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McGRAW-EDISON

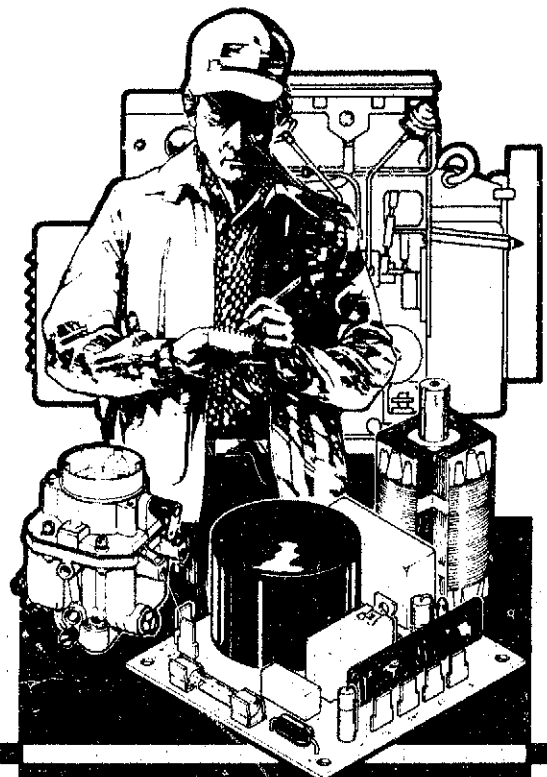
Onan

Parts Manual

OT

100 Amp

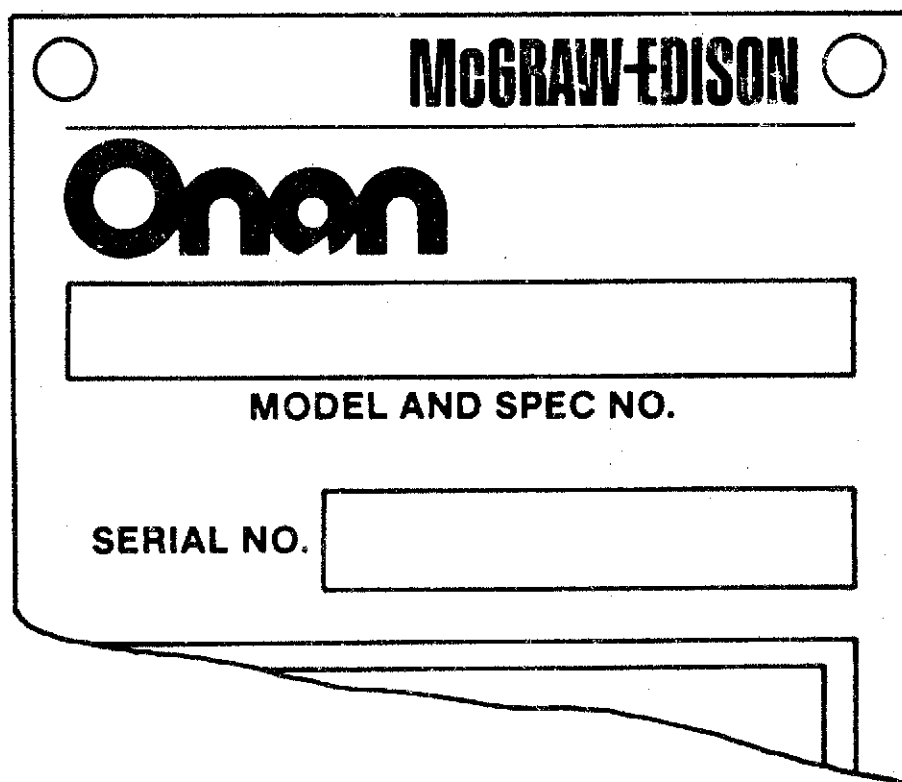
Transfer Switch



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, it features the 'McGraw-Edison' logo in a bold, sans-serif font, flanked by two small circles. Below this is the 'Onan' logo in a large, stylized, bold font. Under the 'Onan' logo is a large rectangular box for 'MODEL AND SPEC NO.'. Below that is a smaller rectangular box for 'SERIAL NO.'. The bottom right corner of the form has a small number 'M-1149'.

McGraw-Edison

Onan

MODEL AND SPEC NO.

SERIAL NO.

M-1149

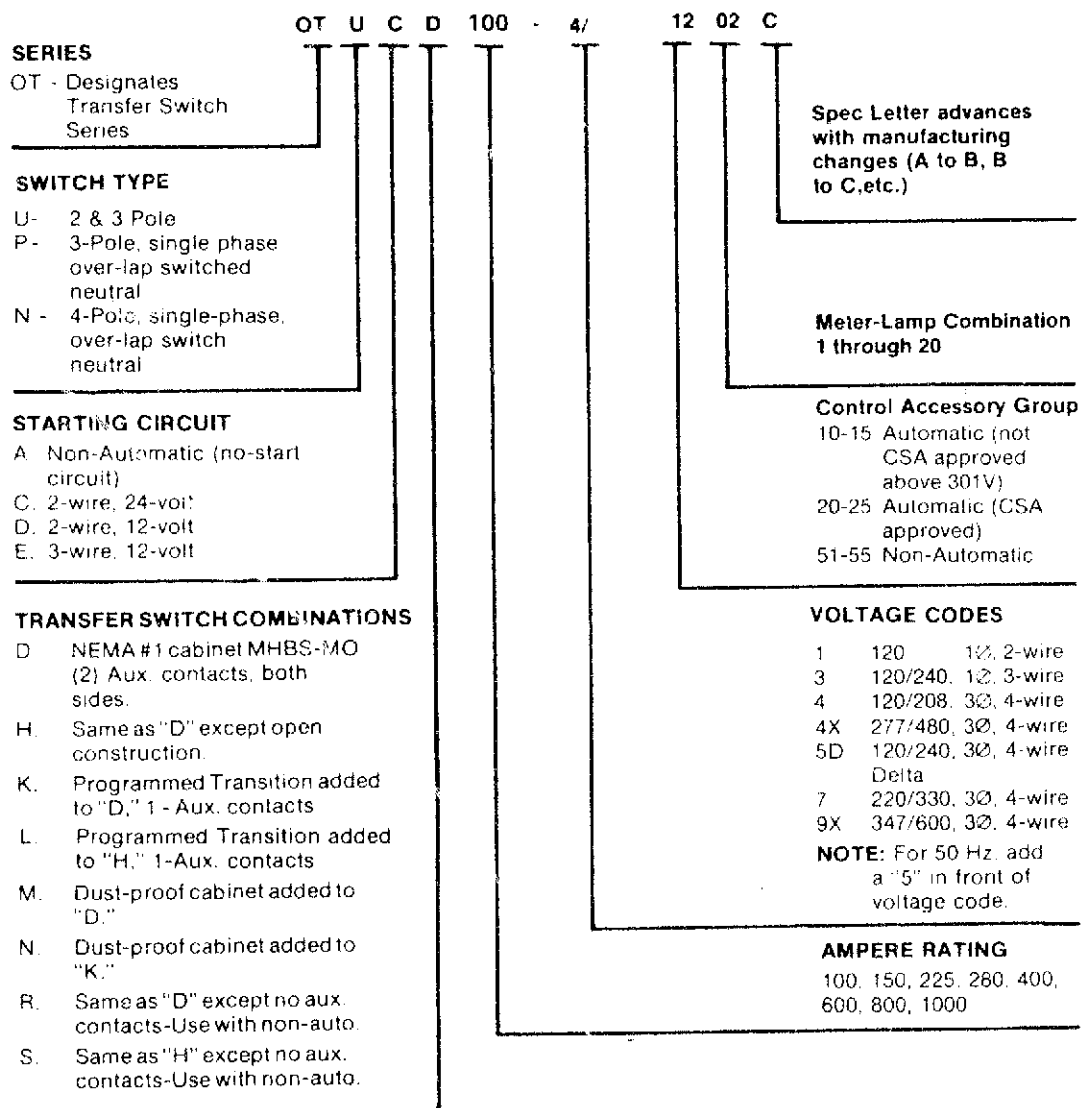
For handy reference, insert "YOUR" nameplate information in the spaces above.

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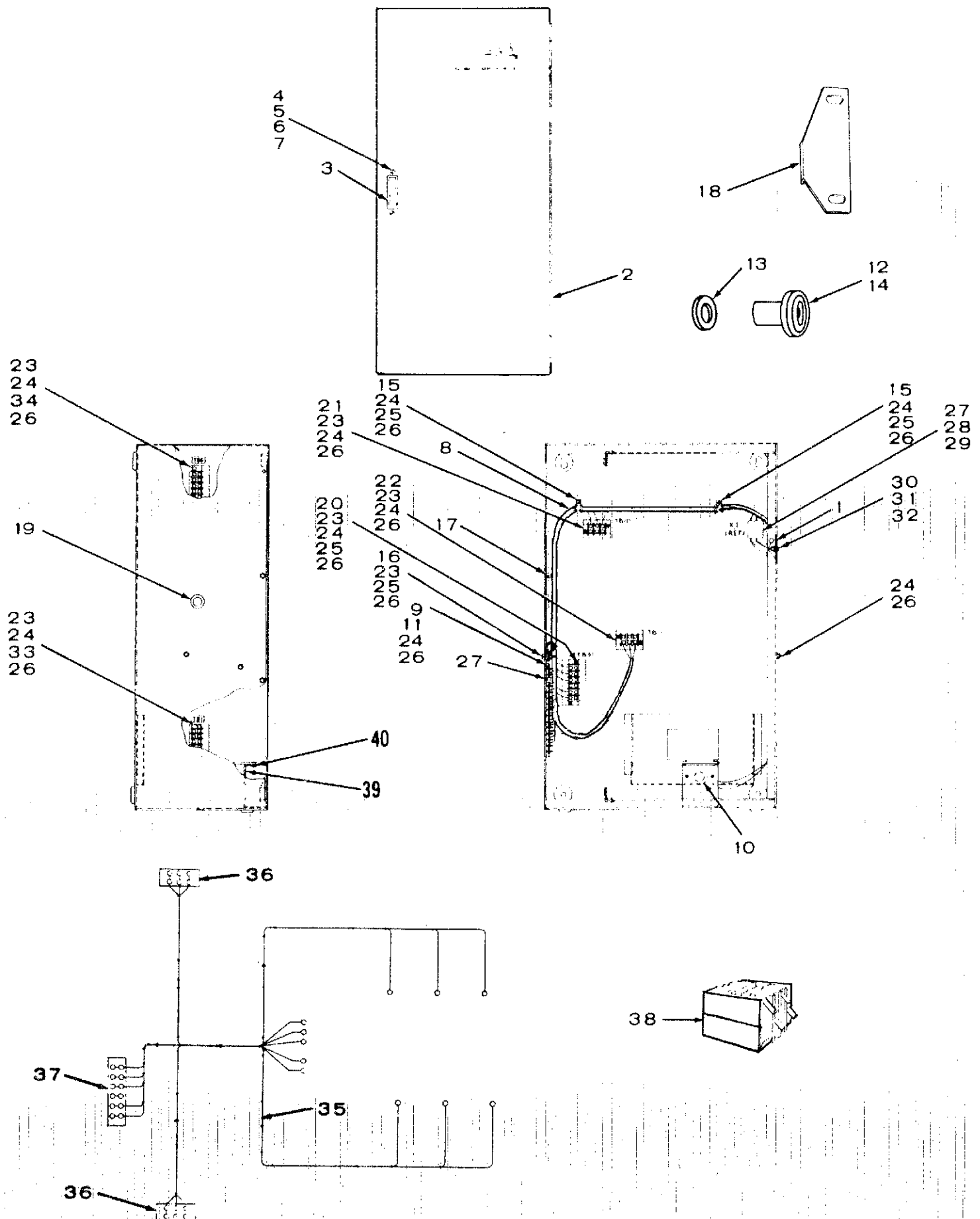
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This catalog applies to the OT Transfer Switches as indicated below. Parts are arranged in sections. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations 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



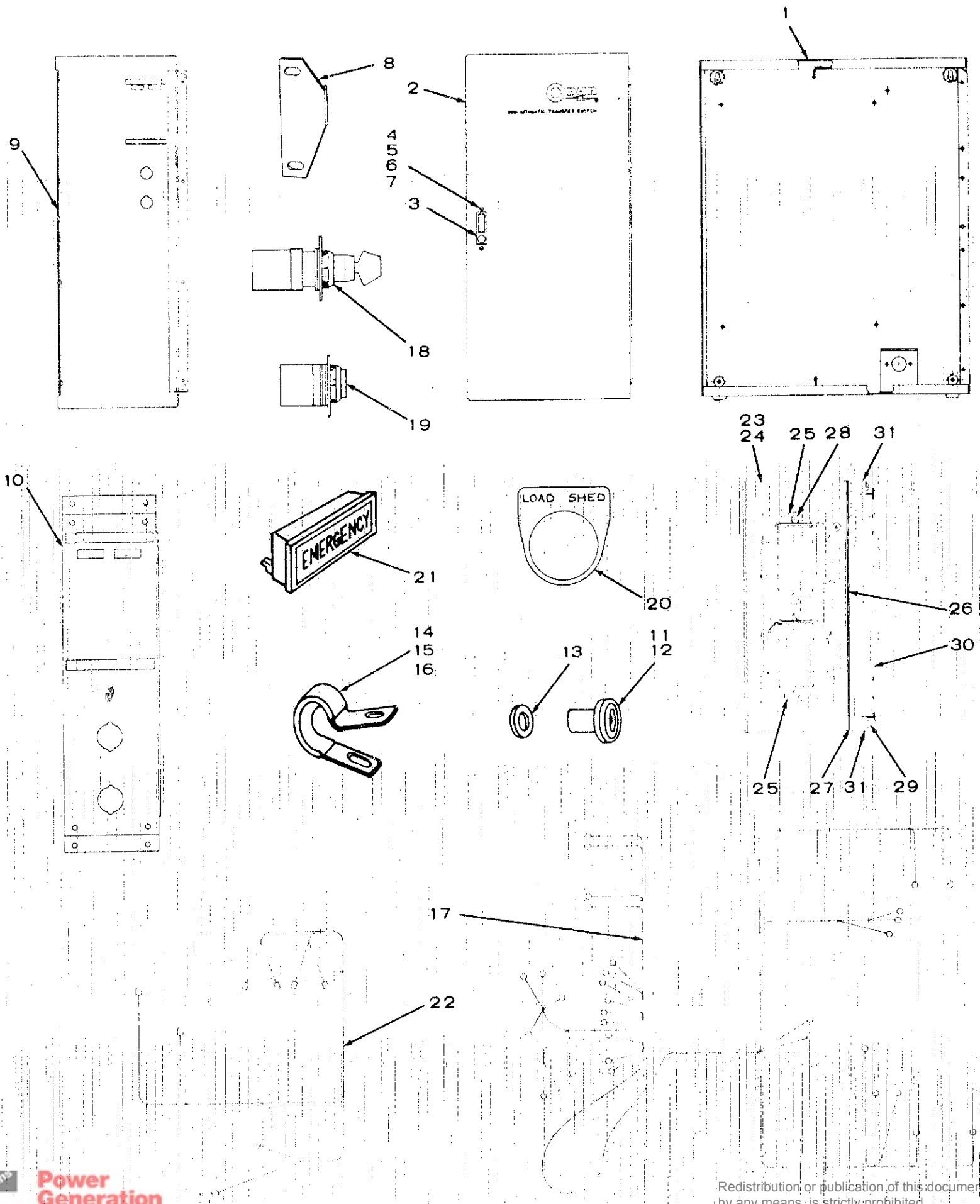
CABINET ASSEMBLY (AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,K,L



