



PCB Assembly

Circuit Notes

- Between different manufacturers of the 858D and 858D+ the circuit can differ slightly.
- This schematic is based on the pictures taken by Robert/Madworm of his Youyue 858D+ shown on his blog here: blog.spitzenfeil.org/wordpress/2013/11/23/youyue-858d-hotair-station-teardown/
- Component RefDes follows those of the Youyue, apart from C5, C11, Q2 and U4. (The board designers of the Youyue weren't consistent at all.)
- The wiring colours are different for each manufacturer so check yours.
- The pinouts of J1, J2 and J4 seem to be consistent across different units. J3's pinout isn't. Some units have the heater connections on pins 1 and 7, the AC mains on pins 2 and 6, and the transformer on pins 3 and 5
- For the mains plug wiring most units just put the cable through the enclosure. However some units come with an IEC input connector (with fuseholder).
- The hand piece / handle is usually also wired through the enclosure to the connectors on the PCB. There are units though, that use what seems to be a GX16-9 aviation connector pair. These have a potentially lethal problem: the connector on the bench unit uses male pins. It is very well possible that mains voltage is present on some pins even when the front panel mains switch is in the OFF position.

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