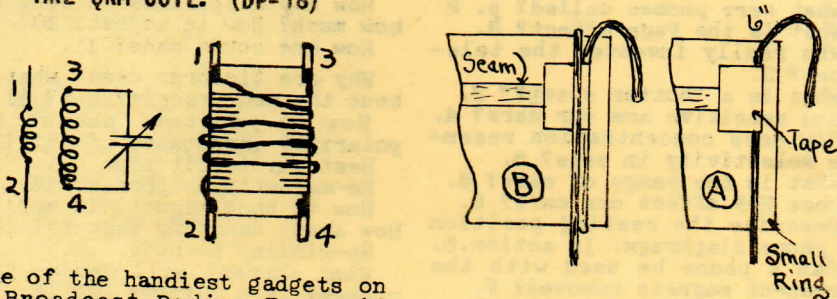


MRL QRM COIL. (DP-18)



One of the handiest gadgets on any Broadcast Radio. To avoid repetition, we are only showing it here. Placed in parallel with a tuning circuit, it boosts and sharpens the signal. In series, it acts as a trap to cut out, or deaden a bothersome station. DP-18 shows several other uses.

A fibre form is better than Celluloid or Bakelite, due to more impedance. Cut a 1" diameter fibre form $1\frac{1}{2}$ " long. Drill four holes for Eyelet lugs as shown. Also, 2 #50 drill holes for tank - or tuning circuit, 1" apart. Drawing is half-size. Mount the four eyelet lugs.

Fill the 1" space with about 110 turns #32 Enameled wire and solder ends to (3-4) lugs. Paint coil with Light Coil Cement and let it dry.

Over this, space-wind 15 turns #24 DCC and solder to (1-2) lugs and cement this coil down. Over this, stick a $1/4$ " wide piece of paper to make (1-2-3-4) on.

QRM Coil may be tuned from the panel with a .00035 var. cond. Or, a 50-500 mmfd. trimmer cond. with a screw-driver adjustment may be used. May be tuned to the interfering station and left on it continuously.

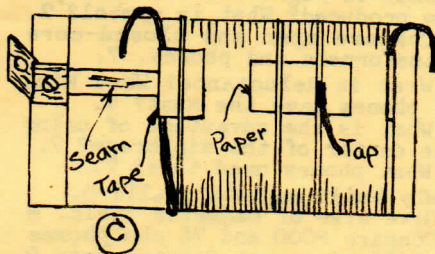
WINDING 2" CRYSTAL COILS. (DP-5.)

Our 2XM celluloid forms are usually specified for most Xtal sets. It has been proven they are best for DX due to low-loss.

However, the winding specifications given here are also applicable to Bakelite, and other plastics, as their properties are very similar.

It is most important you build a coil winder, similar to one shown in HB-2.

Cut 2 pcs. of friction tape 1" long. Then, 6" from end of wire, fold one piece over, as shown in A. Start winding at "hot" end, with the small ring, bringing 2nd turn up close to hold tape, as shown in B.



When making taps (C), slip a $\frac{1}{2}$ " strip of light cardboard under each turn to be tapped. Slip end of paper under turns for a neater job.

After end has been reached, cut wire 6" long for lead. Back off one turn, folding tape over wire as shown. Push tape under next to last turn, and pull tape and wire taut. Secure flap of tape down with cellophane tape. Then cement all edges with Light Coil Cement.

When coils are mounted vertically, use a bracket to the base. If horizontal, hold coil away from panel with 6-32 x $1\frac{1}{4}$ " R.H. machine screw and nuts. It makes shorter leads to switch and also helps to clear condenser, etc.

Good Luck in DX Fishin'....