



Parts Manual

Our energy working for you.™



**Power
Generation**

Transfer Switch

800/1000 Amps

OTIII (Spec G-K)

MODEL IDENTIFICATION

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

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

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Introduction

This catalog applies to the OTIII Spec G – K Transfer Switches as indicated below. 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 number from the switch box nameplate, select the parts that apply to your automatic transfer switch. Unless otherwise noted in the parts description, parts are interchangeable between models.

Model Selection Table

OT C U 800 A 00000 G

Transfer Switch Series

OT = 3 Pole
ON = 4 Pole

Application Code

A = Non-Automatic
B = Utility to Utility
C = Utility to Generator Set (2 wire)
D = Generator Set to Generator Set
E = Generator Set to Generator Set (3 wire)
F = Remote Control (Slave)
G = Remote Control (LRS)
H = Utility to Generator Set

Standards Code

U = UL Listed
C = CSA Approved
N = No Approval Required

Ampere Rating

800, 1000

Specification Letter

Designates Major Manufacturing Changes

Specification Number

Factory code designating a combination of accessories

Voltage & Frequency Code

A = 120 V 60 Hz 1 Ph 2 Wire
B = 120/240 V 60 Hz 1 Ph 3 Wire
C = 120/208 V 60 Hz 3 Ph 4 Wire
D = 120/240 V 60 Hz 3 Ph 4 Wire
E = 240/480 V 60 Hz 3 Ph 4 Wire
F = 220/380 V 60 Hz 3 Ph 4 Wire
G = 277/480 V 60 Hz 3 Ph 4 Wire
H = 347/600 V 60 Hz 3 Ph 4 Wire
J = 120/240 V 60 Hz 1 Ph 4 Wire
K = 416-440,480 V 60 Hz 3 Ph 4 W
M = 110/220 V 50 Hz 1 Ph 4 Wire
N = 120/240 V 50 Hz 1 Ph 3 Wire
P = 120/240 V 50 Hz 1 Ph 4 Wire
S = 120/240 V 50 Hz 3 Ph 4 Wire
T = 220/380 V 50 Hz 3 Ph 4 Wire
U = 240 V 50 Hz 1 Ph 2 Wire
Y = 380,400,416 V 50 Hz 3 Ph 4 W
R = Special

Feature Options can be determined by reading them off the nameplate or by accessing the following screen through the Distributor On-Line computer system. Note that the first digit typed on this screen is a code number corresponding to an individual Cummins Power Generation product (1=Engines, 2=Gensets, 5=Generator Ends, 6=LT's, 7=OT's/BT's) and that the spec number is always kept to the right and zero filled if the spec number is less than five digits.

MAD2
ITEM NO: 702835

.....

A015 260 Amps Continuous
A029 4 Pole Switch for Program
A035 Utility to Genset
A042 Three Phase (3 or 4 Wire)
A044 60 Hz Frequency
A046 UL Listed

Feature/Options

Beginning with Spec J, feature option codes applicable to the individual unit are listed on the Transfer Switch Nameplate. The following describes these codes;

A028	Poles – 3	L005	Auxiliary Relay – Normal Source
A029	Poles – 4	L101	Auxiliary Relay – 24 VDC Coil
A035	Application – Utility to Genset	L102	Auxiliary Relay – Emergency Position
A036	Application – Utility to Utility	L103	Auxiliary Relay – Normal Position
A037	Application – Genset to Genset	L104	Auxiliary Relay – Genset Start
A038	Application – Non-Automatic/Remote	L201	Auxiliary Relay – 12 VDC Coil
A042	System – 3 Phase 3 or 4 Wire	L202	Auxiliary Relay – Emergency Position
A044	Frequency – 60 Hertz	L203	Auxiliary Relay – Normal Position
A045	Frequency – 50 Hertz	L204	Auxiliary Relay – Genset Start
A046	Listing – UL		
A047	Certification – CSA	M001	Module – Signal
A048	Listing – Not Applicable	M003	Terminal Block – 30 Place
		M004	Monitor – Phase/Sequence Balance
B001	Cabinet – Type 1	M006	Sequencer – Standby Set Start 12 Volt
B002	Cabinet – Type 3R	M007	Load Shed – From Emergency
B003	Cabinet – Type 4	M008	Module – Alarm
B004	Construction – Open	M010	Sequencer – Standby Set Start 24 Volt
C015	Start Time Delay – 90 Seconds	N001	Switch – Auto/Manual
C016	Control – Over Voltage & Over/Under Hertz Source 2	N002	Terminal Block – Battery Charger Alarm
C017	Control – Over Voltage & Over/Under Hertz Source 1	N005	Terminal Block – Source 1/2 Remote Signal
		N009	Power Connect – Bus Stubs
D001	Meters – None	N013	Harness, Extension – 4 Feet
D002	Meters – Door Mounted		
		R020	Voltage – 120
J001	Clock – 7 Day Exerciser	R021	Voltage – 208
J021	Programmed Transition 0.5 to 7.5 Second Delay	R022	Voltage – 220
		R023	Voltage – 240
J022	Programmed Transition 1 to 60 Second Delay	R024	Voltage – 380
		R025	Voltage – 416
K001	Battery Charger – 2 Amp, 12/24 Volt	R026	Voltage – 480
K002	Battery Charger – 10 Amp, 12 Volt	R027	Voltage – 600
K003	Battery Charger – 10 Amp, 24 Volt		
		S055	Current Rating – 800 Amps
		S056	Current Rating – 1000 Amps
L001	Auxiliary Relay – 24 VAC Coil		
L002	Auxiliary Relay – Emergency Position		
L003	Auxiliary Relay – Normal Position		
L004	Auxiliary Relay – Emergency Source		

Abbreviations

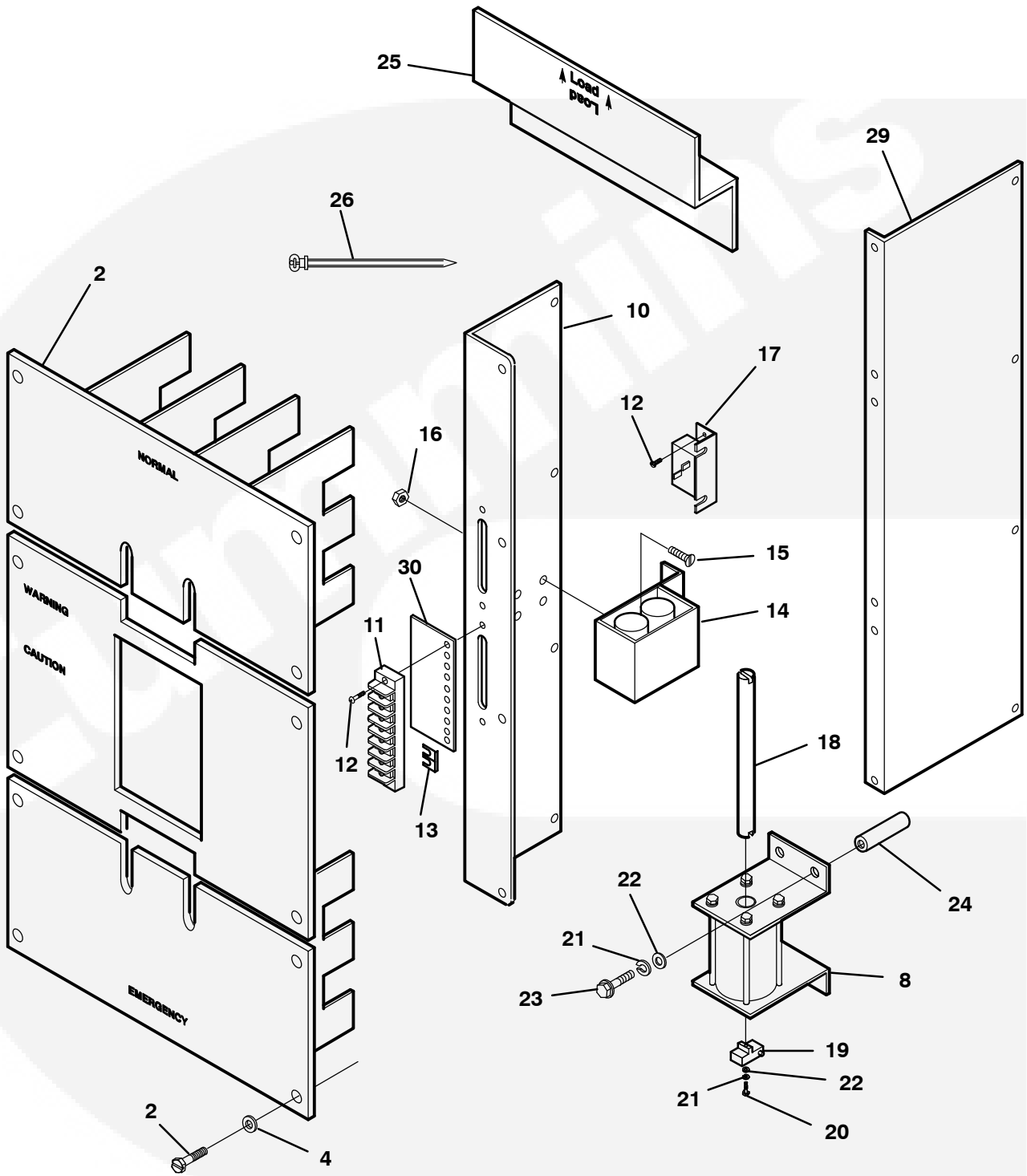
Some of the following abbreviations may be used throughout this Parts Catalog;

Alternating Current	AC
Ampere	Amp
As Required	A/R
Automatic Voltage Regulator	AVR
Direct Current	DC
External Tooth	ET
External-Internal Tooth	EIT
Inside Diameter	ID
Internal Tooth	IT
Kilowatt	kW
Liquid Petroleum Gas	LPG
Left	LT
Meter	M(meter number)
Millimeter	mm
Not for sale	NFS
Nominal Pipe Thread	NPT
Outside Diameter	OD
Phase	Ph
Printed Circuit	PC
Right	RT
Specification	Spec
Union National Coarse	UNC
Union National Fine	UNF
Volts Alternating Current	VAC
Volts Direct Current	VDC
With	W/(ET, IT, or EIT)

“Intentionally Left Blank”



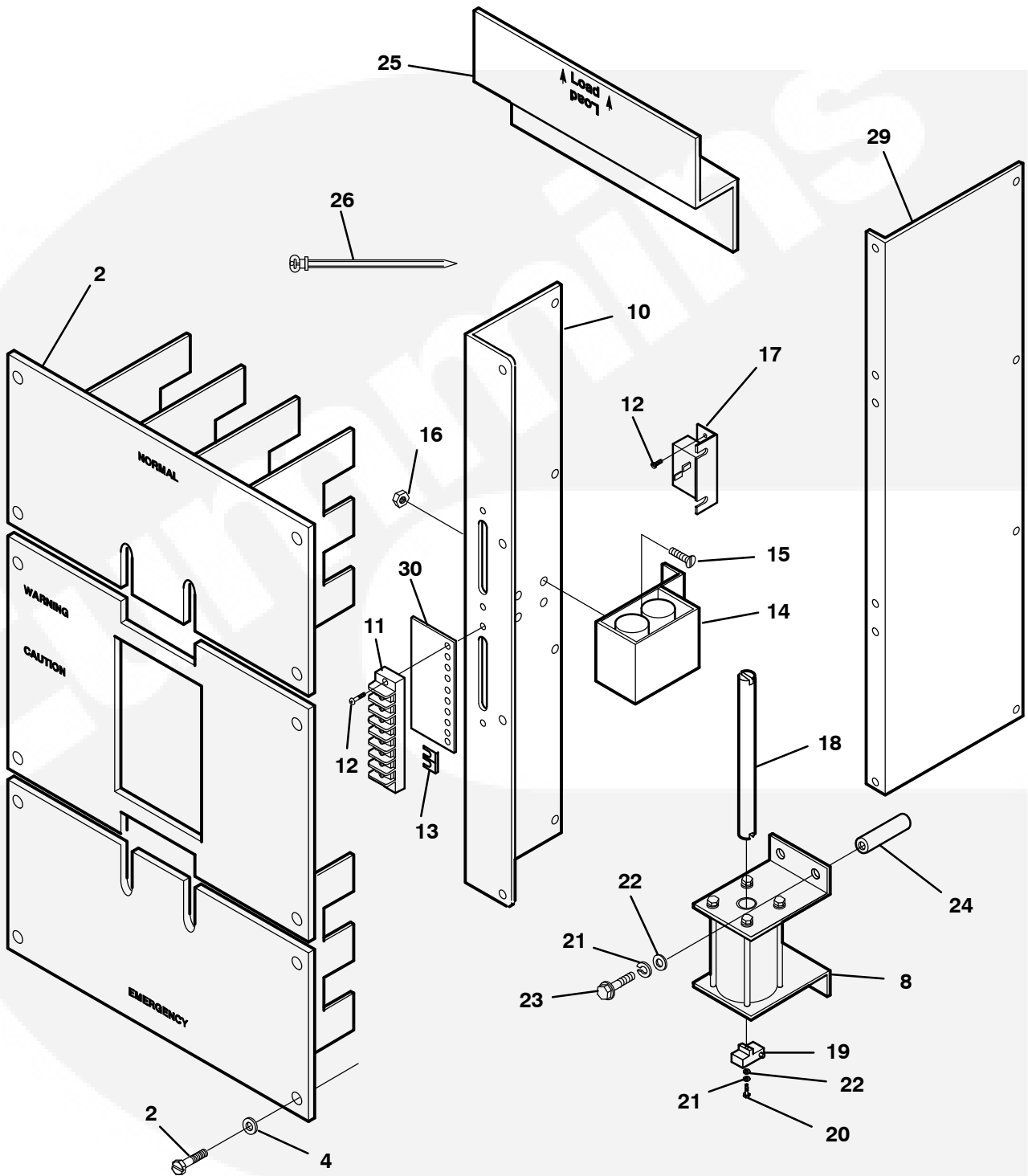
Transfer Switch Assembly



Transfer Switch Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Transfer Switch Assembly – 3 Pole, Front Connect (Includes Parts Marked *)				Transfer Switch Assembly – 3 Pole, Rear Connect (Includes Parts Marked *)			
800 Amp				800 Amp			
60 Hertz				60 Hertz			
306-3456-01	1		120 Volt, 1 Ph., 2 Wire	306-3501-01	1		120 Volt, 1 Ph., 2 Wire
306-3456-04	1		120/240 Volt, 1 Ph., 3 Wire	306-3501-04	1		120/240 Volt, 1 Ph., 3 Wire
306-3456-03	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-03	1		120/208 Volt, 3 Ph., 4 Wire
306-3456-04	1		120/240 Volt, 3 Ph., 4 Wire	306-3501-04	1		120/240 Volt, 3 Ph., 4 Wire
306-3456-07	1		240/480 Volt, 3 Ph., 4 Wire	306-3501-07	1		240/480 Volt, 3 Ph., 4 Wire
306-3456-06	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-06	1		220/380 Volt, 3 Ph., 4 Wire
306-3456-07	1		277/480 Volt, 3 Ph., 4 Wire	306-3501-07	1		277/480 Volt, 3 Ph., 4 Wire
306-3456-05	1		347/600 Volt, 3 Ph., 4 Wire	306-3501-05	1		347/600 Volt, 3 Ph., 4 Wire
50 Hertz				50 Hertz			
306-3456-04	1		220 Volt, 1 Ph., 2 Wire	306-3501-04	1		220 Volt, 1 Ph., 2 Wire
306-3456-04	1		115/200 Volt, 1 Ph., 3 Wire	306-3501-04	1		115/200 Volt, 1 Ph., 3 Wire
306-3456-04	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-04	1		220/380 Volt, 3 Ph., 4 Wire
306-3456-03	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-03	1		120/208 Volt, 3 Ph., 4 Wire
306-3456-06	1		240/416 Volt, 3 Ph., 4 Wire	306-3501-06	1		240/416 Volt, 3 Ph., 4 Wire
1000 Amp				1000 Amp			
60 Hertz				60 Hertz			
306-3456-10	1		120 Volt, 1 Ph., 2 Wire	306-3501-01	1		120 Volt, 1 Ph., 2 Wire
306-3456-13	1		120/240 Volt, 1 Ph., 3 Wire	306-3501-04	1		120/240 Volt, 1 Ph., 3 Wire
306-3456-12	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-03	1		120/208 Volt, 3 Ph., 4 Wire
306-3456-13	1		120/240 Volt, 3 Ph., 4 Wire	306-3501-04	1		120/240 Volt, 3 Ph., 4 Wire
306-3456-16	1		240/480 Volt, 3 Ph., 4 Wire	306-3501-07	1		240/480 Volt, 3 Ph., 4 Wire
306-3456-15	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-06	1		220/380 Volt, 3 Ph., 4 Wire
306-3456-16	1		277/480 Volt, 3 Ph., 4 Wire	306-3501-07	1		277/480 Volt, 3 Ph., 4 Wire
306-3456-14	1		347/600 Volt, 3 Ph., 4 Wire	306-3501-05	1		347/600 Volt, 3 Ph., 4 Wire
50 Hertz				50 Hertz			
306-3456-13	1		220 Volt, 1 Ph., 2 Wire	306-3501-04	1		220 Volt, 1 Ph., 2 Wire
306-3456-13	1		115/200 Volt, 1 Ph., 3 Wire	306-3501-04	1		115/200 Volt, 1 Ph., 3 Wire
306-3456-13	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-04	1		220/380 Volt, 3 Ph., 4 Wire
306-3456-12	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-03	1		120/208 Volt, 3 Ph., 4 Wire
306-3456-15	1		240/416 Volt, 3 Ph., 4 Wire	306-3501-06	1		240/416 Volt, 3 Ph., 4 Wire

