

BorderPatrol MB PSU / Puresound A30 Installation Manual



Puresound A30



BorderPatrol

Installation instructions: Use in combination with the pictures and diagrams on pages 4-6

1. Disconnect the amplifier from the mains and allow to cool for 15mins.
2. Remove the valves and the bottom cover.
3. Locate the 3 WHITE high voltage wires that connect from the power transformer to the PCB. See picture.
4. De-solder these wires and insulate using heat shrink tubing. Make sure these wires are insulated and cannot make contact with anything inside the amplifier.
5. Locate the choke/inductor.
6. De-solder and insulate the **Red** wire connecting the choke to the PCB.
7. Drill a 10mm hole on the back chassis panel between the fuse and the 8ohm speaker terminal. Be very careful not to damage anything inside the amplifier when drilling.
8. Fit the cable gland supplied and feed through the BorderPatrol connection cable.
9. Solder the **RED** wire to the point previously used by the **Red** choke wire.
10. Solder the **GREEN** wire to the resistor leg shown on the diagram close to the 330uF electrolytic capacitor
11. Solder the **BLUE** wire to Pin7 of the 6550 valve socket as shown on the diagram
12. Solder the **YELLOW** wire to Pin2 of the 6550 valve socket as shown on the diagram.
13. Check your work. Make sure the insulation of the 3 WHITE wires is secure and safe. Dress the new cables using a cable tie.
14. Re-fit the valves. The central valves are no longer being used can also be re-fitted if you feel the look of the amplifier is improved.
15. Connect to the BorderPatrol PSU. Fit mains cable to both units and switch on.
16. With a multimeter, measure the voltage at the point where the **RED** wire from the BorderPatrol connection cable connects to the PCB. The voltage should read approx 410V.

If everything measures correctly, the amplifier is now be ready to play. Refit the bottom cover and enjoy!

