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McGRAW-EDISON

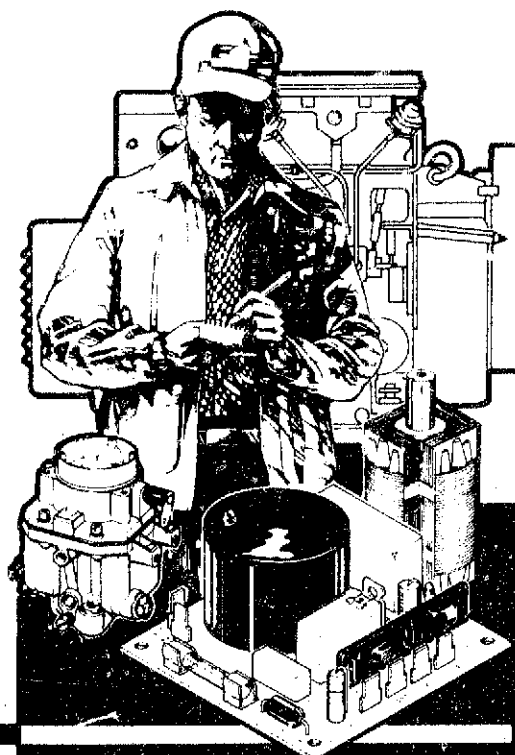
Onan

Parts Manual

OT

280 Amp

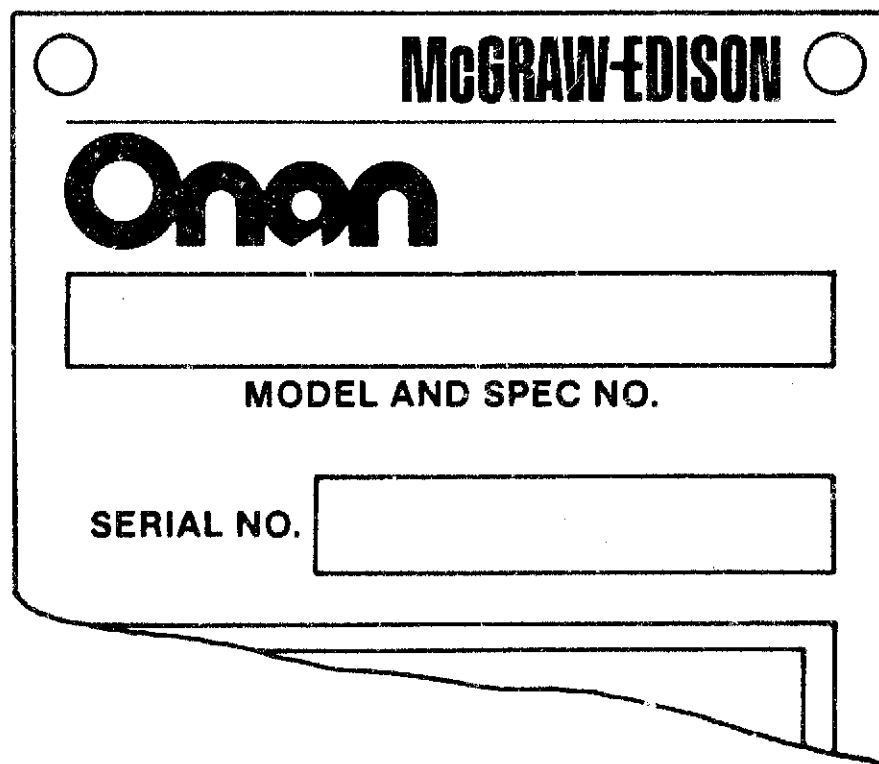
Transfer Switch



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.



The form is a rectangular label with a black border. At the top center, the text "McGRAW-EDISON" is printed in a bold, sans-serif font. Below this, the "Onan" logo is prominently displayed in a large, stylized, bold font. Underneath the logo is a horizontal rectangular box. Below this box, the text "MODEL AND SPEC NO." is printed in a bold, sans-serif font. Further down is another horizontal rectangular box. To the left of this box, the text "SERIAL NO." is printed in a bold, sans-serif font. The bottom right corner of the form has a small, curved tab-like shape. The entire form is designed to be filled out with information from an Onan nameplate.

McGRAW-EDISON

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

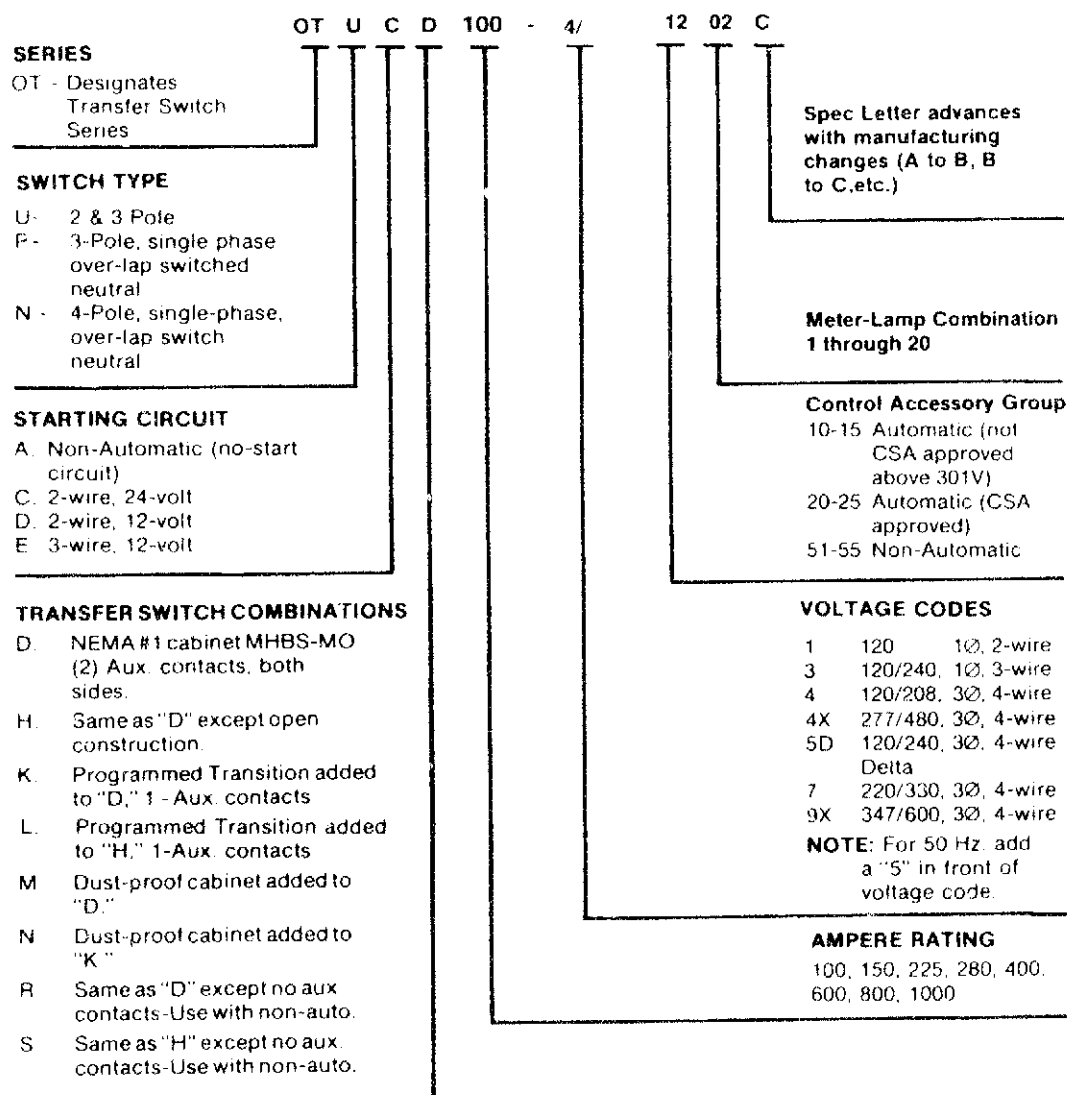
For handy reference, insert "YOUR" nameplate information in the spaces above.

INDEX

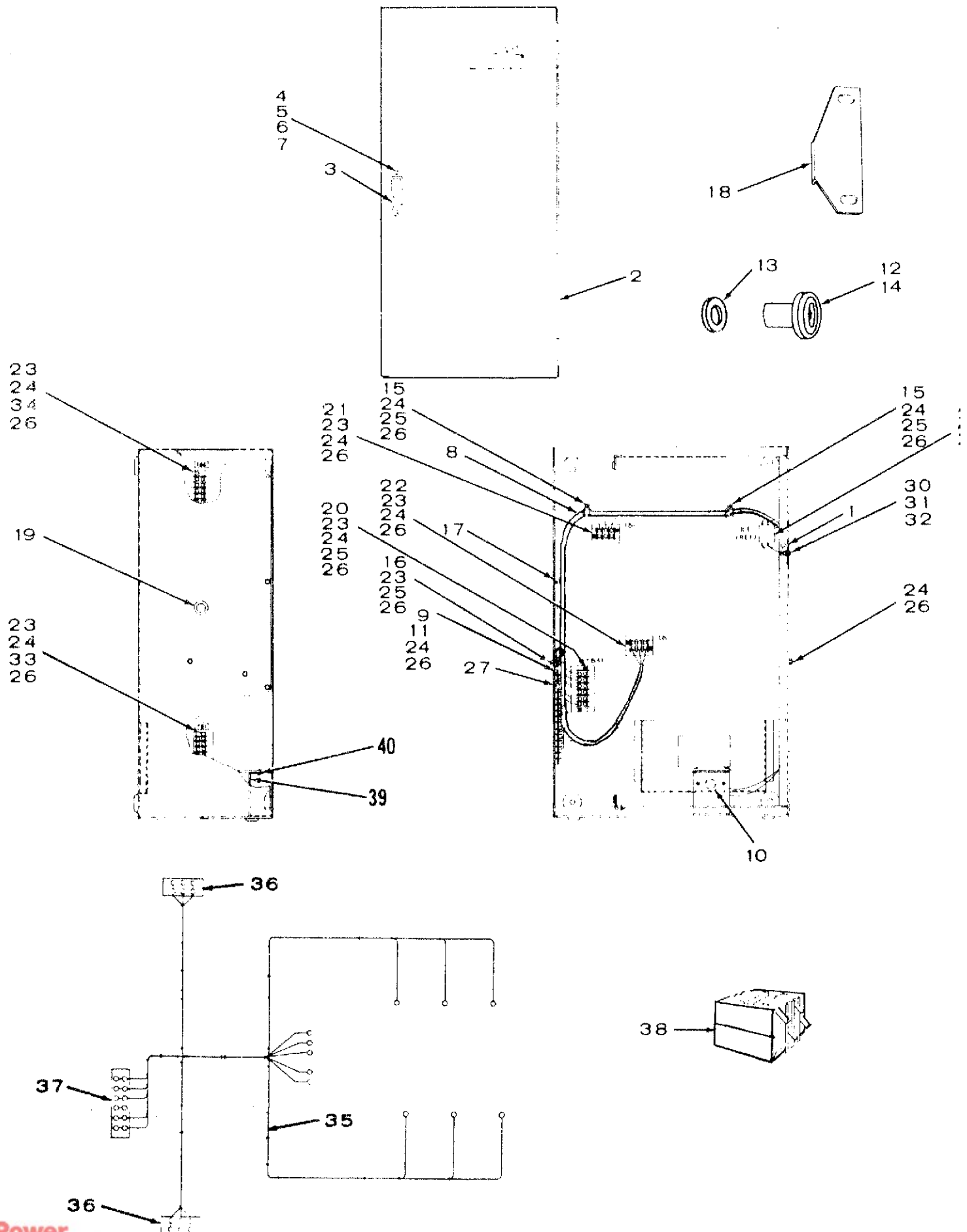
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This catalog applies to the OT Transfer Switches as indicated below. Parts are arranged in sections. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations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

MODEL IDENTIFICATION



CABINET ASSEMBLY (AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,K,L



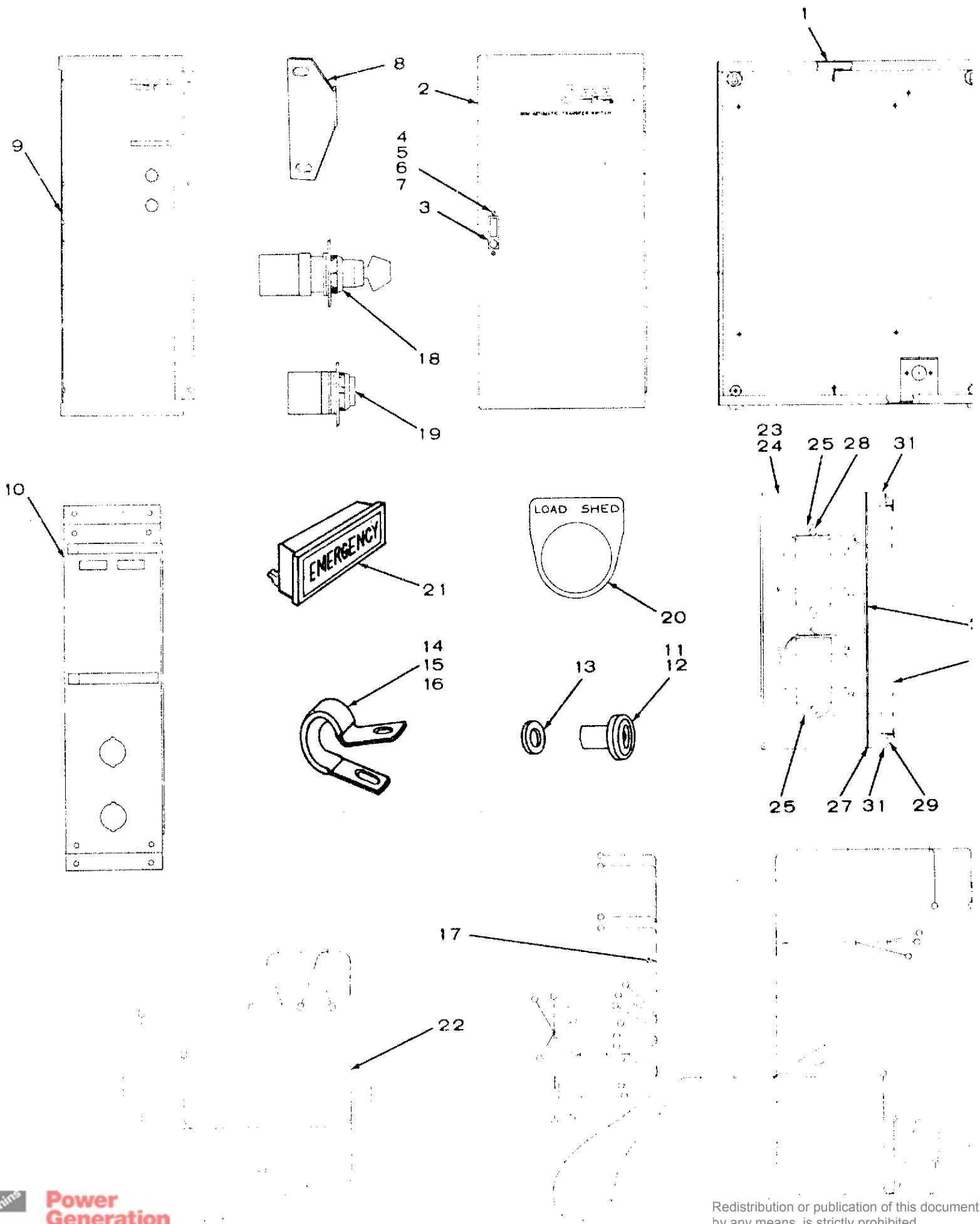
CABINET ASSEMBLY (AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,K,L

OT ☐ ☐ / ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BOX, CONTROL			23	812-0084	12	Screw, Machine - Round Head (#8-32 x 1") - Transfer Switch Combinations H,L
	301-4300	1	Transfer Switch Combinations D,K				
	301-4847	1	Transfer Switch Combinations H,L	24	853-0005	16	Washer, Lock - ET (#8) - Transfer Switch Combinations H
2	301-4323	1	Door, Cabinet - Transfer Switch Combinations D,K (Includes Parts Marked *)	25	812-0077	4	Screw, Machine - Round Head (#8-32 x 3/8") - Transfer Switch Combinations H,L
3	406-0362	1	*Lock, Panel - Transfer Switch Combinations D,K	26	860-0008	16	Nut, Hex (#8-32) - Transfer Switch Combinations H,L
4	813-0102	2	*Screw, Machine - Round Head (#10-32 x 5/8") - Transfer Switch Combinations D,K	27	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8") - Transfer Switch Combinations H,L
5	861-0008	2	*Nut, Hex (#10-32) - Transfer Switch Combinations D,K	28	526-0048	2	Washer, Flat - Brass (.172" ID x 3/8" OD x 1/32" Thk) - Transfer Switch Combinations H
6	853-0008	2	*Washer, Lock - ET (#10) - Transfer Switch Combinations D,K	29	860-0006	2	Nut, Hex (#6-32) - Transfer Switch Combinations H,L
7	406-0364	2	*Spacer, Door Latch - Transfer Switch Combinations D,K	30	810-0081	1	Screw, Machine - Round Head - Brass (#8-32 x 5/8") - Transfer Switch Combinations H,L
8	HARNESS, WIRING (Includes Parts Marked †)			31	526-0062	2	Washer, Flat - Brass (.200" ID x 1/2" OD x 1/16" Thk) - Transfer Switch Combinations H
	338-1049	1	Transfer Switch Combinations D and K (Except Voltage Codes 7,9X,57,59X)	32	871-0007	2	Nut, Hex (#8-32) - Brass - Transfer Switch Combinations H
	338-1049	1	Transfer Switch Combinations H,L	33	332-1699	1	Strip, Marker - Transfer Switch Combinations H,L
	338-1105	1	Transfer Switch Combinations D and K - Voltage Codes 7,57	34	332-1469	1	Strip, Marker - Transfer Switch Combinations H,L
	338-1105	1	Transfer Switch Combination K - Voltage Codes 9X,59X	35	HARNESS, WIRING - INTER CONNECTION - TRANSFER SWITCH COMBINATIONS H,L (Includes Parts Marked £)		
	338-1118	1	Transfer Switch Combination D - Voltage Codes 9X,59X		338-1226	1	Voltage Codes 3,53
9	332-1697	1	†Block, Terminal (14 place)		338-1227	1	Voltage Codes 4,5D,4X,54,55D,54
10	323-0900	1	†Receptacle, Twistlock	36	332-2206	2	£Block, Terminal (3 Place) - Transfer Switch Combinations H,L (Voltage Codes 3,4,5D,4X,53,54,55D,54X)
11	332-1698	1	Strip, Marker	37	332-1541	1	£Block, Terminal (6 Place) - Transfer Switch Combinations H,L (Voltage Codes 3,4,5D,4X,53,54,55D,54X)
12	406-0363	2	Pin, Hinge	38	RELAY, INTERPOSING		
13	508-0177	1	Washer, Nylon		307-1545	1	Voltage Codes 3,4,5D,53,54,55D
14	406-0370	1	Pin, Latch		307-1546	1	Voltage Codes 4X,54X
15	332-1356	2	Clamp, Loop	39	323-1129	1	Guard, Receptacle
16	CLAMP, LOOP			40	518-0402	1	Clip
	332-1024	2	Transfer Switch Combinations H,L				
	332-1414	6	Transfer Switch Combinations D,K				
17	CLAMP, LOOP						
	332-0050	2	Transfer Switch Combinations H,L				
	332-0050	1	Transfer Switch Combinations D,K				
18	301-3524	1	Plate, Striker - Transfer Switch Combinations - D,K				
19	508-0144	1	Grommet, Rubber - Transfer Switch Combinations H,L				
20	332-2203	1	Strip, Marker - Transfer Switch Combinations H,L				
21	332-2205	1	Strip, Marker - Transfer Switch Combinations H,L				
22	332-2204	1	Strip, Marker - Transfer Switch Combinations H,L				

* - Parts Included in 301-4323 Cabinet Door
† - Parts Included in Wiring Harness Assembly
£ - Parts Included in 338-1226 and 338-1227 Inter Connection Wiring Harness

