

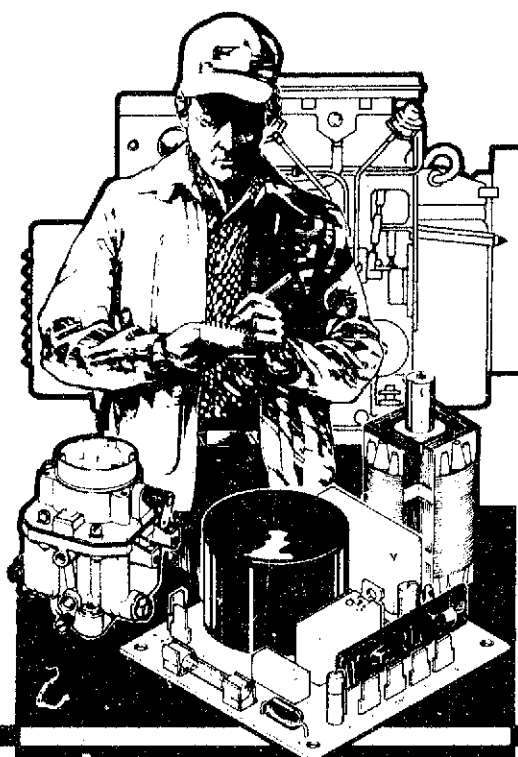
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McGRAW-EDISON

Onan

Parts Manual

OT 400 Amp Transfer Switch



Onan Service Parts

GENERAL INFORMATION

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

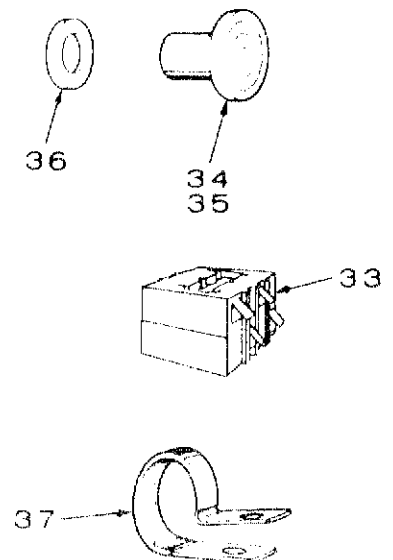
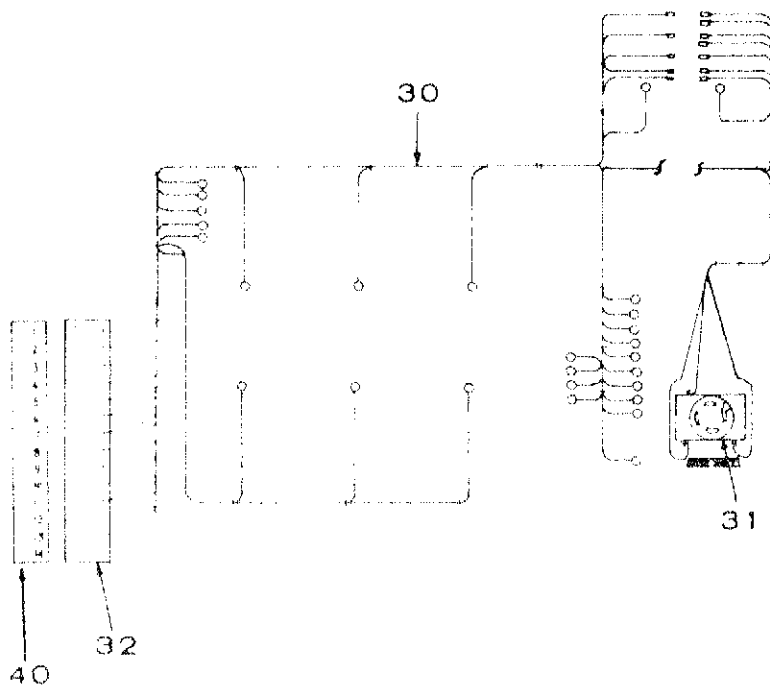
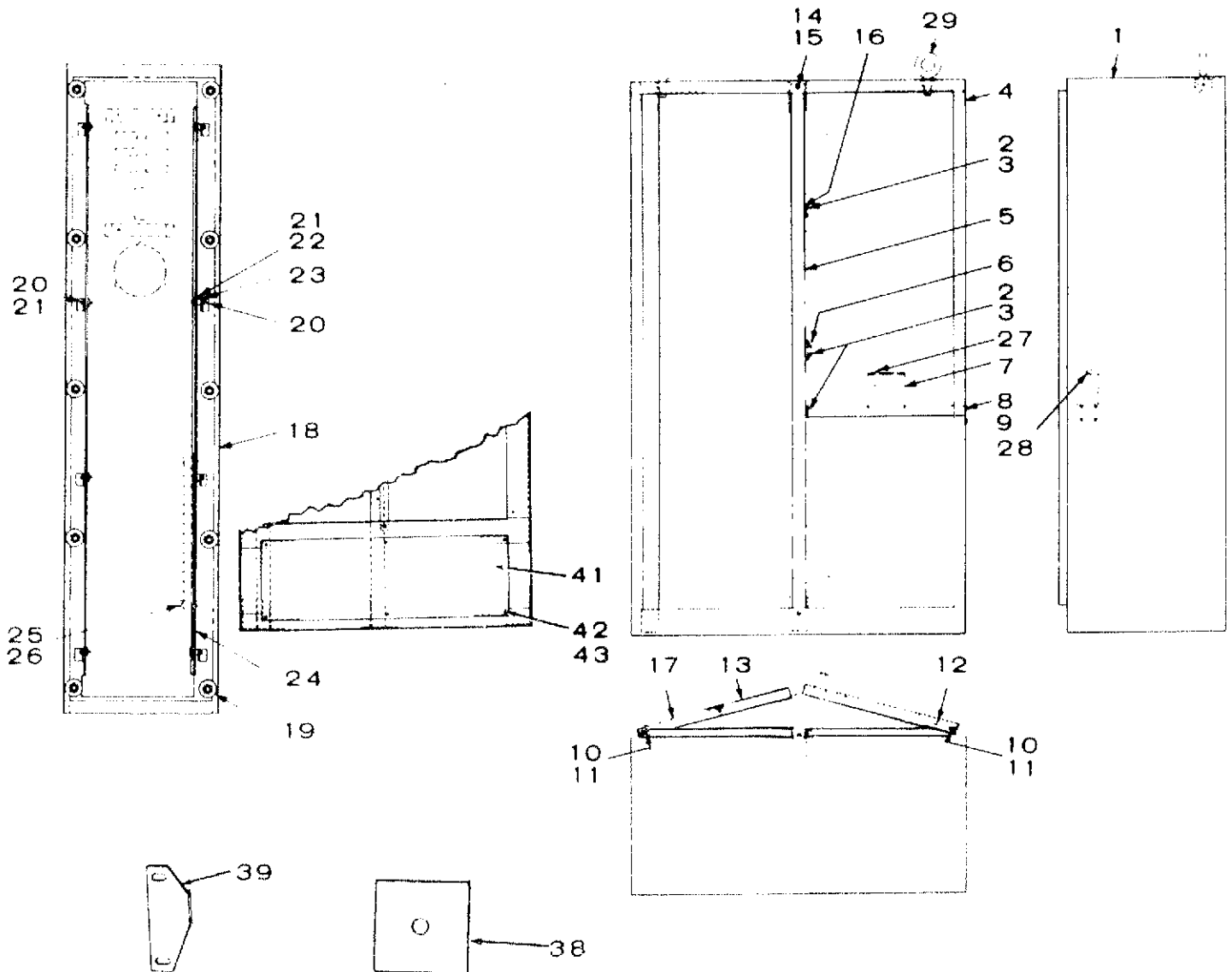
For handy reference, insert "YOUR" nameplate information in the spaces above.

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

MODEL IDENTIFICATION

CABINET ASSEMBLY (AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,K



M-1026

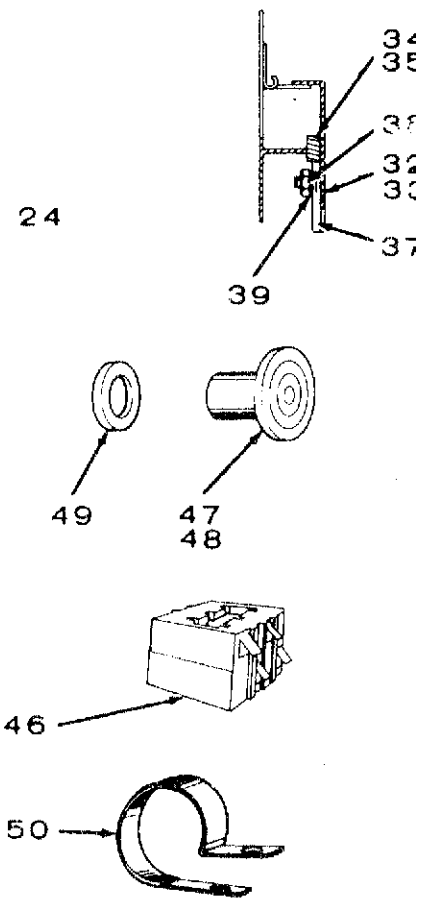
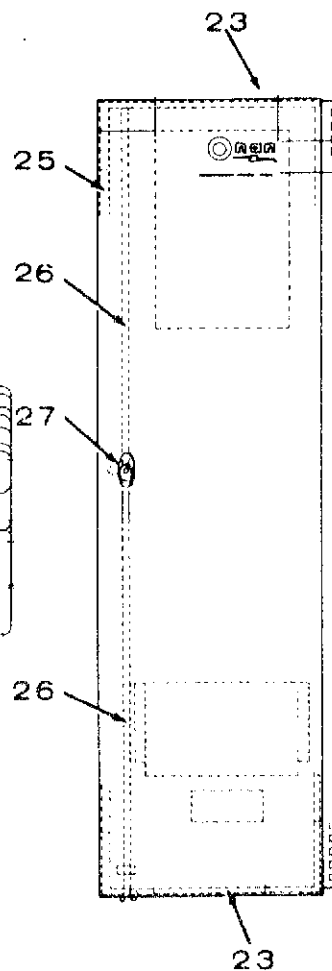
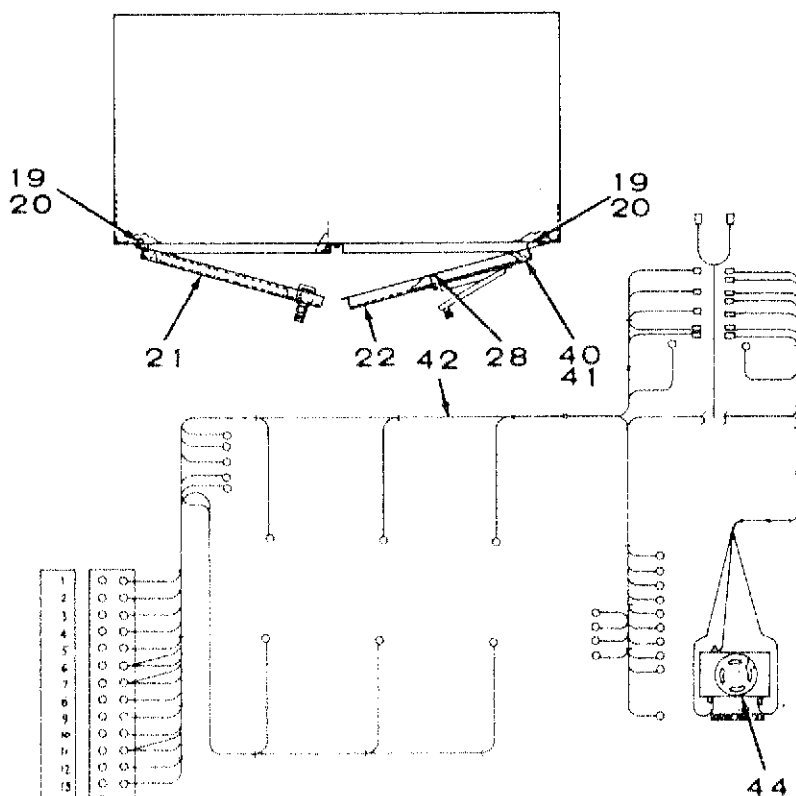
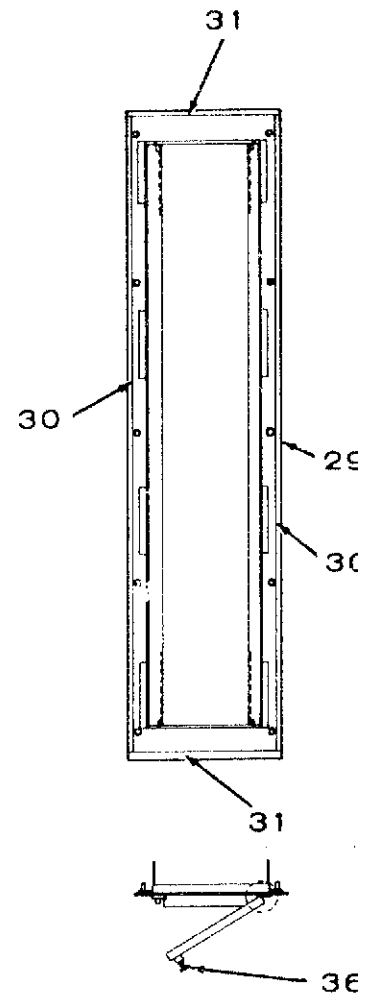
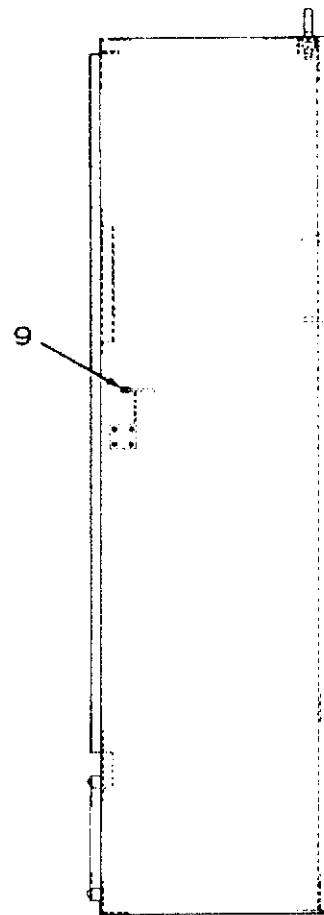
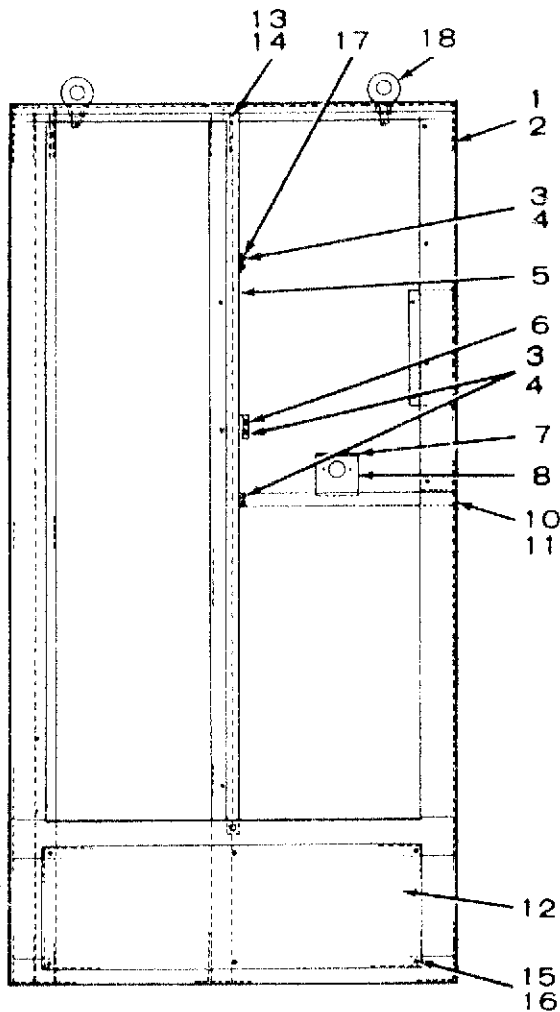
CABINET ASSEMBLY (AUTOMATIC) TRANSFER SWITCH COMBINATIONS D,K

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	‡ΔWasher, 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**



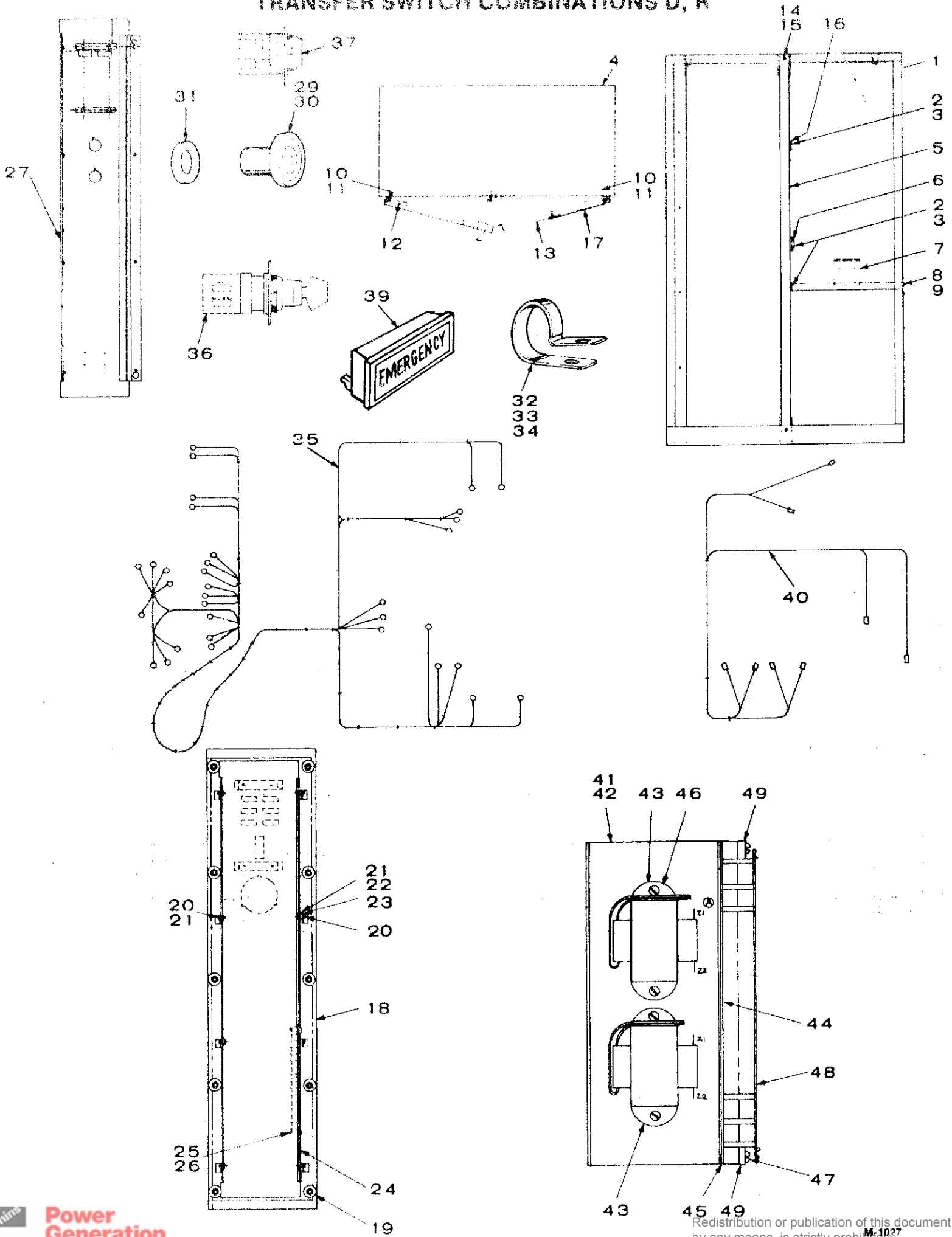
CABINET ASSEMBLY, DUST PROOF (AUTOMATIC) TRANSFER SWITCH COMBINATIONS M,N

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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, LGOP		
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