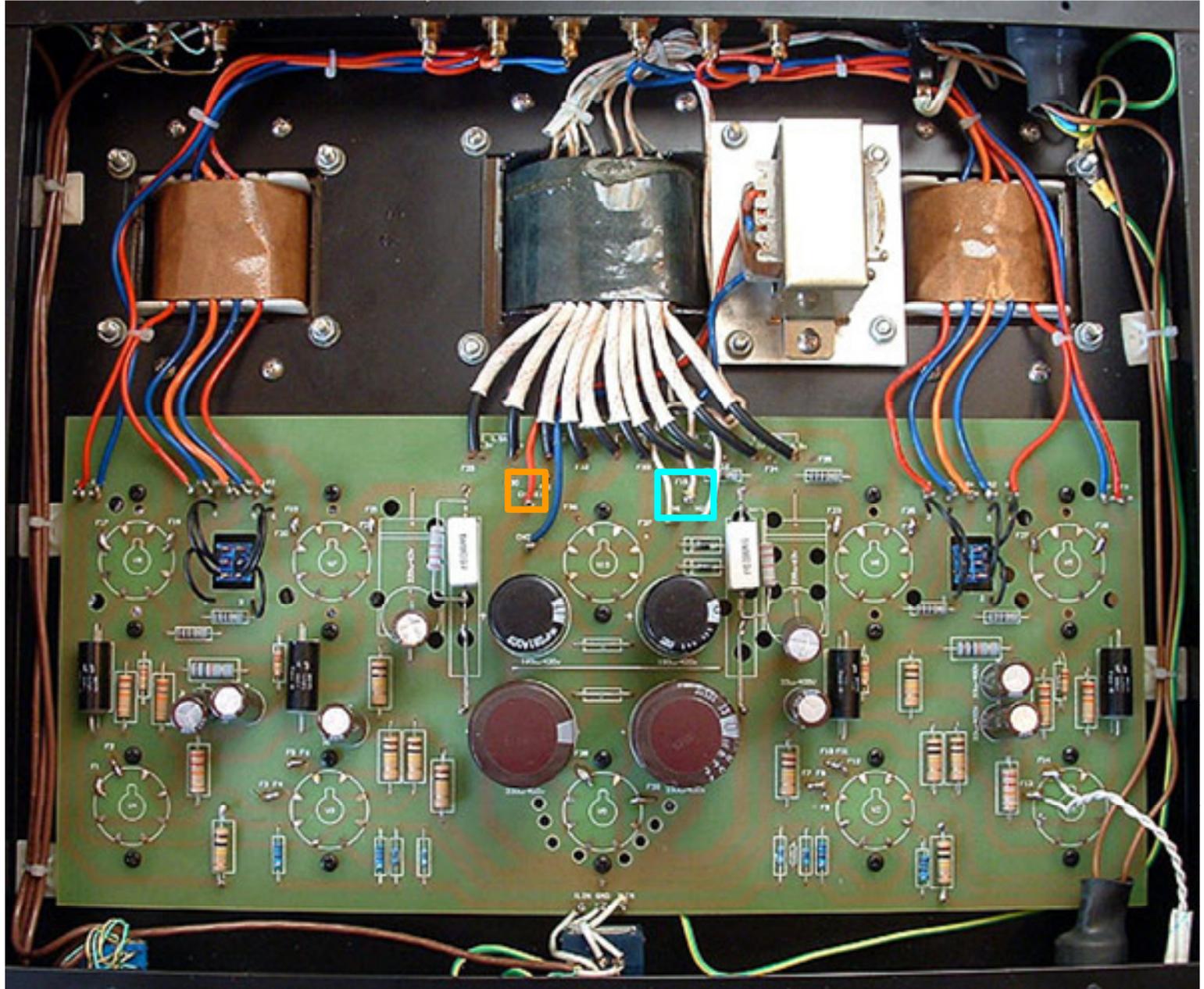
Disconnection of Puresound
A30 PSU



De-solder, remove and
insulate the 3 white
wires.



De-solder, remove and
insulate the red wire.



Connection of BorderPatrol PSU



Solder the Red wire to the tag where the red wire from the choke was previously connected.



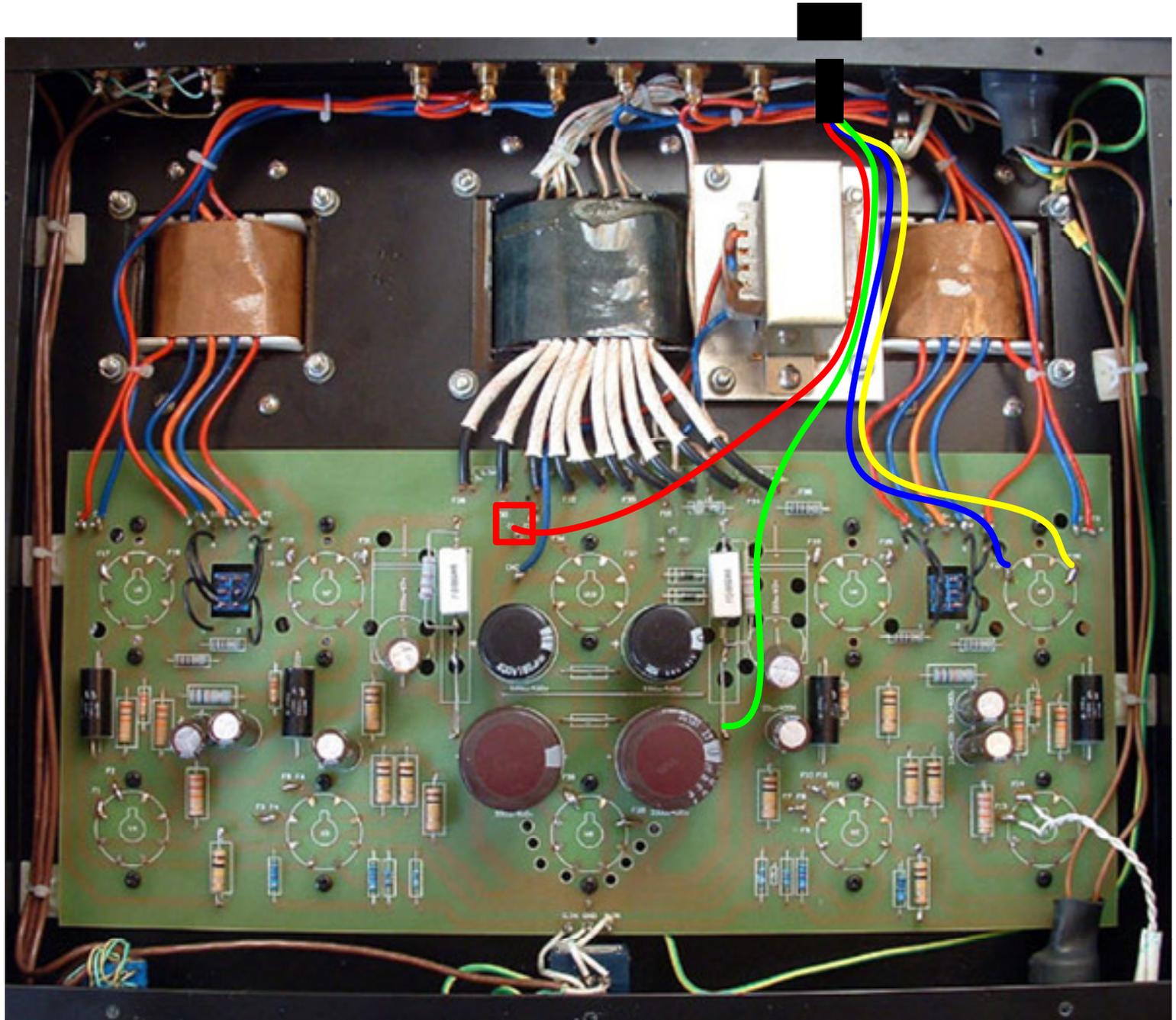
Solder the Blue wire to Pin 7 of the 6550 socket.



