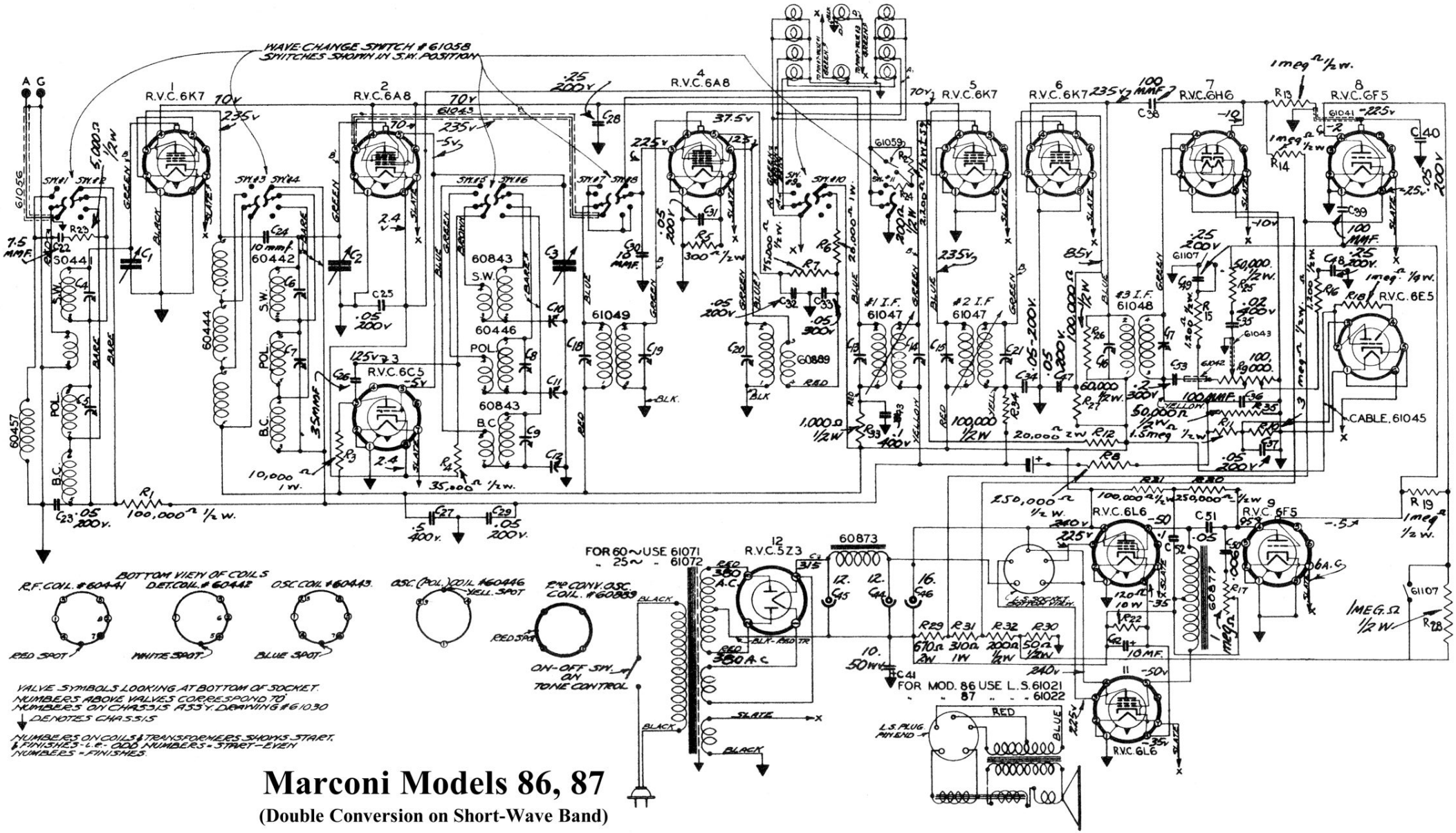
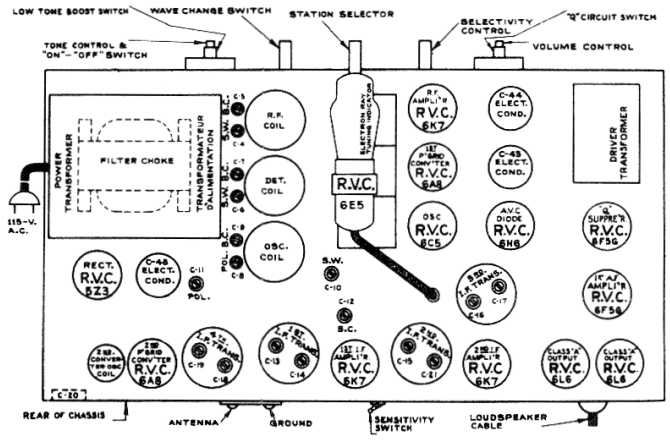


