

MODEL 566

1st I.F. Coil

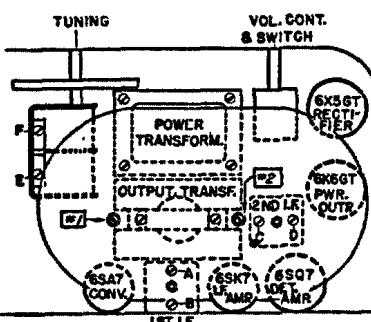
primary . . . 14.5 ohms
secondary . . . 14.5 ohms

2nd I.F. Coil

primary . . . 14.5 ohms
secondary . . . 14.5 ohms

Oscillator Cell

start to finish . . . 8 ohms
start to tap . . . 7 ohms



TO ADJUST IF'S: (1) LOSEN SCREW #1.
(2) REMOVE SCREW #2.
(3) SWING LOOP TOWARD VOL. CONTROL.

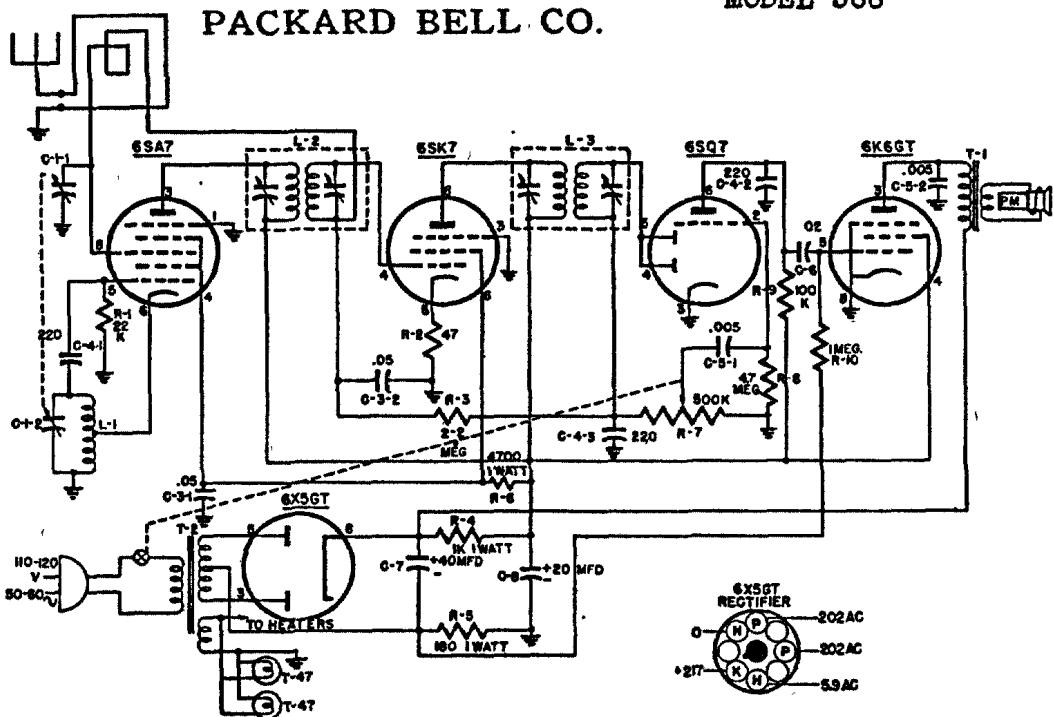


Fig. 1 — Trimmer Location

Alignment Procedure consists of the four steps outlined in the Alignment Procedure Chart.

Connect the test oscillator leads to the mixer grid and ground in series with a .01 Mfd. capacitor (dummy load) for step No. 1, I.F. Alignment. The receiver loop must be shifted in order to reach trimmers A, B, C, and D. (see Fig. 1). Return the loop to its original position before proceeding with the balance of the alignment.

Upon completion of the I.F. Alignment, the variable condenser should be "Rocked" to assure that the I.F.s have not been aligned to the image frequency.

The procedure outlined in steps 2 to 4 utilizes a standard test loop*. Connect the test oscillator leads across this loop and place it in a vertical position about two feet from the receiver loop.

*NOTE: Hazeltine Test Loop No. 1150.

ALIGNMENT CHART

STEP	CONNECT TEST OSC. TO	TEST OSC. SETTING	POINTER SETTING	ADJUST FOR MAXIMUM OUTPUT
1	Mixer grid & Grd. .01 Mfd. Dummy Load	455 KC	550 KC	Trimmers A, B, C & D
2	Standard Test Loop*	1740 KC	1740 KC	Trimmer F to 1750 KC
3	Standard Test Loop*	1500 KC	1500 KC	Trimmer E
4	Standard Test Loop*	600 KC	600 KC	Loop

*REMARKS: Hazeltine Test Loop No. 1150.

All D.C. voltages measured with a vacuum tube voltmeter from socket contacts to chassis. A.C. voltages measured with a 1000 ohm per Volt A.C. meter from socket contacts to chassis. Volume control fully advanced. No signal. 117 A.C. line voltage. All voltages shown are positive D.C. unless otherwise noted.

OSCILLATOR GRID VOLTAGES

At 117 volt A.C. line voltage.

1750 KC . . . 20.0 volts A.C.*
1330 KC . . . 19.0 volts A.C.*
750 KC . . . 17.5 volts A.C.*
550 KC . . . 17.0 volts A.C.*

*Measurements made with A.C.—V.T.V.M., input loading above 10 megohms.

Electrical Rating

Line Voltage . . . 110-120 volts, 50-60 cycle A.C.
Power Consumption . . . 33 watts

Tuning Frequency Range
540 to 1740 kc

Intermediate Frequency
455 kc

Electrical Power Output
Maximum . . . 2.8 watts

Loudspeaker
Type . . . Permanent Magnet
Outside Cone Diameter . . . 5"
Voice Coil Impedance . . . 3.2 ohms at 400 cycles
Magnet Rating . . . 1.0 oz. Alnico No. 5

STAGE GAIN MEASUREMENTS

Dummy Antenna . . . 200 mmf Standard Output . . . 50 mw

Volume Control . . . Maximum

Converter grid to 1st I.F. grid . . . 63 X at 1000 KC

Converter grid to 1st I.F. grid . . . 72 X at 455 KC

1st I.F. grid to 2nd detector . . . 75 X at 455 KC

Overall audio gain . . . 356 X at .5 watts 400 cycles

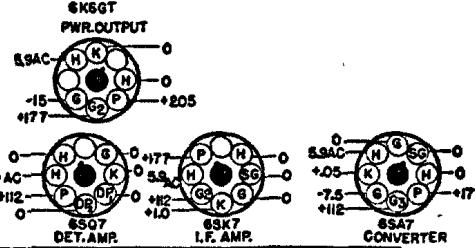


Fig. 2 — Socket Voltages