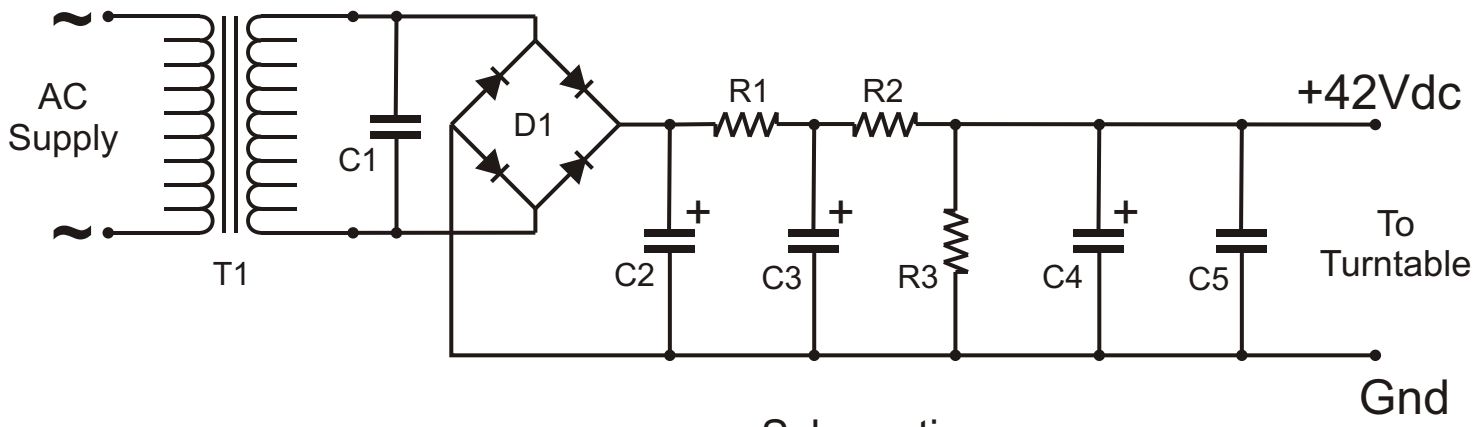
Technics SL-1200 Mk2/5 DIY PSU



Schematic

PARTS LIST (Farnell Part No)

T1 Stock Technics transformer with 32Vac Secondaries.

D1 Rectifier 1N4007 Std Recovery Diodes (x4) 1A, 100V, Axial, DO-41 form (1467514)

Capacitors
C1/C5 0.22uF Polyester Film 100V 10% Radial (1215473)
C2/C3/C4 4700uF 63V 20% Aluminium Electrolytic, Radial Snap-In, 10mm Ctrs. Dia 25mm (1198722)

Resistors
R1/R2 10 Ohm Wirewound 3W, 5%, Axial (1751825)
R3 2200 Ohm Wirewound 3W, 5%, Axial (1751857)

} Resistors Should be no bigger than 5.5mm diameter so the 6mm PCB stand off legs can create clearance with the case floor.

When fitting the components into a case it's a good idea to incorporate an on/off switch and a fuse into the AC supply feeding the transformer. Also drill a few holes in the case to aid cooling.

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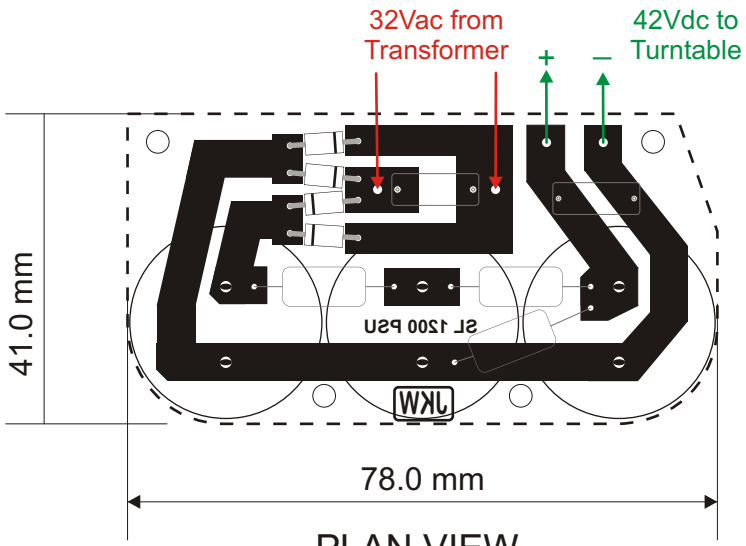
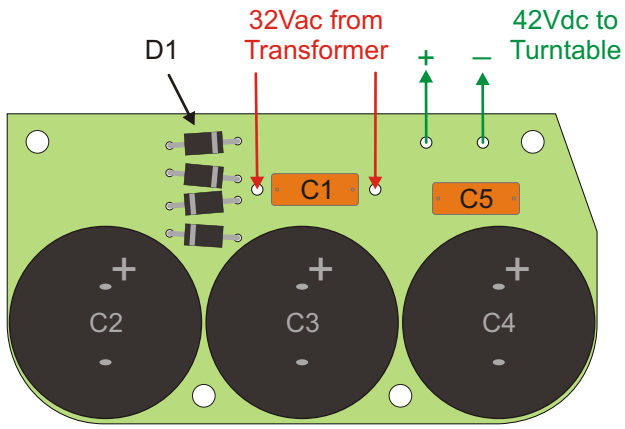


PLAN VIEW

Transparent Board
Shows Connectivity

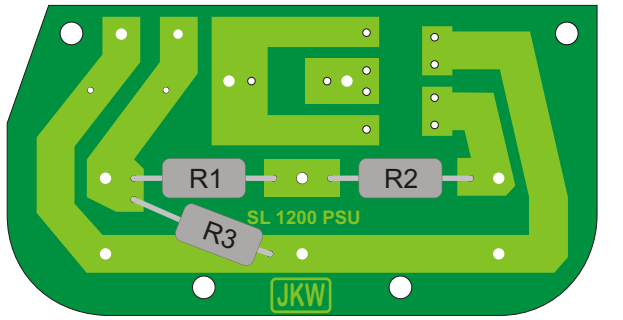


PLAN VIEW

Note the orientation of the diodes at D1.
Also the orientation of Capacitors C2/C3/C4 these three large caps should be fitted after resistors R1/R2/R3 and preferably last.

The labelling of the parts matches the schematic diagram and parts list.

TIPS:
1). It doesn't matter which way round you connect the Yellow leads (32Vac) from the Transformer to the board.
2). The Output (42Vdc) should be connected to the TT main board. You can use a screened lead for this if you prefer and connect the screen to the TT main grounding point at the left corner screw fixing on the main PCB.
3). Straighten the large capacitor contacts with pliers before fitting and add a bead of hot melt glue between them once in place, this will prevent vibrations, reduce stress on individual solder joints and make the whole thing more rigid.
4). The board should be mounted on 6mm Nylon stand offs to lift the resistors on the underside clear of the case floor.



REAR VIEW

Note the three resistors on the underside.
Push them flat against the PCB and Trim the legs so they are flush with the top surface after soldering.