

Howard Radio Co.

Model: 440

Chassis:

Year: Pre August 1939

Power:

Circuit:

IF:

Tubes:

Bands:

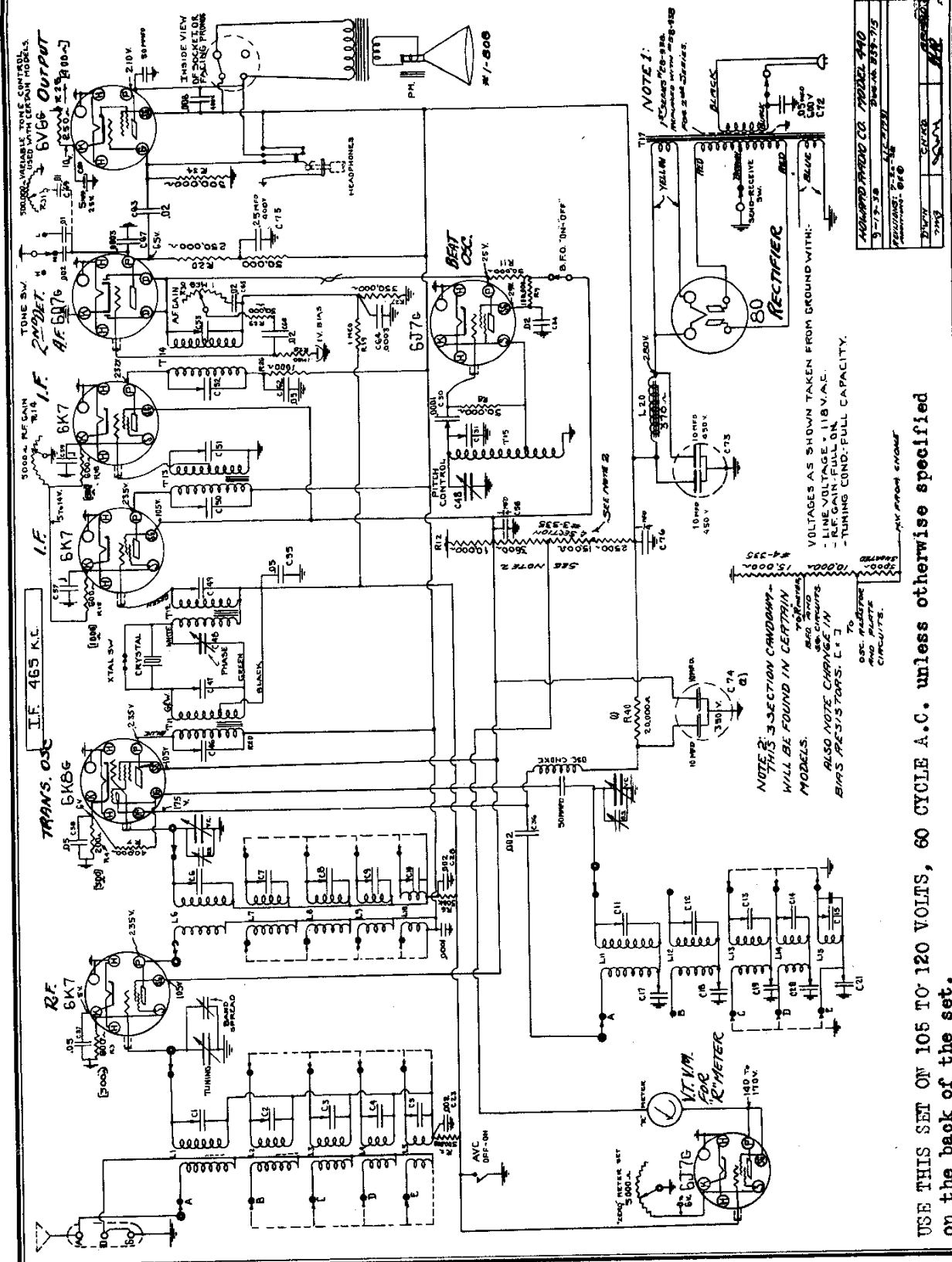
Resources

[Riders Volume 10 - HOWARD 10-24](#)

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HOWARD RADIO CO.

