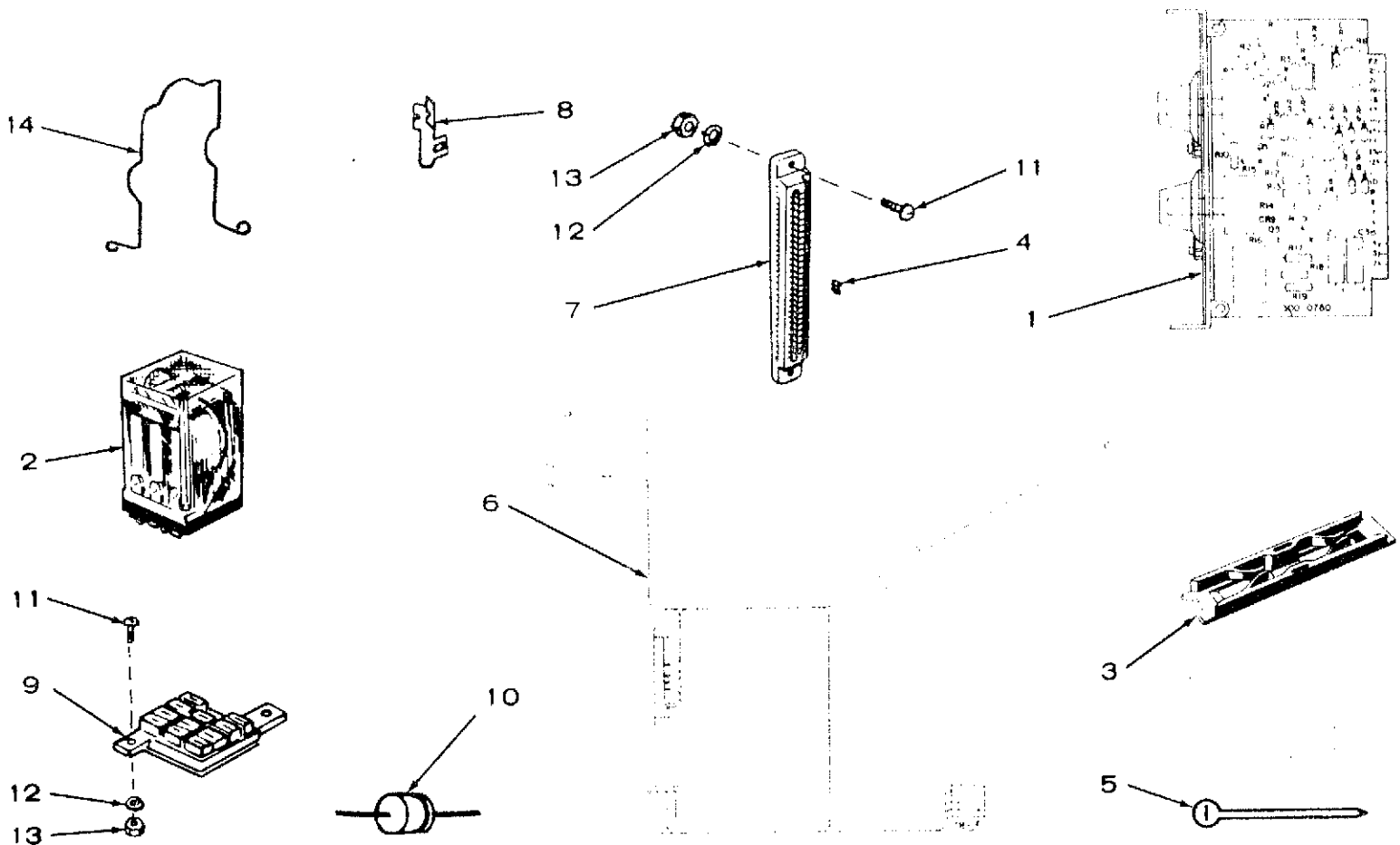


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, BATTERY VOLTAGE (Complete)		
	300-1019	1	12 Volt
	300-1022	1	24 Volt
1	SENSOR, BATTERY VOLTAGE (See Separate Group for Components)		
	300-0796	1	12 Volt
	300-0797	1	24 Volt
2	338-0658	1	Harness, Wiring (Includes Terminal Block and Printed 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 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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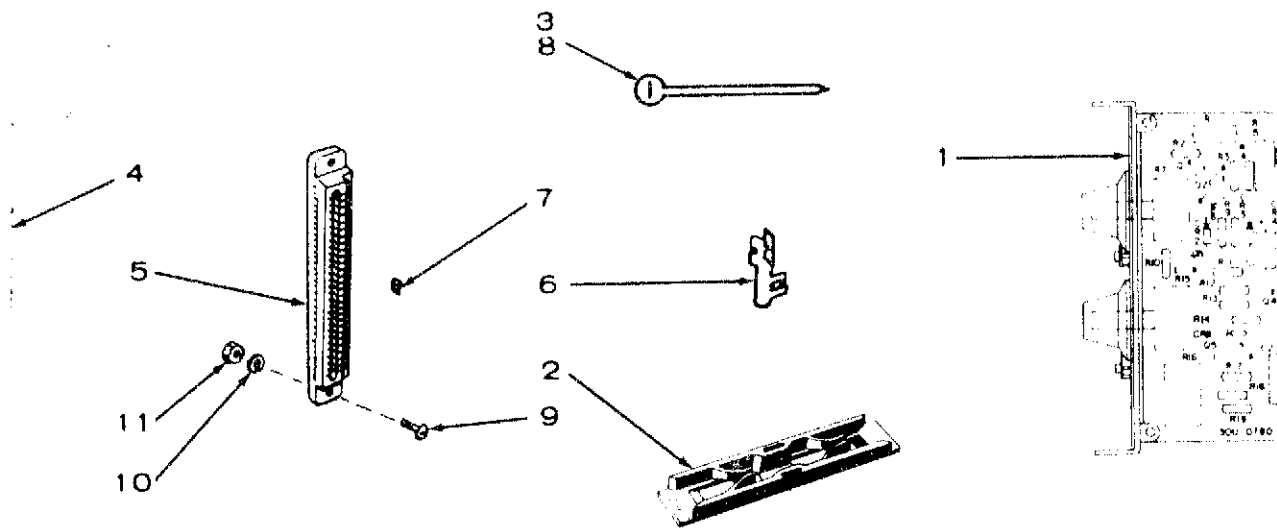
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR KIT, OVER VOLTAGE (Complete)		
	300-1020	1	1 Phase Units
	300-1021	1	3 Phase Units
1	SENSOR, VOLTAGE		
	300-0780	1	1 Phase Units
	300-0780	3	3 Phase Units
2	307-1058	1	Relay
3	GUIDE, PRINTED CIRCUIT BOARD		
	Spec A		
	323-0814	2	1 Phase Units
	323-0814	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 *)

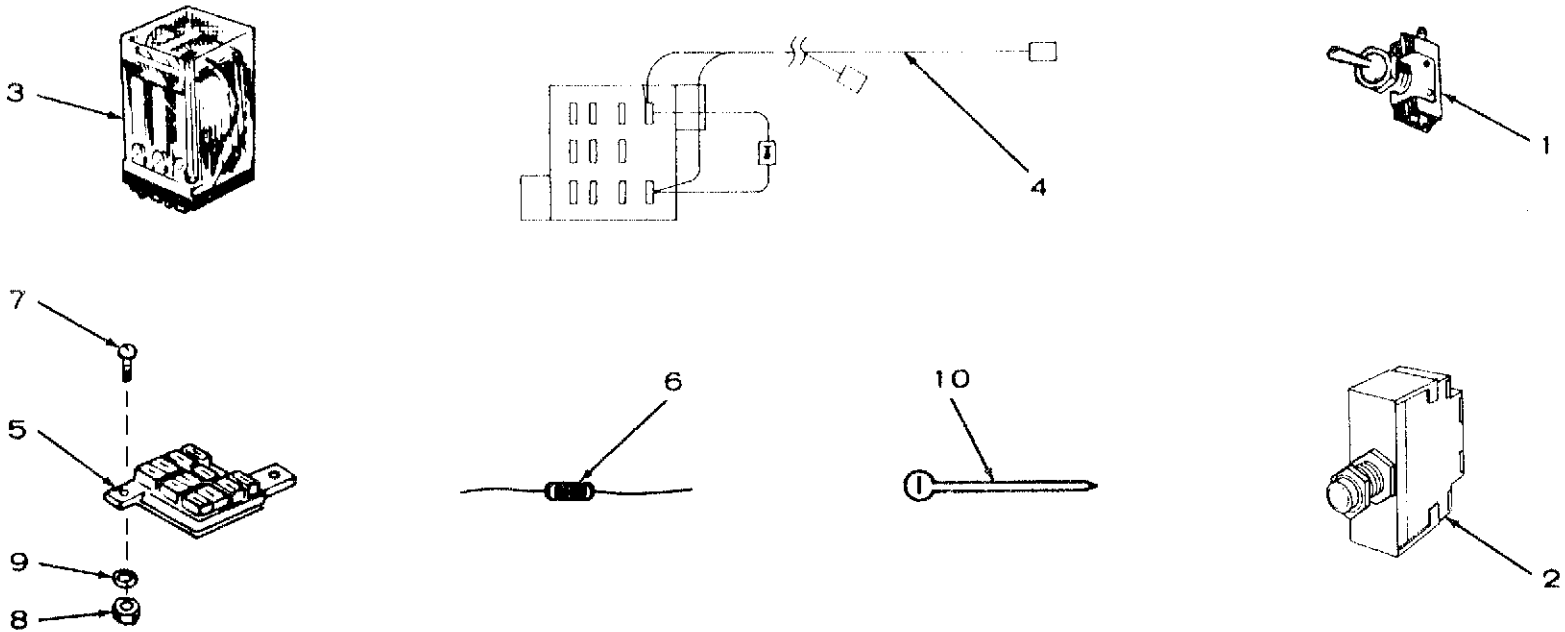
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2107	1	†Housing, Printed Circuit Board Terminal
6	TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	7	†Spec A
	332-1269	6	†Spec A
	332-2108	13	*Begin Spec B
7	332-2114	1	†Plug, Keying
8	332-0942	12	†Tie, Cable
9	812-0061	2	Screw, Machine - Round Head (#6-32 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)