OT ☐ - ☐ / _____

- * - 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



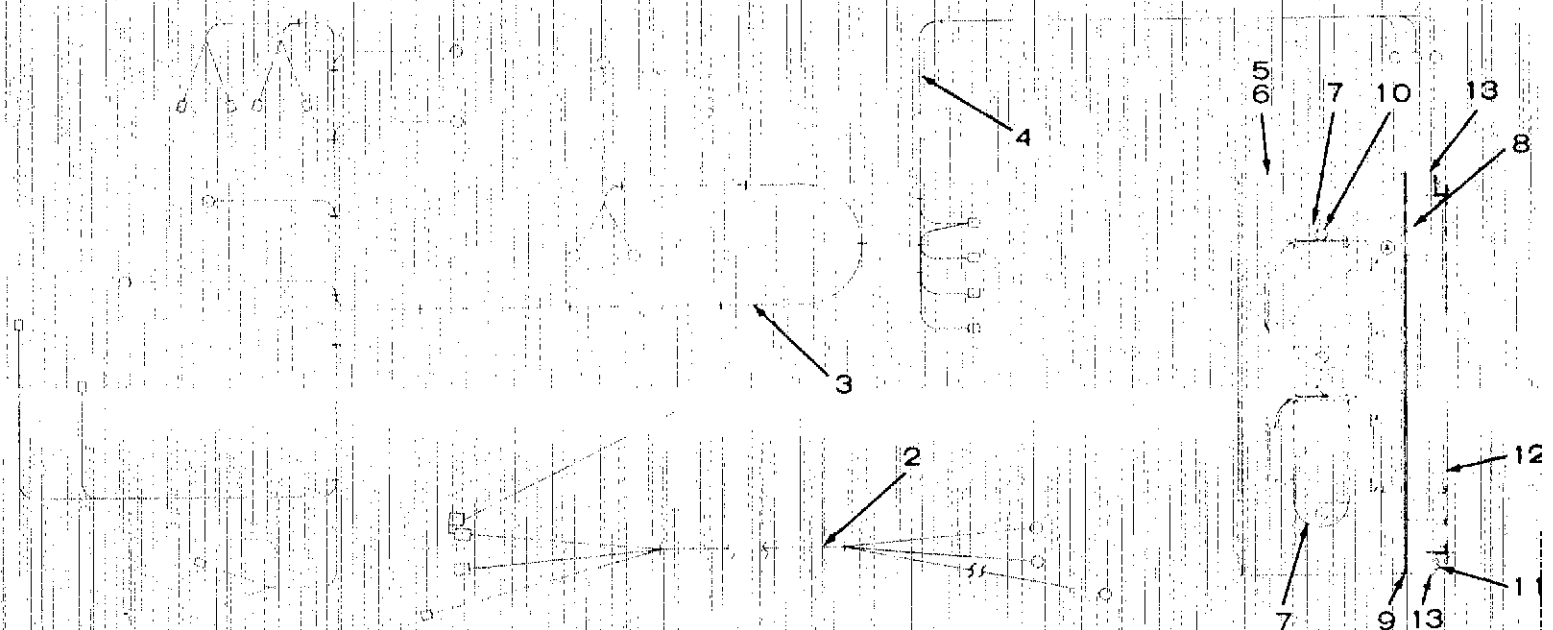
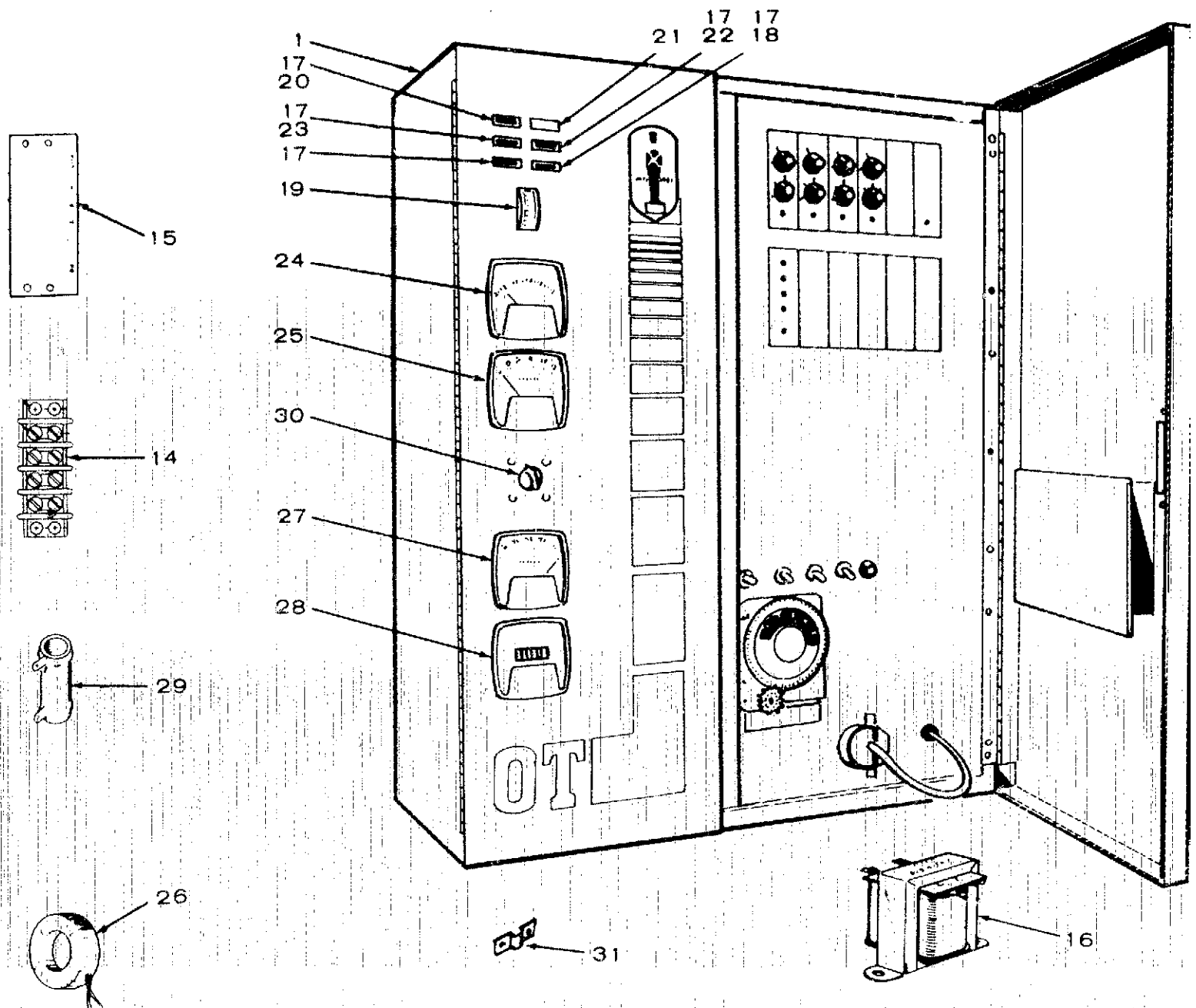
CABINET ASSEMBLY (NON-AUTOMATIC) - 2 AND 3 POLE TRANSFER SWITCH COMBINATIONS D,H,R,S

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,S		
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

METER-LAMP COMBINATION PANELS (1 THROUGH 18)



METER-LAMP COMBINATION PANELS (1 THROUGH 18)

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	PANEL, METER						
	301-4306	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			5	Panel Combinations 1,5,9,12
			Panel Combinations 9,10,11,12 (Includes Terminal Block)	18	322-0107	1	Lamp, Indicator - Over Crank
	338-0884	1	1 Phase Units	19	302-0807	1	Ammeter, Charge (DC) - Panel Combinations 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16
	338-0886	1	3 Phase Units - Voltage Codes 4,5D,54,55D	20	322-0146	1	Lamp, Indicator - Normal - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-0887	1	3 Phase Units - Voltage Codes 4X,9X,54X,59X	21	322-0147	1	Lamp, Indicator - Emergency - Panel Combinations 2,4,6,8,10,12,14,16,18
	338-1046	1	3 Phase Units - Voltage Codes 7,57	22	LAMP, INDICATOR - LOW BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
			Panel Combinations 13,14,15,16		322-0114	1	Units with 12 Volt Starting Circuit (D and E)
	338-0883	1	1 Phase Units		322-0126	1	Units with 24 Volt Starting Circuit (C)
	338-0883	1	3 Phase Units - Voltage Codes 4,5D,4X,9X,54,55D,54X,59	23	LAMP, INDICATOR - HIGH BATTERY VOLTAGE - PANEL COMBINATIONS 3,4,7,8,11,12,15,16		
	338-1257	1	3 Phase Units - Voltage Codes 7,57		322-0115	1	Units with 12 Volt Starting Circuit (D and E)
3	338-0661	1	Panel Combinations 17,18		322-0127	1	Units with 24 Volt Starting Circuit (C)
4	338-0659	1	Harness, Wiring - Lamps (Battery Volts) - Panel Combinations 3,4,7,8,11,12,15,16	24	VOLTMETER (AC) - PANEL COMBINATIONS 5,6,7,8,9,10,11,12		
5	315-0374	1	Transformer Assembly - Step Down (Includes Parts Marked *) - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0421	1	Voltage Codes 3,4,5D,53,54,55D
6	301-3499	1	*Bracket, Transformer Mounting - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0422	1	Voltage Codes 4X,7,54X,57
7	315-0375	2	*Transformer, Step Down - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0423	1	Voltage Codes 9X,59X
8	332-1468	1	*Block, Terminal - Panel Combinations 2,4,6,8,10,12,14,16,18	25	AMMETER (AC) - PANEL COMBINATIONS 9,10,11,12		
9	332-1663	1	*Strip, Marker - Panel Combinations 2,4,6,8,10,12,14,16,18		302-0408	2	Voltage Codes 3,53
					302-0408	1	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				26	TRANSFORMER, CURRENT - PANEL COMBINATIONS 9,10,11,12		
					302-0078	2	Voltage Codes 3,53
					302-0078	3	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X
				27	METER, FREQUENCY - PANEL COMBINATIONS 9,10,11,12		
							50 Hertz
					302-0895	1	Voltage Codes 53,55D,57
					302-0894	1	Voltage Code 54
					302-0893	1	Voltage Codes 54X,59X
							60 Hertz
					302-0811	1	Voltage Codes 3,5D,7

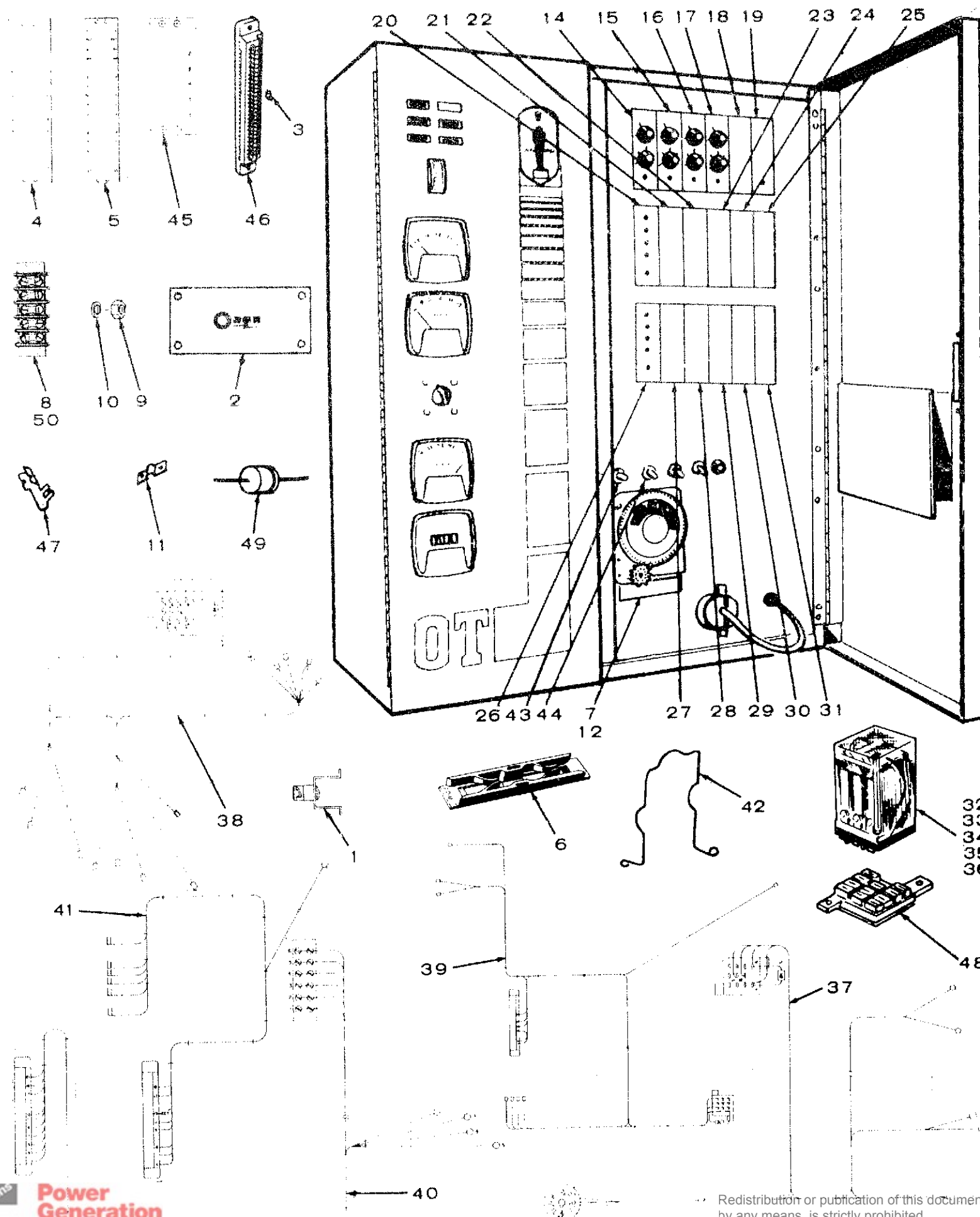
METER-LAMP COMBINATION PANELS (1 THROUGH 18)

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

* - Parts included in 315-0374 Transformer Assembly

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



MODULAR CONTROL ACCESSORY PANEL

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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	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		300-0937	1	Module, Blank - Accessory Groups 10,15,20,25
	332-2114	10	Begin Spec B Voltage Codes 4,5D,4X,7,9X, 54,55D,54X,57,59X	19	MODULE, BATTERY CHARGER - Accessory Groups 11,12,13, 14,21,22,23,24 (See Separate Groups for Components)		
	332-1276	14	Spec A		300-0793	1	Units with 12 Volt Starting Circuit (D & E)
	332-2114	14	Begin Spec B		300-0794	1	Units with 24 Volt Starting Circuit (C)
4	332-1469	1	Strip, Marker (1 through 12)				
5	332-1699	1	Strip, Marker (H, Remote, B+, Grd, 1 through 11 and 53)				
6	GUIDE, PRINTED CIRCUIT BOARD - ACCESSORY GROUPS 14,15,24,25		Spec A				
	323-0814	12	Begin Spec B				
	323-1084	12					
7	301-3487	1	Plate, Cover - Exerciser clock opening in panel - Accessory Groups 10,11,15, 20,21,25				
8	332-0604	1	Block, Terminal (5 Place) - Accessory Groups 10,11,15, 20,21,25				

MODULAR CONTROL ACCESSORY PANEL

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

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

MODULAR CONTROL ACCESSORY PANEL

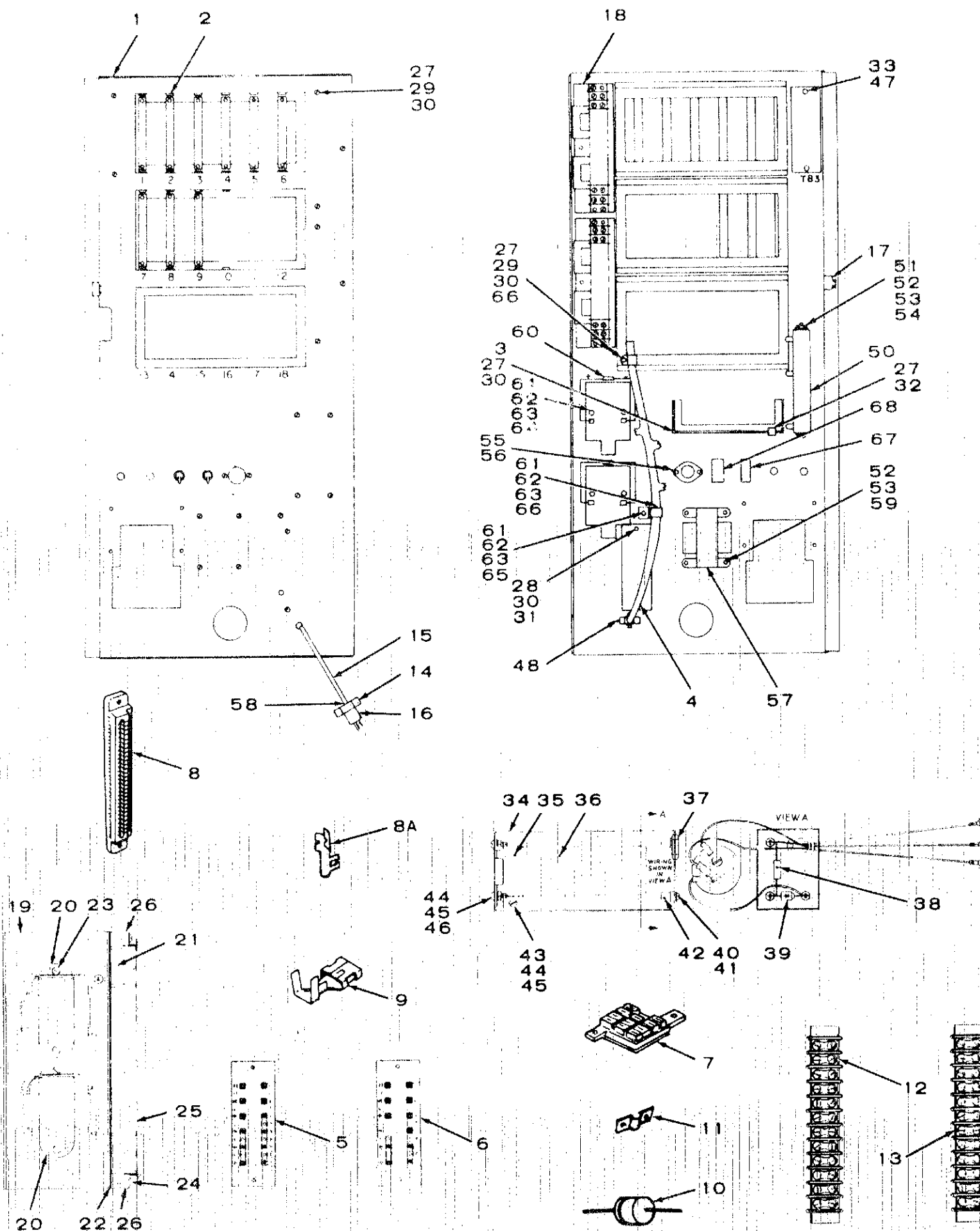
ACCESSORY GROUPS 10,11,12,13,14,15,20,21,22,23,24,25