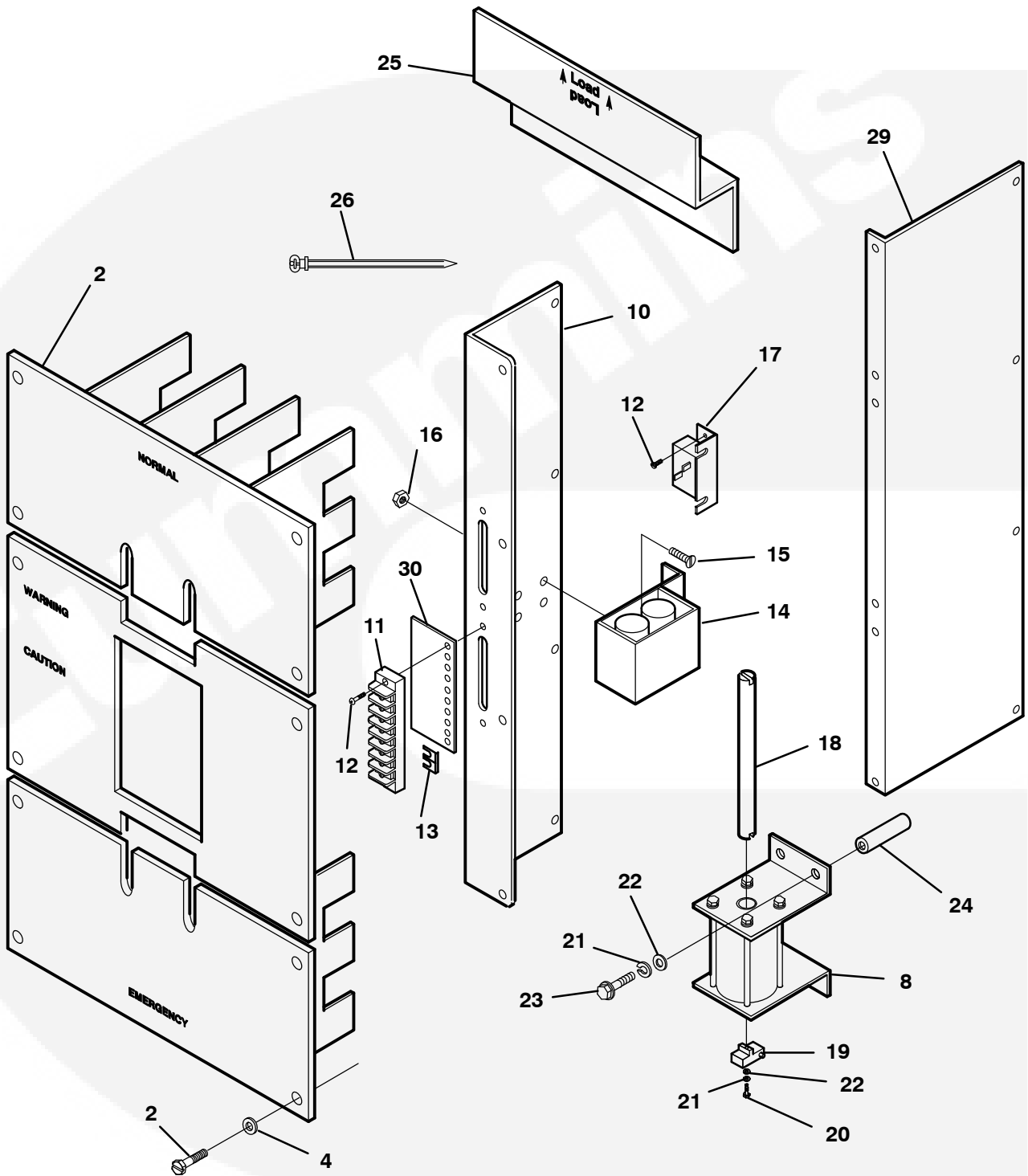
Transfer Switch Assembly (Continued)



Transfer Switch Assembly (Continued)

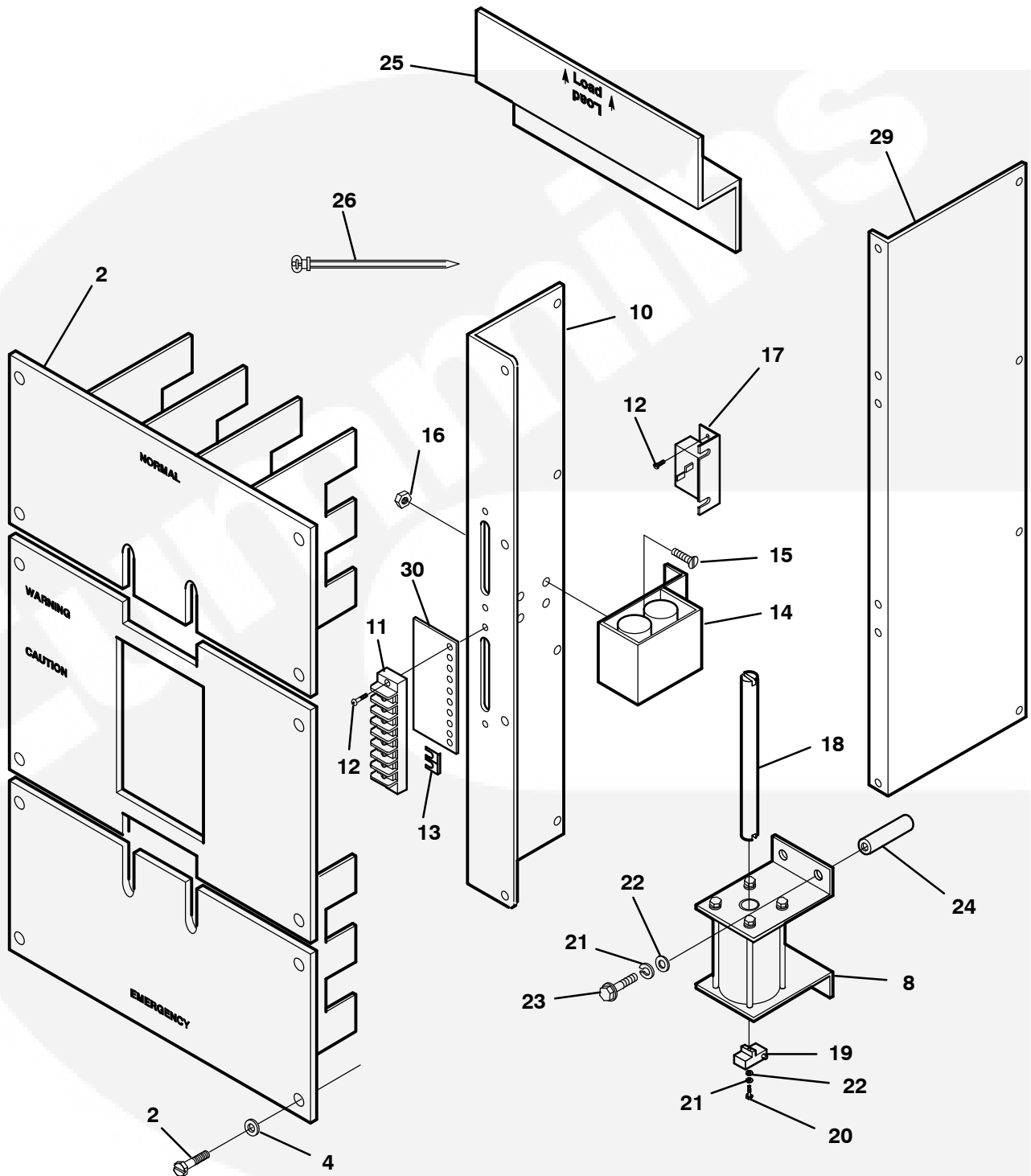
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Transfer Switch Assembly – 4 Pole, Front Connect (Includes Parts Marked *)				Transfer Switch Assembly – 4 Pole, Rear Connect (Includes Parts Marked *)
			800 Amp				800 Amp
			60 Hertz				60 Hertz
306-3457-01	1		120 Volt, 1 Ph., 2 Wire	306-3501-10	1		120 Volt, 1 Ph., 2 Wire
306-3457-04	1		120/240 Volt, 1 Ph., 3 Wire	306-3501-13	1		120/240 Volt, 1 Ph., 3 Wire
306-3457-03	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-12	1		120/208 Volt, 3 Ph., 4 Wire
306-3457-04	1		120/240 Volt, 3 Ph., 4 Wire	306-3501-13	1		120/240 Volt, 3 Ph., 4 Wire
306-3457-07	1		240/480 Volt, 3 Ph., 4 Wire	306-3501-16	1		240/480 Volt, 3 Ph., 4 Wire
306-3457-06	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-15	1		220/380 Volt, 3 Ph., 4 Wire
306-3457-07	1		277/480 Volt, 3 Ph., 4 Wire	306-3501-16	1		277/480 Volt, 3 Ph., 4 Wire
306-3457-05	1		347/600 Volt, 3 Ph., 4 Wire	306-3501-14	1		347/600 Volt, 3 Ph., 4 Wire
			50 Hertz				50 Hertz
306-3457-04	1		220 Volt, 1 Ph., 2 Wire	306-3501-13	1		220 Volt, 1 Ph., 2 Wire
306-3457-04	1		115/200 Volt, 1 Ph., 3 Wire	306-3501-13	1		115/200 Volt, 1 Ph., 3 Wire
306-3457-04	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-13	1		220/380 Volt, 3 Ph., 4 Wire
306-3457-03	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-12	1		120/208 Volt, 3 Ph., 4 Wire
306-3457-06	1		240/416 Volt, 3 Ph., 4 Wire	306-3501-15	1		240/416 Volt, 3 Ph., 4 Wire
			1000 Amp				1000 Amp
			60 Hertz				60 Hertz
306-3457-10	1		120 Volt, 1 Ph., 2 Wire	306-3501-10	1		120 Volt, 1 Ph., 2 Wire
306-3457-13	1		120/240 Volt, 1 Ph., 3 Wire	306-3501-13	1		120/240 Volt, 1 Ph., 3 Wire
306-3457-12	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-12	1		120/208 Volt, 3 Ph., 4 Wire
306-3457-13	1		120/240 Volt, 3 Ph., 4 Wire	306-3501-13	1		120/240 Volt, 3 Ph., 4 Wire
306-3457-16	1		240/480 Volt, 3 Ph., 4 Wire	306-3501-16	1		240/480 Volt, 3 Ph., 4 Wire
306-3457-15	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-15	1		220/380 Volt, 3 Ph., 4 Wire
306-3457-16	1		277/480 Volt, 3 Ph., 4 Wire	306-3501-16	1		277/480 Volt, 3 Ph., 4 Wire
306-3457-14	1		347/600 Volt, 3 Ph., 4 Wire	306-3501-14	1		347/600 Volt, 3 Ph., 4 Wire
			50 Hertz				50 Hertz
306-3457-13	1		220 Volt, 1 Ph., 2 Wire	306-3501-13	1		220 Volt, 1 Ph., 2 Wire
306-3457-13	1		115/200 Volt, 1 Ph., 3 Wire	306-3501-13	1		115/200 Volt, 1 Ph., 3 Wire
306-3457-13	1		220/380 Volt, 3 Ph., 4 Wire	306-3501-13	1		220/380 Volt, 3 Ph., 4 Wire
306-3457-12	1		120/208 Volt, 3 Ph., 4 Wire	306-3501-12	1		120/208 Volt, 3 Ph., 4 Wire
306-3457-15	1		240/416 Volt, 3 Ph., 4 Wire	306-3501-15	1		240/416 Volt, 3 Ph., 4 Wire

Transfer Switch Assembly (Continued)



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Transfer Switch Assembly (Continued)

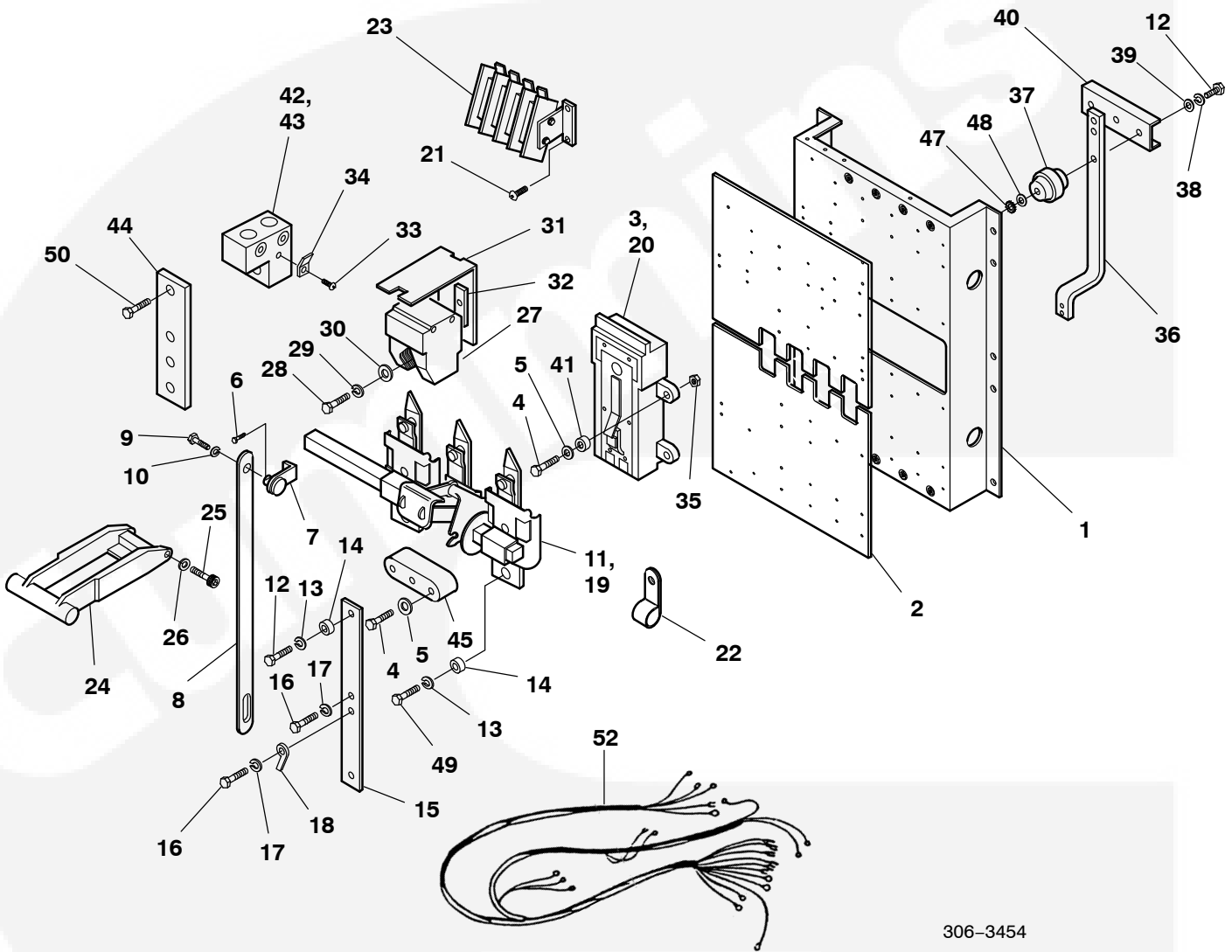


Transfer Switch Assembly (Continued)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	815-0029	4	*Screw, Flat Head – Cross Recessed (#6-32 x 3/4)	18	306-3452	1	*Rod, Actuator
16	870-0131	4	*Nut, Hex – w/ET (#10-32)	19	306-3400-02	2	*Rod End, Actuator
17			*Breaker, Circuit	20	800-0008	2	*Screw, Cap – Hex Head (1/4-20 x 1-1/4)
			60 Hertz	21	850-0040	6	*Washer, Lock (1/4)
	320-1106	1	120 Volt, 1 Ph., 2 Wire	22	526-0018	6	*Washer, Flat (1/4)
	320-0612	1	120/240 Volt, 1 Ph., 3 Wire	23	800-0185	4	*Screw, Cap – Hex Head (1/4-20 x 5-1/2)
	320-0612	1	120/208 Volt, 3 Ph., 4 Wire	24	306-2276	4	*Spacer, Mounting – Actuator
	320-0612	1	120/240 Volt, 3 Ph., 4 Wire	25			*Cover, Load (Front Connect Only) (Includes Label)
	320-0611	1	240/480 Volt, 3 Ph., 4 Wire		306-3462	1	3 Pole
	320-0611	1	220/380 Volt, 3 Ph., 4 Wire		306-3458	1	4 Pole
	320-0611	1	277/480 Volt, 3 Ph., 4 Wire		098-5643	1	Label
	320-0611	1	347/600 Volt, 3 Ph., 4 Wire	26	332-0942	4	*Tie, Cable
			50 Hertz	28	306-1038	6	*Barrier, Chute – Arc
	320-0612	1	220 Volt, 1 Ph., 2 Wire	29	306-3440	1	*Bracket, Cover
	320-0612	1	115/200 Volt, 1 Ph., 3 Wire	30	332-2903	2	*Strip, Marker
	320-0612	1	220/380 Volt, 3 Ph., 4 Wire				
	320-0612	1	120/208 Volt, 3 Ph., 4 Wire				
	320-0611	1	240/416 Volt, 3 Ph., 4 Wire				