CABINET ASSEMBLY (NON-AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,R,S



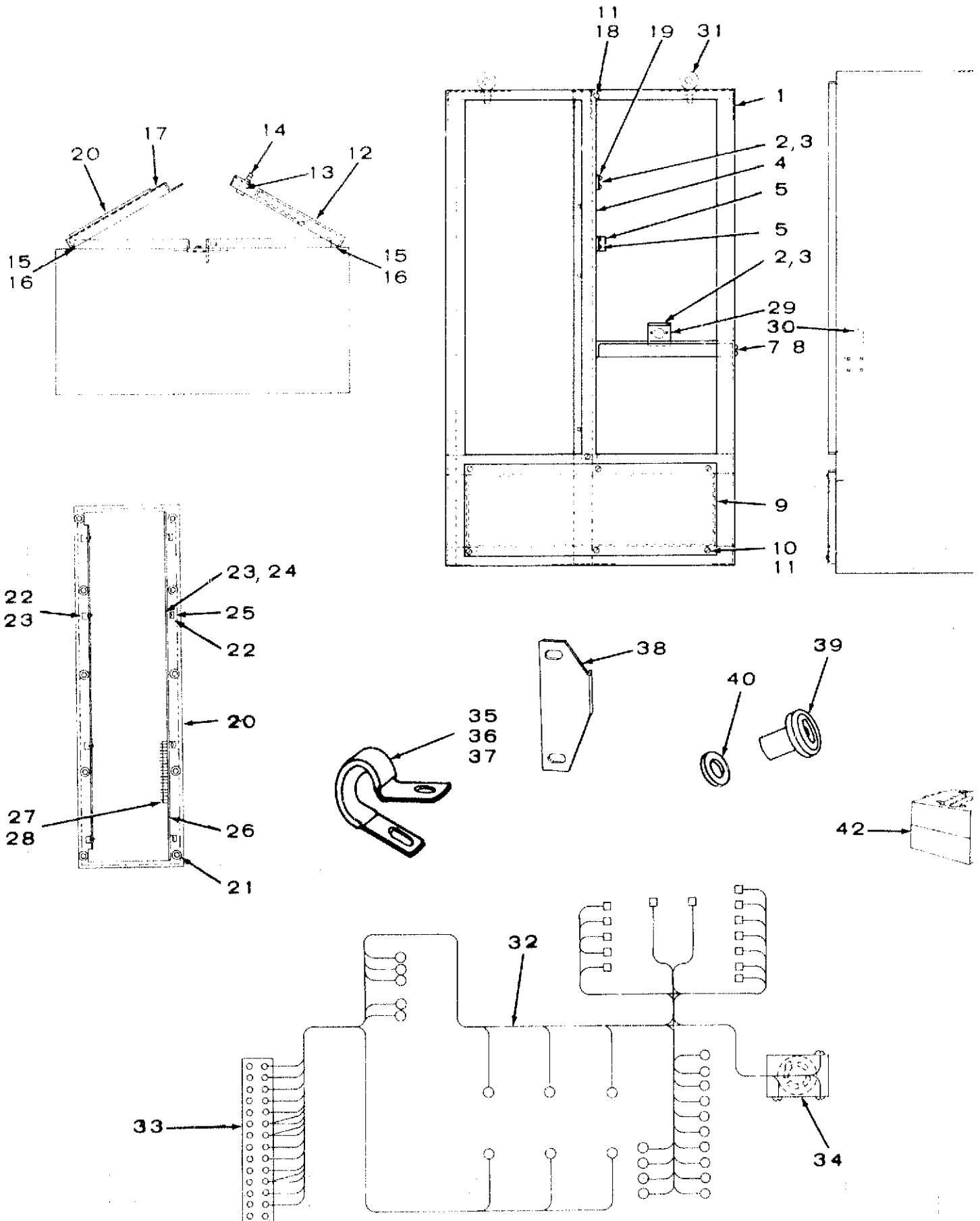
CABINET ASSEMBLY (NON-AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,R,S

OT ☐ - - / - - -

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	
1	301-4300	1	Box, Control - Transfer Switch Combinations D,R	16	332-0050	1	Clamp, Loop - Transfer Switch Combinations D,R	
2	301-4871	1	Door, Cabinet - Transfer Switch Combinations D,R (Includes Parts Marked *)	17	HARNESS, WIRING			
3	406-0362	1	*Lock, Panel - Transfer Switch Combinations D,R	338-1249	1	Transfer Switch Combinations D,R		
4	406-0364	2	*Spacer, Door Latch - Transfer Switch Combinations D,R	338-1250	1	Transfer Switch Combinations H,S		
5	813-0102	2	*Screw, Machine - Round Head (#10-32 x 5/8") - Transfer Switch Combinations D,R	338-1251	1	Transfer Switch Combination R		
6	861-0008	2	*Nut, Hex (#10-32) - Transfer Switch Combinations D,R	338-1252	1	Transfer Switch Combination S		
7	853-0008	2	*Washer, Lock - ET (#10) - Transfer Switch Combinations D,R	18	308-0481	1	Switch, Selector (Key)	
8	301-3524	1	Plate, Striker - Transfer Switch Combinations D,R	19	308-0480	1	Switch, Push Button	
9	301-4859	1	Panel, Meter - Transfer Switch Combinations D,R	20	PLATE, LEGEND - TRANSFER SWITCH COMBINATIONS H,			
10	301-4863	1	Panel, Meter - Transfer Switch Combinations H,S	308-0485	1	Load - Shed		
11	406-0363	2	Pin, Hinge - Transfer Switch Combinations D,R	308-0486	1	Normal - Off - Emergency		
12	406-0370	1	Pin, Latch - Transfer Switch Combinations D,R	21	LAMP, INDICATOR			
13	508-0177	2	Washer, Nylon - Transfer Switch Combinations D,R	322-0146	1	Normal		
14	332-1356	2	Clamp, Loop - Transfer Switch Combinations D,R	322-0147	1	Emergency		
15	332-1414	6	Clamp, Loop - Transfer Switch Combinations D,R	22	338-1258	1	Harness, Wiring - Lights	
				23	315-0374	1	Transformer Assembly - Step Down (Includes Parts Marked †)	
				24	301-3499	1	†Bracket, Transformer Mounting	
				25	315-0375	2	†Transformer, Step Down	
				26	332-1468	1	†Block, Terminal	
				27	332-1663	1	†Strip, Marker	
				28	815-0387	4	†Screw, Machine - Round Head (#6-32 x 1/4")	
				29	812-0066	2	†Screw, Machine - Round Head (#6-32 x 3/4")	
				30	332-1651	1	†Cover, Protection	
				31	508-0074	2	†Washer, Insulator	

* - Parts Included in 301-4871 Cabinet Door
† - Parts Included in Transformer Assembly

CABINET ASSEMBLY (AUTOMATIC) - 4 POLE - TRANSFER SWITCH COMBINATIONS D,K



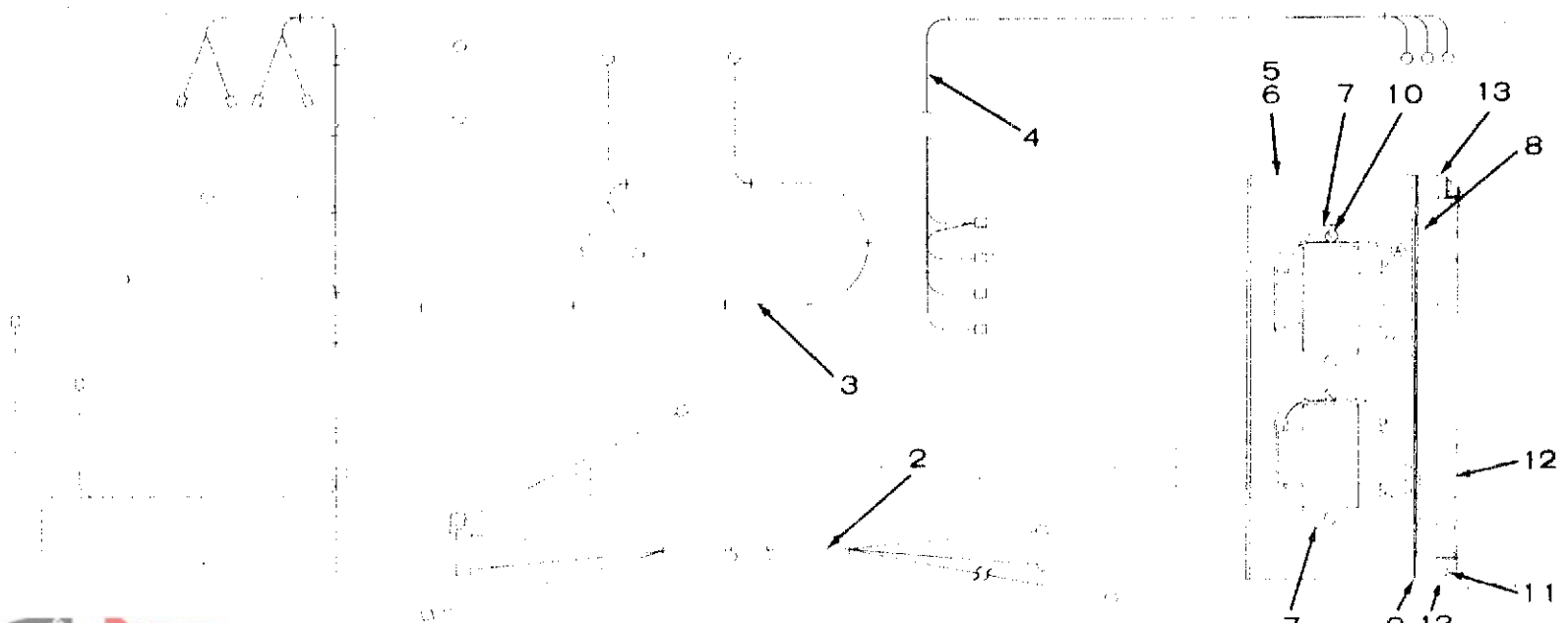
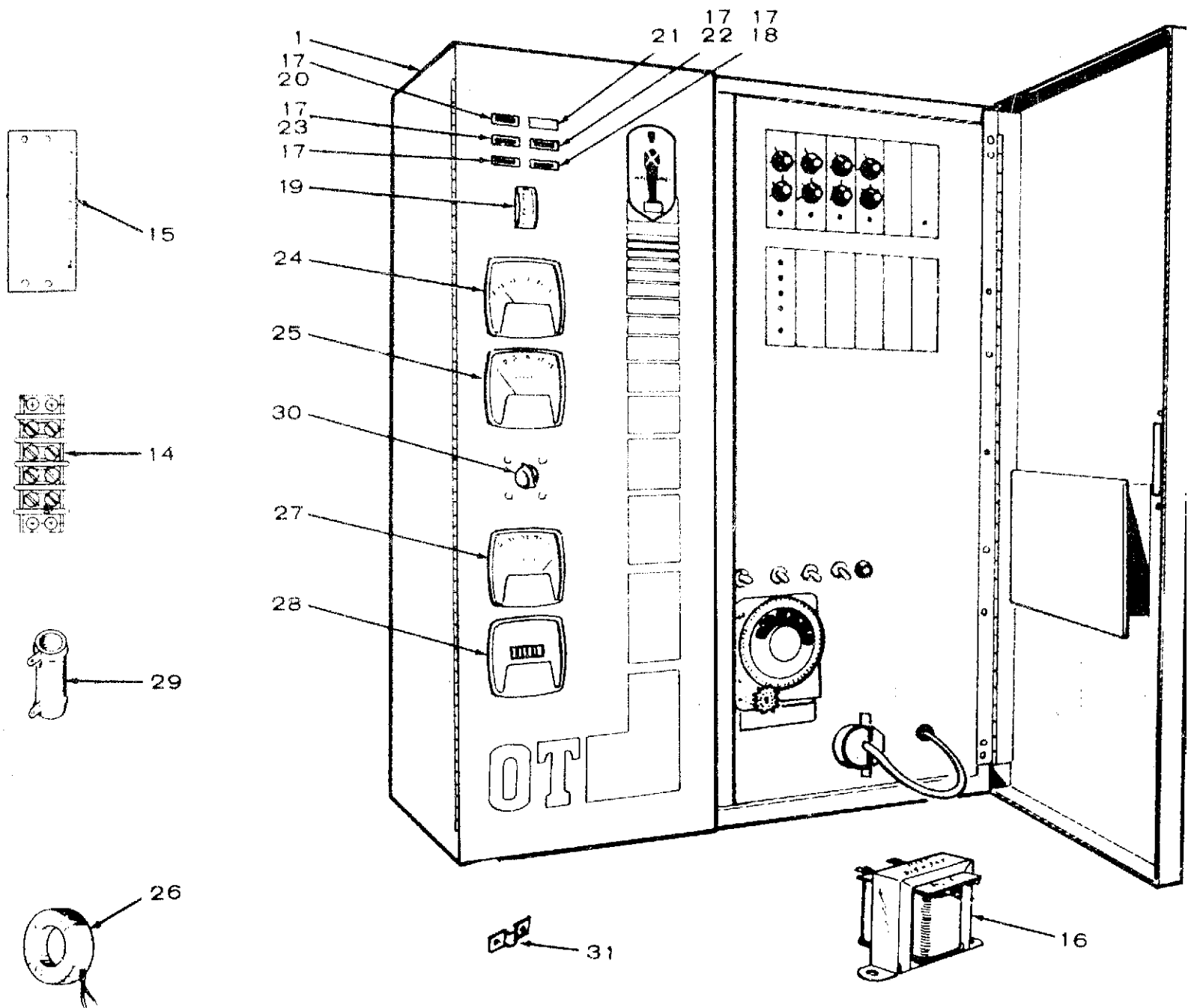
CABINET ASSEMBLY (AUTOMATIC) - 4 POLE - TRANSFER SWITCH COMBINATIONS D,K

OT ☐ ☐ - ☐ / ☐ ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-4510	1	Box, Control	23	856-0002	8	Washer, Lock - EIT (#8)
2	813-0096	6	Screw, Machine - Round Head (#10-32 x 1/4")	24	860-0008	2	Nut, Hex (#8-32)
3	853-0008	6	Washer, Lock - ET (#10)	25	150-0302	4	Spacer
4	301-4503	1	Support, Control Box Center	26	301-3893	1	Bracket, Terminal Block
5	406-0420	1	Strike, Catch	27	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")
6	301-4745	1	Bracket, Disconnect Plug	28	856-0001	2	Washer, Lock - EIT (#6)
7	813-0009	4	Screw, Machine - Round Head (#10-32 x 7/16")	29	323-1129	1	Guard, Receptacle
8	854-0010	4	Washer, Lock - IT (#10)	30	518-0402	2	Clip, Speed
9	301-4506	1	Panel, Front	31	403-0931	2	Eyebolt, Lifting
10	812-0150	4	Screw, Machine - Round Head (1/4-20 x 5/8")	32	338-1260	1	Harness, Wiring (Includes Parts Marked Δ)
11	854-0014	8	Washer, Lock - IT (1/4")	33	332-1697	1	ΔBlock, Terminal
12	301-5133	1	Door, Right Side (Includes Parts Marked *)	34	323-0900	1	ΔReceptacle, Twistlock
13	406-0418	2	*Bar, Locking - Door	35	332-1356	2	Clamp, Loop
14	406-0253	1	*Handle, Lock (With Latch) - Door	36	332-1414	6	Clamp, Loop
15	860-0008	12	Nut, Hex (#8-32)	37	332-0050	6	Clip, Tinnerman
16	853-0005	12	Washer, Lock - ET (#8)	38	301-3524	1	Plate, Striker
17	301-4499	1	Door, Left Side	39	406-0370	1	Pin, Latch
18	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")	40	508-0177	2	Washer, Nylon
19	301-4578	1	Bracket, Swinging Panel	41	406-0363	2	Pin, Hinge
20	301-3895	1	Plate, Meter Panel Mounting	42	RELAY, INTERPOSING		
21	870-0299	10	Nut, Hex with Washer (1/4-20)		307-1545	1	3, 4, 5D, 53, 54, 55D
22	812-0079	8	Screw, Machine - Round Head (#8-32 x 1/2")		307-1546	1	440/480 Volt 4X, 54X

* - Parts Included in 301-5133 Door (Right Side).
Δ - Parts Included in 338-1260 Wiring Harness.

METER-LAMP COMBINATION PANELS (1 THROUGH 18)



METER-LAMP COMBINATION PANELS (1 THROUGH 18)

OT ☐ - ☐ / ☐ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL, METER						
	301-4306	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
	301-4307	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
	301-4308	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
	301-4309	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
	301-4310	1	With Holes for 6 Lamps, DC Ammeter, AC Ammeter, 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
	301-4311	1	With Holes for 6 Lamps, DC Ammeter, AC Ammeter, Voltmeter, Frequency Meter and Running Time Meter - Panel Combinations 9,10,11,12	16	315-0377	1	Transformer, Step Down - Panel Combinations 9,10,11,12 - Voltage Codes 4X, 9X,54X,59X
2	HARNESS, WIRING - METERS			17	LENS AND BEZEL		
	338-0882	1	Panel Combinations 1,2,3,4		322-0141	1	Panel Combinations 4,8,12,16
		1	Panel Combinations 5,6,7,8		322-0141	2	Panel Combination 17
	338-0883	1	1 Phase Units		322-0141	3	Panel Combinations 2,3,6,7,10,11,14,15
	338-0885	1	3 Phase Units				
			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				
			Panel Combinations 13,14,15,16	20	322-0146	1	Lamp, Indicator - Normal - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-0883	1	1 Phase Units	21	322-0147	1	Lamp, Indicator - Emergency - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-0883	1	3 Phase Units - Voltage Codes 4,5D,4X,9X,54,55D,54X,59	22	LAMP, INDICATOR - LOW BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-1257	1	3 Phase Units - Voltage Codes 7,57		322-0114	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		322-0126	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	23	LAMP, INDICATOR - HIGH BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
5	315-0374	1	Transformer Assembly - Step Down (Includes Parts Marked *) - Panel Combinations 2,4,6,8,10,12,14,16,18		322-0115	1	Units with 12 Volt Starting Circuit (D and E)
6	301-3499	1	*Bracket, Transformer Mounting - Panel Combinations 2,4,6,8,10,12,14,16,18		322-0127	1	Units with 24 Volt Starting Circuit (C)
7	315-0375	2	*Transformer, Step Down - Panel Combinations 2,4,6,8,10,12,14,16,18	24	VOLTMETER (AC) - PANEL COMBINATIONS 5,6,7,8,9,10,11,12		
8	332-1468	1	*Block, Terminal - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0421	1	Voltage Codes 3,4,5D,53,54,55D
9	332-1663	1	*Strip, Marker - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0422	1	Voltage Codes 4X,7,54X,57
					302-0423	1	Voltage Codes 9X,59X
				25	AMMETER (AC) - PANEL COMBINATIONS 9,10,11,12		
					302-0413	2	Voltage Codes 3,53
					302-0413	1	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				26	TRANSFORMER, CURRENT - PANEL COMBINATIONS 9,10,11,12		
					302-0107	2	Voltage Codes 3,53
					302-0107	3	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				27	METER, FREQUENCY - PANEL COMBINATIONS 9,10,11,12		
							50 Hertz
					302-0895	1	Voltage Codes 53,55D,57
					302-0894	1	Voltage Code 54
					302-0893	1	Voltage Codes 54X,59X
							60 Hertz
					302-0811	1	Voltage Codes 3,5D,7

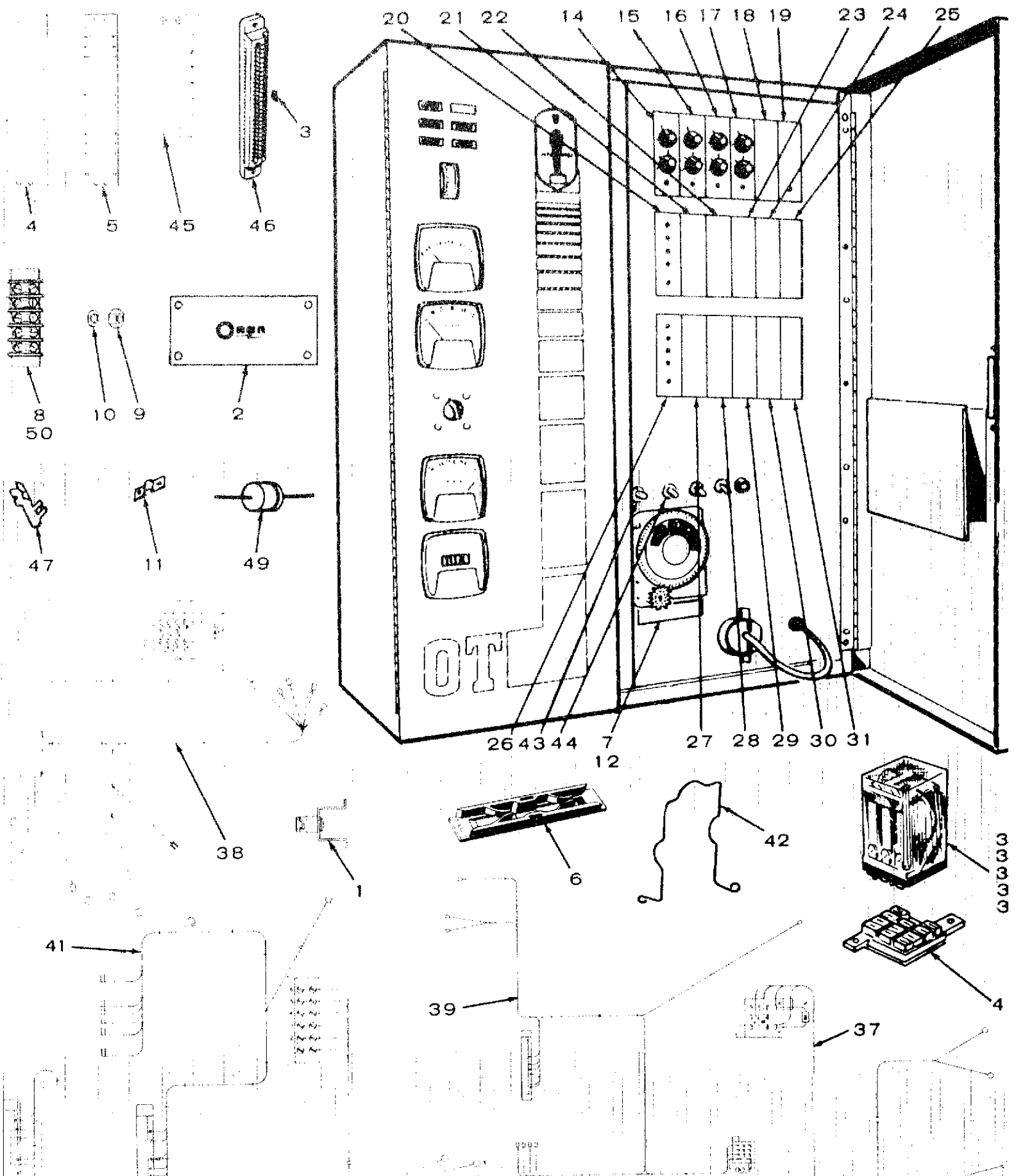
METER-LAMP COMBINATION PANELS (1 THROUGH 18)

OT _____ - ☐ / ☐ _____

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

* - Parts included in 315-0374 Transformer Assembly.

