

SERVICE PROCEDURE JD0039

PRODUCT: SCR/SCRF BATTERY CHARGERS

SUBJECT: FIELD INSTALLATION OF BATTERY DISCHARGE ALARM

Reference: (1) Schematic Diagram EJ0120

Materials required

BDA Kit (see Table I)
Terminal board (TB3)

Tools required

Standard hand tools
Wire crimpers, cutters, and stripper
DC voltmeter (DVM preferred)

Procedure

1. Disconnect both AC and DC power to the charger.
2. Check the BDA kit part number against the nameplate rating of your charger according to Table I below.
3. Locate a suitable position on the mounting base assembly to install the P.C. board A5, resistors R82(may not be required), R71, shunt SH3, and the terminal board TB3. Most mounting bases have suitable mounting holes, or one hole and one slot for each component.
4. Be sure to install the PC board so the connector, SO5, has sufficient clearance. Be certain that SH3 is easily accessible and has plenty of room for large gauge wires and also that TB3 is in a convenient location for connecting remote alarm wiring as required for your application.
5. For the indicator light, DS10, punch or drill (1) 1/2 inch hole in the instrument panel (some panels have existing holes that you can use). Mount the indicator lamp and label the front panel with the designation "Battery Discharge".
6. Refer to schematic diagram, ref. 1. Wire SO5, SH3, R82, R71, DS10, TB2, and TB3 according to ref 1. Size the load wiring according to the current demanded.
7. The BDA detector PC board (A5) has been adjusted at the factory to the value specified in the Operating and Service Instructions for the charger. Potentiometer R5 can be adjusted to obtain an alarm indication at the desired discharge current.

8. Check all wiring for accuracy. Restart the charger according to Sec II-4 of the Operating and Service Instruction Manual.

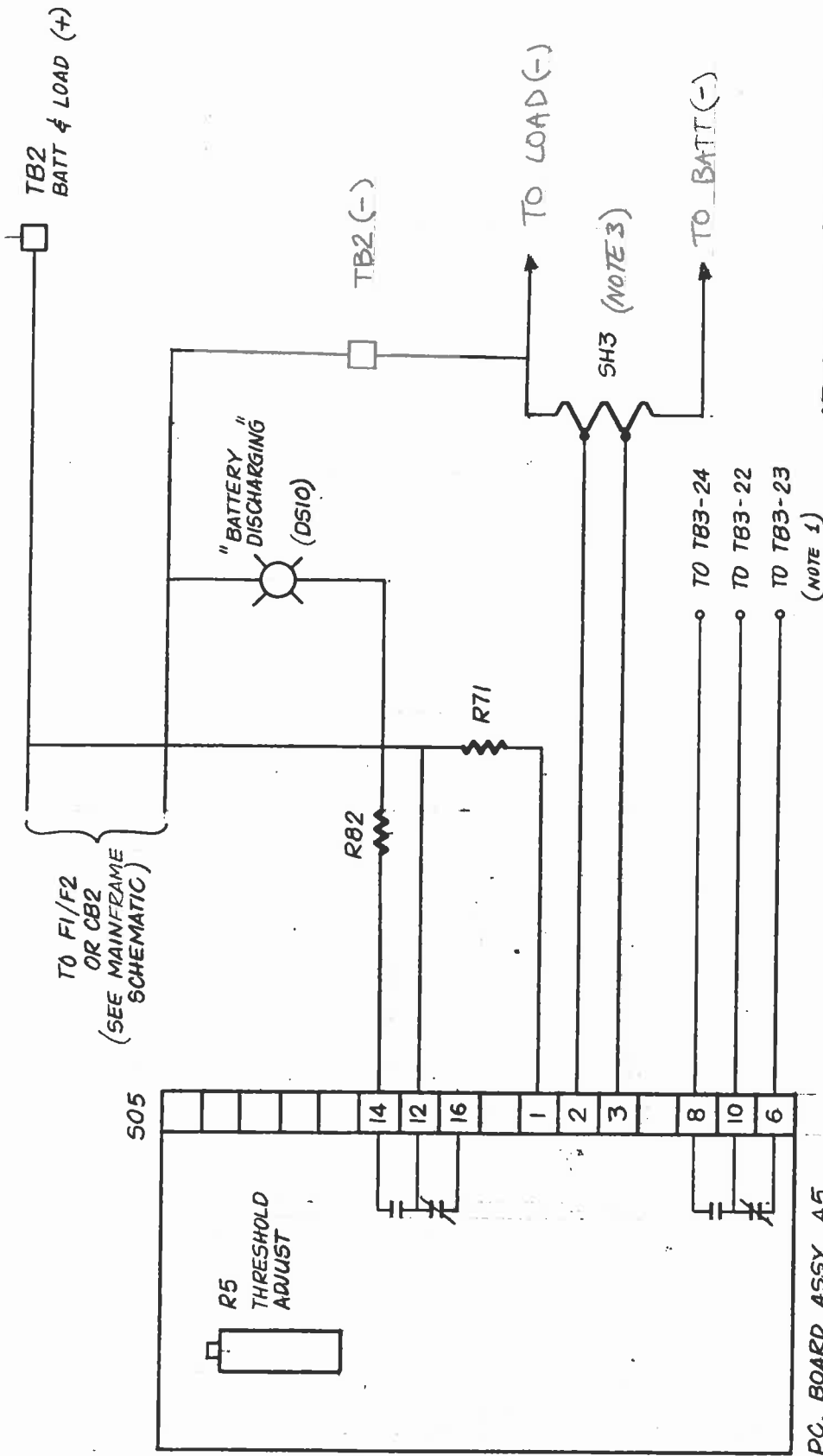
Table I: Battery Discharge Alarms

| Charger Voltage | BDA Kit Part # |
|-----------------|----------------|
| ----- | ----- |
| 12 | EJ0120-01 |
| 24 | EJ0120-02 |
| 48 | EJ0120-05 |
| 130 | EJ0120-06 |
| 260 | EJ0120-07 |

Parts Availability

| Item | Factory Part Number |
|--------------------|---------------------|
| ----- | ----- |
| BDA Assy | EJ0120-XX (Note 1) |
| Terminal Bd. (TB3) | RC0004-01 |

Note (1) See Table I above for complete part number (replace -XX with proper variation number).



PC. BOARD ASSY A5

- NOTES: 1.- CONTACTS SHOWN IN NON-ALARM CONDITION.
 2.- ADJUST R5 TO OBTAIN AN ALARM INDICATION AT DESIRED DISCHARGE CURRENT.
 3. SHUNT 3 SHOWN WITHOUT FUSE PROTECTION FOR LOAD SHORT CIRCUIT.

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TITLE BATTERY DISCHARGING ALARM & INDICATING LIGHT

| | | | | | | | |
|---------------------------------|---|--------|---------|---------------|-----|--------------|-----|
| SHEET OF | 4 | SHEETS | EJ 0120 | REV. | 3 | APPROVED BY: | WKS |
| J.N. | | DATE | 6/7/85 | DRAWN BY: | CAI | | |
| TOLERANCES UNLESS FRACT. ± 1/64 | | SCALE | | DECIM. ± .005 | | | |
| OTHERWISE NOTED: | | —1— | | | | | |

| | | | | | | | |
|-----|---|-------|------|------|----------|----------|-----|
| REV | 3 | ECN # | 2184 | DATE | 10-22-85 | APPROVED | WKS |
|-----|---|-------|------|------|----------|----------|-----|