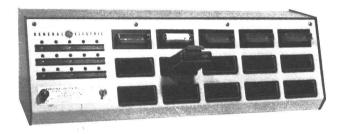


MAINTENANCE MANUAL

Personal Pager DESK CHARGER COMBINATIONS 391L1B2X AND 391M1B2X MULTI-CHARGER COMBINATIONS 392L1B1X AND 392M1B1X





DESK CHARGER

MULTI-CHARGER

SPECIFICATIONS *

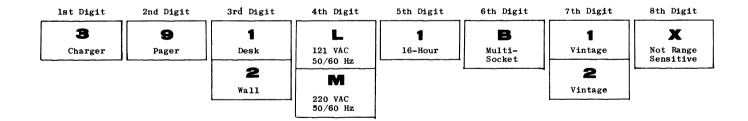
	391L1B2X	391M1B2X	392L1B1X	392M1B1X
Input Voltage (50/60 Hz)	121	220	121	220
AC Power (Watts)	3	3	4	4
Charge Time (hrs)	16	16	16	16
Charge Currents	15 mA	15 mA	15 mA	15 mA
Size Inches Width Depth Height	4 1/16" 5 1/2" 2 1/2"	4 1/16" 5 1/2" 2 1/2"	24 1/8" 7 3/16" 7 5/8"	24 1/8" 7 3/16" 7 5/8"
Weight	1 1/2 lb.	$1 \ 1/2 \ 1b.$	18 7/8 lb.	18 7/8 lb.

^{*}These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

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Figure 1 - Desk Charger	1 1

COMBINATION NOMENCLATURE



- WARNING -

No one should be permitted to handle any portion of the equipment that is supplied with high voltage; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS!

DESCRIPTION

General Electric Desk Charger and Multi-Charger Combinations for nickel-cadmium batteries used with Personal or Executive Pager radios, will provide a continuous C/10 charge rate and will recharge a fully discharged battery 100% in 16 hours. Both the Desk Charger and the Multi-Charger are available for 121 and 220 VAC, 50/60 Hz operation.

The Desk Charger is capable of recharging, simultaneously, a Pager with battery and a spare battery (See Figure 1). Two RED LED indicators, one labeled UNIT for the Pager with battery and one labeled BATTERY indicate when the Pager or battery is in the Pager or battery charging insert, proper contact has been made and the battery is charging.

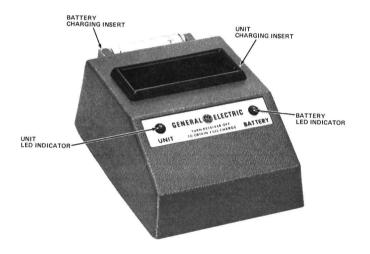


Figure 1 - Desk Charger

The Multi-Charger has 15 charging inserts and is capable of simultaneously recharging 15 Pager Units. The inserts are arranged in three rows of five and each insert has a RED LED indicator and identification strip (See Figure 2). The LED indicators indicate when a unit is in a charging insert, proper contact has been made and the battery is being charged.

Spare battery charging inserts may be added to the Multi-Charger as options.

OPERATION

Temperature characteristics of nickel-cadmium batteries, prevent a full charge at temperature extremes. For a maximum charge, recharge the battery at room temperatures of between 65° to 85° Fahrenheit whenever possible.

To use the desk charger, connect the power cable to a 121 or 220-Volt AC 50/60 Hz source depending upon the charger combination (See Figure 1). Place the Pager into the charging insert with the speaker facing the front of the charger, or place the battery into the battery insert. The RED LED indicator labeled UNIT or BATTERY will light, indicating the battery is being charged. To charge the battery to 100% capacity, let it stay in the charging insert for at least 16 hours.

To use the Multi-Charger, connect the power cable to a 121 or 220 VAC, 50/60 Hz source depending upon the charger combination (See Figure 2). Place the OFF-ON switch in the ON position. Place a pager into a charging insert. A RED LED indicator will light, indicating the battery is being charged. To charge a battery to 100% capacity, let it stay in the charging insert at least 16 hours.

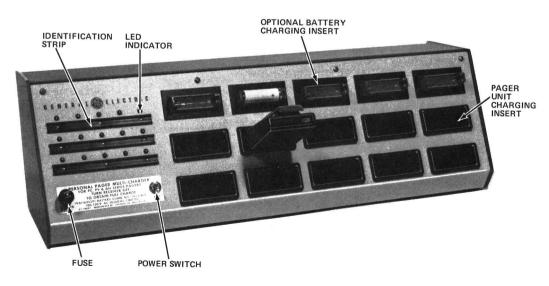


Figure 2 - Multi-Charger

CIRCUIT ANALYSIS

Desk Charger

The 16-hour desk charger contains a power supply and two charging circuits. References to symbol numbers mentioned in the following text can be found on the applicable schematic and outline diagram or parts list (See Table of Contents).