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



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

OT ☐ ☐ ☐ - ☐ / ☐ ☐ ☐

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, 14,21,22,23,24 (See Separate Groups for Components)		
	332-1276	14	Spec A		300-0793	1	Units with 12 Volt Starting Circuit (D & E)
	332-2114	14	Begin Spec B		300-0794	1	Units with 24 Volt Starting Circuit (C)
4	332-1469	1	Strip, Marker (1 through 12)				
5	332-1699	1	Strip, Marker (H, Remote, B+, Grd, 1 through 11 and 53)				
6	GUIDE, PRINTED CIRCUIT BOARD - ACCESSORY GROUPS 14,15,24,25						
	323-0814	12	Spec A				
	323-1084	12	Begin Spec B				
7	301-3487	1	Plate, Cover - Exerciser clock opening in panel - Accessory Groups 10,11,15, 20,21,25				
8	332-0604	1	Block, Terminal (5 Place) - Accessory Groups 10,11,15, 20,21,25				

MODULAR CONTROL ACCESSORY PANEL

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

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

MODULAR CONTROL ACCESSORY PANEL

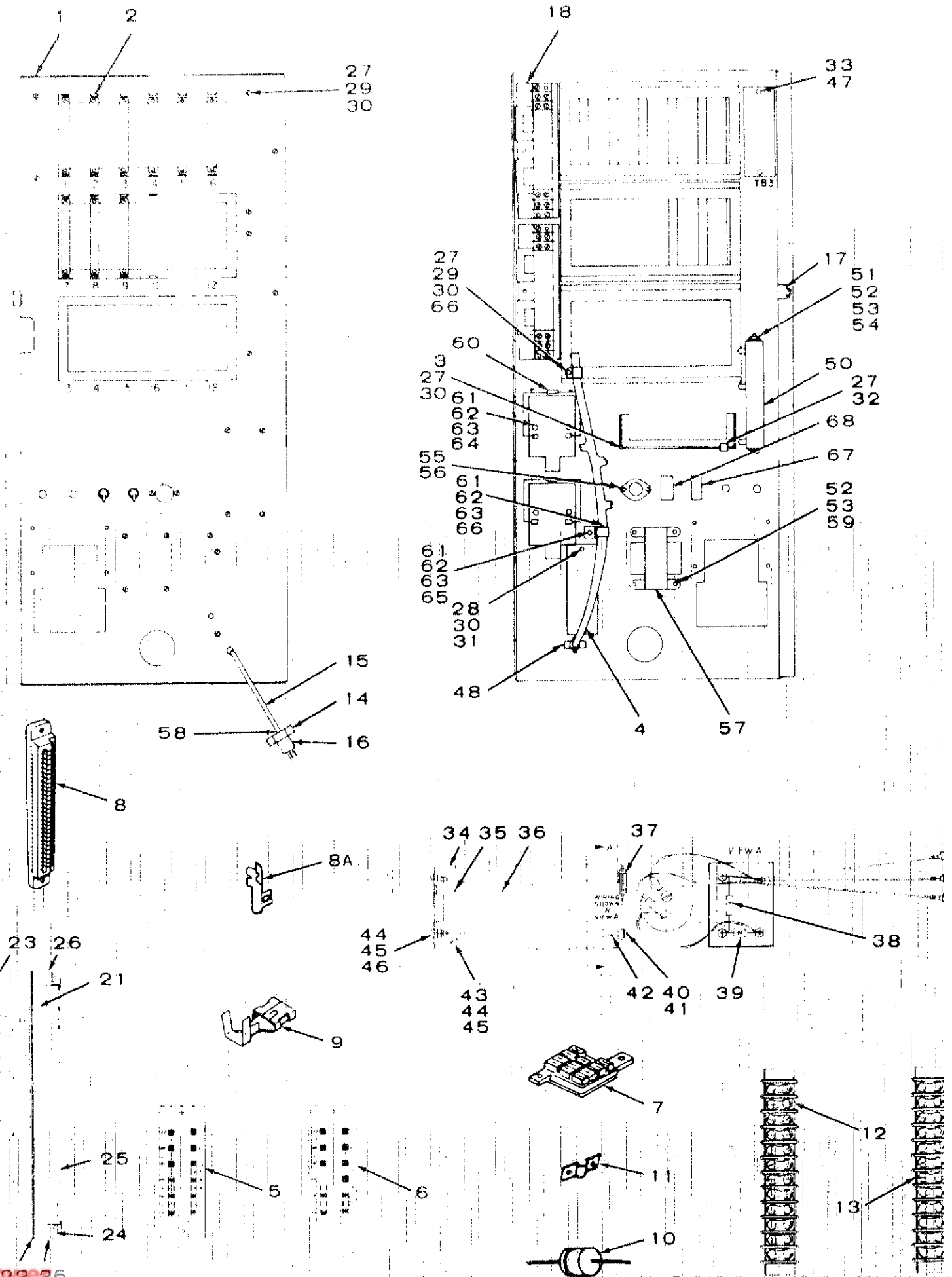
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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

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

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



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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY SWINGING - COMPLETE			9	332-1280	12	*Δ†£□#□■ 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				
	300-1396	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				Redistribution or publication of this document by any means, is strictly prohibited.
	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

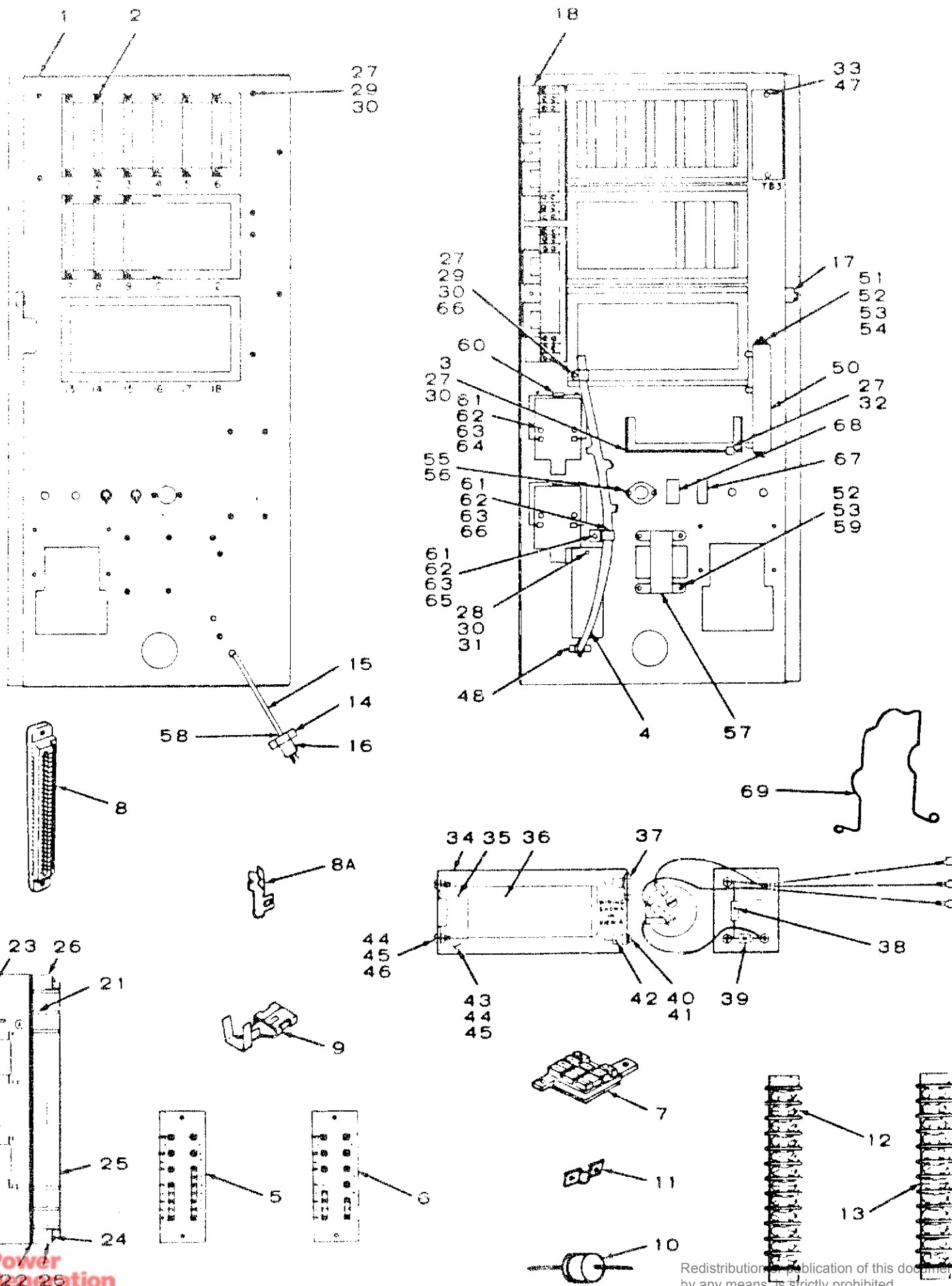
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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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 Accessory Groups 11,12,13,14,15	48	332-1969	1	Clamp, Cable
	812-0061	12	Units with Voltage Codes 3,53	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Groups 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 Head (#10-32 x 6-1/2") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	812-0061	9	Accessory Group 20	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12,1 14,15,21,22,23,24,25
	812-0061	11	Accessory Groups 21,22,23, 24,25	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	54	304-0006	2	Washer, Centering - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	860-0005	10	Units with Voltage Codes 3,53	56	FUSE 321-0180	1	Accessory Groups 11,12,13 14,15 (2 Ampere)
	860-0005	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X Accessory Groups 11,12,13,14,15		321-0110	1	Accessory Groups 21,22,23, 24,25 (1 Ampere)
	860-0005	12	Units with Voltage Codes 3,53	57	315-0379	1	Transformer, Battery Charger - Accessory Groups 11,12,13, 14,15,21,22,23,24,25
	860-0005	15	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X, 57,59X	58	503-0721	1	Bushing, Rubber - Accessory Groups 11,12,13,14,15
	860-0005	11	Accessory Group 20	59	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	860-0005	13	Accessory Groups 21,22,23, 24,25	60	357-0029	2	Diode - Accessory Groups 20,21,22,23,24,25
30	WASHER, LOCK - EXTERNAL TOOTH (#6)		Accessory Group 10	61	812-0082	5	Screw, Machine - Round Head (#8-32 x 3/4") - Accessory Groups 20,21,22,23,24,25
	853-0003	10	Units with Voltage Codes 3,53	62	860-0008	5	Nut, Hex (#8-32) - 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 Accessory Groups 11,12,13,14,15	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Groups 20,21,22,23,24,25
	853-0003	12	Units with Voltage Codes 3,53	64	307-1537	2	Relay, Power - 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	65	301-4235	1	Bracket, Harness - Accessory Groups 20,21,22,23,24,25
	853-0003	11	Accessory Group 20	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,25
	853-0003	13	Accessory Groups 21,22,23,24,25	67	308-0321	1	Switch, Test Transfer
31	332-1485	2	Spacer, Terminal Board	68	308-0322	1	Switch, Selector
32	332-0050	1	Clip, Wire				
33	300-1440	1	Control, Start Suppressions (Includes Parts Marked ***)				
34	301-4316	1	***Bracket, Starter Suppression				
35	356-0070	1	***Clamp, Capacitor Mounting				
36	356-0069	1	***Capacitor, Electrolytic				
37	508-0005	1	***Grommet, Rubber				
38	352-0159	1	***Resistor (.33-Ohm, 3 Watt)				
39	357-0028	1	***Diode				
40	812-0026	3	***Screw, Machine - Round Head (#4-40 x 3/16")				
41	850-0011	3	***Washer, Lock - Spring (#4)				
42	332-1998	3	***Terminal, Stud - Tapped				
43	812-0063	1	***Screw, Machine - Round Head (#6-32 x 1/2")				
44	853-0003	3	***Washer, Lock - External Tooth (#6)				
45	860-0006	3	***Nut, Hex - Machine (#6-32)				
46	812-0061	2	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	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.
 E - Parts Included in 338-0776 Harness Assembly.
 □ - Parts Included in 338-0777 Harness Assembly.
 * - Parts Included in 338-1034 Harness Assembly.
 ⊗ - Parts Included in 338-1045 Harness Assembly.
 ⊗ - Parts Included in 338-1043 Harness Assembly.
 ** - Parts Included in 315-0374 Transformer Assembly
 *** - Parts Included in 300-1440 Start Suppression Control

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	HARNES, 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	322-1487	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				
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				

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

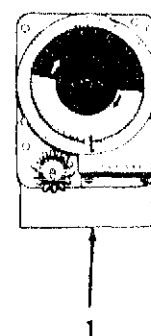
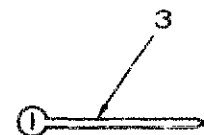
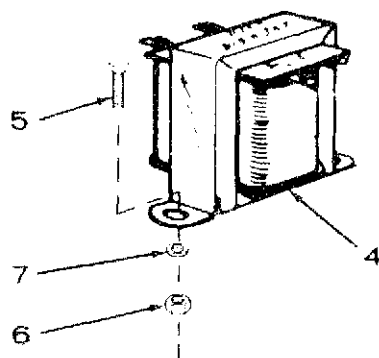
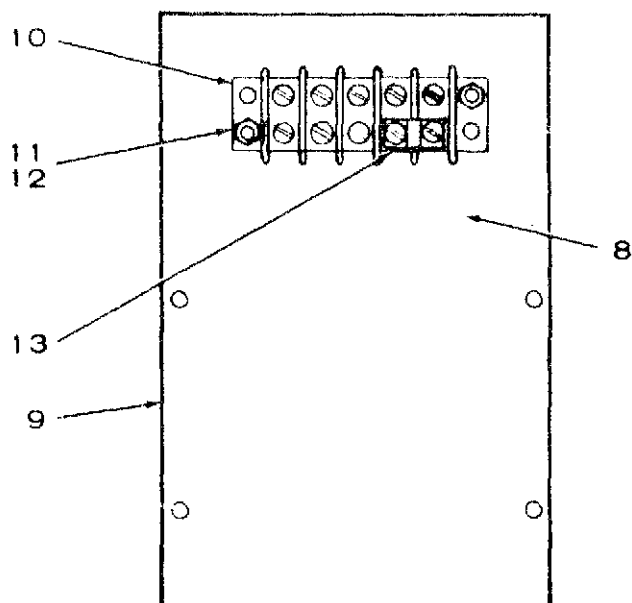
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Accessory Group 10				
	812-0061	22	Units with Voltage Codes 3,53	48	332-1969	1	Clamp, Cable
	812-0061	28	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	812-0061	26	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	51	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2") - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	812-0061	33	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	812-0061	29	Accessory Group 20	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	812-0061	31	Accessory Groups 21,22,23,24,25				
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	54	304-0006	2	Washer, Centering - Accessory Groups 11,12,13,14,15,21,22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	860-0006	24	Units with Voltage Codes 3,53	56	FUSE 321-0180	1	Accessory Groups 11,12,13,14,15 (2 Ampere)
	860-0006	31	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		321-C110	1	Accessory Groups 21,22,23,24,25 (1 Ampere)
	860-0006	28	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	57	315-0379	1	Transformer, Battery Charger - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	860-0006	35	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	58	503-0721	1	Bushing, Rubber - Accessory Groups 11,12,13,14,15
	860-0006	31	Accessory Group 20	59	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16") - Accessory Groups 11,12,13,14,15,21,22,23,24,25
	860-0006	33	Accessory Groups 21,22,23,24,25	60	357-0029	2	Diode - Accessory Groups 20,21,22,23,24,25
30	WASHER, LOCK - EXTERNAL TOOTH (#6)		Accessory Group 10	61	812-0082	5	Screw, Machine - Round Head (#8-32 x 3/4") - Accessory Groups 20,21,22,23,24,25
	853-0003	24	Units with Voltage Codes 3,53	62	860-0008	5	Nut, Hex (#8-32) - Accessory Groups 20,21,22,23,24,25
	853-0003	31	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Groups 20,21,22,23,24,25
	853-0003	28	Accessory Groups 11,12,13,14,15 Units with Voltage Codes 3,53	64	307-1537	2	Relay, Power - Accessory Groups 20,21,22,23,24,25
	853-0003	35	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	65	301-4235	1	Bracket, Harness - Accessory Groups 20,21,22,23,24,25
	853-0003	31	Accessory Group 20	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,25
	853-0003	33	Accessory Groups 21,22,23,24,25	67	308-0321	1	Switch, Test Transfer
31	332-1485	2	Spacer, Terminal Board	68	308-0322	1	Switch, Selector
32	332-0050	1	Clip, Wire	69	307-1157	1	Spring, Relay Hold-down
33	300-1627	1	Control, Start Suppression (Includes Parts Marked ***)				
34	301-4316	1	***Bracket, Starter Suppression				
35	356-0070	1	***Clamp, Capacitor Mounting				
36	356-0069	1	***Capacitor, Electrolytic				
37	508-0005	1	***Grommet, Rubber				
38	352-0159	1	***Resistor (.33-Ohm, 3 Watt)				
39	357-0028	1	***Diode				
40	812-0026	3	***Screw, Machine - Round Head (#4-40 x 3/16")				
41	850-0011	3	***Washer, Lock - Spring (#4)				
42	332-1998	3	***Terminal, Stud - Tapped				
43	812-0063	1	***Screw, Machine - Round Head (#6-32 x 1/2")				
44	853-0003	3	***Washer, Lock - External Tooth (#6)				
45	860-0006	3	***Nut, Hex - Machine (#6-32)				
46	812-0061	2	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	308-0008	4	Screw, Tapping - Round Head				