* Parts included in Transfer Switch Assembly

Switch Assembly



306-3454

Switch Assembly

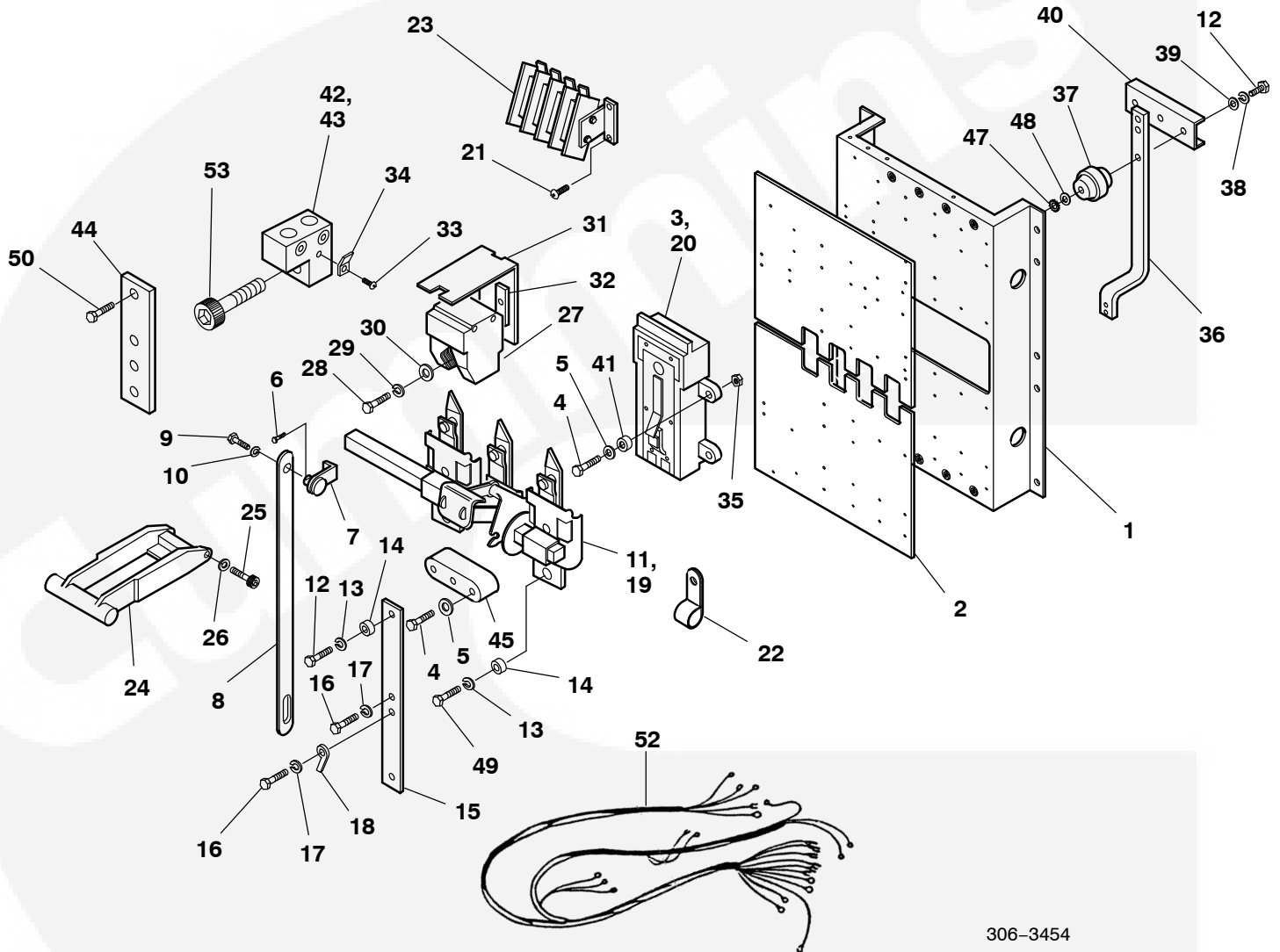
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			*Switch Assembly (See separate page for components)	14	306-1398	6	*Bushing
			Front Connect	15			*Strap, Jumper
			3 Pole				Front Connect
	306-3454-01	1	800 Amp		337-2334	3	800 Amp
	306-3454-02	1	1000 Amp		337-2335	3	1000 Amp
			4 Pole				4 Pole
	306-3455-01	1	800 Amp		337-2334	4	800 Amp
	306-3455-02	1	1000 Amp		337-2335	4	1000 Amp
			Rear Connect				Rear Connect
	306-3500	1	3 Pole		337-2335	3	3 Pole
	306-3504	1	4 Pole		337-2335	4	4 Pole
1	306-3437	1	*Base, Mounting	16			*Screw, Cap – Hex Head (5/16–18 x 1–1/2)
2	306-3438	2	*Barrier, Base – Mounting		800-0031	6	3 Pole
3			*Block Assembly, Strap – Line (Outer) (See separate page for components)		800-0031	8	4 Pole
	306-3453-02	4	3 Pole	17	851-0028	6	*Washer, Spring (5/16)
	306-3453-02	6	4 Pole		851-0028	8	3 Pole
4			*Screw, Cap – Hex Head (1/4–20 x 1–1/4)	18	332-2463	4	4 Pole
	815-0667	24	3 Pole	19			*Terminal, Tab
	815-0667	32	4 Pole		306-3431-02	1	*Contact Assembly, Emergency
5			*Washer, Flat (1/4)		306-3432-02	1	3 Pole
	526-0018	26	3 Pole	20	306-3453-01	2	4 Pole
	526-0018	34	4 Pole				*Block Assembly, Strap – Line (Inner) (See separate page for components)
6	815-0446	4	*Screw, Round Head – w/IT (#8–32 x 1/2)	21	815-0652	9	*Screw, Slotted – Hex Head (#10–32 x 1/2)
7	306-0508	2	*Arm, Interlock	22	332-2542	1	*Clamp
8	306-3451	1	*Bar, Interlock	23	306-3436	2	*Switch Assembly, Auxiliary (See separate page for components)
9	800-0003	2	*Screw, Cap – Hex Head (1/4–20 x 1/2)				*Handle Assembly, Actuator (See separate page for components)
10	850-0040	2	*Washer, Lock (1/4)	24	306-0819	2	
11			*Contact Assembly, Normal				
	306-3431-01	1	3 Pole				
	306-3432-01	1	4 Pole				
12			*Screw, Cap – Hex Head				
			Front Connect				
			3 Pole				
	800-0050	3	800 Amp (3/8–16 x 1)				
	800-0051	3	1000 Amp (3/8–16 x 1–1/4)				
			4 Pole				
	800-0050	4	800 Amp (3/8–16 x 1)				
	800-0051	4	1000 Amp (3/8–16 x 1–1/4)				
			Rear Connect				
	800-0048	7	3 Pole (3/8–16 x 3/4)				
	800-0048	8	4 Pole (3/8–16 x 3/4)				
13			*Washer, Spring (3/8)				
	851-0022	6	3 Pole				
	851-0022	8	4 Pole				

* Parts included in Switch Assembly

Continued on next page.



Switch Assembly (Continued)



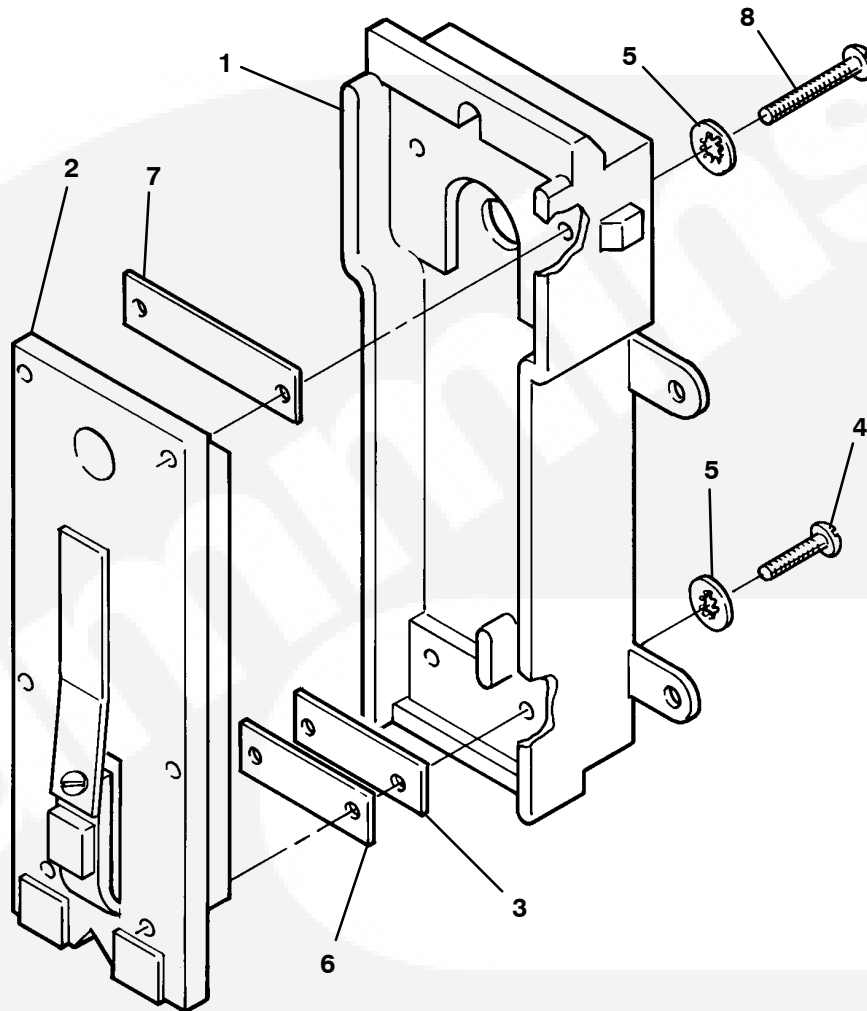
306-3454

Switch Assembly (Continued)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
25	815-0485	4	*Screw, Shoulder (#10-32)	41			*Cup, Insulator
26	850-0030	4	*Washer, Lock (#10)		306-3441	16	3 Pole
27			*Chute, Arc		306-3441	20	4 Pole
	306-0320	6	3 Pole	42			*Lug, Solderless – Normal
	306-0320	8	4 Pole				(Front Connect Only)
28			*Screw, Machine – Round Head				3 Pole
			(#8-32 x 1-1/2)		332-2735	3	800 Amp
	812-0087	12	3 Pole		332-2736	3	1000 Amp
	812-0087	16	4 Pole				4 Pole
29			*Washer, Lock (#8)		332-2735	4	800 Amp
	850-0025	12	3 Pole		332-2736	4	1000 Amp
	850-0025	16	4 Pole	43			*Lug, Solderless – Emergency
30			*Washer, Flat (#8)				(Front Connect Only)
	526-0003	12	3 Pole		332-2874	6	800 Amp
	526-0003	16	4 Pole		332-2875	6	1000 Amp
31			*Barrier, Chute – Arc	44			*Strap, Normal & Emergency
	306-0669	6	3 Pole		337-2397	6	3 Pole
	306-0669	8	4 Pole		337-2397	8	4 Pole
32			*Spacer, Chute – Arc	45	306-3449	2	*Block, Mounting – Jumper
	306-0668	12	3 Pole				(4 Pole Only)
	306-0668	16	4 Pole	47			*Washer, Lock – w/ET (3/8)
33			*Screw, Machine – Round Head				(Front Connect Only)
	815-0285	6	3 Pole		853-0018	3	3 Pole
	815-0285	8	4 Pole		853-0018	4	4 Pole
34			*Terminal, Tab	48			*Washer, Flat (3/8)
	332-2834	6	3 Pole				(Front Connect Only)
	332-2834	8	4 Pole		526-0030	3	3 Pole
35			*Spacer, Screw – Mounting		526-0030	4	4 Pole
	166-0122	3	3 Pole	49			*Screw, Cap – Hex Head
	166-0122	4	4 Pole				(3/8-16 x 1-1/4)
36			*Strap, Load				(Rear Connect Only)
			Front Connect		800-0053	6	3 Pole
			3 Pole		800-0053	8	4 Pole
	337-2332	3	800 Amp	50			*Screw, Cap – Hex Head
	337-2333	3	1000 Amp				(1/2-13 x 1-1/4)
			4 Pole				(Rear Connect Only)
	337-2332	4	800 Amp		800-0091	6	3 Pole
	337-2333	4	1000 Amp		800-0091	8	4 Pole
			Rear Connect	51	862-0003	4	*Nut, Hex (3/8-16)
	337-2398	3	3 Pole				(Rear Connect Only)
	337-2398	4	4 Pole	52			*Harness, Wiring
37			*Standoff, Insulator		338-2049	1	Front Connect
	332-2744-07	3	3 Pole		338-2217	1	Rear Connect
	332-2744-07	4	4 Pole	53	815-0799-0112		Screw, Cap – Socket Head
38			*Washer, Lock (3/8)				(1/2-13 x 2-1/4)
	850-0050	3	3 Pole				
	850-0050	4	4 Pole				
39			*Washer, Flat (3/8)				
	526-0029	3	3 Pole				
	526-0029	4	4 Pole				
40			*Support, Bus				
			Front Connect				
	306-3442	1	3 Pole				
	306-3499	1	4 Pole				
	306-3502	1	Rear Connect				

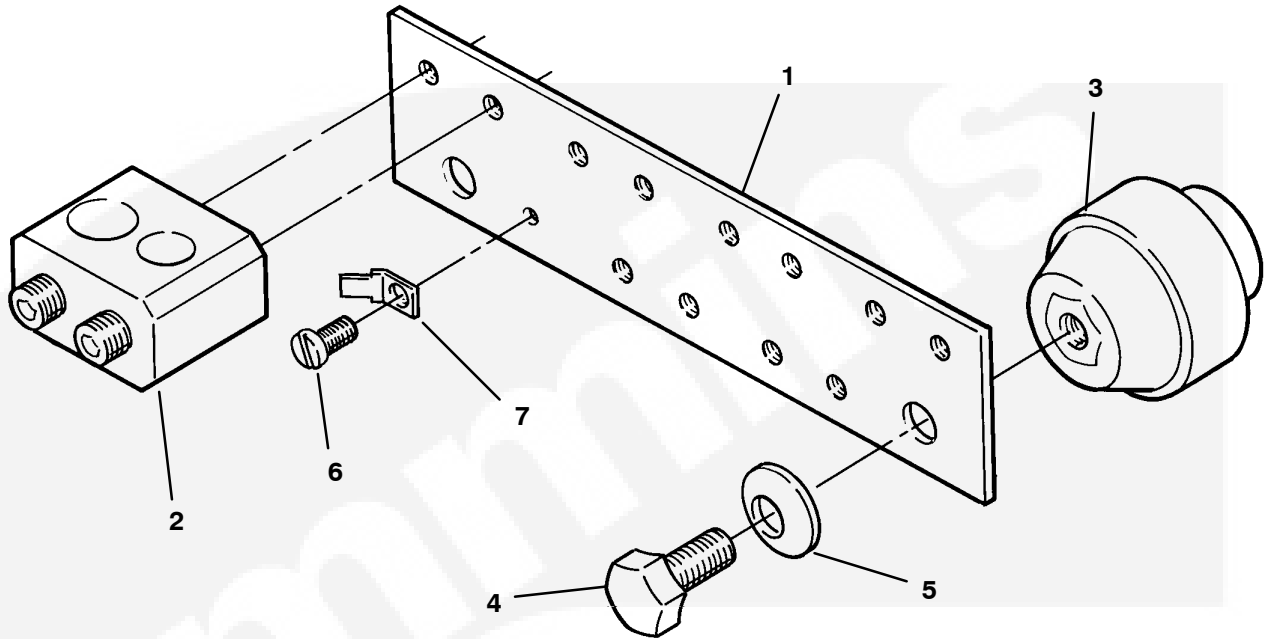
* Parts included in Switch Assembly

Line Strap Block Assembly



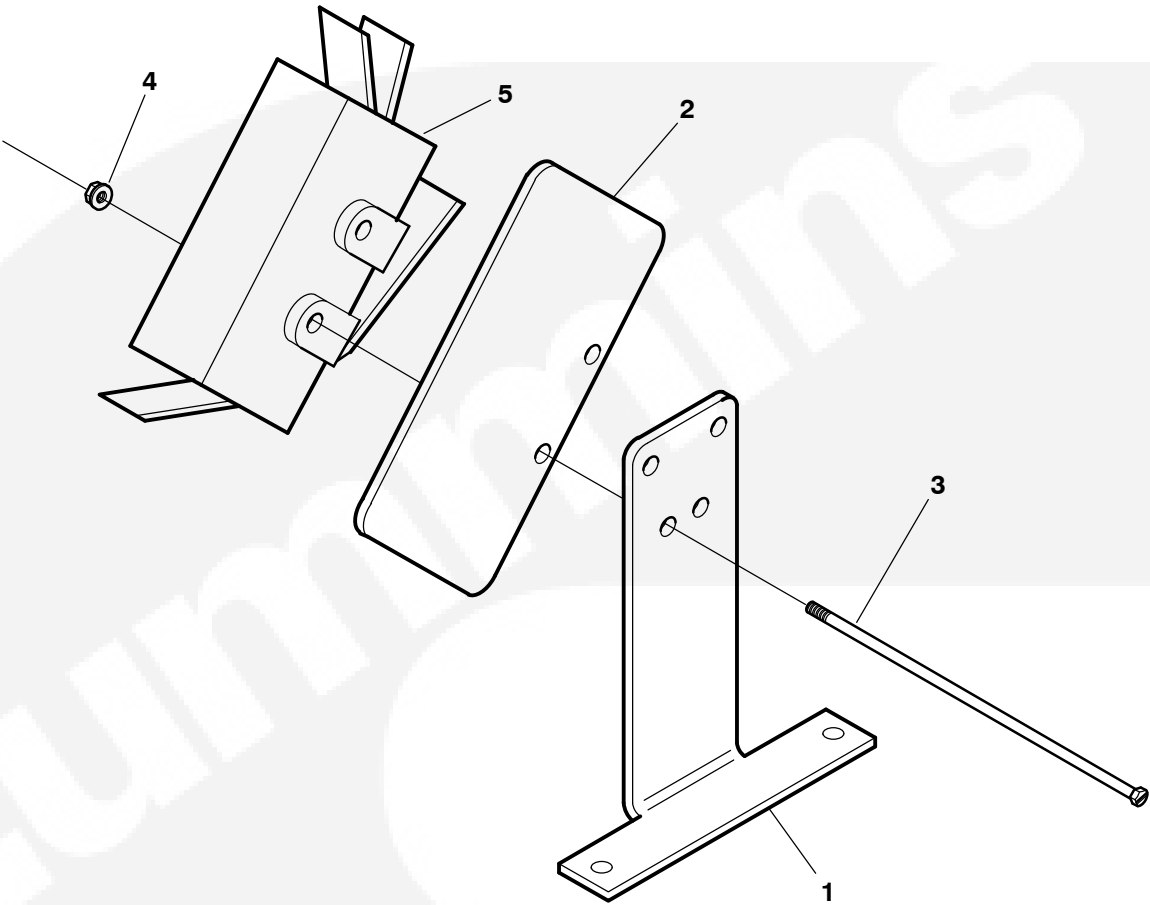
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Block Assembly, Strap – Line (Includes parts marked *)	4	813-0105	2	*Screw, Machine – Round Head (#10-32 x 7/8)
	306-3453-01	2	Inner	5	854-0010	4	*Washer, Lock – IT (#10)
	306-3453-02	4	Outer	6	370-0043	1	*Plate
	306-3453-02	6	3 Pole	7	370-0042	1	*Plate
1	306-2298	1	4 Pole	8	813-0107	2	*Screw, Machine – Round Head (#10-32 x 1-1/4)
2	306-2291	1	*Block, Mounting – Line Strap	* Parts included in Line Strap Block Assembly			
3	306-0603	2	*Strap, Line				
			*Spacer, Strap – Line (Outer Contact Only)				

Neutral Bar



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	337-2354	1	Bar, Neutral	5	851-0022	2	Spring, Disc – Conical (3/8)
2	332-2660	6	Lug, Solderless	6	815-0285	1	Screw, Machine – Round Head w/ET (#8-32 x 5/8)
3	332-2512	2	Insulator, Standoff	7	332-2834	1	Terminal, Tab
4	800-0049	2	Screw, Cap – Hex Head (3/8-16 x 7/8)				