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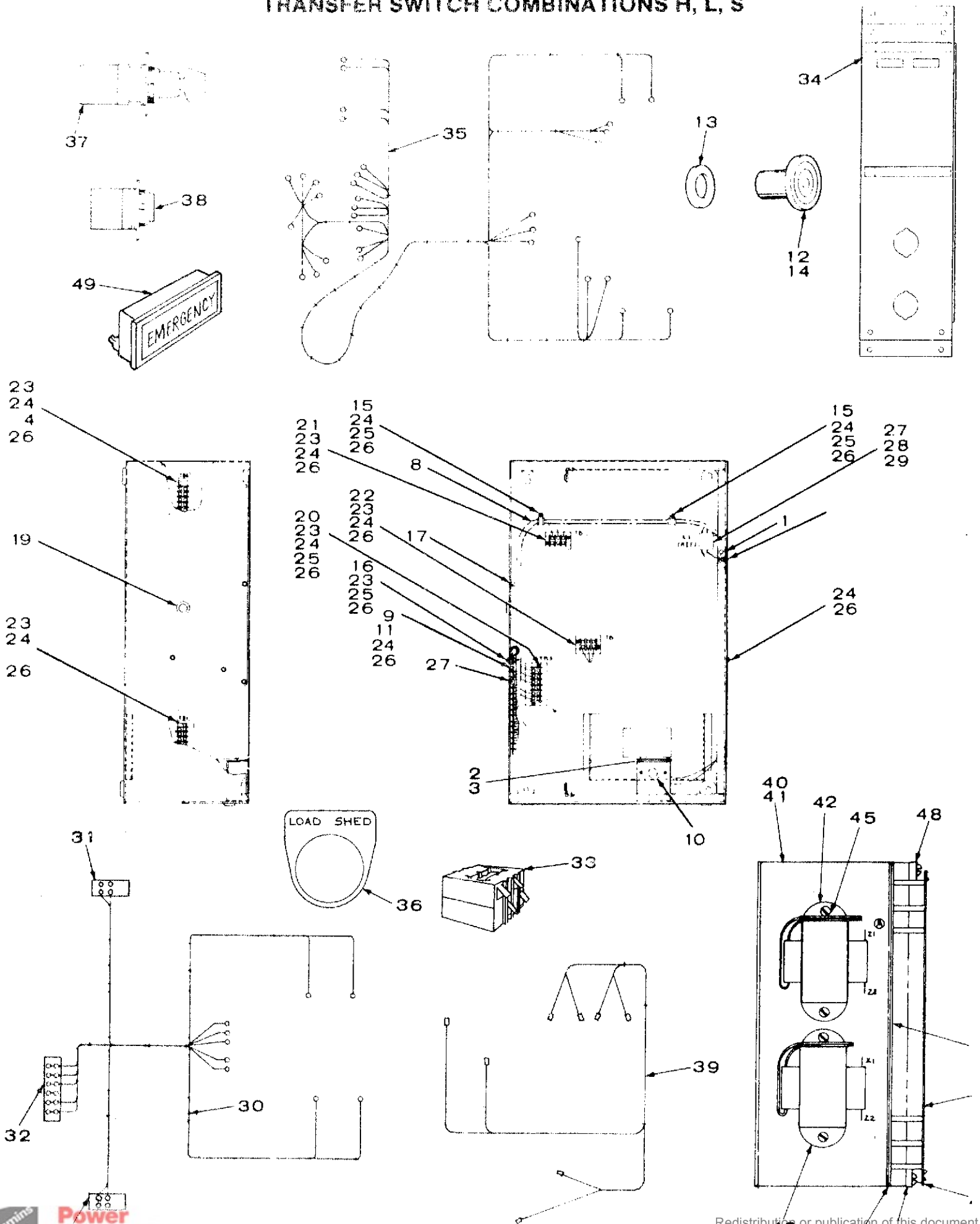
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4873	1	Cabinet Assembly, Control (Includes Parts Marked *)	26	856-0001	2	*△Washer, Lock - EIT (#6)
2	813-0096	6	*Screw, Machine - Round Head (#10-32 x 1/4")	27	301-4861	1	Panel, Meter
3	853-0008	6	Washer, 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	HARNES, WIRING		
10	860-0008	12	*Nut, Hex (#8-32)		338-1253	1	Transfer Switch Combination D
11	853-0005	12	*Washer, Lock - ET (#8)		338-1255	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 △)	40	338-1258	1	Harness, Wiring - Lights
18	301-3895	1	*△Plate, Meter Panel Mounting	41	315-0374	1	Transformer Assembly - Stepdown (Includes Parts Marked †)
19	870-0299	10	*△Nut, Hex - Swivel Washer (1/4-20)	42	301-3499	1	†Bracket, Transformer Mounting
20	812-0079	8	*△Screw, Machine - Round Head (#8-32 x 1/2")	43	315-0375	2	†Transformer, Stepdown
21	856-0002	8	*△Washer, Lock - EIT (#8)	44	332-1468	1	†Block, Terminal
22	860-0008	2	*△Nut, Hex (#8-32)	45	332-1663	1	†Strip, Marker
23	150-0302	4	*△Spacer	46	815-0387	4	†Screw, Machine - Round Head (#6-32 x 1/4")
24	301-5382	1	*△Bracket, Terminal Block	47	812-0066	2	†Screw, Machine - Round Head (#6-32 x 3/4")
25	812-0066	2	*△Screw, 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.

△ - 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)

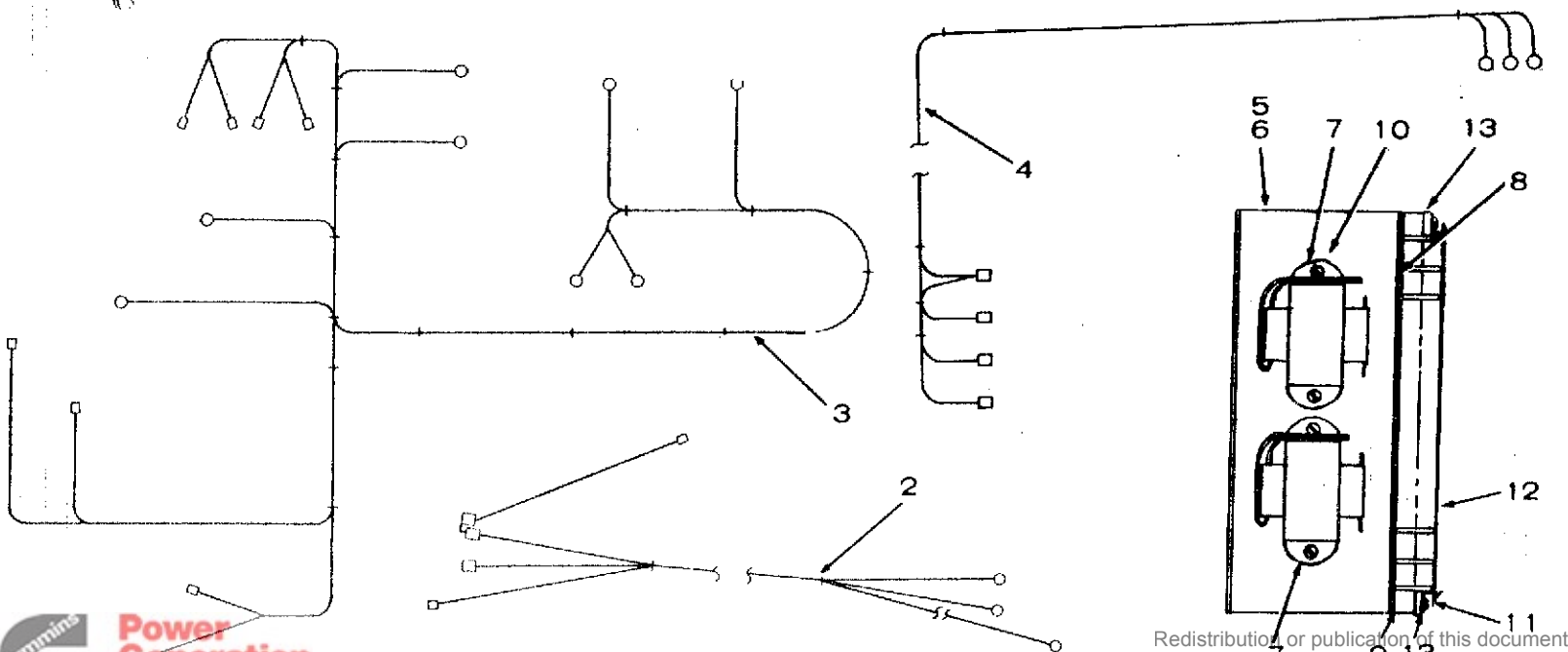
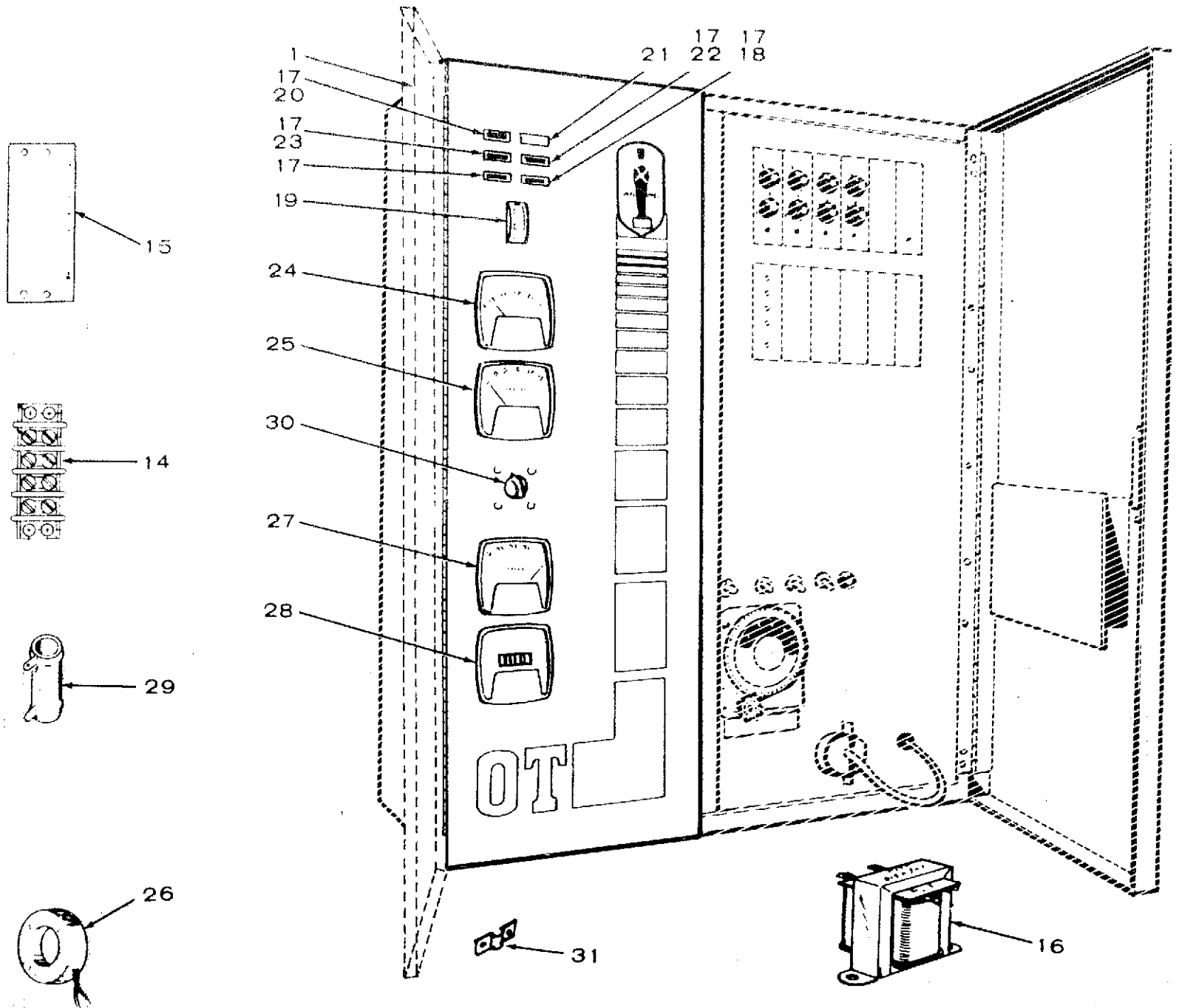
TRANSFER SWITCH COMBINATIONS H,L,S

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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 COMBINATIONS 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)

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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)				
	338-0884	1	1 Phase Units		322-0141	5	Panel Combinations 1,5,9,13
	338-0886	1	3 Phase Units - Voltage Codes 4,5D,54,55D	18	322-0107	1	Lamp, Indicator - Over Crank
	338-0887	1	3 Phase Units - Voltage Codes 4X,9X,54X,59X	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
	338-1046	1	3 Phase Units - Voltage Codes 7,57	20	322-0146	1	Lamp, Indicator - Normal - Panel Combinations 2,4,6,8,10,12,14,16,18
			Panel Combinations 13,14,15,16	21	322-0147	1	Lamp, Indicator - Emergency - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-0883	1	1 Phase Units	22	LAMP, INDICATOR - LOW BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-0883	1	3 Phase Units - Voltage Codes 4,5D,4X,9X,54,55D,54X,59		322-0114	1	Units with 12 Volt Starting Circuit (D and E)
					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		
					302-0605	2	Voltage Codes 3,53
					302-0605	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		
					302-0907	2	Voltage Codes 3,53
7	315-0375	2	*Transformer, Step Down - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0907	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				60 Hertz
					302-0811	1	Voltage Codes 3,5D,7

METER-LAMP COMBINATION PANELS (1 THROUGH 18)