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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				
	300-1395	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	11	332-1043	3	*Δ†□#□■Jumper, Terminal
	300-1521	1	Voltage Codes 7,57	12	332-1468	1	*Δ†□#□■Block, Terminal (12 Place)
			Accessory Groups 11,12,13,14,15	13	332-0795	1	*Δ†□#□■Block, Terminal (16 Place)
	300-1133	1	Voltage Codes 3,53	14	301-3765	2	Plate, Panel Interlock
	300-1134	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X	15	503-0679	1	Hose, Insulating
	300-1406	1	Voltage Codes 7,57	16	323-0901	1	Plug, Line Disconnect
	300-1433	1	Accessory Group 20	17	405-1872	1	Clip, Door
	300-1431	1	Accessory Groups 21,22,23,24,25	18	TRANSFORMER ASSEMBLY, STEP DOWN (Includes Parts Marked **)		
1	301-3777	1	Panel Swinging	315-0374	1	Units with Voltage Codes 3,53 (1-Phase)	
2	323-0814	20	Guide, PC Board				
3	307-1157	2	Spring, Relay Holddown (All Except Accessory Groups 20,21,22,23,24,25)	315-0374	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
4	HARNESS, WIRING - MAIN - NOT ILLUSTRATED			19	**BRACKET, TRANSFORMER MOUNTING		
			Accessory Group 10	301-3499	1	Units with Voltage Codes 3,53 (1-Phase)	
	338-1022	1	Voltage Codes 3,53 (Includes Parts Marked *)				
	338-1021	1	Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X (Includes Parts Marked Δ)	301-3499	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
	338-1085	1	Voltage Codes 7,57 (Includes Parts Marked †)				
			Accessory Groups 11,12,13,14,15	20	TRANSFORMER, STEP DOWN		
	338-0776	1	Voltage Codes 3,53 (Includes Parts Marked £)	315-0375	2	Units with Voltage Codes 3,53 (1-Phase)	
	338-0777	1	Voltage Codes 4,5D,4X,9X,54,55D,54X,59X (Includes Parts Marked □)	315-0375	4	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
	338-1034	1	Voltage Codes 7,57 (Includes Parts Marked #)				
	338-1045	1	Accessory Group 20 (Includes Parts Marked Ø)	21	**TERMINAL, BLOCK		
	338-1043	1	Accessory Groups 21,22,23,24,25 (Includes Parts Marked ■)	332-1468	1	Units with Voltage Codes 3,53 (1-Phase)	
5	332-1486	1	*Δ†□#□■Block, Terminal	332-1468	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
6	332-1487	1	*Δ†□#□■Block, Terminal				
7	323-0765	2	*Δ†□#□■Socket, Relay	22	**STRIP, MARKER		
8	HOUSING, PRINTED CIRCUIT BOARD			332-1663	1	Units with Voltage Codes 3,53 (1-Phase)	
			Accessory Group 10	332-1663	2	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
	332-1271	6	Voltage Codes 3,53				
	332-1271	9	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X	23	**SCREW, MACHINE - PAN HEAD - CROSS RECESSED (#6-32 x 1/4")		
	332-1271	8	†Voltage Codes 7,57	815-0387	4	Units with Voltage Codes 3,53 (1-Phase)	
			Accessory Groups 11,12,13,14,15	815-0387	8	Units with Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X (3-Phase)	
	332-1271	7	£Voltage Codes 3,53				
	332-1271	9	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57	24	**SCREW, MACHINE - ROUND HEAD (#6-32 x 3/4")		
	332-1271	8	ØAccessory Group 20	812-0066	2	Units with Voltage Codes 3,53 (1-Phase)	
	332-1271	9	■Accessory Groups 21,22,23,24,25	812-0066	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)	
8A	TERMINAL, PRINTED CIRCUIT BOARD			25	**COVER, PROTECTIVE		
			Accessory Group 10	332-1651	1	Units with Voltage Codes 3,53 (1-Phase)	
	332-1269	37	Voltage Codes 3,53	332-1651	2	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)	
	332-1269	47	ΔVoltage Codes 4,5D,4X,9X, 54,55D,54X,59X				
	332-1269	47	†Voltage Codes 7,57	26	**WASHER, INSULATOR		
			Accessory Groups 11,12,13,14,15	508-0074	2	Units with Voltage Codes 3,53 (1-Phase)	
	332-1269	41	£Voltage Codes 3,53	508-0074	4	Units with Voltage Codes 4,5D,4X,7,54,55D,54X,57,59X (3-Phase)	
	332-1269	51	#□Voltage Codes 4,5D,4X,9X, 54,55D,54X,59X,7,57				
	332-1269	48	ØAccessory Group 20	27	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
	332-1269	51	■Accessory Groups 21,22,23,24,25	812-0061	8	Units with Voltage Codes 3,53 (1-Phase)	

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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	812-0061	13	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X	48	332-1969	1	Clamp, Cable
			Accessory Groups 11,12,13,14,15	50	353-0046	1	Resistor (6-Ohm, 75 Watt) - Tapped - Accessory Groups 11,12,13,14,15,21,22,23, 24,25
	812-0061	12	Units with Voltage Codes 3,53				
	812-0061	13	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X	51	813-0116	1	Screw, Machine - Round Head (#10-32 x 6-1/2") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	812-0061	9	Accessory Group 20				
	812-0061	11	Accessory Groups 21,22,23, 24,25	52	870-0053	5	Nut, Hex (#10-32) - Accessory Groups 11,12,13, 14,15,21,22,23,24,25
28	812-0066	2	Screw, Machine - Round Head (#6-32 x 3/4")	53	853-0008	5	Washer, Lock - External Lock (#10) - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
29	NUT, HEX - MACHINE (#6-32)		Accessory Group 10				
	860-0006	10	Units with Voltage Codes 3,53	54	304-0006	2	Washer, Centering - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	860-0006	15	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X	55	321-0178	1	Holder, Fuse - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
			Accessory Groups 11,12,13,14,15				
	860-0006	12	Units with Voltage Codes 3,53	56	FUSE		
	860-0006	15	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X		321-0180	1	Accessory Groups 11,12,13 14,15 (2 Ampere)
			Accessory Group 20		321-0110	1	Accessory Groups 21,22,23, 24,25 (1 Ampere)
	860-0006	11	Accessory Group 20	57	315-0379	1	Transformer, Battery Charger - Accessory Groups 11,12,13, 14,15,21,22,23,24,25
	860-0006	13	Accessory Groups 21,22,23, 24,25				
30	WASHER, LOCK - EXTERNAL TOOTH (#6)		Accessory Group 10	58	503-0721	1	Bushing, Rubber - Accessory Groups 11,12,13,14,15
	853-0003	10	Units with Voltage Codes 3,53	59	813-0099	4	Screw, Machine - Round Head (#10-32 x 7/16") - Accessory Groups 11,12,13,14,15,21, 22,23,24,25
	853-0003	15	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X				
			Accessory Groups 11,12,13,14,15	60	357-0029	2	Diode - Accessory Groups 20,21,22,23,24,25
	853-0003	12	Units with Voltage Codes 3,53	61	812-0082	5	Screw, Machine - Round Head (#8-32 x 3/4") - Accessory Groups 20,21,22,23,24,25
	853-0003	15	Units with Voltage Codes 4.5D,4X,7,9X,54,55D,54X, 57,59X	62	860-0008	5	Nut, Hex (#8-32) - Accessory Groups 20,21,22,23,24,25
			Accessory Group 20	63	853-1005	5	Washer, Lock - External Lock (#8) - Accessory Groups 20,21,22,23,24,25
	853-0003	13	Accessory Groups 21,22,23,24,25				
31	332-1485	2	Spacer, Terminal Board	64	307-1537	2	Relay, Power - Accessory Groups 20,21,22,23,24,25
32	332-0050	1	Clip, Wire	65	301-4235	1	Bracket, Harness - Accessory Groups 20,21,22,23,24,25
33	300-1440	1	Control, Start Suppressions (Includes Parts Marked ***)	66	332-0052	2	Clip, Wire - Accessory Groups 20,21,22,23,24,25
34	301-4316	1	***Bracket, Starter Suppression	67	308-0321	1	Switch, Test Transfer
35	356-0070	1	***Clamp, Capacitor Mounting	68	308-0322	1	Switch, Selector
36	356-0069	1	***Capacitor, Electrolytic				
37	508-0005	1	***Grommet, Rubber				
38	352-0159	1	***Resistor (.33-Ohm, 3 Watt)				
39	357-0028	1	***Diode				
40	812-0026	3	***Screw, Machine - Round Head (#4-40 x 3/16")				
41	850-0011	3	***Washer, Lock - Spring (#4)				
42	332-1998	3	***Terminal, Stud - Tapped				
43	812-0063	1	***Screw, Machine - Round Head (#6-32 x 1/2")				
44	853-0003	3	***Washer, Lock - External Tooth (#6)				
45	860-0006	3	***Nut, Hex - Machine (#6-32)				
46	812-0061	2	***Screw, Machine - Round Head (#6-32 x 3/8")				
47	808-0008	4	Screw, Tapping - Round Head				

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

This technical drawing is an exploded view of a mechanical assembly, likely a control panel or a specialized electronic device. The main components are shown in their relative positions as they would be assembled. The assembly includes a large rectangular frame (1) with internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69). The components are numbered 1 through 69, with some numbers appearing multiple times to indicate different instances or views of the same part. The diagram shows various mechanical parts, including a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69), a large rectangular frame (1), internal compartments (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44

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

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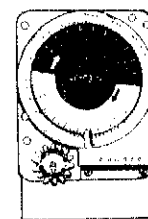
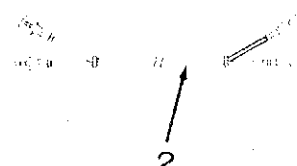
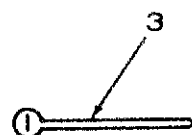
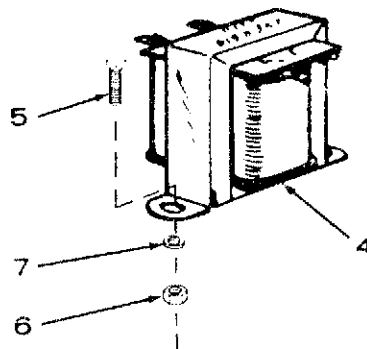
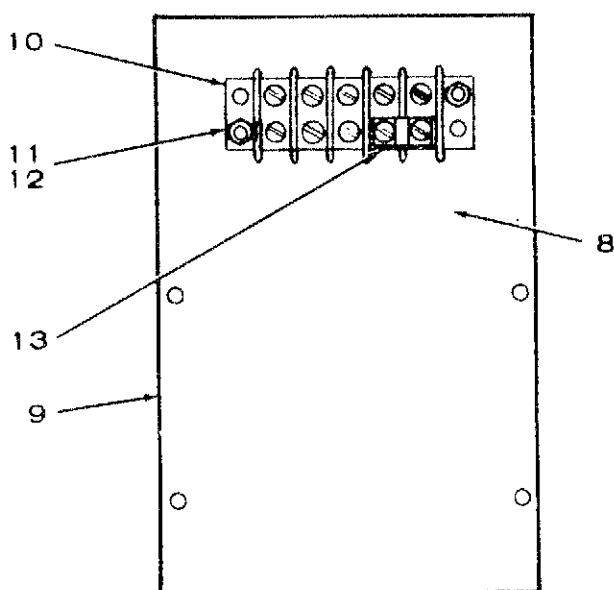
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	PANEL ASSEMBLY, SWINGING - COMPLETE				332-1269	46	■Accessory Groups 21,22,23,24,25
			Accessory Group 10	9	332-1280	12	*Δ†£□#□■Terminal, Relay Socket
300-1632	1		Voltage Codes 3,53	10	357-0023	3	*Δ†£□#Rectifier,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

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Cummins
Power Generation

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

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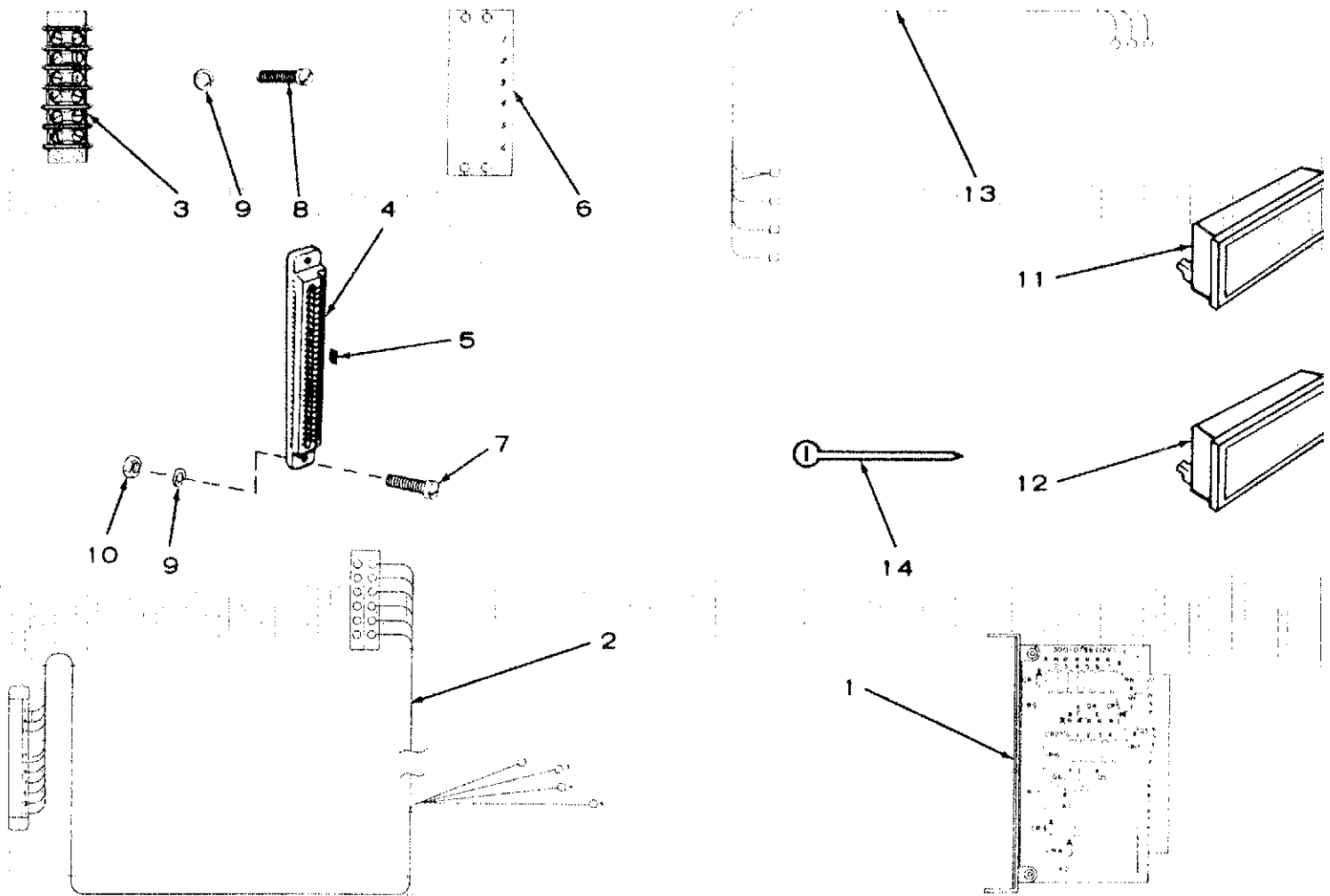
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, EXERCISER CLOCK (COMPLETE) - 60 Hertz		
	307-1652	1	Accessory Groups 10,20, Voltage Codes 3,4,5D,7
	307-1648	1	Accessory Groups 10,20, Voltage Codes 4X,9X (Includes Leads)
	307-1650	1	Accessory Groups 11,15,21,25, Voltage Codes 3,4,4X,5D,7,9X
1	SWITCH,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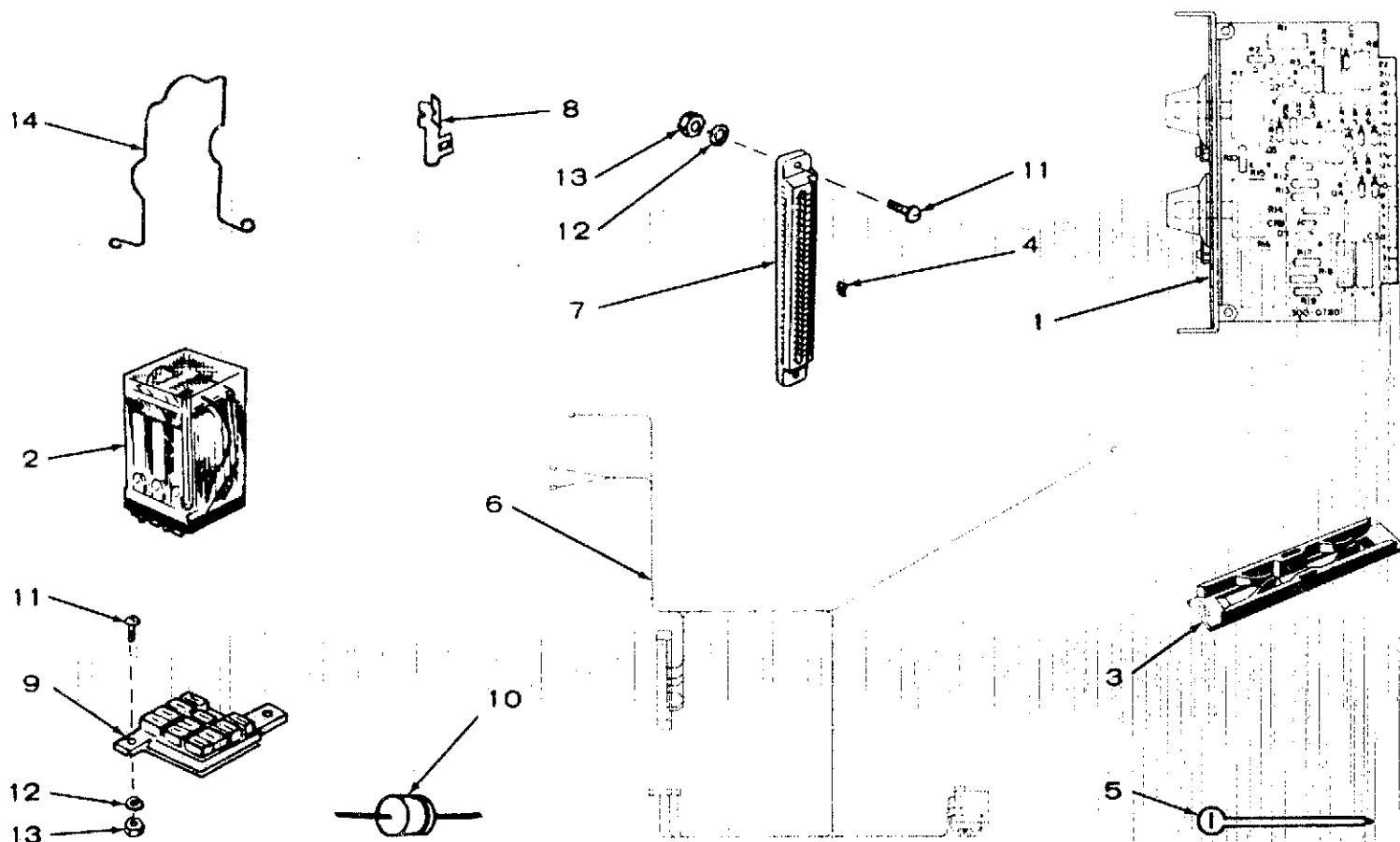