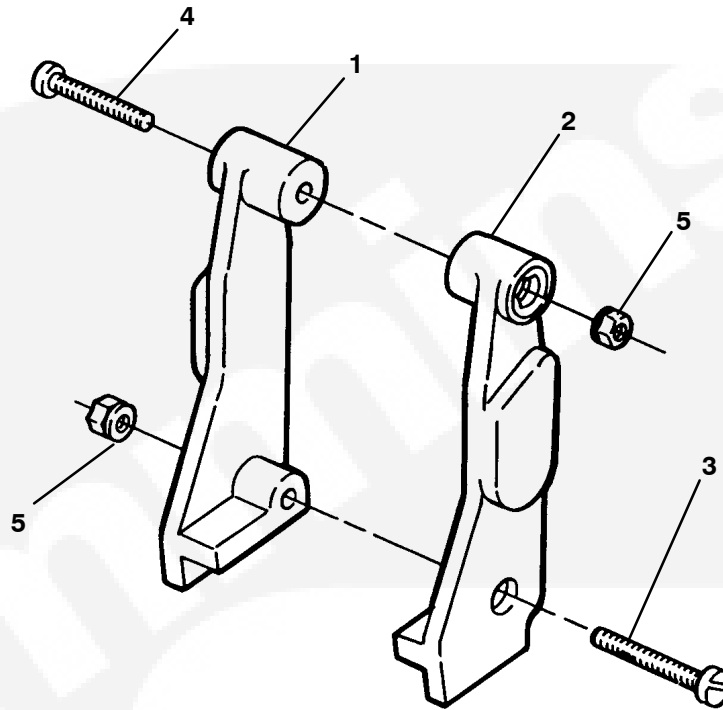
Auxiliary Switch Assembly



306-3436

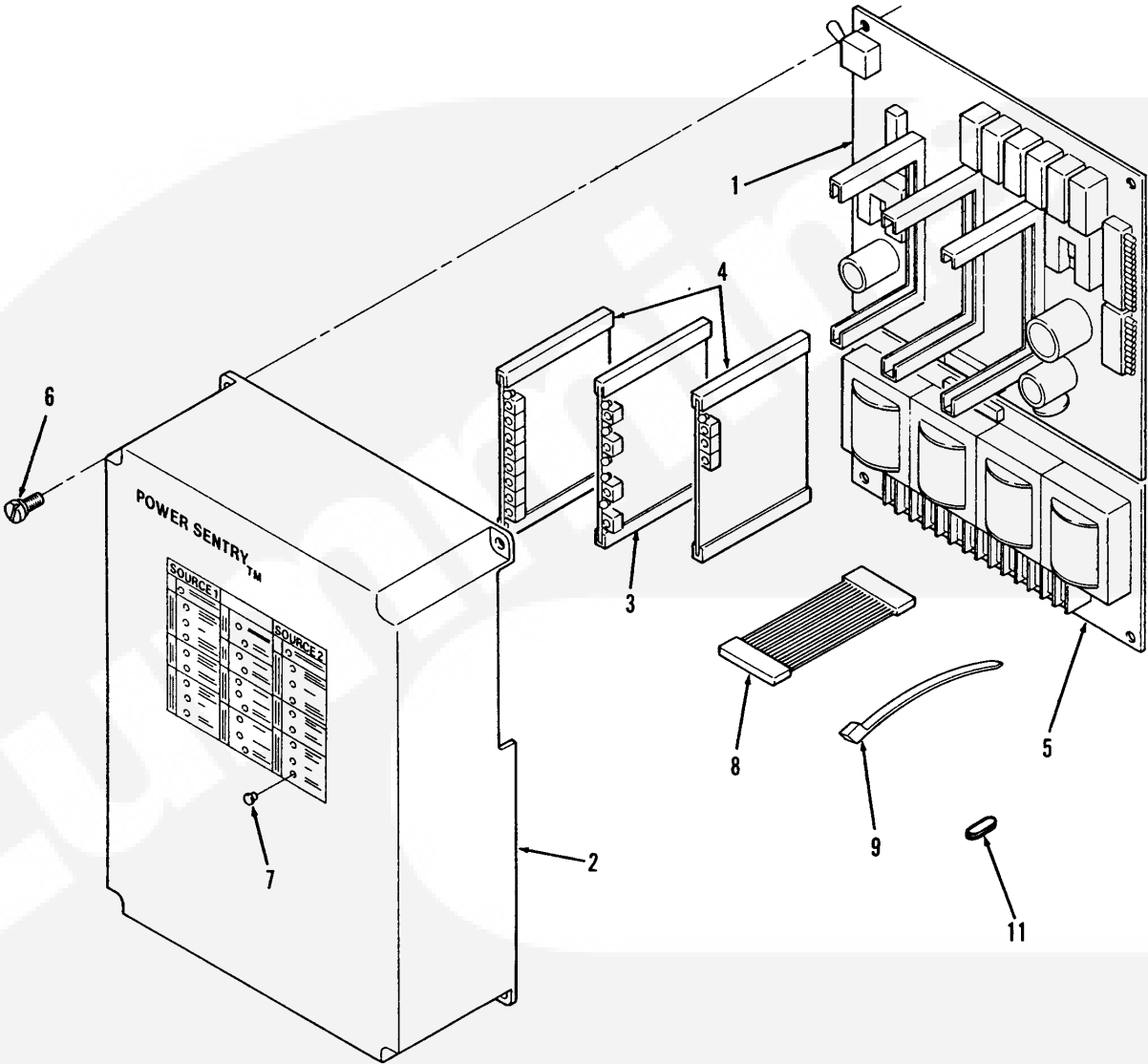
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-3436	2	Switch Assembly, Auxiliary (Includes parts marked *)	4	870-0201	2	*Nut, Hex – Self-Locking (#6-32)
1	306-3435	2	*Bracket, Switch – Auxiliary	5	309-0393	4	*Switch, Snap-Action
2	306-3391	5	*Barrier, Switch	* Parts included in 306-3436 Auxiliary Switch Assembly			
3	815-0686	2	*Screw, Slotted – Hex Head (#6-32 x 3-1/4)				

Actuator Handle Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	306-0819	2	Handle Assembly – Actuator (Includes parts marked *)	4	815-0933	1	Screw, Machine – Round Head (#10-32 x 1-3/4)
1	306-0643	1	*Handle, Switch – Right Hand	5	870-0298	2	*Nut, Lock (#10-32)
2	306-0644	1	*Handle, Switch – Left Hand	* Parts included in 306-0819 Actuator Handle Assembly			
3	815-0934	1	*Screw, Machine – Round Head (#10-32 x 2)				

Control Assembly

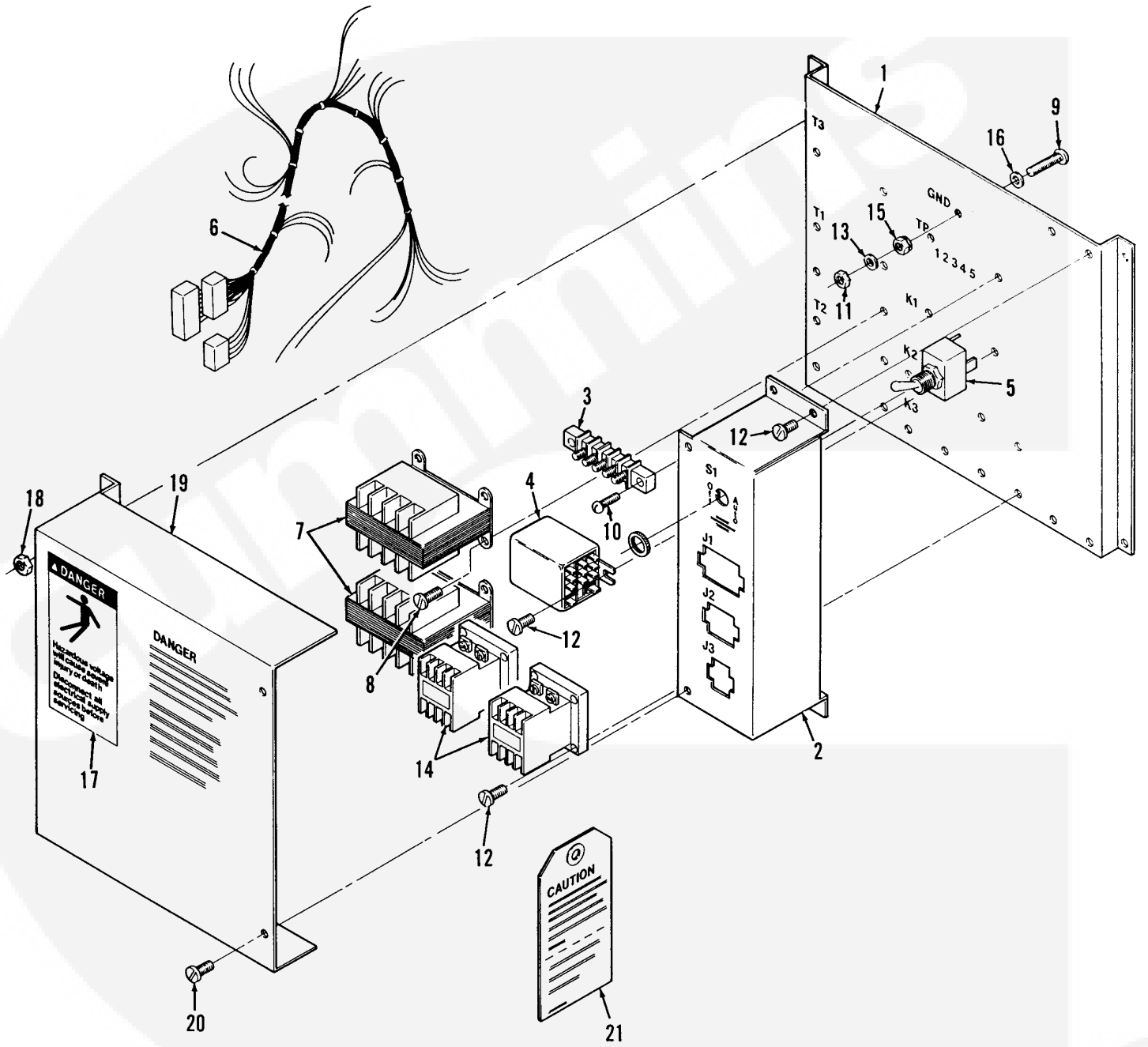


Control Assembly

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, PC – Mother		300-3118	1	347/600 Volt, 3 Ph., 4 Wire
	300-3953-01	1	Utility to Genset				50 Hertz
	300-3267	1	Genset to Genset				
2	306-3470	1	Cover, Board – PC (Includes Labels)		300-3092	1	220 Volt, 1 Ph., 2 Wire
	098-5661	1	Label, Cover		300-3092	1	115/200 Volt, 1 Ph., 3 Wire
	098-5766	1	Label, Switch		300-3092	1	220/380 Volt, 3 Ph., 4 Wire
3			Board, PC – Time Delay				
	300-3094	1	Standard Time Delay (J2)		300-3092	1	120/208 Volt, 3 Ph., 4 Wire
	300-3261	1	90 Second Extended Time Delay		300-3092	1	240/416 Volt, 3 Ph., 4 Wire
4			Board, PC – Voltage Sensor (J1, J3)	6	815-0544	9	Screw, Round Head – w/IT (#6-32 x 1/2)
	300-3121	1	Undervoltage (50Hz. & 60 Hz.)	7	517-0256	10	Plug, Hole
			Over/Under Voltage & Over/ Under Frequency	8	323-1387	1	Pin Assembly, Ribbon
	300-3093-01	1	60 Hertz	9	332-1877	5	Tie, Cable
	300-3093-02	1	50 Hertz	11	332-1917	3	Plug, Keying
	300-4275	1	Undervoltage (5 sec.)				
	300-4276-01	1	Overvoltage (5 sec.) (60 Hz.)				
	300-4276-02	1	Overvoltage (5 sec.) (50 Hz.)				
5			Board, PC – Transformer				
			60 Hertz				
	300-3119	1	120 Volt, 1 Ph., 2 Wire				
	300-3092	1	120/240 Volt, 1 Ph., 3 Wire				
	300-3092	1	120/208 Volt, 3 Ph., 4 Wire				
	300-3092	1	120/240 Volt, 3 Ph., 4 Wire				
	300-3092	1	240/480 Volt, 3 Ph., 4 Wire				
	300-3092	1	220/380 Volt, 3 Ph., 4 Wire				
	300-3092	1	277/480 Volt, 3 Ph., 4 Wire				



Accessory Control Plate (All Except 600 Volt)



Accessory Control Plate (All Except 600 Volt)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9754	1	Plate, Door				Load Shed From Emergency
	098-5773	1	Label				60 Hertz
	098-5680	1	Standard	338-2099	1		120 Volt, 1 Ph., 2 Wire
			Load Shed	338-2100	1		120/240 Volt, 1 Ph.,
2	301-9774	1	Bracket (Includes Label)				3 Wire
	098-5681	1	Label	338-2100	1		120/208 Volt, 3 Ph.,
3	332-2884	1	Block, Terminal				4 Wire
4			#*Relay, 3PDT – 24 VAC	338-2100	1		120/240 Volt, 3 Ph.,
	307-2575	2	Standard (K1, K2)				4 Wire
	307-2575	1	Load Shed From Emergency	338-2100	1		240/480 Volt, 3 Ph.,
			(K1)				4 Wire
5	308-0406	1	Switch, Toggle – DPDT	338-2100	1		220/380 Volt, 3 Ph.,
6			Harness, Wiring – Main				4 Wire
			Standard	338-2100	1		277/480 Volt, 3 Ph.,
			60 Hertz				4 Wire
	338-2073	1	120 Volt, 1 Ph., 2 Wire	338-2100	1		347/600 Volt, 3 Ph.,
	338-2064	1	120/240 Volt, 1 Ph.,				4 Wire
			3 Wire				50 Hertz
	338-2064	1	120/208 Volt, 3 Ph.,	338-2100	1		220 Volt, 1 Ph., 2 Wire
			4 Wire	338-2100	1		115/200 Volt, 1 Ph.,
	338-2064	1	120/240 Volt, 3 Ph.,				3 Wire
			4 Wire	338-2100	1		220/380 Volt, 3 Ph.,
	338-2064	1	240/480 Volt, 3 Ph.,				4 Wire
			4 Wire	338-2100	1		120/208 Volt, 3 Ph.,
	338-2064	1	220/380 Volt, 3 Ph.,				4 Wire
			4 Wire	338-2100	1		240/416 Volt, 3 Ph.,
	338-2064	1	277/480 Volt, 3 Ph.,				4 Wire
			4 Wire	338-3231	1		Non-Automatic (120 Volt
	338-2064	1	347/600 Volt, 3 Ph.,				Only)
			4 Wire				
			50 Hertz				
	338-2064	1	220 Volt, 1 Ph., 2 Wire				
	338-2064	1	115/200 Volt, 1 Ph.,				
			3 Wire				
	338-2064	1	220/380 Volt, 3 Ph.,				
			4 Wire				
	338-2064	1	120/208 Volt, 3 Ph.,				
			4 Wire				
	338-2064	1	240/416 Volt, 3 Ph.,				
			4 Wire				

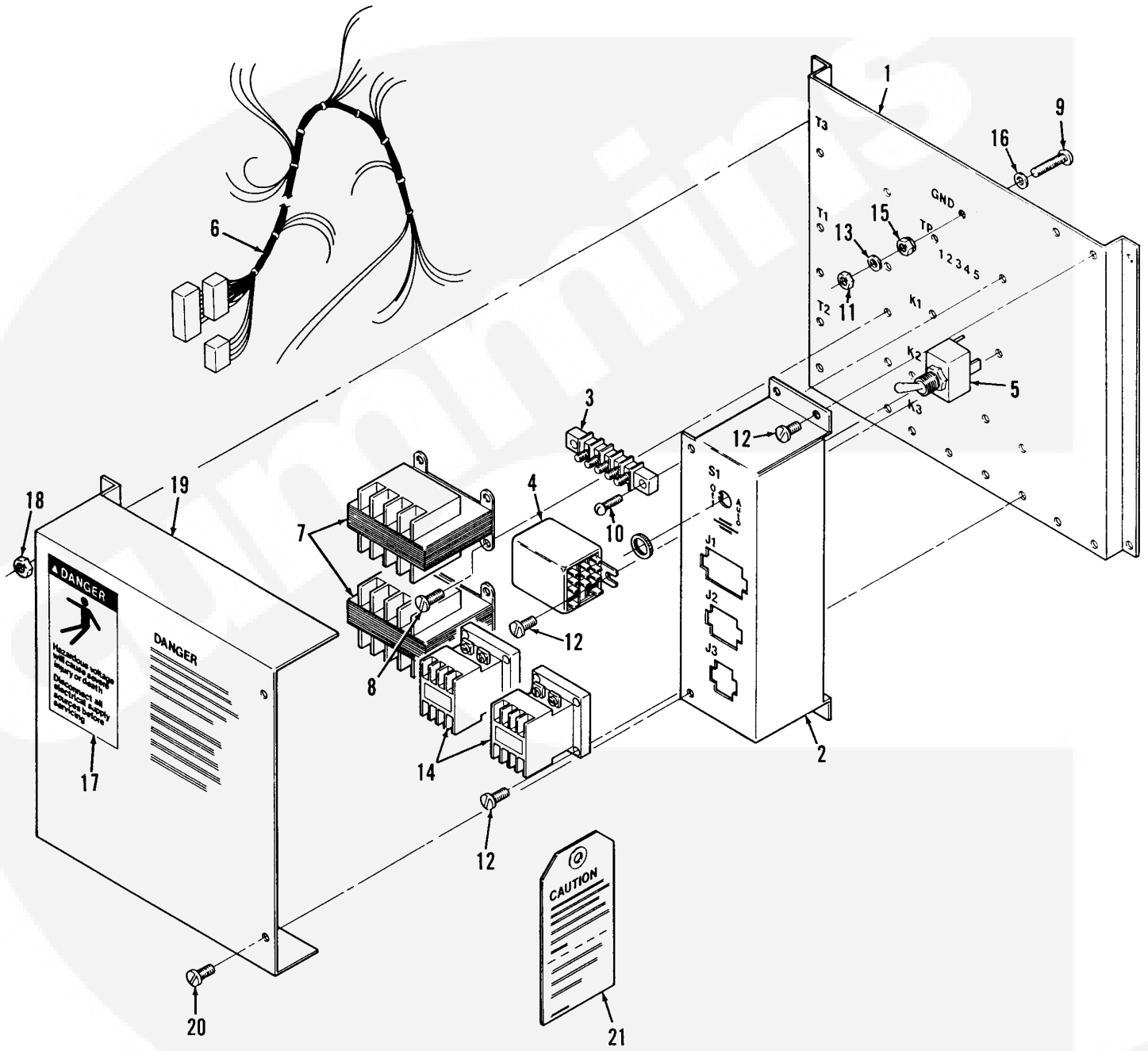
* Load Shed Units use Reference #14

Note: If customer requests K2 Relay, If K4 filled, supply 307-2648. If not, supply 307-2575.

Continued on next page.



Accessory Control Plate (All Except 600 Volt)



**Accessory Control Plate
(All Except 600 Volt)
(Continued)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7			Transformer, Power (T1, T2)	9	810-0085	1	Screw, Machine – Round Head
			60 Hertz				Brass (#8-32 x 1-1/8)
	315-0655-01	2	120 Volt, 1 Ph., 2 Wire	10	815-0539	2	Screw, Machine – Round Head
	315-0655-02	2	120/240 Volt, 1 Ph.,				w/IT (#8-32 x 5/8)
			3 Wire	11	860-0008	1	Nut, Hex (#8-32)
	315-0655-02	2	120/208 Volt, 3 Ph.,	12	815-0555	14	Screw, Pan Head – w/ET
			4 Wire				(#6-32 x 3/8)
	315-0655-02	2	120/240 Volt, 3 Ph.,	13	526-0048	1	Washer, Flat (#8)
			4 Wire	14	307-2648	2	#Relay, 4 Pole – 24 VAC (Load
	315-0655-02	2	240/480 Volt, 3 Ph.,				Shed from Emergency Only)
			4 Wire				(K2, K4)
	315-0655-02	2	220/380 Volt, 3 Ph.,	15	870-0221	1	Nut, Lock – w/ET (#8-32)
			4 Wire	16	856-0002	1	Washer, Lock – w/EIT (#8)
	315-0655-02	2	277/480 Volt, 3 Ph.,	17	098-5387	4	Label, Danger
			4 Wire	18	870-0131	6	Nut, Lock – w/ET (#10-32)
	315-0655-03	2	347/600 Volt, 3 Ph.,	19	301-9961	1	Shield (Includes Label)
			4 Wire		098-5699	1	Label
			50 Hertz	20	815-0544	8	Screw, Round Head – w/IT
	315-0655-02	2	220 Volt, 1 Ph., 2 Wire				(#6-32 x 1/2)
	315-0655-02	2	115/200 Volt, 1 Ph.,	21	098-5589	1	Label, Caution
			3 Wire				
	315-0655-03	2	220/380 Volt, 3 Ph.,				
			4 Wire				
	315-0655-02	2	120/208 Volt, 3 Ph.,				
			4 Wire				
	315-0655-03	2	240/416 Volt, 3 Ph.,				
			4 Wire				
8	821-0040	8	Screw, Flanged – Self-Locking (#10-32 x 5/16)				

* Load Shed Units use Reference #14

Note: If customer requests K2 Relay, If K4 filled, supply 307-2648. If not, supply 307-2575.