AC voltage developed across the secondary of transformer T501 or T502 is rectified by rectifiers CR1 and CR2. The rectified outputs are applied to the charging circuits.

The charging circuits are series resistances consisting of CR3 and R1, and CR4 and R2 which determines the C/10 constant current charge rate (15 milliamps). The charging current is applied to the battery when the battery is in the UNIT charging insert or the spare battery charging insert. The RED LED indicator will light when positive contact has been made with the battery contacts. Charging current for the UNIT charging insert is applied to the battery through charging contacts E1, E2 and E3. Charging current for the spare battery charging insert is applied to the battery through charging contacts E4 and E5.

Multi-Charger

The 16-hour multi-charger charger contains a power supply and 15 charging circuits. References to symbol numbers mentioned in the following text can be found on the applicable schematic and outline diagram or parts list (see Table of Contents).

AC Voltage developed across the secondary of transformer T801 or T802 is rectified through full-wave rectifiers CR16 and CR17. The rectified output is applied to the charging circuits.

The charging circuits are series resistances Rl through Rl5 and CRl through CRl5. Each charging circuit determines a C/10 constant current charging rate (15 milliamps). The charging current is applied to a battery when a pager is in a charging insert.

MAINTENANCE

Disassembly

To gain access to the desk charger circuitry for servicing, remove the four Phillips-head screws in the bottom of the charger. Carefully lift off the housing.

To gain access to the multi-charger circuitry, remove the four Phillips-head screws along the top of the front panel, and swing open the panel.

Troubleshooting

Should a difficult service problem arise, the following checks should aid the service technician in locating the difficulty.

Desk Charger

Symptom	Procedure
Battery will not charge	1. Check to see if LED indicator is on (UNIT or BATTERY).
	2. If an LED indicator is on, try a known good battery.
	3. If both LED indicators are off, check fuse F501 or F502.
	4. If only one LED indicator is on, insure proper contact between the charging contacts of the defective charging circuit and the battery terminals.
	5. Check CR1 or CR2 and T501 or T502.

Multi-Charger

Symptom	Procedure
Battery will not charge	1. Check to see if LED indicator for the charging insert is on.
	2. If the LED indicator is on try a known good battery.
	3. If none of the LED indicators will come on, inserting a battery, check fuse F801 or F802, switch S801, diodes CR16 and CR17, and T801 or T802.
	4. Insure proper contact between charging contacts and battery terminals.

INSTALLATION

Desk Charger

The desk charger can be located on a desk or table top, or other flat surface. The location should be close to a 121 or 220-Volts AC, 50/60 Hz source. If the radio is to be used while charging, the charger should be located so that it is convenient to the operator.

The multi-charger may be located on a table top or shelf, or may be mounted on a wall or other vertical surface. Two mounting holes approximately 16 inches apart are provided in the back of the charger for wall mounting. The mounting location should be close to a 121 or 220-Volt AC, 50/60 Hz source. To mount the multi-charger on a wall:

- 1. Make sure that the power cable is disconnected. Then remove the four Phillips-head screws along the top of the front panel and swing down the panel.
- Use the charger as a template and mark the mounting holes.