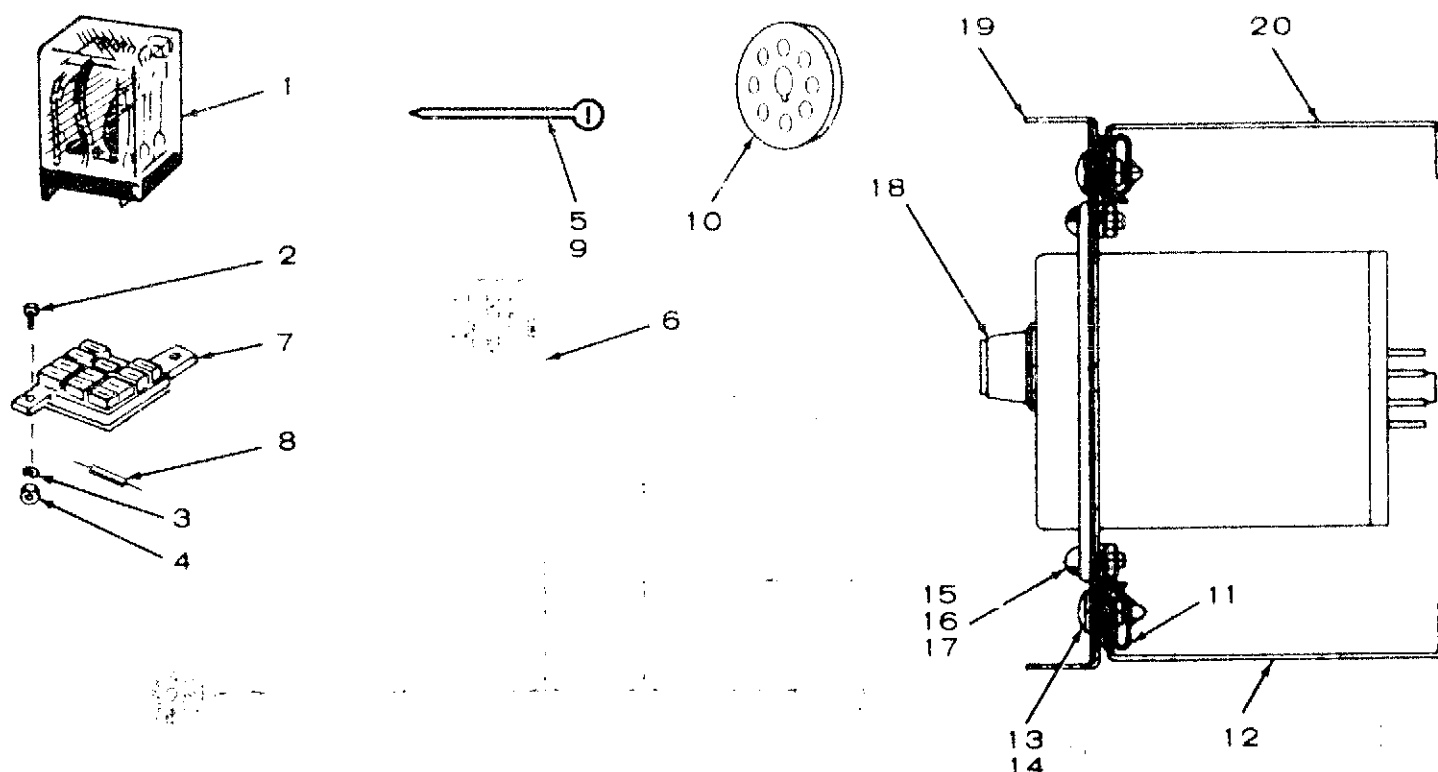
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	308-0343	1	Switch Package - Retransfer (Complete)	6	357-0004	1	Wiring Harness)
1	308-0321	1	Switch, Manual and Automatic				Rectifier, Diode (Part of Wiring Harness)
2	308-0175	1	Switch, Retransfer	7	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
3	307-1058	1	Relay	8	860-0006	2	Nut, Hex - Machine (#6-32)
4	338-1061	1	Harness, Wiring (Includes Diode and Socket)	9	853-0003	2	Washer, Lock - ET (#6)
5	323-0765	1	Socket, Relay (Part of	10	332-0942	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)

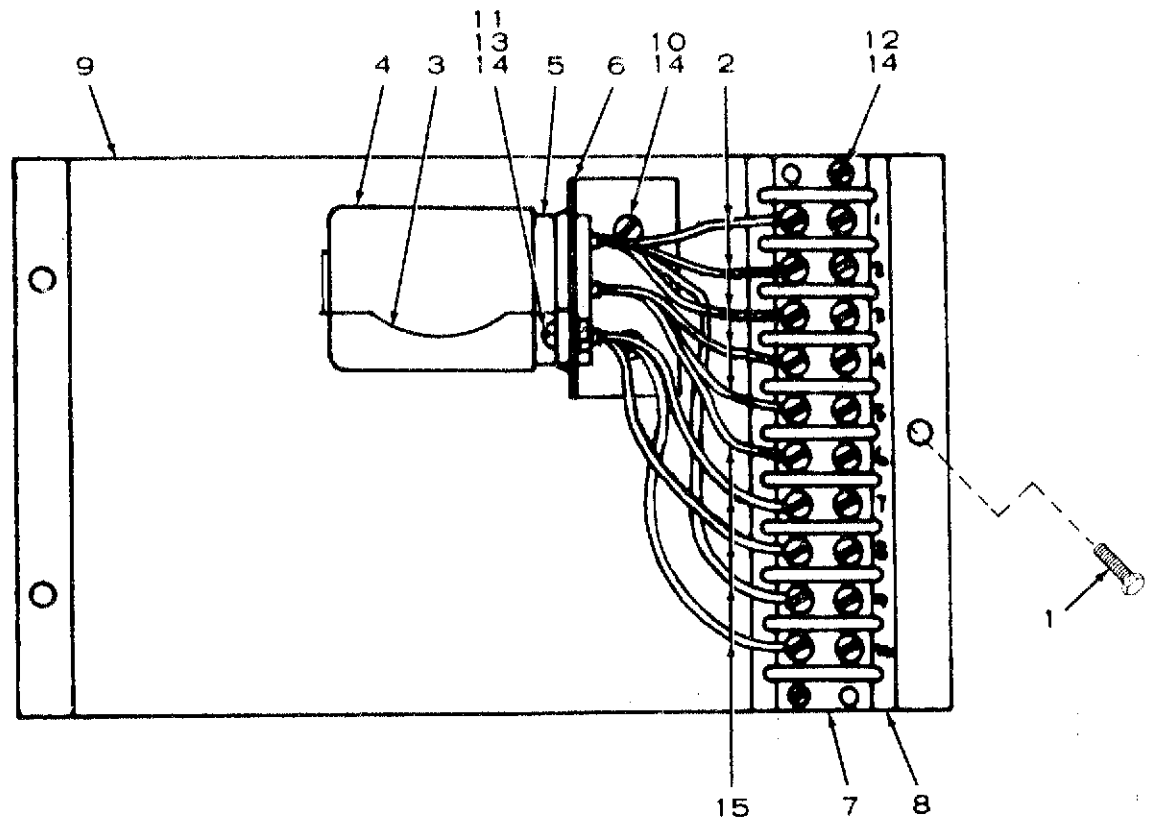
* - Parts Included in 307-1285 Time Delay Package.

• - Parts Included in 338-0677 Wiring Harness.

† - Parts Included in 307-1199 Time Delay Package.

AUXILIARY STARTING CONTACTS RELAY ASSEMBLY - OPTIONAL WIRE IN

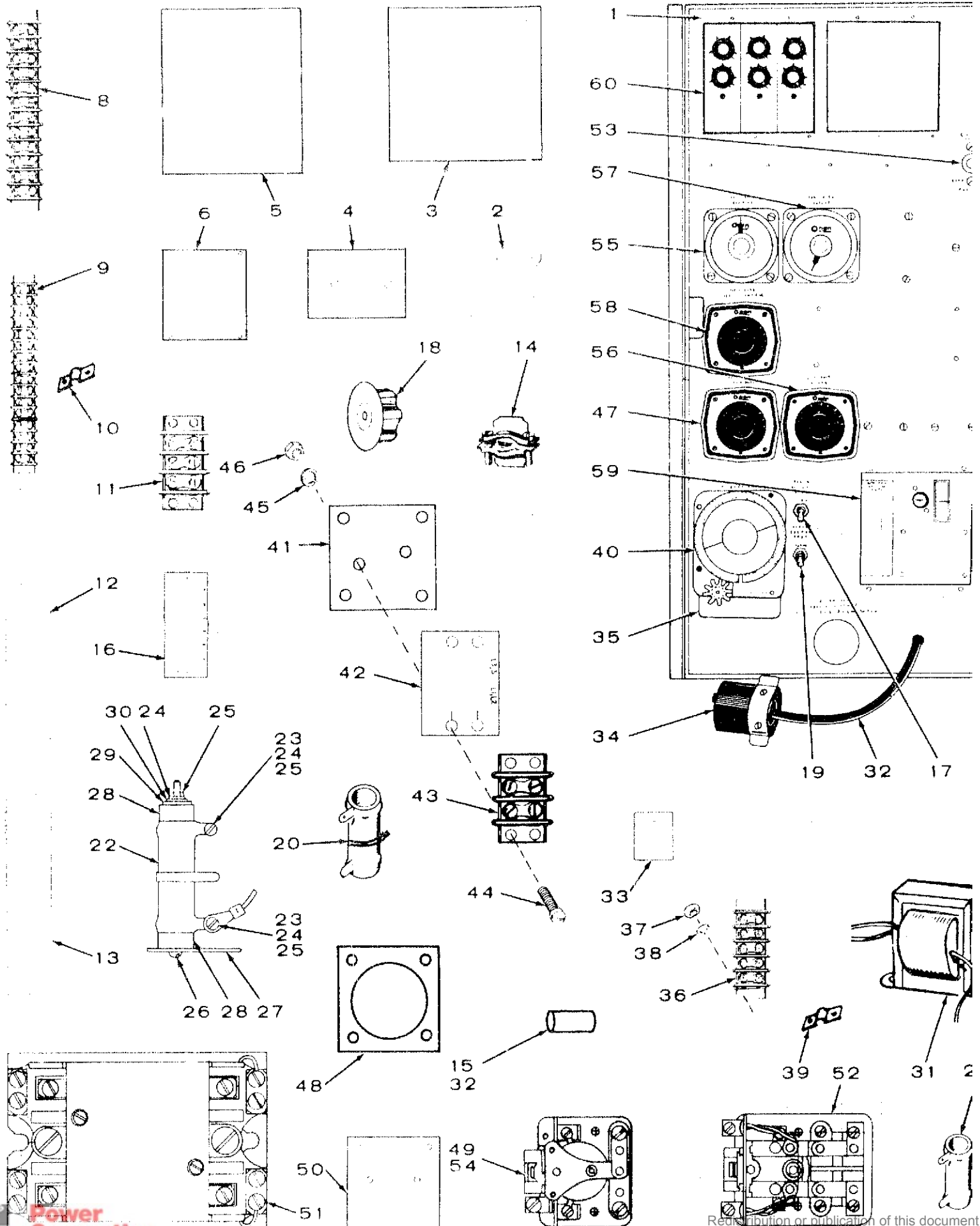
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	RELAY PACKAGE, AUXILIARY STARTING CONTACTS		
	307-1320	1	For Units with 12 Volt Starting Circuit (D & E)
	307-1321	1	For Units with 24 Volt Starting Circuit (C)
1	815-0387	3	Screw, Machine - Pan Head Cross 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	405-187	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)	
8	332-1468	1	#□£†Δ*Block, Terminal (12 Place)	508-0015	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
9	332-0795	1	#□£†Δ*Block, Terminal (16 Place)	30	WASHER, FLAT (1/2" ID x 3/8" OD x 1/32" Thk)		
10	332-1043	2	#□£†Δ*Jumper, Terminal	526-0048	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	
11	332-0611	1	£Block, Terminal (3 Place)	526-0048	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	
12	332-1699	1	Strip, Marker (Remote. B+, Gnd, 1 thru 11, 55)	31	TRANSFORMER		
13	332-1469	1	Strip, Marker (1 thru 12)	315-0153	1	Units with Voltage Codes 4X,54X (480 Volt)	
14	332-1969	1	Clamp, Cable	315-0365	1	Units with Voltage Codes 9X,59X (600 Volt)	
15	503-0721	1	Bushing, Rubber	32	503-0801	1	Hose, Insulating
16	332-1968	1	Strip, Marker (2 and 3) - Voltage Codes 4X,9X,54X,59X	33	301-3765	2	Plate, Panel Interlock
				34	323-0901	1	Plug, Line Disconnect
				35	301-3487	1	Plate, Cover - Exerciser
17	SWITCH, SELECTOR						Clock Opening - Accessory Groups 51,52
	308-0138	1	Units with 2 Wire Starting Circuits (C & D)	36	332-0604	1	Terminal, Block (5 Place) - Accessory Groups 51,52
	308-0193	1	Units with 3 Wire Starting Circuits (E)	37	860-0006	2	Nut, Hex (#6-32) - Accessory Groups 51,52
18	303-0076	1	Knob, Switch - Units with 3 Wire Starting Circuits	38	850-0020	2	Washer, Lock - Spring (#6) Accessory Groups 51,52
19	308-0069	1	Switch, Test-Transfer	39	332-1043	1	Jumper, Terminal Block - Accessory Groups 51,52
20	RESISTOR			40	CLOCK, PLANT EXERCISER		
	304-0131	1	Voltage Codes 3,4,5d,7,53,54,55D,57 (750-ohm, 25 Watt)				Voltage Codes 3,4,5D,7,53,54,55D,57
	304-0563	1	Voltage Codes 4X,9X,54X,59X (2500-ohm, 25 Watt)	307-1103	1	60 Hertz	
21	353-0055	1	Resistor (3-ohm, 10 Watt) - Units with 3 Wire Starting (E)	307-1105	1	50 Hertz	
22	RESISTOR (500-ohm, 25 Watt)						Voltage Codes 4X,9X,54X,59X
	304-0094	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	307-1102	1	60 Hertz	
	304-0094	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	307-1104	1	50 Hertz	
23	SCREW, MACHINE - ROUND HEAD (#6-32 x 1/4")			41	PLATE, RELAY BYPASS		
	812-0059	2	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)	301-3837	3	Accessory Group 51	
	812-0059	4	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)	301-3837	2	Accessory Groups 52,53,54	
				42	STRIP, MARKER		
							Accessory Group 51
							2 Place (L3,5-L11,2)
							Voltage Codes 3,4,5D,7