* - Parts Included in 338-1157 Harness Assembly
 Δ - Parts Included in 338-1156 Harness Assembly
 † - Parts Included in 338-1195 Harness Assembly
 £ - 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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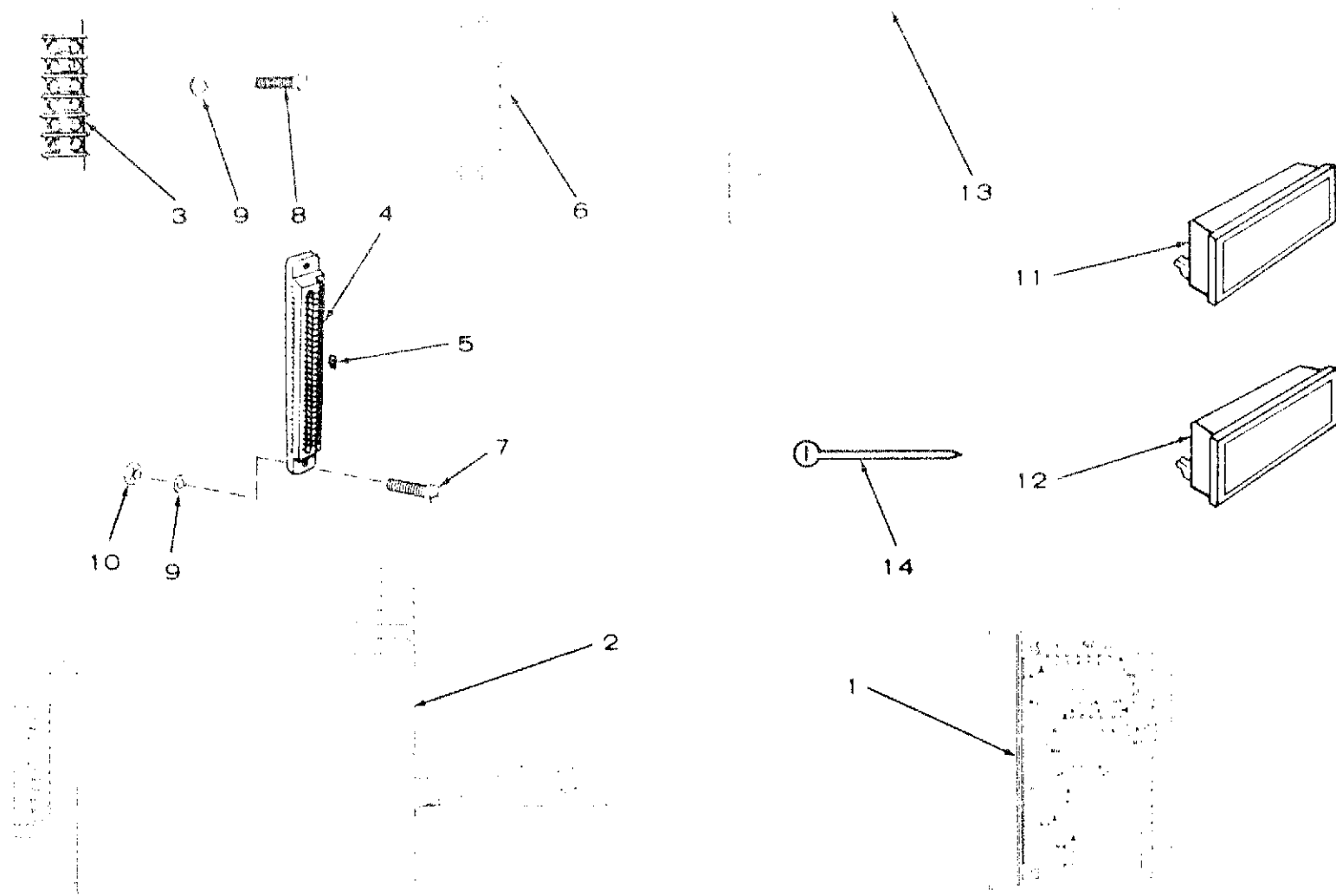
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, EXERCISER CLOCK (COMPLETE) - 60 Hertz		
	307-1652	1	Accessory Groups 10,20, Voltage Codes 3,4,5D,7
	307-1648	1	Accessory Groups 10,20, Voltage Codes 4X,9X (Includes Leads)
	307-1650	1	Accessory Groups 11,15,21, 25, Voltage Codes 3,4,4X, 5D,7,9X
1	SWITCH, 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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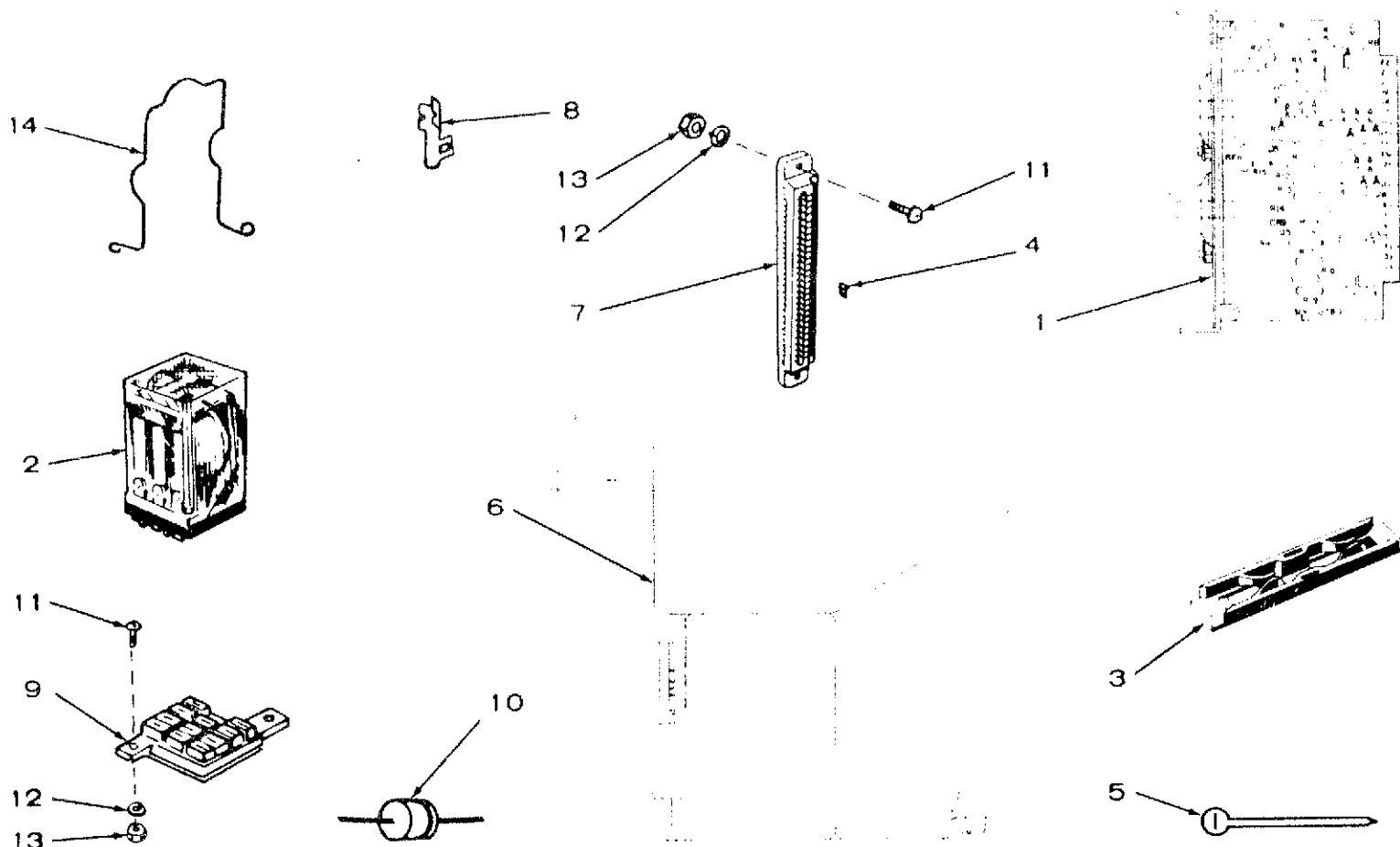


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, BATTERY VOLTAGE (Complete)		
	300-1019	1	12 Volt
	300-1022	1	24 Volt
1	SENSOR, BATTERY VOLTAGE (See Separate Group for Components)		
	300-0796	1	12 Volt
	300-0797	1	24 Volt
2	338-0658	1	Harness, Wiring (Includes Terminal Block and Printed 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, Lamps
14	332-0942	1	Tie, Cable

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

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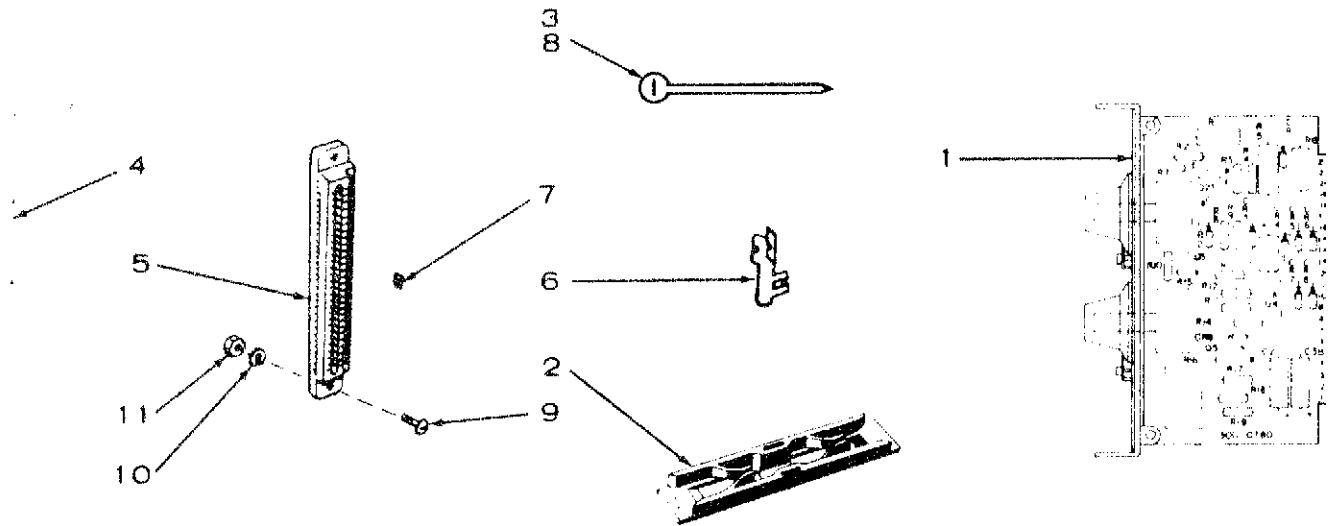
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR KIT, OVER VOLTAGE (Complete)		
	300-1020	1	1 Phase Units
	300-1021	1	3 Phase Units
1	SENSOR, VOLTAGE		
	300-0780	1	1 Phase Units
	300-0780	3	3 Phase Units
2	307-1058	1	Relay
3	GUIDE, PRINTED CIRCUIT BOARD		
			Spec A
	323-0814	2	1 Phase Units
	323-0814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

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

* - Parts Included in Wiring Harness Assembly

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

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

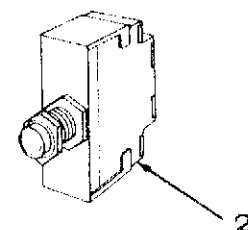
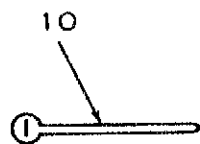
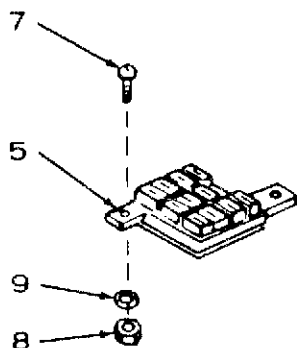
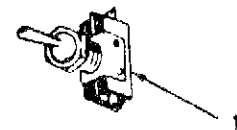
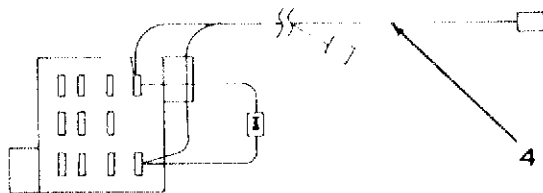
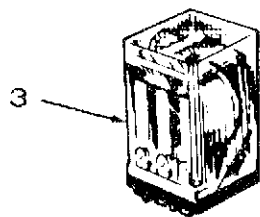
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	332-2107	1	†*Housing, Printed Circuit Board Terminal
6	TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	7	†Spec A
	332-1269	6	†Spec A
	332-2108	13	*Begin Spec B
7	332-2114	1	†*Plug, Keying
8	332-0942	12	†*Tie, Cable
9	812-0061	2	Screw, Machine - Round Head (#6-32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

† - Parts Included in 338-1268 Wiring Harness.

* - Parts Included in 338-0770 Wiring Harness.

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

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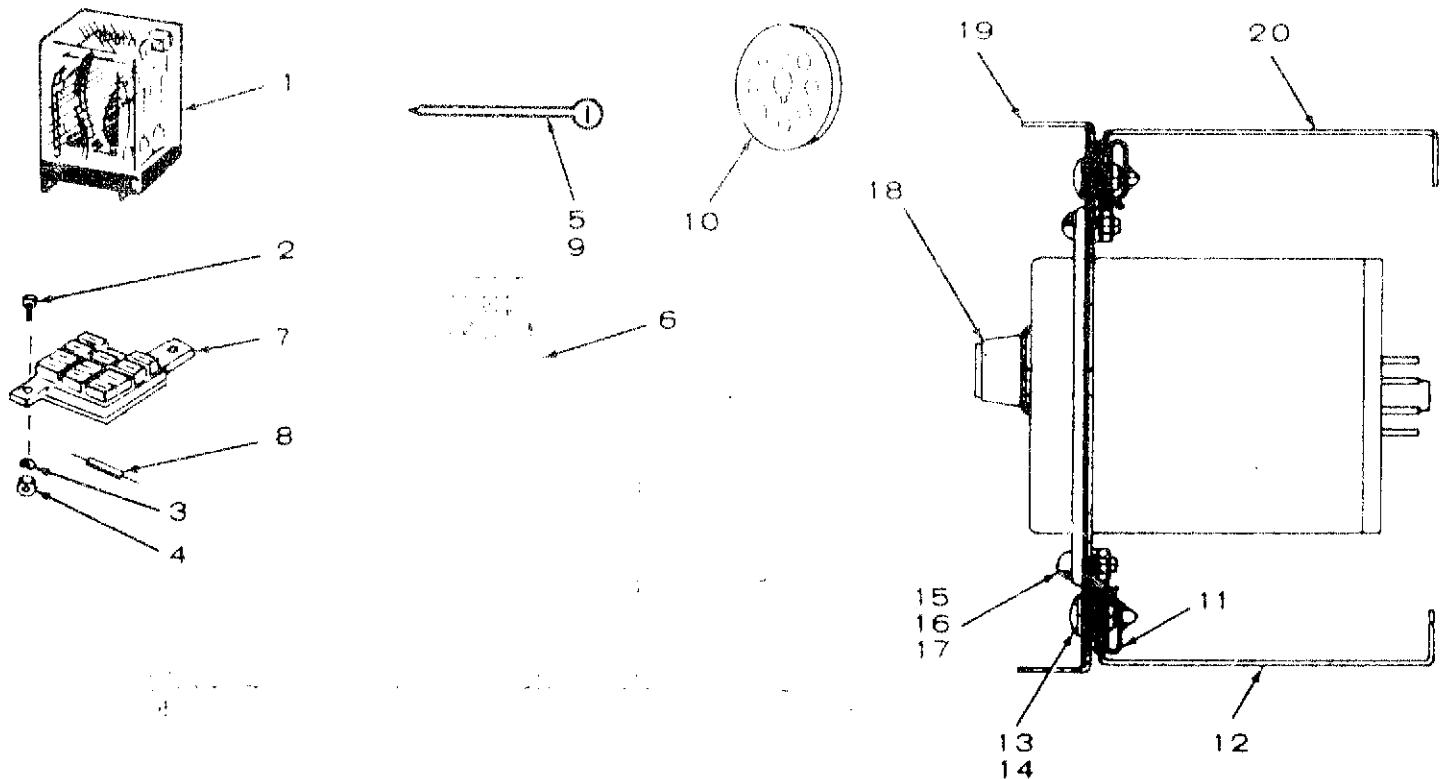


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	308-0343	1	Switch Package - Retransfer (Complete)
1	308-0321	1	Switch, Manual and Automatic
2	308-0175	1	Switch, Retransfer
3	307-1058	1	Relay
4	338-1061	1	Harness, Wiring (Includes Diode and Socket)
5	323-0765	1	Socket, Relay (Part of

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

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

OT A



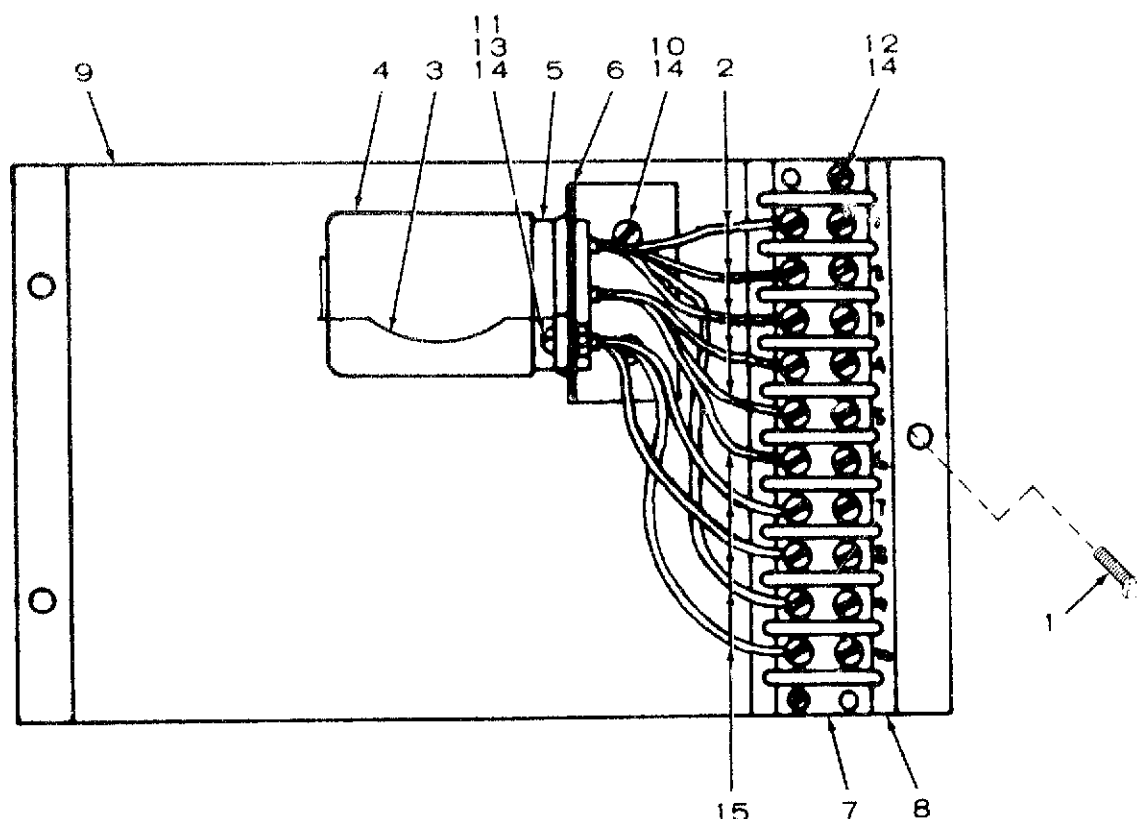
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	307-1285	1	Time Delay Package - Retransfer - Wire In - Optional (Includes Parts Marked *)
	307-1199	1	*Time Delay Package - Retransfer - Plug In (Includes Parts Marked †)
1	307-1058	1	*Relay
2	812-0061	6	*Screw, Machine - Round Head (#6-32 x 3/8")
3	853-0003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

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

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

AUXILIARY STARTING CONTACTS RELAY ASSEMBLY - OPTIONAL WIRE IN

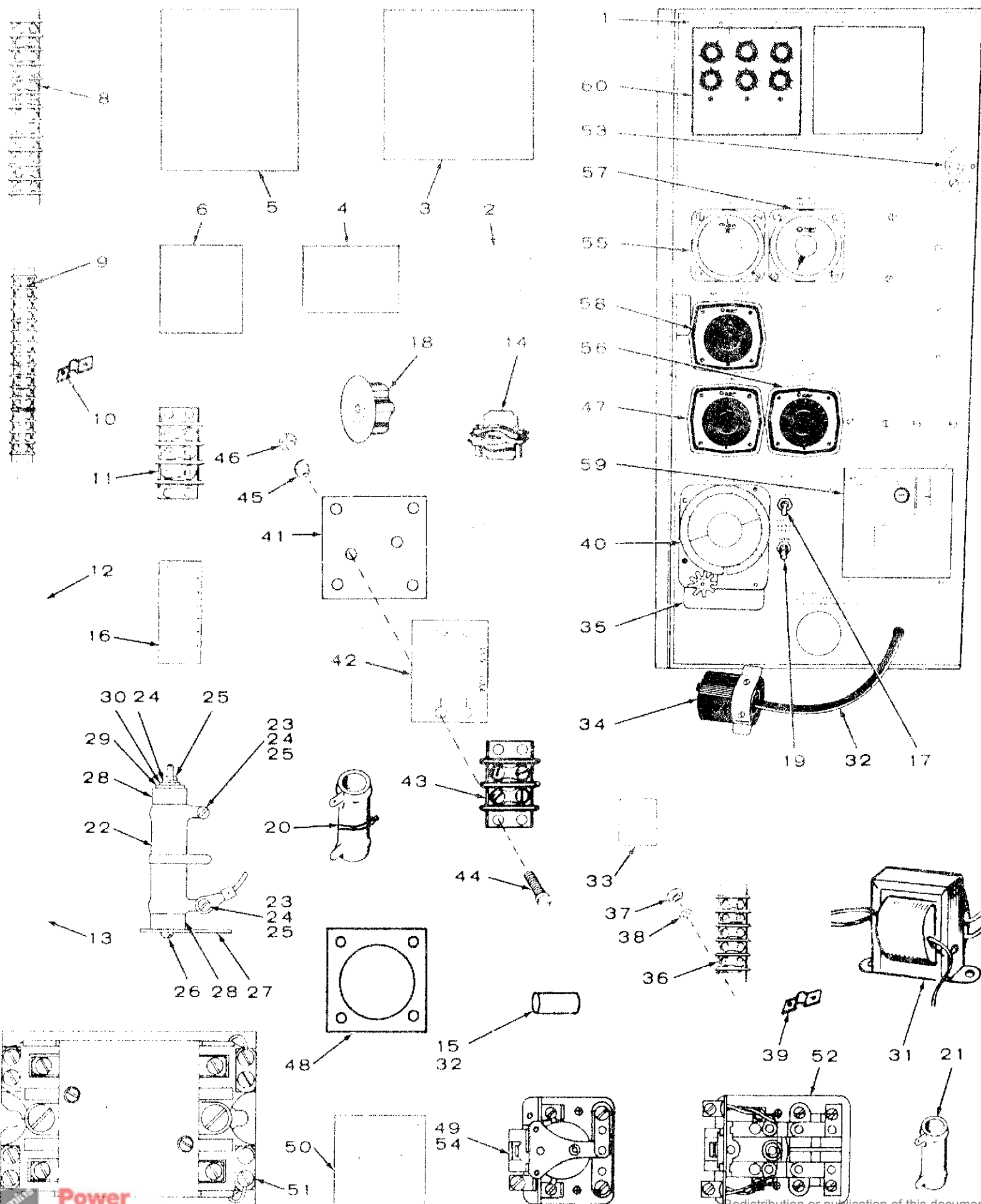
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	RELAY PACKAGE, AUXILIARY STARTING CONTACTS		
	307-1320	1	For Units with 12 Volt Starting Circuit (D & E)
	307-1321	1	For Units with 24 Volt Starting Circuit (C)
1	815-0387	3	Screw, Machine - Pan Head Cross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