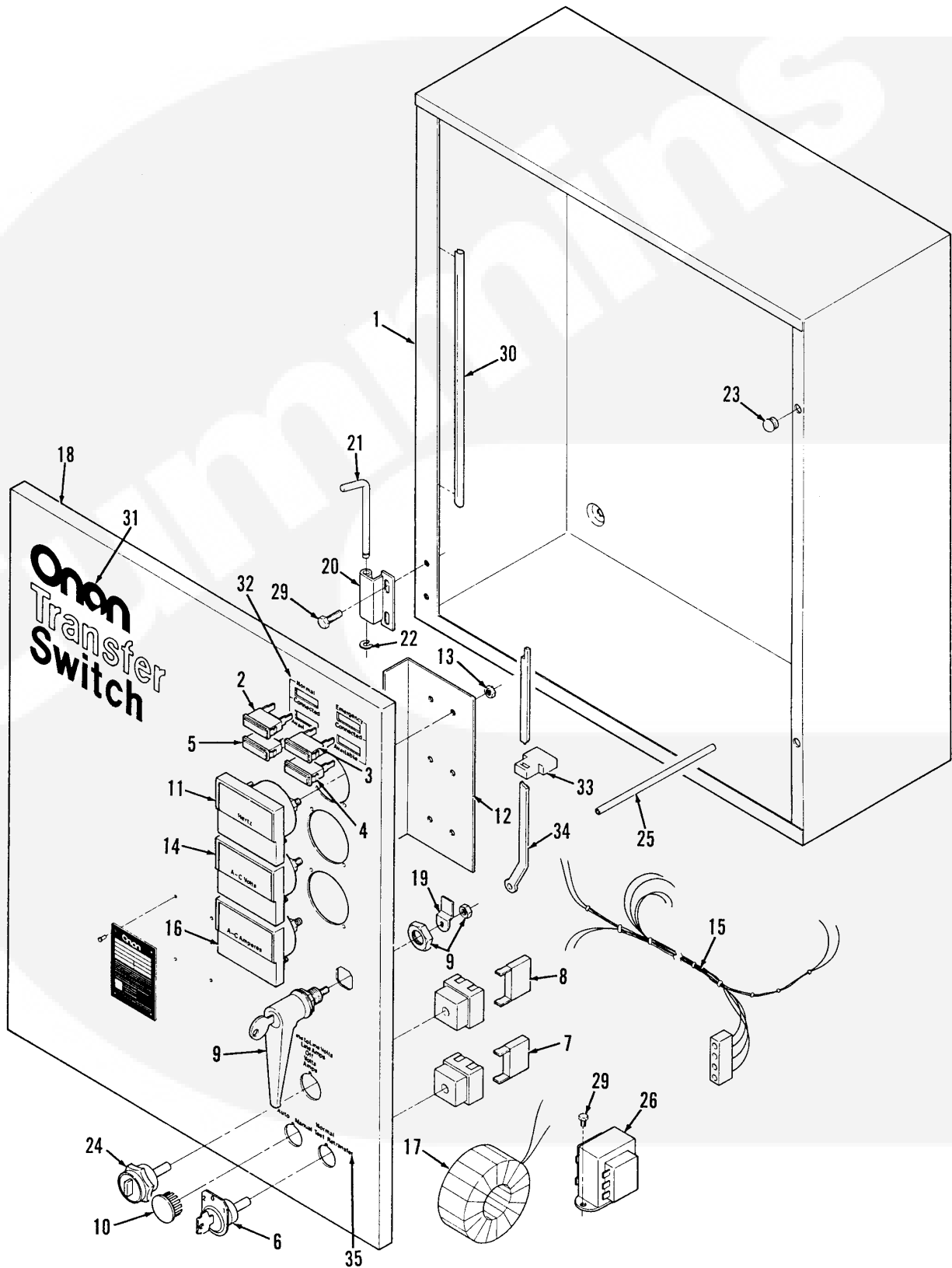
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Accessory Control Plate (600 Volt Only)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0009	1	Plate (Includes Label)	11	860-0008	1	Nut, Hex (#8-32)
	098-5734	1	Label	12	815-0550	6	Screw, Pan Head – Cross Recessed W/ET (#6-32 x 3/8)
2	301-9774	1	Bracket (Includes Label)	13	526-0048	1	Washer, Flat (#8)
	098-5681	1	Label	14	307-2648	1	Relay, 4 Pole – 24 VAC (Load Shed from Emergency Only)
3	332-2884	1	Block, Terminal	15	870-0221	1	Nut, Lock – W/ET (#8-32)
4	307-2877	1	Contactor, Interlocking (24 VAC)	16	856-0002	1	Washer, Lock – w/EIT (#8)
5	308-0406	1	Switch, Toggle	17	098-5387	4	Label, Danger
6			Harness, Wiring – Main (600 V)	18	870-0131	6	Nut, Lock – W/ET (#10-32)
	338-2074	1	Standard	19	301-9961	1	Shield (Includes Label)
	338-2101	1	*Load Shed from Emergency		098-5699	1	Label
	338-2343	1	Non-Automatic	20	815-0544	8	Screw, Machine – Round Head W/IT (#6-32 x 1/2)
7	315-0655-04	2	Transformer, Power (T1, T2)	21	098-5589	1	Label, Caution
8	821-0040	8	Screw, Self-Locking – Flanged (#10-32 x 5/16)	22	307-2600-01	1	Block, Auxiliary
9	810-0085	1	Screw, Machine – Round Head (#8-32 x 1-1/8)				
10	815-0538	2	Screw, Machine – Round Head Cross Recessed W/IT (#8-32 x 5/8)				

* Load Shed Units use Reference #14.

Door and Cabinet

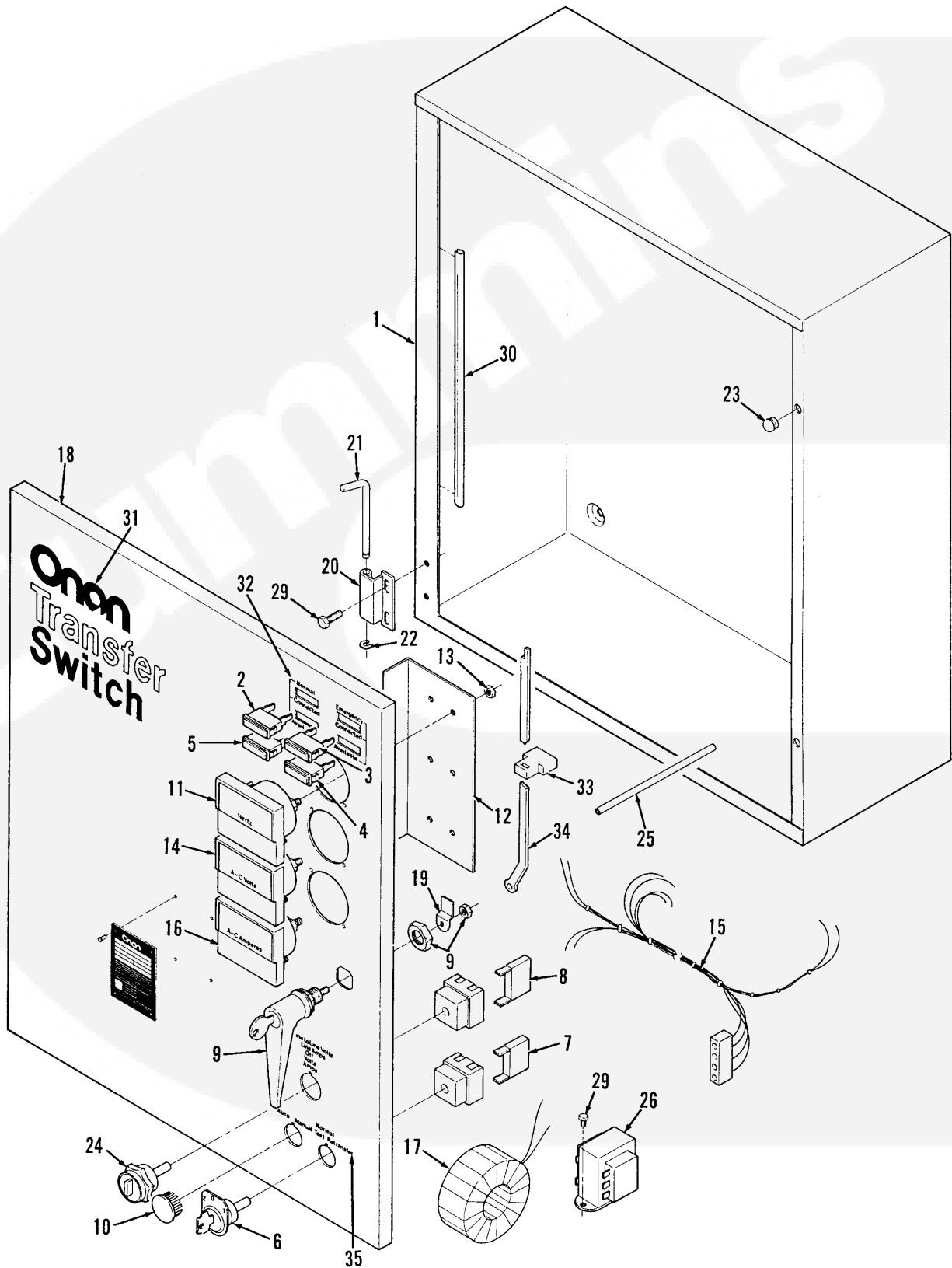


Door and Cabinet

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cabinet, Control	15			Harness, Wiring – Meter
	319-3445	1	NEMA 1				60 Hertz
	319-0388	1	NEMA 3R		338-2135	1	120 Volt, 1 Ph., 2 Wire
	319-0185	1	NEMA 4		338-2136	1	120/240 Volt, 1 Ph., 3 Wire
	319-0388-01	1	NEMA 12				120/208 Volt, 3 Ph., 4 Wire
			Spec K		338-2136	1	120/240 Volt, 3 Ph., 4 Wire
	319-0389-01	1	NEMA 1		338-2136	1	240/480 Volt, 3 Ph., 4 Wire
	319-1106	1	NEMA 3R				220/380 Volt, 3 Ph., 4 Wire
	319-1107	1	NEMA 4		338-2065	1	277/480 Volt, 3 Ph., 4 Wire
	319-1106-01	1	NEMA 12		338-2065	1	347/600 Volt, 3 Ph., 4 Wire
2	322-0170	1	Light, Indicating – Normal (Green)				50 Hertz
3	322-0137	1	Light, Indicating – Emergency (Red)				115/200 Volt, 1 Ph., 3 Wire
4	322-0387-02	1	Light, Indicating – Emergency Source Available (Clear)		338-2136	1	220/380 Volt, 3 Ph., 4 Wire
5	322-0168	1	Light, Indicating – Normal Source Available (Amber)		338-2065	1	120/208 Volt, 3 Ph., 4 Wire
6			Switch, Selector (Includes Key)		338-2065	1	240/416 Volt, 3 Ph., 4 Wire
			Spec G & H				Open Construction
	308-0848	1	NEMA 1		338-3203	1	Meter, Ampere
	308-0849	1	Key, Replacement – NEMA 1				800 Amp
	308-0886	1	NEMA 3R		302-1732	1	1000 Amp
	308-0988	1	Key, Replacement – NEMA 3R		302-1733	1	Harness & Current Transformer
	308-1054	1	Fire Pump Switch				1 Phase
	308-1055	1	Fire Pump Switch				800 Amp
	308-0989	1	Key, Replacement				1000 Amp
			Spec J	16			3 Phase
	308-0994	1	Utility to Genset				800 Amp
	308-0991	1	Genset to Genset				1000 Amp
	308-0990	1	Utility to Utility	17			Door, Cabinet
7	308-0854	1	Block, Contact – N.C. (1 Phase)				NEMA 1
8	308-0850	1	Block, Contact – N.O. (1 Phase)		338-2204-10AR		With Meter Holes
9	406-0912	1	Handle, Keyed (Includes Key)		338-2204-11AR		Without Meter Holes
	406-0649	1	Key, Replacement				NEMA 3R
10	517-0137	AR	Plug, Hole		338-2205-10AR		With Meter Holes
11	302-1992	1	Meter, Frequency (45 – 65 Hz.)		338-2205-11AR		Without Meter Holes
12	306-3464	1	Shield, Meter	18			NEMA 4
13	870-0439	6	Nut, Nylon				With Meter Holes
14			Meter, Volt – AC				Without Meter Holes
			60 Hertz		319-3454	1	NEMA 12
	302-1692	1	120 Volt, 1 Ph., 2 Wire		319-3455	1	With Meter Holes
	302-1175	1	120/240 Volt, 1 Ph., 3 Wire				Without Meter Holes
	302-1175	1	120/208 Volt, 3 Ph., 4 Wire		319-0387-01	1	Spec K
	302-1175	1	120/240 Volt, 3 Ph., 4 Wire		319-0387-02	1	NEMA 1
	302-1711	1	240/480 Volt, 3 Ph., 4 Wire				With Meter Holes
	302-1711	1	220/380 Volt, 3 Ph., 4 Wire		319-0179-01	1	Without Meter Holes
	302-1711	1	277/480 Volt, 3 Ph., 4 Wire		319-0179-02	1	NEMA 12
	302-1710	1	347/600 Volt, 3 Ph., 4 Wire				With Meter Holes
			50 Hertz		319-0387-05	1	Without Meter Hole
	302-1175	1	220 Volt, 1 Ph., 2 Wire		319-0387-06	1	Spec K
	302-1175	1	115/200 Volt, 1 Ph., 3 Wire				NEMA 1
	302-1711	1	220/380 Volt, 3 Ph., 4 Wire		301-9788-01	1	With Meter Holes
	302-1175	1	120/208 Volt, 3 Ph., 4 Wire		301-9836-01	1	Without Meter Holes
	302-1711	1	240/416 Volt, 3 Ph., 4 Wire				NEMA 3R
					319-0387-03	1	With Meter Holes
					319-0387-04	1	Without Meter Holes
							NEMA 4
					319-0179-03	1	With Meter Holes
					319-0179-04	1	Without Meter Holes
							NEMA 12
					319-0387-05	1	With Meter Holes
					319-0387-06	1	Without Meter Holes

Continued on next page.

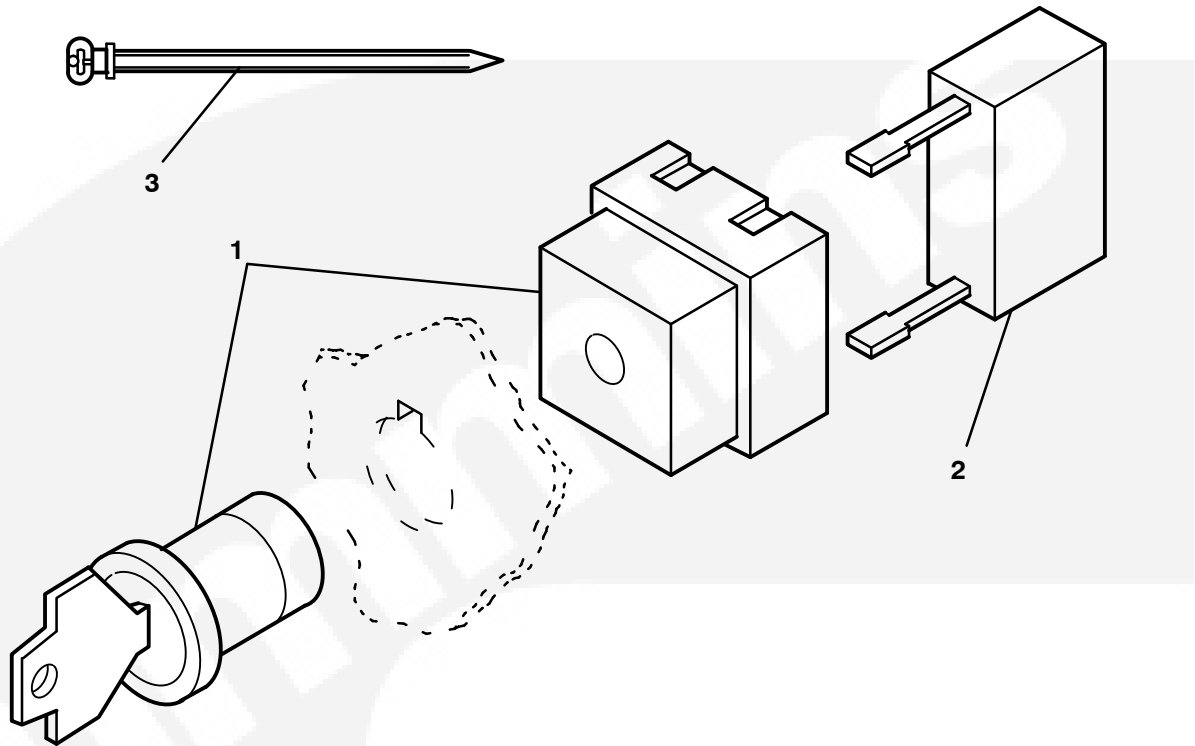
Door and Cabinet (Continued)



Door and Cabinet (Continued)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
19	306-4341	1	Latch, Cam (NEMA 1)	44	319-0145	1	*#Cover, Meter (Not Illustrated)
20	406-0909	3	Hinge, Door	45	319-0146	1	*#Gasket, Cover – Meter (Not Illustrated)
21	406-0610-03	3	Pin, Hinge	46	318-0404	1	*#Adhesive (Not Illustrated)
22	406-0610-04	3	Clip, Pin	47	508-0233	AR	Washer, Rubber (Not Illustrated)
23	508-0231	3	Bumper	48	870-0386	16	Nut, Acorn (Not Illustrated)
24			Switch, Selector	49			*#Gasket, Door (Not Illustrated)
	308-0905	1	1 Phase		895-0293-09	2	28.68" Long
	308-0904	1	3 Phase		895-0293-10	2	65.24" Long
25	898-0778	1	Sleeving, Insulation	50	306-3525	1	*Latch, Cam – 3 Point (NEMA 3R) (Not Illustrated)
26			Transformer (T3)	51	526-0022	7	Washer, Flat (Not Illustrated)
	315-0731	1	380/416 Volt	52	812-0177	8	#Screw, Machine – Round Head (Not Illustrated)
	315-0377	1	480/600 Volt	53	406-0519	8	#Spring, Conical (Not Illustrated)
29	821-0004	4	Screw, Lock (#10-32 x .31)	54	301-6727	8	#Bracket, Door (Not Illustrated)
30	508-1045	2	Edging	55	098-5777-01	1	Label, Warning (Not Illustrated)
31	098-5692	1	Label, Product ID	56	517-0266	AR	*#Plug, Hole (Not Illustrated)
32	098-5693	1	Label, Lamp	57	870-0439	1	Nut, Acorn (Not Illustrated)
33	306-3464	2	Guide, Rod	58	098-5811	1	Tag, Caution (Not Illustrated)
34	306-3468-03	2	Roller, Rod	59	525-0305	1	Paint, 13 oz. Spray Can (Green) (Not Illustrated)
35			Label, Door	60	098-6367	1	Label, Torque (Not Illustrated)
	098-5696	1	With Switch				
	098-5697	1	Without Switch				
36	098-5387	1	Label, Danger				
37	870-0131	11	Nut, Hex (Not Illustrated)				
38	301-9961	1	Shield & Label Assembly (Not Illustrated)				
39	332-2877	5	Tie, Cable (Not Illustrated)				
40	870-0257	6	Nut, Lock (Not Illustrated)				
41	815-0544	2	Screw, Round Head (Not Illustrated)				
42	098-5589	1	Label, Caution (Not Illustrated)				
43	332-1348	2	Spacer, Bar – Neutral (Not Illustrated)				
					* NEMA 3R		
					# NEMA 4		