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		2 Place	307-0663	1	Voltage Codes 4R,9X,54X,59X	
	332-1937	3	Accessory Group 51	53	320-0221	1	Limiter, Cranking - Three Wire Starting Circuit
	332-1937	2	Accessory Groups 52,53,54	54	RELAY, PHASE PROTECTION		
	332-0611	1	3 Place - Voltage Codes 3,53	307-1114	1	Voltage Code 4	
44	SCREW, MACHINE - ROUND HEAD (#6-32 x 5/8")		Accessory Group 51	307-1081	1	Voltage Code 5D	
	812-0065	8	Voltage Codes 3,53	307-1119	1	Voltage Code 4X	
	812-0065	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	307-1425	1	Voltage Code 9X	
			Accessory Groups 52,53,54	307-1081	2	Voltage Code 7	
	812-0065	6	Voltage Codes 3,53	55	RELAY, TIME DELAY ON RETRANSFER - ACCESSORY GROUPS 52,53,54,55		
	812-0065	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	307-0724	1	Voltage Codes 3,4,5D,7,53,54,55D,57	
	812-0065	2	Accessory Group 55, Voltage Codes 3,53	307-0722	1	Voltage Codes 4X,9X,54X,59X	
45	WASHER, LOCK - EIT (#6)		Accessory Group 51	56	RELAY, TIME DELAY ON STARTING - ACCESSORY GROUPS 54,55		
	856-0001	8	Voltage Codes 3,53	307-1158	1	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	307-1159	1	Voltage Codes 4X,9X,54X,59X	
			Accessory Groups 52,53,54	57	RELAY, TIME DELAY ON STOPPING - ACCESSORY GROUPS 55		
	856-0001	6	Voltage Codes 3,53				Voltage Codes 3,4,5D,7,53,54,55D,57
	856-0001	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	307-0724	1	2 Wire Starting Circuit (C & D)	
	856-0001	2	Accessory Group 55, Voltage Codes 3,53	307-1419	1	3 Wire Starting Circuit (E)	
46	NUT, HEX - MACHINE (#6-32)		Accessory Group 51	307-0722	1	2 Wire Starting Circuit (C & D)	
	860-0006	8	Voltage Codes 3,53	307-1417	1	3 Wire Starting Circuit (E)	
	860-0006	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	58	307-1450	1	Relay Package, Time Delay on Pre-Heat - For 3 Wire Starting Circuit (E) - Optional Wire In
			Accessory Groups 52,53,54	59	CHARGER PACKAGE, BATTERY - OPTIONAL WIRE IN (See Separate Groups for Components)		
	860-0006	6	Voltage Codes 3,53	305-0562	1	120 Volt AC Input, 12 Volt DC - 300 Milliampere Output	
	860-0006	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59	305-0563	1	208/240 Volt AC Input, 12 Volt DC - 300 Milliampere Output	
	860-0006	2	Accessory Group 55, Voltage Codes 3,53	305-0568	1	208/240 Volt AC Input, 12 Volt DC - 2 Ampere Output	
47	RELAY, TIME DELAY ON TRANSFER - ACCESSORY GROUP 55			305-0570	1	208/240 Volt AC Input, 24 Volt DC - 2 Ampere Output	
	307-1144	1	Voltage Codes 3,4,5D,7,53,54,55D,57	305-0569	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output	
	307-1162	1	Voltage Codes 4,54X	305-0571	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output	
	307-1424	1	Voltage Codes 9,59X	60	SENSOR PACKAGE, VOLTAGE - OPTIONAL WIRE IN (See Separate Groups for Components)		
48	MOUNTING PACKAGE - RELAY			300-1365	1	Over or Under Voltage (120 Volt, 1 Phase)	
	301-3315	1	Accessory Group 54	300-1366	1	Over and Under Voltage (120 Volt, 1 Phase)	
	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				
	307-1114	1	Voltage Codes 4,54				

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

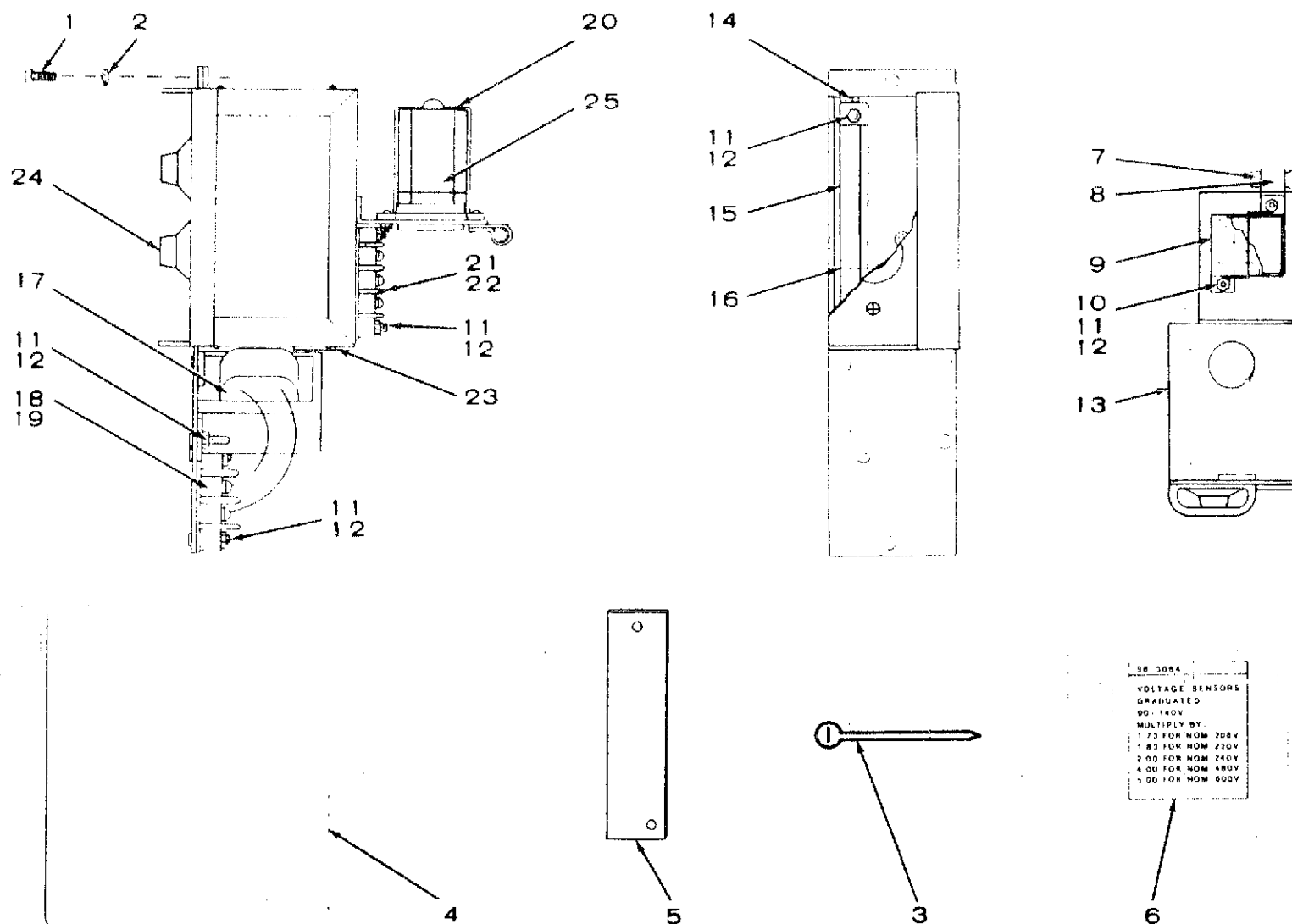
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-1367	1	Over or Under Voltage (208-240 Volt, 1 Phase)		300-1376	1	Over Voltage (480 Volt, 3 Phase)
	300-1368	1	Over and Under Voltage (208-240 Volt, 1 Phase)		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 338-0923 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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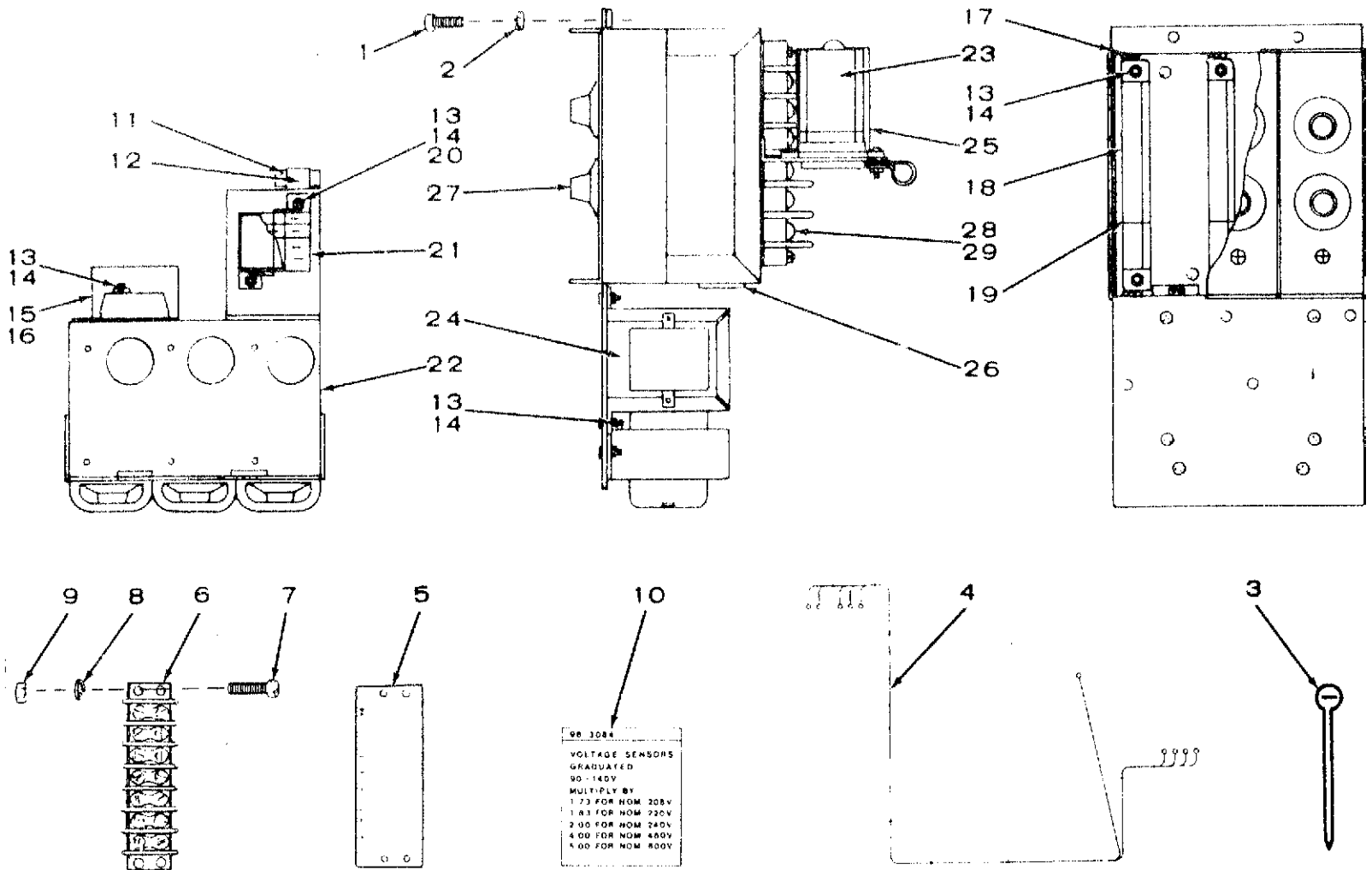
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)				9	323-0765	1	Socket, Relay
	300-1365	1	Over or Under (1)	10	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")
	300-1366	1	Over and Under (1)	11	860-0006	10	Nut, Hex - Machine (#6-32)
	300-1367	1	Over or Under (3)	12	853-0003	10	Washer, Lock - ET (#6)
	300-1368	1	Over and Under (3)	13	301-4067	1	Rack, Chassis
1	812-0061	3	Screw, Machine - Round Head (#6-32 x 3/8")	14	323-0814	2	Guide, Printed Circuit Board
2	853-0003	3	Washer, Lock - ET (#6)	15	332-2107	1	Housing, Printed Circuit Board Terminal
3	332-0942	6	Tie, Cable	16	332-2114	1	Plug, Keying
4	338-1004	1	Harness, Wiring	17	TRANSFORMER		
5	301-4088	1	Plate, Cover (Packages with Over or Under Voltage Sensors)		315-0360	1	120 Volt, 1 Phase
6	98-3034	1	Decal, Voltage Sensors Graduated Voltage		315-0361	1	208-240 Volt, 1 Phase
7	356-0067	1	Capacitator Assembly (Includes Terminal and Leads)	18	332-1937	1	Block, Terminal
8	332-1414	1	Clamp, Loop	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