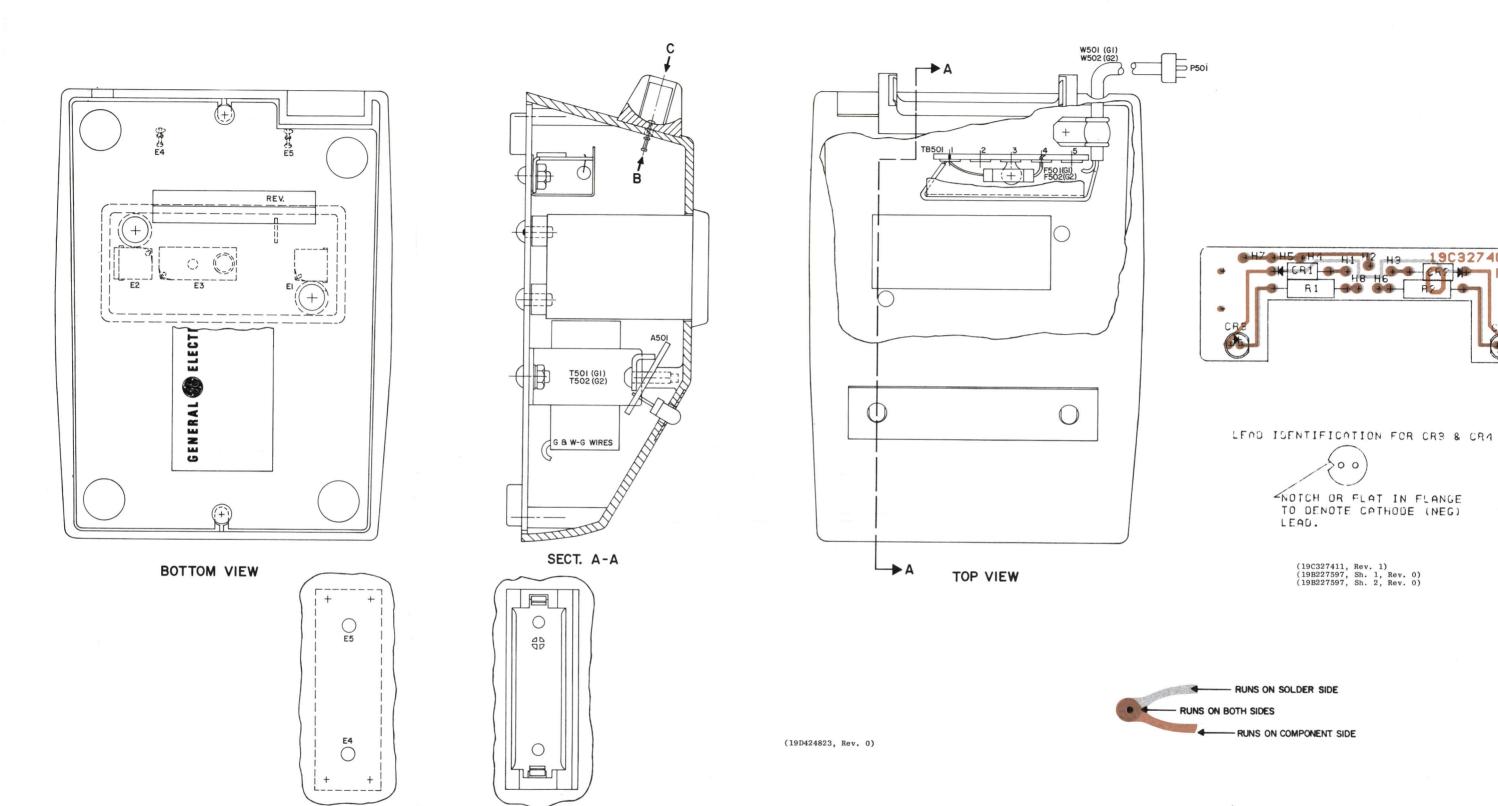
- Mount the charger using two 1/4-inch lag screws or #14 wood screws as required.
- 4. Replace the front cover and plug in the power cable.

240 VAC OPERATION

Desk Charger Combination 391M1B2X is normally connected for 220 VAC operation. To change to 240 VAC operation, remove fuse F502 from TB501-4 and connect F502 to TB501-2. Refer to note 1 on the schematic diagram.

