Line Out Low Pass Filter Kit Assembly Instructions – V1.0

Note: Suggestions for the improvement of this manual are welcome.

Tools Required

1. Wire Stripper (use a small knife if not available)
2. Diagonal wire cutter
3. Soldering iron
4. Heat Gun (use soldering iron if not available)

Assembly

[ ] Locate the audio cable with green stereo connector on each end.

[ ] Measure 12″ from the end of one of the connectors and cut the cable into two pieces.

[ ] Strip .5″ of insulation from the cut end of each piece of audio cable.

[ ] Separate the shield wires and tightly twist them together so that the shield is adjacent to the black wire.

[ ] Strip .125″ of insulation from the black and brown wires on piece of cable.

[ ] Tin both brown and black wires and .125″ of the end of both shields.

[ ] Install the two 680Ω resistors at R1 and R2 (do not solder yet) bend and clip the beads.

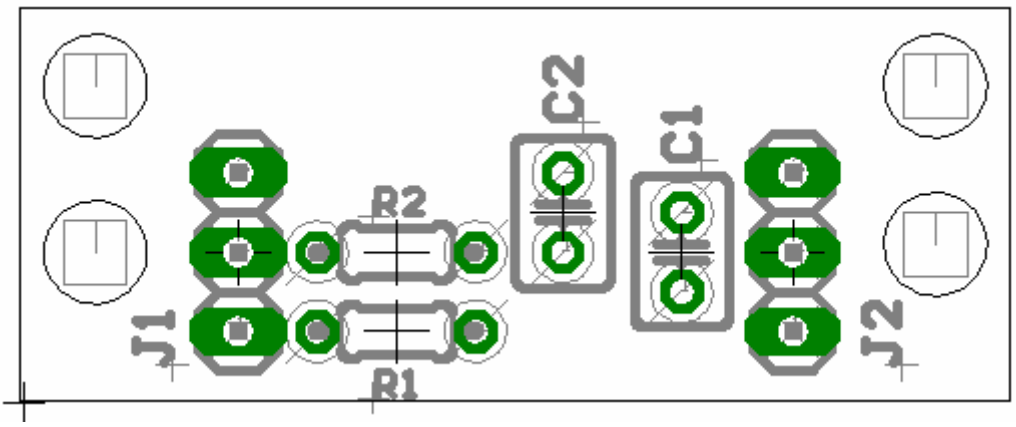

Figure 1

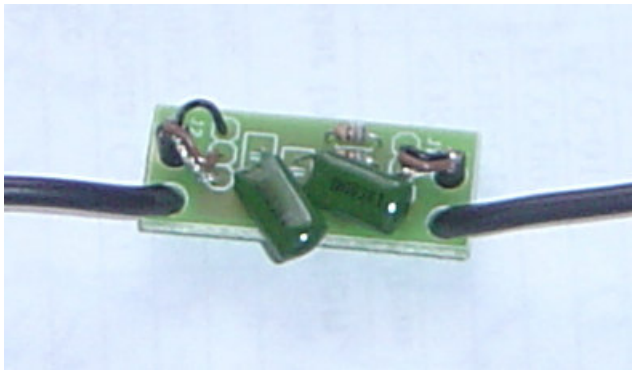

Figure 2

[ ] Push about 2" of the short cable through hole "A" from the component side of the board. Then push the same cable up through hole "B" leaving about .125" of the outside insulation extending up. Align the wires so that the shield wire is in line with larger hole in J1. [See Figure 2]

[ ] Insert the tinned ends of the shield and black and brown wires into the holes at "J1" in order from the component side of the board. Turn the board over and solder the shield wires. Solder the black and brown along with the adjacent resistor ends. Do not solder the other ends of the resistors.

[ ] Pull the cable at hole "A" up through the board until the bottom loop is flush with the board.

[ ] Push about 2" of the long cable through hole "C" from the component side of the board. Then push the same cable up through hole "D" leaving about .125" of the outside insulation extending up. Aligning the wires so that the shield wire is in line with larger hole in "J2". [See Figure 2]

[ ] Insert the tined ends of the shield, black and brown wires into the holes at "J2" in order from the component side of the board. Turn the board over and solder the shield wires and the black and brown wires.

[ ] Pull the cable at hole "C" up through the board until the bottom loop is flush with the board.

[ ] Install the two capacitors “C1” and “C2” on the component side of the board. Bend “C2” down onto the resistors. Bend “C1” onto “C2” to fit inside of the shrink tube. Solder both the capacitors and the adjacent ends of the resistors.

[ ] Check continuity between the connectors, tip to tip, and short ring to short ring. They should measure 680Ω each.

[ ] Insert the cable into the shrink tube centering the board in the tube. Apply heat to the tube until the tube is tight enough not to move off the board.

[ ] Recheck continuity.