98-3034

VOLTAGE SENSORS
GRADUATED
90 - 140V
MULTIPLY BY:
1.73 FOR NOM 208V
1.83 FOR NOM 220V
2.00 FOR NOM 240V
4.00 FOR NOM 480V
5.00 FOR NOM 600V

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
	356-0072	1	Under Voltage

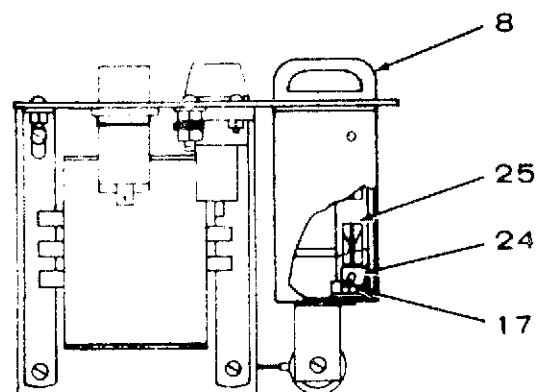
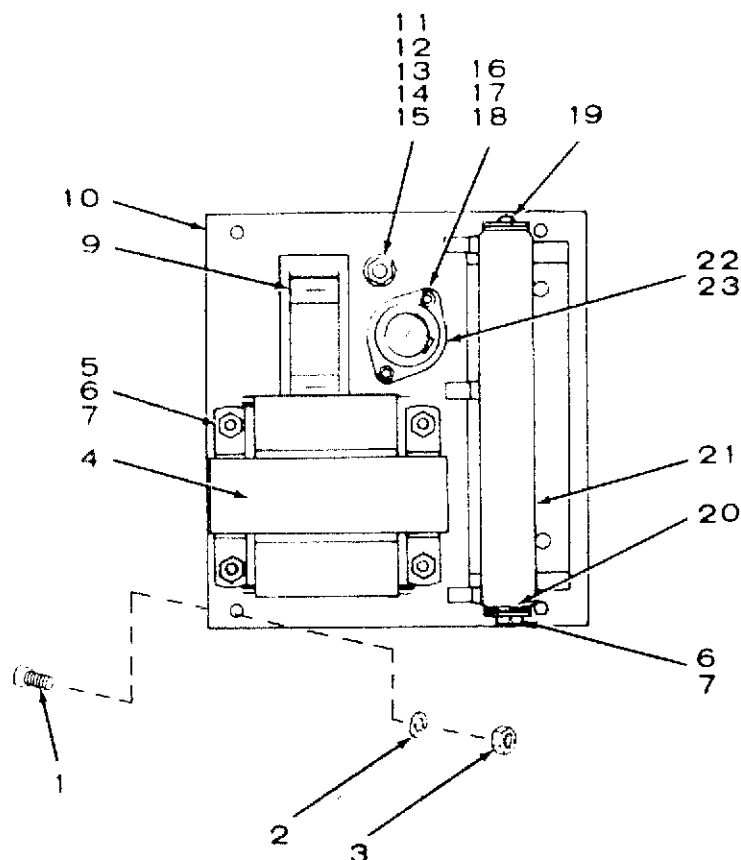
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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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				Over and Under Voltage Sensors
17	GUIDE, PRINTED CIRCUIT BOARD 323-0814	1	Over or Under Voltage Sensors		315-0361	2	4,5D, 3 Phase
	323-0814	2	Over and Under Voltage Sensors		315-0362	2	4X, 3 Phase
18	HOUSING, PRINTED CIRCUIT BOARD TERMINAL 332-2107	3	Over or Under Voltage Sensors		315-0363	2	9X, 3 Phase
	332-2107	6	Over and Under Voltage Sensors	25	SPRING, RELAY HOLDDOWN 307-1157	1	Over or Under Voltage Sensors
19	PLUG, KEYING 332-2114	3	Over or Under Voltage Sensor		307-1157	2	Over and Under Voltage Sensors
	332-2114	6	Over and Under Voltage Sensor	26	BUSHING, SNAP 331-0102	3	Over or Under Voltage Sensors
20	SCREW, MACHINE - ROUND HEAD (#6-32 x 5/8") 812-0065	2	Over or Under Voltage Sensor		331-0102	6	Over and Under Voltage Sensors
	812-0065	4	Over and Under Voltage Sensor	27	MODULE, VOLTAGE SENSOR (See Separate Group for Components) 300-0780	3	Over or Under Voltage Sensors
21	SOCKET, RELAY 323-0765	1	Over or Under Voltage Sensors		300-0780	6	Over and 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

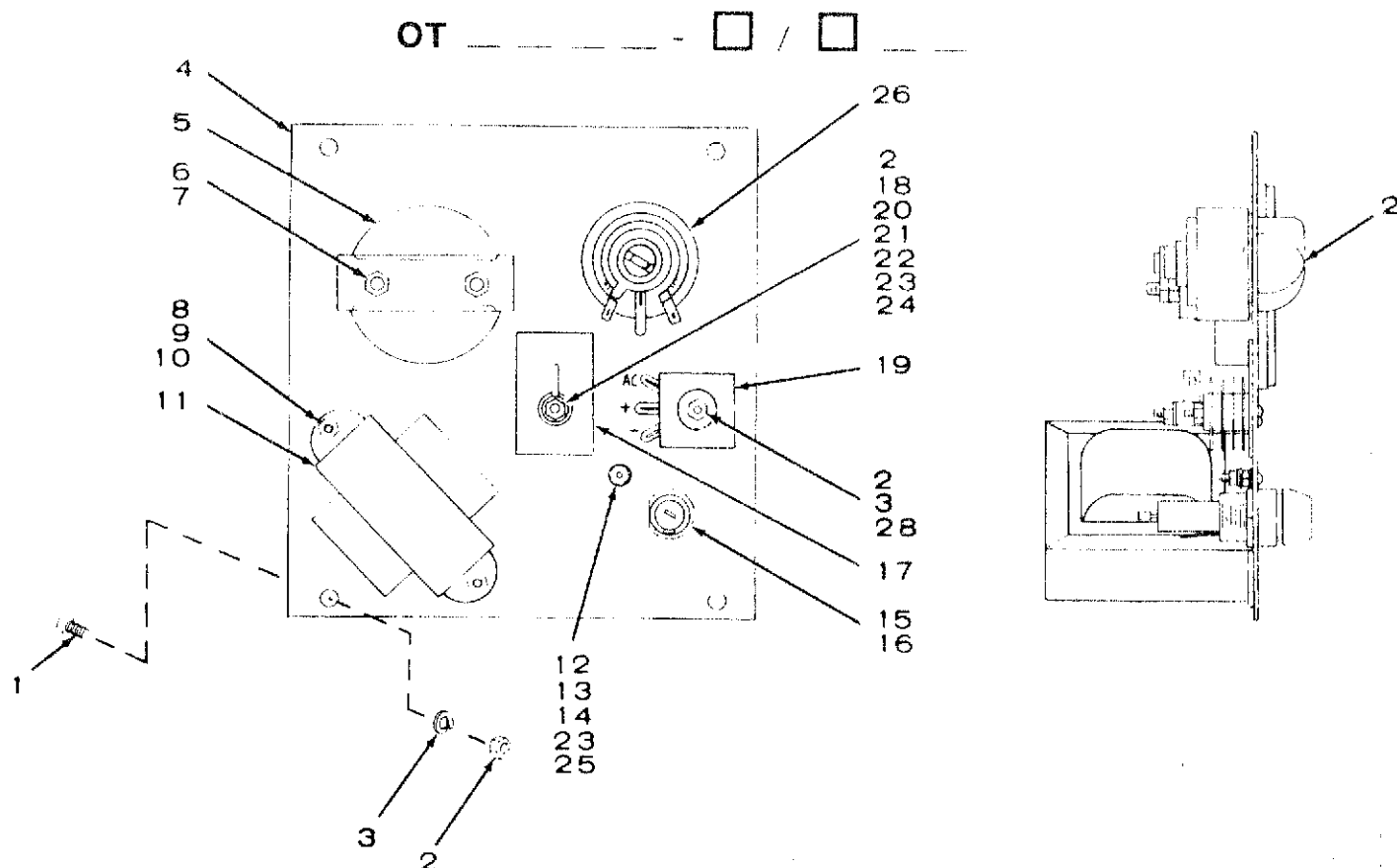
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CHARGER PACKAGE, BATTERY (2 Ampere) - OPTIONAL WIRE IN		
	305-0568	1	3,4,5D AC Input, 12 Volt DC Output
	305-0570	1	3,4,5D AC Input, 24 Volt DC Output
	305-0569	1	4X, 9X AC Input, 12 Volt DC Output
	305-0571	1	4X, 9X DC Input, 24 Volt DC Output
1	812-0077	4	Screw, Machine - Round Head (#8-32 x 3/8")
2	853-1005	4	Washer, Lock - ET (#8)
3	860-0008	4	Nut, Hex - Machine (#8-32)
4	315-0379	1	Transformer, Battery Charger
5	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16")
6	853-0008	5	Washer, Lock - ET (#10)
7	870-0053	5	Nut, Hex - Machine (#10-32)
8	MODULE, BATTERY CHARGER (See Separate Groups for Components)		
	300-0793	1	12 Volt DC Output
	300-0794	1	24 Volt DC Output

