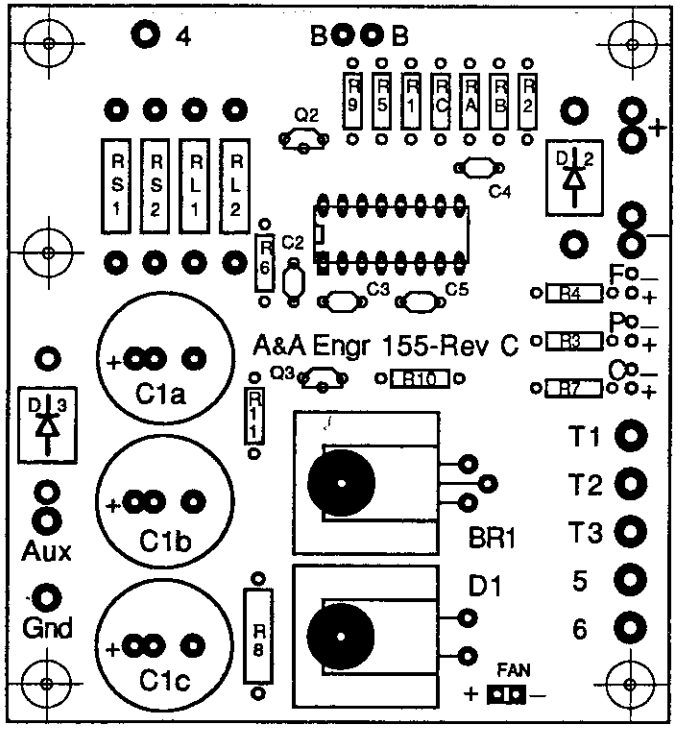

NOTE:

The A & A Engineering Smart Battery Charger provides for some options. The schematic diagram and component layout drawing show these options. Not all of the parts shown are used for each version. Refer to the specific parts list for details concerning the parts required for the version of the charger you are working with.

#155 Rev C - Smart Battery Charger

Parts List for 12V @ 5 Amp version

REF DES	QTY	DESCRIPTION		
R1,2	2	100 KΩ	1/4 W 5%	BN-BK-YL-GD
R3,4,7	3	2 KΩ	1/4 W 5%	RD-BK-RD-GD
R5,9	2	2.2 Ω	1/4 W 5%	RD-RD-GD-GD
R6,10	2	4.7 KΩ	1/4 W 5%	YL-VI-RD-GD
R11	1	1 KΩ	1/4 W 5%	BN-BK-RD-GD
R8	1	100 Ω	1/2 W 5%	BN-BK-BN-GD
RA	1	97.6 KΩ	1/4 W 1%	WT-VI-BL-RD-BN
RB	1	20 KΩ	1/4 W 1%	RD-BK-BK-RD-BN
RC	1	392 KΩ	1/4 W 1%	OR-WT-RD-OR-BN
RS1,RL1	2	0.025 Ω	3 W 1%	1/40 of an ohm
RS2,RL2	NOT USED			
C1a,b,c	3	4700 µf	Radl	35V
C2	1	.47 µf	Mono	(474)
C3	1	.22 µf	Mono	(224)
C4	1	1.0 µf	Mono	(105)
C5	1	.1 µf	Mono	(104)
D1	1	STPS745D	7.5 Amp Power Diode	
D2	1	6A05	6 Amp Power Diode (or equiv)	
D3	NOT USED			
LEDp	NOT USED		DC Power LED	
LEDf	1	RED LED	Final LED	5 mm
LEDc	1	GRN LED	Charging LED	5 mm
BR1	1	STPS20H100CT	10 Amp Diode Bridge	
U1	1		UC3906 IC	
Q2,3	2	2N2907	PNP Sig Transistor (or equiv)	
SOC	1		16 pin IC socket	
Wire	2	5 inches	#24 BLACK	
Wire	1	5 inches	#24 GREEN	
Wire	1	5 inches	#24 RED	
Htsk	2	492-255	Custom Heatsinks	
Hrdw	2	Screw	6-32 X 5/16	
Hrdw	2	Nut	6-32 KEP	
Hdr	1		2 pin .100 centers	
Hrdw	1	Screw	4-40 X 1/4	
Hrdw	1	Screw	4-40 X 1/2	
Hrdw	1	Nut	4-40 KEP	
Misc	1	L Bracket	Key #612	
Misc	1	Fan	12VDC 40 mm	
PCB	1	155 Rev C	Circuit Board	

NOTICE

Only the board mounted components are listed here
Other components vary depending on version of charger
Power Transformer, Ampmeter, Fuses, Power Transistor, etc are listed elswhere

A & A Engineering	2521 W. La Palma, Unit K Anaheim, CA. 92801 USA	
SCALE n/a		DRN BY STAS A
DATE 18 MAY 87		REV 31 JAN 05
Smart Battery Charger - High I		
Component Layout	DRAWING NUMBER 492-155	REV C