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, BATTERY VOLTAGE (Complete)		
	300-1019	1	12 Volt
	300-1022	1	24 Volt
1	SENSOR, BATTERY VOLTAGE (See Separate Group for Components)		
	300-0796	1	12 Volt
	300-0797	1	24 Volt
2	338-0658	1	Harness, Wiring (Includes Terminal Block and Printed 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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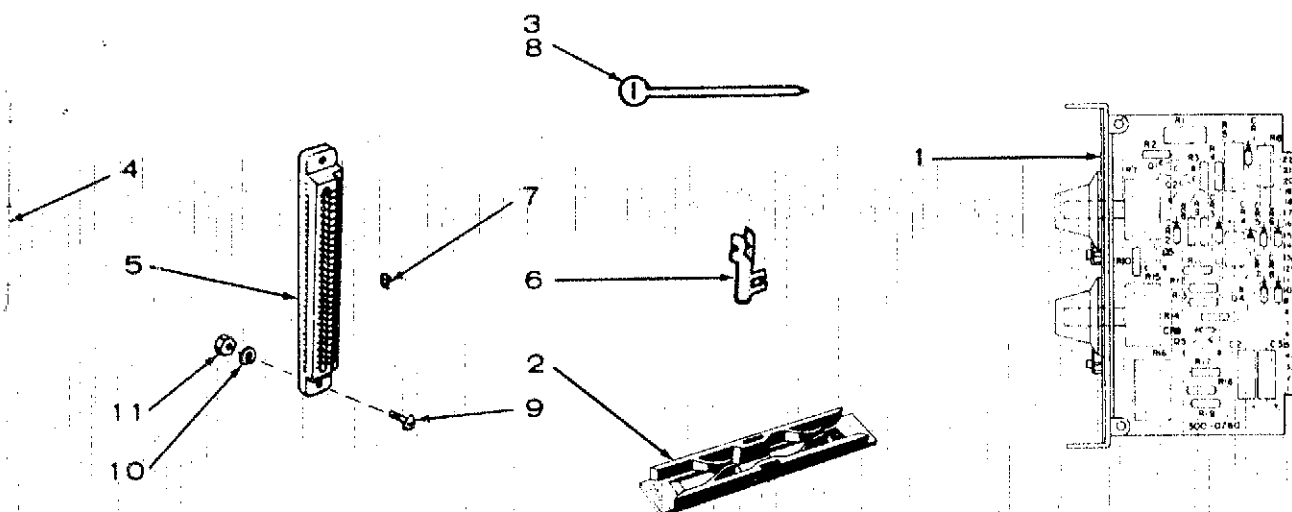
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR KIT, OVER VOLTAGE (Complete)		
	300-1020	1	1 Phase Units
	300-1021	1	3 Phase Units
1	SENSOR, VOLTAGE		
	300-0780	1	1 Phase Units
	300-0780	3	3 Phase Units
2	307-1058	1	Relay
3	GUIDE, PRINTED CIRCUIT BOARD		
			Spec A
	323-0814	2	1 Phase Units
	323-0814	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		
	532-2107	1	1 Phase Units
	332-2107	3	3 Phase Units
8	*TERMINAL, PRINTED CIRCUIT BOARD		
	332-2108	6	1 Phase Units
	332-2108	18	3 Phase Units
9	323-0765	1	*Socket, Relay
10	357-0004	1	*Rectifier, Diode
11	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		
	812-0061	4	1 Phase Units
	812-0061	8	3 Phase Units
12	WASHER, LOCK - ET (#6)		
	853-0008	4	1 Phase Units
	853-0008	8	3 Phase Units
13	NUT, HEX - MACHINE (#6-32)		
	860-0006	4	1 Phase Units
	860-0006	8	3 Phase Units
14	307-1157	1	Spring, Relay Hold-down

* - Parts Included in Wiring Harness Assembly

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

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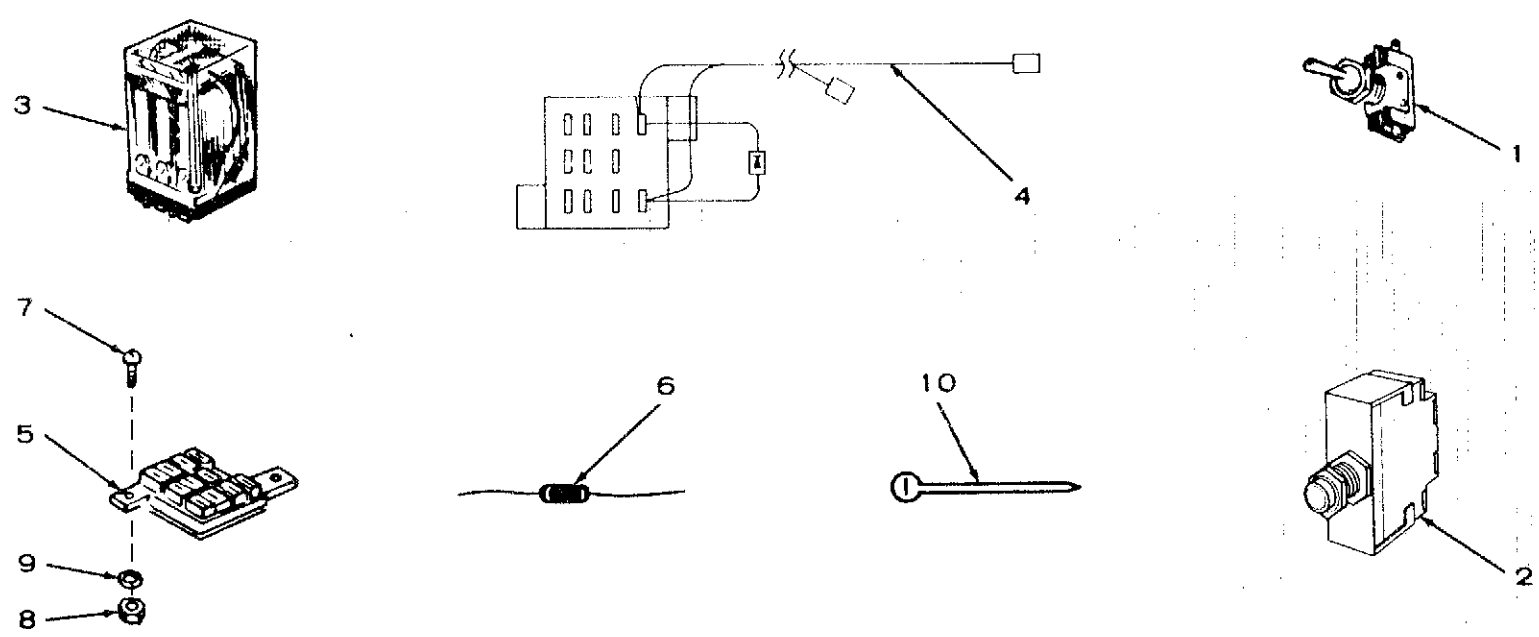
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	KIT, TIME DELAY - PREHEAT (Complete)		
	300-1800	1	Spec A
	300-1107	1	Begin Spec B
1	300-1072	1	Module, Preheat Time Delay (See Separate Group for Components)
2	GUIDE, PRINTED CIRCUIT BOARD		
	323-0814	2	Spec A
	323-1084	2	Begin Spec B
3	332-0942	12	Tie,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

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

† - Parts Included in 338-1268 Wiring Harness.
* - Parts Included in 338-0770 Wiring Harness.

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

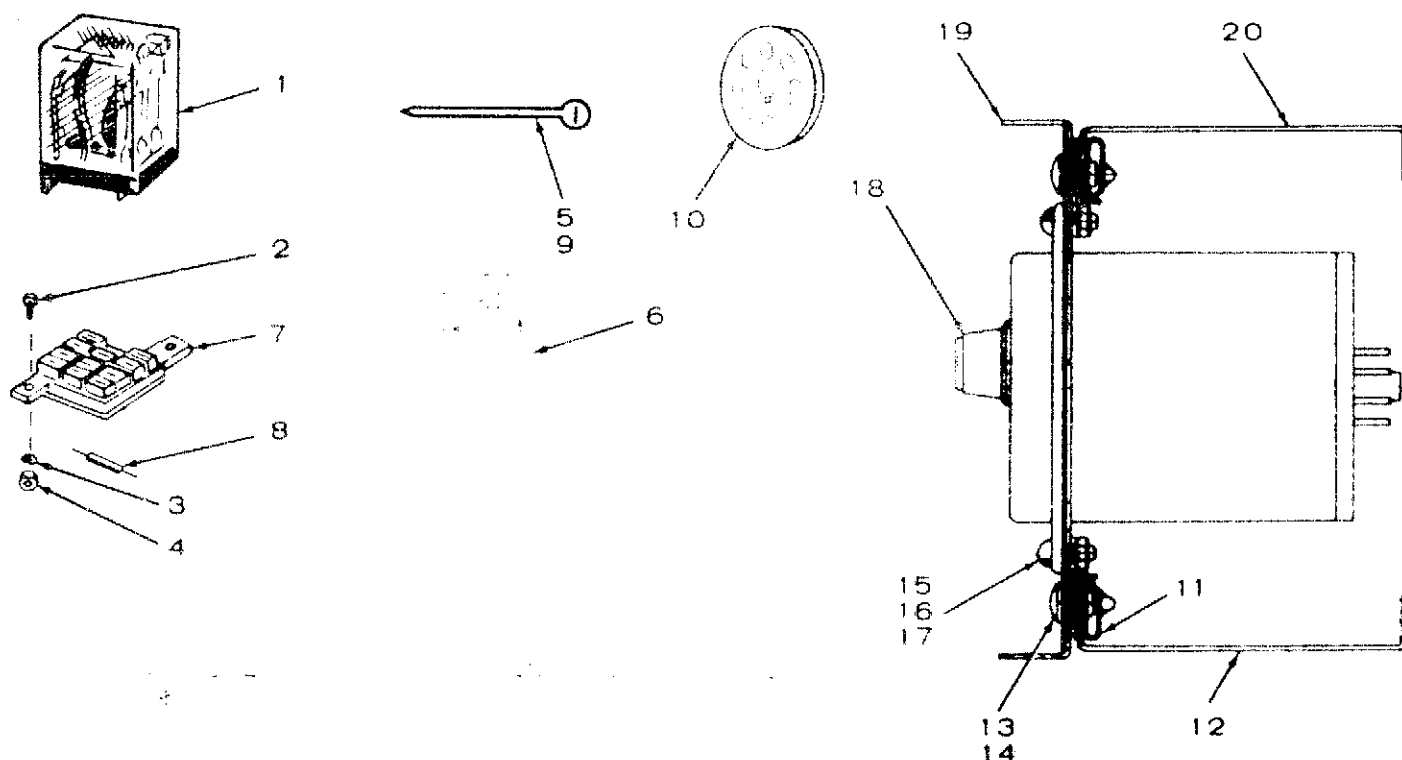
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	308-0343	1	Switch Package - Retransfer (Complete)	6	357-0004	1	Wiring Harness)
1	308-0321	1	Switch, Manual and Automatic				Rectifier, Diode (Part of Wiring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

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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	307-1285	1	Time Delay Package - 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)

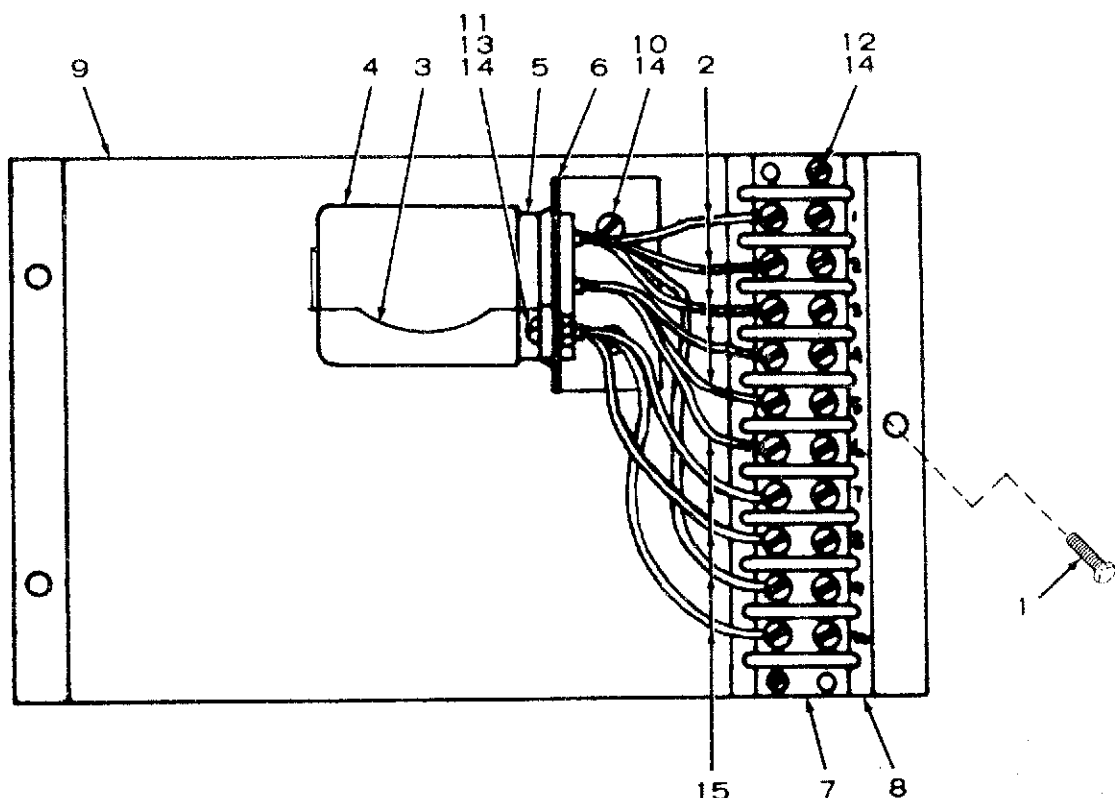
* - Parts Included in 307-1285 Time Delay Package

• - Parts Included in 338-0677 Wiring Harness.

