

PARTS MOUNTING AND WIRING ON THE RF PRINTED CIRCUIT BOARD

SEE FIGURE 12.

As you did with the IF board, inspect this board carefully. Here, too, the two sides are different: A component side which has an outline of the parts printed on it, and a metal foil side with the wiring pattern etched on it. Hold the board so the component side is toward you. Mount parts from the component side in the following order. Check off each step as completed.

- ☒ Mount C-57, a 100 μ fd mica capacitor.
- ☒ Mount R-52, a 1 meg Ω resistor (brown, black, green).
- ☒ Mount C-59, a .01 μ fd (may be marked 10,000 or 10K) disc capacitor.
- ☒ Mount R-4, a 33 Ω resistor (orange, orange, black).
- ☒ Mount C-5, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-9, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-62, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-7, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount R-8, a 47K Ω resistor (yellow, violet, orange).
- ☒ Mount R-9, a 68 Ω resistor (blue, gray, black).
- ☒ Mount C-8, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount R-11, a 2200 Ω resistor (red, red, red).
- ☒ Mount R-10, a 6800 Ω resistor (blue, gray, red).
- ☒ Mount C-20, a 560 μ fd (.00056) disc capacitor.
- ☒ Mount R-53, a 10K Ω resistor (brown, black, orange).
- ☒ Mount R-15, an 820K Ω resistor (gray, red, yellow).
- ☒ Mount R-13, an 82K Ω resistor (gray, red, orange).
- ☒ Mount R-5, a 27K Ω resistor (red, violet, orange).
- ☒ Mount R-14, a 150 Ω resistor (brown, green, brown).
- ☒ Mount C-61, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-21, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-22, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount C-6, a 100 μ fd (.0001) mica capacitor.
- ☒ Mount C-58, the odd-shaped 100 μ fd mica capacitor with the glazed body and both leads coming from the same side.
- ☒ Mount R-7, a 10K Ω 1 Watt resistor (brown, black, orange).
- ☒ Mount C-11, a .01 μ fd (10,000 or 10K) disc capacitor.
- ☒ Mount R-6, a 4700 Ω 2 Watt resistor (yellow, violet, red)
- ☒ Mount C-14, a 2000 μ fd (.002 or 2K) mica capacitor.
- ☒ Mount C-13, a 680 μ fd (.00068) mica capacitor.
- ☒ Mount C-15, a 5000 μ fd (.005 or 5K) mica capacitor.
- ☒ Mount R-12, a 33 Ω resistor (orange, orange, black).
- ☒ Mount V-1, a 7-pin tube socket with a ground clip, as shown.
- ☒ Mount V-2, a 9-pin tube socket with a ground clip, as shown.
- ☒ Mount V-3, a 7-pin tube socket without a ground clip, as shown.

- ☒ Check your work thoroughly. When you are satisfied that all parts are mounted correctly, turn the board over and solder each lead to the foil at the point where the lead comes through the board. Be sure to use enough heat to get a good soldered connection. Cut off the excess leads close to the board. Refer to page 5. Carefully solder all the tube socket pins to the foil pattern. Be sure to solder the center pins.

As shown, insert the following wires from the component side, and solder them on the foil side.

- ☒ Solder one end of a yellow wire to hole X. The other end of the wire will be connected later.
- ☒ Solder one end of a green wire to hole Y. The other end of the wire will be connected later.
- ☒ Solder one end of a green wire to hole Z. The other end will be connected later.
- ☒ From the foil side of the board, mount S-1, the three-wafer printed circuit bandswitch. S-1 will fit only one way. Insert the terminals of S-1 firmly into the matching holes in the printed circuit board so the shoulders of the terminals seat against the board.

The switch must be firmly and evenly attached to the board with no strain on either the switch or the board. Turn the board over so the edge of each switch wafer is flat on your working surface. Gently press down on the board near the outer TWO terminals of the front wafer. Solder these TWO outer terminals (from the component side) as the board is pressed down.

NOTE: Hold the soldering iron tip against the switch terminal and let the solder flow down inside the metal hole to make a good electrical connection between the switch terminal and the foil conductor on the other side of the board.

Press down on the board, and solder the outer two terminals of the center wafer and the rear wafer. After each outer terminal of each wafer is well soldered, solder all the other terminals of each wafer. Be sure the solder flows down into the hole, but do not let it flow onto an adjacent terminal or to nearby parts.

- ☒ Mount C-4, a 1 μ fd stand-up tubular capacitor. Be sure the polarity marking is positioned as shown. Solder and clip both leads.