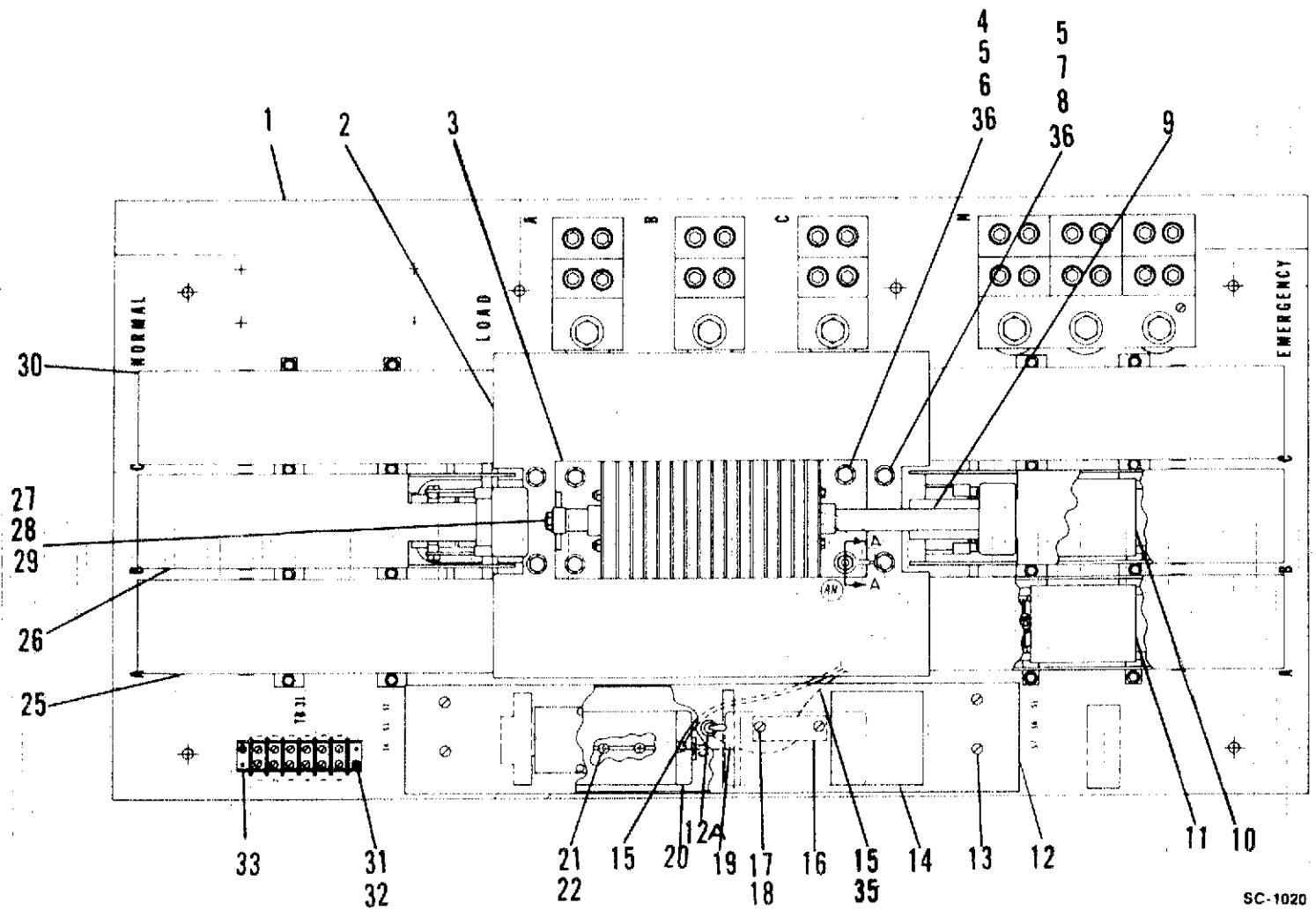
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	302-0807	1	Ammeter, DC
10	301-4148	1	Rack, Chassis
11	810-0081	1	Screw, Machine - Round Head Brass (#8-32 x 5/8")
12	856-0002	1	Washer, Lock - EIT (#8)
13	871-0007	2	Nut, Hex - Machine (#8-32)
14	853-0005	1	Washer, Lock - ET (#8)
15	526-0048	1	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
16	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
17	853-0003	4	Washer, Lock - ET (#6)
18	860-0006	4	Nut, Hex - Machine (#6-32)
19	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2")
20	304-0006	2	Washer, Centering
21	353-0046	1	Resistor (6-Ohm, 75 Watt)
22	321-0178	1	Holder, Fuse
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



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

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)



SC-1020

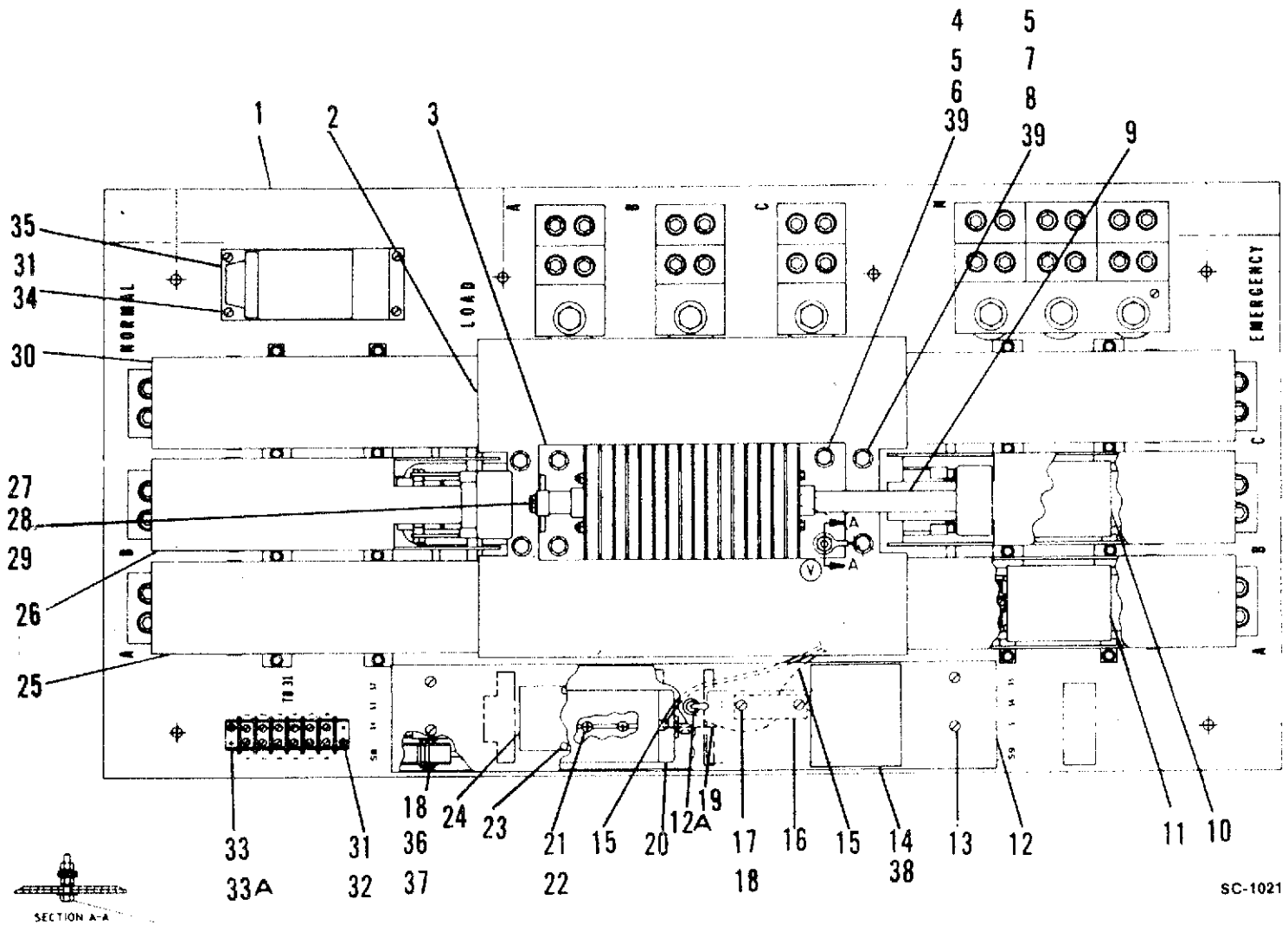
TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)			11	306-1041	4	Barrier, Arc Chute
			2 Pole	12	306-0641	1	Cover Assembly, Auxiliary Switch (Includes Toggle Switch and Leads)
			Standard	12A	308-0406	1	Switch, Toggle (Part of 306-0641 Cover Assembly)
	306-1154	1	110/120 Volt, 50/60 Hertz	13	815-0364	1	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
	306-1155	1	208/220/240 Volt, 50/60 Hertz	14	98-3489	1	Label, Instructions
	306-1156	1	347 Volt, 50/60 Hertz	15	332-2211	3	Terminal, Receptacle
	306-1157	1	440/480 Volt, 50/60 Hertz	16	BREAKER, CIRCUIT		
			Rear Connected		320-0613	1	110/120 Volt, 50/60 Hertz
	306-1158	1	110/120 Volt, 50/60 Hertz		320-0611	1	208/220/240 Volt, 50/60 Hertz
	306-1159	1	208/220/240 Volt, 50/60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
	306-1160	1	347 Volt, 50/60 Hertz		320-0609	1	440/480 Volt, 50/60 Hertz
	306-1161	1	440/480 Volt, 50/60 Hertz	17	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
			3 Pole	18	870-0183	2	Nut, Hex - W/ET (#6-32)
			Standard	19	336-2787	1	Leads - 347/440/480 Volt, 50/60 Hertz
	306-0860	1	110/120 Volt, 50/60 Hertz	20	CAPACITOR		
	306-0861	1	208/220/240 Volt, 50/60 Hertz		312-0202	1	110/120 Volt, 50/60 Hertz
	306-0862	1	347 Volt, 50/60 Hertz		312-0218	1	208/220/240 Volt, 50/60 Hertz
	306-0863	1	440/480 Volt, 50/60 Hertz		312-0205	2	347 Volt, 50/60 Hertz
			Rear Connected		312-0204	2	440/480 Volt, 50/60 Hertz
	306-0866	1	110/120 Volt, 50/60 Hertz	21	SCREW, MACHINE - FLAT HEAD (#10-32 x 7/8")		
	306-0867	1	208/220/240 Volt, 50/60 Hertz		815-0165	2	110/120/208/220/240 Volt, 50/60 Hertz
	306-0868	1	347 Volt, 50/60 Hertz		815-0165	4	347/440/480 Volt, 50/60 Hertz
	306-0869	1	440/480 Volt, 50/60 Hertz	22	WASHER, LOCK - ET (#10)		
1	SWITCHING ASSEMBLY (See Separate Group for Components)				855-0008	2	110/120/208/220/240 Volt, 50/60 Hertz
	306-1140	1	2 Pole, 1 Phase - Standard		855-0008	4	347/440/480 Volt, 50/60 Hertz
	306-1141	1	2 Pole, 1 Phase - Rear Connected	25	306-0331	2	Cover, Contact (LH)
	306-0822	1	3 Pole, 3 Phase - Standard	26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units)
	306-0823	1	3 Pole, 3 Phase - Rear Connected	27	306-1385	2	Rod End Assembly - Actuator
2	306-0804	1	Plate, Motor Mounting	28	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
3	ACTUATOR, LINEAR			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 (1/4-20 x 5/8")	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)
	850-0040	8	2 Pole, 1 Phase	37	800-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
	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				
7	800-0187	4	Screw, Cap - Hex Head (1/4-20 x 5")				
8	306-0602	4	Spacer, Actuator Mounting				
9	306-0642	1	Rod, Actuator				
10	306-1038	2	Barrier, Arc Chute - 3 Pole, 3 Phase Units				