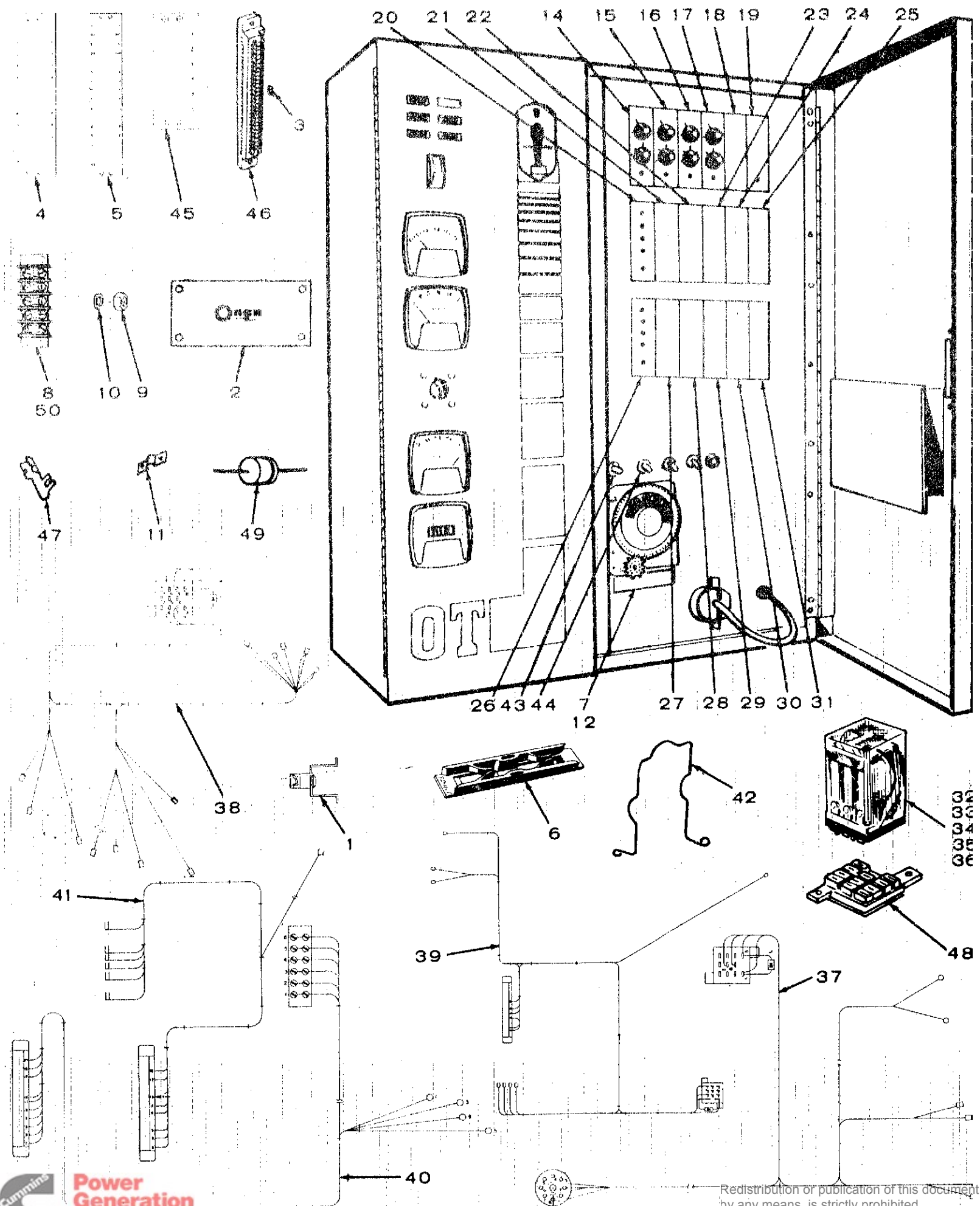
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	302-0810	1	Voltage Code 4
	302-0809	1	Voltage Codes 4X,9X
28	METER, RUNNING TIME		
			Panel Combinations 9,10,11,12
	302-0469	1	Voltage Codes 53,54,55D,57
	302-0468	1	Voltage Codes 54X,59X
	302-0466	1	Voltage 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 - 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 11,12,13 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 Components)
	300-1060	1	Units with 24 Volt Starting Circuit (C) - Spec A (0-10 Minute Start; 0-10 Minute Stop) - Optional	28	300-0937	1	Module, Blank - Accessory Groups 15,25
	300-0921	1	Begin Spec B	28	300-0937	1	Module, Blank - Accessory Group 14 - Voltage Codes 3,53
21	MODULE, RY-PASS (Transfer) (See Separate Groups for Components)			28	300-0780	1	Module, Over Voltage Sensor (Line) Accessory Group 14 - Voltage Codes 4,5D,7,4X, 9X,54,55D,57,54X, and Accessory Group 24 (See Separate Group for Components)
	300-0927	1	Accessory Groups 10,11,12, 13,15,20,21,22,23,25 - Spec A	29	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
	300-1675	1	Accessory Groups 10,11,15, 20,21,25 - Begin Spec B	30	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
21	300-1188	1	Module, Time Delay - Transfer-Retransfer - Accessory Groups 12,13,14,22,23,24 - Begin Spec B (See Separate Groups for Components)	31	300-0937	1	Module, Blank - Accessory Groups 14,15,24,25
21	300-0924	1	Module, Time Delay - Transfer - Accessory Groups 14,24 - Spec A (See Separate Group for Components)	32	307-1058	1	Relay, Interposing - Line (12 Volt) - Accessory Groups 10,11,12,13,14,15
22	300-0937	1	Module, Blank - Units with 2 Wire Starting Circuit (C & D)	33	307-1058	1	Relay, Interposing - Generator (12 Volt) - Accessory Groups 10,11,12,13,14,15
22	300-0926	1	Module, 2 to 3 Wire Converter-Units with 3 Wire Starting Circuit (E) (See Separate Group for Components)	34	307-1058	1	Relay, Timer (12 Volt) - Accessory Groups 12,13,14, 15,22,23,24,25 - Spec A
23	300-0937	1	Module, Blank - Accessory Groups 10,11,12,13,15,20, 21,22,23,25	34	307-1058	1	Relay, Retrtransfer (12 Volt) Accessory Groups 13,15,23, 25 - Begin Spec B
23	MODULE, BATTERY VOLTAGE SENSOR - ACCESSORY GROUPS 14,24 (See Separate Groups for Components)			35	307-1058	1	Relay, Over Voltage - Line (12 Volt) - Accessory Groups 14,15,24,25
	300-0796	1	Units with 12 Volt Starting Circuit (D & E)	36	307-1058	1	Relay, Start - Begin Spec B
	300-0797	1	Units with 24 Volt Starting Circuit (C)	37	338-0677	1	Harness, Wiring - Timer Motor - Accessory Groups 12,13,14,15,22,23,24,25 Spec A (Includes Parts Marked *)
24A	307-1199	1	Relay and Bracket, Retrtransfer (120 Volt) - Accessory Groups 12,13,14,22,23,24 Spec A (See Separate Group for Components)	38	HARNESS, WIRING - RETRTRANSFER - ACCESSORY GROUPS 13,15,23,25		
				338-0664	1	Spec A	
				338-1136	1	Begin Spec B (Includes Parts Marked Δ)	
24	300-0937	1	Module, Blank - Accessory Groups 10,11,15,20,21,25 and Groups 12,13,14,22,23, 24 Begin Spec B	39	HARNESS, WIRING - OVER VOLTAGE - ACCESSORY GROUPS 14,15,24,25 (Includes Parts Marked †)		
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	338-0668	1	Voltage Codes 3,53 - Spec A	
				338-0657	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - Spec A	
				338-1137	1	Voltage Codes 3,53 - Begin Spec B	
26	300-0937	1	Module, Blank - Accessory Groups 15,25	338-1134	1	Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X - Begin Spec B	
26	300-0780	1	Module, Over Voltage Sensor	40	HARNESS, BATTERY VOLTAGE ACCESSORY GROUP 14,15,24,25 - (Includes Parts Marked †)		

MODULAR CONTROL ACCESSORY PANEL

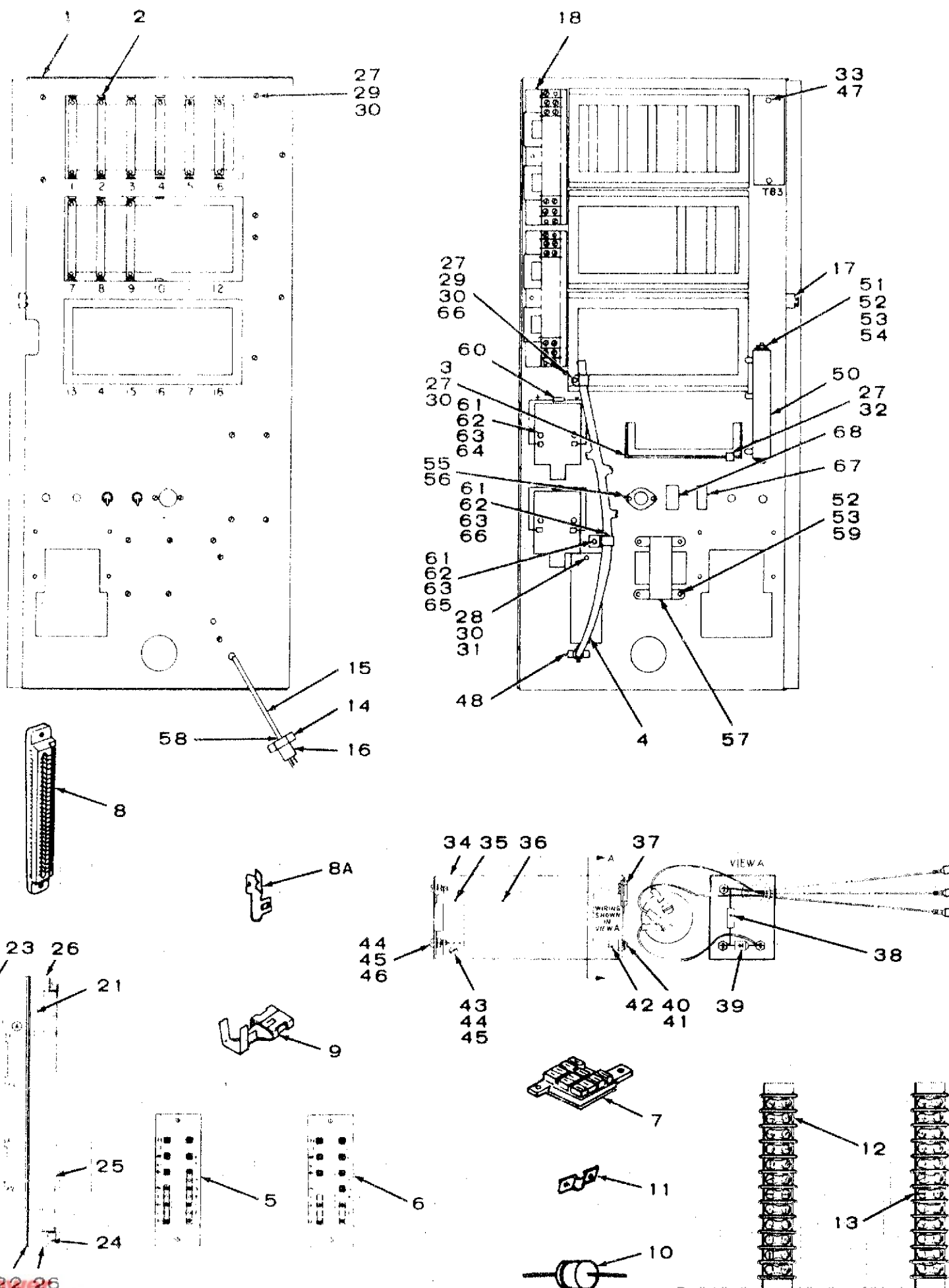
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-0658	1	Spec A				Voltage Codes 4.5D,4X,7.9X, 54,55D,54X,57,59X
	338-1135	1	Begin Spec B				
41	HARNESSES, TO PREHEAT - ACCESSORY GROUPS 15,25 (Includes Parts Marked U)				332-2108	10	£Accessory Groups 14,15,24,25
	338-0770	1	Spec A		332-2108	6	†Accessory Groups 14,15,24,25 - Voltage Codes 3,53
	338-1138	1	Begin Spec B		332-2108	13	□Accessory Groups 15,25
42	SPRING, RELAY HOLD-DOWN			48	323-0765	1	*Δ†Socket Relay - Accessory Groups 14,15,24,25
	307-1157	1	Accessory Groups 12,13,14,23,24				
	307-1157	2	Accessory Groups 15,25	49	357-0004	1	*Δ†Diode, Rectifier - Accessory Groups 14,15,24,25
43	308-0321	1	Switch, Manual & Automatic - Accessory Groups 13,15,23,25	50	332-0699	1	£Block, Terminal - Accessory Groups 14,15,24,25
44	308-0175	1	Switch, Retransfer - Accessory Groups 13,15,23,25				
45	332-1516	1	Strip, Marker (1 thru 6) - Accessory Groups 14,15,24,25				
46	HOUSING, TERMINAL BOARD - PC						
	332-2107	3	†Accessory Groups 14,15,24,25 - Voltage Codes 4.5D,4X,7.9X, 54,55D,54X,57,59X				
	332-2107	1	†£Accessory Groups 14,15,24,25				
	332-2107	1	□Accessory Groups 15,25				
47	TERMINAL PC BOARD						
	332-2108	18	†Accessory Groups 14,15,24,25 -				

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

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



SWINGING PANEL ASSEMBLY - SPEC A

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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY, SWINGING - COMPLETE			9	332-1280	12	*Δ†£□#□■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		315-0374	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
3	307-1157	2	Spring, Relay Holddown (All Except Accessory Groups 20,21,22,23,24,25)	19	**BRACKET, TRANSFORMER MOUNTING		
4	HARNESS, WIRING - MAIN - NOT ILLUSTRATED				301-3499	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Group 10		301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
	338-1022	1	Voltage Codes 3,53 (Includes Parts Marked *)	20	TRANSFORMER, STEP DOWN		
	338-1021	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)		315-0375	2	Units with Voltage Codes 3,53 (1-Phase)
	338-1085	1	Voltage Codes 7,57 (Includes Parts Marked †)		315-0375	4	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
			Accessory Groups 11,12,13,14,15	21	**TERMINAL, BLOCK		
	338-0776	1	Voltage Codes 3,53 (Includes Parts Marked £)		332-1468	1	Units with Voltage Codes 3,53 (1-Phase)
	338-0777	1	Voltage Codes 4,5D,4X,9X,54, 55D,54X,59X (Includes Parts Marked □)		332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
	338-1034	1	Voltage Codes 7,57 (Includes Parts Marked #)	22	**STRIP, MARKER		
	338-1045	1	Accessory Group 20 (Includes Parts Marked Ø)		332-1663	1	Units with Voltage Codes 3,53 (1-Phase)
	338-1043	1	Accessory Groups 21,22,23, 24,25 (Includes Parts Marked ■)		332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
5	332-1486	1	*Δ†£□#□■Block, Terminal	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
6	332-1487	1	*Δ†£□#□■Block, Terminal		815-0387	4	Units with Voltage Codes 3,53 (1-Phase)
7	323-0765	2	*Δ†£□#□■Socket, Relay		815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X (3-Phase)
8	HOUSING, PRINTED CIRCUIT BOARD			24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
			Accessory Group 10		812-0066	2	Units with Voltage Codes 3,53 (1-Phase)
	332-1271	6	*Voltage Codes 3,53		812-0066	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	9	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X	25	**COVER, PROTECTIVE		
	332-1271	8	†Voltage Codes 7,57		332-1651	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Groups 11,12,13,14,15		332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	7	£Voltage Codes 3,53	26	**WASHER, INSULATOR		
	332-1271	9	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57		508-0074	2	Units with Voltage Codes 3,53 (1-Phase)
	332-1271	8	ØAccessory Group 20		508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57, 59X (3-Phase)
	332-1271	9	■Accessory Groups 21,22,23, 24,25	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
8A	TERMINAL, PRINTED CIRCUIT BOARD						Accessory Group 10
			Accessory Group 10		812-0061	8	Units with Voltage Codes 3,53
	332-1269	37	*Voltage Codes 3,53				
	332-1269	47	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1269	47	†Voltage Codes 7,57				
			Accessory Groups 11,12,13, 14,15				
	332-1269	41	£Voltage Codes 3,53				
	332-1269	51	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1269	48	ØAccessory Group 20				
	332-1269	51	■Accessory Groups 21,22,23, 24,25				

SWINGING PANEL ASSEMBLY - SPEC A

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

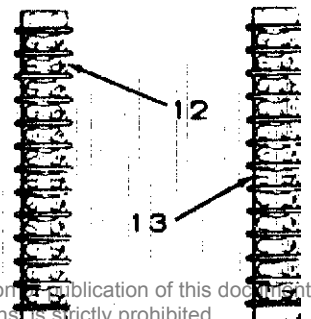
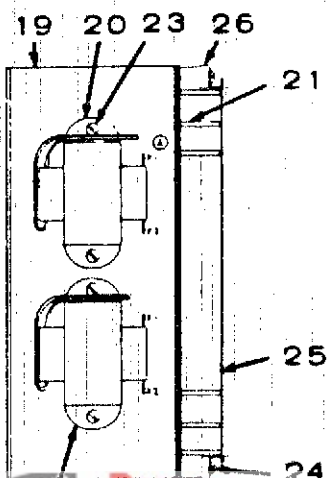
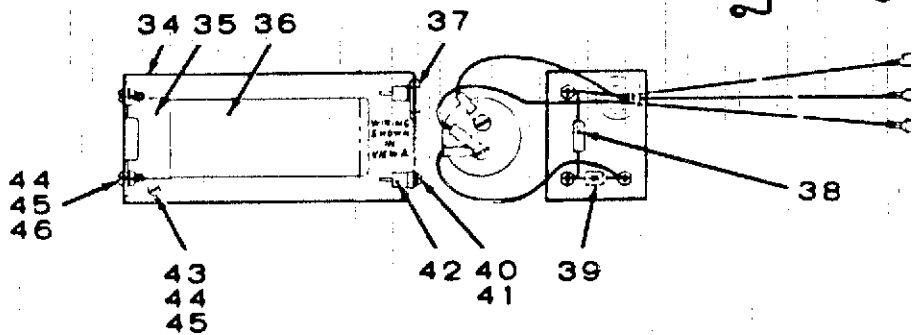
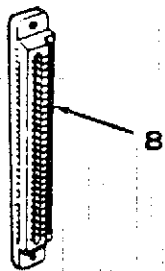
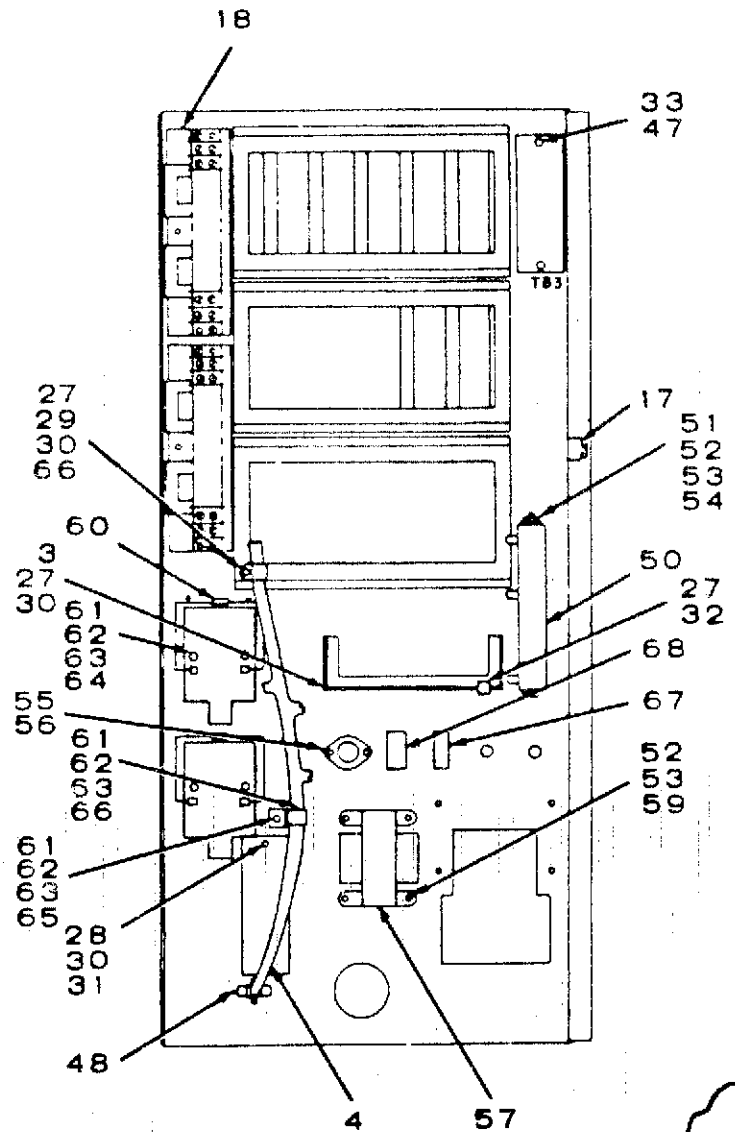
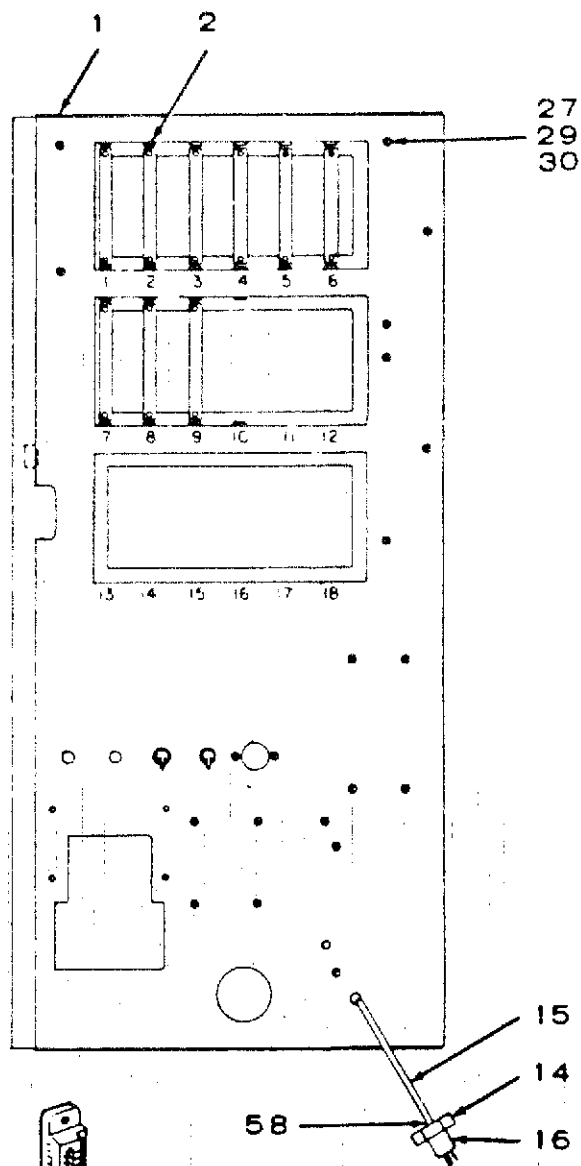
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	13	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	48	332-1969	1	Clamp, Cable
			Accessory Groups 11,12,13,14,15	50	353-0046	1	Resistor (6-Ohm,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

