ECLIPSE RADIO PTY. LTD.
(A DIVISION OF ELECTRONIC INDUSTRIES LTD.)
11-21 STURT STREET, SOUTH MELBOURNE

TECHNICAL BULLETIN

Bulletin BKP-2 **File : Receivers, Portable** **Date : 21/3/47**

SUBJECT:-

INSTRUCTIONS FOR FITTING A COUPLING LOOP AND TERMINALS FOR EXTERNAL ANTENNA AND EARTH TO 5 TUBE PORTABLE RECEIVER MODEL BKP

The parts required for fitting the coupling loop and terminals to the existing loop antenna are contained in a package, which is available as a separate kit. In this kit are the following parts:-

Part Name	Part Number
Complete Kit Consisting of:-	PA405
1-Loading Coil	PT269
1-3/4" x 3/32" RH. Brass Screw-loading coil mounting	1/560-8
1-Nut 3/33" loading coil mounting	14/226-1
1-Washer loading coil mounting	9/99-2
1-2,000 Ohm Carbon Resistor Tol. ±10% ½ watt	PR253
1-Aerial and Earth Socket Assembly	A116/250
2-Screws 1/4" x 1/8" RH. for mounting A116/250	10/560-4
2-Nuts 1/8" for mounting A116/250	3/478-2
2-Washers for mounting A116/250	63/30C-2
2-Phone Tips	11/252
1-Aerial Transfer	29/245
1-Earth Transfer	30/245
1-Loop Wire 9 feet	WM165

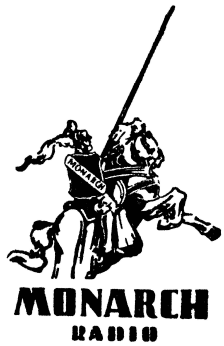
Method of Assembly

1. Remove set from cabinet in accordance with instructions in Bulletin BKP-1.

2. Take loop off receiver, by removing the two screws which hold the loop to the mounting pillars.

3. Using the diagram as a guide, assemble the loading coil, and antenna and earth socket assembly to the loop former.

4. On the outside of the loop antenna winding, wind three turns in the same manner, and in the same direction as the existing loop winding, commencing at point "A" and finishing at point "B".



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Method of Assembly

5. Solder the inside turn (start) of the three turn coupling loop to the rear of the "Earth" socket at point "C" and the outside turn (finish) to the loading coil at point "D".

6. Connect the other side of the loading coil (point "E") to the rear of the antennas socket of (point "F").

7. The 2,000 ohm resistor is soldered across the rear of the antenna and earth sockets. At points "F" and "C".

8. Solder to the rear of the earth socket (point "C") a six inch piece of loop wire (lead "G").

9. Refit loop antenna to mounting pillars, and connect lead "G" to the chassis by soldering to the point to which the 1R5 tube shield is earthed.

10. Fix transfers to loop antenna, just above the appropriate sockets. It will be found, when the receiver is refitted to the cabinet, that the antenna and earth sockets, and the loop trimmer condenser, are accessible through a hole in the rear of the cabinet. This hole is normally covered with a rubber insert.

11. Connect a signal generator through a 200 MFD. condenser to the antenna and earth sockets. Adjust the signal generator to 1,400 Kc/s, turn the receiver to the signal, and adjust the loop antenna trimmer for maximum output.

NOTE: The length of antenna required is 25 to 30 feet. An earth connection to the receiver is required to achieve maximum efficiency from the coupling circuit.

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