

**FIELD INSTALLATION INSTRUCTIONS
CHARGER FAILURE ALARM (EJ0127-XX)****Equipment Required**

- 1) Existing SCR/SCRF Series Battery Charger
- 2) Charger Failure Alarm (CFA) Field Replacement Kit (EJ0127-99):
 - Charger Failure Alarm Option (EJ0127-XX)
 - 3-Position Remote Alarm Terminal Block (TB3)

Tools Required

- standard hand tools
- wire crimpers, cutters & stripper
- dc voltmeter (DVM preferred)

Procedure

1. According to Table I on Sheet 2 of 4, check the Charger Failure Alarm option part number (EJ0127-**XX**) against the dc output voltage rating of battery charger, listed on the data nameplate.
2. Locate a suitable position on the charger mounting base assembly to install the CFA PC board brackets. Most mounting bases already have suitable mounting holes, or one hole and one slot.
3. Mount the brackets using the supplied 6-32 hardware. Mount the PC board on the brackets, making sure the PC board foil is not touching the brackets or mounting hardware. Mount the terminal block in the location provided for TB3.
4. Using the supplied #20 AWG wire, wind four (4) turns around the coil of the main inductor (L1). Connect one end of this winding to TB2(-). Connect the other end to Pin 1 of the PC board plug (PL3).
5. Refer to the schematic diagram (sheet 3 of 4) and connection diagram (sheet 4 of 4). Wire the connector, PL3, and the terminal board according to the diagrams and the requirements of your application.
6. If an indicator lamp (DS07) is required, punch or drill a 1/2in hole in the instrument panel (some panels may already have a hole punched). Be sure to prevent metal chips from getting inside the charger. Mount the indicator lamp, and label the front panel with the appropriate function ("CHARGER FAILURE").
7. Route the wires from PL3 to their appropriate destinations (note that indicators, if supplied, use quick-connect terminals). Mount R52 and the two-position terminal strip in a clear location near the PC board so that the resistor does not heat any of the board components.

NOTE: USE SAFETY GLASSES WHEN SOLDERING ELECTRONIC COMPONENTS

8. The Charger Failure Alarm circuit board has been adjusted at the factory to provide an alarm at 2% or less of the rated battery charger output current. If field adjustment of the CFA is required, adjust R17 to obtain an alarm at the desired output current. The current may be varied between zero and 2% of rated output by adjusting the Float Adjustment Potentiometer on the front panel of the battery charger. The battery or a small resistive load should be connected for this procedure. When the desired alarm operating point is obtained, be sure to reset the Float Adjustment Potentiometer to the recommended value for the batteries.

