

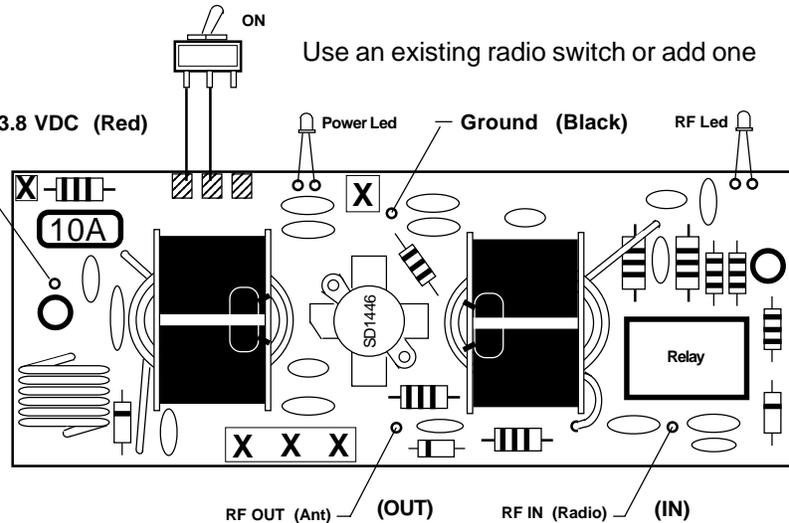
K100 In Radio Amplifier Kit

K100 Connections

Notes: Use the RF shield over the coil end of the K100 if RF feedback occurs

Use the short pieces of #14 wire to solder copper shield above the Transformer & Coil end to prevent feedback →

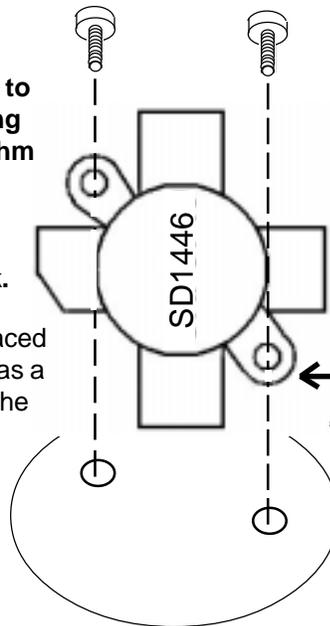
Points Marked X can be used to solder RF Shield support wires (Ground)
Use Insulator under shield



The power transistor should mount from the top of the K100 board. Bend the transistor tabs to each pad on the board checking for shorts. Move the small 10 ohm resistor, if necessary, to solder tabs securely. Use a generous amount of silicone compound between transistor & Heat Sink.

Bonus: The RF Led could be replaced with a Red or Blue Led and used as a "Amp On" indicator by extending the wires to a Led inside the meter

Radio Cover Hole aligned with Heat Sink on Bottom



Align heat sink holes with Radio Cover hole. Place Insulator on bottom. Transistor should line up with the K100 board so that the screws will mount the K100 board securely to the Radio Cover. Be sure that the notched tab of the RF transistor is correctly aligned as shown in the diagram above. The silicone compound goes under the transistor.

K100 Board Here

Plastic Insulator Here

Note: Greenlee punches are available at most Electrical Supply Stores

Installation :

- * Open the radio covers and centrally locate a suitable place to mount the K100 amplifier board. Make sure there is adequate room for the board and that it does not short to the radio circuit board.
- * Remove the radio speaker and mark the board location on the bottom cover. Mark the position of the power transistor hole on the bottom cover making sure that the heat sink will also line up on the bottom.
- * Drill a small pilot hole in the center of the transistor hole mark on the bottom cover. Cut a 1 1/4" dia. hole in the same place using a "Greenlee" punch or a hole saw in an electric drill. (see note above)
- * Mount the K100 board to the radio cover by positioning the heat sink on the bottom and sandwiching the plastic insulator on top. The K100 board will be held in place by the screws of the power transistor.
- * Solder the transistor tabs down to the K100 board making sure to align the notched tab correctly. Move the large 10 ohm resistor, if necessary, to solder the tabs down securely.
- * If the switch shown in the diagram is not used, solder the Red wire from the K100 to the radio's On/Off switch. Solder a short jumper across the K100 switch pads. If the K100 switch is used, solder the Red & Black wires to the radio's DC connector at the rear of the unit. (Example NB switch for On/Off)
- * Solder the RF Input to the radio side and the RF Output to the radio Ant Connector - Tune radio for best output.