PARTS MOUNTING ON THE IF PRINTED CIRCUIT BOARD

respective resistors. The following resistors are all ½ watt unless specified place. The colors given in parenthesis are those of the stripes on the cated, and bend the wires on the foil side of the board to hold the parts in give the symbol numbers and values of all the resistors to be mounted on From the top of the IF printed circuit board (the side with the parts identified), mount the parts listed in the following 33 steps. These steps the IF printed circuit board. Insert the wire leads through the holes indi-

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[J]R-23, 2.7 megΩ (red, violet, green)
[J] R-21, 5600Ω (green, blue, red)
[J] R-16, 220ΚΩ (red, red, yellow)
[J] R-17, 2.7 megΩ (red, violet, green)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \sqrt{R}-22, 330\Omega (orange, orange, brown)
                                                                                                                                                                           \mathbf{Q}_{\mathbf{R}}^{\prime}-50, 3.3\Omega (orange, orange, gold)
                                                                                                                                                                                                                                                                    \square_{\ell}^{\prime}R-41, 220K\Omega (red, red, yellow)
                                                                                                                                                                                                                                                                                                                                                                                                          \mathbf{\overline{M}} R-33, 2700\Omega (red, violet, red)
区界-48, 1000 (brown, black, brown)
                                        \square/R-46, 470K\Omega (yellow, violet, yellow)
                                                                                   \square R-42, 1 meg\Omega (brown, black, green)
                                                                                                                                ∇R-43, 1 megΩ (brown, black, green)
                                                                                                                                                                                                                         \square R-40, 220K\Omega (red, red, yellow)
                                                                                                                                                                                                                                                                                                                  \mathbb{Z}^{R-34}, 1 meg\Omega (brown, black, green)
                                                                                                                                                                                                                                                                                                                                                          □/R-35, 1 megΩ (brown, black, green)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ζ/R-31, 47ΚΩ (yellow, violet, orange)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NR-45, 2700\Omega (red, violet, red)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R-26, 47KΩ (yellow, violet, orange)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R-49, 220K\Omega (red, red, yellow)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     _{
m r}R-27, 2700\Omega (red, violet, red)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R-19, 2700Ω (red, violet, red)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R-18, 15000 (brown, green, red)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R-20, 100K\Omega (brown, black, yellow)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R-30, 6800 (blue, gray, brown). Omit if you have S-Meter Kit.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R-3, 100KΩ (brown, black, yellow) 1 watt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R-28, 100 \mathrm{K}\Omega (brown, black, yellow)
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μμία—three .0047 μfd (4700 or 4.7K)—two; and two 330 μμfd disc capacitors. This grouping makes it easier to find the required capacitors as Sort the disc capacitors into the following groups: .01 µfd (may be marked There are a number of disc capacitors, as well as other types, to be mounted on the IF printed circuit board. Several have the same value. needed. Mount the capacitors in the following order: 10,000 or 10K)—seven of this value; .0015 "fd (1500 or 1.5K)—four; 470

C-44, 470 ""fd	\square / \mathcal{C} -37, .01 μ td	[C]C-35, .002 ,.td	1 C-33, .01 µfd	☑(C-32, .01 ,.fd	C-30, .0015 μfd	[]C-24, .01 /efd	豆/C-25, .01 ,fd	C-23, .0015 ,.fd	☐ C-17, .0047 µfd	√ C-27, 470 μμfd	•
	C-45, 01 µfd	[12/C−41, .0015 µfd	© C-42, .01 µfd	□ C-52, 470 μμfd	\(\sum_C-51, .0047 \) \(\mu \text{fd}\)	☑ C-46, .0015 µfd	[]_C-50, 330 μμfd	\square C-60, 25 $\mu\mu$ ld	$[\mathcal{O}]$ C-43, .02 μ fd	∏/ C−48, 3 <u>3</u> 0 μμfd	

CAUTION: Bend L-13 leads carefully to prevent breaking the thin wires.

✓ Mount L-13, the 5 mh RF choke

Solder all of the leads and terminals of the parts just mounted to the metal foil right at the holes in the printed circuit board. Be sure to get soldering, cut off all the leads close to the board. the point to be soldered HOT enough. Refer to page 5 again. After

a color dot on the terminal-end of each transformer that must be in the moderate pressure from the top. position shown in Figure 1. The transformers will "snap" in place with be installed in the correct locations as shown on the circuit board. There is has four terminals. These three transformers are all the same, so it makes no difference which you use as Z-1, Z-2, or Z-3. The IF transformers must Notice that the three IF transformers are in stand-up cans and each

- $\sqrt{}$ Mount the IF transformers, Z-1, Z-2, and Z-3.
- Use a tube carton to lean the board on edge. This prevents the solder over to solder the IF transformer terminals. the transformer. This would happen if the board were turned completely from running down the terminal inside the transformer and shorting out
- Solder each terminal of the three IF transformers to the foil on the printed circuit board. Solder the clips which hold the transformers in
- Install L-15, the BFO coil (in a two-terminal can). This coil can be stalled in only one way. Solder the two terminals of L-15 and the two clips which hold the can to the board.

R-36, 47KΩ (yellow, violet, ora

R-36, 47KΩ (yellow, violet, orange)

 $oxdet \mathbb{R}$ -39, 100K Ω (brown, black, yellow) \square/R -29, 27K Ω (red, violet, orange) LyR-54, 100KΩ (brown, black, yellow) Ω R-47, 82 Ω (gray, red, black)

R-38, $39K\Omega$ (orange, white, orange)