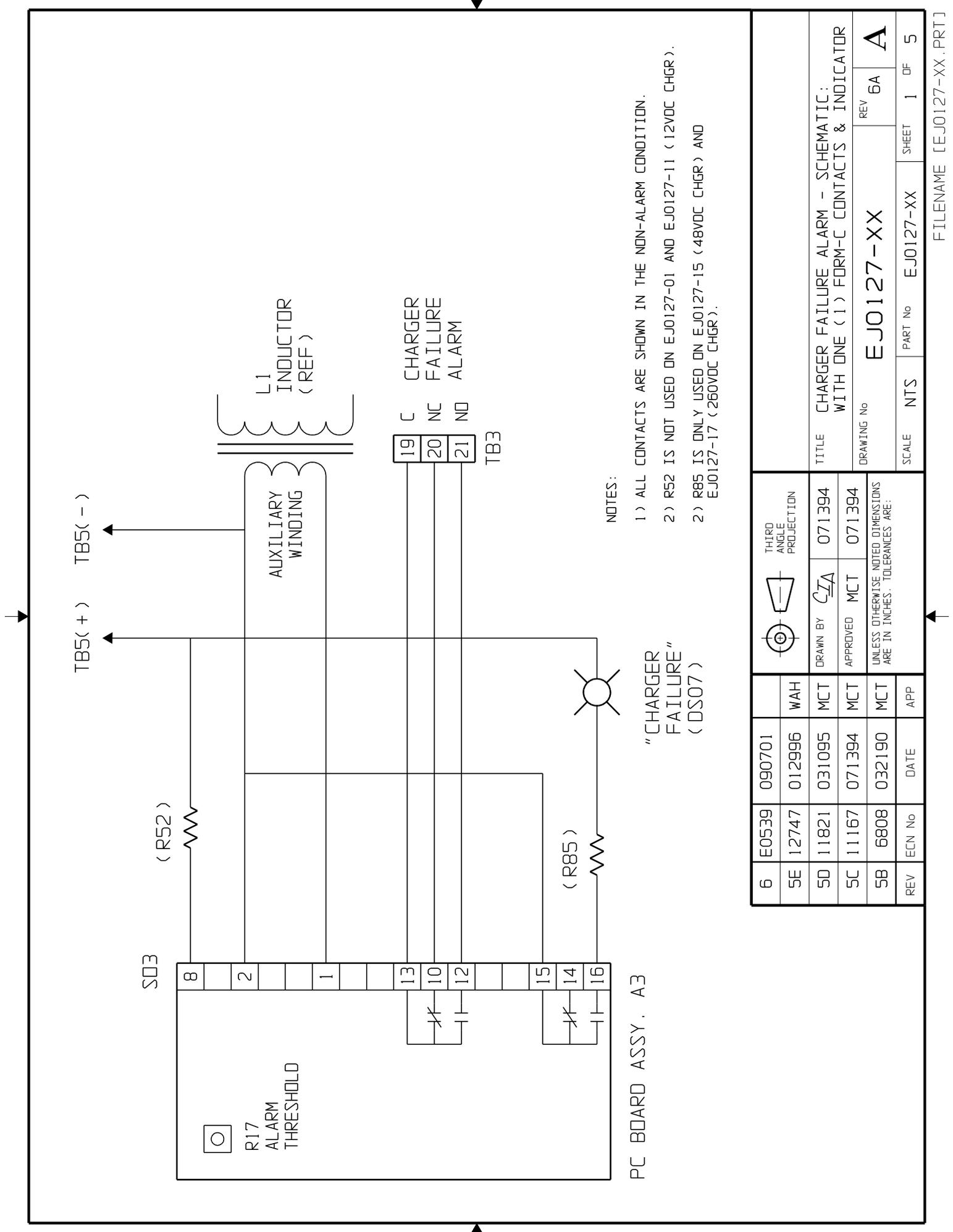
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TABLE I: CHARGER FAILURE ALARM OPTIONS

Battery / Bus Voltage	Standard Charger Failure Alarm Option Part No	Charger Failure Alarm w/Indicator Option Part No	Resistor R52 ⁽¹⁾
12 Vdc	EJ0127-01	EJ0127-11	N/A
24 Vdc	EJ0127-02	EJ0127-12	3W, 120 Ohm
30 Vdc	EJ0127-03	EJ0127-13	5W, 200 Ohm
36 Vdc	EJ0127-04	EJ0127-14	5W, 300 Ohm
48 Vdc	EJ0127-05	EJ0127-15	5W, 500 Ohm
130 Vdc	EJ0127-06	EJ0127-16	25W, 1.5K
260 Vdc	EJ0127-07	EJ0127-17	25W, 3.0K

Notes

(1) Resistor values of +/- 10% are acceptable.



PC BOARD ASSY. A3

NOTES:

- 1) ALL CONTACTS ARE SHOWN IN THE NON-ALARM CONDITION.
- 2) R52 IS NOT USED ON EJ0127-01 AND EJ0127-11 (12VDC CHGR).
- 2) R85 IS ONLY USED ON EJ0127-15 (48VDC CHGR) AND EJ0127-17 (260VDC CHGR).