† - Parts Included in 307-1199 Time Delay Package

AUXILIARY STARTING CONTACTS RELAY ASSEMBLY - OPTIONAL WIRE IN

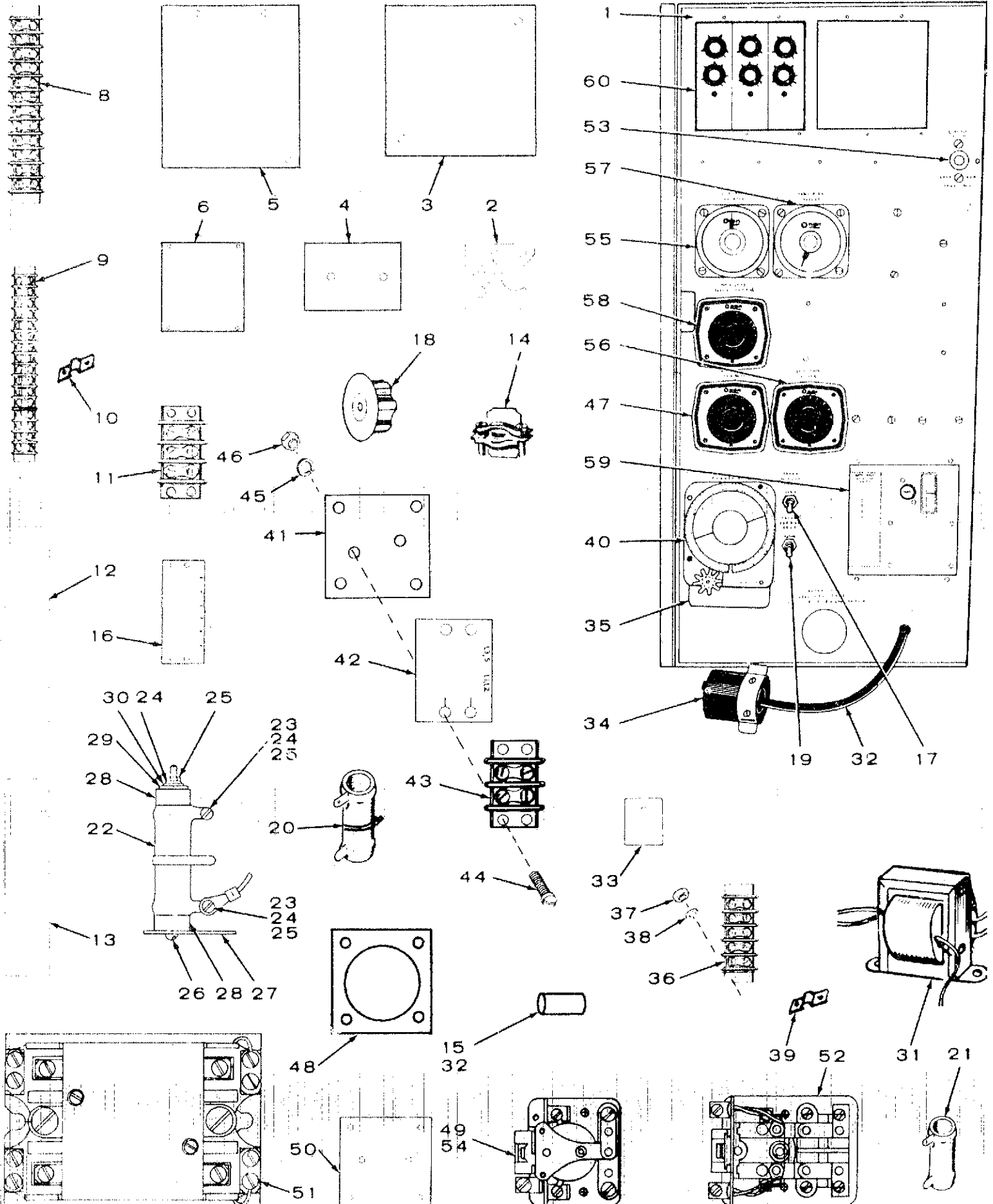
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	RELAY PACKAGE, AUXILIARY STARTING CONTACTS		
	307-1320	1	For Units with 12 Volt Starting Circuit (D & E)
	307-1321	1	For Units with 24 Volt Starting Circuit (C)
1	815-0387	3	Screw, Machine - Pan Head Cross 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



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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	301-3825	1	Panel, Swinging		850-0020	3	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
2	405-1872	2	Clip, Door		850-0020	6	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
3	301-2259	1	Plate, Cover (3-5/8 x 3-5/8")	25	NUT, HEX - MACHINE (#6-32)		
4	301-3842	1	Plate, Cover (2.31 x 1.62") (Not used on Units with 3 Wire Starting Circuit)		860-0006	3	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
5	301-4087	2	Plate, Cover (5 x 6")		860-0006	6	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
6	301-4141	1	Plate, Cover (6-1/2 x 6")	26	SCREW, MACHINE - ROUND HEAD (#6-32 x 3")		
7	HARNESS, WIRING - MAIN - NOT ILLUSTRATED				812-0140	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
			Voltage Codes 3,4,5D,53,54,55D		812-0140	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
	338-0923	1	2 Wire Starting Circuit (C & D) (Includes Parts Marked *)	27	INSULATOR, RESISTOR		
	338-0921	1	3 Wire Starting Circuit (E) (Includes Parts Marked Δ)		304-0292	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
			Voltage Codes 4X,9X,54X,59X		304-0292	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
			2 Wire Starting Circuit (C & D) (Includes Parts Marked †)	28	INSULATOR, RESISTOR		
	338-0922	1	3 Wire Starting Circuit (E) (Includes Parts Marked £)		508-0161	2	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
			Voltage Codes 7,57		508-0161	4	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
	338-1091	1	2 Wire Starting Circuit (C & D) (Includes Parts Marked □)	29	WASHER, FIBER		
	338-1058	1	3 Wire Starting Circuit (E) (Includes Parts Marked #)		506-0015	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
8	332-1468	1	#□£†Δ*Block, Terminal (12 Place)		508-0015	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
9	332-0795	1	#□£†Δ*Block, Terminal (16 Place)	30	WASHER, FLAT (172" ID x 3/8" OD x 1/32" Thk)		
10	332-1043	2	#□£†Δ*Jumper, Terminal		526-0048	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)
11	332-0611	1	£Block, Terminal (3 Place)		526-0048	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)
12	332-1699	1	Strip, Marker (Remote, B+, Gnd, 1 thru 11, 55)	31	TRANSFORMER		
13	332-1469	1	Strip, Marker (1 thru 12)		315-0153	1	Units with Voltage Codes 4X,54X (480 Volt)
14	332-1969	1	Clamp, Cable		315-0365	1	Units with Voltage Codes 9X,59X (600 Volt)
15	503-0721	1	Bushing, Rubber	32	503-0801	1	Hose, Insulating
16	332-1968	1	Strip, Marker (2 and 3) - Voltage Codes 4X,9X,54X,59X	33	301-3765	2	Plate, Panel Interlock
				34	323-0901	1	Plug, Line Disconnect
				35	301-3487	1	Plate, Cover - Exerciser
17	SWITCH, SELECTOR						Clock Opening - Accessory Groups 51,52
	308-0138	1	Units with 2 Wire Starting Circuits (C & D)	36	332-0604	1	Terminal, Block (5 Place) - Accessory Groups 51,52
	308-0193	1	Units with 3 Wire Starting Circuits (E)	37	860-0006	2	Nut, Hex (#6-32) - Accessory Groups 51,52
18	303-0076	1	Knob, Switch - Units with 3 Wire Starting Circuits	38	850-0020	2	Washer, Lock - Spring (#6) - Accessory Groups 51,52
19	308-0069	1	Switch, Test-Transfer	39	332-1043	1	Jumper, Terminal Block - Accessory Groups 51,52
20	RESISTOR			40	CLOCK, PLANT EXERCISER		
	304-0131	1	Voltage Codes 3,4,5d,7,53,54,55D,57 (750-ohm, 25 Watt)				Voltage Codes 3,4,5D,7,53,54,55D,57
	304-0563	1	Voltage Codes 4X,9X,54X,59X (2500-ohm, 25 Watt)		307-1103	1	60 Hertz
21	353-0055	1	Resistor (3-ohm, 10 Watt) - Units with 3 Wire Starting (E)		307-1105	1	50 Hertz
22	RESISTOR (500-ohm, 25 Watt)						Voltage Codes 4X,9X,54X,59X
	304-0094	1	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)		307-1102	1	60 Hertz
	304-0094	2	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)		307-1104	1	50 Hertz
23	SCREW, MACHINE - ROUND HEAD (#6-32 x 1/4")			41	PLATE, RELAY BYPASS		
	812-0059	2	Accessory Group 54 (Except Voltage Codes 4X,9X,54X,59X)		301-3837	3	Accessory Group 51
	812-0059	4	Accessory Group 55 (Except Voltage Codes 4X,9X,54X,59X)		301-3837	2	Accessory Groups 52,53,54
24	WASHER, LOCK - SPRING (#6)			42	STRIP, MARKER		
							Accessory Group 51
					332-1821	1	2 Place (L,3,5-L1L2) - Voltage Codes 3,4,5D,7,53,54,55D,57

Power

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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
					307-0708	1	Voltage Codes 9X,59X
	332-1824	1	2 Place (L1,2-L2) - Voltage Codes 4X,9X,54X,59X	52	RELAY, INTERPOSING - LINE		
	332-1820	1	2 Place (7,8-6)		307-1083	1	Voltage Codes 3,5D,7,53,55D,57
	332-1822	1	3 Place (L3,5-L1,L2) - Voltage Codes 3,53		307-1113	1	Voltage Codes 4,54
			Accessory Groups 55 - Voltage Groups 2,3,52,53		307-0663	1	Voltage Codes 4R,9X,54X,59X
43	BLOCK, TERMINAL		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")		Accessory Group 51		307-1119	1	Voltage Code 4X
	812-0065	8	Voltage Codes 3,53		307-1425	1	Voltage Code 9X
	812-0065	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		307-1081	2	Voltage Code 7
			Accessory Groups 52,53,54	55	RELAY, TIME DELAY ON RETRANSFER - ACCESSORY GROUPS 52,53,54,55		
	812-0065	6	Voltage Codes 3,53		307-0724	1	Voltage Codes 3,4,5D,7,53,54,55D,57
	812-0065	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		307-0722	1	Voltage Codes 4X,9X,54X,59X
	812-0065	2	Accessory Group 55, Voltage Codes 3,53	56	RELAY, TIME DELAY ON STARTING - ACCESSORY GROUPS 54,55		
45	WASHER, LOCK - EIT (#6)		Accessory Group 51		307-1158	1	Voltage Codes 3,4,5D,7,53,54,55D,57
	856-0001	8	Voltage Codes 3,53		307-1159	1	Voltage Codes 4X,9X,54X,59X
	856-0001	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	57	RELAY, TIME DELAY ON STOPPING - ACCESSORY GROUPS 55		
			Accessory Groups 52,53,54				Voltage Codes 3,4,5D,7,53,54,55D,57
	856-0001	6	Voltage Codes 3,53		307-0724	1	2 Wire Starting Circuit (C & D)
	856-0001	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X		307-1419	1	3 Wire Starting Circuit (E)
	856-0001	2	Accessory Group 55, Voltage Codes 3,53		307-0722	1	2 Wire Starting Circuit (C & D)
46	NUT, HEX - MACHINE (#6-32)		Accessory Group 51		307-1417	1	3 Wire Starting Circuit (E)
	860-0006	8	Voltage Codes 3,53	58	307-1450	1	Relay Package, Time Delay on Pre-Heat - For 3 Wire Starting Circuit (E) - Optional Wire In
	860-0006	6	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59X	59	CHARGER PACKAGE, BATTERY - OPTIONAL WIRE IN (See Separate Groups for Components)		
			Accessory Groups 52,53,54		305-0562	1	120 Volt AC Input, 12 Volt DC - 300 Milliampere Output
	860-0006	6	Voltage Codes 3,53		305-0563	1	208/240 Volt AC Input, 12 Volt DC - 300 Milliampere Output
	860-0006	4	Voltage Codes 4,5D,4X,7,9X,54,55D,54X,57,59		305-0568	1	208/240 Volt AC Input, 12 Volt DC - 2 Ampere Output
	860-0006	2	Accessory Group 55, Voltage Codes 3,53		305-0570	1	208/240 Volt AC Input, 24 Volt DC - 2 Ampere Output
47	RELAY, TIME DELAY ON TRANSFER - ACCESSORY GROUP 55				305-0569	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output
	307-1144	1	Voltage Codes 3,4,5D,7,53,54,55D,57		305-0571	1	480/600 Volt AC Input, 12 Volt DC - 2 Ampere Output
	307-1162	1	Voltage Codes 4,54X	60	SENSOR PACKAGE, VOLTAGE - OPTIONAL WIRE IN (See Separate Groups for Components)		
	307-1424	1	Voltage Codes 9,59X		300-1365	1	Over or Under Voltage (120 Volt, 1 Phase)
48	MOUNTING PACKAGE - RELAY				300-1366	1	Over and Under Voltage (120 Volt, 1 Phase)
	301-3315	1	Accessory Group 54				
	301-3315	2	Accessory Group 55				
49	RELAY, START-STOP - ACCESSORY GROUPS 51,52,53						
	307-1081	1	Voltage Codes 3,5D,7,53,55D,57				
	307-1114	1	Voltage Codes 4,54				

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

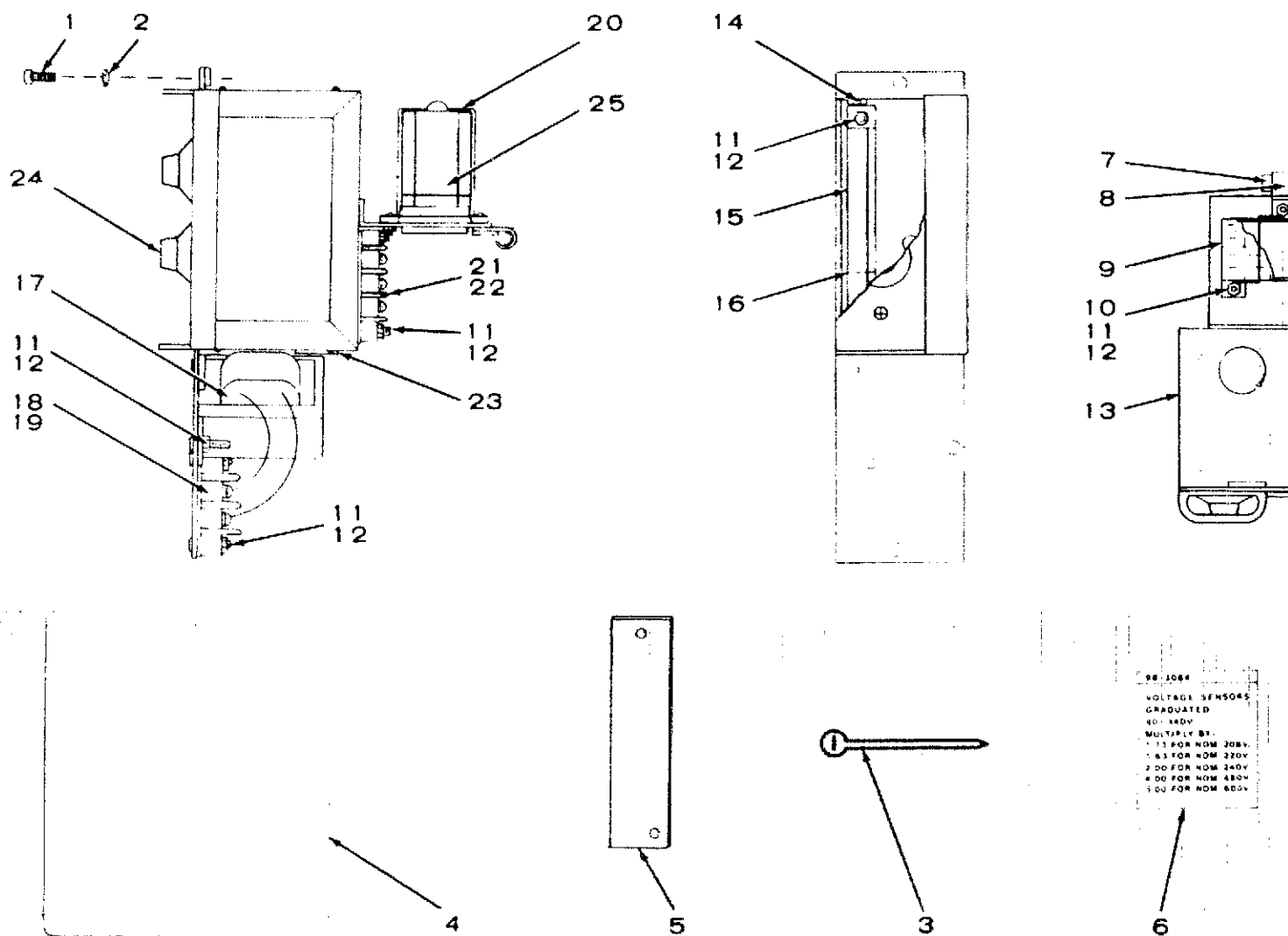
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-1367	1	Over or Under Voltage (208-240 Volt, 1 Phase)		300-1376	1	Over Voltage (480 Volt, 3 Phase)
	300-1368	1	Over and Under Voltage (208-240 Volt, 1 Phase)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