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VIEW-C

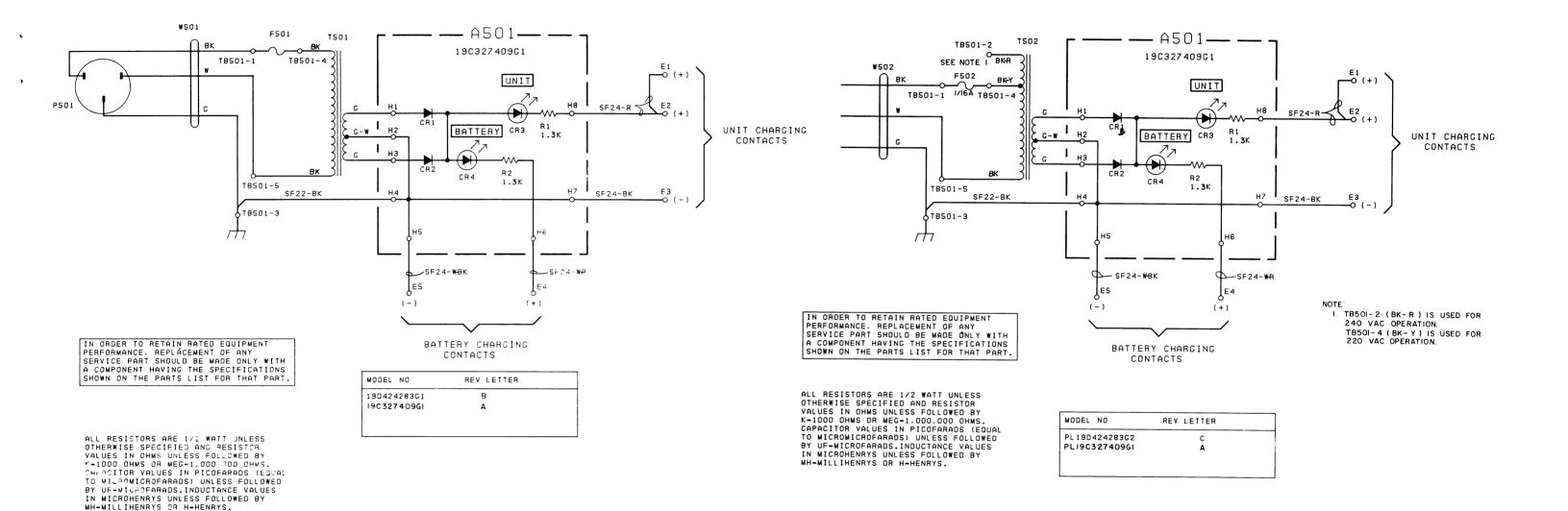
OUTLINE DIAGRAM

DESK CHARGER COMBINATIONS 391L1B2X AND 391M1B2X

4

Issue 1

VIEW-B



(19C327407, Rev. 3)

(19C327408, Rev. 5)

SCHEMATIC DIAGRAM

DESK CHARGER COMBINATIONS 391L1B2X AND 391M1B2X

PARTS LIST

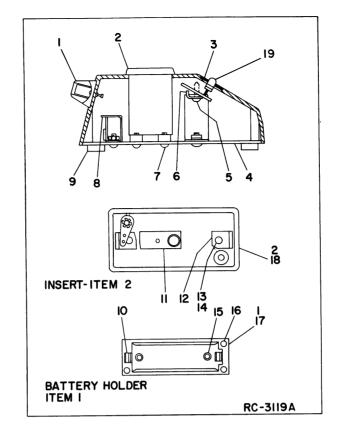
LB130402C

DESK CHARGER

19D424283G1 121 VAC COMBINATION 391L1B2X
19D424283G2 230 VAC COMBINATION 391M1B2X

SYMBOL	GE PART NO.	DESCRIPTION
A501		CHARGER BOARD 19C327409G1
CR1 and CR2	4037822P1	DIODES AND RECTIFIERS Silicon, 1000 mA, 400 PIV.
CR3 and CR4	19A134354P6	Diode, optoelectronic: red; sim to Hew. Packard 4650.
R1* and R2*	3R77P132J	Composition: 1.3K ohms ±5%, 1/2 w. Earlier than REV A:
R	3R77P152J	Composition: 1.5K ohms ±5%, 1/2 w.
F501	19A116658P2	Fuse, enclosed link: 1/8 amp at 250 v; sim to
F502*	19A134948P3	Bussman GJV 1/8. Fuse, enclosed link: 1/16 amp at 250 v; sim to Bussman MDV 1/16.
	19A116658Pl	In REV B & earlier: Puse, enclosed link: 1/16 amp at 250 v; sim to Bussman GJV 1/16.
P 501		
T501*	19A134695P1	Power, step-down: rectifier, single phase, Pri: 117 v, 50/60 Hz, Sec 1: 25/25 ±2 VRMS.
	19B209017P1	In REV A & earlier: Power: rectifier, single phase, Pri: 117 v, 50/60 Hz, Sec 1: 25/25 ±2 VRMS.
T502*	19A134695P2	Power, step-down: rectifier, single phase, Pri: 220/240 v, 50/60 Hz, Sec 1: 25/25 ±2 VRMS.
	19B20 9 017P2	In REV A & earlier: Power: rectifier, single phase, pri: 220/240 v, 50/60 Hz, Sec 1: 25/25 ±2 VRMS.
тв501	7775500Pl1	Phen: 5 terminals.
W501	19A136912G1	Power: approx 8 feet long. (Includes P501).
W502	19A136912G2	Power: approx 8 feet long. BATTERY HOLDER
E4 and E5	19A115296P1	19B216914G2

	SYMBOL	GE PART NO.	DESCRIPTION
ł			
			MECHANICAL PARTS (SEE RC3119)
	1	19B216914G2	Battery holder assembly. (Includes items 10, 15-17).
١	2	19C317366G4	Insert assembly. (Includes items 11-14, 18).
١	3	NP280286	Nameplate, faceplate.
1	4	19B233369G1	Base.
	5	19A116773P108	Tap screw, Phillips POZIDRIV®: No. 7-19 x 1/2.
١	6	19A136832P1	Angle.
١	7	N136P1305C6	Tap screw, phillips head: No. 6-32 x 5/16.
١	8	19B219105P2 19A116417P1	Fuse cover. Bumper, plastic.
	9 10	198116417P1 198216876P1	Contact.
	11	19A127739G1	Contact.
	12	19B216851P1	Contact.
	13	N136AP503C	Tap screw, Phillips POZIDRIV: No. 2-32 x 3/16.
	14	N404P8C13	Lockwasher, internal tooth: No. 2. (Not Used).
	15	19A115296P1	Terminal, standoff: sim to Cambridge Thermionic Corp X1558-BB. (E4, E5).
	16	N136P504C	Tap screw, phillips head: No. 2-32 x 1/4.
	17	19C317408P2	Holder.
	18	19E500908P1	Insert.
	19	19A134521P1	Lens, panel light.
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PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