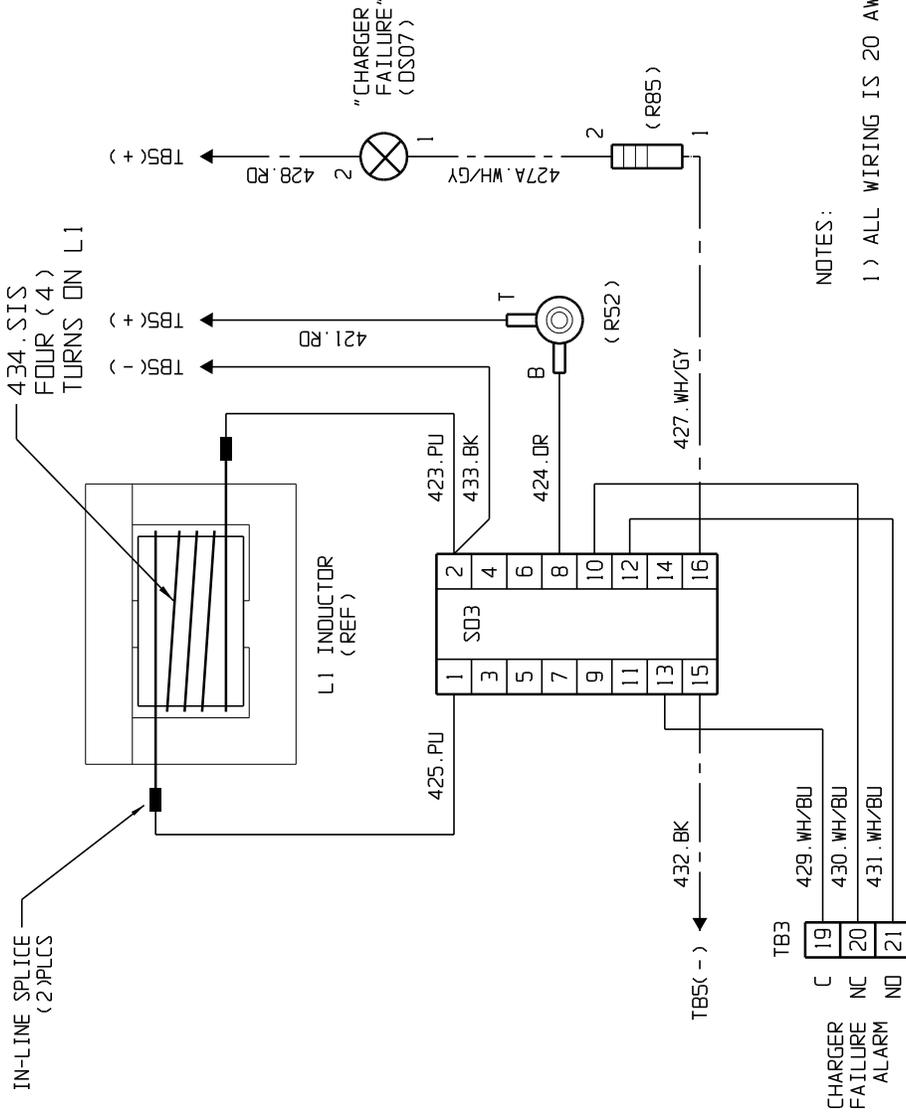
6	E0539	090701	WAH	THIRD ANGLE PROJECTION	
5E	12747	012996	MCT	DRAWN BY CZA	071394
5D	11821	031095	MCT	APPROVED MCT	071394
5C	11167	071394	MCT	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
5B	6808	032190	MCT		
REV	ECN No	DATE	APP		

TITLE	CHARGER FAILURE ALARM - SCHEMATIC : WITH ONE (1) FORM-C CONTACTS & INDICATOR	
DRAWING No	EJ0127-XX	REV 6A
SCALE	NTS	PART No EJ0127-XX
SHEET	1	DF 5

W I R E L I S T

No.	CODE	FROM	TO
421	RD	TB5(+)	R52-T
423	PU	S03-02	L1-#434
424	OR	S03-08	R52-B
425	PU	S03-01	L1-#434
429	WH/BU	S03-13	TB3-19
430	WH/BU	S03-10	TB3-20
431	WH/BU	S03-12	TB3-21
433	BK	S03-02	TB5(-)
434	SIS	(4) TURNS ON L1	

W I R E L I S T (I N D)			
427	WH/GY	S03-16	R85-1
427A	WH/GY	DS7-1	R85-2
428	RD	DS7-2	TB5(+)
432	BK	S03-15	TB5(-)



NOTES:

- 1) ALL WIRING IS 20 AWG. UNLESS OTHERWISE SPECIFIED.
- 2) PHANTOM LINES DENOTE INDICATOR WIRING, WHEN APPLICABLE.
- 3) R85 AND WIRE #427A ARE ONLY USED ON EJO127-15 (48 VDC CHGR) AND EJO127-17 (260 VDC CHGR).
- 4) R52 AND WIRE #424 ARE NOT USED ON EJO127-01 AND EJO127-11 (12VDC CHGR).

	THIRD ANGLE PROJECTION	TITLE	CHARGER FAILURE ALARM - WIRE LIST & CONNECTION DIAGRAM WITH ONE (1) FORM-C CONTACTS & INDICATOR		
	DRAWN BY <i>CZA</i> APPROVED <i>MCT</i>	071394 071394	DRAWING No	EJO127-XX	REV 6A
UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		SCALE	NTS	PART No EJO127-XX	SHEET 5 OF 5