Solder the Yellow wire to Pin 2 of the 6550 socket.



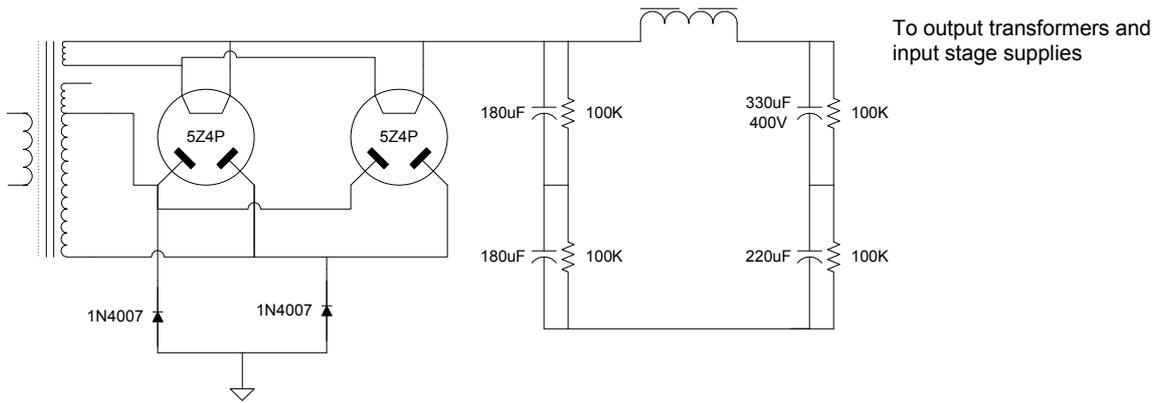
Solder to the leg of the resistor close to the brown 330uF capacitor as shown.



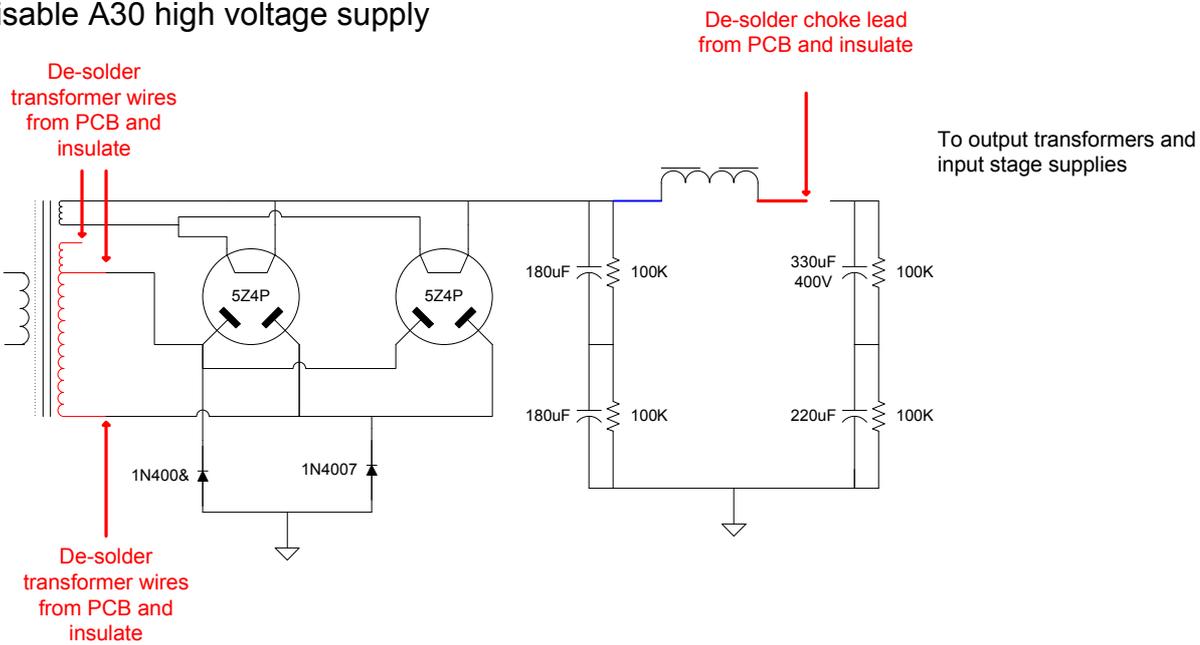
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Borderpatrol PSU installation instructions for PureSound A30 amplifier

PureSound A30 high voltage supply



Disable A30 high voltage supply



Connect BorderPatrol PSU