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



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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY, SWINGING - COMPLETE				332-1269	46	■Accessory Groups 21,22,23,24,25
			Accessory Group 10	9	332-1280	12	*Δ†£□#□■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				
	300-1689	1	Voltage Codes 7,57	11	332-1043	3	*Δ†£□#□■Jumper, Terminal
			Accessory Groups 11,12,13,14,15	12	332-1468	1	*Δ†£□#□■Block, Terminal (12 Place)
	300-1630	1	Voltage Codes 3,53	13	332-0795	1	*Δ†£□#□■Block, Terminal (16 Place)
	300-1629	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	14	301-3765	2	Plate, Panel Interlock
	300-1649	1	Voltage Codes 7,57	15	503-0679	1	Hose, Insulating
	300-1634	1	Accessory Group 20	16	323-0901	1	Plug, Line Disconnect
	300-1633	1	Accessory Groups 21,22,23,24,25	17	405-1872	1	Clip, Door
1	301-4673	1	Panel Swinging	18	TRANSFORMER ASSEMBLY, STEP DOWN (Includes Parts Marked **)		
2	323-1084	24	Guide, PC Board		315-0374	1	Units with Voltage Codes 3,53 (1-Phase)
3	307-1157	3	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)
	338-1157	1	Voltage Codes 3,53 (Includes Parts Marked *)		301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
	338-1156	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)	20	**TRANSFORMER, STEPDOWN		
	338-1195	1	Voltage Codes 7,57 (Includes Parts Marked †)		315-0375	2	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Groups 11,12,13,14,15		315-0375	4	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
	338-1155	1	Voltage Codes 3,53 (Includes Parts Marked £)	21	**BLOCK, TERMINAL		
	338-1139	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked □)		332-1468	1	Units with Voltage Codes 3,53 (1-Phase)
	338-1185	1	Voltage Codes 7,57 (Includes Parts Marked #)		332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
	338-1159	1	Accessory Group 20 (Includes Parts Marked Ø)	22	**STRIP, MARKER		
	338-1158	1	Accessory Groups 21,22,23,24,25 (Includes Parts Marked ■)		332-1663	1	Units with Voltage Codes 3,53 (1-Phase)
5	332-1486	1	*Δ†£□#□■Block, Terminal		332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
6	332-1487	1	*Δ†£□#□■Block, Terminal	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
7	323-0765	3	*Δ†£□#Socket, Relay - Accessory Groups 10,11,12,13,14,15		815-0387	4	Units with Voltage Codes 3,53 (1-Phase)
7	323-0765	1	Ø■Socket, Relay - Accessory Groups 20,21,22,23,24,25		815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)
8	HOUSING, PRINTED CIRCUIT BOARD			24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
			Accessory Group 10		812-0066	2	Units with Voltage Codes 3,53 (1-Phase)
	332-2107	6	*Voltage Codes 3,53		812-0066	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
	332-2107	8	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X	25	**COVER, PROTECTIVE		
	332-2107	8	†Voltage Codes 7,57		332-1651	1	Units with Voltage Codes 3,53 (1-Phase)
			Accessory Groups 11,12,13,14,15		332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
	332-2107	7	£Voltage Codes 3,53	26	**WASHER, INSULATOR		
	332-2107	9	#□Voltage Codes 4,5D,4X,7,9X,54,55D,54X,59X,57		508-0074	2	Units with Voltage Codes 3,53 (1-Phase)
	332-2107	8	ØAccessory Group 20		508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)
	332-2107	9	■Accessory Groups 21,22,23,24,25	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
8A	TERMINAL, PRINTED CIRCUIT BOARD						
			Accessory Group 10				
	332-1269	36	*Voltage Codes 3,53				
	332-1269	46	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1269	46	†Voltage Codes 7,57				
			Accessory Groups 11,12,13,14,15				
	332-1269	40	£Voltage Codes 3,53				
	332-1269	50	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1269	46	ØAccessory Group 20				

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

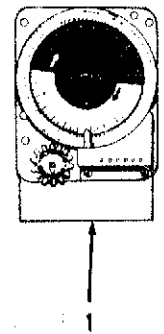
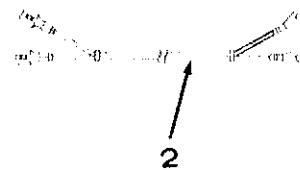
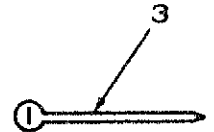
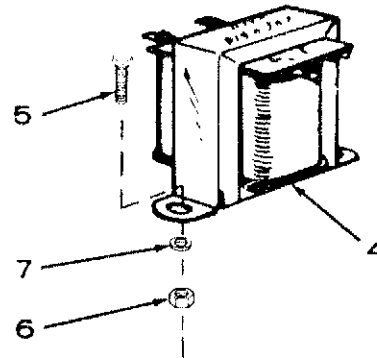
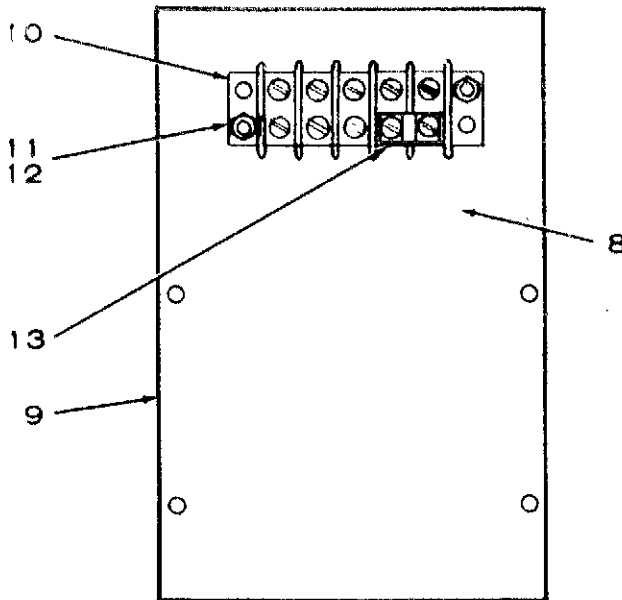
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	22	Accessory Group 10 Units with Voltage Codes 3,53	48	332-1969	1	Clamp, Cable
	812-0061	29	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X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

- * - Parts Included in 338-1157 Harness Assembly.
- △ - Parts Included in 338-1156 Harness Assembly.
- † - Parts Included in 338-1195 Harness Assembly.
- £ - Parts Included in 338-1155 Harness Assembly.
- - Parts Included in 338-1139 Harness Assembly.
- # - Parts Included in 338-1185 Harness Assembly.
- ∅ - Parts Included in 338-1159 Harness Assembly.
- - Parts Included in 338-1158 Harness Assembly.
- ** - Parts Included in 315-0374 Transformer Assembly.
- *** - Parts Included in 300-1627 Start Suppression Control.

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

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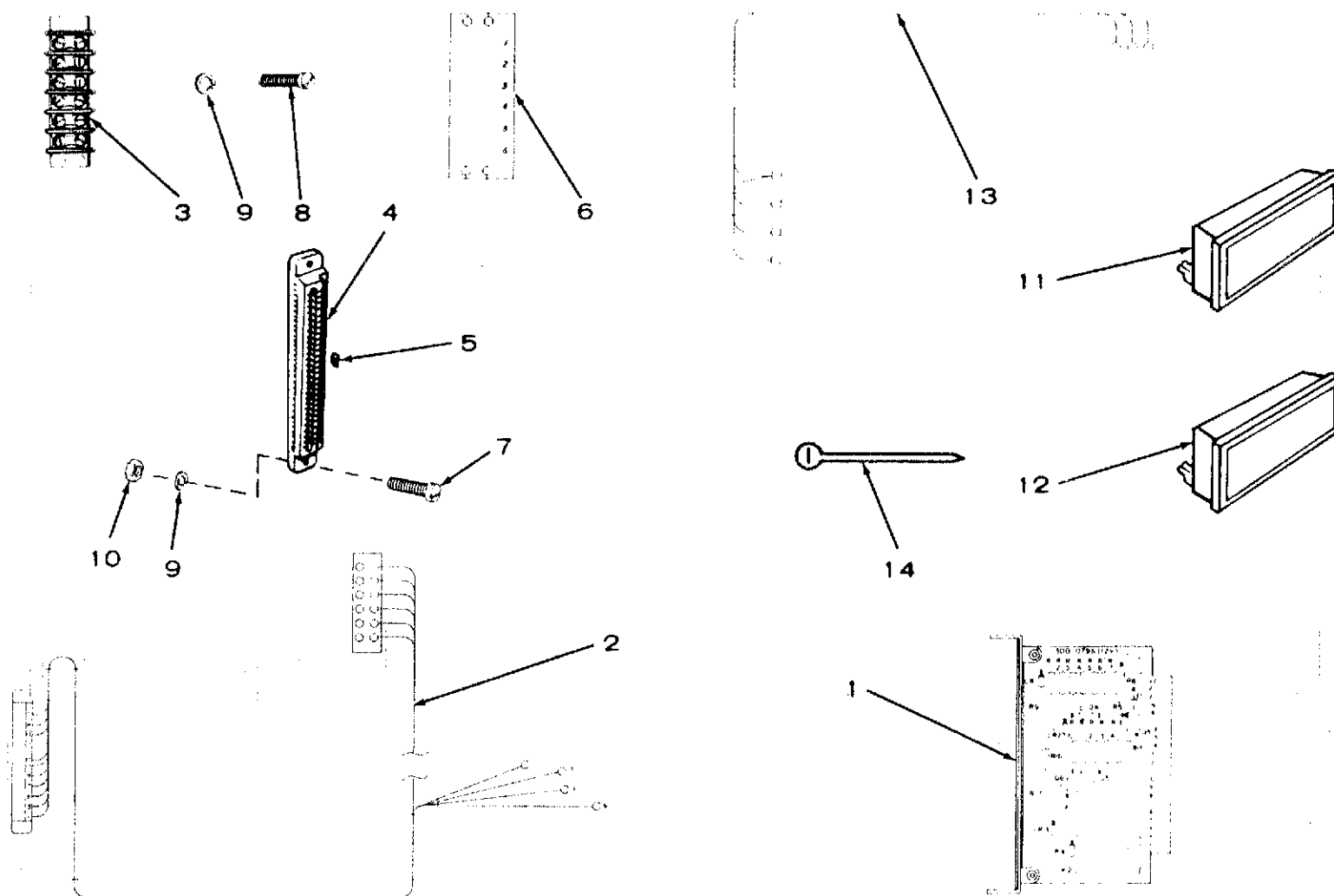
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, EXERCISER CLOCK (COMPLETE) - 60 Hertz		
	307-1652	1	Accessory Groups 10,20, Voltage Codes 3,4,5D,7
	307-1648	1	Accessory Groups 10,20, Voltage Codes 4X,9X (Includes Leads)
	307-1650	1	Accessory Groups 11,15,21, 25, Voltage Codes 3,4,4X, 5D,7,9X
1	SWITCH,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

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

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

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

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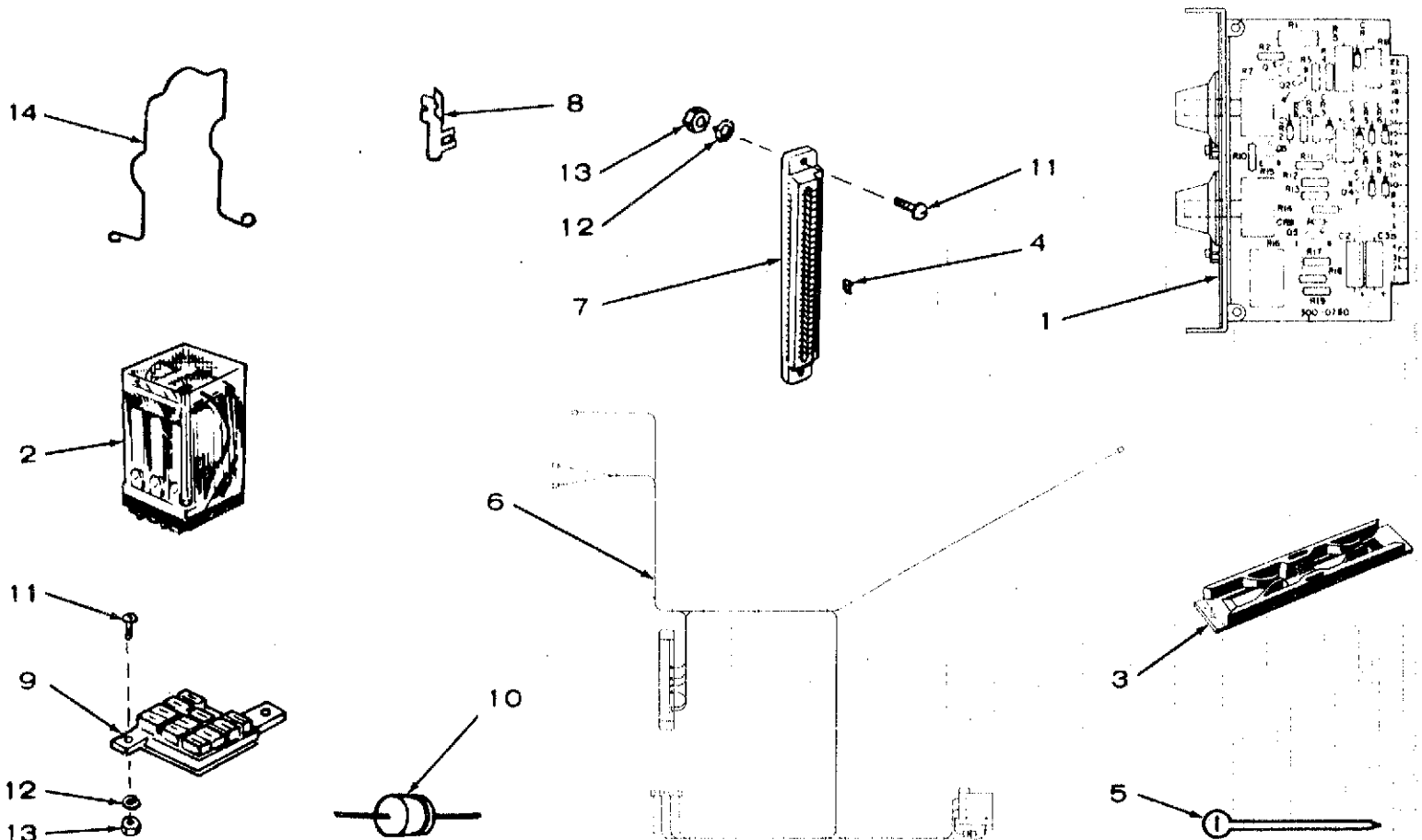


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, BATTERY VOLTAGE (Complete)		
	300-1019	1	12 Volt
	300-1022	1	24 Volt
1	SENSOR, BATTERY VOLTAGE (See Separate Group for Components)		
	300-0796	1	12 Volt
	300-0797	1	24 Volt
2	338-0658	1	Harness, Wiring (Includes Terminal Block and Printed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

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2114	1	Plug, Keying
6	332-1516	1	Strip, Marker
7	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
8	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
9	853-0003	4	Washer, Lock - ET (#6)
10	860-0006	2	Nut, Hex - Machine (#6-32)
11	LAMP, LOW BATTERY VOLTAGE INDICATOR		
	322-0114	1	12 Volt
	322-0126	1	24 Volt
12	LAMP, HIGH BATTERY VOLTAGE INDICATOR		
	322-0115	1	12 Volt
	322-0127	1	24 Volt
13	338-0659	1	Harness, Lamp
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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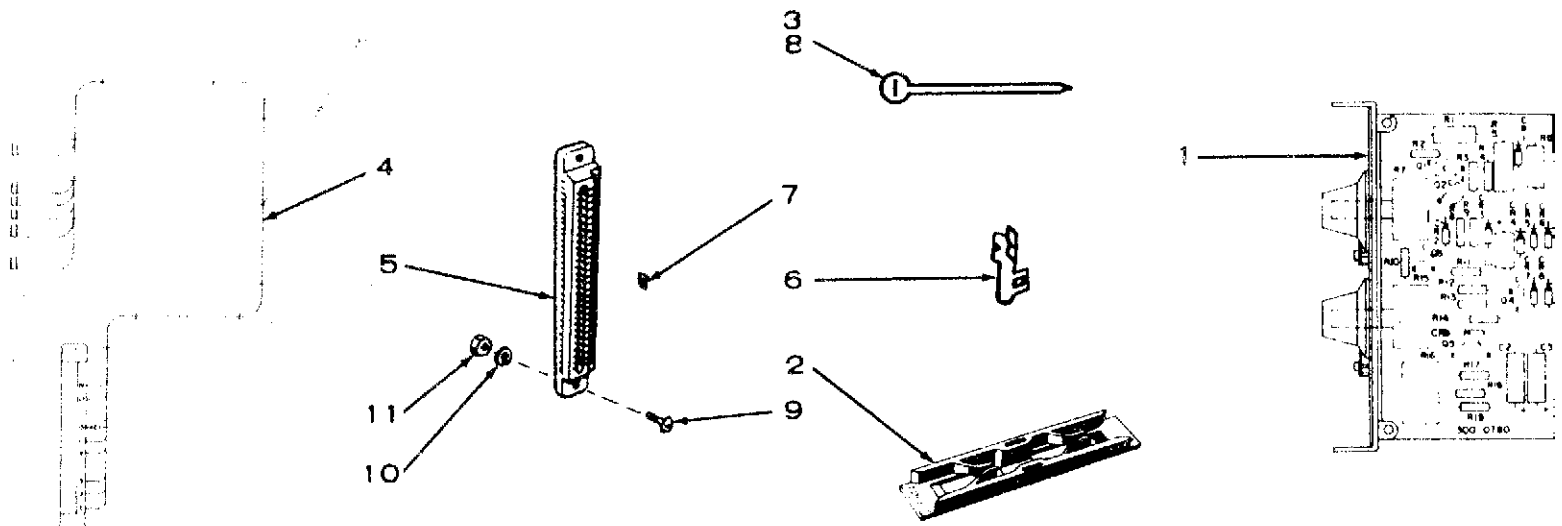
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR KIT, OVER VOLTAGE (Complete)		
	300-1020	1	1 Phase Units
	300-1021	1	3 Phase Units
1	SENSOR, VOLTAGE		
	300-0780	1	1 Phase Units
	300-0730	3	3 Phase Units
2	307-1058	1	Relay
3	GUIDE, PRINTED CIRCUIT BOARD		
			Spec A
	323-0814	2	1 Phase Units
	323-0814	6	3 Phase Units
			Begin Spec B
	323-1084	2	1 Phase Units
	323-1084	6	3 Phase Units
4	PLUG, KEYING		
	332-2114	1	1 Phase Units
	332-2114	3	3 Phase Units
5	TIE, CABLE		
	332-0942	25	1 Phase Units
	332-0942	36	3 Phase Units
6	HARNESS, WIRING (Includes Parts Marked *)		
	338-0668	1	1 Phase Units

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

* - Parts Included in Wiring Harness Assembly.

