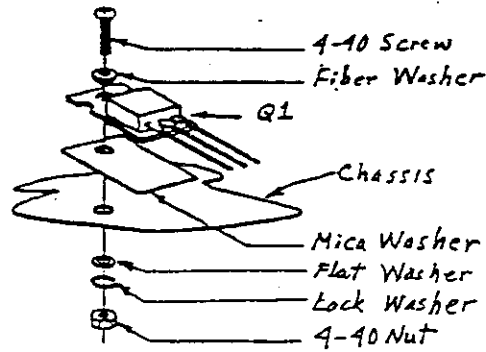


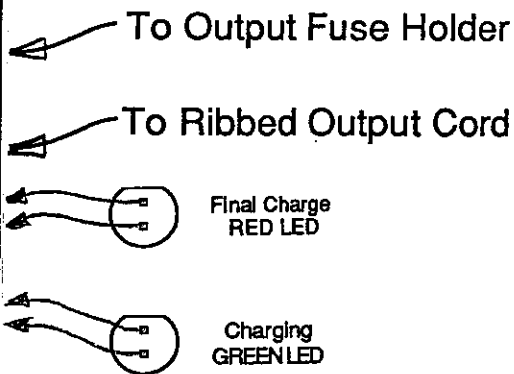
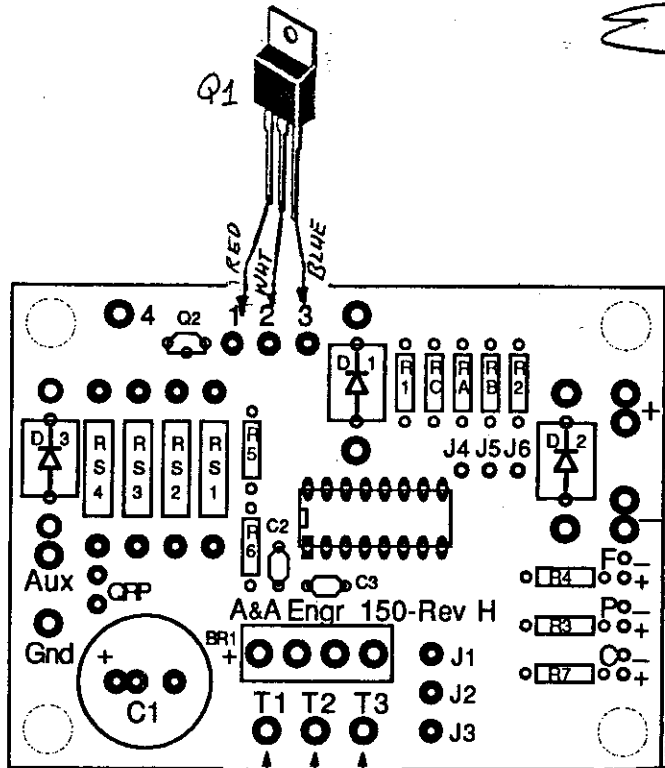
# #150 Rev H Smart Battery Charger

## Parts List for 12V @ 1 Amp version

REF	DES	QTY	DESCRIPTION		
R1,2		2	100 KΩ	1/4 W 5%	BN-BK-YL-GD
R3,4,7		3	2.2 KΩ	1/4 W 5%	RD-RD-RD-GD
R5		1	10 Ω	1/4 W 5%	BN-BK-BK-GD
R6		1	560 Ω	1/4 W 5%	GN-BL-BN-GD
RA		1	100 KΩ	1/4 W 1%	BN-BK-BK-OR-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,RS2		2	1/2 Ω	1 W 5%	GR-BK-SL-GD
RS3,RS4		NOT USED	(for QRP version)		
C1		1	1000 µf	Radl	35V
C2		1	.47 µf	Mono	(474)
C3		1	.1 µf	Mono	(104)
D1,D2		2	1N4004	1 Amp Power Diode	
D3		NOT USED	(for AUXILIARY or Solar DC input)		
DSp		NOT USED	DC Power LED		
DSf		1	RED LED	Final LED	5 mm
DSc		1	GRN LED	Charging LED	5 mm
BR1		1	2 Amp	Diode Bridge	
U1		1	UC3906	IC	
Q1		1	TIP42/32	PNP Pwr Transistor	
Q2		NOT USED	(for custom darlington driver)		
T1		1	SSA-7-16	Power Transformer	
F1		1	Input Fuse	1/2 amp 3AG	
F2		1	Output Fuse	2 amp 3AG	
SOC		1		16 pin IC socket	
Wire		3	2 inches	#24 RED, WHITE, BLUE	
Wire		2	6 inches	#24 BLACK	
Wire		1	6 inches	#24 GREEN	
Wire		1	6 inches	#24 RED	
Misc		7	1/2 inch	shrink tubing (.093)	
PCB		1	150 Rev H	Circuit Board	

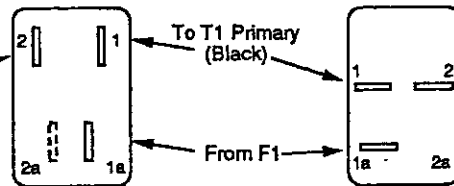


**Q1 Mounting Details**



From Power Transformer

From T1 Primary (Brown) and AC Cord Common



**AC Switch - Rear View**  
Either of two different styles may be supplied

**NOTICE**  
Two wire jumpers are required for the standard version of the charger. See options available in the instructions. Use discarded component leads to make the connections.  
**Jumper J1 to J2 and J5 to J6**

**NOTE:**

The A & A Engineering circuit board provides for some options. The schematic and component layout show some of the options.

Not all of the parts shown are used for each version. Refer to the parts list for details concerning the version you are working with.

<b>A &amp; A Engineering</b>		2521 W. La Palma, Unit K Anahem, CA. 92801 USA
SCALE n/a		DRN BY STAS A
DATE 18 MAY 87		REV 14 JUN 06
<b>Smart Battery Charger - Low I</b>		
Component Layout	DRAWING NUMBER 492-150	REV H