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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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	98-3489	1	Label, Instructions
2 Pole				15	332-2211	3	Terminal, Receptacle
Standard				16	BREAKER, CIRCUIT		
306-1209	1		208/220 Volt, 50/60 Hertz		320-0611	1	208/220/240 Volt, 50/60 Hertz
306-1209	1		240 Volt, 60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
306-1210	1		240 Volt, 50 Hertz		320-0609	1	440/480 Volt, 50/60 Hertz
306-1211	1		347 Volt, 50/60 Hertz	17	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
306-1212	1		440/480 Volt, 50/60 Hertz	18	870-0183	6	Nut, Hex W/ET (#6-32)
Rear Connected				19	336-2787	1	Lead Assembly - 347/440/480 Volt, 50/60 Hertz
306-1214	1		208/220 Volt, 50/60 Hertz	20	CAPACITOR		
306-1214	1		240 Volt, 60 Hertz		312-0218	1	208/220/240 Volt, 50/60 Hertz
306-1215	1		240 Volt, 50 Hertz		312-0205	2	347 Volt, 50/60 Hertz
306-1216	1		347 Volt, 50/60 Hertz		312-0204	2	440/480 Volt, 50/60 Hertz
306-1217	1		440/480 Volt, 50/60 Hertz	21	SCREW, MACHINE - FLAT (#10-32 x 7/8")		
3 Pole					815-0165	2	208/220/240 Volt, 50/60 Hertz
Standard					815-0165	4	347/440/480 Volt, 50/60 Hertz
306-1199	1		208/220 Volt, 50/60 Hertz	22	WASHER, LOCK - ET (#10)		
306-1199	1		240 Volt, 60 Hertz		855-0008	2	208/220/240 Volt, 50/60 Hertz
306-1200	1		240 Volt, 50 Hertz		855-0008	4	347/440/480 Volt, 50/60 Hertz
306-1201	1		347 Volt, 50/60 Hertz	25	306-0331	2	Cover, Contact (LH)
306-1202	1		440/480 Volt, 50/60 Hertz	26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units
Rear Connected				27	306-1385	2	Rod End, Actuator
306-1204	1		208/220 Volt, 50/60 Hertz	28	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
306-1204	1		240 Volt, 60 Hertz	29	850-0045	2	Washer, Lock - Spring (5/16")
306-1205	1		240 Volt, 50 Hertz	30	306-0333	2	Cover, Contact (RH)
306-1206	1		347 Volt, 50/60 Hertz	31	854-0007	6	Washer, Lock - IT (#8)
306-1207	1		440/480 Volt, 50/60 Hertz	32	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
1	SWITCH ASSEMBLY (See Separate Group for Components)			33	338-1115	1	Harness, Wiring (Includes Terminal Block)
306-1140	1		2 Pole, 1 Phase - Standard	33A	332-1541	1	Block, Terminal (Part of Wiring Harness #338-1115)
306-1141	1		2 Pole, 1 Phase - Rear Connected	34	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
306-0822	1		3 Pole, 3 Phase - Standard	35			Relay Assembly (Consists of Indented Parts:)
306-0823	1		3 Pole, 3 Phase - Rear Connected		301-4577	1	Bracket, Relay Mounting
2	306-0804	1	Plate, Motor Mounting				Relay, Time Delay (Includes Mounting Hardware)
3	ACTUATOR, LINEAR				307-1628	1	208/220 Volt, 50/60 Hertz
306-0843	1		208/220/240 Volt, 50/60 Hertz		307-1628	1	240 Volt, 60 Hertz
306-0842	1		347 Volt, 50/60 Hertz		307-1629	1	240 Volt, 50 Hertz
306-0841	1		440/480 Volt, 50/60 Hertz		307-1630	1	347 Volt, 50/60 Hertz
4	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")		307-1631	1	440/480 Volt, 50/60 Hertz
5	850-0040	9	Washer, Lock - Spring (1/4")	36	309-0297	2	Switch, Snap Action
6	862-0001	5	Nut, Hex (1/4-20)	37	306-0281	4	Barrier, Switch
7	800-0187	4	Screw, Cap - Hex Head (1/4-20 x 5")	38	332-0942	10	Tie, Cable
8	306-0602	4	Spacer, Actuator Mounting	39	526-0018	10	Washer, Flat (17-64" ID x 5/8" OD x 1/16" Thk)
9	306-0642	1	Rod, Actuator	40	600-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
10	306-1038	2	Barrier, Arc Chute - 3 Pole, 3 Phase Units				
11	306-1041	4	Barrier, Arc Chute				
12	306-0641	1	Cover Assembly (Includes Toggle Switch)				
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")				

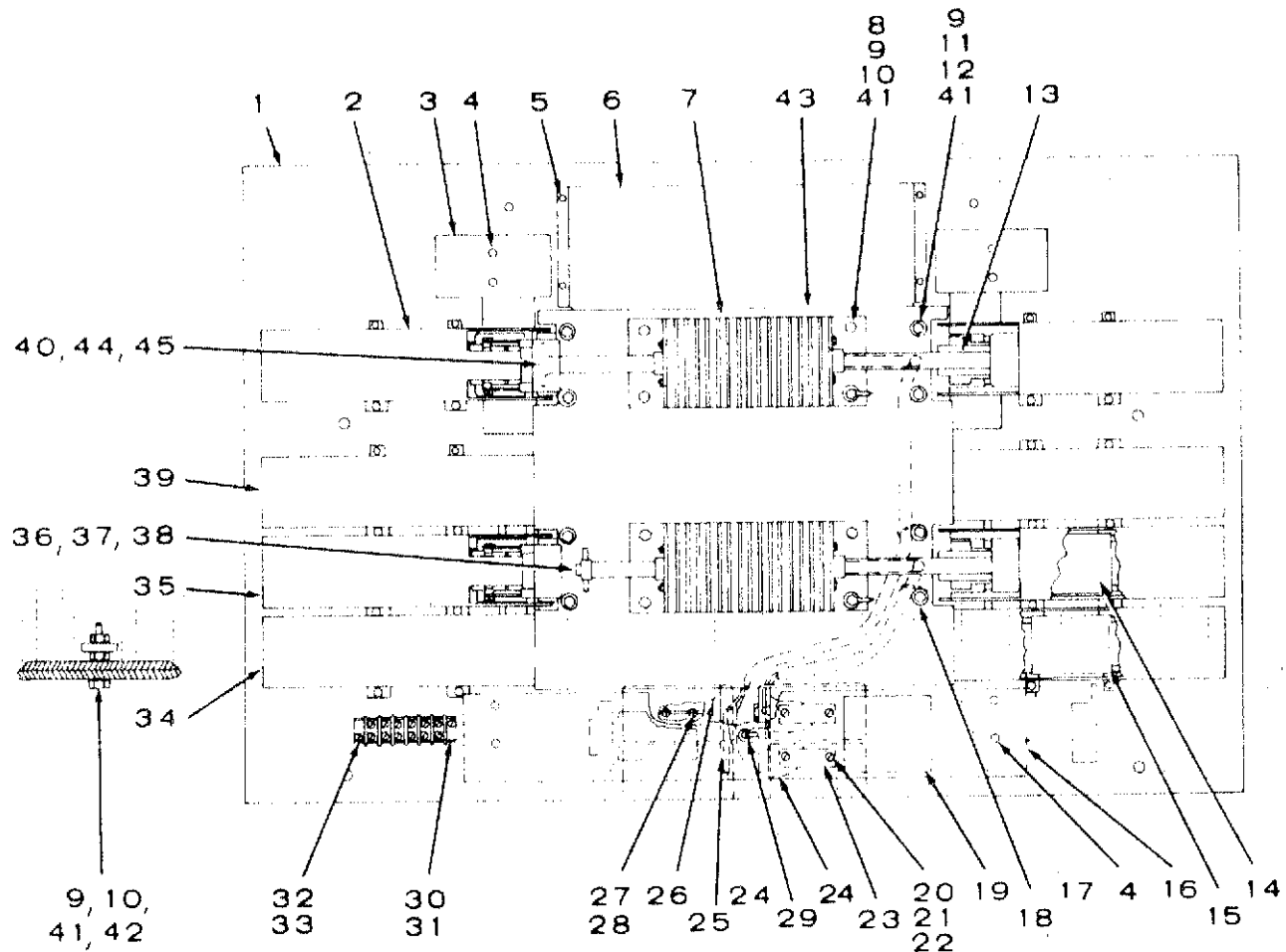
NOTE: To determine correct voltage, refer to your nameplate

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Power Generation

TRANSFER SWITCH ASSEMBLY (4 POLE)