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

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



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

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

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

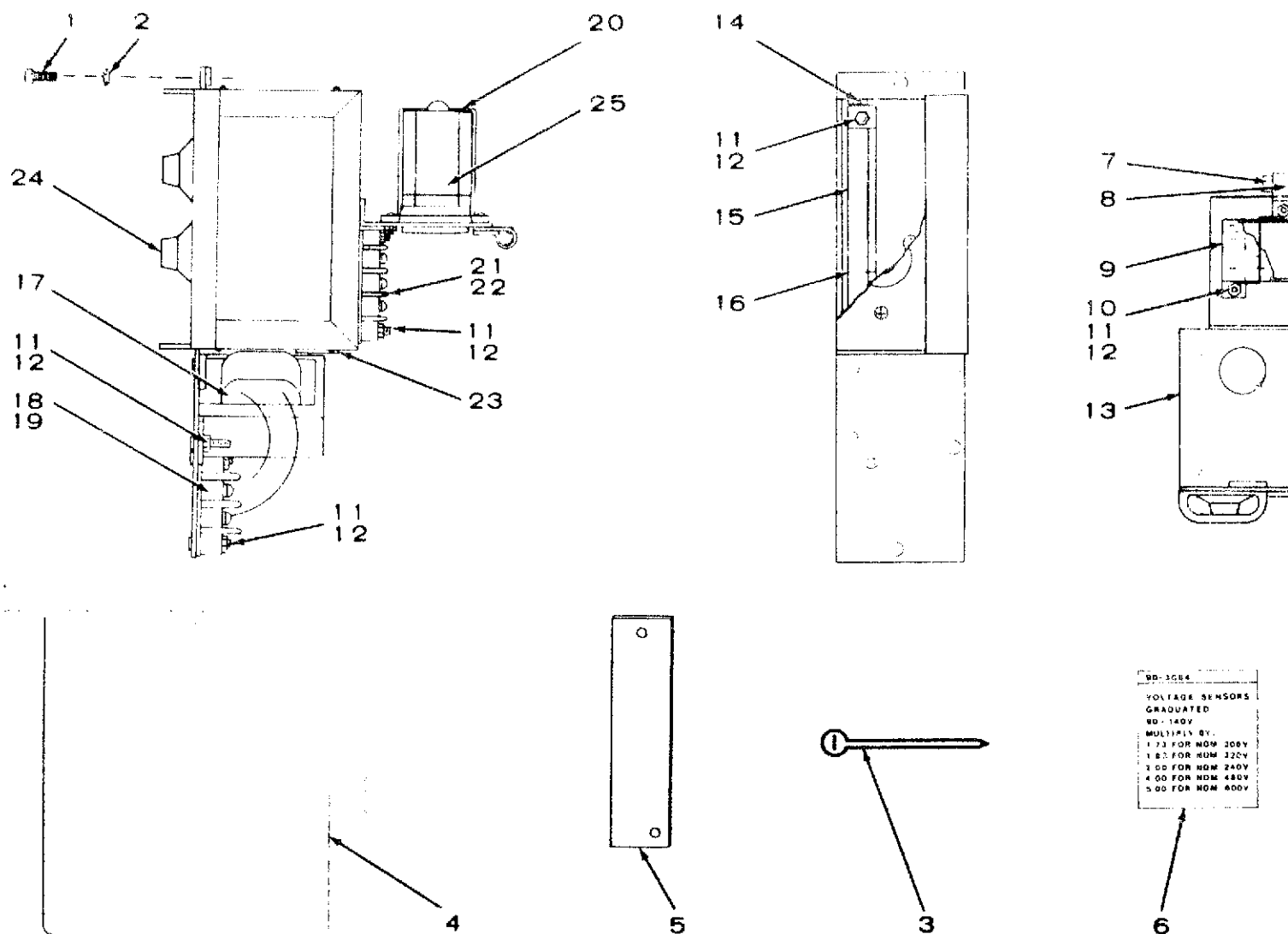
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-1367	1	Over or Under Voltage (208-240 Volt, 1 Phase)		300-1376	1	Over Voltage (480 Volt, 3 Phase)
	300-1368	1	Over and Under Voltage (208-240 Volt, 1 Phase)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

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

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

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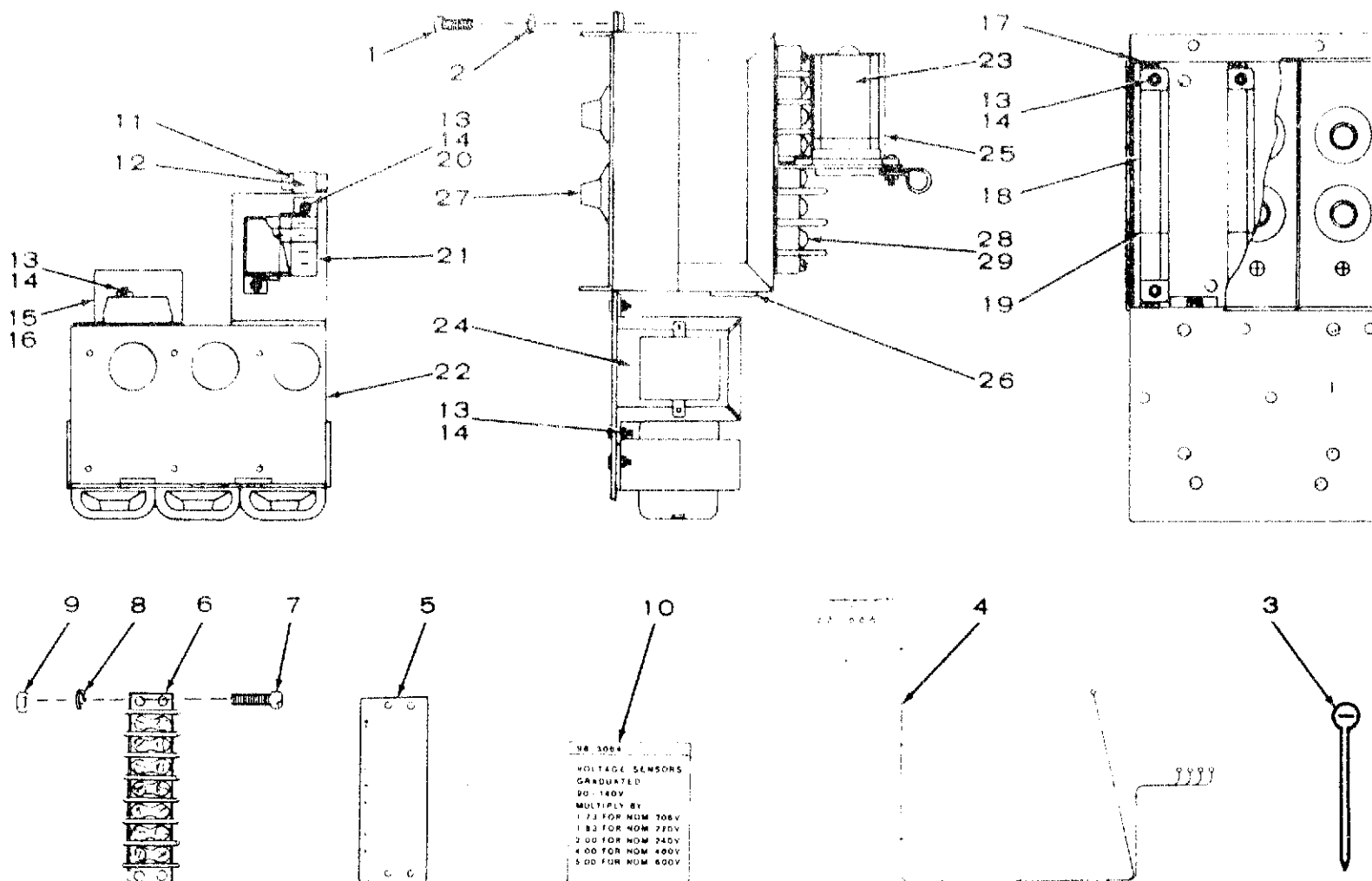
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)			
	300-1365	1	Over or Under (1)
	300-1366	1	Over and Under (1)
	300-1367	1	Over or Under (3)
	300-1368	1	Over and Under (3)
1	812-0061	3	Screw, Machine - Round Head (#6-32 x 3/8")
2	853-0003	3	Washer, 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	98-3004	1	Decal, Voltage Sensors Graduated Voltage
7	356-0067	1	Capacitator 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)

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, 3 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

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

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

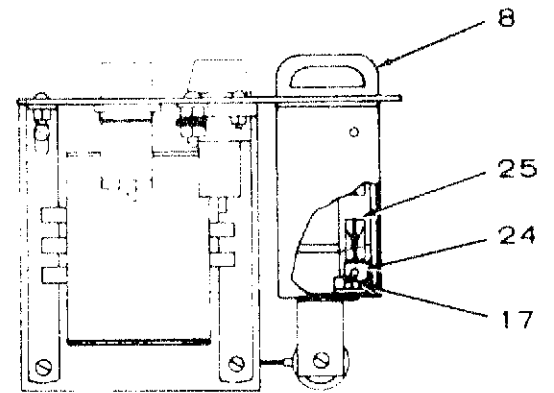
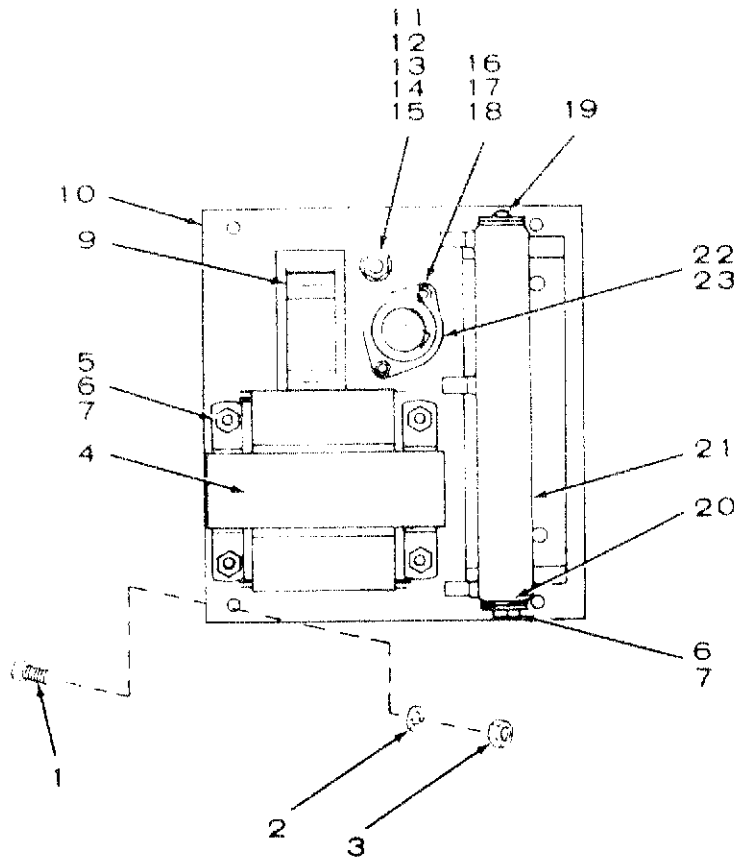
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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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

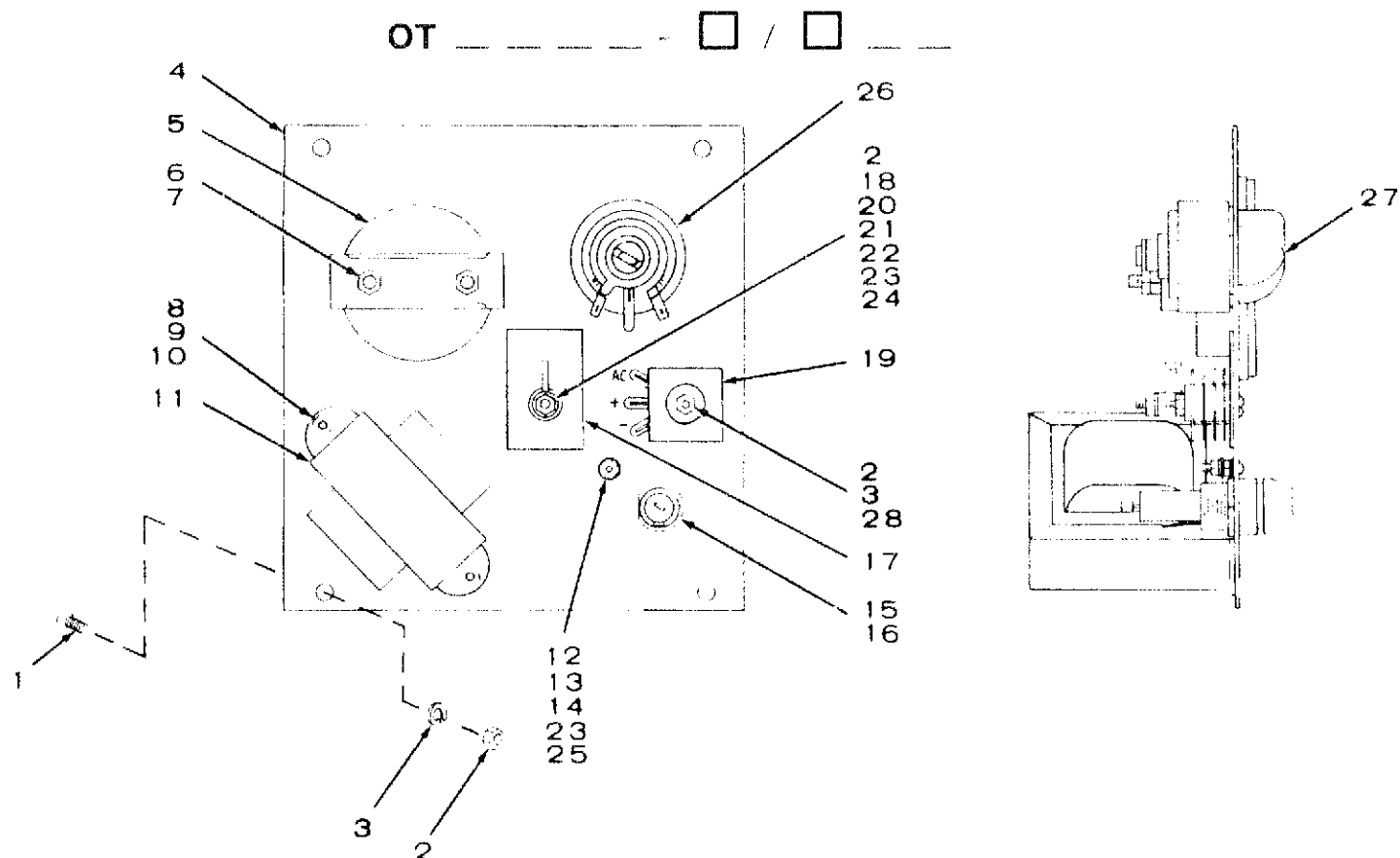
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CHARGER PACKAGE, BATTERY (2 Ampere) - OPTIONAL WIRE IN		
	305-0568	1	3,4,5D AC Input, 12 Volt DC Output
	305-0570	1	3,4,5D AC Input, 24 Volt DC Output
	305-0569	1	4X, 9X AC Input, 12 Volt DC Output
	305-0571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

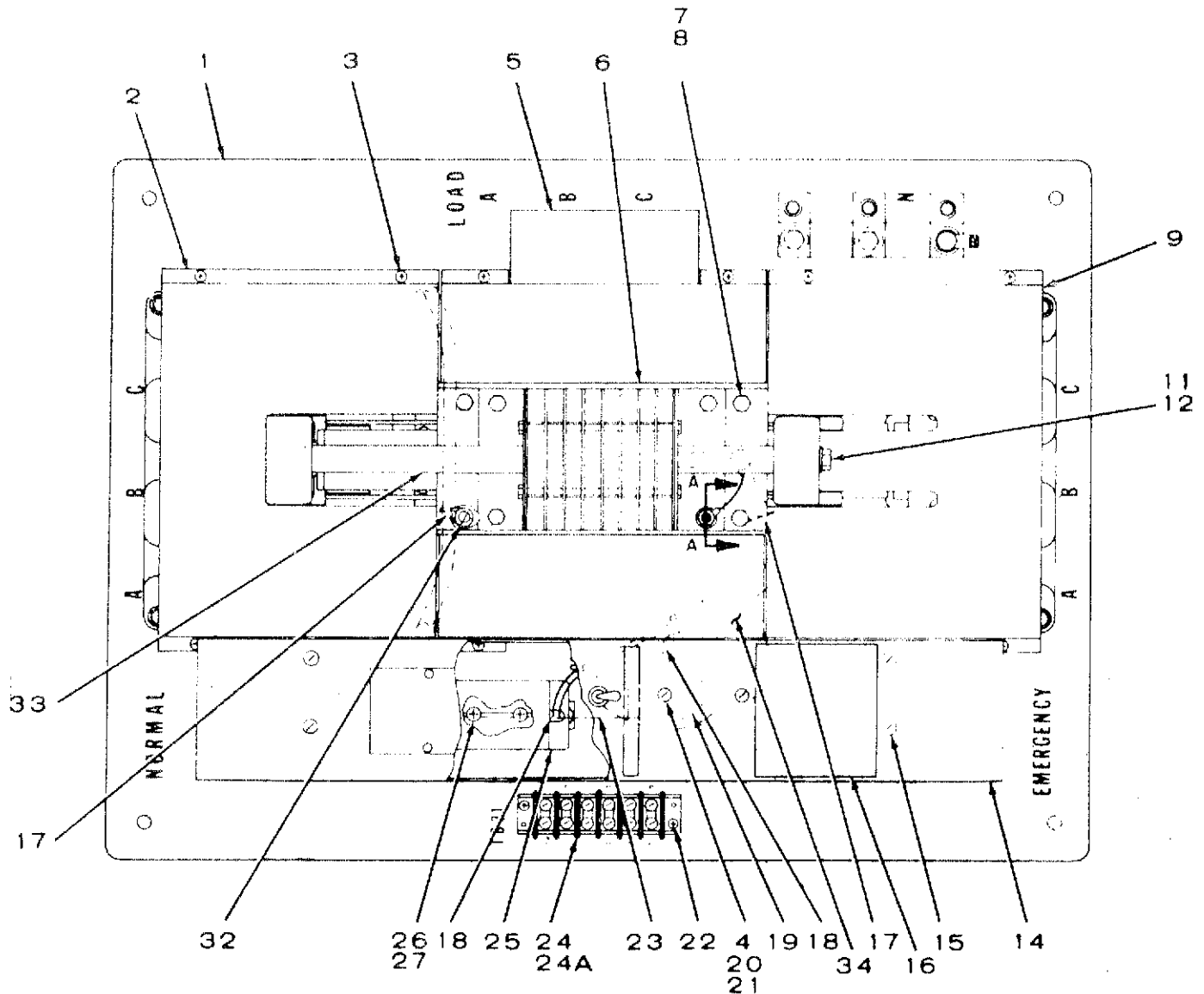
BATTERY CHARGER (300 MILLIAMPERE) PACKAGE (OPTIONAL WIRE IN) - ACCESSORY GROUPS 51,52,53,54,55