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

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

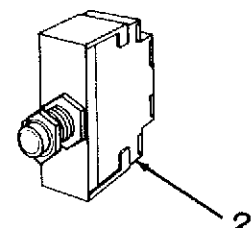
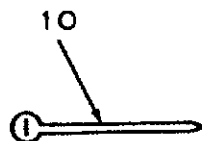
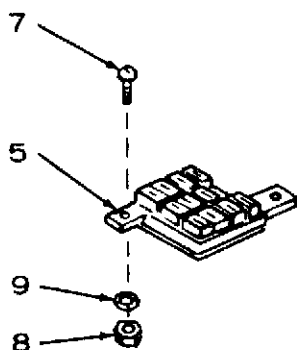
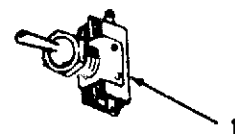
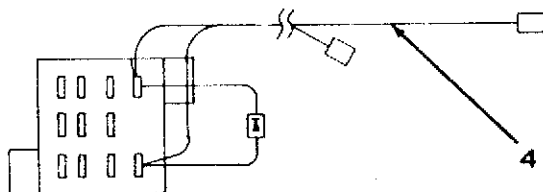
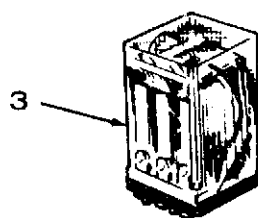
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2107	1	†*Housing, Printed Circuit Board Terminal
6	TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	7	†Spec A
	332-1269	6	†Spec A
	332-2108	13	*Begin Spec B
7	332-2114	1	†*Plug, Keying
8	332-0942	12	†*Tie, Cable
9	812-0061	2	Screw, Machine - Round Head (#6-32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

† - Parts Included in 338-1268 Wiring Harness.

* - Parts Included in 338-0770 Wiring Harness.

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

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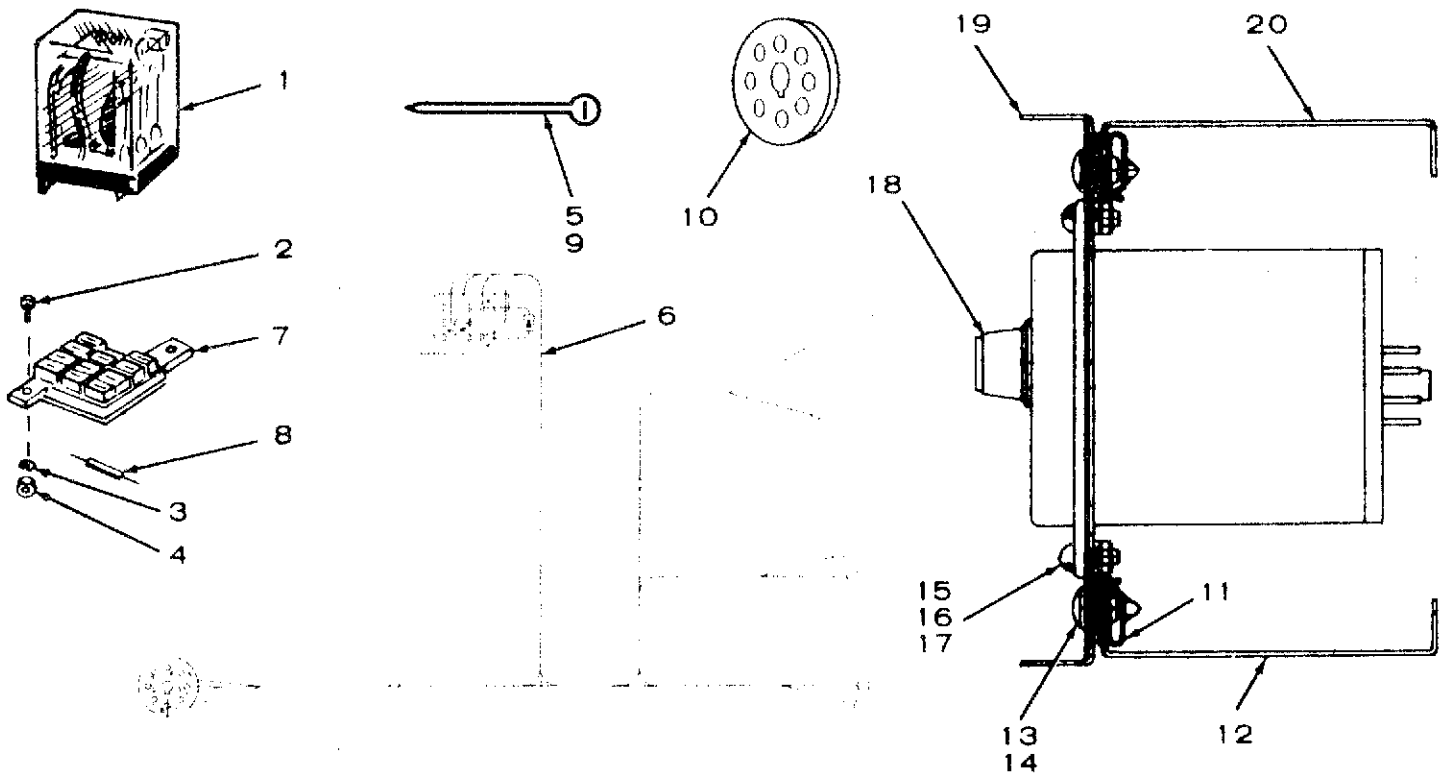


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	308-0343	1	Switch Package - Retransfer (Complete)
1	308-0321	1	Switch, Manual and Automatic
2	308-0175	1	Switch, Retransfer
3	307-1058	1	Relay
4	338-1061	1	Harness, Wiring (Includes Diode and Socket)
5	323-0765	1	Socket, Relay (Part of

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

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

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

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

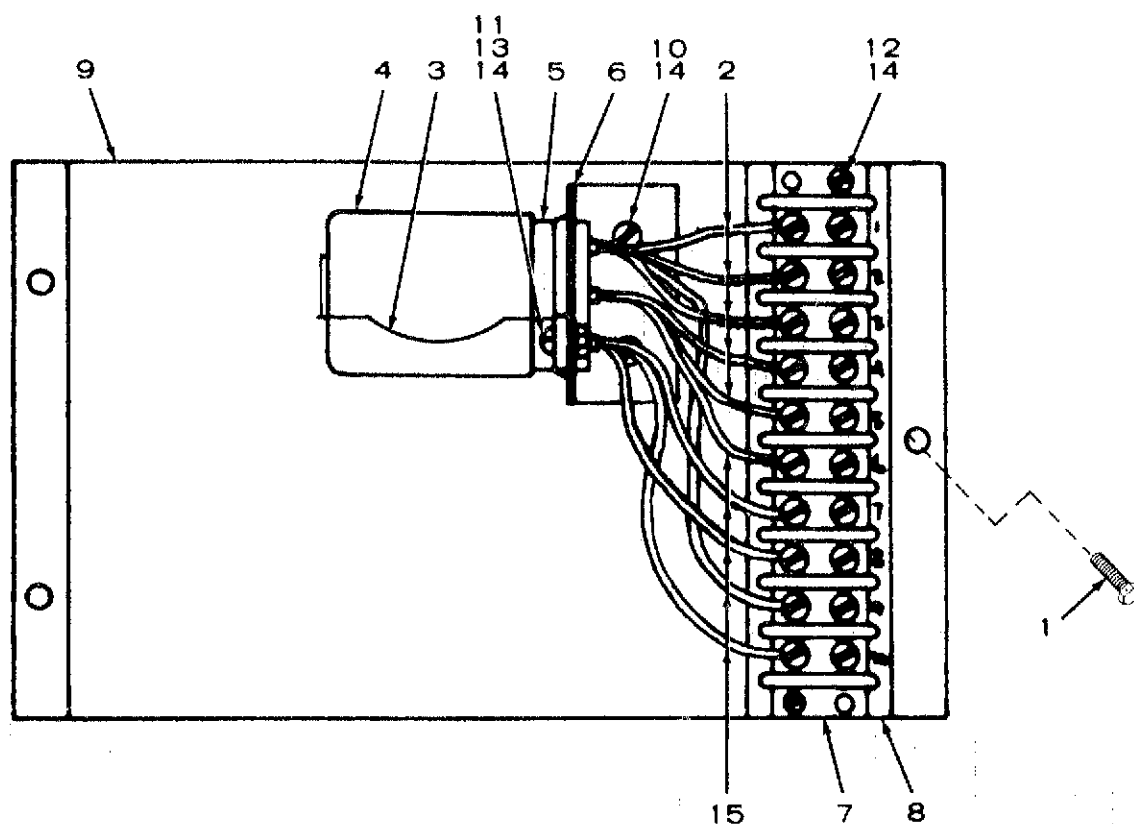
* - Parts Included in 307-1285 Time Delay Package.

• - Parts Included in 338-0677 Wiring Harness.

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

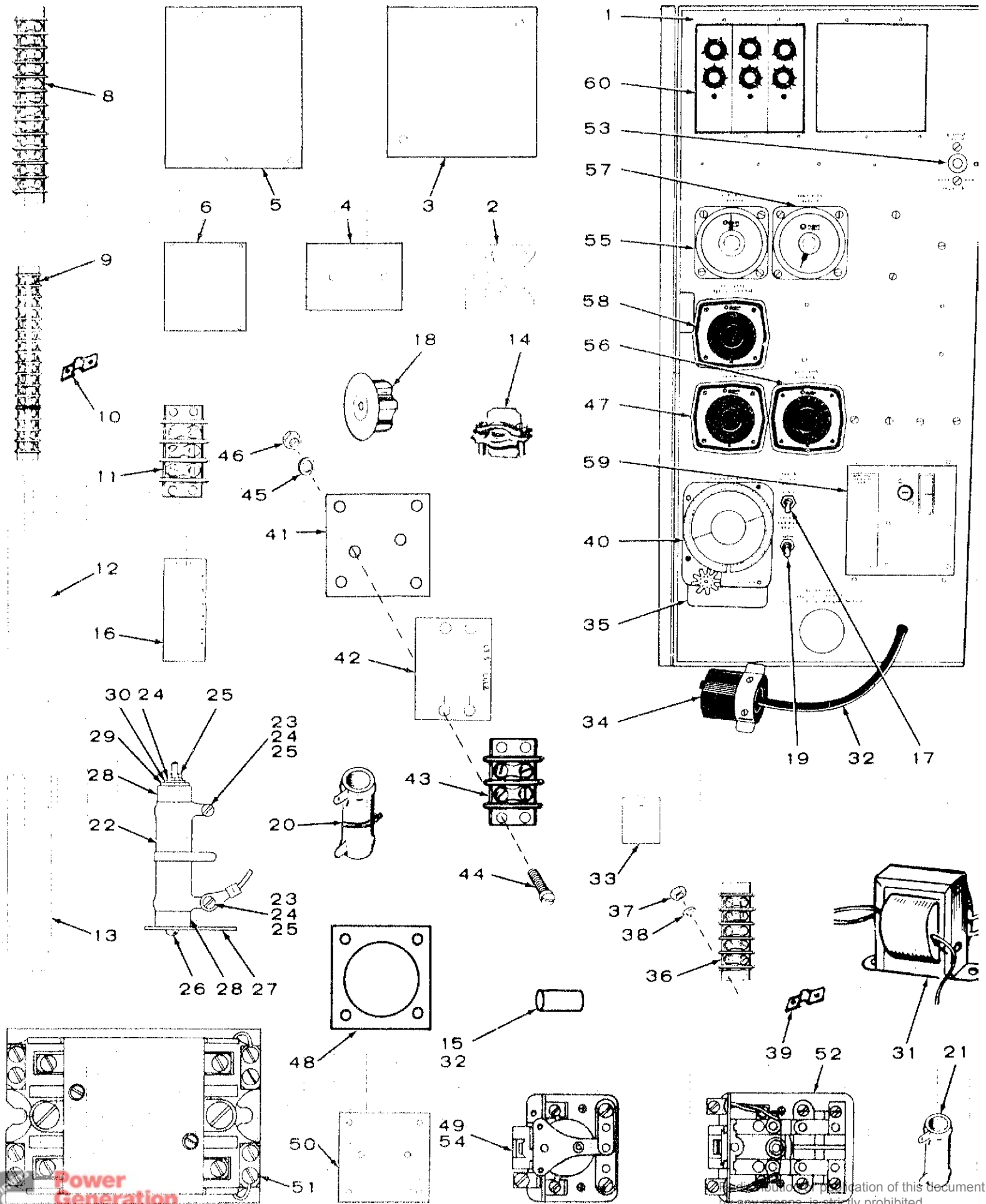
AUXILIARY STARTING CONTACTS RELAY ASSEMBLY - OPTIONAL WIRE IN

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	RELAY PACKAGE, AUXILIARY STARTING CONTACTS			6	301-3620	1	Bracket, Relay Mounting
	307-1320	1	For Units with 12 Volt Starting Circuit (D & E)	7	332-0751	1	Terminal, Block
	307-1321	1	For Units with 24 Volt Starting Circuit (C)	8	332-0853	1	Strip, Marker
1	815-0387	3	Screw, Machine - Pan Head Cross Recessed (#6-32 x 1/4")	9	301-3632	1	Bracket, Relay and Transfer
2	336-2179	6	Lead	10	815-0387	2	Screw, Machine - Pan Head Cross Recessed (#6-32 x 3/8")
3	307-1157	1	Spring, Relay Holddown	11	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")
4	RELAY			12	815-0388	2	Screw, Machine - Pan Head Cross Recessed (#6-32 x 1/2")
	307-1058	1	12 Volt (For 12 Volt Starting Circuit D & E)	13	860-0006	2	Nut, Hex Head Machine (#6-32)
	307-1056	1	24 Volt (For 24 Volt Starting Circuit C)	14	853-0003	6	Washer, Lock - ET (#6)
5	323-0765	1	Socket, Relay	15	336-2066	4	Lead

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



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Cummins 812-0059
24 HOURS
Power Generation
WASHER LOG

