General Electric Co.

	Model: GD60	Chassis:	Year: Pre August 1939
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		

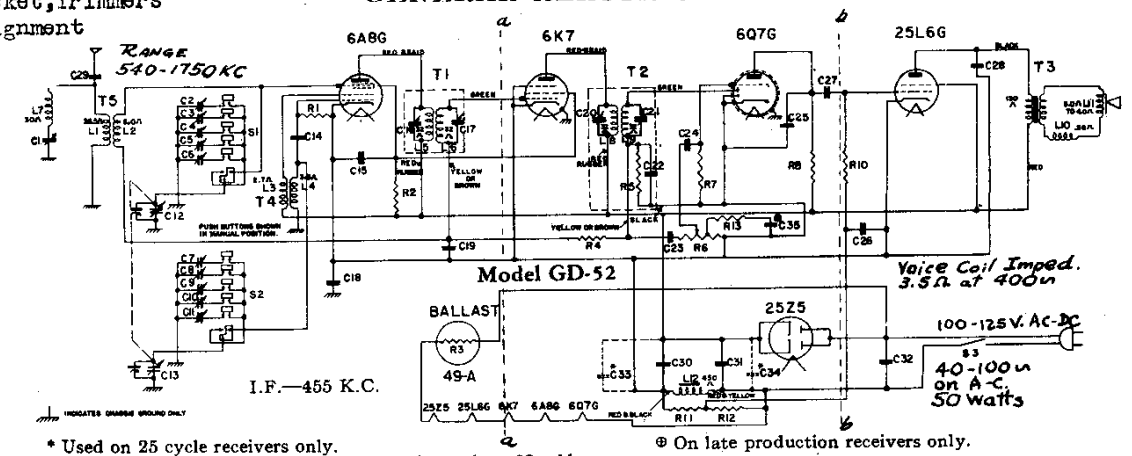
Resources

Riders Volume 10 - GE 10-3

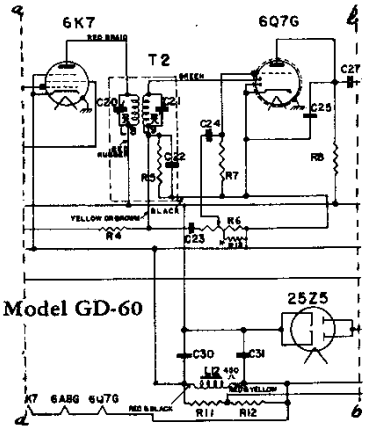
Schematics, Voltage
Socket, Trimmers
Alignment

GENERAL ELECTRIC CO.

MODEL GD52
MODEL GD60



* Used on 25 cycle receivers only.
† On early production receivers C-28 was changed to .03 mfd. capacitor.
⊕ On late production receivers only.



* Used on early production receivers only. For replacement purposes, use specified volume control and omit resistor, R-13.

NOTE—In some receivers a 150,000 to 390,000 ohm resistor is connected across C-18.

Symbol	Description
C-1	Wave Trap Trimmer
C-2—C-6	R.F. Trimmer Strip
C-7—C-11	Osc. Trimmer Strip
C-12, C-13	Variable Condenser
C-14	Mica Capacitor, 47 Mmf.
C-15	Paper Capacitor, .25 Mfd.
C-16, C-17	1st I.F. Trimmer
C-18	Paper Capacitor, .25 Mfd.
C-19	Paper Capacitor, .05 Mfd.
C-20, C-21	2nd I.F. Trimmers
C-22	Mica Capacitor, 470 Mmf.
C-23, C-24	Paper Capacitor, .002 Mfd.
C-25	Mica Capacitor, 330 Mmf.
C-26	Paper Capacitor, .15 Mfd.
C-27, C-35	Paper Capacitor, .005 Mfd.
†C-28	Paper Capacitor, .01 Mfd.
C-29	Paper Capacitor, .001 Mfd.
C-30	Dry Electrolytic Capacitor, 12 Mfd.
C-31	Dry Electrolytic Capacitor, 20 Mfd.
C-32	Paper Capacitor, .02 Mfd.
*C-33	Dry Electrolytic Capacitor, 35 Mfd.
*C-34	Dry Electrolytic Capacitor, 15 Mfd.
R-1	Carbon Resistor, 47,000 Ohms
R-2	Carbon Resistor, 10,000 Ohms
R-3	Ballast Tube 49-A, 170 Ohms
R-4	Carbon Resistor, 2.2 Megohms
R-5	Carbon Resistor, 470,000 Ohms
R-6	Volume Control, 2.0 Megohms
R-7	Carbon Resistor, 15.0 Megohms
R-8	Carbon Resistor, 220,000 Ohms
R-10	Carbon Resistor, 470,000 Ohms
R-11	Carbon Resistor, 270,000 Ohms
R-12	Carbon Resistor, 680,000 Ohms
R-13	Carbon Resistor, 68,000 Ohms
S-1	Antenna Switch
S-2	Oscillator Switch
S-3	Power Switch
T-1	1st I.F. Transformer
T-2	2nd I.F. Transformer
T-3	Output Transformer
T-4	Oscillator Transformer
T-5	Antenna Transformer
L-10	Hum Buck Coil
L-11	Voice Coil
L-12	Field Coil—450 Ohms (cold)

Tubes

Converter and Oscillator	GE-6A8G
I.F. Amplifier	GE-6K7
Detector, AVC and Amplifier	GE-6Q7G
Power Amplifier	GE-25L6G
Rectifier	GE-25Z5
Ballast Tube	49-A

VOLTAGE CHART

Tube No.	6A8G	6K7	6Q7G	25L6G	25Z5
Plate to −B volts	115	115	55*	110	..
Screen to −B volts	75	75	..	115	..
Cathode to −B volts	0	0	0	0	115
Cathode Current MA	6.6	1.4	0.5	37	47
Filament Volts	6.0	6.0	6.1	24.5	24.0

Line Voltage—120 AC. No signal input
* Measured on 250-volt scale.
On DC, voltages are about 15 per cent lower.

When operating from a DC source of power, it is necessary to insert the power plug with proper polarity; otherwise, the receiver will fail to function. If excessive hum is noticed when the receiver is used on AC, reverse the power plug in the receptacle.

GENERAL INFORMATION

GD-60, GD-52, is a compact, five-tube AC-DC superheterodyne receiver, employing five General Electric Pre-tested Tubes as described above, in a superheterodyne circuit. It incorporates a simplified trimmer tuned "Touch-Tuning" system, allowing a set up of five stations for automatic tuning. Other features of design include I.F. wave trap, automatic volume control and an improved dustproof speaker.

I.F. Alignment

Connect an output meter across the voice coil. Set the volume control for maximum.

Set test oscillator to 455 and apply signal to the control grid of the 6A8G tube through a .05 mfd. capacitor. Do not remove the grid lead from the 6A8G and keep the test oscillator output as low as possible to give a readable output. Adjust all four I.F. trimmers for maximum output.

Wave Trap Alignment

Leave the test oscillator set to 455 K.C. and connect one output lead to the receiver chassis and the other through a 250 mmf. capacitor in series with 200 ohms to the receiver antenna lead. Adjust (C-1) for minimum output.

R.F. Alignment

Use the same dummy antenna (250 mmf. and 200 ohms) with 1500 K.C. input, adjust the oscillator trimmer (C-13) and antenna trimmer (C-12) for a maximum output.

Precaution—One side of the power supply is connected to the chassis through a .25 mfd. capacitor. If signal generator is AC operated, connect a .05 mfd. capacitor in the ground side before connecting it to the receiver chassis.