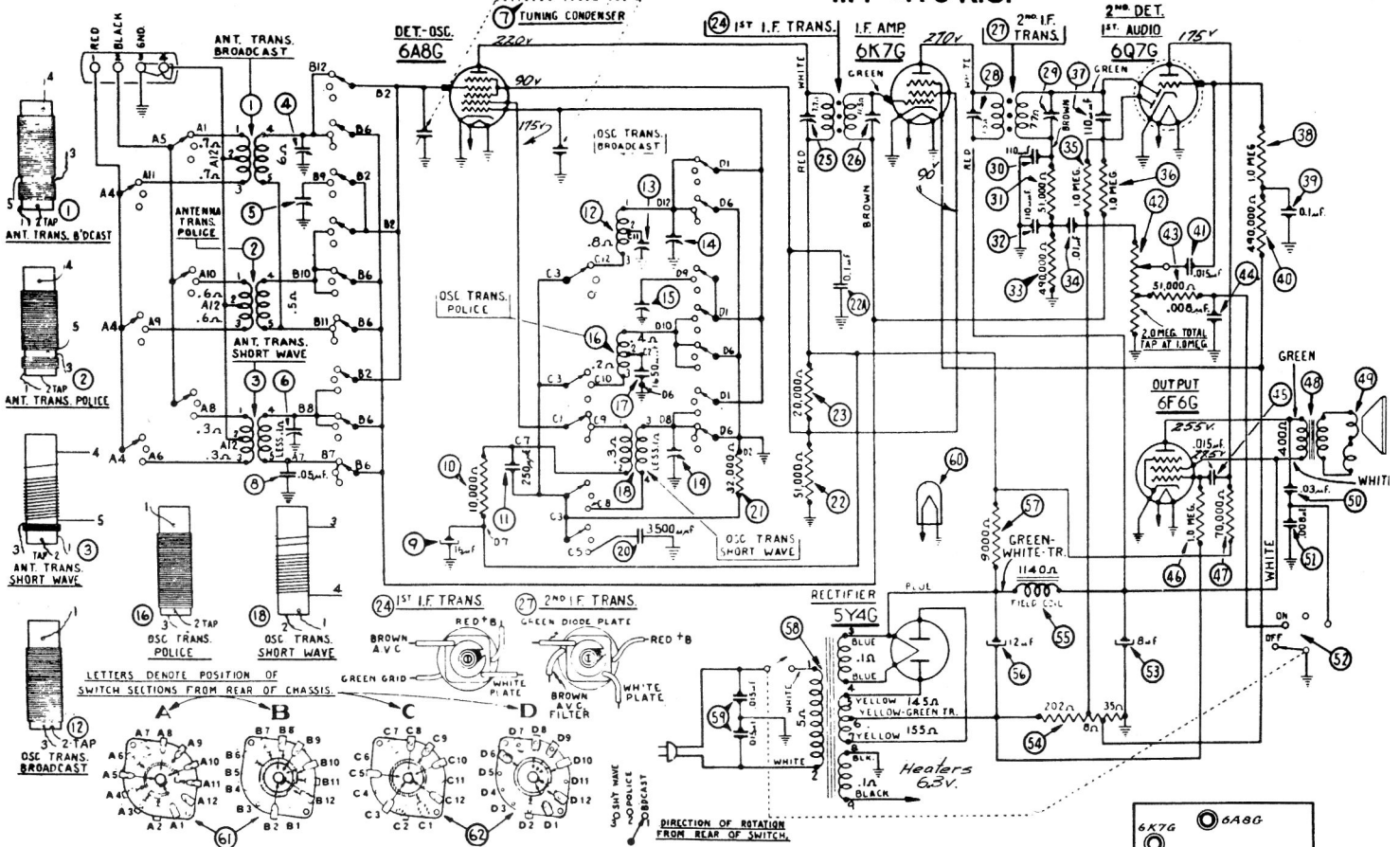


I.F.=470 K.C.



INTERMEDIATE FREQUENCY CIRCUIT

Frequency 470 K.C.