OT ☐ - ☐ / ☐



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

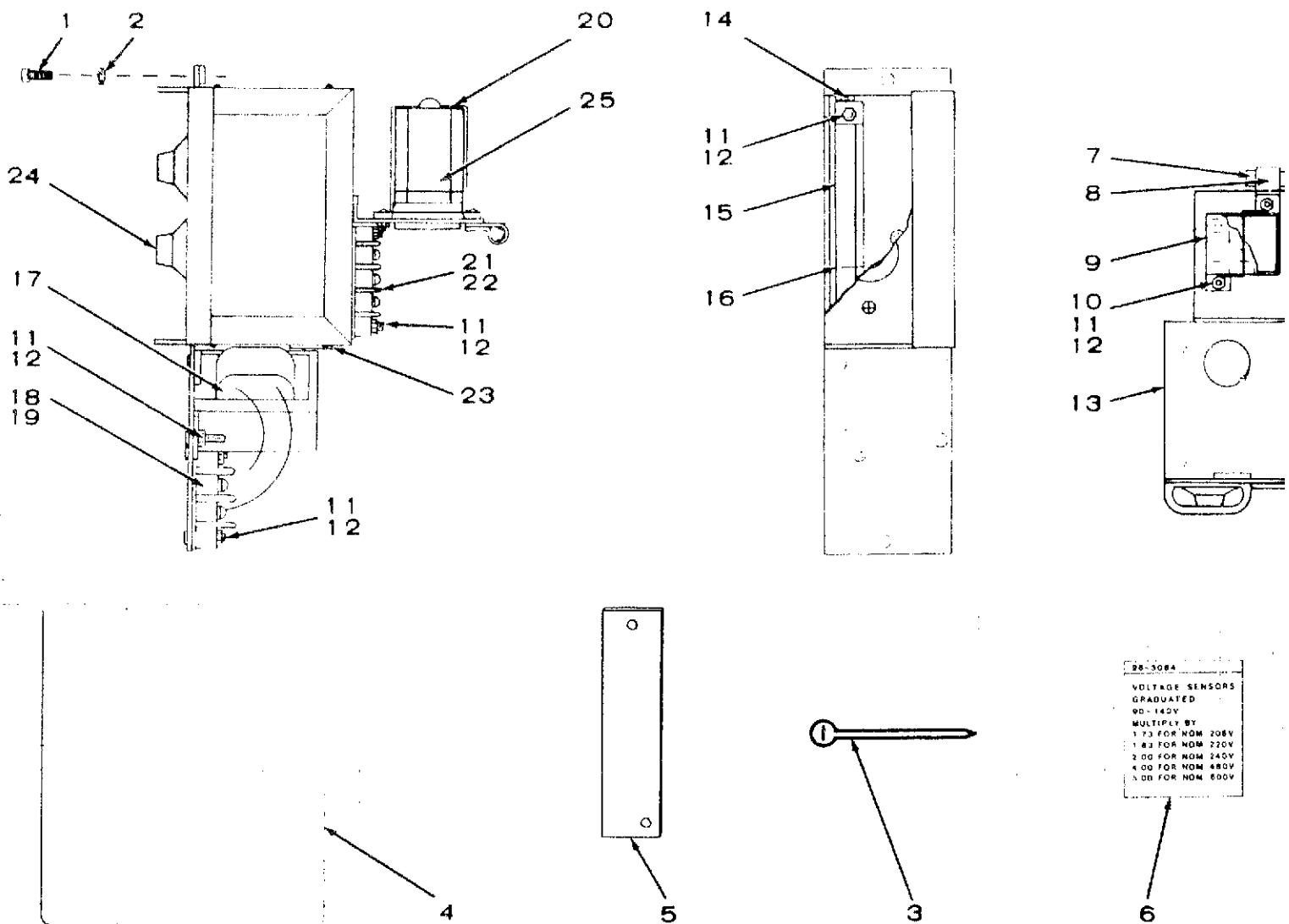
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
300-1367		1	Over or Under Voltage (208-240 Volt, 1 Phase)	300-1376		1	Over Voltage (480 Volt, 3 Phase)
300-1368		1	Over and Under Voltage (208-240 Volt, 1 Phase)	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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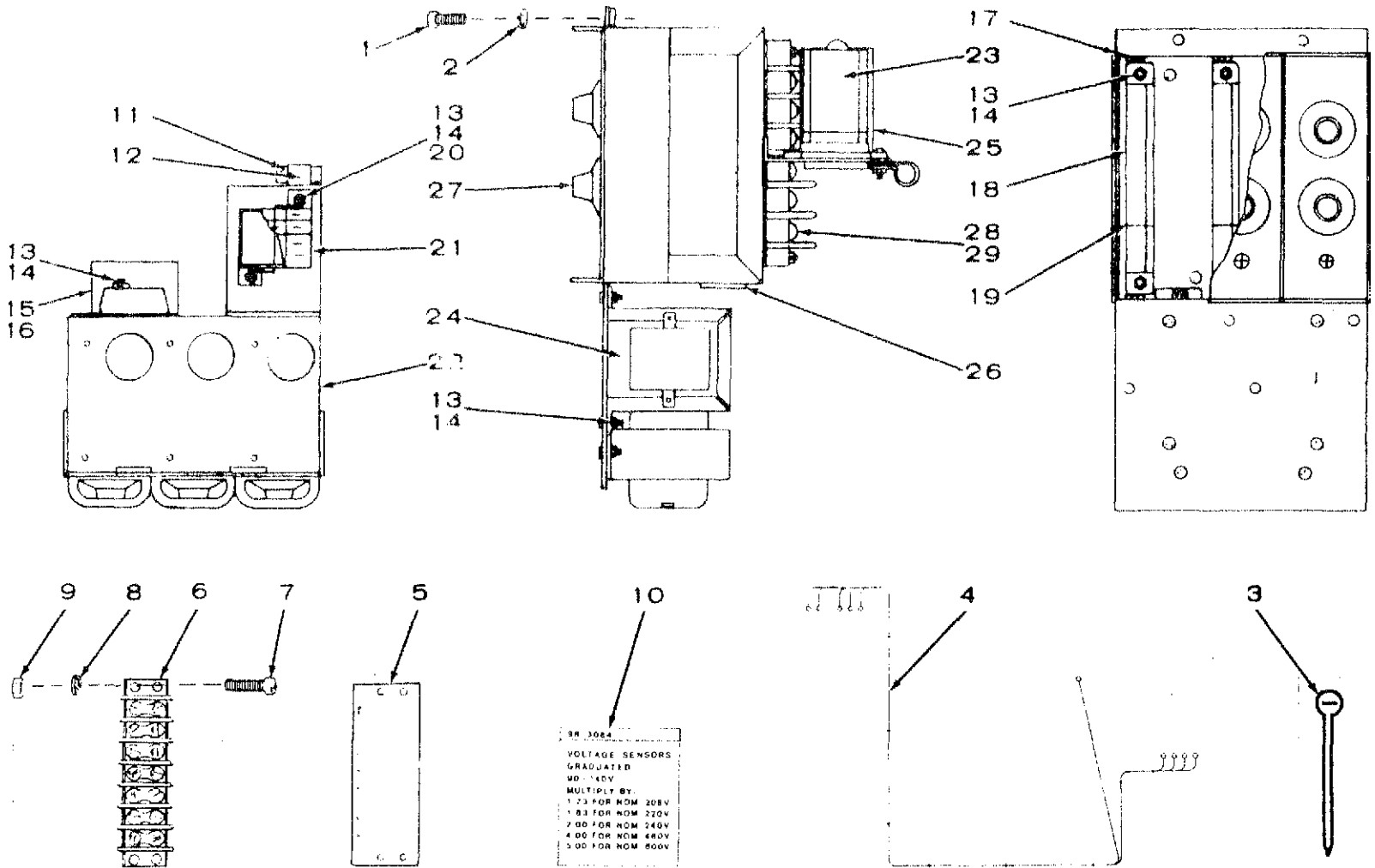
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)		
	300-1365	1	Over or Under (1)
	300-1366	1	Over and Under (1)
	300-1367	1	Over or Under (3)
	300-1368	1	Over and Under (3)
1	812-0061	3	Screw, Machine - Round Head (#6-32 x 3/8")
2	853-0003	3	Washer, Lock - ET (#6)
3	332-0942	6	Tie, Cable
4	338-1004	1	Harness, Wiring
5	301-4088	1	Plate, Cover (Packages with Over or Under Voltage Sensors)
6	98-3084	1	Decal, Voltage Sensors Graduated Voltage
7	356-0067	1	Capacitor Assembly (Includes Terminal and Leads)
8	332-1414	1	Clamp, Loop

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

28-3084
VOLTAGE SENSORS GRADUATED
90-140V
MULTIPLY BY:
1.73 FOR NOM 208V
1.43 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	1	Under Voltage - 4.5D Volt, 5 Phase
300-1373	1	1	Over Voltage - 4.5D Volt, 3 Phase
300-1374	1	1	Over and Under Voltage - 4.5D Volt, 3 Phase
300-1369	1	1	Under Voltage - 4, 3 Phase
300-1370	1	1	Over Voltage - 220 Volt, 3 Phase
300-1371	1	1	Over and Under Voltage - 4, 3 Phase
300-1375	1	1	Under Voltage - 4X, 3 Phase
300-1376	1	1	Over Voltage - 4X, 3 Phase
300-1377	1	1	Over and Under Voltage - 4X, 3 Phase
300-1378	1	1	Under Voltage - 9X, 3 Phase
300-1379	1	1	Over Voltage - 9X, 3 Phase
300-1380	1	1	Over and Under Voltage - 9X, 3 Phase
1	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		

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

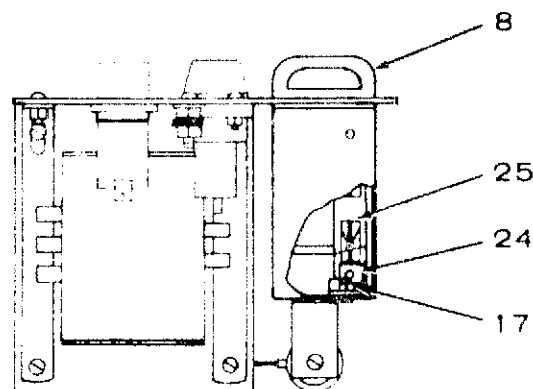
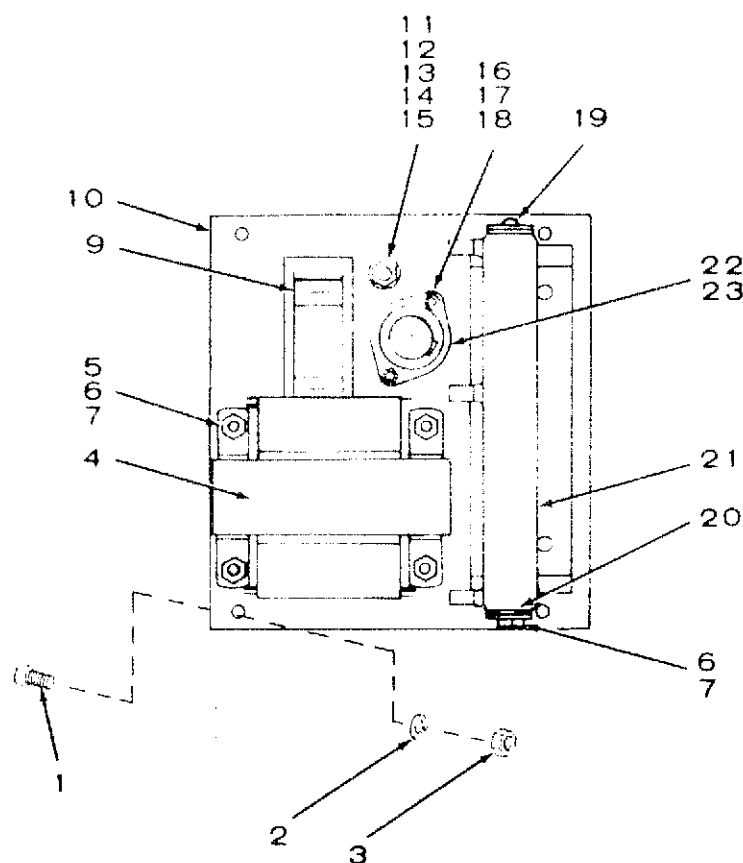
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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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

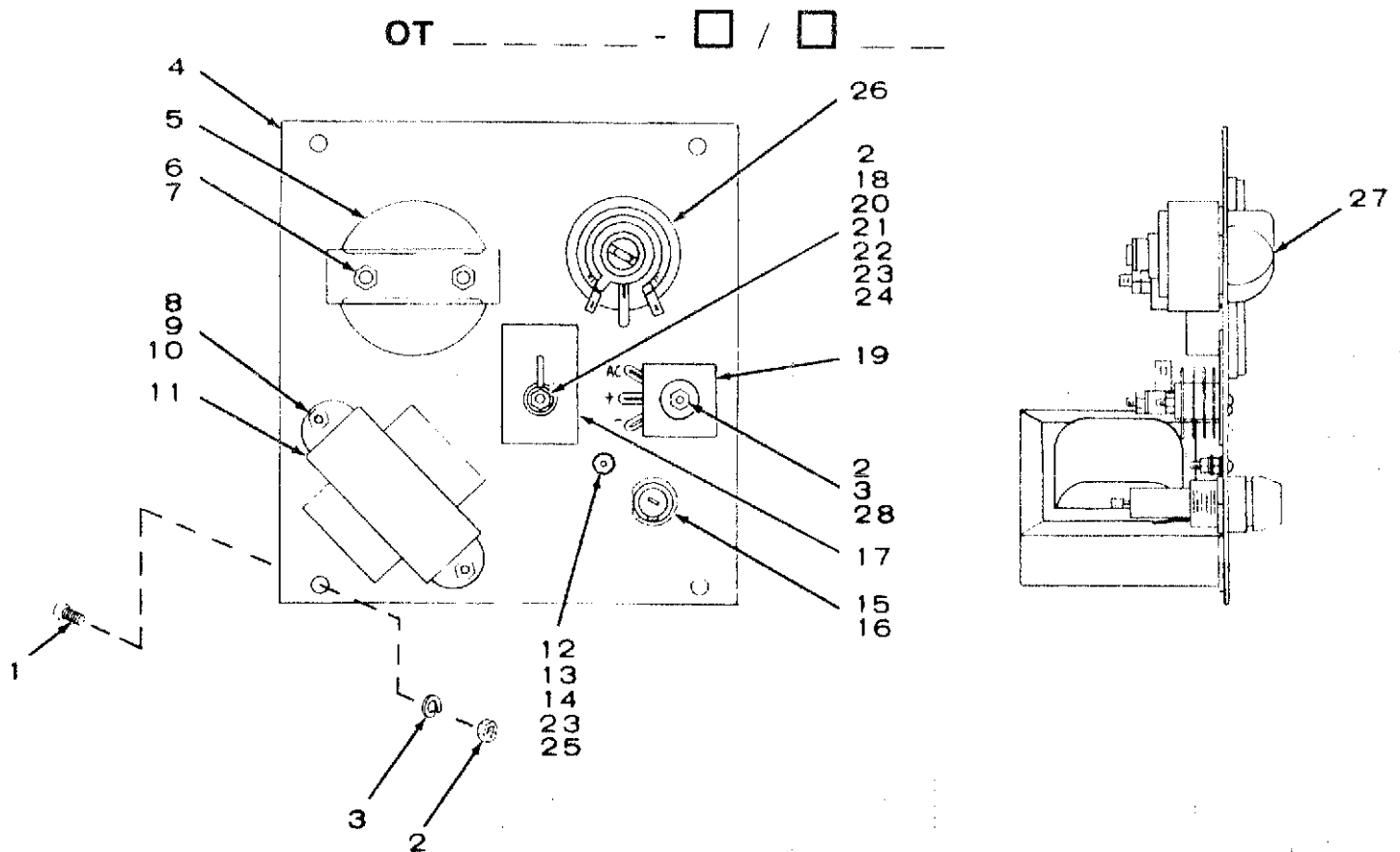
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CHARGER PACKAGE, BATTERY (2 Ampere) - OPTIONAL WIRE IN		
	305-0568	1	3,4,5D AC Input, 12 Volt DC Output
	305-0570	1	3,4,5D AC Input, 24 Volt DC Output
	305-0569	1	4X, 9X AC Input, 12 Volt DC Output
	305-0571	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

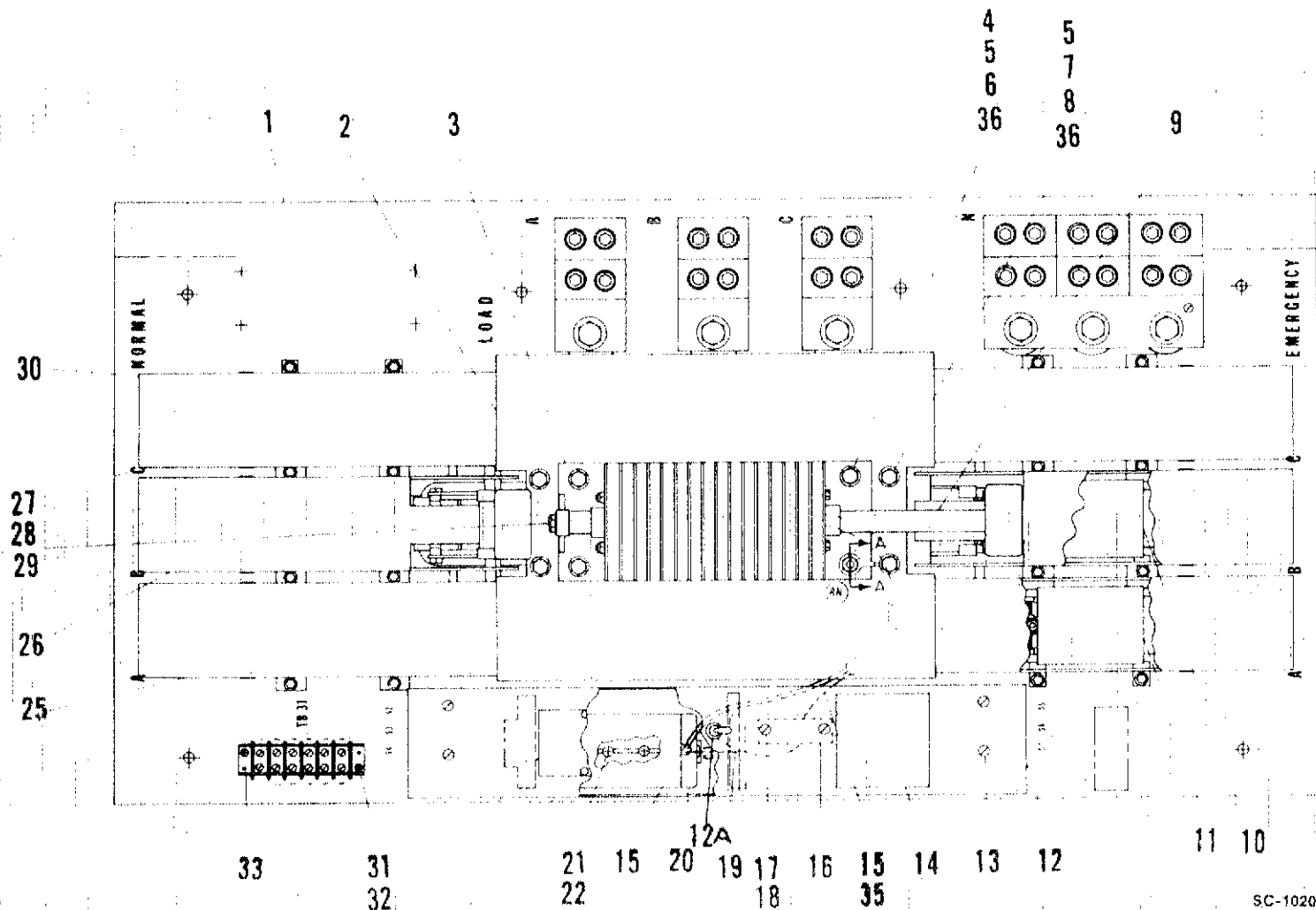
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	302-0807	1	Ammeter, DC
10	301-4148	1	Rack, Chassis
11	810-0081	1	Screw, Machine - Round Head Brass (#8-32 x 5/8")
12	856-0002	1	Washer, Lock - EIT (#8)
13	871-0007	2	Nut, Hex - Machine (#8-32)
14	853-0005	1	Washer, Lock - ET (#8)
15	526-0048	1	Washer, Flat (.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

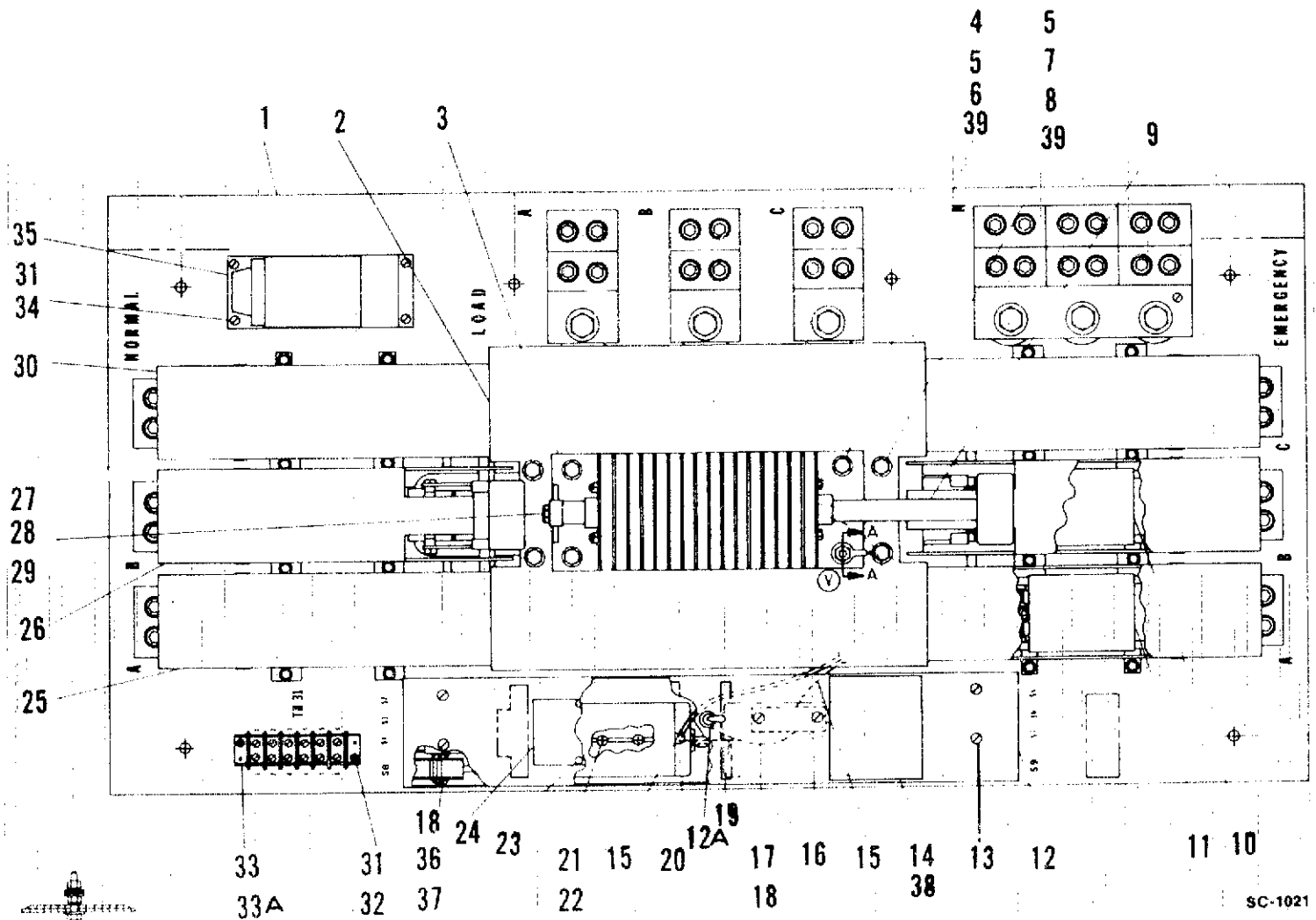
TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)

