

# Assembling the PS1

## Parts List

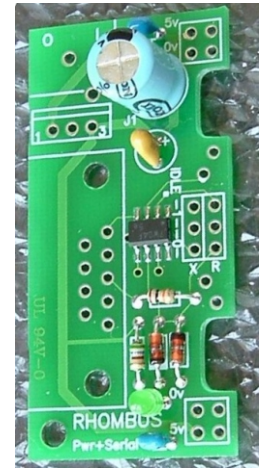
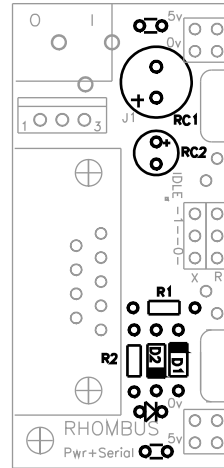
### Stage1:

- |                              |         |
|------------------------------|---------|
| 1 100uF 50v Electrolytic Cap | RC1     |
| 1 10uF 6.3v Tantalum Cap     | RC2     |
| 1 C/Film 560 Ohm 1/8W Res    | R1      |
| 1 C/Film 10k 1/8W Res        | R2      |
| 2 Schottky Diode SD103C-TP   | D1,D2   |
| 1 3mm Green LED              | L1      |
| 2 0.1uF Dipped Ceramic Cap   | DC1,DC2 |

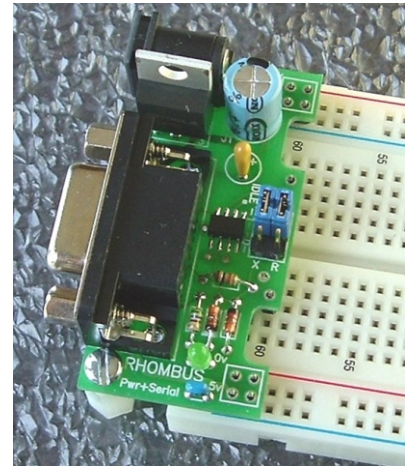
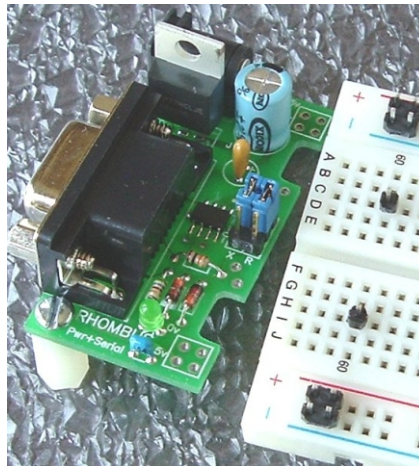
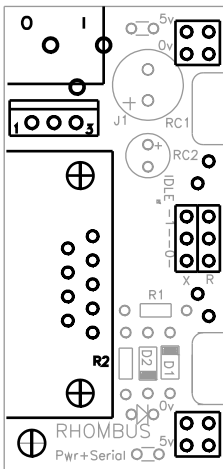
### Stage2:

- |                                 |            |
|---------------------------------|------------|
| 1 2.1mm Power Jack              | J1         |
| 1 5v Regulator 7805             | VR1        |
| 1 DB9 Female Connector          | J2         |
| 2 Double Row Male Header 2 Posn | 0v/5v      |
| 1 Double Row Male Header 3 Posn | JX,JR      |
| 2 Male Header 1 Posn            | (see text) |
| 1 Nylon Stand-Off & 4-40 Screw  |            |
| 2 0.1" Shunt                    |            |

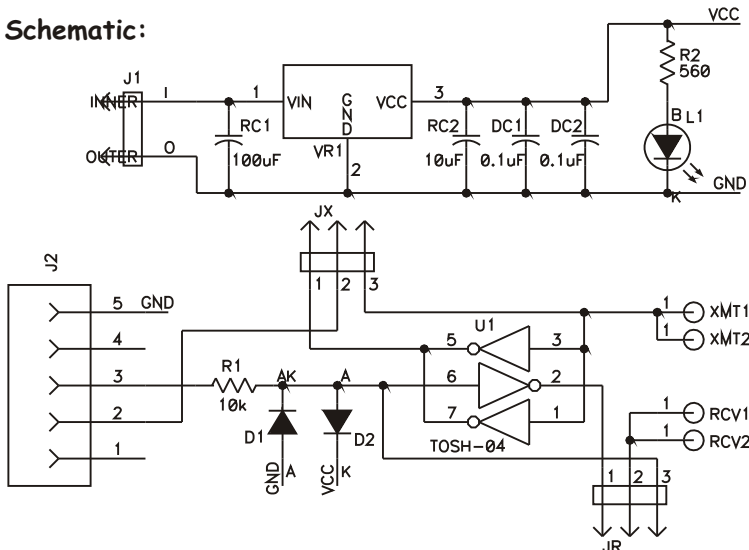
### Stage1:



### Stage2:



### Schematic:



### Notes:

- The PCB is supplied with the 74HC04 already mounted.
- It is important that Header Pins are positioned in the Breadboard & the Stand-Off mounted, before soldering.
- The 2 single Pins have optional mating holes in th PCB to allow for Breadboards that have a 0.05" offset between power and signal rails.
- The Upper/Lower are Xmt/Rcv Pins.
- To avoid confusion, RS232 True and Inverted terminology is replaced by 'Idle at 1' and 'Idle at 0' with the Shunts in the High/Low positions respectively - they are shown High.