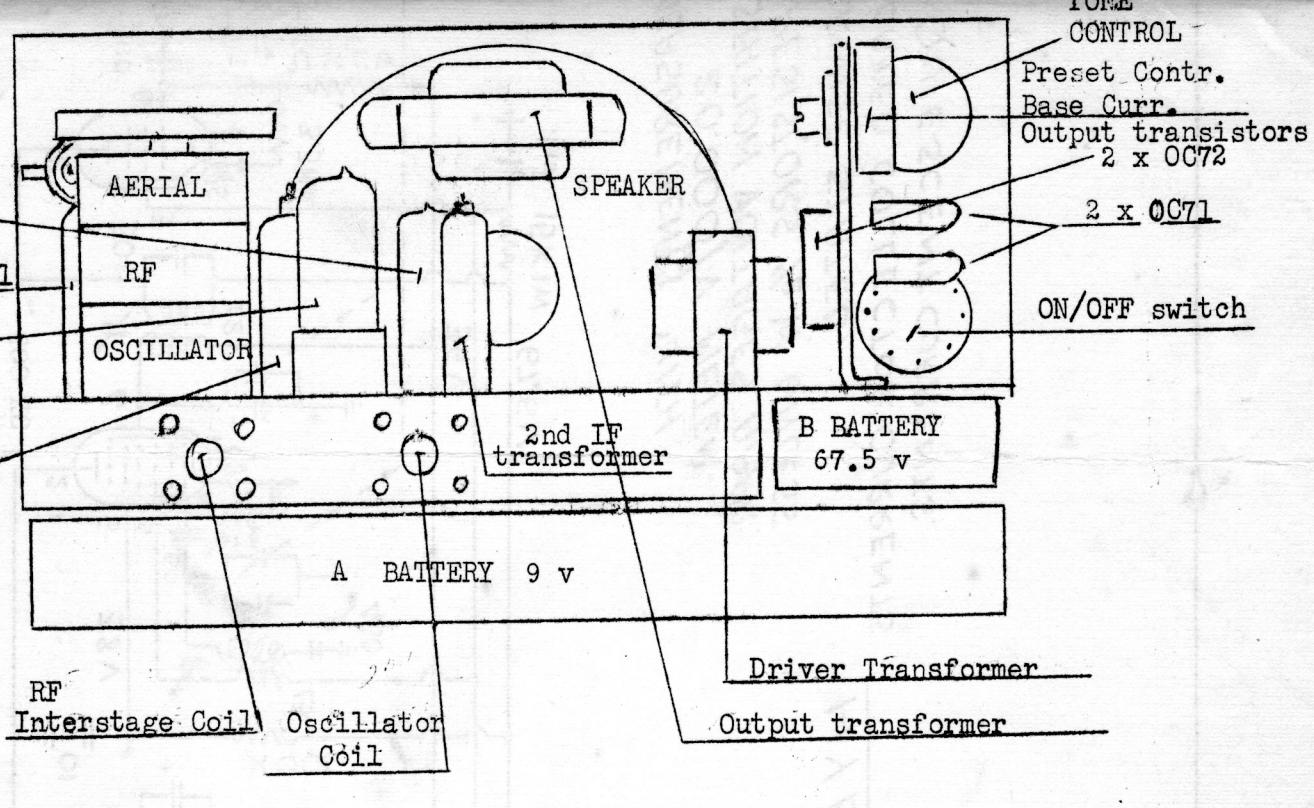


3497  
Hypnia  
(spore)



BACK VIEW

ALIGNMENT INSTRUCTIONS

1. Remove back half of carrying case from chassis by undoing handle screws and screws at back. Leave loop aerial connected to set.
2. Connect a signal generator to the coupling link of the loop aerial. Insert a milliamp-meter (range 10 milliamps) in the centre-tap of the primary of the output transformer.
3. Short oscillator gang condenser to ground.
4. Adjust signal generator to the IF frequency 462 Kc/s. Turn volume control to the off position. Switch set on. Adjust potentiometer, connect it to the centre-tap of the secondary of the driver transformer, until meter reads between 2 and 3 milliamps.
5. Turn volume control full on. Adjust output of signal generator, until a meter indication is obtained.
6. Adjust the iron cores of the IF transformers starting from the diode side working towards the front end of the receiver. Reduce output of signal generator to a minimum while aligning receiver. Repeat these adjustments until no further improvement of meter readings results.
7. Remove oscillator gang condenser short. Adjust signal generator to six hundred Kc/s. Tune dial to "6" on dial scale. Adjust slug of L3 for maximum sensitivity.
8. Tune dial to "14". Switch signal generator to 1400 Kc/s and adjust trimmer across the oscillator gang section for maximum reading on meter.
9. Repeat process mentioned under 7 and 8 until "6" and "14" on dial scale fall in line.
10. Follow same procedure for the RF interstage coil L2 and aerial coil L1.
11. Seal slugs and trimmers with a suitable polystyrene cement.
12. Put chassis back into cabinet and make overall sensitivity check for weak stations.

The resistor in the emitter of the first OC71 stage which is at present 1.5K is to be increased in value 4.7K. In addition a resistor of 12~~1~~ is to be placed between the OC72 emitters (which are tied together) and position ~~VE~~ of the battery.

After this alteration it will be necessary to adjust the collector current in the OC72 output stage to 3 MA on no signal.