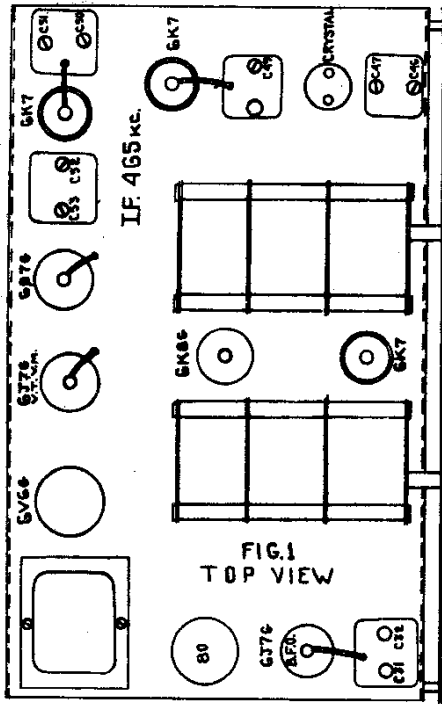


HOWARD RADIO CO. MODEL 440
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USE THIS SET ON 105 TO 120 VOLTS, 60 CYCLE A.C. unless otherwise specified on the back of the set.

MODEL 440, Series 1, 2
 Socket, Trimmers
 Alignment

HOWARD RADIO CO.



NOTE 1: When aligning the I.F. channel, a condenser of .05 MFD may be used in series with the generator lead.
 NOTE 2: When aligning the broadcast band, a 250 MFD condenser may be used in series with the signal generator.
 NOTE 3: When aligning the short wave bands, a 400 ohm resistor may be used in series with the signal generator.

POSITION OF VARIABLE BAND SW.	GENERATOR FREQUENCY	GENERATOR CONNECTION	TRIMMER LOCATION	TRIMMER ADJUSTMENTS IN ORDER	TRIMMER FUNCTION	APPROX. MICROVOLTS
Closed SW.	435 KC	617 Grid	See Fig. 1	C53, 52, 51, 50, 49, 47, 46	I.F.	15
7A Band	36 MC	A-D Ant. Term.	See Fig. 2	C15, 10, 5	Osc. Trans. Ant.	3
16 MC "B"	16 MC	A-D Ant. Term.	See Fig. 2	C21	Padder	3
15 MC "D"	15 MC	A-D Ant. Term.	See Fig. 2	C14, 9, 4	Osc. Trans. Ant.	1
7 MC "D"	7 MC	A-D-G Ant. Term.	See Fig. 2	C15, 8, 3	Padder	1
6 MC "C"	6 MC	A-D-G Ant. Term.	See Fig. 2	C19	Padder	1
3 MC "C"	3 MC	A-D-G Ant. Term.	See Fig. 2	C18, 7, 2	Osc. Trans. Ant.	1
2.6 MC "B"	2.6 MC	A-D-G Ant. Term.	See Fig. 2	C18	Padder	1
1.3 MC "B"	1.3 MC	A-D-G Ant. Term.	See Fig. 2	C11, 6, 1	Osc. Trans. Ant.	1
1.2 MC "A"	1200 KC	A-D-G Ant. Term.	See Fig. 2	C17	Padder	1
.6 MC "A"	600 KC	A-D-G Ant. Term.	See Fig. 2			1

NOTE 4: When using a CRYSTAL, set PHASING CONTROL to almost minimum capacity. See special alignment instructions for Crystal MODEL 458

ALIGNMENT PROCEDURE

- PRELIMINARY: Output meter connection - 4000 ohm or more copper oxide meter across 5 ohm terminals. Shunt with speaker.
- Output meter reading to indicate .5 watt 1.575 V.
- Average sensitivity in microvolts for .5 watt output See chart below
- Generator ground lead connection Direct to chassis
- A.V.C. Switch On
- Band spread dial set at 100 Min. Capacity
- Generator modulation 30%, 400 cycles
- Position of volume control A.F. gain Position of volume control R.F. gain . Pull On

