

## Howard Radio Co.

**Model:** 306APC

**Chassis:**

**Year:** Pre June 1940

**Power:**

**Circuit:**

**IF:**

**Tubes:**

**Bands:**

### Resources

**Riders Volume 11 - HOWARD 11-7**

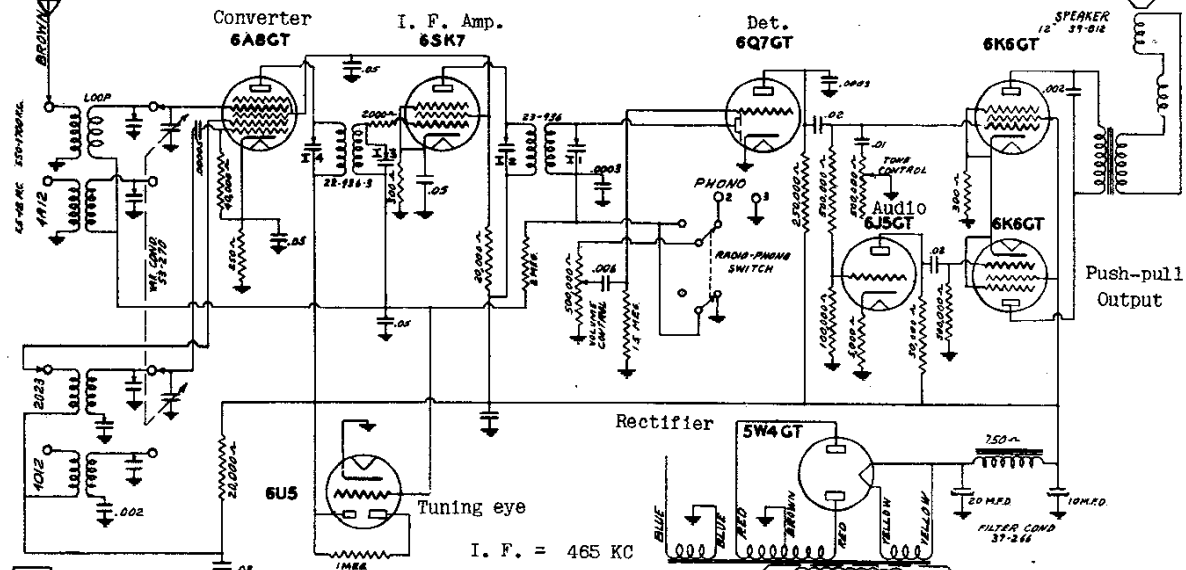
**Riders Volume 11 - HOWARD 11-14**



MODELS 308APC, 308C, 308TT

HOWARD RADIO CO.

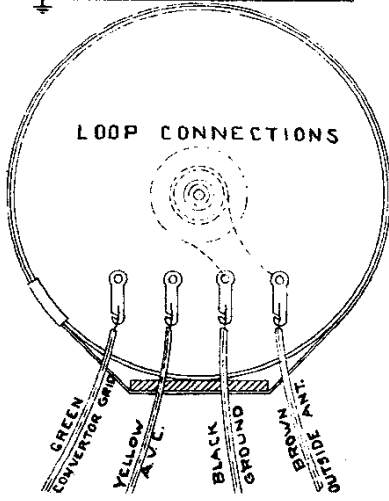
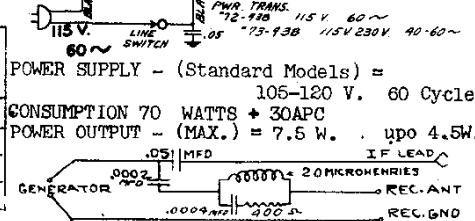
Schematic, Voltage Alignment, Trimmers



ALIGNMENT PROCEDURE

Wave-Band Switch Position	Position of Dial Pointer	Generator Frequency	Generator Connection	See Note	Trimmers Adjusted (In order shown)	Trimmer Function
BC	Min. Cap.	465 KC	6A8 Grid	A, E	I <sub>1</sub> I <sub>2</sub> I <sub>3</sub> I <sub>4</sub>	IF
SW	16 MC	16 MC	Brown lead	B, D	O <sub>5</sub> A <sub>6</sub>	Osc. Ant.
BC	1400 KC	1400 KC	Brown lead		O <sub>7</sub> A <sub>8</sub>	Osc. Ant.
BC	600 KC	600 KC	Brown lead	C	P <sub>9</sub>	Osc. Pad.

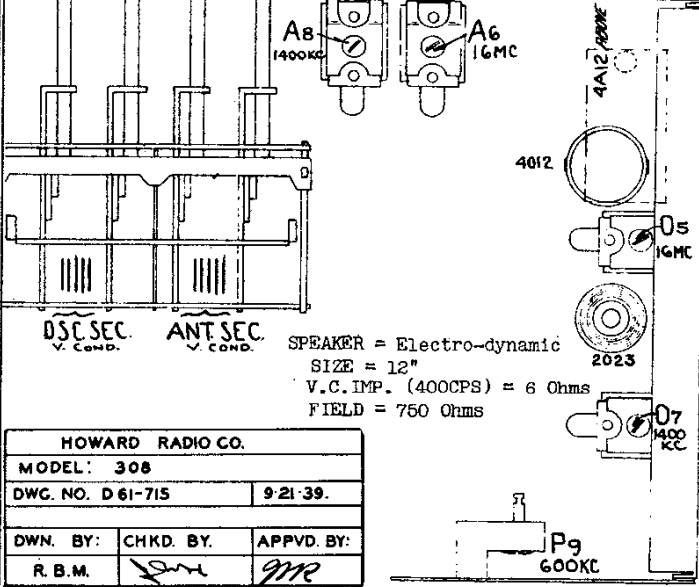
- A- Each step of the alignment should be repeated in the original order for greater accuracy. Keep output from Signal Generator low. The I.F. trimmers are reached through the two holes on the top of each I.F. can.
- B- When aligning the short wave bands, do not adjust to the IMAGE frequency. For example, if the adjustment is correctly made at 21 MC, then a weaker image will be heard at 21,000 KC less 930 KC, or about 20,070 KC on the dial.
- C- When adjusting this pad, move the tuning hand back and forth and adjust padder until the peak of greatest intensity is obtained.
- D- See that the tuning band is set exactly on the last line above 540 when the condenser is at maximum capacity.
- E- The following dummy antenna circuit is recommended, since it is adaptable for any frequency range. The grid cap should remain in place during alignment.



SOCKET VOLTAGE READINGS

Voltage taken from ground with line voltage at - 117 AC  
 High voltage reading off rectifier = 315 V.  
 Drop across speaker field = 75 V.  
 Voltage taken with 1,000 Ohm per volt meter -

TUBE	FUNCTION	GATE ODE.	SCR. GRID	PLATE
6A8	Mixer	4	105	235
6SK7	IF	5	105	235
6Q7	Det.	x	x	70
6E5	Inverter	7	x	150
6K6	Output	18	240	230
6K6	"	18	240	230



HOWARD RADIO CO.  
 MODEL: 308  
 DWG. NO. D61-715 9-21-39.  
 DWN. BY: R.B.M. CHKD. BY: [Signature] APPVD. BY: [Signature]