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)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (COMPLETE)			306-1902	1	240 Volt, 50 Hertz	
	2 Pole			306-1903	1	347 Volt, 50/60 Hertz	
	Specs A and B			306-1904	1	440/480 Volt, 50/60 Hertz	
	Standard					3 Pole	
306-1012	1	110/120 Volt, 50/60 Hertz				Specs A and B	
306-1014	1	208/220/240 Volt, 50/60 Hertz				Standard	
306-1016	1	347 Volt, 50/60 Hertz		306-0988	1	110/120 Volt, 50/60 Hertz	
306-1018	1	440/480 Volt, 50/60 Hertz		306-0990	1	208/220/240 Volt, 50/60 Hertz	
		Rear Connected				Hertz	
306-1024	1	110/120 Volt, 50/60 Hertz		306-0992	1	347 Volt, 50/60 Hertz	
306-1026	1	208/220/240 Volt, 50/60 Hertz		306-0994	1	440/480 Volt, 50/60 Hertz	
		Hertz				Rear Connected	
306-1028	1	347 Volt, 50/60 Hertz		306-1000	1	110/120 Volt, 50/60 Hertz	
306-1030	1	440/480 Volt, 50/60 Hertz		306-1002	1	208/220/240 Volt, 50/60 Hertz	
		Begin Spec C				Hertz	
		Standard		306-1004	1	347 Volt, 50/60 Hertz	
306-1895	1	110/120 Volt, 50/60 Hertz		306-1006	1	440/480 Volt, 50/60 Hertz	
306-1896	1	208/220 Volt, 50/60 Hertz				Begin Spec C	
306-1896	1	240 Volt, 60 Hertz				Standard	
306-1897	1	240 Volt, 50 Hertz		306-1885	1	110/120 Volt, 50/60 Hertz	
306-1898	1	347 Volt, 50/60 Hertz		306-1886	1	208/220 Volt, 50/60 Hertz	
306-1899	1	440/480 Volt, 50/60 Hertz		306-1886	1	240 Volt, 60 Hertz	
		Rear Connected		306-1887	1	240 Volt, 50 Hertz	
306-1900	1	110/120 Volt, 50/60 Hertz		306-1888	1	347 Volt, 50/60 Hertz	
306-1901	1	208/220 Volt, 50/60 Hertz		306-1889	1	440/480 Volt, 50/60 Hertz	

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)

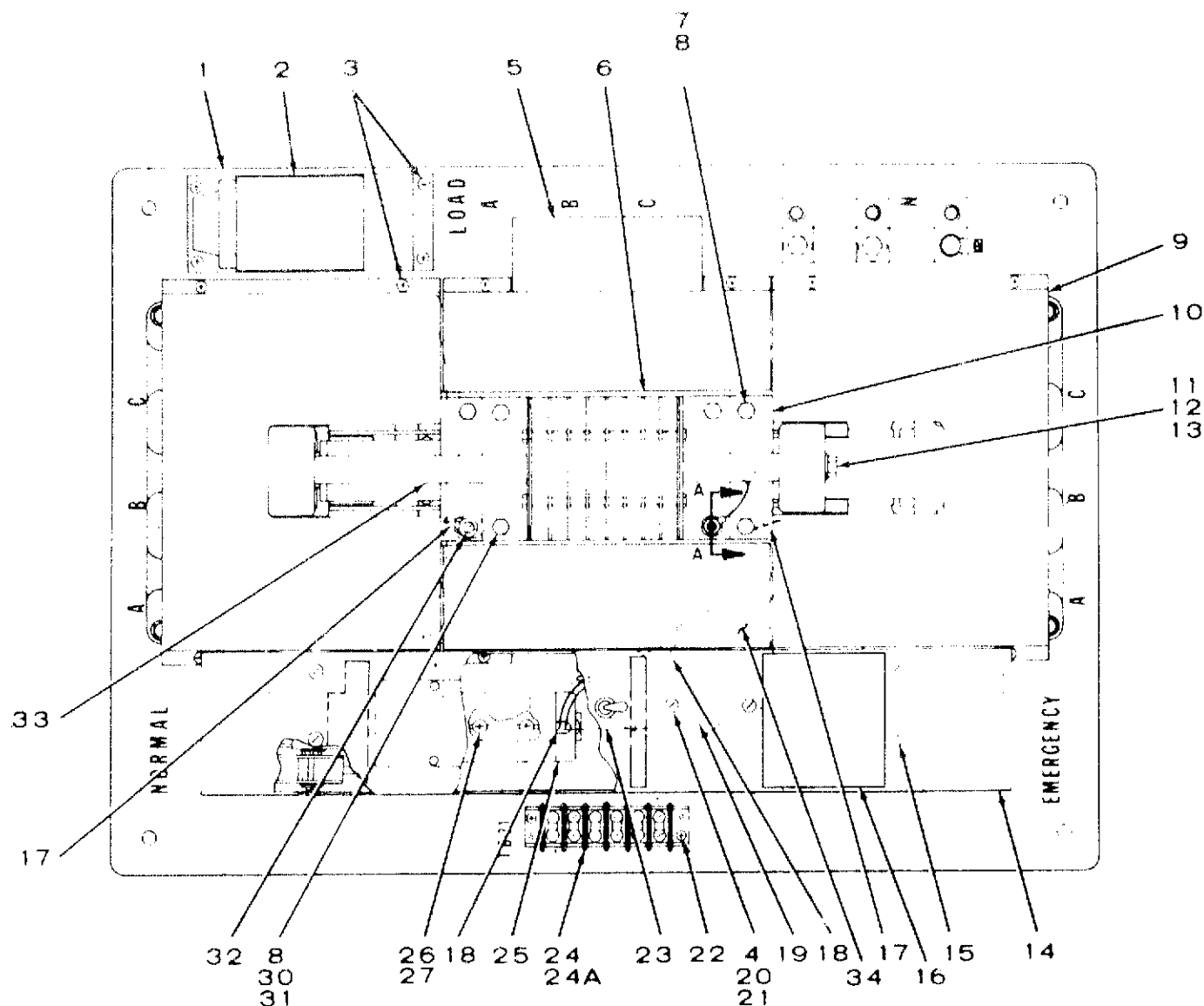
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	306-1891	1	208/220 Volt, 50/60 Hertz	14	306-0641	1	Cover, Auxiliary Switch (Includes Toggle Switch)
	306-1891	1	240 Volt, 60 Hertz	15	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
	306-1892	1	240 Volt, 50 Hertz	16	98-3107	1	Label, Instruction
	306-1893	1	347 Volt, 50/60 Hertz	17	332-0942	10	Tie, Cable
	306-1894	1	440/480 Volt, 50/60 Hertz	18	332-2211	3	Terminal
1	SWITCHING ASSEMBLY (See Separate Group for Components)			19	BREAKER, CIRCUIT		
			Specs A and B		320-0612	1	110/120 Volt, 50/60 Hertz
	306-0936	1	2 Pole, 1 Phase - Standard		320-0609	1	208/220/240 Volt, 50/60 Hertz
	306-0938	1	2 Pole, 1 Phase - Rear Connected		320-0608	1	347 Volt, 50/60 Hertz
	306-0932	1	3 Pole, 3 Phase - Standard		320-0606	1	440/480 Volt, 50/60 Hertz
	306-0934	1	3 Pole, 3 Phase - Rear Connected	20	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
			Begin Spec C	21	860-0003	2	Nut, Hex (#6-32)
	306-1863	1	2 Pole, 1 Phase - Standard	22	812-0084	2	Screw, Machine - Round Head (#6-32 x 1")
	306-1864	1	2 Pole, 1 Phase - Rear Connected	23	336-2787	1	Lead - 347/440/480 Volt, 50/60 Hertz
	306-1861	1	3 Pole, 3 Phase - Standard	24	338-1041	1	Harness, Wiring (Includes Terminal Block)
	306-1862	1	3 Pole, 3 Phase - Rear Connected	24A	332-1541	1	Block, Terminal (Part of Wiring Harness)
3	815-0486	12	Screw, Machine - Round Head W/IT (#8-32 x 3/4")	25	CAPACITOR		
4	853-0003	2	Washer, Lock - ET (#6)		312-0209	1	110/120 Volt, 50/60 Hertz
5	306-1378	1	Cover, Load		312-0204	1	208/220/240 Volt, 50/60 Hertz
6	ACTUATOR, LINEAR				312-0204	2	347 Volt, 50/60 Hertz
	306-0794	1	110/120 Volt, 50/60 Hertz		312-0203	2	440/480 Volt, 50/60 Hertz
	306-0799	1	208/220/240 Volt, 50/60 Hertz	26	SCREW, MACHINE - FLAT HEAD (#10-32 x 7/8")		
	306-0798	1	347 Volt, 50/60 Hertz		815-0165	2	110/120/208/220/240 Volt, 50/60 Hertz
	306-0797	1	440/480 Volt, 50/60 Hertz		815-0165	4	347/440/480 Volt, 50/60 Hertz
7	800-0185	4	Screw, Cap - Hex Head (1/4-20 x 5-1/2")	27	WASHER, LOCK - EXTERNAL TOOTH (#10)		
8	850-0040	4	Washer, Lock - Spring (1/4")		855-0008	2	110/120/208/220/240 Volt, 50/60 Hertz
9	306-0564	2	Cover, Contacts		855-0008	4	347/440/480 Volt, 50/60 Hertz
11	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	32	306-0336	4	Spacer, Actuator Mounting
12	850-0045	2	Washer, Lock - Spring (5/16")	33	306-0435	1	Rod, Actuator
				34	306-0563	1	Cover, Actuator

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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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (COMPLETE)						
			2 Pole				
			Standard				
306-1331	1		208/220 Volt, 50/60 Hertz	306-1327	1		240 Volt, 50 Hertz
306-1331	1		240 Volt, 60 Hertz	306-1328	1		347 Volt, 50/60 Hertz
306-1332	1		240 Volt, 50 Hertz	306-1329	1		440/480 Volt, 50/60 Hertz
306-1333	1		347 Volt, 50/60 Hertz	1	SWITCHING ASSEMBLY (See Separate Group for Components)		
306-1334	1		440/480 Volt, 50/60 Hertz	306-1415	1		2 Pole, 1 Phase - Standard
			Rear Connected	306-1416	1		2 Pole, 1 Phase - Rear Connected
306-1336	1		208/220 Volt, 50/60 Hertz	306-1413	1		3 Pole, 3 Phase - Standard
306-1336	1		240 Volt, 60 Hertz	306-1414	1		3 Pole, 3 Phase - Rear Connected
306-1337	1		240 Volt, 50 Hertz	2	Relay Assembly (Consists of Parts Marked *)		
306-1338	1		347 Volt, 50/60 Hertz	301-4577	1		*Bracket, Relay Mounting
306-1339	1		440/480 Volt, 50/60 Hertz	*RELAY, TIME DELAY (Includes Mounting Hardware)			
			3 Pole	307-1628	1		208/220 Volt, 50/60 Hertz
			Standard	307-1628	1		240 Volt, 60 Hertz
306-1321	1		208/220 Volt, 50/60 Hertz	307-1629	1		240 Volt, 50 Hertz
306-1321	1		240 Volt, 60 Hertz	307-1630	1		347 Volt, 50/60 Hertz
306-1322	1		240 Volt, 50 Hertz	307-1631	1		440/480 Volt, 50/60 Hertz
306-1323	1		347 Volt, 50/60 Hertz	3	815-0496	16	Screw, Machine - Round Head
306-1324	1		440/480 Volt, 50/60 Hertz				W/T (#8-32 x 3/4")
			Rear Connected	5	306-1639	1	by ☐ / ☐
306-1326	1		208/220 Volt, 50/60 Hertz				
306-1326	1		240 Volt, 60 Hertz				

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE PROGRAMMED TRANSITION)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
6	ACTUATOR, LINEAR		
	306-1365	1	208/220/240 Volt, 50/60 Hertz
	306-1366	1	347 Volt, 50/60 Hertz
	306-1367	1	440/480 Volt, 50/60 Hertz
7	800-0017	4	Screw, Cap - Hex Head (1/4-20 x 3-1/2")
8	850-0040	8	Washer, Lock - Spring (1/4")
9	306-1373	1	Cover, Contacts
10	306-1637	1	Plate, Motor Mounting
11	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
12	526-0115	2	Washer, Flat (11/22" ID x 11/16" OD x 1/16" Thk)
13	306-1418	2	Rod End, Actuator
14	306-0641	1	Cover, Auxiliary Switch (Includes Switch & Lead)
15	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
16	98-3107	1	Label, Instruction
17	332-0942	10	Tie, Cable
18	332-2211	3	Terminal
19	BREAKER, CIRCUIT		
	320-0608	1	347 Volt, 50/60 Hertz
	320-0606	1	440/480 Volt, 50/60 Hertz
20	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")

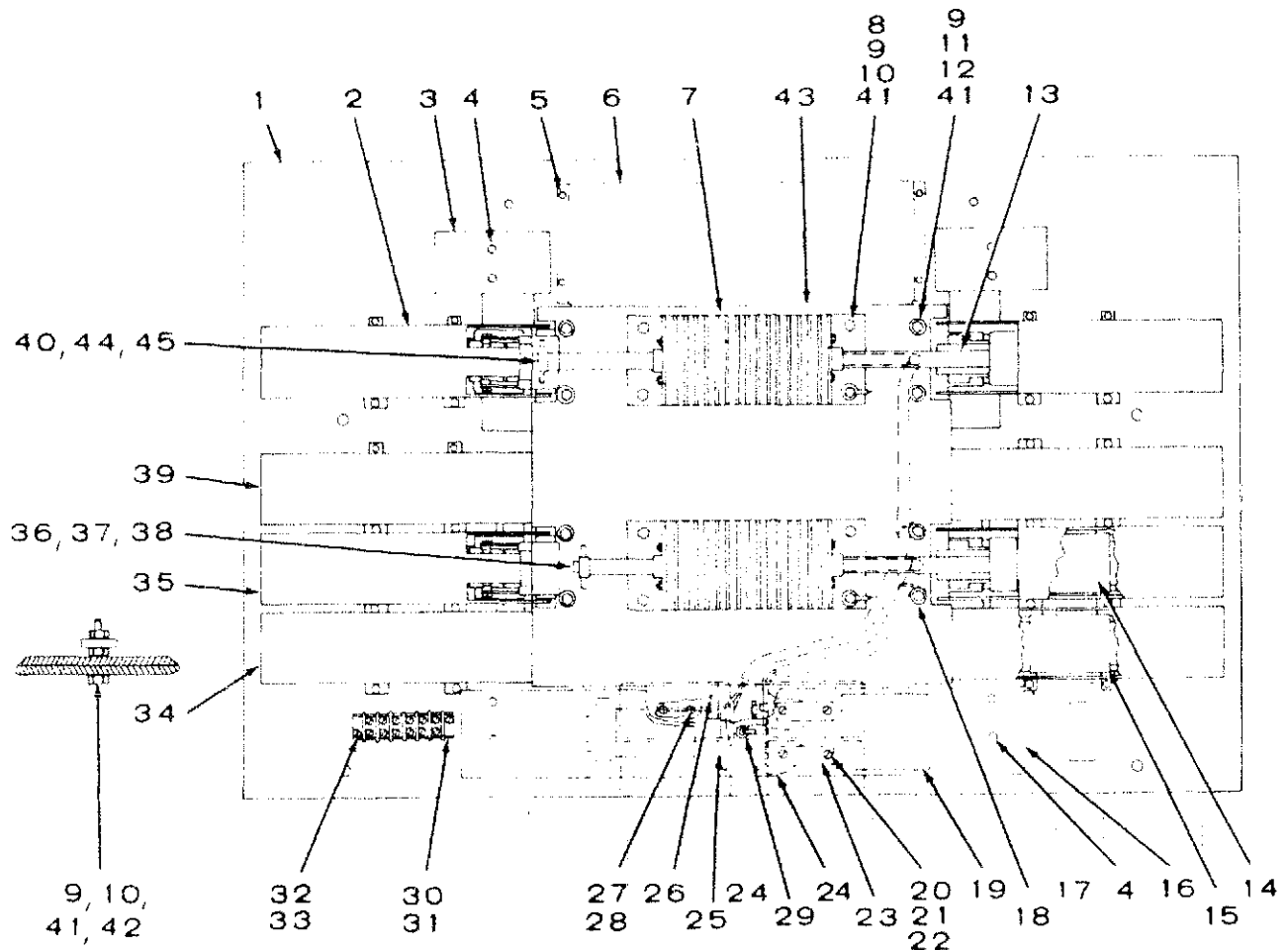
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
21	860-0006	2	Nut, Hex (#6-32)
22	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")
23	336-2787	1	Lead (347/440/480 Volt, 50/60 Hertz)
24	338-1113	1	Harness, Wiring (Includes Terminal Block)
24A	332-1541	1	Block, Terminal (Part of Wiring Harness)
25	CAPACITOR		
	312-0204	1	208/220/240 Volt, 50/60 Hertz
	312-0204	2	347 Volt, 50/60 Hertz
	312-0203	2	440/480 Volt, 50/60 Hertz
26	SCREW, MACHINE - FLAT HEAD (#10-32 x 3/4")		
	815-0165	2	208/220/240 Volt, 50/60 Hertz
	815-0165	4	347/440/480 Volt, 50/60 Hertz
27	WASHER, LOCK - EXTERNAL TOOTH (#10)		
	855-0008	2	208/220/240 Volt, 50/60 Hertz
	855-0008	4	347/440/480 Volt, 50/60 Hertz
30	800-0544	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
31	862-0001	4	Nut, Hex (1/4-20)
32	306-1370	4	Spacer, Actuator Mounting
33	306-1371	1	Rod, Actuator
34	306-1638	1	Cover, Actuator

* - Parts Included in Relay Assembly.

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

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)			12	306-0602	8	Spacer, Actuator Mounting
	Standard			13	306-1475	1	Rod, Actuator
	306-1501	1	208/220/240 Volt, 50/60 Hertz	14	306-1038	2	Barrier, Arc Chute
	306-1502	1	347 Volt, 50/60 Hertz	15	306-1041	4	Barrier, Arc Chute
	306-1503	1	440/480 Volt, 50/60 Hertz	16	306-1580	1	Cover, Auxiliary Switch
			Rear Connected	17	306-1474	1	Rod, Actuator
	306-1504	1	208/220/240 Volt, 50/60 Hertz	18	332-0942	10	Tie, Cable
	306-1505	1	347 Volt, 50/60 Hertz	19	98-3107	1	Label, Instruction
	306-1506	1	440/480 Volt, 50/60 Hertz	20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")
1	SWITCHING ASSEMBLY (See Separate Group for Components)			21	853-0003	4	Washer, Lock - ET (#6)
	306-1485	1	Standard	22	860-0006	4	Nut, Hex (#6-32)
	306-1486	1	Rear Connected	23	BREAKER, CIRCUIT		
2	306-1433	2	Cover, Contact		320-0611	2	208/220/240 Volt, 50/60 Hertz
3	306-1430	2	Cover, Auxiliary Switch		320-0608	2	347 Volt, 50/60 Hertz
4	815-0364	8	Screw, Machine - Round Head x Recessed W/ET (#10-32 x 1/2")		320-0609	2	440/480 Volt, 50/60 Hertz
5	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")	24	332-2211	6	Terminal
6	306-1434	1	Cover, Load	25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz Units
7	ACTUATOR, LINEAR			26	CAPACITOR		
	306-0843	2	208/220/240 Volt, 50/60 Hertz		312-0218	2	208/220/240 Volt, 50/60 Hertz
			Hertz		312-0205	4	347 Volt, 50/60 Hertz
	306-0842	2	347 Volt, 50/60 Hertz		312-0204	4	440/480 Volt, 50/60 Hertz
	306-0841	2	440/480 Volt, 50/60 Hertz	27	SCREW, MACHINE - FLAT HEAD X RECESSED (#10-32 x 7/8")		
8	800-0004	6	Screw, Cap - Hex Head (1/4-20 x 5/8")		815-0165	4	208/220/240 Volt, 50/60 Hertz
9	850-0040	20	Washer, Lock - Spring		815-0165	8	347/440/480 Volt, 50/60 Hertz
10	862-0001	10	Nut, Hex (1/4-20)	28	WASHER, LOCK - ET (#10)		
11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")		855-0008	4	208/220/240 Volt, 50/60 Hertz
					855-0008	8	347/440/480 Volt, 50/60 Hertz
				29	308-0406	1	Switch, Auxiliary

