Pack 91  
Crystal Radio Project  
MARCH 2003  

Instructions  

Step 1 – Coil Winding  

1. Wind coils as indicated.  
2. Holes for each coil start have been made.  
3. Wire ends should be inside the tube and extend 4-5” past top of tube.  
4. You may make holes while winding the coil threading the wire will help the coil lay flat on the tube.  
5. Label wires with colored dots as indicated on drawing.  
6. Provided wire is sufficient for both coils with some left over.  
7. Masking tape may be used to hold wire in place while winding.  

Step 2 – Clips & Labels  

1. Holes for clips have been made including one clip assembled.  
2. Assemble and attach the 3 remaining clips per example.  
3. Apply clip labels as indicated.  
4. Pull ID label for bottom end cap. Insert bottom end cap in tube.  

Step 3 – Solder  

1. Solder each connection as indicated. Use extra wire for Pink and Yellow2 wire sections.  
2. Trim wire as needed.  
3. Use sandpaper at wire tip for a good connection.  
4. Screw grounding block to tuning capacitor before soldering block connections.  
5. Twist wire on connection then solder, a round solder joint is best.  

Step 4 – Assembly and Test  

1. Attach top end cap to tuning capacitor using two screws.  
2. Apply dial label and tuning knob to top end cap. You will need small screwdriver.  
3. Connect ground, antenna and phones at test station.  

YOU ARE DONE!