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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)
306-1146	1		110/120 Volt 50/60 Hertz	13	815-0364	1	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
306-1147	1		208/220/240 Volt, 50/60 Hertz	14	98-3489	1	Label, instructions
306-1148	1		347 Volt, 50/60 Hertz	15	332-2211	3	Terminal, Receptacle
306-1149	1		440/480 Volt 50/60 Hertz	16	BREAKER, CIRCUIT		
Rear Connected				320-0613	1		110/120 Volt, 50/60 Hertz
306-1150	1		110/120 Volt, 50/60 Hertz	320-0611	1		208/220/240 Volt, 50/60 Hertz
306-1151	1		208/220/240 Volt, 50/60 Hertz	320-0608	1		347 Volt, 50/60 Hertz
306-1152	1		347 Volt, 50/60 Hertz	320-0609	1		440/480 Volt, 50/60 Hertz
306-1153	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
306-0848	1		110/120 Volt, 50/60 Hertz	20	CAPACITOR		
306-0849	1		208/220/240 Volt, 50/60 Hertz	312-0202	1		110/120 Volt, 50/60 Hertz
306-0850	1		347 Volt, 50/60 Hertz	312-0218	1		208/220/240 Volt, 50/60 Hertz
306-0851	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
306-0854	1		110/120 Volt, 50/60 Hertz	21	SCREW, MACHINE - FLAT HEAD (#10-32 x 7/8")		
306-0855	1		208/220/240 Volt, 50/60 Hertz	815-0165	2		110/120/208/220/240 Volt, 50/60 Hertz
306-0856	1		347 Volt, 50/60 Hertz	815-0165	4		347/440/480 Volt, 50/60 Hertz
306-0857	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
306-1138	1		2 Pole, 1 Phase - Standard	855-0008	4		347/440/480 Volt, 50/60 Hertz
306-1139	1		2 Pole, 1 Phase - Rear Connected	25	306-0331	2	Cover, Contact (LH)
306-0820	1		3 Pole, 3 Phase - Standard	26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units)
306-0821	1		3 Pole, 3 Phase - Rear Connected	27	306-1385	2	Rod End Assembly - Actuator
2	306-0804	1	Plate, Motor Mounting	28	800-0032	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		
306-1189	1		208/220 Volt, 50/60 Hertz	320-0611	1		208/220/240 Volt, 50/60 Hertz
306-1189	1		240 Volt, 60 Hertz	320-0608	1		347 Volt, 50/60 Hertz
306-1190	1		240 Volt, 50 Hertz	320-0609	1		440/480 Volt, 50/60 Hertz
306-1191	1		347 Volt, 50/60 Hertz				
306-1192	1		440/480 Volt, 50/60 Hertz	17	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
Rear Connected				18	870-0183	6	Nut, Hex W/ET (#6-32)
306-1194	1		208/220 Volt, 50/60 Hertz	19	336-2787	1	Lead Assembly - 347/440/480 Volt, 50/60 Hertz
306-1194	1		240 Volt, 60 Hertz				
306-1195	1		240 Volt, 50 Hertz	20	CAPACITOR		
306-1196	1		347 Volt, 50/60 Hertz	312-0218	1		208/220/240 Volt, 50/60 Hertz
306-1197	1		440/480 Volt, 50/60 Hertz	312-0205	2		347 Volt, 50/60 Hertz
3 Pole				312-0204	2		440/480 Volt, 50/60 Hertz
Standard							
306-1179	1		208/220 Volt, 50/60 Hertz	21	SCREW, MACHINE - FLAT (#10-32 x 7/8")		
306-1179	1		240 Volt, 60 Hertz	815-0165	2		208/220/240 Volt, 50/60 Hertz
306-1180	1		240 Volt, 50 Hertz	815-0165	4		347/440/480 Volt, 50/60 Hertz
306-1181	1		347 Volt, 50/60 Hertz				
306-1182	1		440/480 Volt, 50/60 Hertz	22	WASHER, LOCK - ET (#10)		
Rear Connected				855-0008	2		208/220/240 Volt, 50/60 Hertz
306-1184	1		208/220 Volt, 50/60 Hertz	855-0008	4		347/440/480 Volt, 50/60 Hertz
306-1184	1		240 Volt, 60 Hertz				
306-1185	1		240 Volt, 50 Hertz	25	306-0331	2	Cover, Contact (LH)
306-1186	1		347 Volt, 50/60 Hertz	26	306-0332	2	Cover, Contact - 3 Pole, 3 Phase Units
306-1187	1		440/480 Volt, 50/60 Hertz	27	306-1385	2	Rod End, Actuator
1 SWITCH ASSEMBLY (See Separate Group for Components)				28	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
306-1138	1		2 Pole, 1 Phase - Standard	29	850-0045	2	Washer, Lock - Spring (5/16")
306-1139	1		2 Pole, 1 Phase - Rear Connected	30	306-0331	2	Cover, Contact (RH)
306-0820	1		3 Pole, 3 Phase - Standard	31	854-0007	6	Washer, Lock - IT (#8)
306-0821	1		3 Pole, 3 Phase - Rear Connected	32	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
2 306-0804 1 Plate, Motor Mounting				33	338-1115	1	Harness, Wiring (Includes Terminal Block)
3 ACTUATOR, LINEAR				33A	332-1541	1	Block, Terminal (Part of Wiring Harness #338-1115)
306-0843	1		208/220/240 Volt, 50/60 Hertz	34	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
306-0842	1		347 Volt, 50/60 Hertz	35			Relay Assembly (Consists of Indented Parts:)
306-0841	1		440/480 Volt, 50/60 Hertz	301-4577	1		Bracket, Relay Mounting
4	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")				Relay, Time Delay (Includes Mounting Hardware)
5	850-0040	9	Washer, Lock - Spring (1/4")	307-1628	1		208/220 Volt, 50/60 Hertz
6	862-0001	5	Nut, Hex (1/4-20)				
7	800-0187	4	Screw, Cap - Hex Head (1/4-20 x 5")	307-1628	1		240 Volt, 60 Hertz
8	306-0602	4	Spacer, Actuator Mounting	307-1629	1		240 Volt, 50 Hertz
9	306-0642	1	Rod, Actuator	307-1630	1		347 Volt, 50/60 Hertz
10	306-1038	2	Barrier, Arc Chute - 3 Pole, 3 Phase Units	307-1631	1		440/480 Volt, 50/60 Hertz
11	306-1041	4	Barrier, Arc Chute				
12	306-0641	1	Cover Assembly (Includes Toggle Switch)	36	309-0297	2	Switch, Snap Action
12A	308-0406	1	Switch, Toggle (Part of 306-0641 Cover Assembly)	37	306-0281	4	Barrier, Switch
13	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")	38	332-0942	10	Tie, Cable
				39	526-0018	10	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
				40	800-0009	1	Screw, Cap - Hex Head (1/4-20 x 1-1/2")

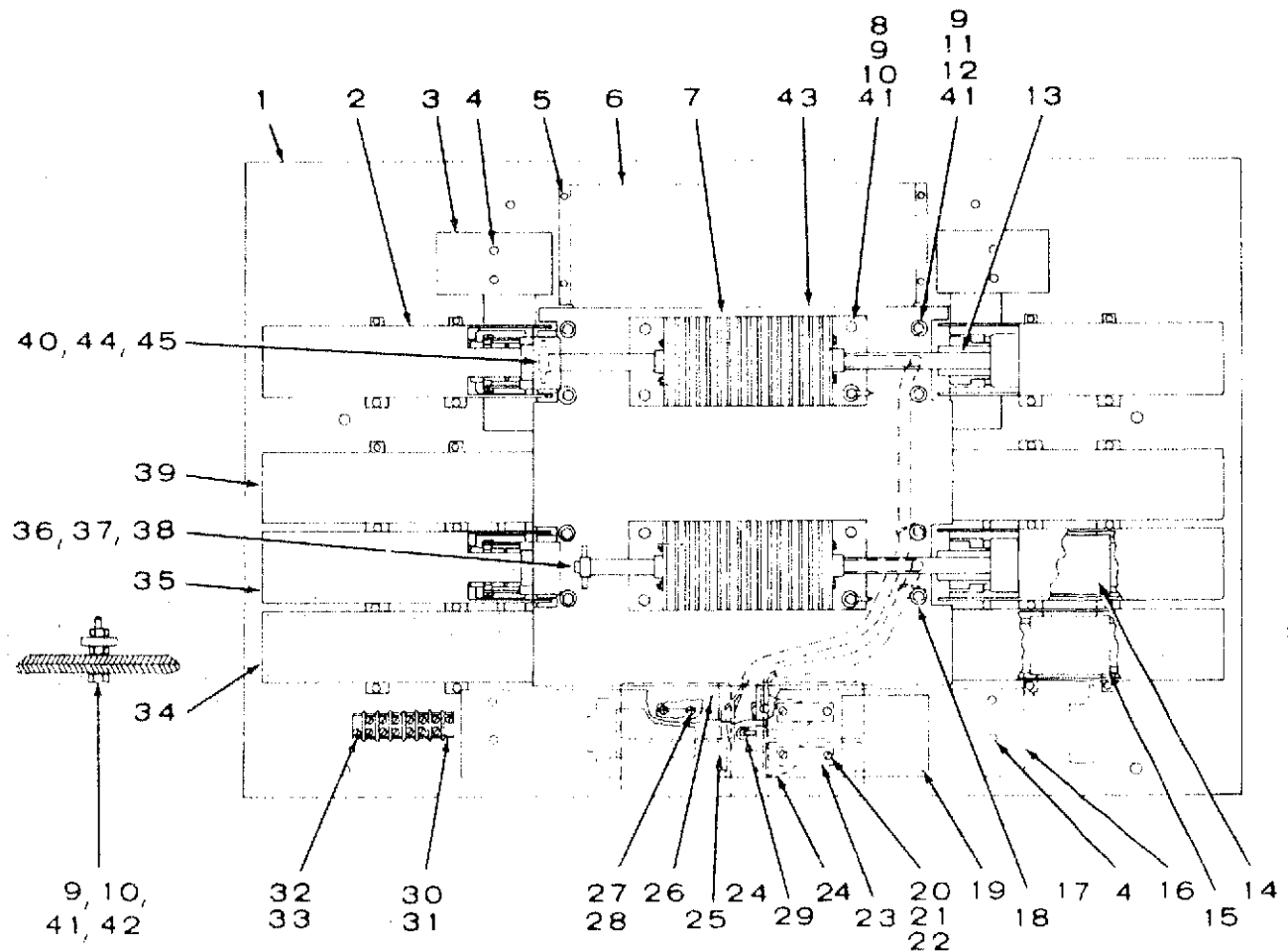
NOTE: To determine correct voltage, refer to your nameplate identification in front of manual.

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Power Generation

TRANSFER SWITCH ASSEMBLY (4 POLE)



SC-1022

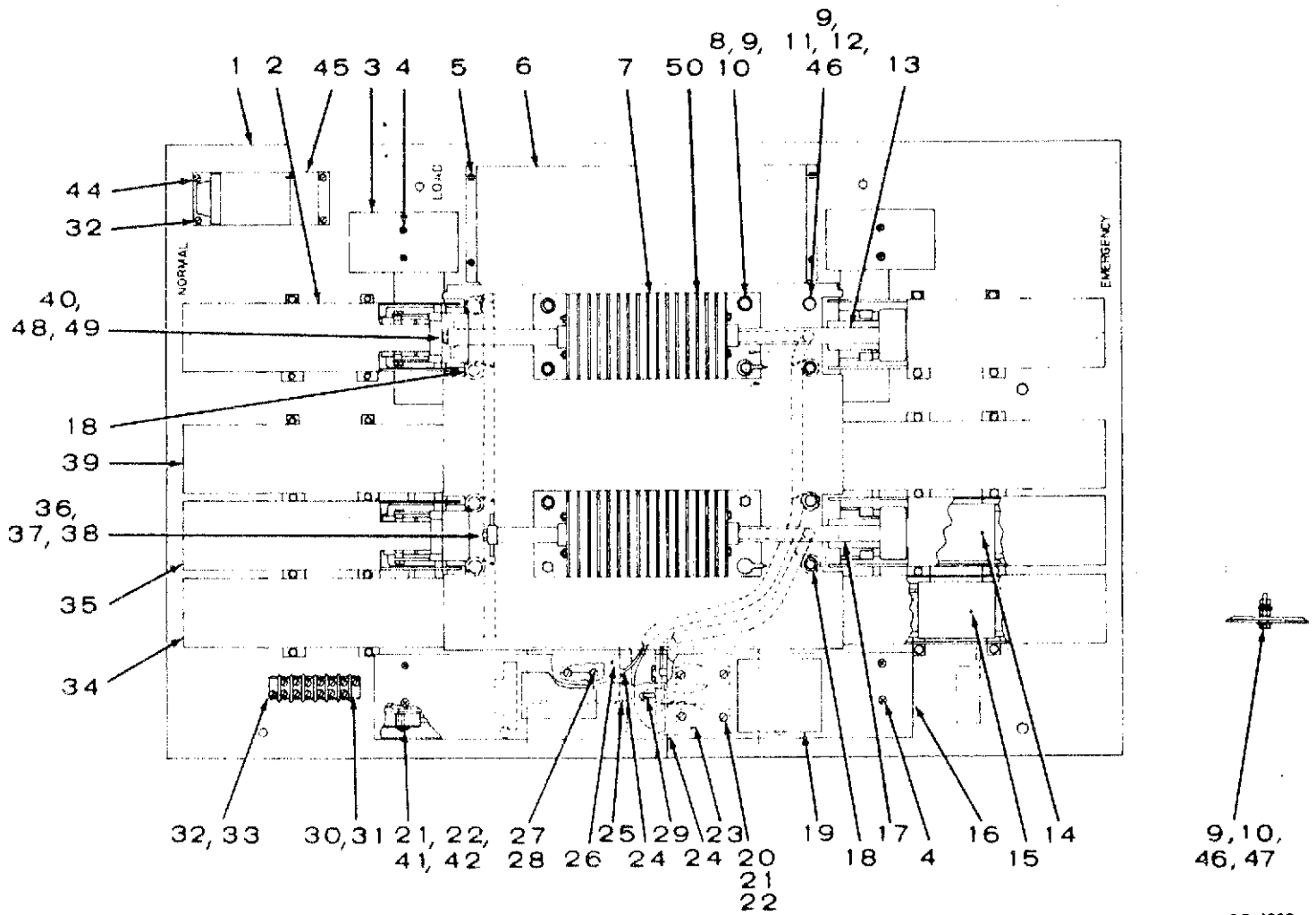
TRANSFER SWITCH ASSEMBLY (4 POLE)