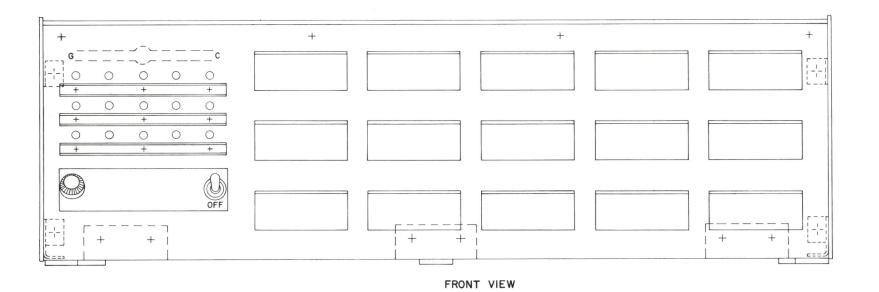
REV. A - Charger 19D422283G1&G2
REV. A - Charger Board 19C327409G1
To increase charging current.
Changed R1 and R2.

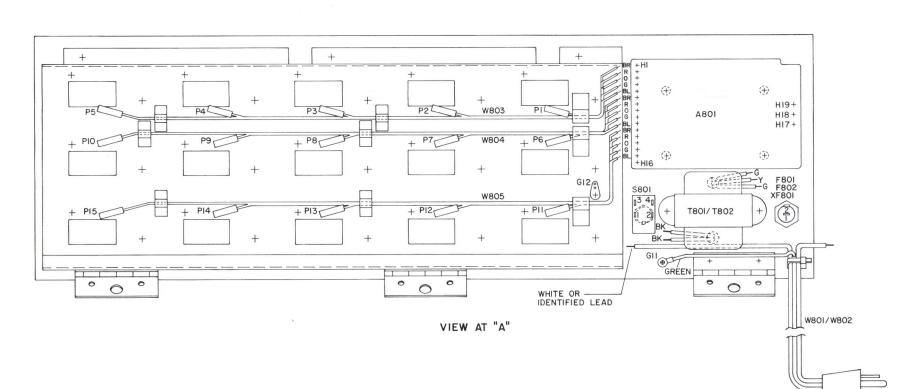
TO Increase charging currents
Changed R1 and R2.

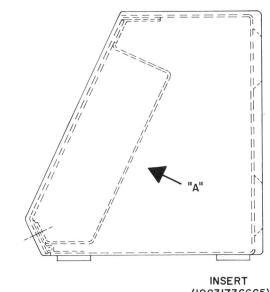
REV..A - Charger 19D424283Gl&G2
To improve tranformer regulation.
Changed T501 and T502.

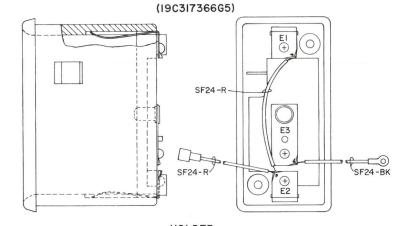
REV. B - To improve transformer regulation. Changed T501 and T502.

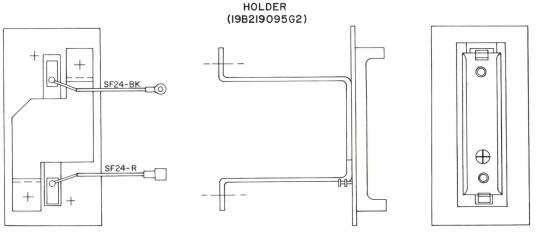
REV. C - Charger 19D424283G2
To prevent fuse from blowing when power is initially applied.
Changed F502.

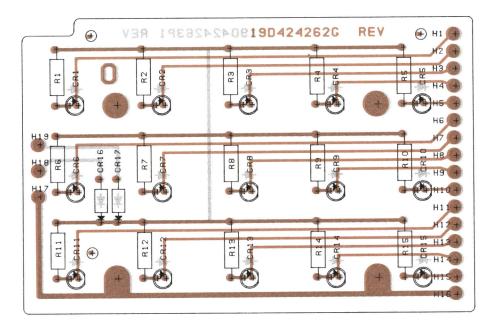












NOTCH OR FLAT IN FLANGE
TO DENOTE CATHODE (NEG)
LEAD.