Marconi Models 86, 87

(Double Conversion on Short-Wave Band)



ALIGNMENT OF INTERMEDIATE FREQUENCY TRANSFORMERS

(1) Set gang capacitor at minimum capacity, selectivity control in the sharp selectivity position, i.e., extreme left and supply a modulated 462.5 KC signal from a test oscillator to the control grid cap of the 6K7, 2nd I.F. tube.

(2) Adjust the diode transformer trimmers C17 and C16 for maximum gain.

(3) Apply the 462.5 KC signal to the control grid cap of the 6K7 1st I.F. amplifier tube.

(4) Adjust C21 and C15 and touch up C17 and C16.

(5) Apply the 462.5 KC signal to the control grid cap of the 6A8 1st converter tube.

(6) Adjust C14 and C13 and touch up C17, C16, C21 and C15.

ALIGNMENT OF BROADCAST BAND

(1) Set gang capacitor at maximum capacity.

(2) Set indicator line to correspond with the last index mark on the right hand side of the dial scale.

(3) Rotate tuning knob until indicator line is at 1500 KC.

(4) Supply a 1500 KC signal from a test oscillator to the aerial and ground leads.

(5) Adjust broadcast oscillator trimmer C9 to tune in the 1500 KC signal.

(6) Adjust R.F. trimmers C7 and C5 for maximum output.

(7) Shift test oscillator to 580 KC.

(8) Rotate the tuning capacitor until the 580 KC signal is reached.

(9) Adjust broadcast oscillator tracking capacitor C12 while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest reading of the output meter is obtained.

(10) Recheck at 1500 KC.

Marconi Models 86 & 87 Alignment Instructions

ALIGNMENT OF POLICE BAND

(1) Turn wavechange switch to police band - centre position.

(2) Rotate tuning knob until indicator is at 4800 KC marking on dial.

(3) Supply a 4800 KC signal from test oscillator to the aerial and ground leads.

(4) Adjust police band oscillator trimmer C8 while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest reading of the output meter is obtained.

(5) Shift test oscillator to 1720 KC.

(6) Rotate tuning capacitor until 1720 KC signal is reached.

(7) Adjust police band oscillator tracking capacitors C11 while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest reading of the output meter is obtained.

ALIGNMENT OF SHORT WAVE BAND

(1) Switch receiver to short wave band - extreme left.

(2) Set gang capacitor at minimum capacity.

(3) Supply a 1620 KC signal from a test oscillator to the control grid cap of the 6A8, 2nd converter tube.

(4) Adjust C20 to tune in the 1620 KC signal.

(5) Remove test oscillator leads from 6A8, 2nd converter tube and apply the 1620 KC signal to the control grid cap of the 6A8 1st converter tube.

(6) Adjust C19 and C18 for maximum output.

(7) Rotate tuning knob until indicator is at 16 MC marking on dial.

(8) Supply a 16 MC signal from test oscillator to aerial and ground leads.

(9) Adjust short wave RF trimmers C6 and C4 for maximum output.

(10) Shift test oscillator to 5600 KC.

(11) Rotate tuning capacitor until 5600 KC signal is reached.

(12) Adjust short wave oscillator tracking capacitor C10, while rocking the gang capacitor to and fro past the signal until the combination of adjustments giving the greatest reading of the output meter is obtained.

(13) Recheck 16 MC alignment.