

1. Hand-soldering this surface mount PCB. I intentionally chose the physically largest SMD parts available, to make it less challenging to solder a Norwood board. Resistors and capacitors are in the big fat 1206 package (big and fat for SMD anyway!). ICs are in the SOIC-8 package, which is one of the easiest packages to hand solder. Special diyAudio footprints are used on the board, having extra copper to give you more room to feed in solder.

2. Integrated Circuit orientation (Pin 1). The silkscreen outline of the SOIC-8 package includes a large rectangle which denotes the package body, and a small rectangle, which denotes orientation. The small rectangle is on the end of the chip with Pin1 and Pin8. I've also placed a DOT on the PCB, next to Pin1. When you have the Norwood board oriented so the text "U4" and "U5" is right side up, the part number lettering on the ICs should be upside down. See the Build Guide by member 6L6 for photos.

3. Recommended soldering order. I suggest you solder all of the resistors first, just to polish your SMD skills a bit. Then solder the small capacitors (all but C6 and C7). Third, solder the two ICs. Fourth, solder the big zener diodes D3 and D4. Fifth, solder the 3-pin diodes (!) D1 & D2. Sixth, solder C6 and C7. Done! Remember: apply lots of flux, go slowly, and use a magnifier.