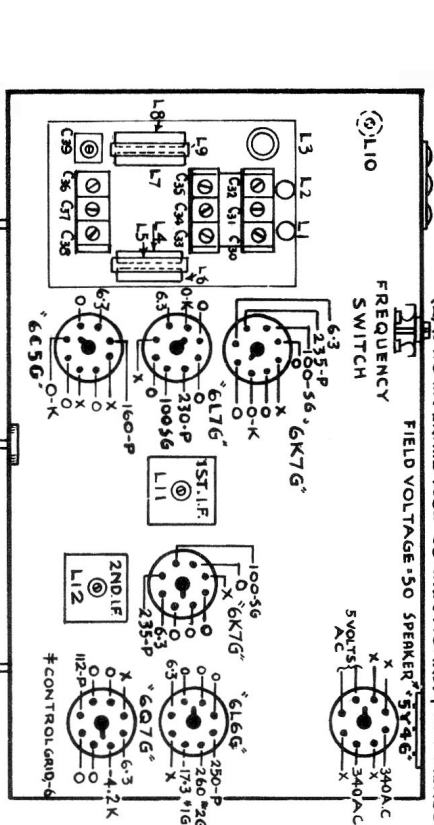


NOTE: RANGE SWITCH SHOWN IN BROADCAST POSITION.

NOTE (1) ALL VOLTAGES MEASURED TO CHASSIS WITH A 1000 OHM PER VOLT METER AT 117 V. LINE. (2) X NO INTERNAL TUBE CONNECTION. (3) † NOT MEASURABLE AT GRID OF TUBE.

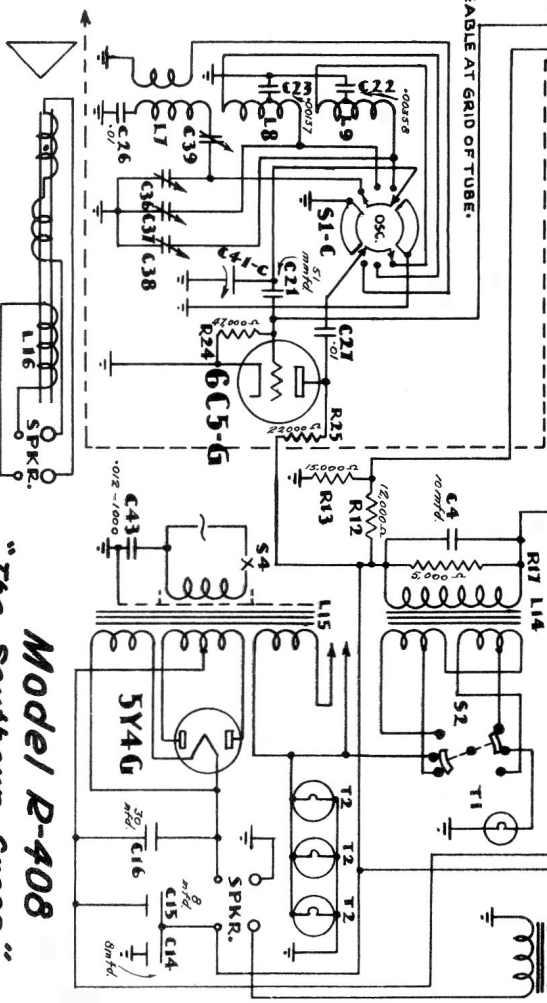


FRONT-BOTTOM VIEW

With gang condenser in full mesh set the pointer to the last division on the dial scale at the low frequency end.

A high grade modulated oscillator covering the frequencies 465 K.C. to 16 M.C. and an output meter are required. Connect the ground lead of the oscillator to the receiver chassis.

(1) Connect the hot lead of the oscillator through a .05 M.F.D. condenser to the 6L7G control grid cap and apply a 465 K.C. signal. Set the range switch in the broadcast band. Tune the gang condenser so that it does not interfere with the signal and retain the volume control as far as possible and yet retain a readable indication on the output meter. This volume control adjustment must be made throughout the whole align-



"The Southern Cross"

Model R-408 1937-38

In signal and then after tuning set slightly to give maximum output align the R.F. and antenna shunt trimmers C35 and C32 for maximum output.

(4) Then apply a 600 K.C. signal to the antenna post and tune it in for maximum and adjust series pad C39 for maximum output while rocking the gang carefully back and forth. If an appreciable adjustment of C39 was necessary operation 3 should be repeated.

(5) Turn the range switch to the Police position and change the dummy antenna to a 400 ohm carbon resistor. Set the dial pointer at 5 M.C. and apply a 5 M.C. signal. Then adjust oscillator shunt trimmer C37 in the signal. Two peaks may be secured but the proper one is that with the trimmer screwed slightly.

farthest out. Then tune set slightly to bring output to maximum and adjust R.F. and antenna shunt trimmers C34 and C31 for maximum output. Rocking the gang slightly will improve this adjustment.

(6) Turn the range switch to the short wave position (clockwise) and set the dial pointer at 16 M.C. Apply a 16 M.C. signal through the 400 ohm dummy and adjust oscillator shunt trimmer C38 to bring in the signal, choosing the peak farthest out on the trimmer as above. Then tune the signal to maximum with the gang and adjust R.F. and antenna shunt trimmers C33 and C30 for maximum output while rocking the gang slightly.