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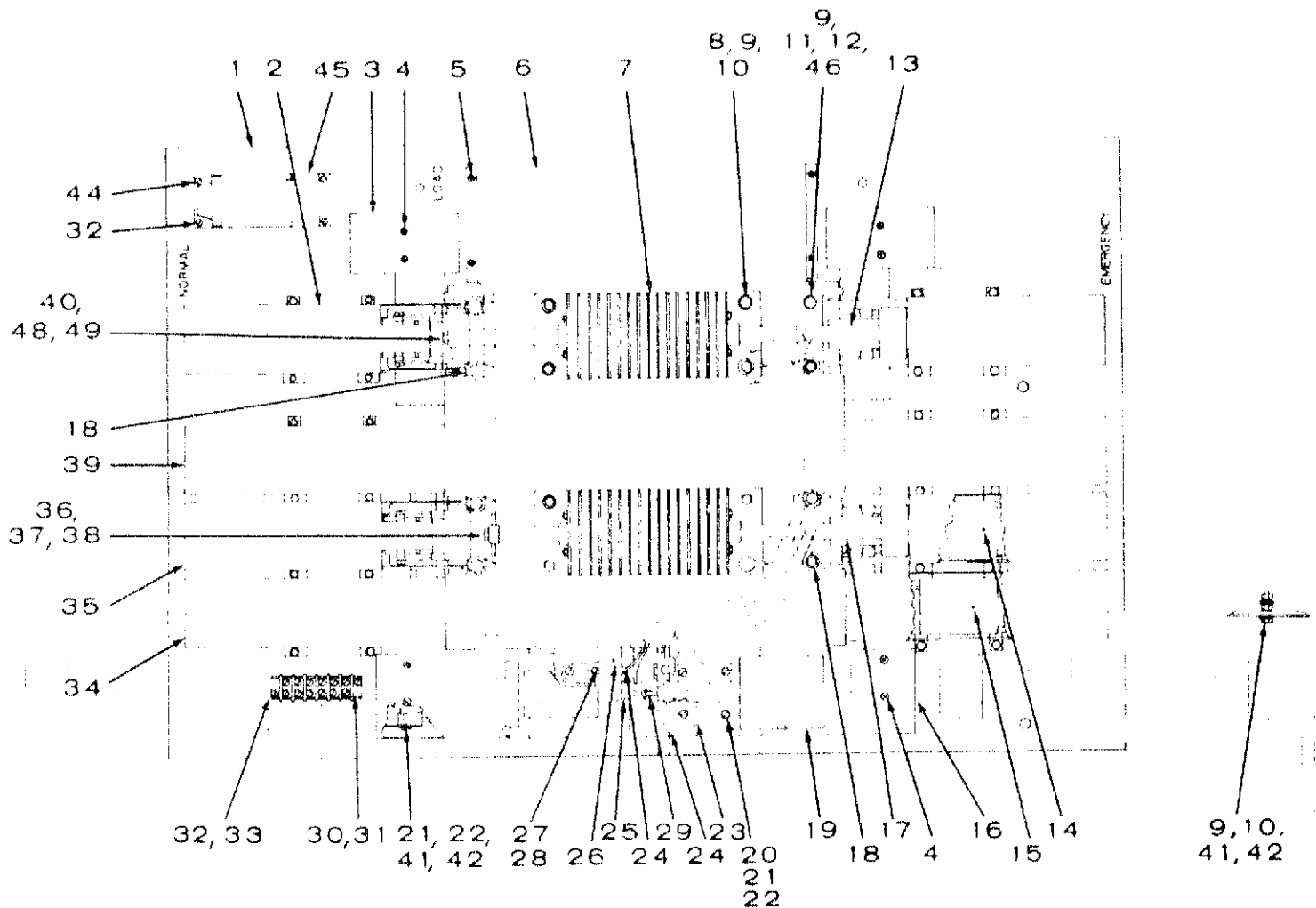
TRANSFER SWITCH ASSEMBLY (4 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
30	338-1150	1	Harness, Wiring (Includes Terminal Block)	39	306-0333	2	Cover, Contact (RH)
31	332-1541	1	Block, Terminal (Part of Wiring Harness)	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
32	854-0007	2	Washer, Lock - IT (#8)	41	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")	42	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
34	306-0331	2	Cover, Contact (LH)	43	306-1432	1	Cover, Motor Mounting
35	306-0332	2	Cover, Contact	44	306-1647	2	Rod End, Actuator
36	306-1385	2	Rod End, Actuator	45	850-0050	2	Washer, Lock - Spring (3/8")
37	850-0045	2	Washer, Lock - Spring (5/16")				
38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/6")				

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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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (COMPLETE)			8	600-0004	8	Screw, Cap - Hex Head (1/4-20 x 5/8")
	Standard			9	850-0040	18	Washer, Lock - Spring (1/4")
	306-1589	1	208/220 Volt, 50/60 Hertz	10	862-0001	10	Nut, Hex (1/4-20)
	306-1589	1	240 Volt, 60 Hertz	11	800-0187	8	Screw, Cap - Hex Head (1/4-20 x 5")
	306-1590	1	240 Volt, 50 Hertz	12	306-0602	8	Spacer, Actuator Mounting
	306-1591	1	347 Volt, 50/60 Hertz	13	306-1475	1	Rod, Actuator
	306-1592	1	440/480 Volt, 50/60 Hertz	14	306-1038	2	Barrier, Arc Chute
			Rear Connected	15	306-1041	4	Barrier, Arc Chute
	306-1593	1	208/220 Volt, 50/60 Hertz	16	306-1580	1	Cover, Auxiliary Switch
	306-1593	1	240 Volt, 60 Hertz	17	306-1474	1	Rod, Actuator
	306-1594	1	240 Volt, 50 Hertz	18	332-0821	7	Tie, Cable
	306-1595	1	347 Volt, 50/60 Hertz	19	98-3107	1	Label, Instruction
	306-1596	1	440/480 Volt, 50/60 Hertz	20	812-0063	4	Screw, Machine - Round Head (#6-32 x 1/2")
1	SWITCHING ASSEMBLY (See Separate Group for Components)			21	853-0003	8	Washer, Lock - ET (#6)
	306-1485	1	Standard	22	860-0006	8	Nut, Hex (#6-32)
	306-1486	1	Rear Connected	23	BREAKER, CIRCUIT		
2	306-1433	2	Cover, Contact		320-0611	2	208/220/240 Volt, 50/60 Hertz
3	306-1430	2	Cover, Auxiliary Switch		320-0608	2	347 Volt, 50/60 Hertz
4	815-0364	8	Screw, Machine - Round Head (#10-32 x 1/2")		320-0609	2	440/480 Volt, 50/60 Hertz
5	812-0062	4	Screw, Machine - Round Head (#8-32 x 3/4")	24	332-2211	6	Terminal
6	306-1434	1	Cover, Load	25	336-2787	2	Lead - 347/440/480 Volt, 50/60 Hertz
7	ACTUATOR LINEAR			26	CAPACITOR		
	306-0843	2	208/220/240 Volt, 50/60 Hertz		312-0218	2	208/220/240 Volt, 50/60 Hertz
	306-0842	2	347 Volt, 50/60 Hertz		312-0206	4	347 Volt, 50/60 Hertz
	306-0841	2	440/480 Volt, 50/60 Hertz		312-0204	4	440/480 Volt, 50/60 Hertz

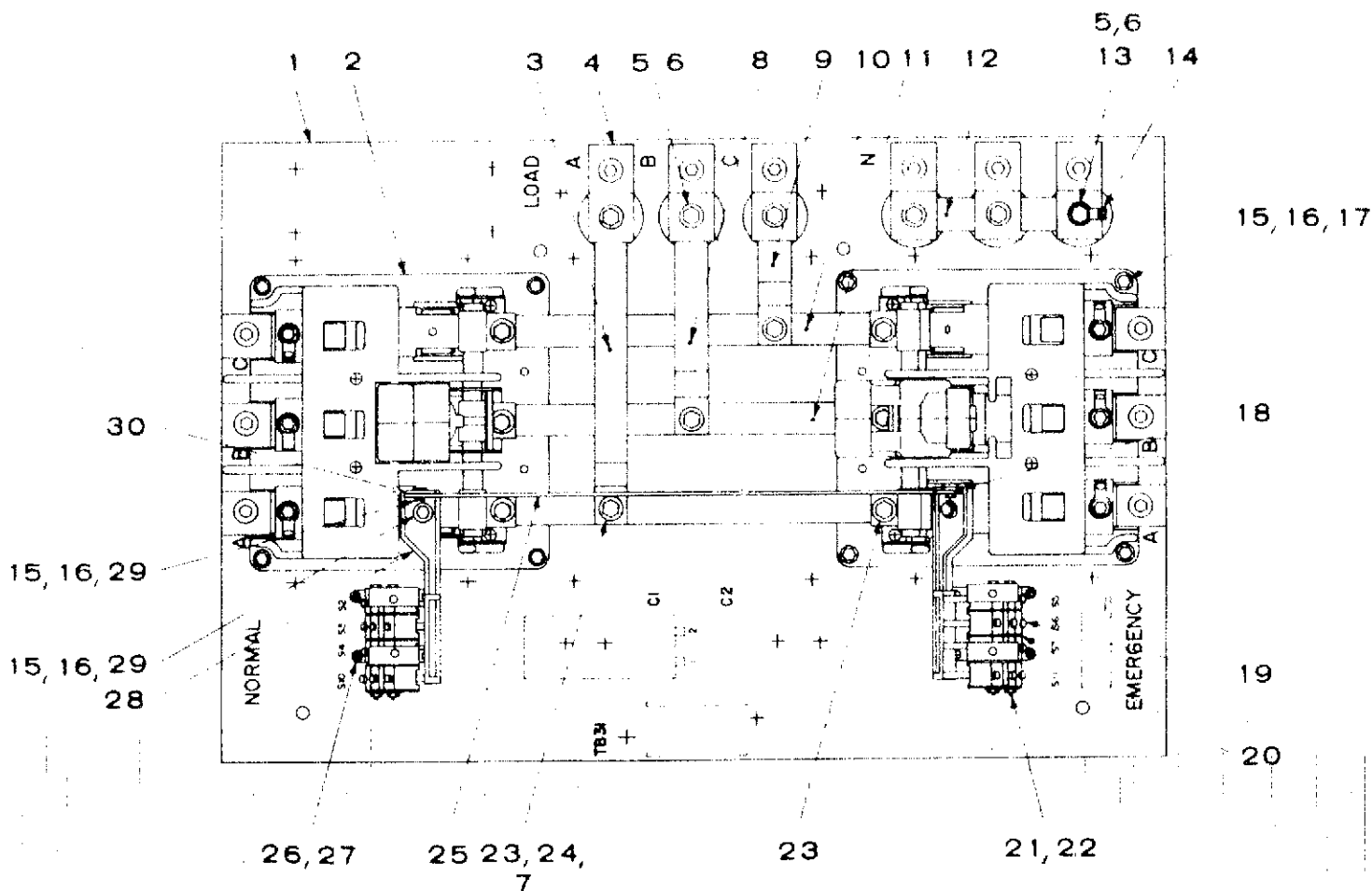
TRANSFER SWITCH ASSEMBLY (4 POLE) - PROGRAMMED TRANSITION

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
27	SCREW, MACHINE - FLAT HEAD X RECESSED (#10-32 x 7/8")			39	306-0333	2	Cover, Contact (RH)
	815-0165	4	208/220/240 Volt, 50/60 Hertz	40	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
	815-0165	8	347/440/480 Volt, 50/60 Hertz	41	306-0281	4	Barrier, Switch
28	WASHER, LOCK - ET COUNTER SUNK (#10)			42	309-0297	2	Switch, Snap Action
	855-0008	4	208/220/240 Volt, 50/60 Hertz	43	812-0082	4	Screw, Machine - Round Head (#8-32 x 3/4")
	855-0008	8	347/440/480 Volt, 50/60 Hertz				
29	308-0406	1	Switch, Toggle	44	RELAY, TIME DELAY		
30	338-1154	1	Harness, Wiring (Includes Terminal Block)		307-1628	1	208/220 Volt, 50/60 Hertz
					307-1628	1	240 Volt, 60 Hertz
31	332-1541	1	Block, Terminal (Part of Wiring Harness)		307-1629	1	240 Volt, 50 Hertz
32	854-0007	6	Washer, Lock - IT (#8)		307-1630	1	347 Volt, 50/60 Hertz
33	812-0084	2	Screw, Machine - Round Head (#8-32 x 1")		307-1631	1	440/480 Volt, 50/60 Hertz
34	306-0331	2	Cover, Contact (LH)	45	301-4577	1	Bracket, Relay Mounting
35	306-0332	2	Cover, Contact	46	526-0018	20	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)
36	306-1385	2	Rod End Actuator	47	800-0009	2	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
37	850-0045	2	Washer, Lock - Spring (5/16")	48	850-0050	2	Washer, Lock - Spring (3/8")
38	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	49	306-1647	2	Rod End, Actuator

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

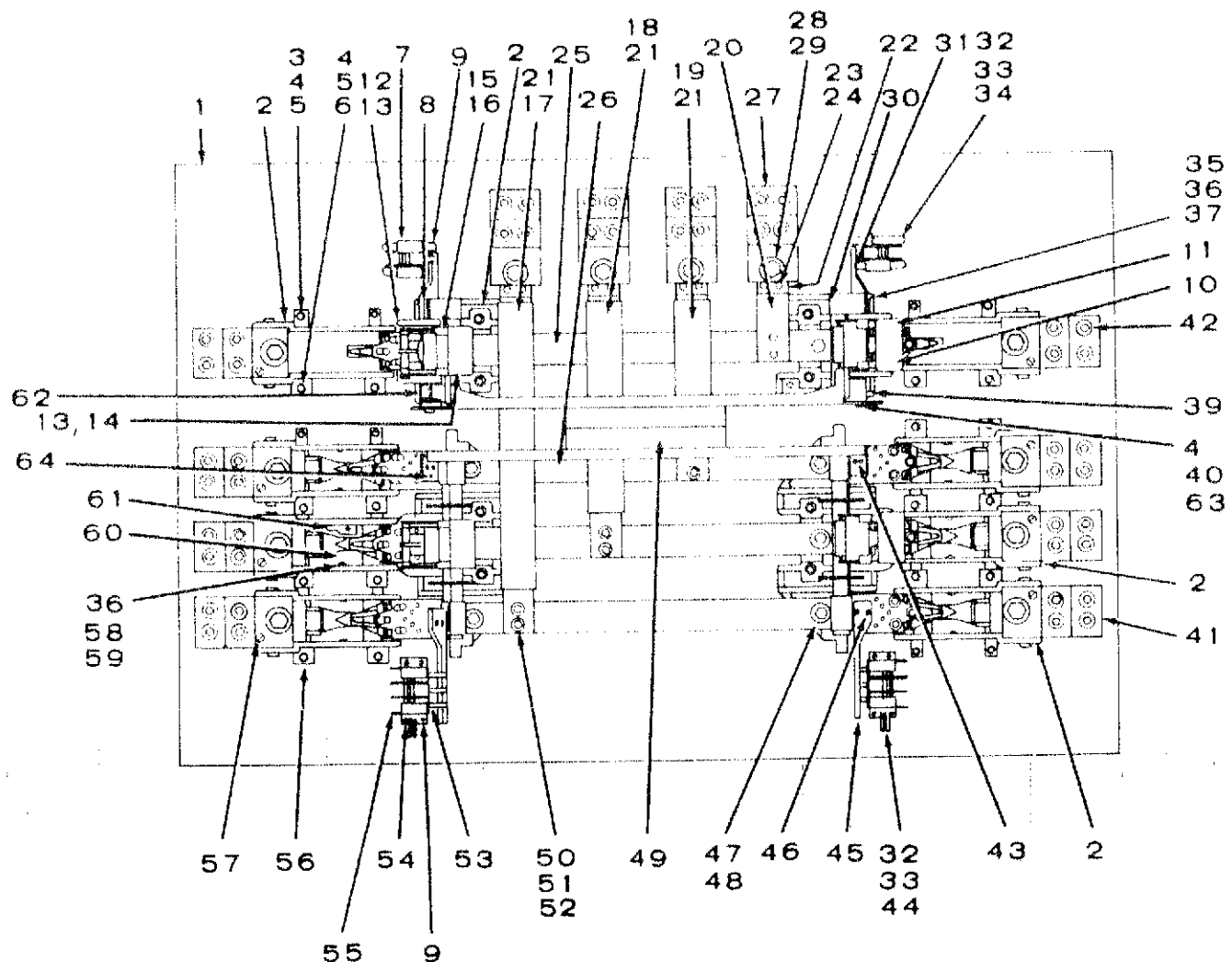
SWITCHING ASSEMBLY (2 AND 3 POLE)

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SWITCHING ASSEMBLY (2 AND 3 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
3	STRAP, LOAD		Standard		337-0407	2	Units With Programmed Transition
	306-0504	1	Units Without Programmed Transition - Specs A and B	11	STRAP, JUMPER - 3 POLE, 3 PHASE UNITS		
	337-0442	1	Units Without Programmed Transition - Begin Spec C		337-0211	1	Units Without Programmed Transition
	337-0411	1	Units With Programmed Transition		337-0408	1	Units With Programmed Transition
	337-0215	1	Rear Connected	12	STRAP, NEUTRAL - STANDARD CONNECTED		
4	LUG, SOLDERLESS - STANDARD CONNECT UNITS				337-0432	1	Units Without Programmed Transition
	332-2129	5	2 Pole, 1 Phase		337-0417	1	Units With Programmed Transition
	332-2129	6	3 Pole, 3 Phase	13	332-1913	1	Terminal, Ring (Standard Connected)
5	SCREW, CAP - HEX HEAD W/CONE WASHER (5/16-18 x 1") - UNITS WITHOUT PROGRAMMED TRANSITION			14	815-0410	1	Screw, Machine - Binder Head (#6-32 x 1/4") - Standard Connected
	815-0459	5	2 Pole, 1 Phase - Standard	15	854-0014	12	Washer, Lock - IT (1/4")
	815-0459	6	2 Pole, 1 Phase - Rear Connected	16	526-0015	12	Washer, Flat (9/32" ID x 9/16" OD x 1/16" Thk) - Units With Programmed Transition
	815-0459	6	3 Pole, 3 Phase - Standard	17	800-0009	8	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
	815-0459	9	3 Pole, 3 Phase - Rear Connected	18	306-0510	1	Arm, Interlock Assembly
5	SCREW, CAP - HEX HEAD (5/16-18 x 7/8") - UNITS WITH PROGRAMMED TRANSITION			19	SWITCH, SNAP ACTION		
	800-0027	5	2 Pole, 1 Phase - Standard		309-0297	6	Units Without Programmed Transition
	800-0027	6	3 Pole, 3 Phase - Standard		309-0297	8	Units With Programmed Transition
6	WASHER, LOCK - SPRING (5/16") - UNITS WITH PROGRAMMED TRANSITION			20	BARRIER, SWITCH		
	851-0028	6	2 Pole, 1 Phase - Standard		306-0281	8	Units Without Programmed Transition
	851-0028	5	3 Pole, 3 Phase - Standard		306-0281	12	Units With Programmed Transition
8	STRAP, LOAD - 3 POLE, 3 PHASE UNITS		Units Without Programmed Transition	21	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")
			Specs A and B	22	870-0183	4	Nut, Hex - W/ET (#6-32)
	337-0505	1	Standard	23	SCREW, CAP - HEX HEAD W/CONE WASHER (5/16-18 x 1")		
	337-0215	1	Rear Connected		815-0459	6	2 Pole, 1 Phase
			Begin Spec C		815-0459	9	3 Pole, 3 Phase
	337-0441	1	Standard	24	NUT, HEX (5/16-18)		
	337-0215	1	Rear Connected		862-0015	2	2 Pole, 1 Phase
			Units With Programmed Transition		862-0015	3	3 Pole, 3 Phase
	337-0410	1	Standard	25	BAR, INTERLOCK		
	337-0215	1	Rear Connected		306-0399	1	Units Without Programmed Transition
9	STRAP, LOAD		Units Without Programmed Transition		306-1636	1	Units With Programmed Transition
			Specs A and B	26	306-0258	4	Bracket, Accessory Switch
	337-0210	1	Standard	27	815-0447	8	Screw, Machine - Round Head W/IT (#8-32 x 3/4")
	337-0215	1	Rear Connected	28	306-0565	2	Lever
			Begin Spec C	29	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
	337-0436	1	Standard	30	306-0509	1	Arm, Interlock Assembly
	337-0215	1	Rear Connected				
			Units With Programmed Transition				
	337-0409	1	Standard				
	337-0215	1	Rear Connected				
10	STRAP, JUMPER						
	337-0212	2	Units Without Programmed Transition				

SWITCHING ASSEMBLY (4 POLE)



