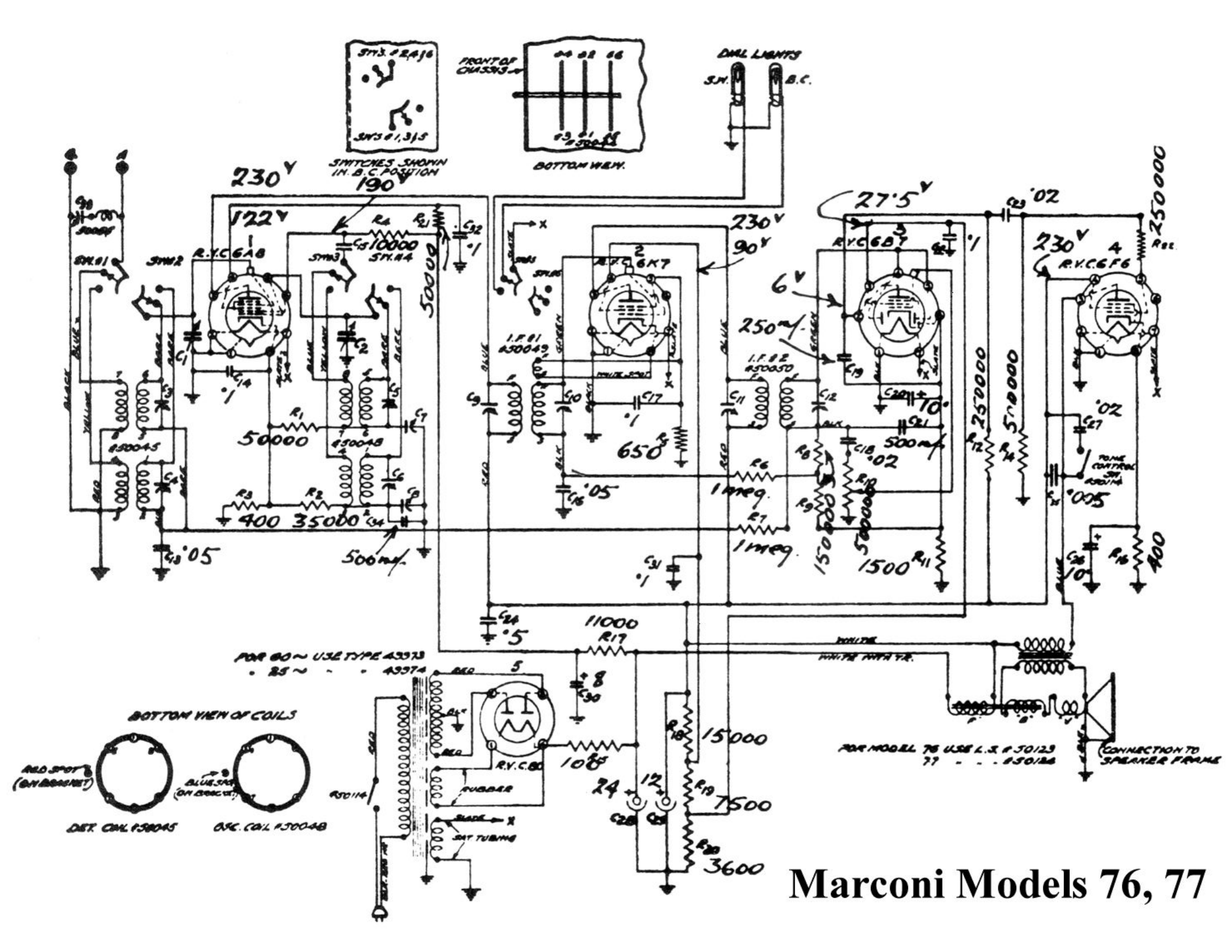
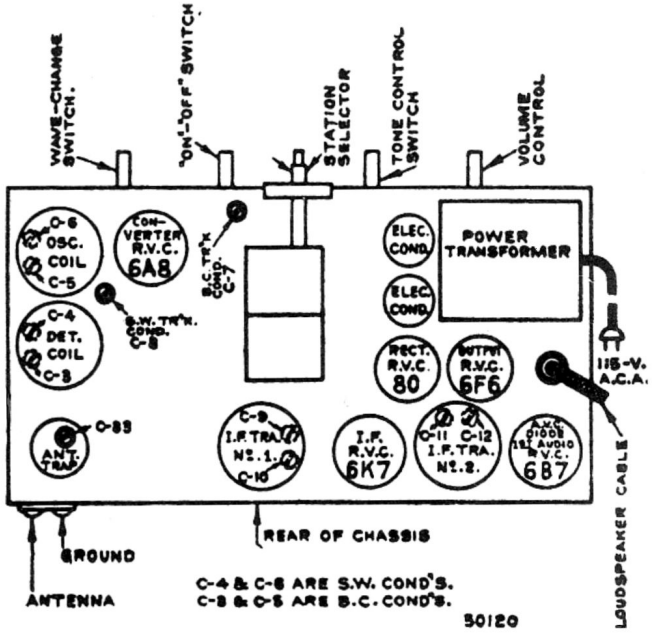