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

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

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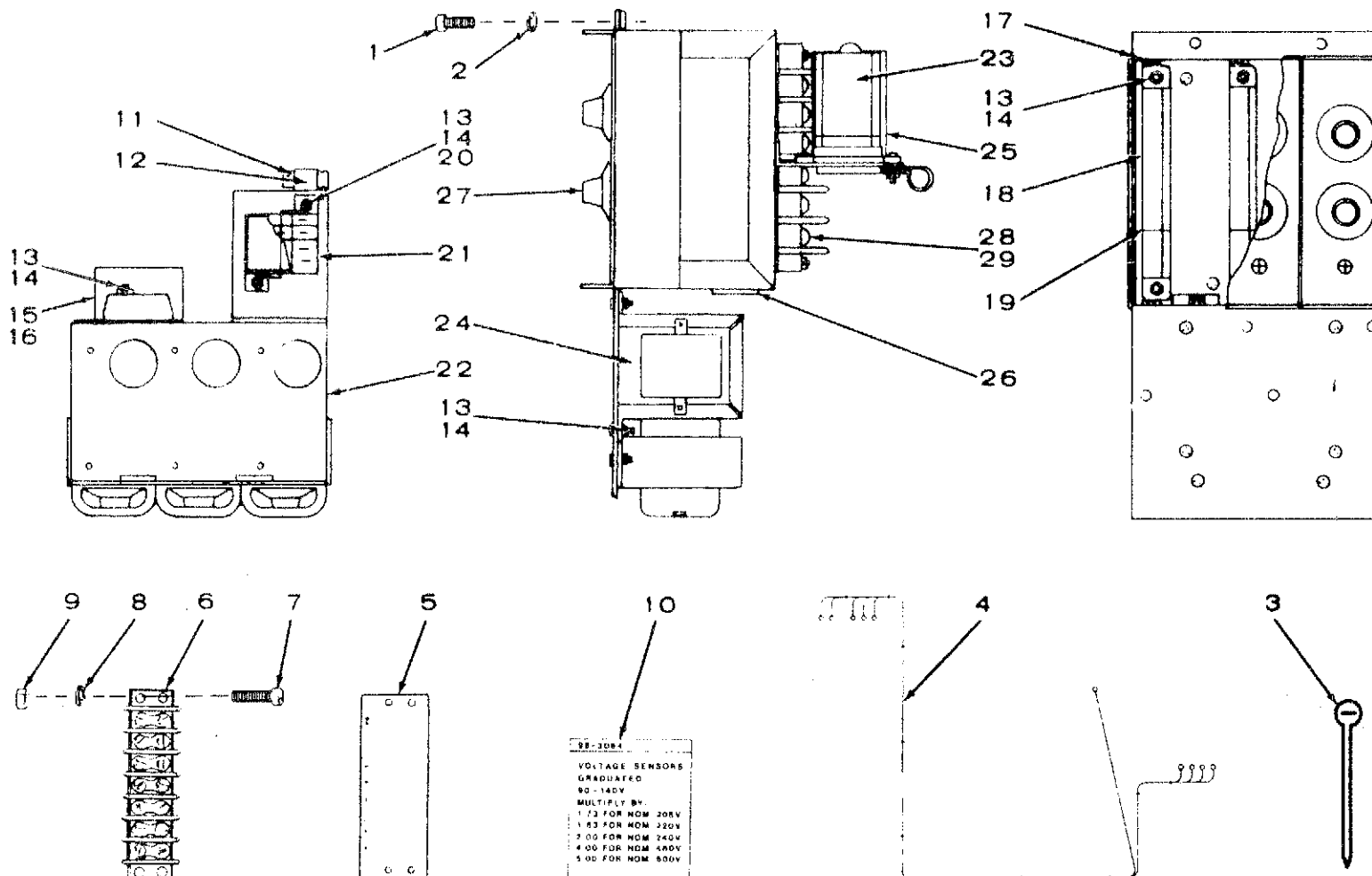
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)		
	300-1365	1	Over or Under (1)
	300-1366	1	Over and Under (1)
	300-1367	1	Over or Under (3)
	300-1368	1	Over and Under (3)
1	812-0061	3	Screw, Machine - Round Head (#6-32 x 3/8")
2	853-0003	3	Washer, Lock - ET (#6)
3	332-0942	6	Tie, Cable
4	338-1004	1	Harness, Wiring
5	301-4088	1	Plate, Cover (Packages with Over or Under Voltage Sensors)
6	98-3084	1	Decal, Voltage Sensors Graduated Voltage
7	356-0067	1	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)
25	307-1131	1	Relay

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

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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SENSOR PACKAGE, VOLTAGE - COMPLETE (Optional Wire In)		
	300-1372	1	Under Voltage - 4,5D Volt, 3 Phase
	300-1373	1	Over Voltage - 4,5D Volt, 3 Phase
	300-1374	1	Over and Under Voltage - 4,5D Volt, 3 Phase
	300-1369	1	Under Voltage - 4, 3 Phase
	300-1370	1	Over Voltage - 220 Volt, 3 Phase
	300-1371	1	Over and Under Voltage - 4, 3 Phase
	300-1375	1	Under Voltage - 4X, 3 Phase
	300-1376	1	Over Voltage - 4X, 3 Phase
	300-1377	1	Over and Under Voltage - 4X, 3 Phase
	300-1378	1	Under Voltage - 9X, 3 Phase
	300-1379	1	Over Voltage - 9X, 3 Phase
	300-1380	1	Over and Under Voltage - 9X, 3 Phase
1	SCREW, MACHINE - ROUND HEAD (#6-32 x 3/8")		

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

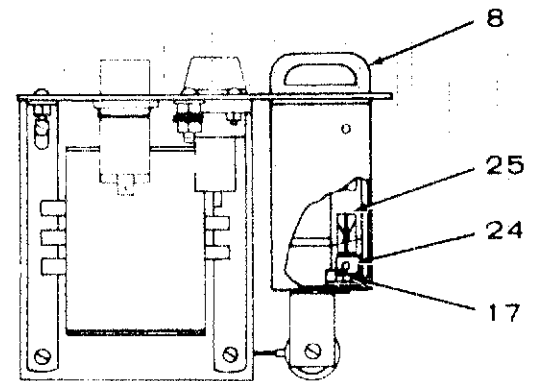
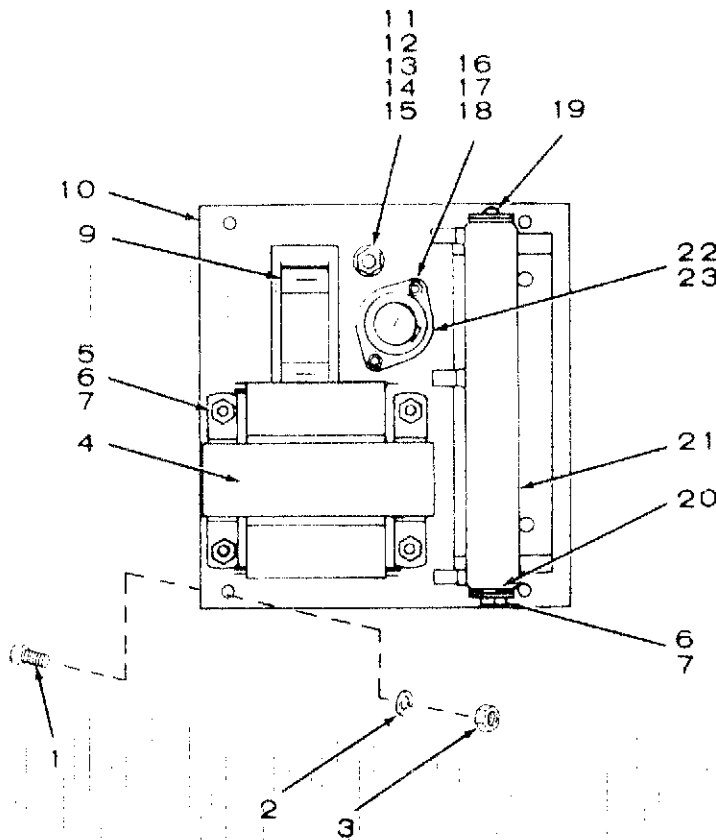
VOLTAGE SENSOR PACKAGE - OPTIONAL WIRE IN - ACCESSORY GROUPS 51,52,53,54,55 (THREE PHASE)

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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		
21	SOCKET, RELAY 323-0765	1	Over or Under Voltage Sensors		300-0780	3	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

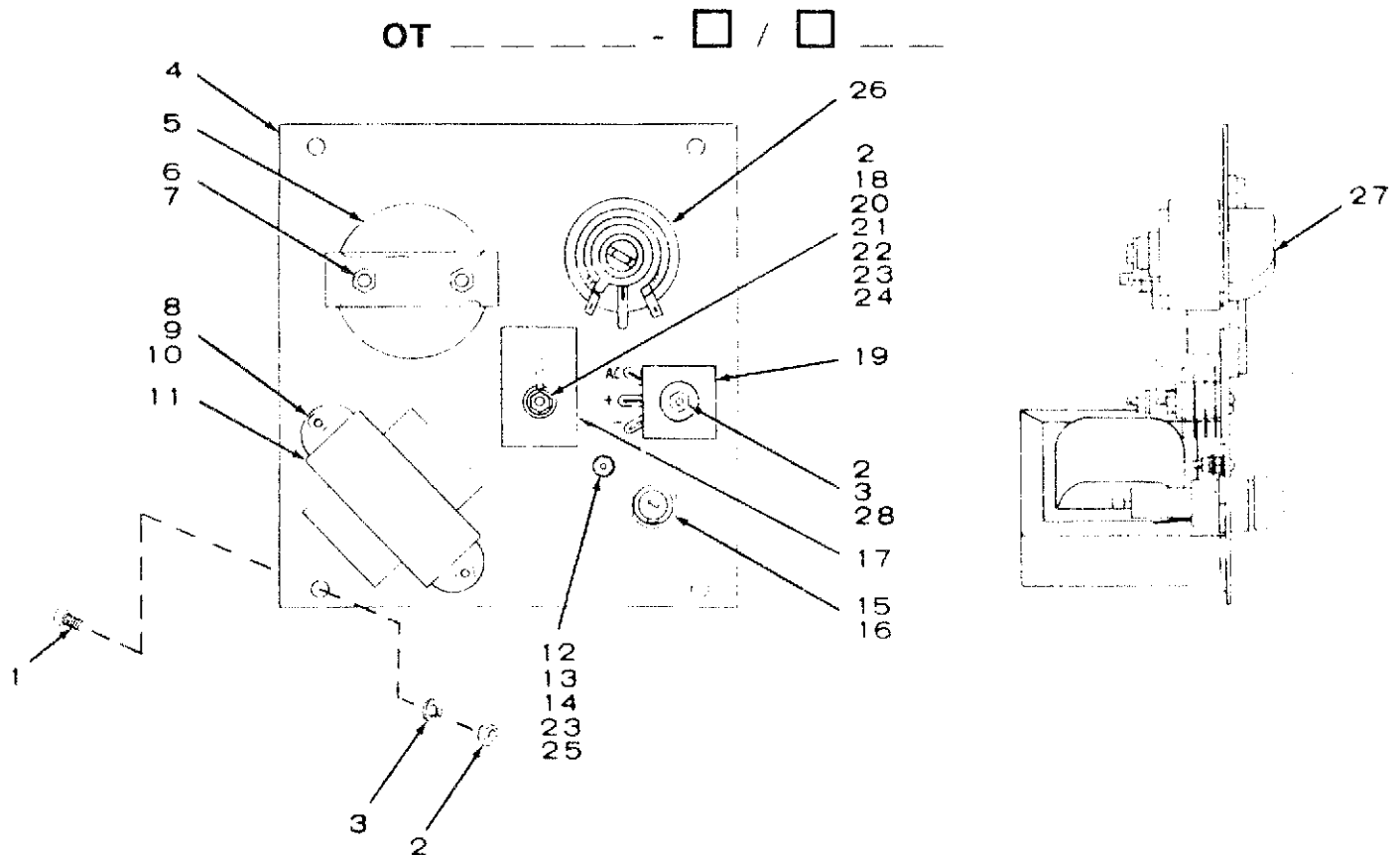
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REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	CHARGER PACKAGE, BATTERY (2 Ampere) - OPTIONAL WIRE IN:		
	305-0568	1	3,4,5D AC Input, 12 Volt DC Output
	305-0570	1	3,4,5D AC Input, 24 Volt DC Output
	305-0569	1	4X, 9X AC Input, 12 Volt DC Output
	305-0571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

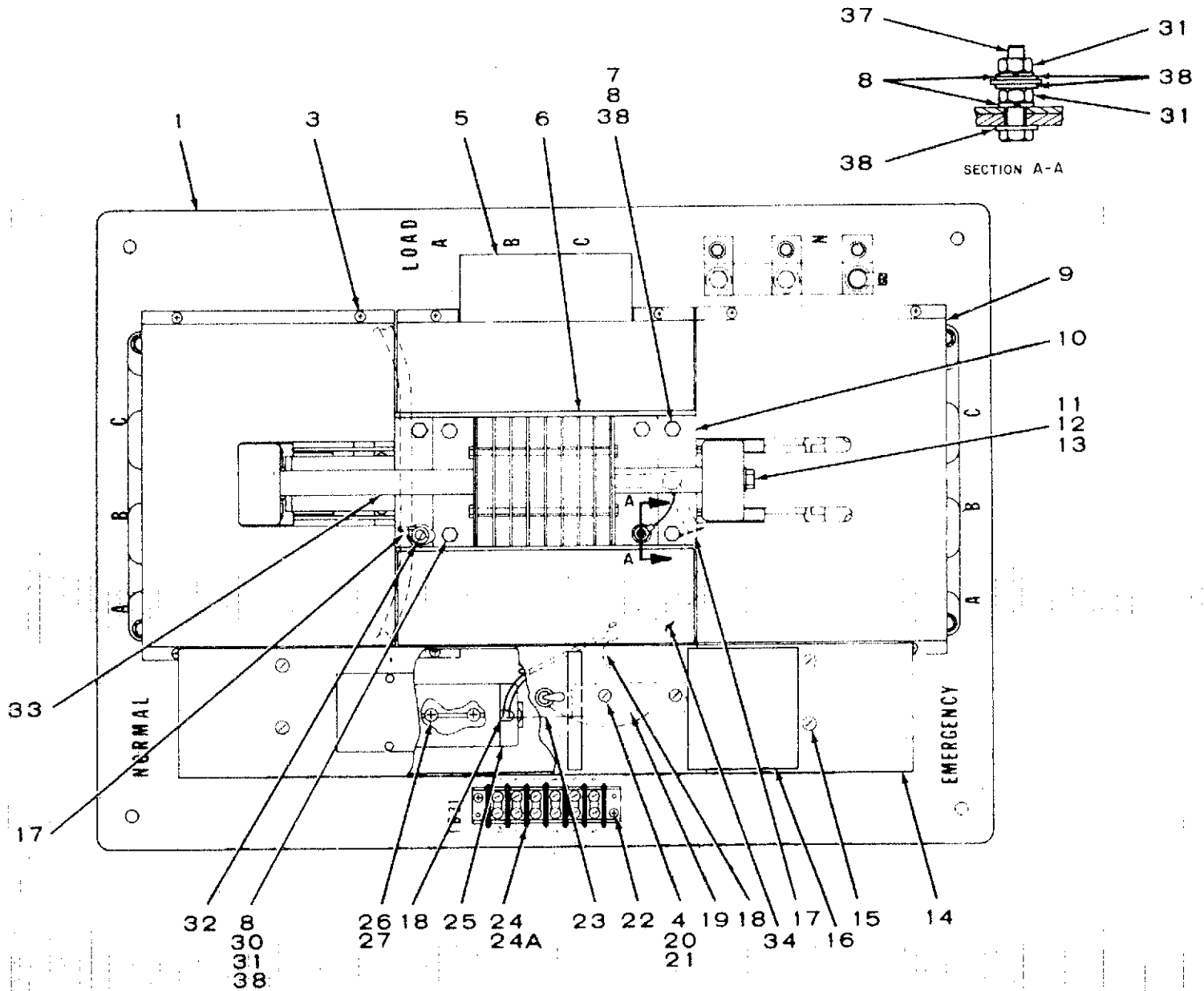
BATTERY CHARGER (300 MILLIAMPERE) PACKAGE (OPTIONAL WIRE IN) - ACCESSORY GROUPS 51,52,53,54,55



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 - ET (#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	526-0046	2	Washer, Flat (1/2" 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)				
			2 Pole				
			Specs A and B				
			Standard				
306-0710		1	110/120 Volt, 50/60 Hertz	306-1717		1	110/120 Volt, 50/60 Hertz
306-0712		1	208/220/240 Volt, 50/60 Hertz	306-1718		1	208/220 Volt, 50/60 Hertz
306-0714		1	347 Volt, 50/60 Hertz	306-1718		1	240 Volt, 60 Hertz
306-0716		1	440/480 Volt, 50/60 Hertz	306-1719		1	240 Volt, 50 Hertz
			Rear Connected	306-1720		1	347 Volt, 50/60 Hertz
306-0722		1	110/120 Volt, 50/60 Hertz	306-1721		1	440/480 Volt, 50/60 Hertz
306-0724		1	208/220/240 Volt, 50/60 Hertz				Rear Connected
306-0726		1	347 Volt, 50/60 Hertz	306-1722		1	110/120 Volt, 50/60 Hertz
306-0728		1	440/480 Volt, 50/60 Hertz	306-1723		1	208/220 Volt, 50/60 Hertz
			Begin Spec C				
			Standard				

NOTE: To determine correct voltage, refer to your nameplate and model identification in front of manual. Redistribution or publication of this document by any means, is strictly prohibited.

