Start to assemble the potentiometer board by installing the pots and soldering in place. In the lower left-hand pic, the C250K pot is on the left and the A10K is on the right. When soldering, take care to make sure that the pots are at true right-angles to the board.



Slip the plastic standoff into its hole in the potentiometer board and push it till its ears click into place. Don't remove its adhesive backing yet. Set the pot board gently in place, making sure that it sits parallel with the floor of the enclosure and the shafts of the pots enter their holes without binding.

The last step in assembling the pot board is to solder in place the two female Molex connectors that will accept the plugs from the main board. Take care to get these in their correct holes; the camera angle makes it hard to see that the right-hand connector goes in holes 4, 5 and 6 from the right.



The next step is to wire and install the DC power jack, the male power connector and the battery snap. Begin by slipping a ³/₄" length of heat-shrink tubing onto the positive battery snap lead. Crimp the lead to the terminal on the jack, solder, and then conform the tubing to the connection using the side of your soldering iron.



In the same way, make the connection with the positive lead of the power connector. The negative leads of the battery snap and the power connector are both soldered to the remaining pin of the power jack. No insulation is needed there.



Before installing the assembly, thin down the shoulders of the insulating washers so that they will allow the washers to "grab" properly and not let the jack rotate. This can be done with sandpaper, or a grinding stone on a Dremel tool is ideal, if you have one.



The next step is to assemble and install the input and output jacks. First, cut off enough wire from the ends of the connector leads to leave them about $2\frac{1}{2}$ long overall. Strip $\frac{1}{4}$ from each end.

Start by locating the sleeve contact of the input jack and soldering the black center lead of the plug to this contact. The sleeve contact is the one on the beveled edge ("chamfer") of the jack. For ease of assembly later, it's best if the lead enters from the bottom of the contact and is bent at right-angles as shown before soldering.



If you positioned the jack as shown above, it will be clear where the leads for tip and ring are to go. Finish the input jack and assemble the output jack similarly.



Install the jack assemblies as shown below. The chamfer of the input jack is nearest to the battery compartment, and the chamfer on the output jack is nearest to the LED hole. It is OK at this point to route the leads of the battery snap between the jacks.