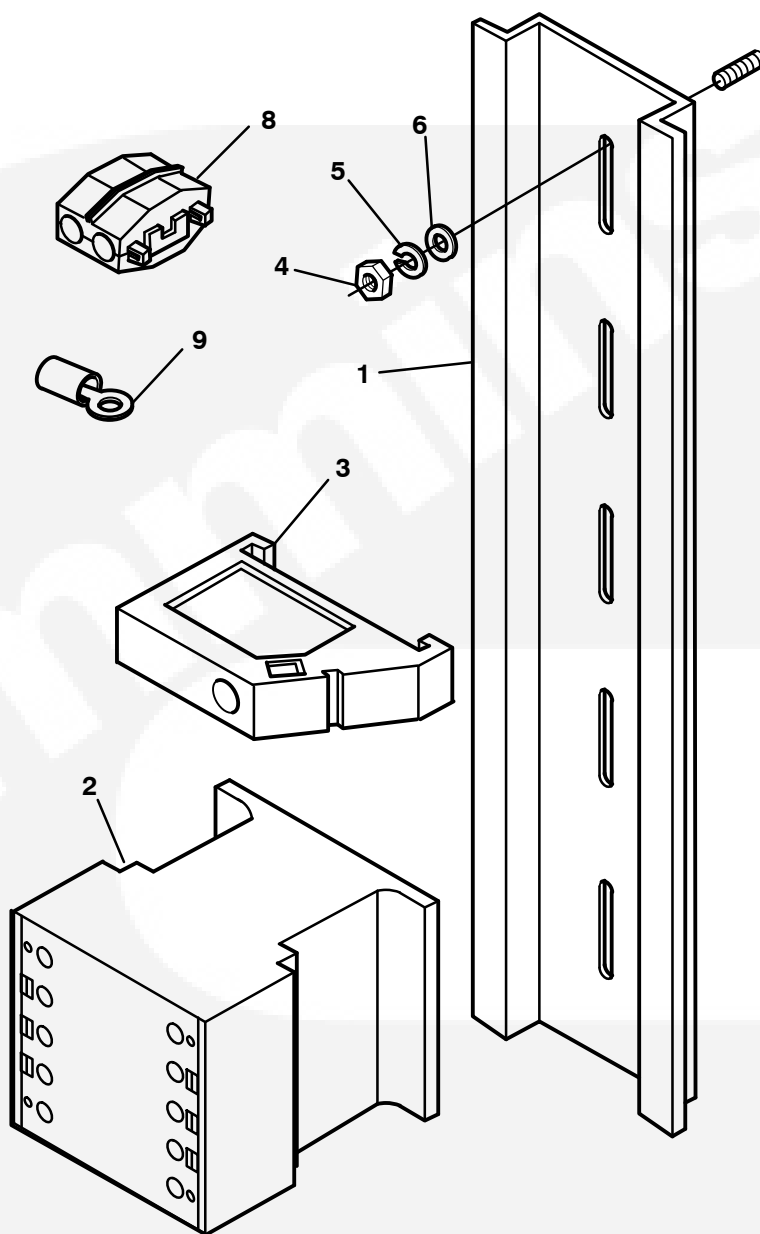
Auto/Manual Switch



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Switch, Selector (S12) (Includes Key)	3			Tie, Cable
			Spec G & H		332-0942	10	Units with Cabinet
	308-0851	1	NEMA 1		332-0941	10	Open Construction
	308-0849	1	Key, Replacement		308-0955	1	*Switch, Selector (S14)
	308-0886	1	NEMA 4		308-0989	1	Key, Replacement
	308-0988	1	Key, Replacement		307-2578	2	*Relay, Control
			Spec J		815-0446	4	*Screw, Round Head – Cross Recessed w/IT (#8-32 x 1/2)
	308-0990	1	NEMA 1		332-0802	1	*Terminal, Ring (#8)
	308-0989	1	Key, Replacement		098-6561	1	*Label, Operation
			Open Construction		332-2420	2	*Mount, Tie – Cable
	308-0990	1	Utility to Genset		098-6697	1	*Label, Switch
	308-0989	1	Key, Replacement		532-0374	1	*Marker, Adhesive – Relay
	308-0957	1	Utility to Utility				
	308-0989	1	Key, Replacement				
2	308-0850	1	Block, Contact – Normally Open				

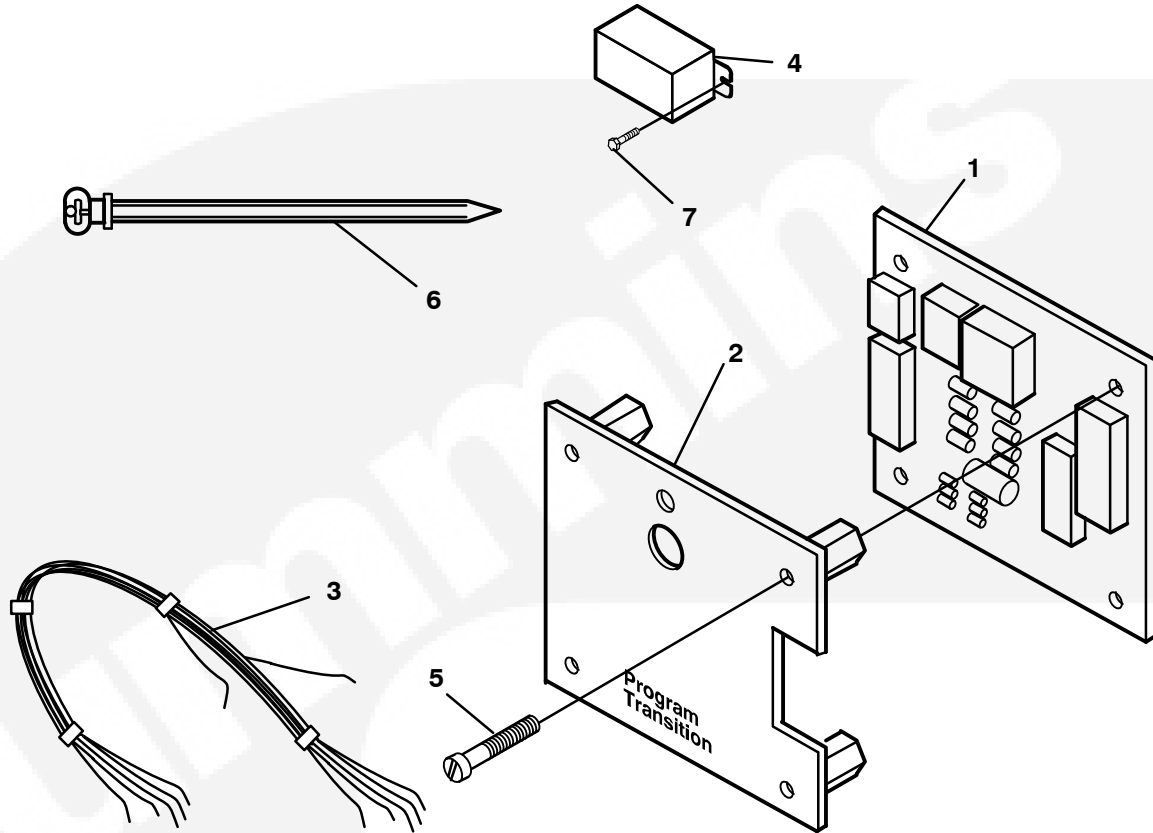
* Parts used on Open Construction Utility to Utility Only (Not Illustrated)

Auxiliary Relay



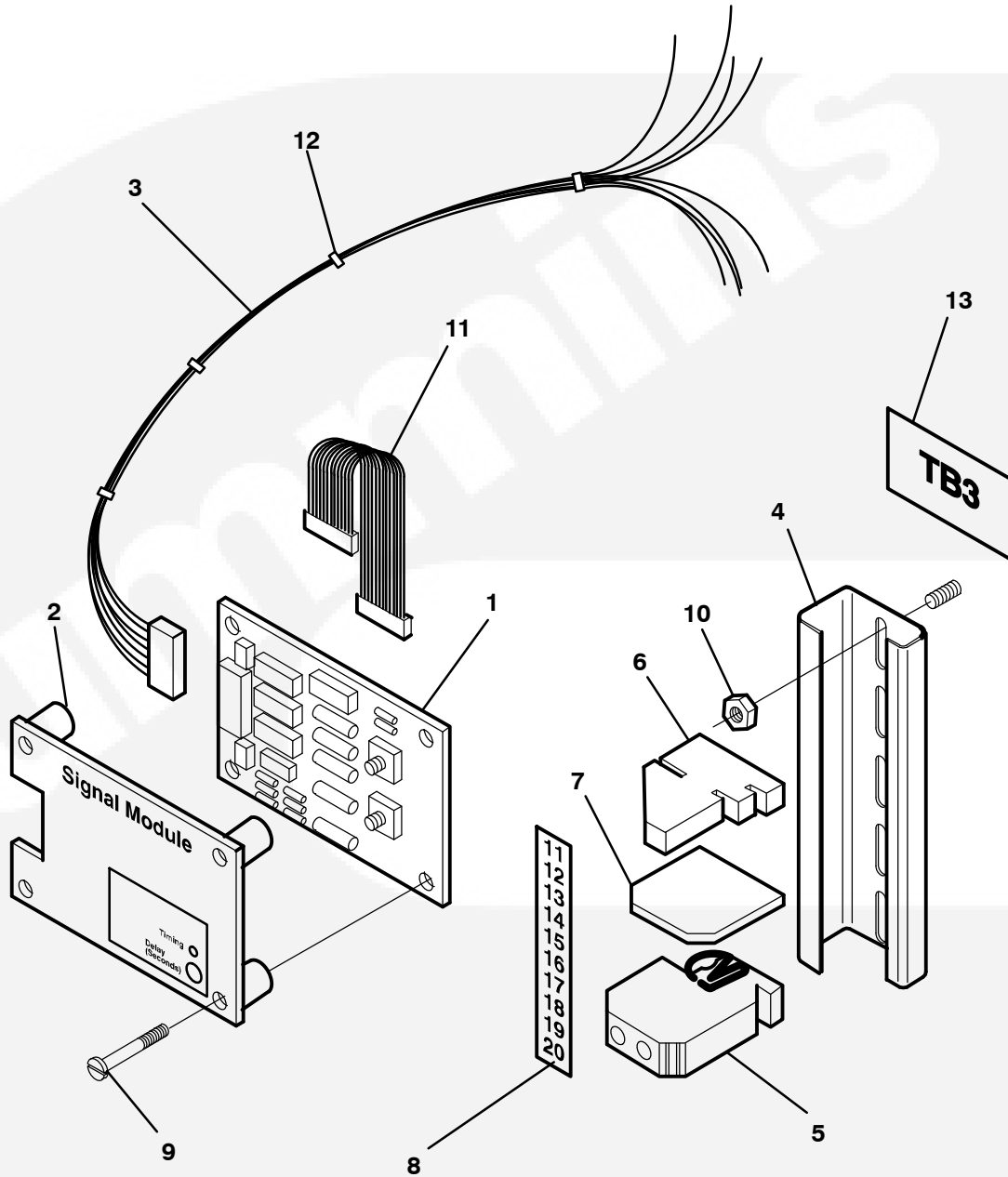
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2879-02	1	Rail, Terminal	5	853-0005	2	Washer, Lock ET (#8)
2	307-2578	1	Relay, Control	6	526-0003	2	Washer, Flat (#8)
	307-2582	1	24 VAC	7	334-1842	1	Wire, 16 AWG – 600V TEW (12") (Not Shown)
	307-2583	1	12 VDC	8	332-2230	1	Terminal, Tap – Plier
3	332-2878	2	24 VDC	9	332-0802	1	Terminal, Ring (#8)
4	860-0008	2	Bracket, End				
			Nut, Hex (#8-32)				

Programmed Transition



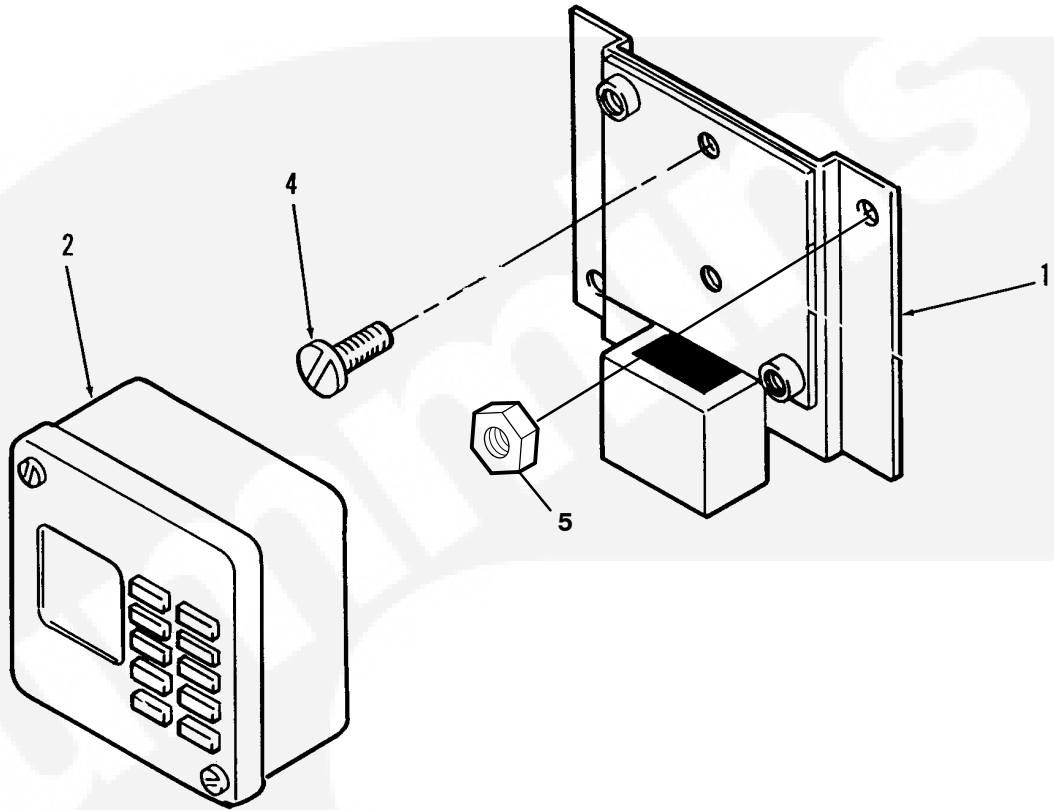
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Board, Printed Circuit – Programmed Transition	4	307-2591	1	Relay, Programmed Transition (K3)
	300-3115-01	1	07.5 Seconds	5	815-0680	4	Screw, Machine – Pan Head Cross Recessed W/ET (#6-32 x 1)
	300-3115-02	1	60.0 Seconds	6	332-0942	8	Tie, Cable
2			Cover, Programmed Transition (Includes Silkscreen)	7	815-0550	2	Screw, Pan Head – Recessed W/ET (#6-32 x 3/8)
	301-9928-01	1	07.5 Seconds				
	301-9928-02	1	60 Seconds				
3	338-2139	1	Harness, Wiring – Programmed Transition				

Elevator Signal



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3096	1	Board, Printed Circuit – Elevator Signal (Includes Fuses)	7	332-2841	1	Plate, End – Terminal Tag, Terminal
	321-0174	5	Fuse, 5 Amp 250 Volt (F1-F5)	8	332-2842-12	2	Spec G (11-20)
2	301-9932	1	Cover, Signal – Elevator (Includes Label)		332-2842-13	2	Spec H & J (21-30)
3			Harness, Wiring – Elevator Signal	9	815-0680	4	Screw, Pan Head Recessed W/ET (#6-32 x 1)
	338-2141	1	Spec G	10	870-0221	2	Nut, Lock W/ET (#8-32)
	338-2140	1	Spec H & J	11	323-1409	1	Pin and Ribbon Assembly
4	332-2837-09	1	Rail, Terminal	12	332-0942	10	Tie, Cable
5	332-2836-02	2	Block, Terminal – Sectional	13	098-5710	1	Label, Block – Terminal
6	332-2839	2	Bracket, End – Terminal	14	332-2842-13	2	Tag, Terminal (21-30) (Not Shown)

Exerciser Clock

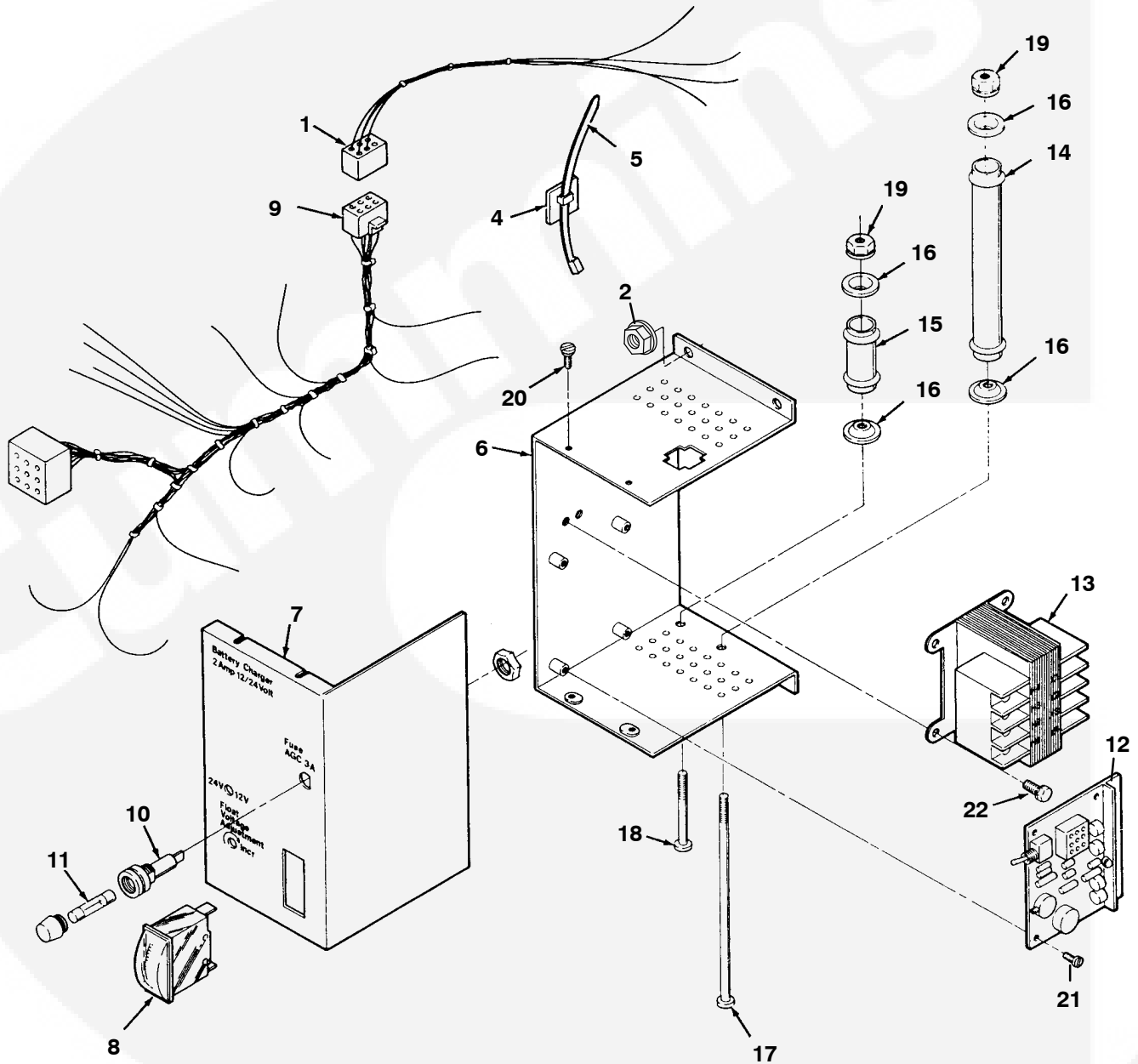


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9768	1	Plate, Clock - Exerciser	4	815-0550	2	Screw, Machine - Round Head - Cross Recessed W/ET (#6-32 x 3/8)
2	307-2577	1	Clock, Exerciser				
3	332-0942	10	Tie, Cable	5	870-0131	2	Nut, Lock W/ET (#10-32)