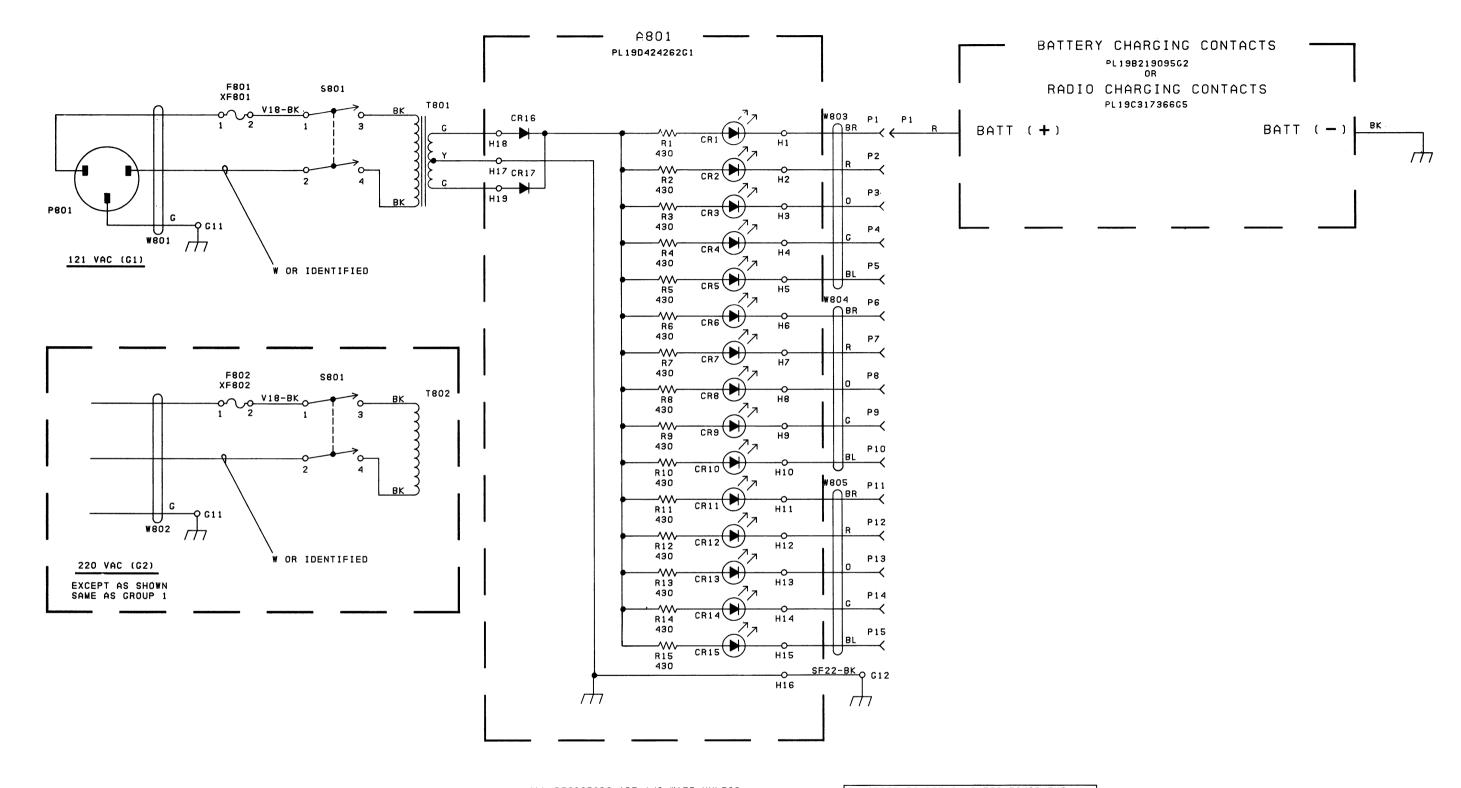
(19C327427, Rev. 1) (19B227609, Sh. 1, Rev. 0) (19B227609, Sh. 2, Rev. 0)

OUTLINE DIAGRAM

MULTI-CHARGER COMBINATIONS 392L1B1X AND 392M1B1X (19D424836, Rev. 0)

RUNS ON BOTH SIDES

RUNS ON COMPONENT SIDE



MODEL NO	REV LETTER	İ
19D424289G1 19D424289G2 19D424262G1	A	

ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K-1000 OHMS OR MEG-1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF-MICROFARADS.INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH-MILLIHENRYS OR H-HENRYS.

IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

SCHEMATIC DIAGRAM

MULTI-CHARGER COMBINATIONS 392L1B1X AND 392M1B1X

PARTS LIST

LB130403A

MULTICHARGER COMBINATION 392L1B1X 19D424289G1 121 VAC COMBINATION 392M1B1X 19D424289G2 220 VAC

SYMBOL	GE PART NO.	DESCRIPTION
A801		MULTICHARGER 19D424262G1
		DIODES AND RECTIFIERS
CR1 thru CR15	19A134354P6	Diode, optoelectronic: red; sim to Hew. Packard 5082-4650.
CR16 and CR17	4037822P1	Silicon, 1000 mA, 400 PIV.
Rl thru Rl5	3R77P431J	
	Ì	
F801	1R16P1	Quick blowing: 1/2 amp at 250 v; sim to Littelfuse 312.500 or Bussmann AGC-1/2.
F802*	7487942P1	Slow blowing: 1/4 amp at 250 v; sim to Bussmann MDL-1/4. Earlier than REV A:
	1R16P13	Quick blowing: 1/4 amp at 250 v; sim to Littelfuse 312.250 or Bussmann AGC-1/4.
P801		(Part of W801).
S801	5491899P2	
T801	19A134178P1	Power, step-down: Pri: 121 VRMS, 50/60 Hz., Sec: 1500 VRMS, 60 Hz.
T802	19A134178P2	Power, step-down: Pri: 220 VRMS, 50/60 Hz., Sec: 1500 VRMS, 60 Hz.
W801	19B227086G3	Power: approx 6 feet long. Includes (P801) and 19B209260P2 terminal.
W802	19B227086G4	Power: 3 conductor; approx 6 feet long. Includes
	19B209260P2	Terminal, solderless: wire range No. 20-16; sim to AMP 41733.
₩8 03		CABLE ASSEMBLY 19B227729G1
Pl thru		Connector. Includes:
P5	19B209505P21	Contact, female: wire size No. 18-24.
	19B209505P201	Shell.
W804		CABLE ASSEMBLY 19B227729G1
		PLUGS
P6 thru		Connector. Includes:
P10	19B209505P21	Contact, female: wire size No. 18-24.
	19B209505P201	Shell.