SC-1022

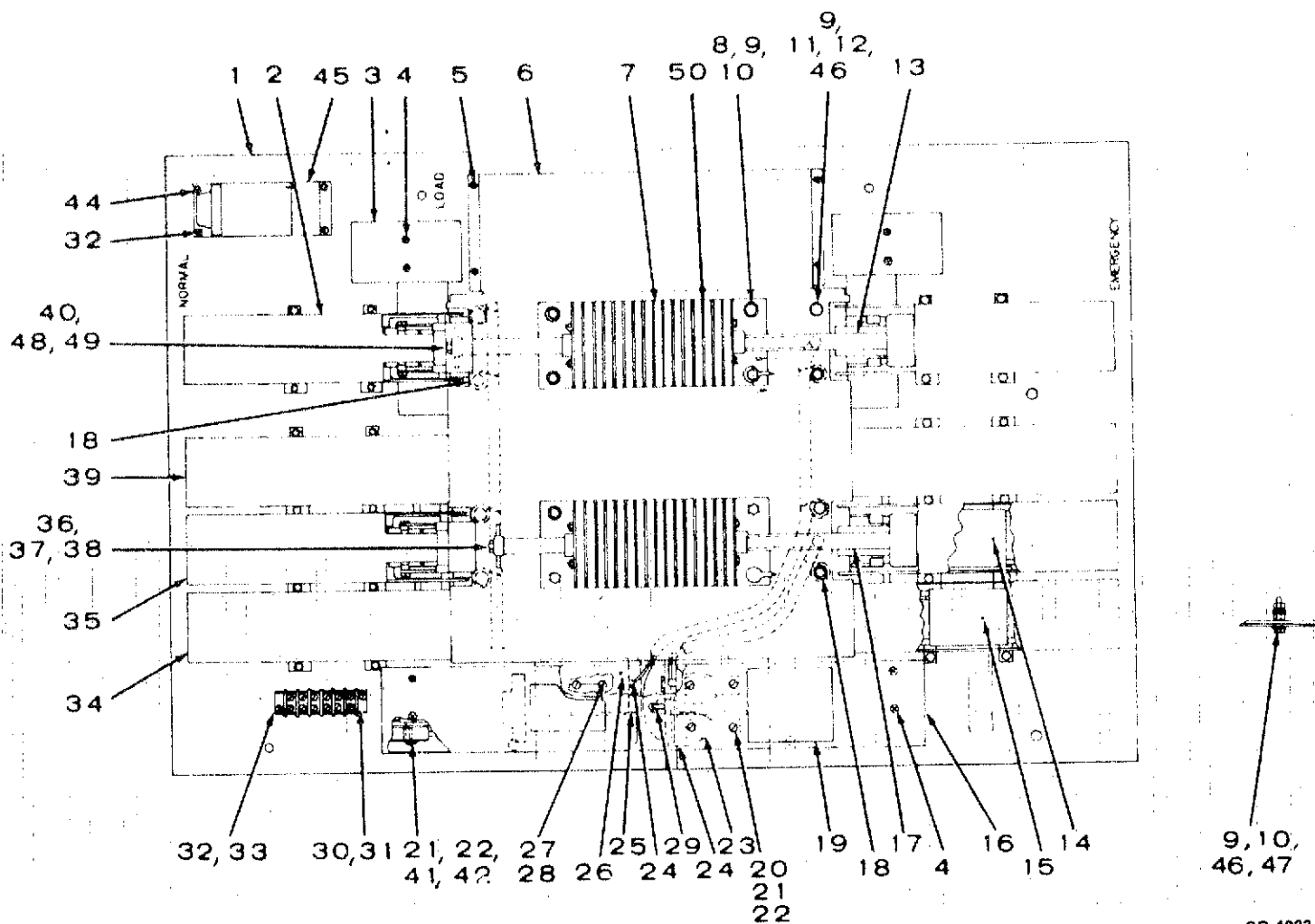
TRANSFER SWITCH ASSEMBLY (4 POLE)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)				320-0608	2	347 Volt, 50/60 Hertz
			Standard		320-0609	2	440/480 Volt, 50/60 Hertz
	306-1513	1	208/220/240 Volt, 50/60 Hertz	24	332-2211	6	Terminal
	306-1514	1	347 Volt, 50/60 Hertz	25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz Units
	306-1515	1	440/480 Volt, 50/60 Hertz				
			Rear Connected	26	CAPACITOR		
	306-1516	1	208/220/240 Volt, 50/60 Hertz		312-0218	2	208/220/240 Volt, 50/60 Hertz
	306-1517	1	347 Volt, 50/60 Hertz		312-0205	4	347 Volt, 50/60 Hertz
	306-1518	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")		
	306-1489	1	Standard		815-0165	4	208/220/240 Volt, 50/60 Hertz
	306-1490	1	Rear Connected		815-0165	8	347/440/480 Volt, 50/60 Hertz
2	306-1433	2	Cover, Contact	28	WASHER, LOCK - ET (#10)		
3	306-1430	2	Cover, Auxiliary Switch		855-0008	4	208/220/240 Volt, 50/60 Hertz
4	815-0364	8	Screw, Machine - Round Head x Recessed W/ET (#10-32 x 1/2")		855-0008	8	347/440/480 Volt, 50/60 Hertz
5	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")	29	308-0406	1	Switch, Auxiliary
6	306-1434	1	Cover, Load	30	338-1150	1	Harness, Wiring (Includes Terminal Block)
7	ACTUATOR, LINEAR			31	332-1541	1	Block, Terminal (Part of Wiring Harness)
	306-0843	2	208/220/240 Volt, 50/60 Hertz	32	854-0007	2	Washer, Lock - IT (#8)
	306-0842	2	347 Volt, 50/60 Hertz	33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
	306-0841	2	440/480 Volt, 50/60 Hertz	34	306-0331	2	Cover, Contact (LH)
8	800-0004	6	Screw, Cap - Hex Head (1/4-20 x 5/8")	35	306-0332	2	Cover, Contact
9	850-0040	20	Washer, Lock - Spring	36	306-1385	2	Rod End, Actuator
10	862-0001	10	Nut, Hex (1/4-20)	37	850-0045	2	Washer, Lock - Spring (5/16")
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")	38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/6")
12	306-0602	8	Spacer, Actuator Mounting	39	306-0333	2	Cover, Contact (RH)
13	306-1475	1	Rod, Actuator	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
14	306-1038	2	Barrier, Arc Chute	41	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
15	306-1041	4	Barrier, Arc Chute	42	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
16	306-1580	1	Cover, Auxiliary Switch	43	306-1432	1	Cover, Motor Mounting
17	306-1474	1	Rod Actuator	44	306-1647	2	Rod End, Actuator
18	332-0942	10	Tie, Cable	45	850-0050	2	Washer, Lock - Spring (3/8")
19	98-3489	1	Label, Instructions				
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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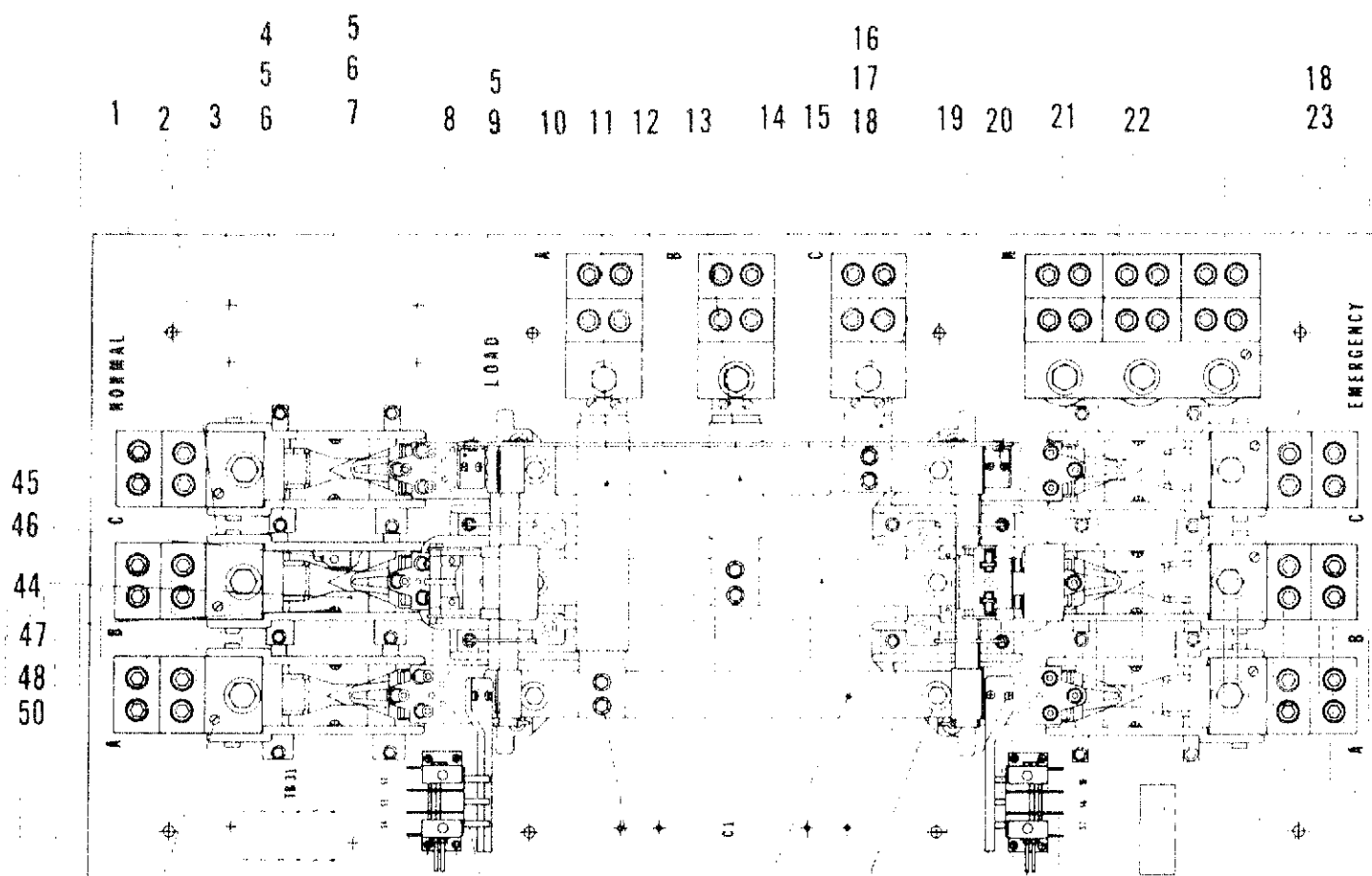
TRANSFER SWITCH ASSEMBLY (4 POLE) - PROGRAMMED TRANSITION

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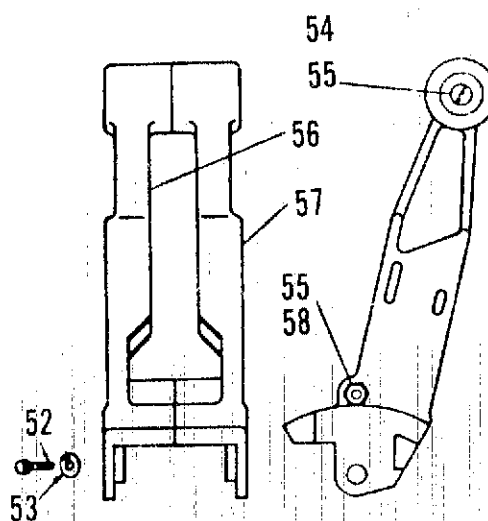
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
	SWITCH ASSEMBLY, TRANSFER (Complete)			26	CAPACITOR			
			Standard	312-0218	2	208/220/240 Volt,		
	306-1605	1	208/220 Volt, 50/60 Hertz	312-0205	4	347 Volt, 50/60 Hertz		
	306-1605	1	240 Volt, 60 Hertz	312-0204	4	440/480 Volt, 50/60 Hertz		
	306-1606	1	240 Volt, 50 Hertz					
	306-1607	1	347 Volt, 50/60 Hertz	27	SCREW, MACHINE - FLAT HEAD X RECESSED (#10-32)			
	306-1608	1	440/480 Volt, 50/60 Hertz	815-0165	4	208/220/240 Volt,		
			Rear Connected			50/60 Hertz		
	306-1609	1	208/220 Volt, 50/60 Hertz	815-0165	8	347/440/480 Volt,		
	306-1609	1	240 Volt, 60 Hertz			50/60 Hertz		
	306-1610	1	240 Volt, 50 Hertz	28	WASHER, LOCK - ET COUNTERSUNK (#10)			
	306-1611	1	347 Volt, 50/60 Hertz	855-0008	4	208/220/240 Volt,		
	306-1612	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,		
	306-1489	1	Standard			50/60 Hertz		
	306-1490	1	Rear Connected	29	308-0406	1	Switch, Toggle	
2	306-1433	2	Cover, Contact	30	338-1154	1	Harness, Wiring (Includes Terminal Block)	
3	306-1430	2	Cover, Auxiliary Switch	31	332-1541	1	Block, Terminal (Part of Wiring Diagram)	
4	815-0364	8	Screw, Machine - Round Head (#10-32 x 1/2")	32	854-0007	6	Washer, Lock - IT (#8)	
5	812-0082	4	Screw, Machine - Round (#8-32 x 3/4")	33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")	
6	306-1434	1	Cover, Load	34	306-0331	2	Cover, Contact (LH)	
7	ACTUATOR, LINEAR			35	306-0332	2	Cover, Contact	
	306-0843	2	208/220/240 Volt,	36	306-1385	2	Rod End Actuator	
			50/60 Hertz	37	850-0045	2	Washer, Lock - Spring (5/16")	
	306-0842	2	347 Volt, 50/60 Hertz	38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	
	306-0841	2	440/480 Volt, 50/60 Hertz	39	306-0333	2	Cover, Contact (RH)	
8	800-0004	8	Screw, Cap - Hex Head (1/4-20 x 5/8")	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	
9	850-0040	18	Washer, Lock - Spring (1/4")	41	306-0281	4	Barrier, Switch	
10	862-0001	10	Nut, Hex (1/4-20)	42	309-0297	2	Switch, Snap Action	
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")	43	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")	
12	306-1978	8	Spacer, Actuator Mounting	44	RELAY, TIME DELAY			
13	306-1475	1	Rod, Actuator	307-1628	1	208/220 Volt, 50/60 Hertz		
14	306-1038	2	Barrier, Arc Chute	307-1628	1	240 Volt, 60 Hertz		
15	306-1041	4	Barrier, Arc Chute	307-1629	1	240 Volt, 50 Hertz		
16	306-1580	1	Cover, Auxiliary Switch	307-1630	1	347 Volt, 50/60 Hertz		
17	306-1474	1	Rod, Actuator	307-1631	1	440/480 Volt, 50/60 Hertz		
18	332-0821	1	Tie, Cable					
19	98-3489	1	Label, Instructions	45	301-4577	1	Bracket, Relay Mounting	
20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")	46	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	
21	853-0003	8	Washer, Lock - ET (#6)	47	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	
22	860-0006	8	Nut, Hex (#6-32)	48	850-0050	2	Washer, Lock - Spring (3/8")	
23	BREAKER, CIRCUIT			49	306-1647	2	Rod End, Actuator	
	320-0611	2	208/220/240 Volt,	50	306-1432	1	Cover, Motor Mounting	
			50/60 Hertz					
	320-0608	2	347 Volt, 50/60 Hertz					
	320-0609	2	440/480 Volt, 50/60 Hertz					
24	332-2211	6	Terminal					
25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz					

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

SWITCHING ASSEMBLY (2 AND 3 POLE)