“Intentionally Left Blank”



Battery Charger (2 Amp)

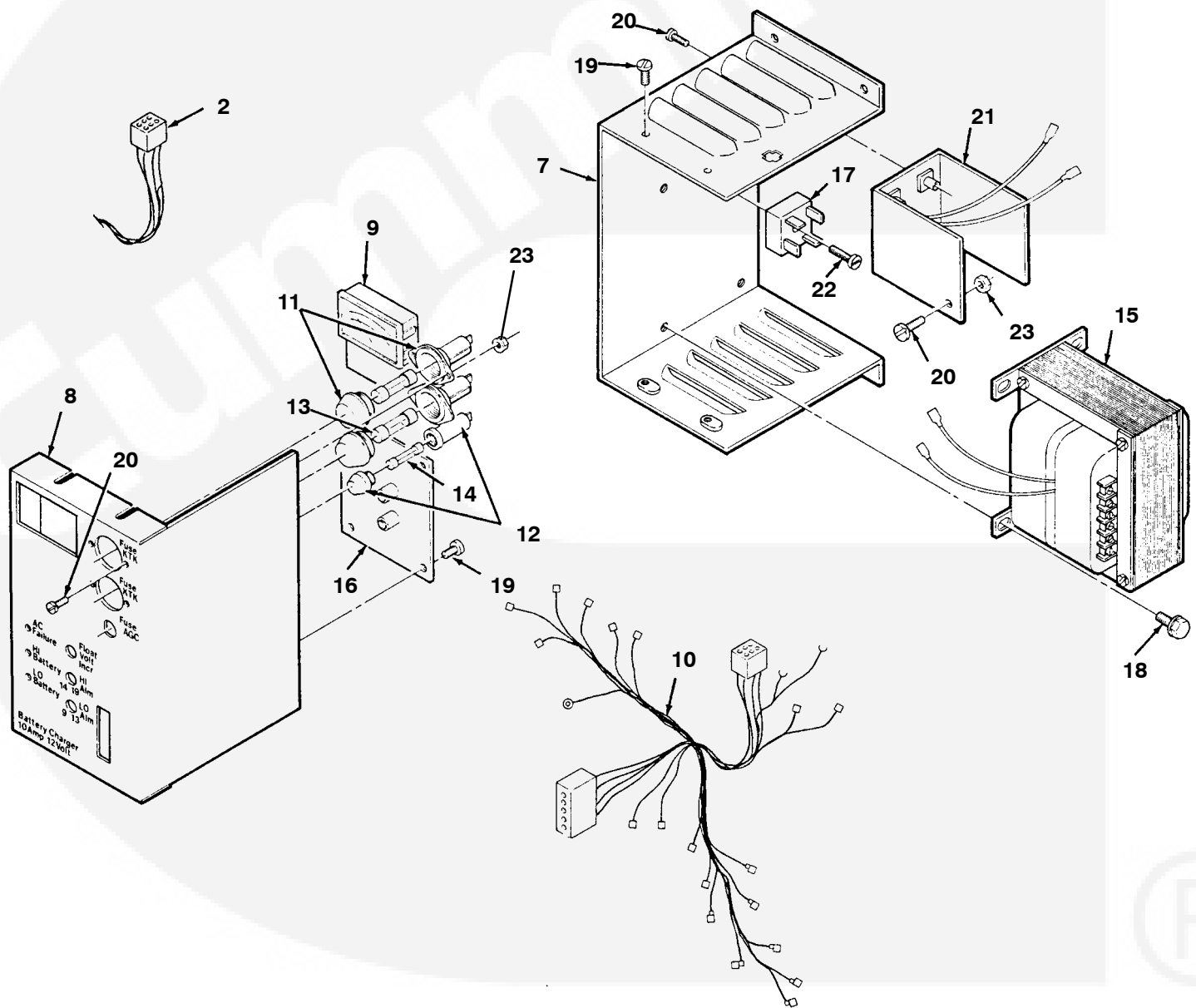


Battery Charger (2 Amp)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Battery Charger	14	304–0037	1	Resistor, Fixed
	338–2161	1	Units with Cabinet Open Construction	15	304–0139	1	Resistor, Fixed
	338–2949	1	Genset to Genset	16	304–0015	4	Washer, Centering
	338–2161	1	Utility to Genset	17	813–0116	1	Screw, Round Head (#10–32 x 6–1/2)
	338–2983	1	3 Wire Start	18	813–0112	1	Screw, Round Head (#10–32 x 2–1/2)
2	870–0131	4	Nut, Lock W/ET (#10–32)	19	870–0131	2	Nut, Lock W/ET (#10–32)
3	332–2777	2	Terminal, Spade	20	815–0550	4	Screw, Pan Head W/ET (#6–32 x 3/8)
4	332–2420	8	Mount, Tie – Cable	21	815–0549	4	Screw, Pan Head W/ET (#6–32 x 1/4)
5	332–0942	20	Tie, Cable	22	821–0040	4	Screw, Lock (#10–32 x 5/16)
6	301–9990	1	Wrapper, Charger – Battery				
7	301–9992	1	Cover, Charger – Battery (Includes Label)				
	098–5708	1	Label				
8	302–0807	1	Meter, Ampere – DC				
9	338–2149	1	Harness, Wiring – Battery Charger				
10	321–0175	1	Holder, Fuse				
11	321–0153	1	Fuse, 3 Amp				
12	300–2946	1	Board, Printed Circuit – Battery Charger				
13			Transformer (Primary Voltage)				
			60 Hertz				
	315–0621–01	1	120 Volt				
	315–0621–02	1	208 Volt				
	315–0621–02	1	240 Volt				
	315–0621–03	1	380 Volt				
	315–0621–02	1	480 Volt				
	315–0621–04	1	600 Volt				
			50 Hertz				
	315–0621–02	1	200 Volt				
	315–0621–02	1	208 Volt				
	315–0621–02	1	220 Volt				
	315–0621–03	1	380 Volt				
	315–0621–03	1	416 Volt				



Battery Charger (10 Amp 12 Volt)

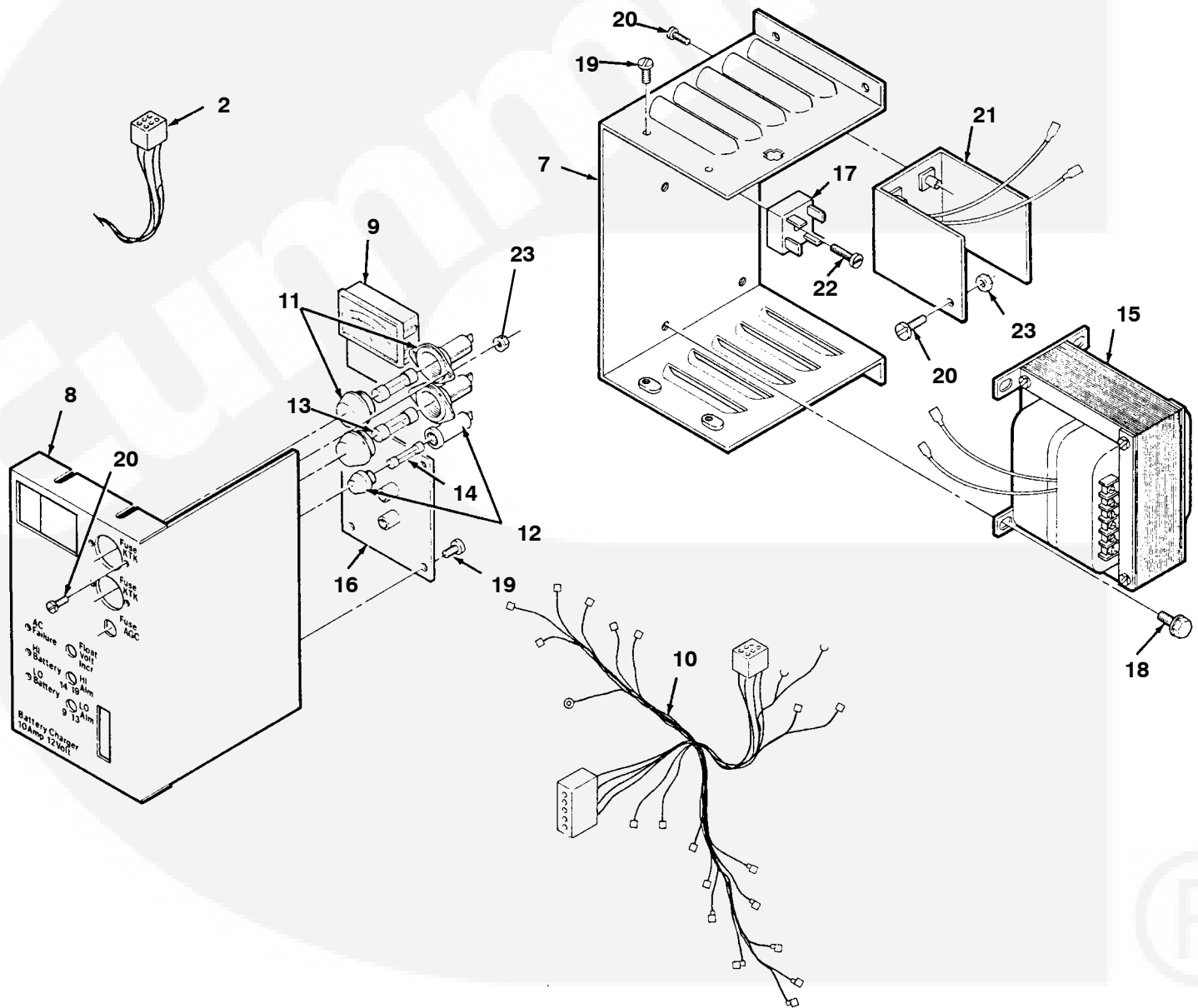


Battery Charger (10 Amp 12 Volt)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4339	1	Label, Option	14	321-0127	1	Fuse, 15 Amp
2			Harness, Wiring – Battery Charger	15			Transformer (Primary Voltage)
	338-2161	1	Units with Cabinet		315-0665	1	60 Hertz
			Open Construction		315-0665	1	120 Volt
	338-2949	1	Genset to Genset		315-0665	1	208 Volt
	338-2161	1	Utility to Genset		315-0671	1	240 Volt
	338-2983	1	3 Wire Start		315-0673	1	380 Volt
3	870-0131	4	Nut, Lock W/ET (#10-32)		315-0675	1	480 Volt
4	332-2777	2	Terminal, Spade				600 Volt
5	332-2420	8	Mount, Tie – Cable		315-0667	1	50 Hertz
6	332-0942	20	Tie, Cable		315-0669	1	200 Volt
7	319-0072	1	Wrapper, Charger – Battery		315-0677	1	220 Volt
8	319-0073	1	Cover, Charger – Battery		315-0679	1	240 Volt
			Label		315-0667	1	347 Volt
			500 Volt		315-0667	1	380 Volt
	098-5807	1	4.5 Amp		315-0667	1	400 Volt
	098-5808	1	2.5 Amp		315-0669	1	416 Volt
	098-5809	1	2.0 Amp	16	300-3160	1	440 Volt
	098-5995	1	1.5 Amp				Board, Printed Circuit – Battery Charger
	098-5996	1	1.0 Amp	17	305-0653	1	Rectifier, Bridge
			600 Volt	18	821-0040	4	Screw, Lock (#10-32 x 5/16)
	098-6039	1	1.0 Amp	19	815-0550	8	Screw, Pan Head W/ET (#6-32 x 3/8)
9	302-1844	1	Meter, Ampere – DC	20	822-2048	5	Screw, Pan Head (#8-32 x 1/2)
10	338-2223	1	Harness, Wiring – Battery Charger	21	305-0781	1	Rectifier, SCR
11	321-0237	2	Holder, Fuse (AC Input)	22	822-2049	1	Screw, Pan Head W/ET (#8-32 x 5/8)
12	321-0104	1	Holder, Fuse (DC Output)	23	870-0221	5	Nut, Lock W/ET (#8-32)
13			Fuse	24	C-0308	1	Instruction Sheet
			500 Volt				
	321-0304-01	2	1.0 Amp				
	321-0304-02	2	1.5 Amp				
	321-0304-03	2	2.0 Amp				
	321-0304-04	2	2.5 Amp				
	321-0304-05	2	4.5 Amp				
			600 Volt				
	321-0236	2	1.0 Amp				



Battery Charger (10 Amp 24 Volt)

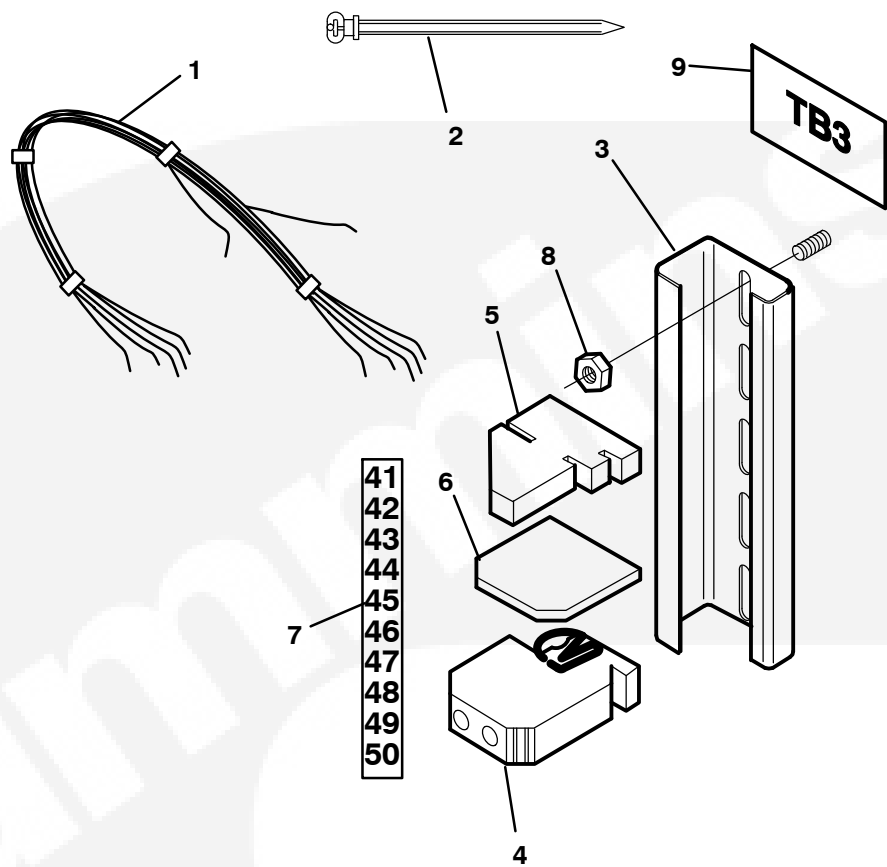


Battery Charger (10 Amp 24 Volt)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-4339	1	Label, Option	14	321-0127	1	Fuse, 15 Amp
2			Harness, Wiring – Battery Charger	15			Transformer (Primary Voltage)
	338-2161	1	Units with Cabinet		315-0701	1	60 Hertz 120 Volt
			Open Construction		315-0701	1	208 Volt
	338-2949	1	Genset to Genset		315-0701	1	240 Volt
	338-2161	1	Utility to Genset		315-0707	1	380 Volt
	338-2983	1	3 Wire Start		315-0709	1	480 Volt
3	870-0131	4	Nut, Lock W/ET (#10-32)		315-0711	1	600 Volt
4	332-2777	2	Terminal, Spade				50 Hertz
5	332-2420	8	Mount, Tie – Cable		315-0703	1	200 Volt
6	332-0942	20	Tie, Cable		315-0705	1	220 Volt
7	319-0072	1	Wrapper, Charger – Battery		315-0713	1	240 Volt
8	319-0073	1	Cover, Charger – Battery		315-0715	1	347 Volt
			Label		315-0703	1	380 Volt
	098-5914	1	5.0 Amp		315-0703	1	400 Volt
	098-5915	1	4.5 Amp		315-0705	1	416 Volt
	098-5916	1	2.5 Amp		315-0705	1	440 Volt
	098-5997	1	2.0 Amp	16	300-3244	1	Board, Printed Circuit – Battery
	098-5998	1	1.5 Amp				Charger
9	302-1844	1	Meter, Ampere – DC	17	305-0653	1	Rectifier, Bridge
10	338-2223	1	Harness, Wiring – Battery	18	821-0040	4	Screw, Lock (#10-32 x 5/16)
			Charger	19	815-0550	8	Screw, Pan Head W/ET (#6-32 x 3/8)
11	321-0237	2	Holder, Fuse (AC Input)				Screw, Pan Head (#8-32 x 1/2)
12	321-0104	1	Holder, Fuse (DC Output)	20	822-2048	5	Rectifier, SCR
13			Fuse	21	305-0781	1	Screw, Pan Head W/ET (#8-32 x 5/8)
	321-0304-02	2	1.5 Amp	22	822-2049	1	Nut, Lock W/ET (#8-32)
	321-0304-03	2	2.0 Amp				Instruction Sheet
	321-0304-04	2	2.5 Amp	23	870-0221	5	
	321-0304-05	2	4.5 Amp	24	C-0308	1	
	321-0304-06	2	5.0 Amp				