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
	306-1723	1	240 Volt, 60 Hertz		306-0797	1	440/480 Volt, 50/60 Hertz
	306-1724	1	240 Volt, 50 Hertz				Begin Spec C
	306-1725	1	347 Volt, 50/60 Hertz		306-1364	1	110/120 Volt, 50/60 Hertz
	306-1726	1	440/480 Volt, 50/60 Hertz		306-1365	1	208/220/240 Volt, 50/60 Hertz
			3 Pole		306-1366	1	347 Volt, 50/60 Hertz
			Specs A and B		306-1367	1	440/480 Volt, 50/60 Hertz
			Standard	7	SCREW, CAP - HEX HEAD		
	306-0698	1	110/120 Volt, 50/60 Hertz		800-0016	4	Specs A and B (1/4-20 x 3-1/4")
	306-0700	1	208/220/240 Volt, 50/60 Hertz		800-0018	4	Begin Spec C (1/4-20 x 3-3/4")
	306-0702	1	347 Volt, 50/60 Hertz	8	WASHER, LOCK - SPRING (1/4")		
	306-0704	1	440/480 Volt, 50/60 Hertz		850-0040	4	Specs A and B
			Rear Connected		850-0040	5	Begin Spec C
	306-0686	1	110/120 Volt, 50/60 Hertz	9	306-0515	1	Cover, Contacts
	306-0688	1	208/220/240 Volt, 50/60 Hertz	10	306-1363	1	Plate, Motor Mounting
	306-0690	1	347 Volt, 50/60 Hertz	11	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
	306-0692	1	440/480 Volt, 50/60 Hertz	12	526-0115	2	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)
			Begin Spec C	13	ROD END, ACTUATOR		
			Standard		306-0286	2	Specs A and B
	306-1707	1	110/120 Volt, 50/60 Hertz		306-1040	2	Begin Spec C
	306-1708	1	208/220 Volt, 50/60 Hertz	14	306-0641	1	Cover, Auxiliary Switch (Includes Toggle Switch and Leads)
	306-1708	1	240 Volt, 60 Hertz	15	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
	306-1709	1	240 Volt, 50 Hertz	16	98-3093	1	Label, Instruction
	306-1710	1	347 Volt, 50/60 Hertz	17	TIE, CABLE		
	306-1711	1	440/480 Volt, 50/60 Hertz		332-0942	10	Specs A and B
			Rear Connected		332-0821	1	Begin Spec C
	306-1712	1	110/120 Volt, 50/60 Hertz	18	332-2211	3	Terminal
	306-1713	1	208/220 Volt, 50/60 Hertz	19	BREAKER, CIRCUIT		
	306-1713	1	240 Volt, 60 Hertz		320-0612	1	110/120 Volt, 50/60 Hertz
	306-1714	1	240 Volt, 50 Hertz		320-0609	1	208/220/240 Volt, 50/60 Hertz
	306-1715	1	347 Volt, 50/60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
	306-1716	1	440/480 Volt, 50/60 Hertz		320-0606	1	440/480 Volt, 50/60 Hertz
1	SWITCHING ASSEMBLY (See Separate Group for Components)			20	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
			Specs A and B	22	815-0464	2	Screw, Machine - Round Head W/IT (#8-32 x 1")
	306-0681	1	2 Pole, 1 Phase - Standard	23	336-2787	1	Lead - 347/440/480 Volt, 50/60 Hertz
	306-0683	1	2 Pole, 1 Phase - Rear Connected	24	338-1041	1	Harness, Wiring (Includes Terminal Block)
	306-0677	1	3 Pole, 3 Phase - Standard	24A	332-1541	1	Block, Terminal (Part of Wiring Harness)
	306-0679	1	3 Pole, 3 Phase - Rear Connected	25	CAPACITOR		
			Begin Spec C				Specs A and B
	306-1686	1	2 Pole, 1 Phase - Standard		312-0209	1	110/120 Volt, 50/60 Hertz
	306-1687	1	2 Pole, 1 Phase - Rear Connected		312-0204	1	208/220/240 Volt, 50/60 Hertz
	306-1684	1	3 Pole, 3 Phase - Standard		312-0204	2	347 Volt, 50/60 Hertz
	306-1685	1	3 Pole, 3 Phase - Rear Connected		312-0203	2	440/480 Volt, 50/60 Hertz
			Begin Spec C				Begin Spec C
	306-0686	1	2 Pole, 1 Phase - Standard		312-0209	1	110/120 Volt, 50/60 Hertz
	306-0687	1	2 Pole, 1 Phase - Rear Connected		312-0204	1	208/220/240 Volt, 50/60 Hertz
	306-1684	1	3 Pole, 3 Phase - Standard		312-0204	2	347 Volt, 50/60 Hertz
	306-1685	1	3 Pole, 3 Phase - Rear Connected		312-0204	2	440/480 Volt, 50/60 Hertz
3	815-0496	12	Screw, Machine - Round Head W/IT (#8-32 x 3/4")	26	SCREW, MACHINE - FLAT HEAD (#10-32 x 3/4")		
5	306-1377	1	Cover, Load		815-0469	2	110/120/208/220/240 Volt, 50/60 Hertz
6	ACTUATOR, LINEAR				815-0469	4	347/440/480 Volt, 50/60 Hertz
			Specs A and B				
	306-0794	1	110/120 Volt, 50/60 Hertz				
	306-0799	1	208/220/240 Volt, 50/60 Hertz				
	306-0798	1	347 Volt, 50/60 Hertz				

NOTE: To determine correct voltage, refer to your nameplate and model identification. Redistribution of this document by any means, is strictly prohibited.

TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE)

OT _____ - ☐ / _____ ☐

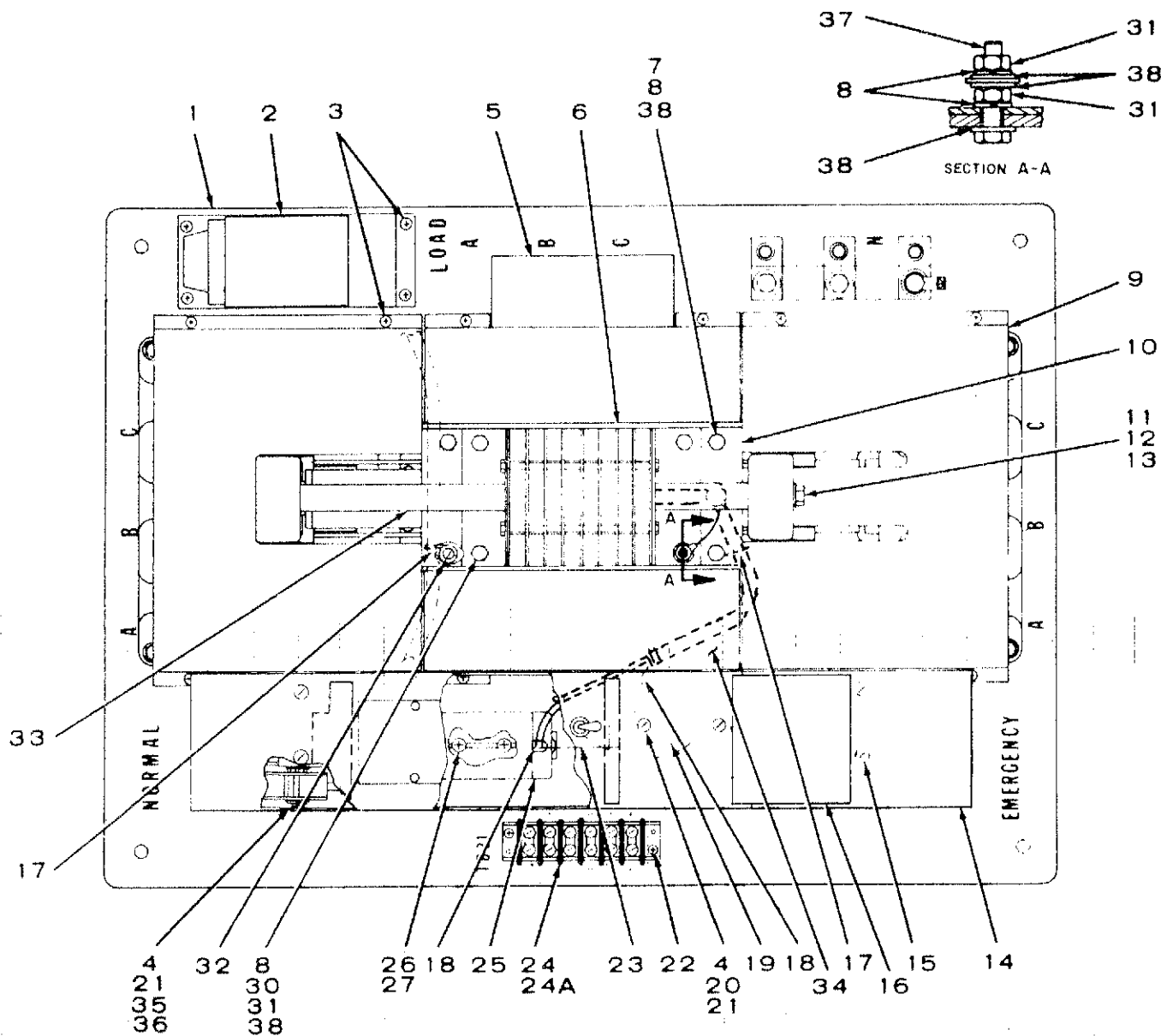
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
27	WASHER, LOCK - EXTERNAL TOOTH (#10)		
	855-0008	2	110/120/208/220-240 Volt, 50/60 Hertz
	855-0008	4	347/440/480 Volt, 50/60 Hertz
30	800-0544	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
31	862-0001	4	Nut, Hex (1/4-20)
32	SPACER, ACTUATOR MOUNTING		
	306-0254	4	Specs A and B
	306-1359	4	Begin Spec C

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
33	ROD, ACTUATOR		
	306-0434	1	Specs A and B
	306-1683	1	Begin Spec C
34	306-0516	1	Cover, Actuator
37	800-0008	1	Screw, Cap - Hex Head (1/4-20 x 1-1/4") - Begin Spec C)
38	526-0018	10	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk) - Begin Spec C)

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)

OT _____ - ☐ / _____ ☐



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	SWITCH ASSEMBLY, TRANSFER (Complete)						
			2 Pole	306-1759	1		240 Volt, 50 Hertz
			Specs A and B	306-1760	1		347 Volt, 50/60 Hertz
			Standard	306-1761	1		440/480 Volt, 50/60 Hertz
306-1271	1		208/220 Volt, 50/60 Hertz				Rear Connected
306-1271	1		240 Volt, 60 Hertz	306-1762	1		110/120 Volt, 50/60 Hertz
306-1272	1		240 Volt, 50 Hertz	306-1763	1		208/220 Volt, 50/60 Hertz
306-1273	1		347 Volt, 50/60 Hertz	306-1763	1		240 Volt, 60 Hertz
306-1274	1		440/480 Volt, 50/60 Hertz	306-1764	1		240 Volt, 50 Hertz
			Rear Connected	306-1765	1		347 Volt, 50/60 Hertz
306-1276	1		208/220 Volt, 50/60 Hertz	306-1766	1		440/480 Volt, 50/60 Hertz
306-1276	1		240 Volt, 60 Hertz				3 Pole
306-1277	1		240 Volt, 50 Hertz				Specs A and B
306-1278	1		347 Volt, 50/60 Hertz				Standard
306-1279	1		440/480 Volt, 50/60 Hertz	306-1261	1		208/220 Volt, 50/60 Hertz
			Begin Spec C	306-1261	1		240 Volt, 60 Hertz
			Standard	306-1262	1		240 Volt, 50 Hertz
306-1757	1		110/120 Volt, 50/60 Hertz	306-1263	1		347 Volt, 50/60 Hertz
306-1758	1		208/220 Volt, 50/60 Hertz				
306-1758	1		240 Volt, 60 Hertz				

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

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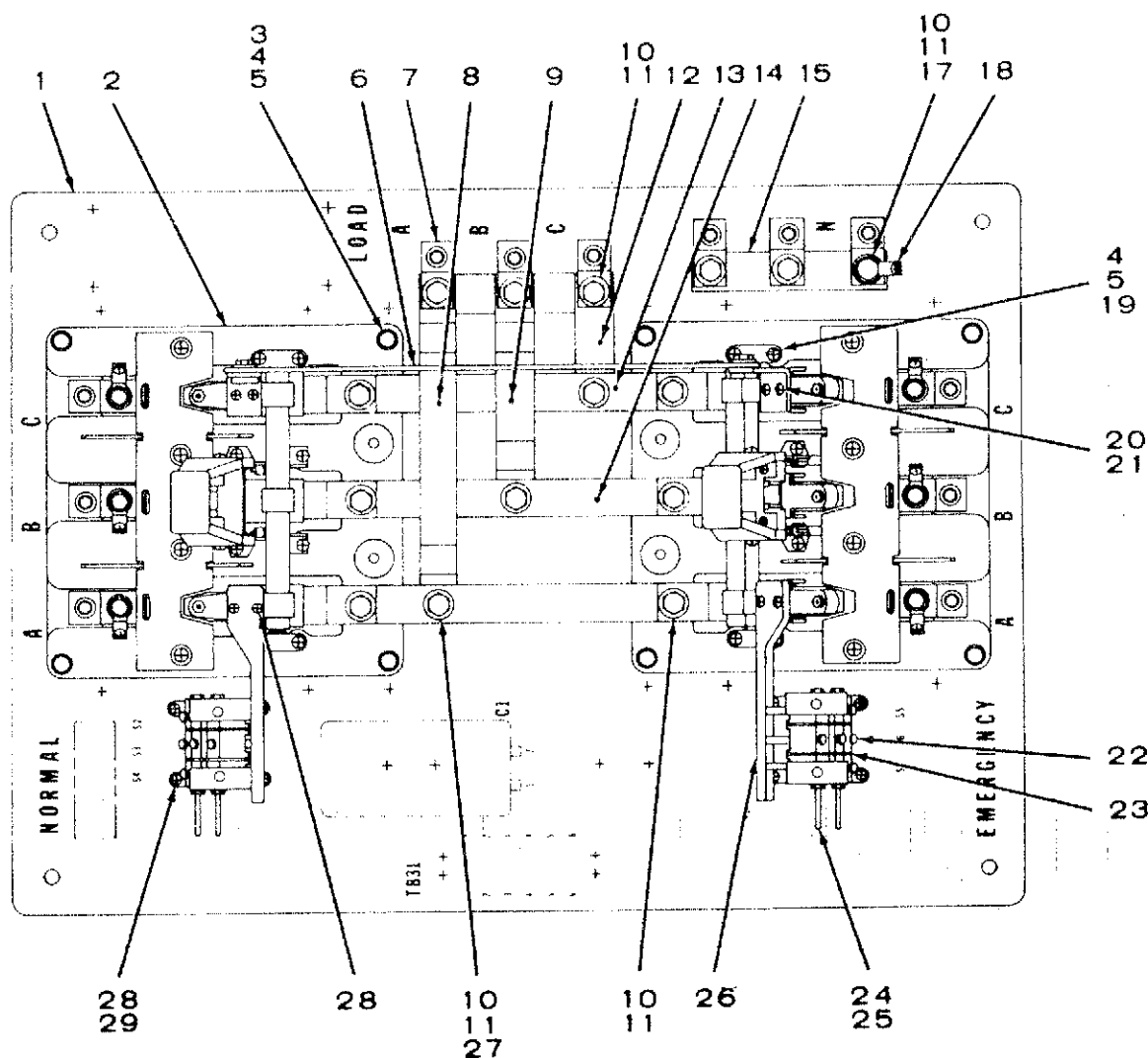
TRANSFER SWITCH ASSEMBLY (2 AND 3 POLE PROGRAMMED TRANSITION)