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
SWITCHING ASSEMBLY (COMPLETE)				17	STRAP, LOAD		
	306-1485	1	Standard	306-1449	1		Standard (Includes Parts Marked *)
	306-1486	1	Rear Connected		337-0395	1	Rear Connected
1	BASE, SWITCH			18	STRAP, LOAD		
	306-1472	1	Standard	306-1447	1		Standard (Includes Parts Marked *)
	306-1482	1	Rear Connected		337-0395	1	Rear Connected
2	306-1837	2	Kit, Contact Replacement	19	STRAP, LOAD		
3	800-0007	22	Screw, Cap - Hex Head (1/4-20 x 1")	306-1448	1		Standard (Includes Parts Marked *)
4	526-0018	44	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk)		337-0395	1	Rear Connected
5	854-0014	40	Washer, Lock - IT (1/4")	20	STRAP, LOAD		
6	800-0008	16	Screw, Cap - Hex Head (1/4-20 x 1-1/4")	306-1440	1		Standard (Includes Parts Marked Δ)
7	306-1431	4	Bracket, Accessory Switch		337-0395	1	Rear Connected
8	306-1427	2	Spacer, Lever	21	898-1082	3	*Insulator, Sleeving
9	812-0082	16	Screw, Machine - Round Head (#8-32 x 3/4")	22	306-0313	4	*ΔBar, Stop
10	306-0643	4	Handle, Actuator - Right Side	23	815-0046	8	*ΔScrew, Machine - Phillips Head X Recessed (#8-32 x 3/8")
11	306-0644	4	Handle, Actuator - Half - Left Side	24	854-0007	8	*ΔWasher, Lock - IT (#8)
12	813-0109	4	Screw, Machine - Round Head (#10-32 x 1-3/4")	25	337-0360	2	Strap, Jumper
13	870-0298	8	Nut, Hex - Self Locking (#10-32)	26	337-0361	2	Strap, Jumper
14	813-0110	4	Screw, Machine - Round Head (#10-32 x 2")	27	332-2017	4	Lug, Solderless - Standard Units
15	815-0485	2	Screw, Machine - Shoulder Washer Lock - Spring (#10)	28	800-0092	4	Screw, Cap - Hex Head (1/2-13 x 1-1/2") - Standard Units
				29	851-0023	4	Washer, Lock - Spring (1/2")

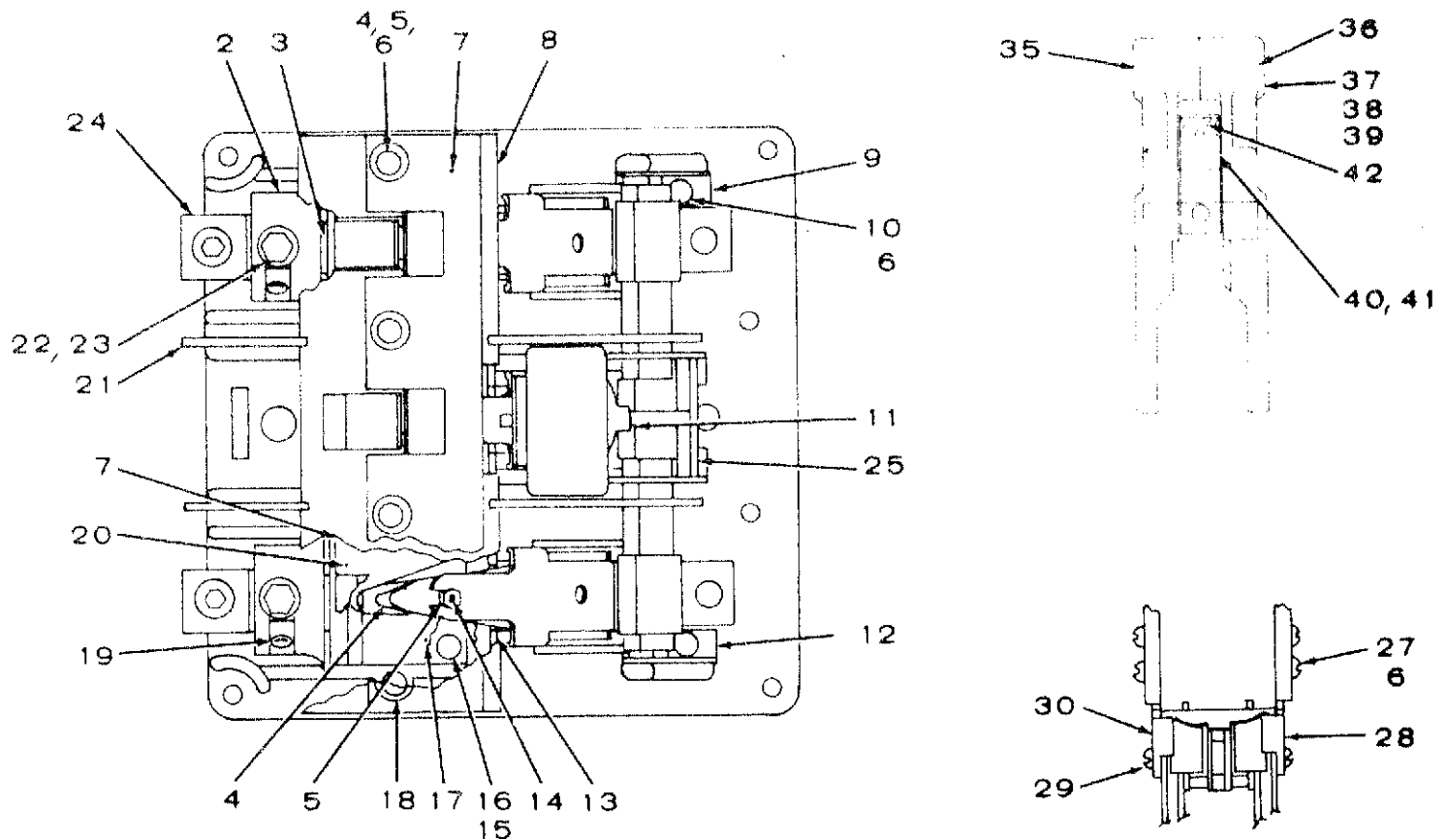
SWITCHING ASSEMBLY (4 POLE)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
30	306-1426	2	Bracket, Lever	47	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
31	306-1420	2	Lever	48	851-0022	8	Washer, Lock - Spring (3/8")
32	812-0070	4	Screw, Machine - Round Head (#6-32 x 1-1/4")	49	306-1473	1	Bar, Interlock
33	850-0020	8	Washer, Lock (#6)	50	815-0459	4	Screw, Cap - Hex Head (5/16-18 x 1")
34	860-0005	8	Nut, Hex (#6-32)	51	850-0045	4	Washer, Lock - Spring (5/16")
35	812-0086	4	Screw, Machine - Round Head (#8-32 x 1-1/4")	52	862-0015	4	Nut, Hex (5/16-18)
36	854-0007	20	Washer, Lock - IT (#8)	53	308-0297	8	Switch, Snap Action
37	860-0008	8	Nut, Hex (#8-32)	54	306-0636	4	Bracket, Auxiliary Switch
39	306-1423	2	Bracket, Interlock Bar	55	306-0281	12	Barrier, Switch
40	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")	56	166-0122	8	Spacer, Mounting Screw
41	332-2065	6	Lug, Solderless - Standard Units	57	815-0127	8	Screw, Binder Head (#8-32 x 3/8")
41	337-0317	6	Strap - Rear Connected Units	58	812-0087	12	Screw, Machine - Round Head (#10-32 x 1-1/2")
42	332-2065	2	Lug, Solderless - Standard Units	59	526-0048	12	Washer, Flat (#8)
42	337-0394	2	Strap - Rear Connected Units	60	306-0320	6	Chute, Arc
43	815-0446	4	Screw, Machine - X Recessed W/IT (#8-32 x 1/2")	61	306-0668	12	Spacer, Arc Chute
44	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")	62	306-1424	2	Spacer, Interlock
45	306-0253	2	Lever	63	850-0040	4	Washer, Lock - Spring (1/4")
46	815-0447	4	Screw, Machine - Round Head - X Recessed W/IT (#8-32 x 3/4")	64	306-0508	4	Arm, Interlock Assembly

* - Parts Included in 306-1446, 306-1449 and 306-1448
Load Strap Assemblies.

Δ - Parts Included in 306-1440 Load Strap Assembly.

BLOCK AND CROSS BAR ASSEMBLY (2 AND 3 POLE) - WITHOUT PROGRAMMED TRANSITION - SPECS A AND B



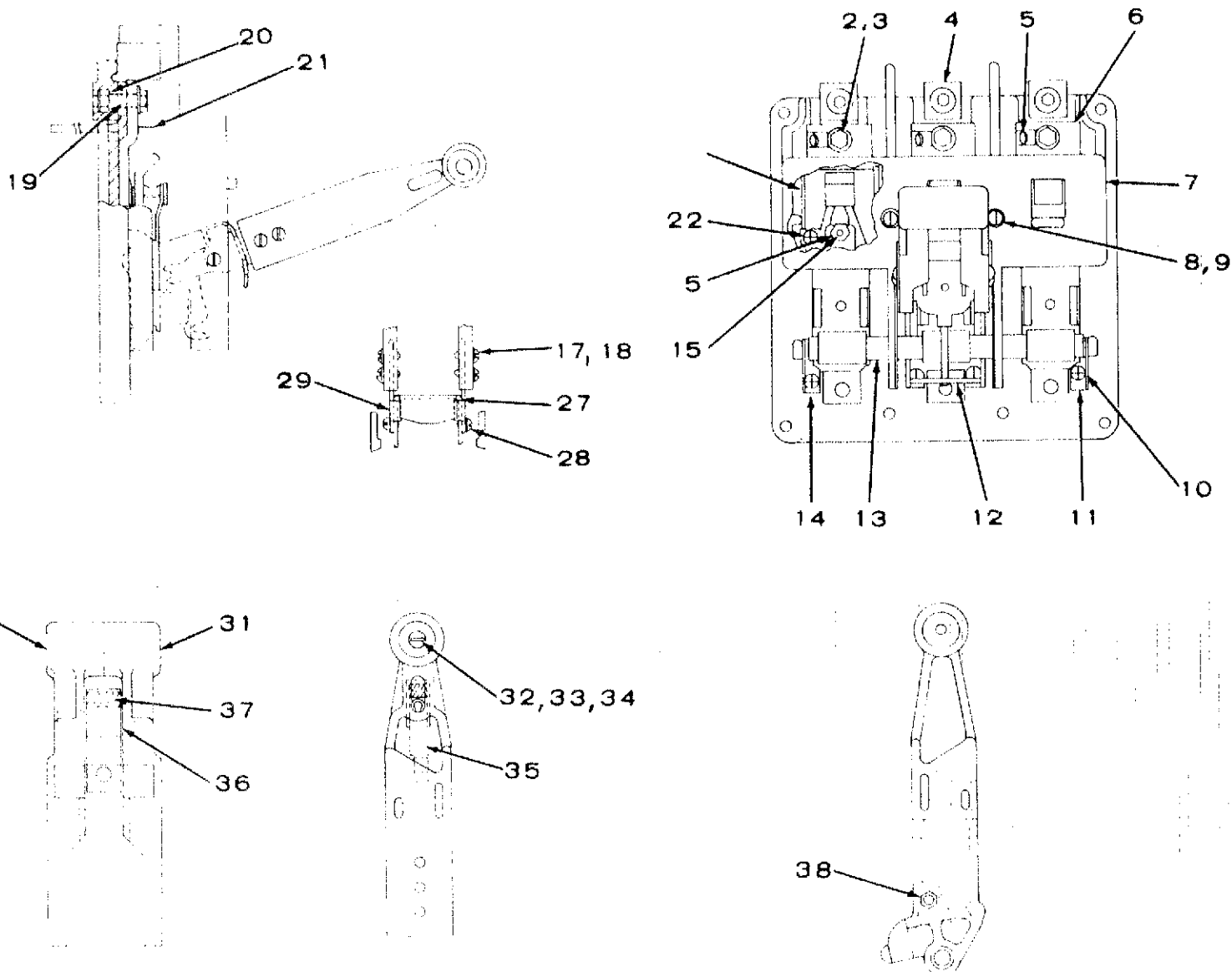
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	BLOCK AND CROSS BAR ASSEMBLY - COMPLETE		
	306-0574	2	2 Pole, 1 Phase - Standard
	306-0573	2	2 Pole, 1 Phase - Rear Connected
	306-0390	2	3 Pole, 3 Phase - Standard
	306-0572	2	3 Pole, 3 Phase - Rear Connected
2	STRAP, LINE		
	306-0570	4	2 Pole, 1 Phase
	306-0570	6	3 Pole, 3 Phase
3	BARRIER, ARC CHUTE		
	306-0571	4	2 Pole, 1 Phase
	306-0571	6	3 Pole, 3 Phase
4	815-0458	8	Screw, Machine - Pan Head (#10-32 x 3-1/4")
5	526-0009	8	Washer, Flat (7/32" ID x 1/2" OD x 1/16" Thk)
6	870-0053	28	Nut, Hex (#10-32)
7	306-0663	2	Barrier, Arc Chute
8	306-0491	2	Shield, Arc Chute
9	306-0384	2	Support, RH
10	815-0449	12	Screw, Machine - Round Head W/ET (#10-32 x 3/4")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	CROSS BAR ASSEMBLY		
	306-1375	2	2 Pole, 1 Phase
	306-0383	2	3 Pole, 3 Phase
12	306-0382	2	Support, LH
13	BARRIER, CONTACTS		
	306-0617	4	2 Pole, 1 Phase
	306-0617	6	3 Pole, 3 Phase
14	815-0157	3	Screw, Machine - Socket Head (#10-32 x 1/4")
15	SCREW, MACHINE, FLAT HEAD W/ET (#8-32 x 5/8")		
	815-0451	8	2 Pole, 1 Phase
	815-0451	12	3 Pole, 3 Phase
16	NUT, HEX (#8-32)		
	860-0008	8	2 Pole, 1 Phase
	860-0008	12	3 Pole, 3 Phase
17	BARRIER, LINE STRAP		
	306-0662	4	2 Pole, 1 Phase
	306-0662	6	3 Pole, 3 Phase
18	306-0601	4	Spacer
19	SCREW, MACHINE - BINDER HEAD (#6-32 x 1/4")		
	815-0410	4	2 Pole, 1 Phase
	815-0410	6	3 Pole, 3 Phase

BLOCK AND CROSS BAR ASSEMBLY (2 AND 3 POLE) - WITHOUT PROGRAMMED TRANSITION - SPECS A AND B

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
20	CHUTE, ARC			25	306-0381	2	Lock, Trigger
	306-0387	4	2 Pole, 1 Phase	27	815-0364	8	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
	306-0387	6	3 Pole, 3 Phase	28	306-0568	2	Adapter, Handle
21	306-0368	4	Separator, Arc Chute	29	815-0488	4	Screw, Machine - Round Head W/ET (#10-32 x 1/4")
22	TERMINAL, RING			30	306-0567	2	Adapter, Handle
	332-1913	4	2 Pole, 1 Phase	34	WASHER, FLAT (21/64" ID x 1" OD x 1/16" Thk) - Rear Connected Units		
	332-1913	6	3 Pole, 3 Phase		526-0041	2	2 Pole, 1 Phase
23	SCREW, CAP - HEX HEAD W/CONICAL (5/16-18 x 1")				526-0041	3	3 Pole, 3 Phase
	815-0459	4	2 Pole, 1 Phase	35	306-0793	2	Handle, Switch (RH)
	815-0459	6	3 Pole, 3 Phase	36	306-0791	2	Handle, Switch (LH)
24	LUG, SOLDERLESS			37	813-0109	2	Screw, Machine - Round Head (#10-32 x 1-3/4")
	332-2129	4	2 Pole, 1 Phase - Standard Connected	38	850-0030	2	Washer, Lock - Spring (#10)
	332-2129	6	3 Pole, 3 Phase - Standard Connected	39	870-0200	2	Nut, Hex (#10-32)
24	STRAP, LOAD			40	306-0286	2	Rod End, Actuator
	337-0215	4	2 Pole, 1 Phase - Rear Connected	41	306-1388	2	Guard, Finger
	337-0215	6	3 Pole, 3 Phase - Rear Connected	42	306-1389	2	Spacer

BLOCK AND CROSS BAR ASSEMBLY (2 AND 3 POLE) WITHOUT PROGRAMMED TRANSITION - BEGIN SPEC C AND ALL UNITS WITH PROGRAMMED TRANSITION



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
BLOCK AND CROSS BAR ASSEMBLY - COMPLETE			
Units Without Programmed Transition - Begin Spec C			
306-1856	2	2 Pole, 1 Phase - Standard	
306-1854	2	2 Pole, 1 Phase - Rear Connected	
306-1855	2	3 Pole, 3 Phase - Standard	
306-1852	2	3 Pole, 3 Phase - Rear Connected	
Units With Programmed Transition			
306-1407	2	2 Pole, 1 Phase - Standard	
306-1408	2	2 Pole, 1 Phase - Rear Connected	
306-1406	2	3 Pole, 3 Phase - Standard	
306-1406	2	3 Pole, 3 Phase - Rear Connected	

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	SCREW, CAP - HEX HEAD W/CONICAL WASHER		
815-0459	4	2 Pole, 1 Phase (5/16-18 x 1")	Units Without Programmed Transition - Begin Spec C
815-0459	6	3 Pole, 3 Phase (5/16-18 x 1")	
Units With Programmed Transition			
815-0507	4	2 Pole, 1 Phase (5/16-18 x 1-1/4)	
815-0507	6	3 Pole, 3 Phase (5/16-18 x 1-1/4)	
3	TERMINAL, RING		
332-1913	4	2 Pole, 1 Phase	
332-1913	6	3 Pole, 3 Phase	
4	LUG, SOLDERLESS		
332-2129	4	2 Pole, 1 Phase Standard	
337-0215	4	Rear Connected	
332-2129	6	3 Pole, 3 Phase Standard	
337-0215	6	Rear Connected	

**BLOCK AND CROSS BAR ASSEMBLY (2 AND 3 POLE)
WITHOUT PROGRAMMED TRANSITION - BEGIN SPEC C AND
ALL UNITS WITH PROGRAMMED TRANSITION**

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	SCREW, MACHINE - BINDER HEAD (#6-32 x 1/4")			22	SCREW, MACHINE - FLAT HEAD W/ET (#8-32 x 5/8")		
	815-0410	4	2 Pole, 1 Phase		815-0451	8	2 Pole, 1 Phase
	815-0410	6	3 Pole, 3 Phase		815-0451	12	3 Pole, 3 Phase
6	STRAP, LINE			23	CHUTE, ARC		
	306-0570	4	2 Pole, 1 Phase		306-0387	4	2 Pole, 1 Phase
	306-0570	6	3 Pole, 3 Phase		306-0387	6	3 Pole, 3 Phase
7	306-1400	2	Barrier, Arc Chute	27	306-0567	2	Adapter, Handle (LH) - Units Without Programmed Transi- tion - Begin Spec C
8	853-0008	4	Washer, Lock - ET (#10)	28	815-0488	4	Screw, Machine - Round Head W/ET (#10-32 x 1/4") - Units Without Programmed Transition - Begin Spec C
9	SCREW, MACHINE - ROUND HEAD			29	306-0568	2	Adapter, Handle (RH) - Units Without Programmed Transi- tion - Begin Spec C
	813-0114	4	Units Without Programmed Transition - Begin Spec C (#10-32 x 3")	30	HANDLE, SWITCH (RH)		
	813-0120	4	Units With Programmed Transition (#10-32 x 3-1/2")		306-0793	2	Units Without Programmed Transition - Begin Spec C
10	815-0449	12	Screw, Machine - Round Head W/ET (#10-32 x 3/4")		306-1341	2	Units With Programmed Transition
11	306-0384	2	Support (RH)	31	HANDLE, SWITCH (LH)		
12	306-0381	2	Lock, Trigger		306-0791	2	Units Without Programmed Transition - Begin Spec C
13	CROSS BAR ASSEMBLY				306-1342	2	Units With Programmed Transition
	306-1375	2	2 Pole, 1 Phase	32	813-0109	2	Screw, Machine - Round Head (#10-32 x 1-3/4")
	306-0383	2	3 Pole, 3 Phase	33	850-0030	2	Washer, Lock - Spring (#10) - Units Without Programmed Transition - Begin Spec C
14	306-0382	2	Support (LH)	34	NUT, HEX (#10-32)		
15	SCREW, MACHINE - SOCKET HEAD (#10-32 x 3/4")				870-0200	2	Units Without Programmed Transition - Begin Spec C
	815-0157	4	2 Pole, 1 Phase		870-0298	2	Units With Programmed Transition (Self Locking)
	815-0157	6	3 Pole, 3 Phase	35	306-0286	2	Rod End, Actuator
17	SCREW, MACHINE			36	306-1388	2	Guard, Finger
	815-0364	8	2 Pole, 1 Phase (Round Head W/ET #10-32 x 1/2")	37	306-1389	2	Spacer
	815-0485	8	3 Pole, 3 Phase (Shoulder)	38	812-0090	2	Screw, Machine - Round Head (#8-32 x 2-1/4") - Units With Programmed Transition
18	870-0053	8	Nut, Hex (#10-32) - Units Without Programmed Transi- tion - Begin Spec C				
19	BUSHING						
	306-1397	8	2 Pole, 1 Phase				
	306-1397	12	3 Pole, 3 Phase				
20	WASHER, FLAT (21/64" ID x 1" OD x 1/16" Thk) - REAR CONNECTED						
	526-0041	2	2 Pole, 1 Phase				
	526-0041	3	3 Pole, 3 Phase				
21	BARRIER, LINE STRAP						
	306-1399	4	2 Pole, 1 Phase				
	306-1399	6	3 Pole, 3 Phase				