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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
	306-1507	1	208/220/240 Volt, 50/60 Hertz				
	306-1508	1	347 Volt, 50/60 Hertz	24	332-2211	6	Terminal
	306-1509	1	440/480 Volt, 50/60 Hertz	25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz Units
			Rear Connected				
	306-1510	1	208/220/240 Volt, 50/60 Hertz	26	CAPACITOR		
					312-0218	2	208/220/240 Volt, 50/60 Hertz
	306-1511	1	347 Volt, 50/60 Hertz		312-0205	4	347 Volt, 50/60 Hertz
	306-1512	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")		
	306-1487	1	Standard		815-0165	4	208/220/240 Volt, 50/60 Hertz
	306-1488	1	Rear Connected		815-0165	8	347/440/480 Volt, 50/60 Hertz
2	306-1433	2	Cover, Contact				
3	306-1430	2	Cover, Auxiliary Switch	28	WASHER, LOCK - ET (#10)		
4	815-0364	8	Screw, Machine - Round Head x Recessed W/ET (#10-32 x 1/2")		855-0008	4	208/220/240 Volt, 50/60 Hertz
					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)
				33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
	306-0842	2	347 Volt, 50/60 Hertz	34	306-0331	2	Cover, Contact (LH)
	306-0841	2	440/480 Volt, 50/60 Hertz	35	306-0332	2	Cover, Contact
8	800-0004	6	Screw, Cap - Hex Head (1/4-20 x 5/8")	36	306-1385	2	Rod End, Actuator
9	850-0040	20	Washer, Lock - Spring	37	850-0045	2	Washer, Lock - Spring (5/16")
10	862-0001	10	Nut, Hex (1/4-20)	38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/6")
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")	39	306-0333	2	Cover, Contact (RH)
12	306-0602	8	Spacer, Actuator Mounting	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
13	306-1475	1	Rod, Actuator	41	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
14	306-1038	2	Barrier, Arc Chute	42	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
15	306-1041	4	Barrier, Arc Chute	43	306-1432	1	Cover, Motor Mounting
16	306-1580	1	Cover, Auxiliary Switch	44	306-1647	2	Rod End, Actuator
17	306-1474	1	Rod Actuator	45	850-0050	2	Washer, Lock - Spring (3/8")
18	332-0942	10	Tie, Cable				
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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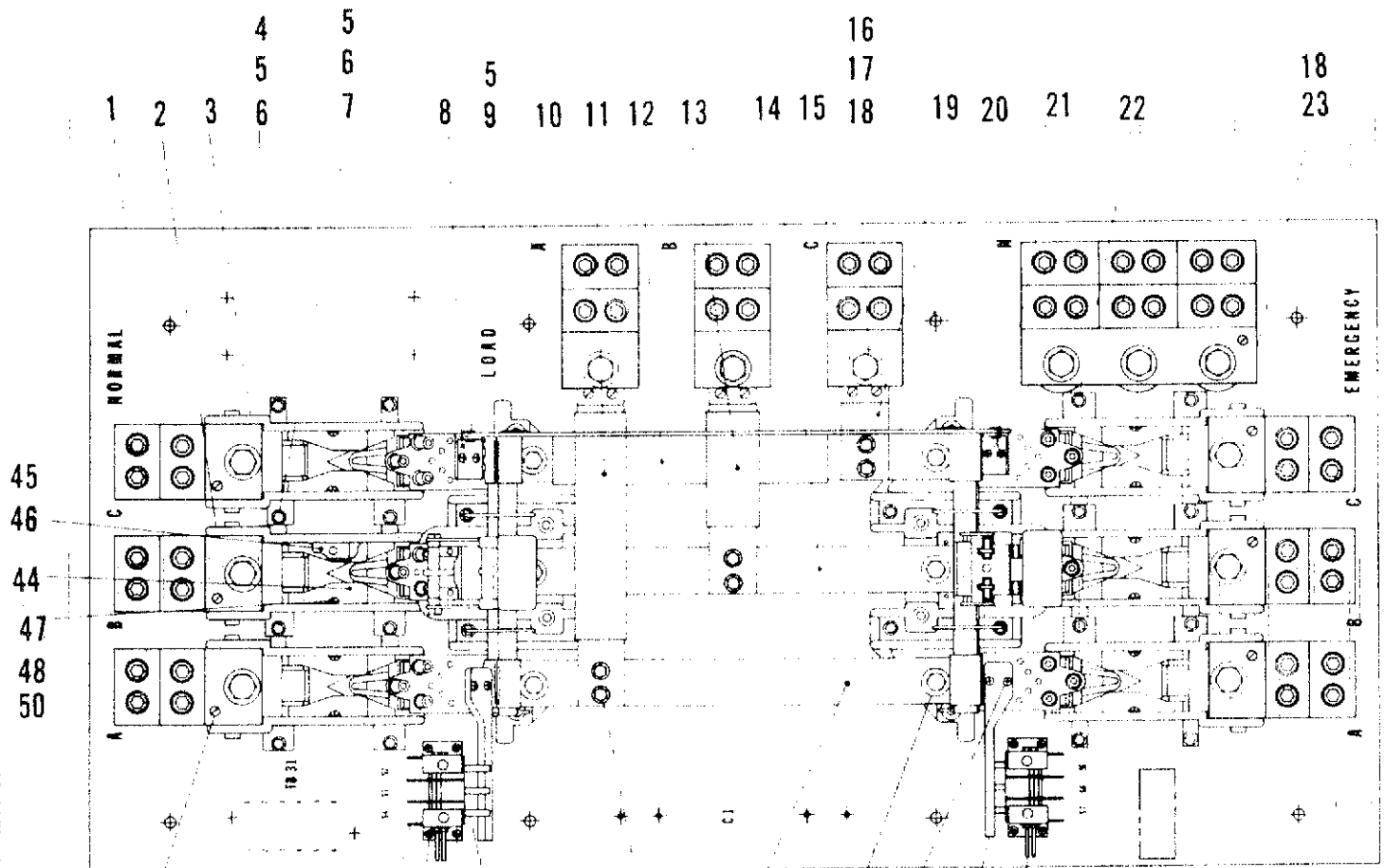
TRANSFER SWITCH ASSEMBLY (4 POLE) - PROGRAMMED TRANSITION

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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,		
	306-1597	1	208/220 Volt, 50/60 Hertz	312-0205	4	347 Volt, 50/60 Hertz		
	306-1597	1	240 Volt, 60 Hertz	312-0204	4	440/480 Volt, 50/60 Hertz		
	306-1598	1	240 Volt, 50 Hertz					
	306-1599	1	347 Volt, 50/60 Hertz	27	SCREW, MACHINE - FLAT HEAD X RECESSED (#10-32)			
	306-1600	1	440/480 Volt, 50/60 Hertz	815-0165	4	208/220/240 Volt,		
			Rear Connected			50/60 Hertz		
	306-1601	1	208/220 Volt, 50/60 Hertz	815-0165	8	347/440/480 Volt,		
	306-1601	1	240 Volt, 60 Hertz			50/60 Hertz		
	306-1602	1	240 Volt, 50 Hertz	28	WASHER, LOCK - ET COUNTERSUNK (#10)			
	306-1603	1	347 Volt, 50/60 Hertz	855-0008	4	208/220/240 Volt,		
	306-1604	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,		
	306-1487	1	Standard			50/60 Hertz		
	306-1488	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, 50/60 Hertz	36	306-1385	2	Rod End Actuator	
	306-0842	2	347 Volt, 50/60 Hertz	37	850-0045	2	Washer, Lock - Spring (5/16")	
	306-0841	2	440/480 Volt, 50/60 Hertz	38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	
8	800-0004	8	Screw, Cap - Hex Head (1/4-20 x 5/8")	39	306-0333	2	Cover, Contact (RH)	
9	850-0040	18	Washer, Lock - Spring (1/4")	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")	
10	862-0001	10	Nut, Hex (1/4-20)	41	306-0281	4	Barrier, Switch	
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")	42	309-0297	2	Switch, Snap Action	
12	306-0602	8	Spacer, Actuator Mounting	43	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")	
13	306-1475	1	Rod, Actuator	44	RELAY, TIME DELAY			
14	306-1038	2	Barrier, Arc Chute	307-1628	1	208/220 Volt, 50/60 Hertz		
15	306-1041	4	Barrier, Arc Chute	307-1628	1	240 Volt, 60 Hertz		
16	306-1580	1	Cover, Auxiliary Switch	307-1629	1	240 Volt, 50 Hertz		
17	306-1474	1	Rod, Actuator	307-1630	1	347 Volt, 50/60 Hertz		
18	332-0821	1	Tie, Cable	307-1631	1	440/480 Volt, 50/60 Hertz		
19	98-3489	1	Label, Instructions					
20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")	45	301-4577	1	Bracket, Relay Mounting	
21	853-0003	8	Washer, Lock - ET (#6)	46	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)	
22	860-0006	8	Nut, Hex (#6-32)	47	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")	
23	BREAKER, CIRCUIT			48	850-0050	2	Washer, Lock - Spring (3/8")	
	320-0611	2	208/220/240 Volt, 50/60 Hertz	49	306-1647	2	Rod End, Actuator	
	320-0608	2	347 Volt, 50/60 Hertz	50	306-1432	1	Cover, Motor Mounting	
	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					

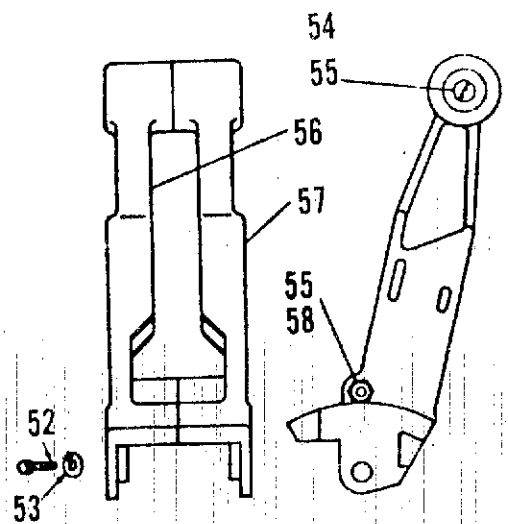
NOTE: To determine correct voltage, refer to your nameplate and model identification in front of manual.

SWITCHING ASSEMBLY (2 AND 3 POLE)



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42 39 38 37 36 18 49 18 29 28 25
 32 30 31 51 26 27
 33 34 35



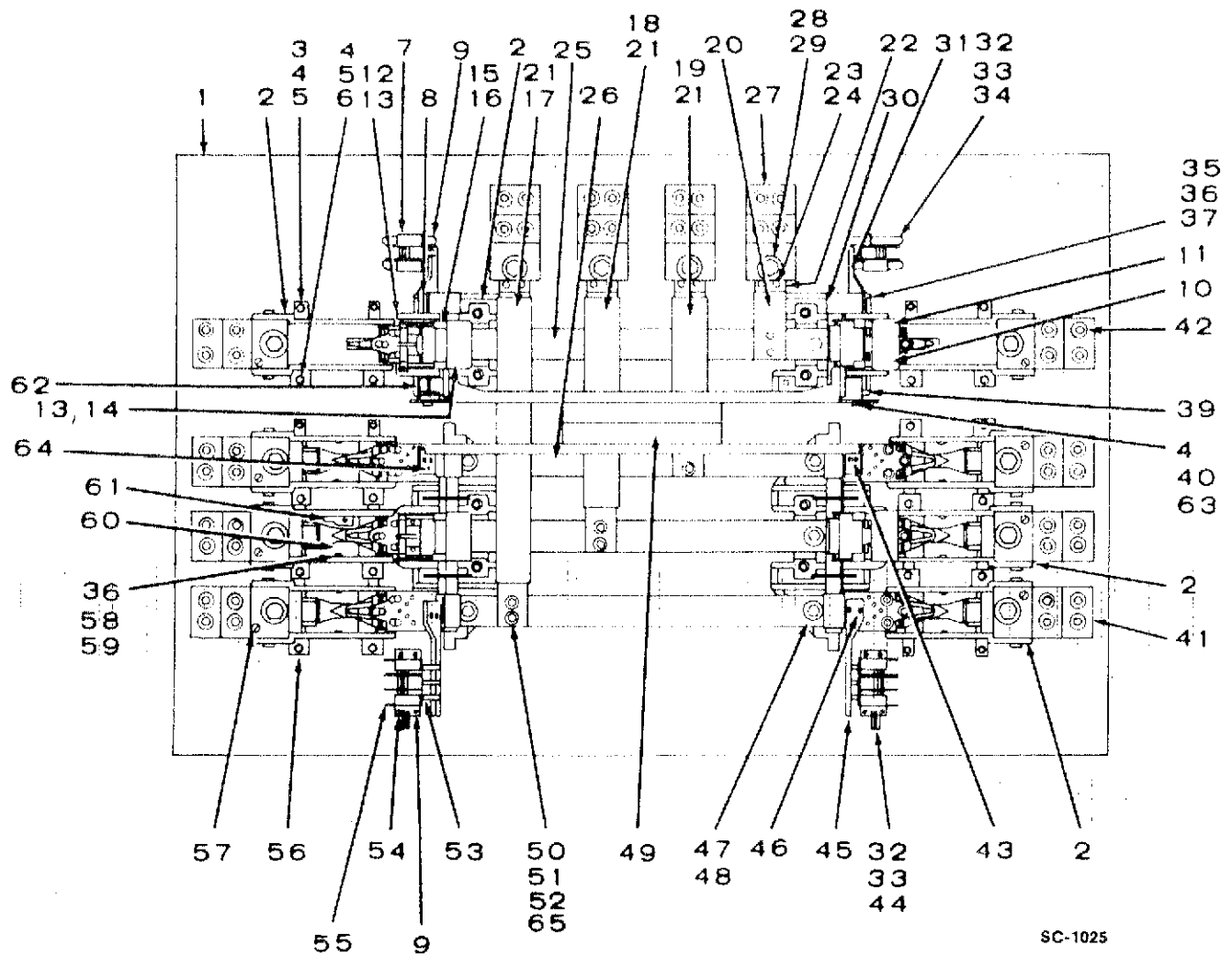
SWITCHING ASSEMBLY (2 AND 3 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)		
			2 Pole, 1 Phase
	306-1138	1	Standard
	306-1139	1	Rear Connected
			3 Pole, 3 Phase
	306-0820	1	Standard
	306-0821	1	Rear Connected
1	BASE		
			2 Pole, 1 Phase
	306-1136	1	Standard
	306-1137	1	Rear Connected
			3 Pole, 3 Phase
	306-0527	1	Standard
	306-0659	1	Rear Connected
2	BLOCK ASSEMBLY - 3 POLE, 3 PHASE UNITS		
	306-1050	2	Standard
	306-1052	2	Rear Connected
3	BLOCK ASSEMBLY		
	306-1051	4	Standard
	306-1053	4	Rear Connected
4	SCREW, CAP - HEX HEAD (1/4-20 x 1")		
	800-0007	16	2 Pole, 1 Phase
	800-0007	12	3 Pole, 3 Phase
5	526-0018	26	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
6	854-0014	24	Washer, Lock - IT (1/4")
7	SCREW, CAP - HEX HEAD (1/4-20 x 1-1/4")		
	800-0008	8	2 Pole, 1 Phase
	800-0008	12	3 Pole, 3 Phase
8	306-0508	2	Arm, Interlock Assembly
9	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
10	CONTACT AND BLOCK KIT (Includes Parts Marked *)		
	306-1829	2	2 Pole, 1 Phase
	306-1830	2	3 Pole, 3 Phase
11	STRAP, LOAD		
	337-0324	1	Standard
	337-0231	1	Rear Connected
12	337-0216	1	Strap, Jumper
13	STRAP, LOAD - 3 Pole, 3 PHASE		
	337-0323	1	Standard
	337-0231	1	Rear Connected
14	337-0217	1	Strap, Jumper - 3 Pole, 3 Phase
15	LUG, SOLDERLESS - STANDARD CONNECT		
	332-1785	5	2 Pole, 1 Phase
	332-1785	6	3 Pole, 3 Phase
16	SCREW, CAP - HEX HEAD (1/2-13 x 1-1/2") - STANDARD CONNECT		
	800-0092	5	2 Pole, 1 Phase
	800-0092	6	3 Pole, 3 Phase
17	WASHER, LOCK - SPRING (1/2") - STANDARD CONNECT		
	851-0023	5	2 Pole, 1 Phase
	851-0023	6	3 Pole, 3 Phase
19	STRAP, LOAD		
	337-0330	1	Standard
	337-0231	1	Rear Connected
20	306-0534	1	Bar, Interlock
21	815-0446	4	Screw, Machine - Round Head W/IT (#8-32 x 1/2")
22	166-0122	8	Spacer, Mounting Screw
23	337-0319	1	Bar, Neutral - Standard Connected
25	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
26	850-0020	4	Washer, Lock - Spring (#6)
27	860-0005	4	Nut, Hex (#6-32)
28	306-0253	2	Lever
29	815-0447	4	Screw, Machine - Round Head W/IT (#8-32 x 3/4")
30	SCREW, CAP - HEX HEAD (3/8-16 x 1-3/4")		
	800-0053	4	2 Pole, 1 Phase
	800-0053	6	3 Pole, 3 Phase
31	WASHER, LOCK - SPRING (3/8")		
	851-0022	4	2 Pole, 1 Phase
	851-0022	6	3 Pole, 3 Phase
32	SCREW, CAP - HEX HEAD (3/8-16 x 1-1/4")		
	800-0051	2	2 Pole, 1 Phase
	800-0051	3	3 Pole, 3 Phase
33	WASHER, LOCK - SPRING (3/8")		
	851-0022	2	2 Pole, 1 Phase
	851-0022	3	3 Pole, 3 Phase
34	WASHER, LOCK - SPRING (3/8")		
	850-0050	2	2 Pole, 1 Phase
	850-0050	3	3 Pole, 3 Phase
35	NUT, HEX (3/8-16)		
	862-1003	2	2 Pole, 1 Phase
	862-1003	3	3 Pole, 3 Phase
36	309-0297	6	Switch, Snap Action
37	812-0082	8	Screw, Machine - Round Head (#8-32 x 3/4")
38	306-0636	4	Bracket, Auxiliary Switch
39	306-0281	8	Barrier, Switch
42	SCREW, CAP - HEX HEAD (#8-32 x 3/8")		
	815-0127	5	2 Pole, 1 Phase
	815-0127	7	3 Pole, 3 Phase
44	*CHUTE, ARC		
	306-0320	4	2 Pole, 1 Phase
	306-0320	6	3 Pole, 3 Phase
45	SPACER, ARC CHUTE		
	306-0668	8	2 Pole, 1 Phase
	306-0668	12	3 Pole, 3 Phase
47	SCREW, MACHINE - ROUND HEAD (#10-32 x 1-1/2")		
	812-0087	8	2 Pole, 1 Phase
	812-0087	12	3 Pole, 3 Phase
45	WASHER, LOCK (#8)		
	854-0007	8	2 Pole, 1 Phase
	854-0007	12	3 Pole, 3 Phase
49	337-0216	1	Strap, Ground
50	526-0048	12	Washer, Flat (.172" ID x 3/8" OD x 1/32" Thk)
51	306-1398	6	Bushing - 3 Pole, 3 Phase Units
52	815-0485	4	*Screw, Shoulder (#10-32 x 3/8")
53	850-0030	4	*Washer, Lock - Spring (#10)
54	813-0109	2	*Screw, Machine - Round Head (#10-32 x 1-3/4")
55	870-0298	4	*Nut, Hex - Locking (#10-32)
56	306-0643	2	*Handle, Switch (RH)
57	306-0644	2	*Handle, Switch (LH)
58	813-0110	2	*Screw, Machine - Round Head (#10-32 x 2")

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

SWITCHING ASSEMBLY (4 POLE)



SC-1025

SWITCHING ASSEMBLY (4 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCHING ASSEMBLY (Complete)			29	851-0023	4	Washer, Lock - Spring (1/2") - Standard Units
	306-1487	1	Standard	30	306-1426	2	Bracket, Level
	306-1488	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	306-1832	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	332-2066	6	Lug, Solderless - Standard Units
8	306-1427	2	Spacer, Lever	41	337-0232	6	Strap - Rear Connected Units
9	812-0082	16	Screw, Machine - Round Head (#8-32 x 3/4")	42	332-2066	2	Lug, Solderless - Standard Units
10	306-0643	4	Handle, Actuator - Half - Right Side	42	337-0232	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
	306-1454	1	Standard (Includes Parts Marked *)	50	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/8")
	337-0231	1	Rear Connected	51	850-0050	4	Washer, Lock - Spring (3/8")
18	STRAP, LOAD			52	862-0003	4	Nut, Hex (3/8-16)
	306-1453	1	Standard (Includes Parts Marked *)	53	308-0297	8	Switch, Snap Action
	337-0231	1	Rear Connected	54	306-0636	4	Bracket, Auxiliary Switch
19	STRAP, LOAD			55	306-0281	12	Barrier, Switch
	306-1458	1	Standard (Includes Parts Marked *)	56	166-0122	8	Spacer, Mounting Screw
	337-0231	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")
	306-1442	1	Standard (Includes Parts Marked Δ)	59	526-0048	12	Washer, Flat (.172 ID x 3/8 OD x 1/32" Thk)
	337-0231	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	337-0364	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 Units				
28	800-0092	4	Screw, Cap - Hex Head (1/2-13 x 1-1/2") - Standard Units				

* - Parts included in 306-1452, 306-1453 and 306-1454 Load Strap Assemblies.

Δ - Parts included in 306-1442 Load Strap Assembly.