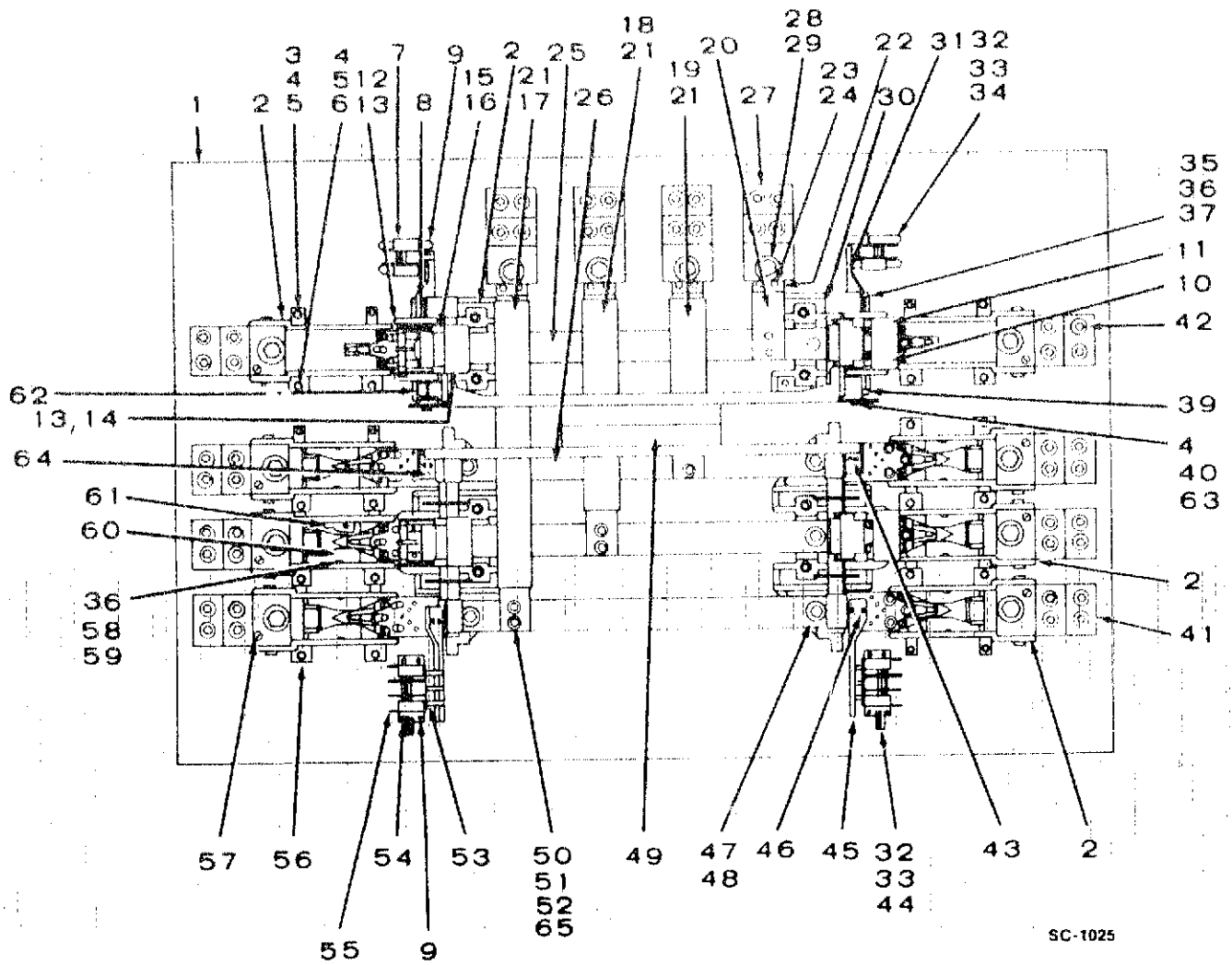
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Switching Assembly (2 and 3 Pole)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)			23	337-0319	1	Bar, Neutral – Standard Connected
	306-1140	1	Standard	25	815-0478	4	Screw, Cap – Hex Head (#6-32 x 3-1/2")
	306-1146	1	Rear Connected	26	850-0020	4	Washer, Lock – Spring (#6)
	306-0822	1	Standard	27	860-0005	4	Nut, Hex (#6-32)
	306-0823	1	Rear Connected	28	306-0253	2	Lever
1	BASE			29	815-0447	4	Screw, Machine – Round Head W/IT (#8-32 x 3/4")
			2 Pole, 1 Phase	30	SCREW, CAP – HEX HEAD (3/8-16 x 1-3/4")		
	306-1136	1	Standard		800-0053	4	2 Pole, 1 Phase
	306-1137	1	Rear Connected		800-0053	6	3 Pole, 3 Phase
			3 Pole, 3 Phase	31	WASHER, LOCK – SPRING (3/8")		
	306-0527	1	Standard		851-0022	4	2 Pole, 1 Phase
	306-0659	1	Rear Connected		851-0022	6	3 Pole, 3 Phase
2	BLOCK ASSEMBLY – 3 POLE, 3 PHASE UNITS			32	SCREW, CAP – HEX HEAD (3/8-16 x 1-1/4")		
	306-1054	2	Standard		800-0051	2	2 Pole, 1 Phase
	306-1056	2	Rear Connected		800-0051	3	3 Pole, 3 Phase
3	BLOCK ASSEMBLY			33	WASHER, LOCK – SPRING (3/8")		
	306-1055	4	Standard		851-0022	2	2 Pole, 1 Phase
	306-1057	4	Rear Connected		851-0022	3	3 Pole, 3 Phase
4	SCREW, CAP – HEX HEAD (1/4-20 x 1")			34	WASHER, LOCK – SPRING (3/8")		
	800-0007	16	2 Pole, 1 Phase		850-0050	2	2 Pole, 1 Phase
	800-0007	12	3 Pole, 3 Phase		850-0050	3	3 Pole, 3 Phase
5	526-0018	26	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	35	NUT, HEX (3/8-16)		
6	854-0014	24	Washer, Lock – IT (1/4")		862-1003	2	2 Pole, 1 Phase
7	SCREW, CAP – HEX HEAD (1/4-20 X 1-1/4")				862-1003	3	3 Pole, 3 Phase
	800-0008	8	2 Pole, 1 Phase	36	309-0297	6	Switch, Snap Action
	800-0008	12	3 Pole, 3 Phase	37	812-0082	8	Screw, Machine – Round Head (#8-32 x 3/4")
8	306-0508	2	Arm, Interlock Assembly	38	306-0636	4	Bracket, Auxillary Switch
9	800-0003	2	Screw, Cap – Hex Head (1/4-20 x 1/2")	39	306-0281	8	Barrier, Switch
10	CONTACT AND BLOCK KIT			42	SCREW, CAP – HEX HEAD (#8-32 x 3/8")		
	306-1828	2	2 Pole, 1 Phase		815-0127	5	2 Pole, 1 Phase
	306-1831	2	3 Pole, 3 Phase		815-0127	7	3 Pole, 3 Phase
11	STRAP, LOAD			44	CHUTE, ARC		
	337-0322	1	Standard		306-0320	4	2 Pole, 1 Phase
	337-0318	1	Rear Connected		306-0320	6	3 Pole, 3 Phase
12	337-0310	1	Strap, Jumper	45	SPACER, ARC CHUTE		
13	STRAP, LOAD – 3 POLE, 3 PHASE				306-0668	8	2 Pole, 1 Phase
	337-0321	1	Standard		306-0668	12	3 Pole, 3 Phase
	337-0318	1	Rear Connected	47	SCREW, MACHINE – ROUND HEAD (#10-32 x 1-1/2")		
14	337-0311	1	Strap, Jumper – 3 Pole, 3 Phase		812-0087	8	2 Pole, 1 Phase
15	LUG, SOLDERLESS – STANDARD CONNECT				812-0087	12	3 Pole, 3 Phase
	332-2017	5	2 Pole, 1 Phase	48	WASHER, LOCK (#8)		
	332-2017	6	3 Pole, 3 Phase		854-0007	8	2 Pole, 1 Phase
16	SCREW, CAP – HEX HEAD (1/2-13 x 1-1/2") – STANDARD CONNECT				854-0007	12	3 Pole, 3 Phase
	800-0092	5	2 Pole, 1 Phase	49	337-0310	1	Strap, Ground
	800-0092	6	3 Pole, 3 Phase	50	526-0048	12	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
17	WASHER, LOCK – SPRING (1/2") – STANDARD CONNECT			51	306-1398	6	Bushing – 3 Pole, 3 Phase Units
	851-0023	5	2 Pole, 1 Phase	52	815-0485	2	Screw, Shoulder
	851-0023	6	3 Pole, 3 Phase	53	850-0030	2	Washer, Lock – Spring
19	STRAP, LOAD			54	813-0109	1	Screw, Round – Head
	337-0331	1	Standard	55	870-0298	2	Nut, Self-Locking
	337-0318	1	Rear Connected	56	306-0643	1	Switch, Handle (RH)
20	306-0534	1	Bar, Interlock	57	306-0644	1	Switch, Handle (LH)
21	815- 0446	4	Screw, Machine – Round Head W/IT (#8-32 x 1/2")	58	813-0110	1	Screw, Round – Head
22	166-0122	8	Spacer, Mounting Screw				

SWITCHING ASSEMBLY (4 POLE)



SWITCHING ASSEMBLY (4 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)			29	851-0023	4	Washer, Lock - Spring (1/2") - Standard Units
	306-1489	1	Standard	30	306-1426	2	Bracket, Level
	306-1490	1	Rear Connected	31	306-1420	2	Lever
1	BASE, SWITCH			32	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")
	306-1472	1	Standard	33	850-0020	8	Washer, Lock (#6)
	306-1482	1	Rear Connected	34	860-0005	8	Nut, Hex (#6-32)
2	306-1840	2	Kit, Contact Replacement	35	812-0086	4	Screw, Machine - Round Head (#8-32 x 1-1/4")
3	800-0007	22	Screw, Cap - Hex Head (1/4-20 x 1")	36	854-0007	20	Washer, Lock - IT (#8)
4	526-0018	44	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	37	860-0008	8	Nut, Hex (#8-32)
5	854-0014	40	Washer, Lock - IT (1/4")	39	306-1423	2	Bracket, Interlock Bar
6	800-0008	16	Screw, Cap - Hex Head (1/4-20 x 1-1/4")	40	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
7	306-1431	4	Bracket, Accessory Switch	41	332-2065	6	Lug, Solderless - Standard Units
8	306-1427	2	Spacer, Lever	41	337-0317	6	Strap - Rear Connected Units
9	812-0082	16	Screw, Machine - Round Head (#8-32 x 3/4")	42	332-2065	2	Lug, Solderless - Standard Units
10	306-0643	4	Handle, Actuator - Half - Right Side	42	337-0317	2	Strap - Rear Connected Units
11	306-0644	4	Handle, Actuator - Half - Left Side	43	815-0446	4	Screw, Machine - x Recessed W/IT (#8-32 x 1/2")
12	813-0109	4	Screw, Machine - Round Head (#10-32 x 1-3/4")	44	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")
13	870-0298	8	Nut, Hex - Self Locking (#10-32)	45	306-0253	2	Lever
14	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")	46	815-0447	4	Screw, Machine - Round Head x Recessed W/IT (#8-32 x 3/4")
15	815-0485	2	Screw, Machine - Shoulder	47	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
16	850-0030	2	Washer, Lock - Spring (#10)	48	851-0022	8	Washer, Lock - Spring (3/8")
17	STRAP, LOAD			49	306-1473	1	Bar, Interlock
	306-1457	1	Standard (Includes Parts Marked *)	50	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/8")
	337-0318	1	Rear Connected	51	850-0050	4	Washer, Lock - Spring (3/8")
18	STRAP, LOAD			52	862-0003	4	Nut, Hex (3/8-16)
	306-1456	1	Standard (Includes Parts Marked *)	53	308-0297	8	Switch, Snap Action
	337-0318	1	Rear Connected	54	306-0636	4	Bracket, Auxiliary Switch
19	STRAP, LOAD			55	306-0281	12	Barrier, Switch
	306-1455	1	Standard (Includes Parts Marked *)	56	166-0122	8	Spacer, Mounting Screw
	337-0318	1	Rear Connected	57	815-0127	8	Screw, Binder Head (#8-32 x 3/8")
20	STRAP, LOAD			58	812-0087	12	Screw, Machine - Round Head (#10-32 x 1-1/2")
	306-1443	1	Standard (Includes Parts Marked Δ)	59	526-0048	12	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
	337-0318	1	Rear Connected	60	306-0320	6	Chute, Arc
21	898-1082	3	*Insulator Sleeving	61	306-0668	12	Spacer, Arc Chute
22	306-0313	3	*ΔStop, Bar	62	306-1424	2	Spacer, Interlock
23	815-0046	8	*ΔScrew, Machine x Recessed W/IT (#8-32 x 3/8")	63	850-0040	4	Washer, Lock - Spring (1/4")
24	854-0007	8	*ΔWasher, Lock - IT (#8)	64	306-0508	4	Arm, Interlock Assembly
25	337-0370	2	Strap, Jumper	65	851-0022	4	Washer, Lock - Spring (3/8")
26	337-0371	4	Strap, Jumper				
27	332-2017	4	Lug, Solderless - Standard Connect Units				
28	800-0092	4	Screw, Cap - Hex Head (1/2-13 x 1-1/2") - Standard Units				

* - Parts included in 306-1455/306-1456 and 306-1457 Load Strap Assemblies.

Δ - Parts included in 306-1443 Load Strap Assembly.

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