OT _____ - ☐ / _____ ☐

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	306-1264	1	440/480 Volt, 50/60 Hertz Rear Connected	13	306-1040	2	Rod End, Actuator
	306-1266	1	208/220 Volt, 50/60 Hertz	14	306-0641	1	Cover, Auxiliary Switch (Includes Switch and Lead)
	306-1266	1	240 Volt, 60 Hertz	15	815-0364	4	Screw, Machine - Round Head W/ET (#10-32 x 1/2")
	306-1267	1	240 Volt, 50 Hertz	16	98-3093	1	Label, Instruction
	306-1268	1	347 Volt, 50/60 Hertz	17	TIE, CABLE		
	306-1269	1	440/480 Volt, 50/60 Hertz Begin Spec C		332-0942	10	Specs A and B
			Standard		332-0821	4	Begin Spec C
	306-1747	1	110/120 Volt, 50/60 Hertz	18	332-2211	3	Terminal
	306-1748	1	208/220 Volt, 50/60 Hertz	19	BREAKER, CIRCUIT		
	306-1748	1	240 Volt, 60 Hertz		320-0612	1	110/120 Volt, 50/60 Hertz
	306-1749	1	240 Volt, 50 Hertz		320-0609	1	208/220/240 Volt, 50/60 Hertz
	306-1750	1	347 Volt, 50/60 Hertz		320-0608	1	347 Volt, 50/60 Hertz
	306-1751	1	440/480 Volt, 50/60 Hertz Rear Connected		320-0606	1	440/480 Volt, 50/60 Hertz
			110/120 Volt, 50/60 Hertz	20	812-0063	2	Screw, Machine - Round Head (#6-32 x 1/2")
	306-1752	1	208/220 Volt, 50/60 Hertz	21	860-0006	6	Nut, Hex (#6-32)
	306-1753	1	240 Volt, 60 Hertz	22	815-0464	2	Screw, Machine - Round Head W/IT (#8-32 x 1")
	306-1753	1	240 Volt, 50 Hertz				
	306-1754	1	240 Volt, 50 Hertz	23	LEAD		
	306-1755	1	347 Volt, 50/60 Hertz		336-2787	2	208/220/240 Volt, 50/60 Hertz
	306-1756	1	440/480 Volt, 50/60 Hertz		336-2787	1	347/440/480 Volt, 50/60 Hertz
1	SWITCH ASSEMBLY (See Separate Group for Components)			24	338-1113	1	Harness, Wiring (Includes Terminal Block)
			Specs A and B	24A	332-1541	1	Block, Terminal (Part of Wiring Harness)
	306-1353	1	3 Pole, 1 Phase - Standard				
	306-1354	1	2 Pole, 1 Phase - Rear Connected	25	CAPACITOR		
			3 Pole, 3 Phase - Standard		312-0209	1	110/120 Volt, 50/60 Hertz
	306-1351	1	3 Pole, 3 Phase - Standard		312-0205	2	208/220/240 Volt, 50/60 Hertz
	306-1352	1	3 Pole, 3 Phase - Rear Connected		312-0206	2	347 Volt, 50/60 Hertz
			Begin Spec C		312-0205	2	440/480 Volt, 50/60 Hertz
	306-1686	1	2 Pole, 1 Phase - Standard	26	SCREW, MACHINE - FLAT HEAD (#10-32 x 3/4")		
	306-1687	1	2 Pole, 1 Phase - Rear Connected		815-0469	4	Specs A and B Begin Spec C
			3 Pole, 3 Phase - Standard		815-0469	2	110/120/208/220/240 Volt, 50/60 Hertz
	306-1684	1	3 Pole, 3 Phase - Standard		815-0469	4	347/440/480 Volt, 50/60 Hertz
	306-1685	1	3 Pole, 3 Phase - Rear Connected	27	WASHER, LOCK - EXTERNAL TOOTH (#10)		
2		1	Relay Assembly (Consists of Indented Parts:)		855-0008	4	Specs A and B Begin Spec C
	301-4577	1	Bracket, Relay Mounting Relay, Time Delay (Includes Mounting Hardware)		855-0008	2	110/120/208/220/ 240 Volt, 50/60 Hertz
			110/120 Volt, 50/60 Hertz		855-0008	4	347/440/480 Volt, 50/60 Hertz
	307-1627	1	208/220 Volt, 50/60 Hertz	30	800-0544	4	Screw, Cap - Hex Head (1/4-20 x 5/8") - Specs A and B
	307-1628	1	240 Volt, 60 Hertz				
	307-1628	1	240 Volt, 50 Hertz	31	862-0001	4	Nut, Hex (1/4-20) - Specs A and B
	307-1629	1	347 Volt, 50/60 Hertz	32	SPACER, ACTUATOR MOUNTING		
	307-1630	1	440/480 Volt, 50/60 Hertz		306-1359	4	Specs A and B
3	815-0496	16	Screw, Machine - Round Head W/IT (#8-32 x 3/4")		306-1663	4	Begin Spec C
4	853-0003	6	Washer, Lock - ET (#6)	33	ROD, ACTUATOR		
5	306-1377	1	Cover, Load		306-1360	1	Specs A and B
6	ACTUATOR, LINEAR				306-1683	1	Begin Spec C
	306-1364	1	110/120 Volt, 50/60 Hertz	34	306-0516	1	Cover, Actuator
	306-1365	1	208/220/240 Volt, 50/60 Hertz	35	306-0281	4	Barrier, Switch
	306-1366	1	347 Volt, 50/60 Hertz	36	309-0297	2	Switch, Snap Action
	306-1367	1	440/480 Volt, 50/60 Hertz	37	800-0008	1	Screw, Cap - Hex Head (1/4-20 x 1-1/4") - Begin Spec C
7	800-0018	4	Screw, Cap - Hex Head (1/4-20 x 3-3/4")	38	526-0018	10	Washer, Flat (17/64" ID x 5/8" OD x 1/16" Thk) - Begin Spec C
8	WASHER, LOCK - SPRING (1/4")						
	850-0040	4	Specs A and B				
	850-0040	5	Begin Spec C				
9	306-0515	1	Cover, Contacts				
10	306-1363	1	Plate, Motor Mounting				
11	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")				
12	306-0115	2	Washer, Flat (11/32" ID x 11/16" OD x 1/16" Thk)				

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

SWITCHING ASSEMBLY



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
SWITCHING ASSEMBLY (Complete)			
			Specs A and B
			Without Programmed Transition
306-0681	1	2 Pole, 1 Phase - Standard Connected	
306-0683	1	2 Pole, 1 Phase - Rear Connected	
306-0677	1	3 Pole, 3 Phase - Rear Connected	
306-0679	1	3 Pole, 3 Phase - Standard Connected	
		With Programmed Transition	
306-1353	1	2 Pole, 1 Phase - Standard Connected	
306-1354	1	2 Pole, 1 Phase - Rear Connected	
306-1351	1	3 Pole, 3 Phase - Standard Connected	
306-1352	1	3 Pole, 3 Phase - Rear Connected	
		Begin Spec C	
306-1686	1	2 Pole, 1 Phase - Standard Connected	
306-1687	1	2 Pole, 1 Phase - Rear Connected	
306-1684	1	3 Pole, 3 Phase - Standard Connected	
306-1685	1	3 Pole, 3 Phase - Rear Connected	

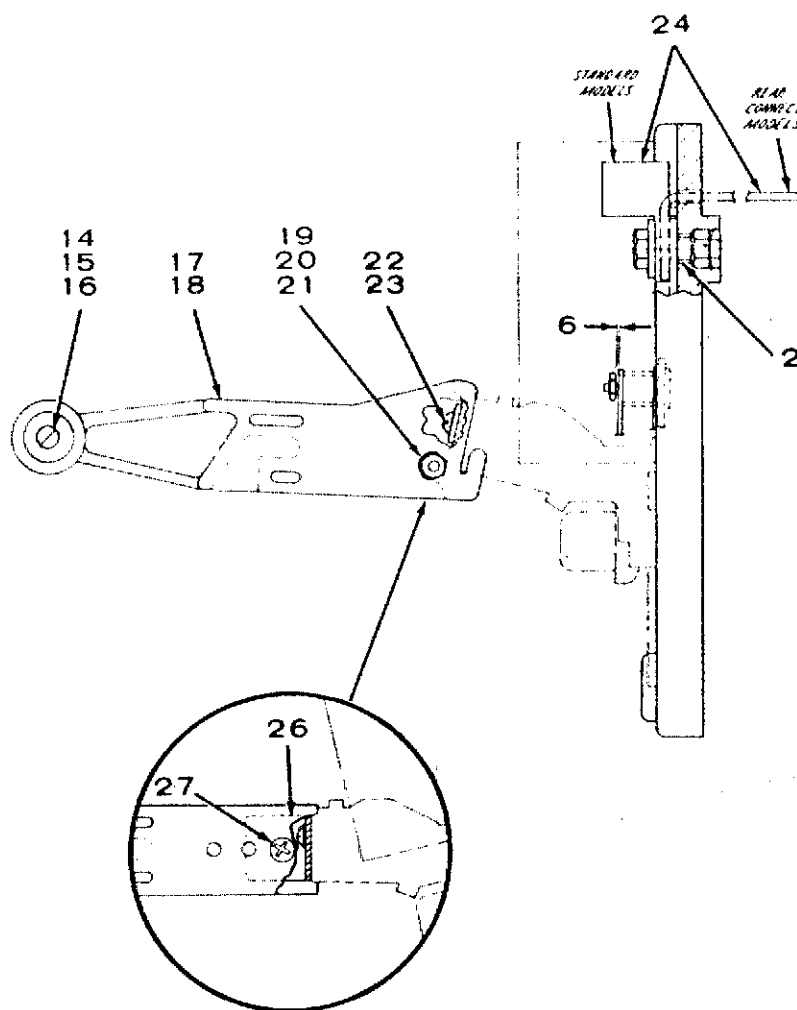
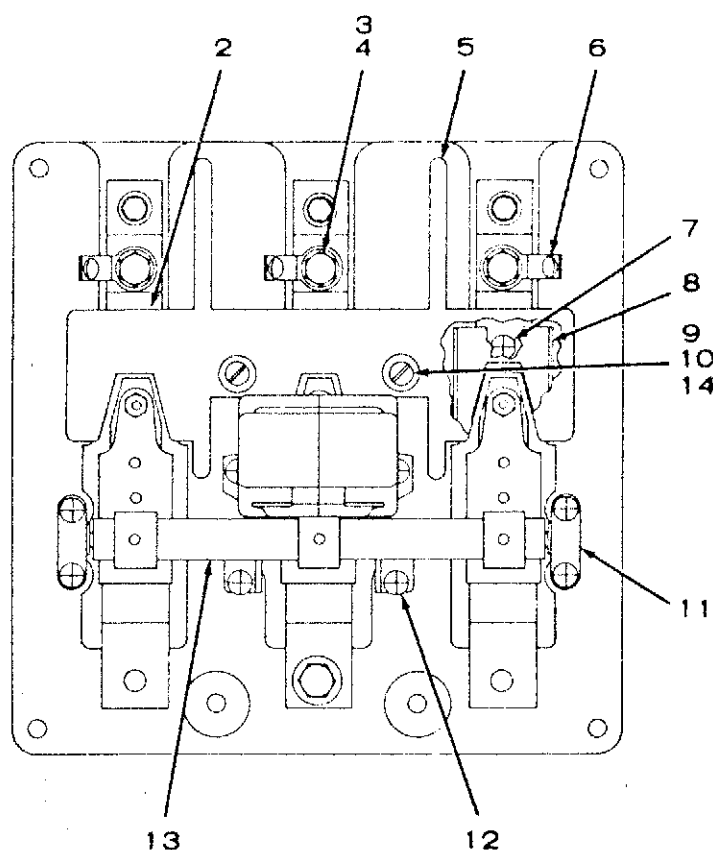
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	BASE		
	306-1099	1	2 Pole, 1 Phase
	306-1098	1	3 Pole, 3 Phase
2	BLOCK AND CROSS BAR ASSEMBLY (See Separate Group for Components)		
			Specs A and B
			Without Programmed Transition
	306-1631	2	2 Pole, 1 Phase - Standard Connected
	306-1632	2	2 Pole, 1 Phase - Rear Connected
	306-1629	2	3 Pole, 3 Phase - Standard Connected
	306-1630	2	3 Pole, 3 Phase - Rear Connected
			With Programmed Transition
	306-1345	2	2 Pole, 1 Phase - Standard Connected
	306-1346	2	2 Pole, 1 Phase - Rear Connected
	306-1343	2	3 Pole, 3 Phase - Standard Connected
	306-1344	2	2 Pole, 3 Phase - Rear Connected
			Begin Spec C
	306-1694	2	2 Pole, 1 Phase - Standard Connected
	306-1695	2	2 Pole, 1 Phase - Rear Connected

SWITCHING ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	306-1692	2	3 Pole, 3 Phase - Standard Connected
	306-1693	2	3 Pole, 3 Phase - Rear Connected
3	800-0009	8	Screw, Cap - Hex Head (1/4-20 x 1-1/2")
4	WASHER, LOCK - INTERNAL TEETH (1/4")		
	854-0014	8	Specs A and B
	854-0014	10	Begin Spec C
5	526-0015	10	Washer, Flat (9/32" ID x 9/16" OD x 1/16")
6	306-0274	1	Switch, Interlock Bar
7	LUG, SOLDERLESS (Standard Connected Units)		
	332-2016	5	2 Pole, 1 Phase
	332-2016	6	3 Pole, 3 Phase
8	STRAP, LOAD		
	337-0245	1	Standard Connected
	337-0206	1	Rear Connected
9	STRAP, LOAD - 3 Pole, 3 Phase Units		
	337-0247	1	Standard Connected
	337-0206	1	Rear Connected
10	SCREW, CAP - HEX HEAD W/CONE WASHER (5/16-18 x 1")		
	815-0459	11	2 Pole, 1 Phase - Standard Connected
	815-0459	8	2 Pole, 1 Phase - Rear Connected
	815-0459	15	3 Pole, 3 Phase - Standard Connected
	815-0459	9	3 Pole, 3 Phase - Rear Connected

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	STRAP, LOAD		
	337-0246	1	Standard Connected
	337-0206	1	Rear Connected
13	337-0248	2	Strap, Jumper
14	337-0244	1	Strap, Jumper - 3 Pole, 3 Phase Units
15	337-0163	1	Strap, Neutral - Standard Connected Units
17	332-1913	1	Terminal, Ring - Standard Connected Units
18	815-0410	1	Screw, Binding Head Machine (#6-32 x 1/4") - Standard Connected Units
19	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
20	306-0508	2	Arm, Interlocking
21	815-0446	4	Screw, Machine - Round Head W/IT (#8-32 x 1/2")
22	309-0297	6	Switch, Snap Action
23	306-0281	8	Barrier, Switch
24	815-0478	4	Screw, Cap - Hex Head (#6-32 x 3-1/2")
25	870-0183	4	Nut, Hex W/ET (#6-32)
26	306-0253	2	Lever
27	NUT, HEX (5/16-18)		
	862-0015	2	2 Pole, 1 Phase
	862-0015	3	3 Pole, 3 Phase
28	815-0447	12	Screw, Machine - Round Head (#8-32 x 3/4")
29	306-0258	4	Bracket, Access Switch

BLOCK AND CROSS BAR ASSEMBLY



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
BLOCK AND CROSS BAR ASSEMBLY - COMPLETE			
			Specs A and B
			Without Programmed Transition
306-1631	2		2 Pole, 1 Phase - Standard Connected
306-1632	2		2 Pole, 1 Phase - Rear Connected
306-1629	2		3 Pole, 3 Phase - Standard Connected
306-1630	2		3 Pole, 3 Phase - Rear Connected
			With Programmed Transition
306-1345	2		2 Pole, 1 Phase - Standard Connected
306-1346	2		2 Pole, 1 Phase - Rear Connected
306-1343	2		3 Pole, 3 Phase - Standard Connected
306-1344	2		3 Pole, 3 Phase - Rear Connected
			Begin Spec C
306-1694	2		2 Pole, 1 Phase - Standard Connected
306-1695	2		2 Pole, 1 Phase - Rear Connected

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	306-1692	2	3 Pole, 3 Phase - Standard Connected
	306-1693	2	3 Pole, 3 Phase - Rear Connected
2	STRAP, LINE		
	306-0264	4	2 Pole, 1 Phase
	306-0264	6	3 Pole, 3 Phase
3	SCREW, CAP - HEX HEAD W/CONICAL (5/16-18 x 1")		
	815-0459	4	2 Pole, 1 Phase
	815-0459	6	3 Pole, 3 Phase
4	RING, TERMINAL		
	332-1913	4	2 Pole, 1 Phase
	332-1913	6	3 Pole, 3 Phase
5	306-1387	2	Barrier, Arc Chute
6	SCREW, MACHINE - BINDER HEAD (#6-32 x 1/4")		
	815-0410	4	2 Pole, 1 Phase
	815-0410	6	3 Pole, 3 Phase
7	SCREW, MACHINE - FLAT HEAD (#10-32 x 1/2")		
	815-0029	4	2 Pole, 1 Phase
	815-0029	6	3 Pole, 3 Phase
8	CHUTE, ARC		
	306-0268	4	2 Pole, 1 Phase
	306-0268	6	3 Pole, 3 Phase

BLOCK AND CROSS BAR ASSEMBLY

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	813-0113	4	Screw, Machine - Round Head (#10-32 x 2-3/4")	21	NUT, HEX - MACHINE (#8-32) 860-0008	2	Specs A and B With Programmed Transition
10	526-0008	6	Washer, Flat (13/64" ID x 7/16" OD x 1/32" Thk)		860-0008	2	Begin Spec C
11	306-0273	4	Bracket, Cross Bar Mounting	22	SCREW, MACHINE - ROUND HEAD W/IT 815-0446	4	Specs A and B - Without Programmed Transition (#8-32 x 1/2")
12	815-0449	16	Screw, Machine - Round Head W/ET (#10-32 x 3/4")		815-0447	4	Specs A and B - With Programmed Transition (#8-32 x 3/4")
13	CROSS BAR REPLACEMENT KIT				815-0447	4	Begin Spec C (#8-32 x 3/4")
	306-1824	2	2 Pole, 1 Phase	23	PLATE, HANDLE MOUNTING 306-1396	2	Specs A and B With Programmed Transition
	306-1827	2	3 Pole, 3 Phase		306-1396	2	Begin Spec C
14	853-0008	6	Washer, Lock - ET (#10)	24	LUG, SOLDERLESS 332-2016	4	2 Pole, 1 Phase - Standard Connected
15	870-0200	2	Nut, Hex (#10-32)		337-0336	4	2 Pole, 1 Phase - Rear Connected
16	813-0109	2	Screw, Machine - Round Head (#10-32 x 1-3/4")		332-2016	6	3 Pole, 3 Phase - Standard Connected
17	HANDLE, SWITCH - RIGHT HAND				337-0336	6	3 Pole, 3 Phase - Rear Connected
	306-0793	2	Specs A & B Without Programmed Transition	25	BUSHING 306-1397	8	2 Pole, 1 Phase
	306-1381	2	With Programmed Transition		306-1397	12	3 Pole, 3 Phase
	306-1381	2	Begin Spec C	26	306-0255	2	Adapter, Handle Mounting - Specs A and B Without Programmed Transition
18	HANDLE, SWITCH - LEFT HAND			27	815-0450	4	Screw, Machine - Round Head W/IT (#10-32 x 1/2") - Specs A and B Without Programmed Transition
	306-0791	2	Specs A and B Without Programmed Transition				
	306-1382	2	With Programmed Transition				
	306-1382	2	Begin Spec C				
19	SCREW, MACHINE - ROUND HEAD (#8-32 x 2-1/4")						
	812-0090	2	Specs A and B With Programmed Transition				
	812-0090	2	Begin Spec C				
20	WASHER, LOCK - ET (#8)						
	853-0005	2	Specs A and B With Programmed Transition				
	853-0005	2	Begin Spec C				