11	SYMBOL	GE PART NO.	DESCRIPTION
Pil	W805		
198209005P201 Shell.	thru		Connector. Includes:
Second 198208005P1 Fuseholder: 15 amps at 250 v; sim to Littelfuse 342012. INSERT ASSEMBLY 198216851P1 Contact.			
198216851P1 Contact.	XF801	19B209005P1	Fuseholder: 15 amps at 250 v; sim to Littelfuse
E1 and 82			
### 19A127739G1 Contact. ### MECHANICAL PARTS (SEE RC3125) 1 NP280291PA Nameplate. 2 198219023G3 Plate. 3 N80P13004C6 Machine screw: No. 6-32 x 1/4. 4 19C317192G4 Side plate. 5 19A134365P1 Rubber bumper. 6 19A134366P1 Rivet, tubular. 7 198216914G2 Holder. (Includes items 8-10). 8 19C317408P2 Holder. 9 19B206876P1 Contact. 10 19B2069505P20 Contact, electrical: male, wire size 18-24. 12 19B209505P101 Connector shell. 13 7491823P1 Terminal, solderless: wire size 26-22 AWG. 14 198201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 19B219080G1 Plate. 17 19A127739G1 Contact. (E3). 18 19C31736G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B216851P1 Contact. (E1, E2). 21 19B216851P1 Spacer, sleeve. 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P3C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 6. 27 19A115185P2 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 20 7115130P11 Lockwasher: No. 15/32-32. 21 7115130P11 Lockwasher: No. 15/32-32.		19B216851P1	
NP280291PA Nameplate.	E2	19A127739G1	Contact.
198219023G3 Plate.			
N80P13004C6 Machine screw: No. 6-32 x 1/4.	1	NP280291PA	Nameplate.
19631719264 Side plate.	2	19 B2 19023G3	Plate.
19A134365P1	3	N80P13004C6	Machine screw: No. 6-32 x 1/4.
19A134366P1	4	19C317192G4	Side plate.
198216914G2	5	19A134365P1	Rubber bumper.
198216876P1 Contact.	6	19A134366P1	Rivet, tubular.
9 19B216876P1 Contact. 10 19A115296P1 Terminal, stud: sim to Cambridge Thermionic Cor X1538-BB. (E4, E5). 11 19B209505P20 Contact, electrical: male, wire size 18-24. 12 19B209505P101 Connector shell. 13 7491823P1 Terminal, solderless: wire size 26-22 AWG. 14 19B201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 19B219080G1 Plate. 17 19A127739G1 Contact. (E3). 18 19C317366G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136F503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A15185P2 Retainer strap: sim to Thomas and Betts TY-525M 190 1915195P2 Hex nut: No. 15/32-32. 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32.	7	19B216914G2	Holder. (Includes items 8-10).
10 19A115296P1 Terminal, stud: sim to Cambridge Thermionic Cor X1558-BB. (E4, E5). 11 19B209505P20 Contact, electrical: male, wire size 18-24. 12 19B209505P101 Connector shell. 13 7491823P1 Terminal, solderless: wire size 26-22 AWG. 14 19B201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 19B219080G1 Plate. 17 19A127739G1 Contact. (E3). 18 19C317366G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 6. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 19B216619G1 Hinge. 30 7115130P11 Lockwasher: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-132 4033394P1 Nut, knurled: No. 15/32-32.			
11	9	19B216876P1	
198209505P101 Connector shell. 7491823P1 Terminal, solderless: wire size 26-22 AWG. 14 198201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 198219080G1 Plate. 17 194127739G1 Contact. (E3). 18 19C317366G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 714125P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115130P11 Lockwasher: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.			
13 7491823P1 Terminal, solderless: wire size 26-22 AWG. 14 198201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 198219080G1 Plate. 17 19A127739G1 Contact. (E3). 18 19C317366G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-132 4033394P1 Nut, knurled: No. 15/32-32.			
14 198201074P206 Tap screw, Phillips POZIDRIV®: No. 4-40 x 3/8. 15 N136P504C Tap screw: No. 2-32 x 1/4. 16 198219080G1 Plate. 17 194127739G1 Contact. (E3). 18 19C31736665 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 198201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 20 198216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 194115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 198216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32-32.			
15 N136P504C Tap screw: No. 2-32 x 1/4. 16 19B219080G1 Plate. 17 19A127739G1 Contact. (E3). 18 19C317366G5 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-132 4033394P1 Nut, knurled: No. 15/32-32.			
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17			
18 19C31736665 Insert. (Includes items 11, 12, 13, 17-21, 25, 26). 19 19E500908P1 Insert. 20 19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 21 19B216851P1 Contact. (E1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.		_	1
19B201074P304 Tap screw, Phillips POZIDRIV®: No. 6-32 x 1/4. 19B216851P1 Contact. (£1, £2). 7150186P111 Spacer, sleeve. 7141225P3 Hex nut: No. 6-32. Lockwasher, internal tooth: No. 6. N136P503C Tap screw: No. 2-32 x 3/16. Lockwasher, internal tooth: No. 2. Retainer strap: sim to Panduit Corp. SST-1. 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 19B216619G1 Hinge. 19B216619G1 Hinge. 7115130P11 Lockwasher: No. 15/32-32. 4033394P1 Nut, knurled: No. 15/32-32.		19C317366G5	26).
21 198216851P1 Contact. (£1, E2). 22 7150186P111 Spacer, sleeve. 23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.	19	19E500908P1	
7150186P111 Spacer, sleeve. 7141225P3 Hex nut: No. 6-32. Lockwasher, internal tooth: No. 6. N136P503C Tap screw: No. 2-32 x 3/16. N404P8C13 Lockwasher, internal tooth: No. 2. Retainer strap: sim to Panduit Corp. SST-1. Hall5185P2 Retainer strap: sim to Thomas and Betts TY-525M PB216619G1 Hinge. T115195P2 Hex nut: No. 15/32-32. Lockwasher: No. 15/32; sim to Shakeproof 1222-1 Nut, knurled: No. 15/32-32.	20	1	
23 7141225P3 Hex nut: No. 6-32. 24 N404P13C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.	21		
24 N404Pl3C6 Lockwasher, internal tooth: No. 6. 25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8Cl3 Lockwasher, internal tooth: No. 2. 27 19Al15185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19Al15185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130Pl1 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394Pl Nut, knurled: No. 15/32-32.			
25 N136P503C Tap screw: No. 2-32 x 3/16. 26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19Al15185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19Al15185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.		<u> </u>	
26 N404P8C13 Lockwasher, internal tooth: No. 2. 27 19Al15185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19Al15185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.		i	<u> </u>
27 19A115185AP5 Retainer strap: sim to Panduit Corp. SST-1. 28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.		i	<u> </u>
28 19A115185P2 Retainer strap: sim to Thomas and Betts TY-525M 29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.			
29 19B216619G1 Hinge. 30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.			
30 7115195P2 Hex nut: No. 15/32-32. 31 7115130P11 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394P1 Nut, knurled: No. 15/32-32.			
31 7115130Pl1 Lockwasher: No. 15/32; sim to Shakeproof 1222-1 32 4033394Pl Nut, knurled: No. 15/32-32.			_
32 4033394P1 Nut, knurled: No. 15/32-32.			
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33	33	19B201074P305	Tap screw, Phillips POZIDRIV®: No. 6-32 x 5/16.

SYMBOL	GE PART NO.	DESCRIPTION
34	4036994P1	Terminal, solder: sim to Zierick Mfg Corp 505.
35	19A134403P1	Clip, cable.
36	19A134403P4	Clip, cable.
37	19D413686P2	Support.
38	19D413322G3	Support.
39	NP280287	Nameplate. (Used with 19D424289G1).
40	NP280290	Nameplate. (Used with 19D424289G2).
41	19B200525P4	Rivet, tubular.
42	19A136890G1	Guide.
43	19C317192G3	Plate.

PRODUCTION CHANGES

Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A - Multi-Charger 19D424289G2
To prevent fuse from blowing when power is initially applied.
Changed F802.