- 1 Connect the 088 signal generator output lead through a .1 mfd. condenser to the control grid of the 6A8G and the ground connection of output lead to the chassis.
- 2 The tuning range switch is set in position No. 1 (Broadcast). Rotate the tuning condenser of receiver to the maximum capacity position (counter-clockwise), and adjust the signal generator for 470 K.C.
- 3 Adjust compensators (29) 2nd I.F. Sec., (28) 2nd I.F. Pri., (26) 1st I.F. Sec. and (25) 1st I.F. Pri. for maximum reading on output meter.

RADIO FREQUENCY CIRCUIT

Tuning Range—7.3 to 22.0 M.C.

- 1 Remove the signal generator output lead from grid of 6A8G tube and connect it through a 0.1 mf. condenser to terminal No. 1 on aerial input panel, rear of chassis. Connect generator ground lead to chassis. Terminals 2 and 3 of aerial input panel must be connected with connector link provided on the panel.
- 2 Set tuning range switch in position No. 3. Turn signal generator and receiver dial to 18.0 M.C. and adjust compensators (19) osc., and (6) ant. for maximum output.
The adjustment of the antenna compensator on the high frequency range causes a slight detuning of the oscillator circuit. In order to overcome this detuning effect, connect a variable condenser of approximately 350 mmf., having a good vernier drive, across the oscillator section of the tuning condenser. Leaving the signal generator and receiver dials at 18.0 M.C., tune the added condenser so that the second harmonic of the receiver oscillator will beat against the signal from the 088 signal generator. The antenna compensator (6) should then be adjusted to give maximum output. Now remove the external condenser and turn compensator (19) to maximum capacity (clockwise) then without moving signal generator or receiver tuning condenser, back off compensator (19) (counter-clockwise) until a second peak is reached on the output meter.
Note:—The first peak is caused by tuning to the image signal and must be neglected.

MODEL 37-3610

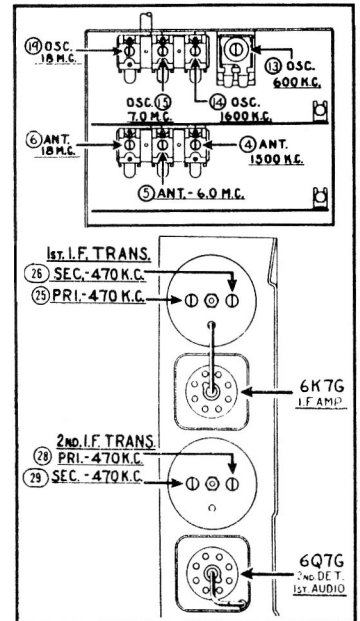
1936-37

Tuning Range: 2.3 to 7.4 Megacycles.

- 1 Turn range switch to position No. 2 (Police). Rotate signal generator and receiver dials to 7.0 M.C. Then adjust compensator (15) for maximum output. Now turn signal generator and receiver dials to 6.0 M.C. and adjust compensator (5) for maximum reading on output meter.

Tuning Range: 530 to 1720 Kilocycles.

- 1 Set range switch in position No. 1 (standard broadcast). The 088 signal indicator is set at 800 K.C. and the receiver dial at 1600 K.C.
(a) In adjusting the receiver at 1600 K.C., the second harmonic of 800 K.C., to which the signal generator is tuned, is used.
Now adjust compensator (14) osc., (4) ant. for maximum output.
- 2 The low frequency end of the band is now tuned by turning signal generator and receiver dials to 600 K.C. and adjust compensator (13) for maximum output. When compensator (13) osc. series is being adjusted, the tuning condenser must be rolled for maximum output. This is accomplished as follows: First tune compensator (13) for maximum output. Then vary the tuning condenser for maximum output about 600 K.C. Now retune compensator (13), and again vary the tuning condenser back and forth at 600 K.C. for maximum output. This operation of first tuning the compensator, then the tuning condenser is continued until maximum output is obtained at the 600 K.C. frequency.
- 3 After the low frequency (600 K.C.) end of range 1 is adjusted, the 1600 K.C. end is re-adjusted, as given in Paragraph 1 above, to correct any variation that the low frequency series compensator may have caused in the alignment of the high frequency end.
- 4 Now turn signal generator and receiver dial to 1500 K.C. and re-adjust compensator (4) for maximum output.



DATA SHEET

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