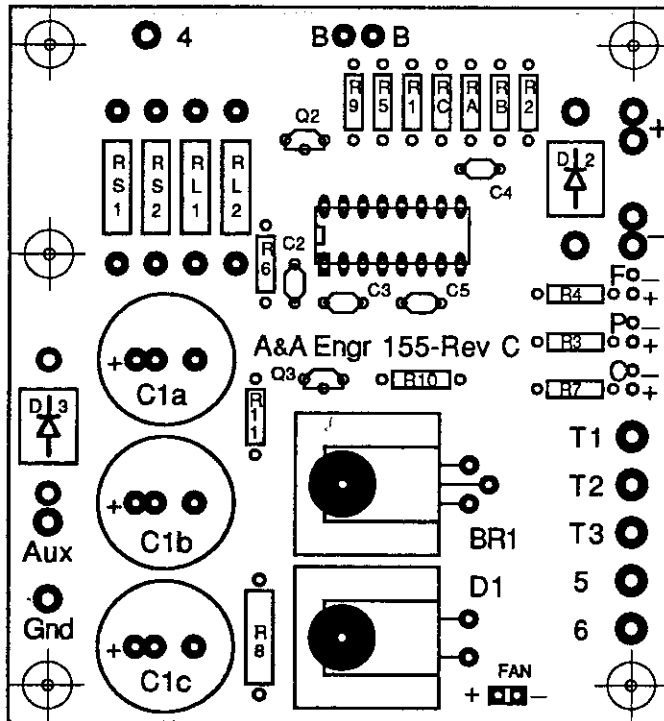


#155 Rev C - Smart Battery Charger

Parts List for 12V @ 5 Amp version



| REF | DES | QTY | DESCRIPTION | | |
|---------|-----|-----|-----------------|-------------------------------|----------------|
| R1,2 | | 2 | 100 K Ω | 1/4 W 5% | BN-BK-YL-GD |
| R3,4,7 | | 3 | 2 K Ω | 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 K Ω | 1/4 W 5% | YL-VI-RD-GD |
| R11 | | 1 | 1 K Ω | 1/4 W 5% | BN-BK-RD-GD |
| R8 | | 1 | 100 Ω | 1/2 W 5% | BN-BK-BN-GD |
| RA | | 1 | 97.6 K Ω | 1/4 W 1% | WT-VI-BL-RD-BN |
| RB | | 1 | 20 K Ω | 1/4 W 1% | RD-BK-BK-RD-BN |
| RC | | 1 | 392 K Ω | 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 | | 2 | NOT USED | | |
| C1a,b,c | | 3 | 4700 μ f | Rad1 | 35V |
| C2 | | 1 | .47 μ f | Mono | (474) |
| C3 | | 1 | .22 μ f | Mono | (224) |
| C4 | | 1 | 1.0 μ f | Mono | (105) |
| C5 | | 1 | .1 μ f | 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 | 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 elsewhere

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.

| | | | |
|---------------------------------------|--|--|-----|
| A & A Engineering | | 2521 W. La Palma, Unit K Anahelm, 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 | REV |
| | | 492-155 | C |