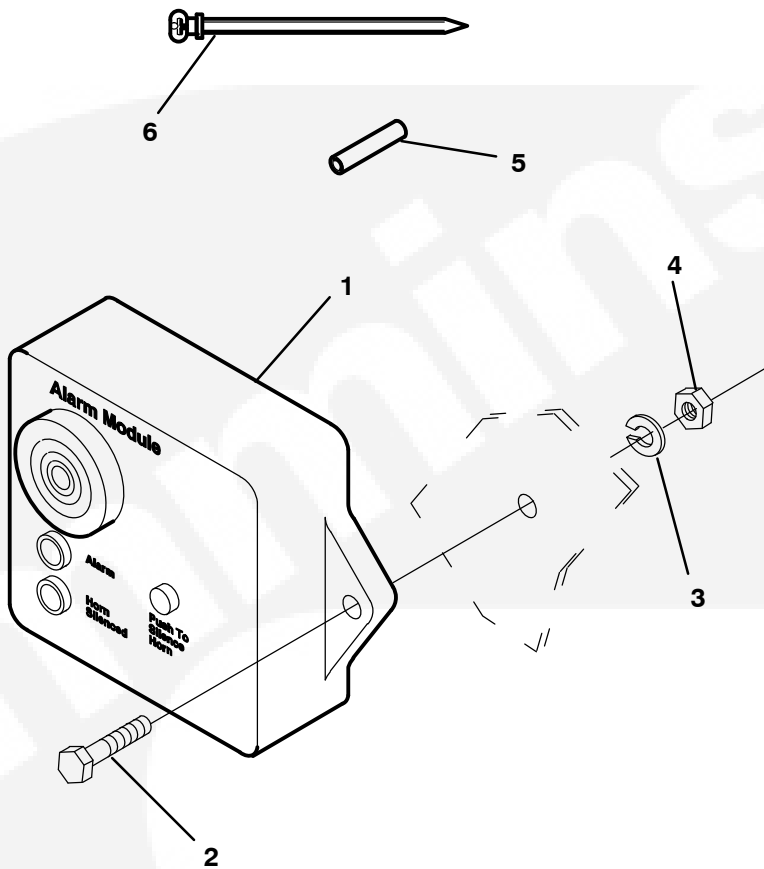


Battery Charger Alarm



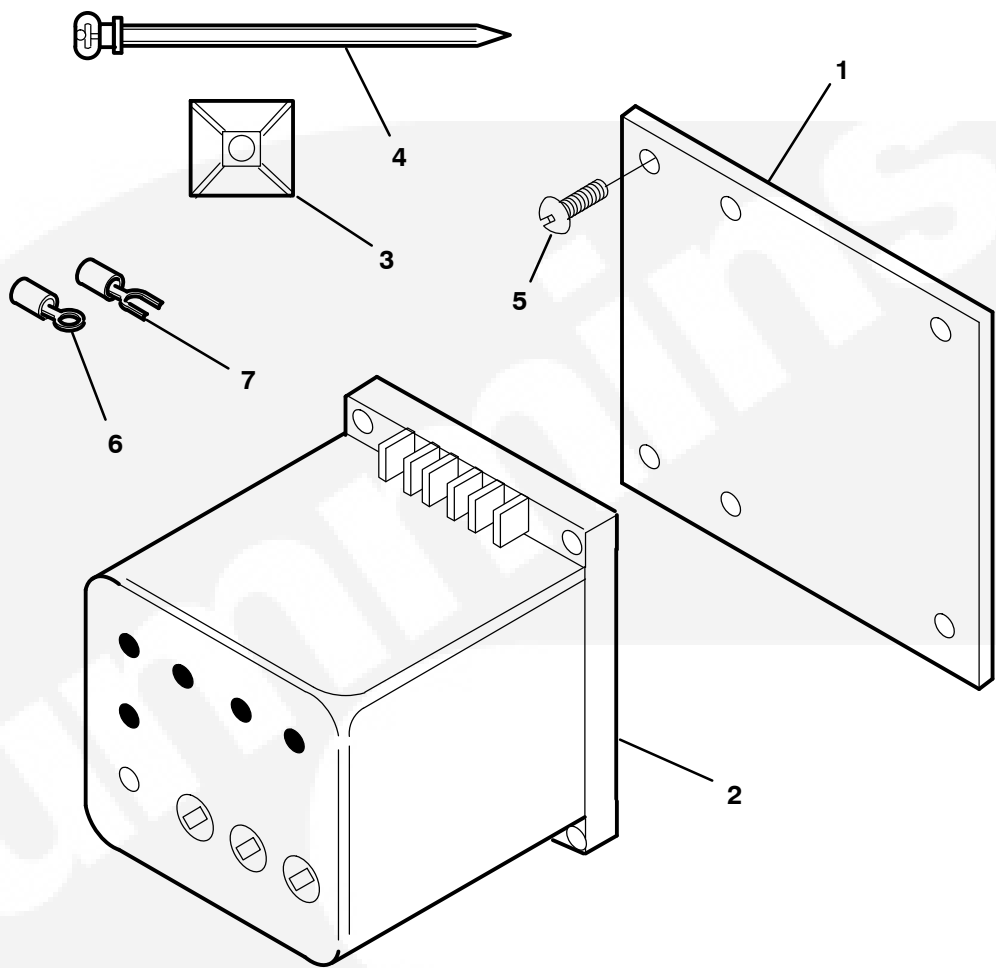
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2349	1	Harness, Wiring – Battery Charger Alarm	5	332-2839	2	Bracket, End – Terminal
2	332-0942	20	Tie, Cable Units with Cabinets	6	332-2841	1	Plate, End – Terminal
	332-0941	5	Open Construction	7	332-2842-15	2	Tag, Terminal (41-50)
3	332-2837-09	1	Rail, Block – Terminal (Units with Cabinets Only)	8	870-0221	2	Nut, Hex w/ET (#8-32) (Units with Cabinets Only)
4	332-2836-02	1	Block, Terminal – Sectional	9	098-5710	1	Label, Block – Terminal (TB3) (Units with Cabinets Only)

Alarm Module



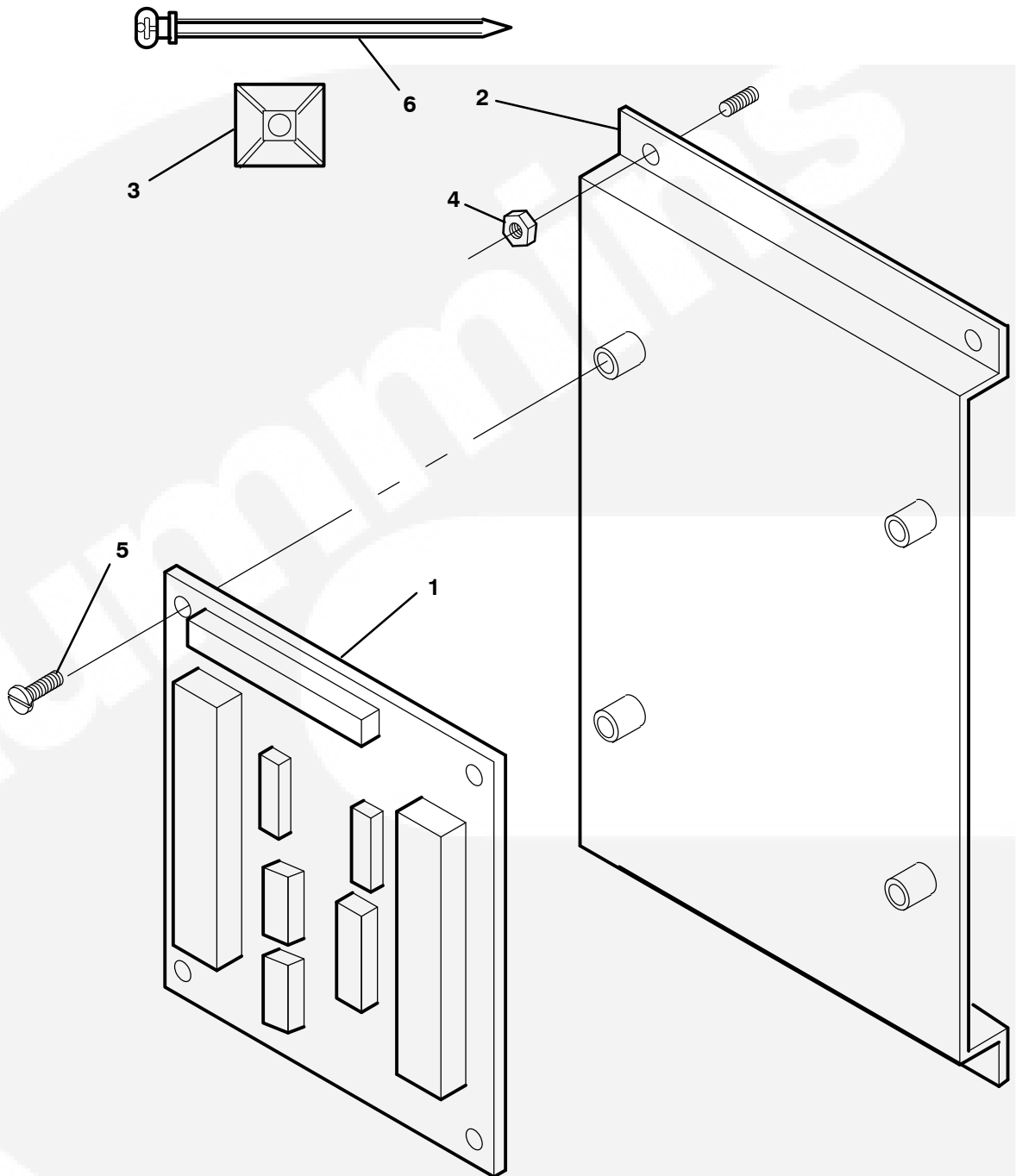
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Module, Alarm	4	862-0001	2	Nut, Hex (1/4-20)
	300-3998-01	1	24 Volt AC or DC	5	332-2230	2	Splice, Inline (22-18 Wire)
	300-3998-02	1	12 VDC	6	332-0942	3	Tie, Cable
2	800-0006	2	Screw, Cap - Hex Head (1/4-20 x 7/8)	7	539-1344	1	Template, Module - Alarm (Not Illustrated)
3	850-0040	2	Washer, Lock (1/4)				

Monitor



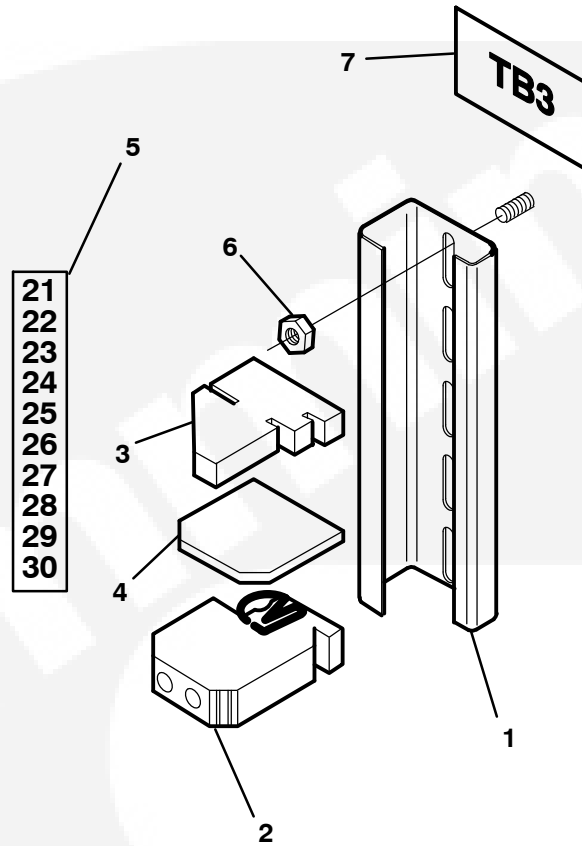
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-0976-00	1	Plate, Relay	4	332-0941	15	Tie, Cable
2			Relay, Monitor	5	815-0544	6	Screw, Round Head w/IT (#6-32 x 1/2)
	307-2840-02	1	240 VAC	6	332-0801	3	Terminal, Ring (#6)
	307-2840-03	1	380 VAC	7	332-2630	7	Terminal, Spade (#6)
	307-2840-04	1	480 VAC				
3	332-2420	5	Mount, Tie - Cable				

Sequencer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-3893-01	1	Board, PC – Sequencer	4	870-0131	4	Nut, Hex w/ET (#10-32)
	300-3893-02	1	12 Volt	5	815-0550	4	Screw, Pan Head – Cross
2	319-1208	1	24 Volt				Recessed w/ET (#6-32 x 3/8)
3	332-2420	10	Plate, Mounting – Sequencer	6	332-0942	20	Tie, Cable
			Mount, Tie – Cable				

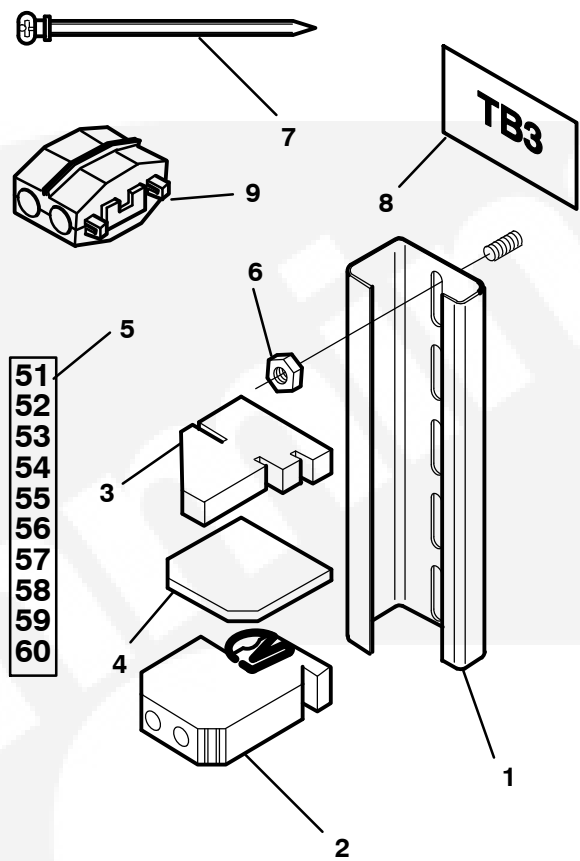
Load Shed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	*Rail, Terminal	6	870-0221	2	*Nut, Hex w/ET (#8-32)
2	332-2836-01	2	Block, Terminal – Sectional	7	098-5710	1	*Label, Block – Terminal
3	332-2839	2	Bracket, End – Terminal				
4	332-2841	1	Plate, End – Terminal				
5	332-2842-13	2	Tag, Terminal (21-30)				

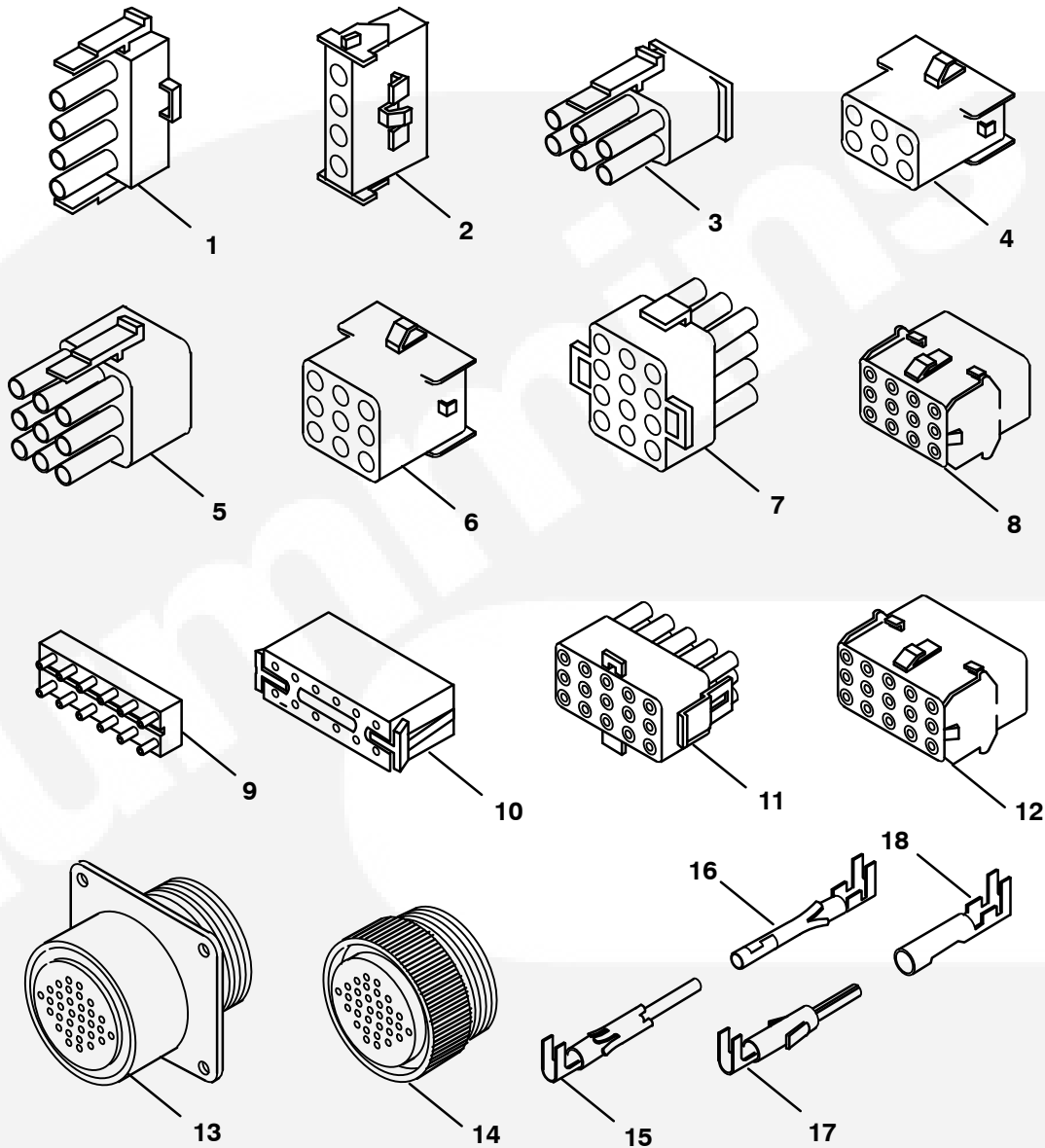
* Not used with Open Construction

Remote Connection Signal



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2837-09	1	Rail, Terminal	6	870-0221	2	Nut, Hex w/ET (#8-32)
2	332-2836-01	2	Block, Terminal - Sectional	7	332-0942	10	Tie, Cable
3	332-2839	2	Bracket, End - Terminal	8	098-5710	1	Label, Block - Terminal
4	332-2841	1	Plate, End - Terminal	9	332-2230	2	Terminal, Tap - Plier
5	332-2842-16	2	Tag, Terminal (51-60)				

Pins and Sockets



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	323-1292	1	Housing, Pin - 4	16	323-1195	1	Socket, Contact (Used with Circular Housings) (18-14 AWG)
2	323-1333	1	Housing, Socket - 4	17	323-1199	1	Pin, Contact (Used with Rectangular Housings) (20-14 AWG)
3	323-1317	1	Housing, Pin - 6	18	323-1200	1	Socket, Contact (Used with Rectangular Housings) (20-14 AWG)
4	323-1318	1	Housing, Socket - 6				Strain Relief (Not Shown)
5	323-1291	1	Housing, Pin - 9		323-1158	1	15 Pin
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