Marconi Models 76, 77



VOLTAGE READINGS

SOCKET PINS TO CHASSIS.

CAP	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
0	0	230	122	−16	190	0	4
0	0	230	90	4.5	—	0	4.5
0	6	27.5	0	0	1.5	0	—
—	0	220	230	0	—	0	13.5
—	330 A.C.	330 A.C.	320	—	—	—	—

GENERAL DATA:

Circuit:—Dual wave, five-tube superheterodyne with full automatic volume control and antenna trap circuit.

Frequency Range:—Broadcast Band, 528 to 1725 K.C. Short Wave Band, 5650 to 18,000 K.C.

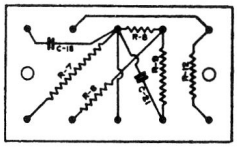
Intermediate Frequency:—462.5 K.C.

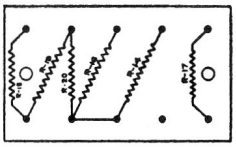
Power Output:—Undistorted, 2.3 Watts. Maximum, 4.5 Watts.

Power Rating:—115 Volts A.C., 60 cycle—56 Watts, 25 cycle—61 Watts.

Voice Coil Impedance:—Model 76—4.10 Ohms; Model 77—2.15 Ohms.

Antenna Trap Circuit:—The possibility of interference from stations operating at frequencies around 462 K.C., has been prevented by the use of a tuned trap in the antenna circuit. This trap circuit normally should be tuned to 462.5 K.C., but if interference is experienced from some particular long wave station, it may be tuned to the frequency of the interference signal.





Resistor Panels

Marconi Models 76, 77 Alignment Instructions

ALIGNMENT:

I.F. Trimmers:—Set gang condenser at minimum and supply a 462.5 K.C. signal to grid clip of 6A8 through a .1 Mf condenser. Adjust, in order, C12, C11, C10 and C9. See that the input is always low enough to avoid causing the A.V.C. to operate.

Broadcast Trimmers:—Connect the Test Oscillator to the A and G terminals through a standard dummy antenna. If necessary, a 200 Mmf series condenser may be used in place of the dummy antenna.

Set gang condenser at minimum and supply a 1725 K.C. signal. Adjust oscillator trimmer C5 to tune in this signal.

Supply a 1600 K.C. signal and tune the receiver to pick up this signal and adjust detector trimmer C3 for maximum output. The dial pointer should be set to indicate 1600 K.C. after the above adjustments have been completed.

Supply a 580 K.C. signal and track C7 for maximum output while rocking the tuning control back and forth at this frequency.

Check alignment at 1600 K.C. and adjust C5 if necessary.

Short Wave Band:—Switch to short wave and rotate tuning control until pointer is at 1510 K.C. on the Broadcast scale.

Supply a 16 M.C. signal through a 400 Ohm resistor to A and G terminals. Adjust C6 and C4 for maximum output. If two settings of C6 are found which give approximately equal output, the one with the trimmer further out is correct.

Rotate tuning control until pointer is at 570 K.C. (on Broadcast scale) and supply a 6 M.C. signal. Adjust tracking condenser C8 while rocking the tuning control to find the setting giving maximum output.

Check alignment at 16 M.C. and adjust C6 if necessary.

Wave Trap:—With gang condenser at maximum capacity, supply a strong 462.5 K.C. signal to A and G and adjust C33 for **minimum** output.