

General Electric Co.

Model: GD41

Chassis:

Year: Pre October 1938

Power:

Circuit:

IF:

Tubes:

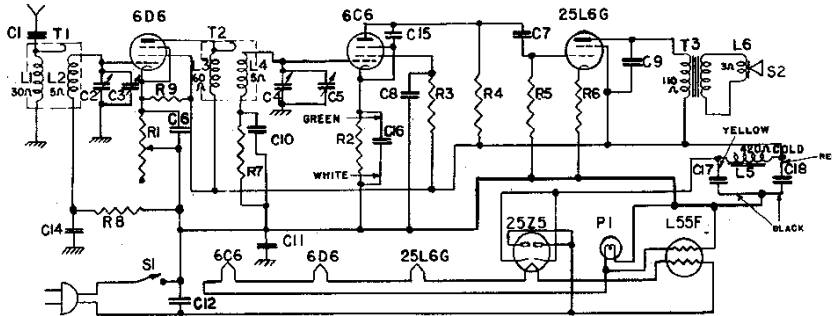
Bands:

Resources

Riders Volume 9 - GE 9-6

MODELS GD-41, GD-41U
Schematic, Voltage
Alignment, Parts
Specifications

GENERAL ELECTRIC CO.



Note—The schematic shown is for the Model GD-41-U. Model GD-41-A omits items C-10, C-11, C-16, R-7, R-8, R-9; also T-X has is grounded to chassis, coils L-2 and L-4 return to chassis, C-15 to chassis ground instead of to 6C6 cathode, low end of volume control is connected between C-1 and L-1.

SOCKET VOLTAGES

Tube No.	Plate to -B Volts D.C.		Screen to -B Volts D.C.		Cathode to -B Volts D.C.		Cathode Current M.A. D.C.		Heater Volts	
	AC	DC	AC	DC	AC	DC	AC	DC	AC	DC
6D6	113	90	113	90	9.0	7.4	0.7	0.6	6.35	6.06
6C6	20*	16.4*	45	37	3.1	2.5	0.1	0.08	6.35	6.06*
25L6G	108	88	113	90	7.5	6.2	40.5	33.1	25.0	23.5
25Z5	.....	.....	.....	.....	133	108	43.0	35.0	26.0	24.0

Symbol	Description
1	Capacitor—0.1 Mfd., 500 V. paper
2	Capacitor—0.01 Mfd., 500 V. paper
3	Capacitor—0.001 Mfd., 500 V. paper
4	Capacitor—0.0001 Mfd., 500 V. paper
5	Capacitor—Variable
6	Capacitor—Variable
7	Capacitor—Variable
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94	Capacitor—Variable
95	Capacitor—Variable
96	Capacitor—Variable
97	Capacitor—Variable
98	Capacitor—Variable
99	Capacitor—Variable
100	Capacitor—Variable

Line voltage 115 AC or DC—No signal input—1000 ohms per volt meter * Measured on 250 volt scale.
Dial pointer at 540 kc. Volume control at minimum. Note—The B - is not chassis ground on the Model GD-41-U.

REPLACEMENT PARTS LIST

Stock No.	Description	List Price
RC-009	CHASSIS ASSEMBLY	\$0.30
RC-089	CAPACITOR—0.01 mfd., 600 V. paper (C-1) (GD-41-U only), 600 V. paper (C-1) (GD-41 only), 600 V. paper (C-1) (GD-41-U only)	.25
RC-048	CAPACITOR—0.02 mfd., 600 V. paper (C-9)	.30
RC-092	CAPACITOR—0.05 mfd., 600 V. paper (C-8, 12)	.30
RC-104	CAPACITOR—0.1 mfd., 600 V. paper (C-4, 10)	.30
RC-235	CAPACITOR—0.001 mfd., mica (C-15)	.25
RC-588W	CAPACITOR—5 mfd., 16 mfd., 10 mfd., dry electrolytic (C-16, 17, 18)	1.50
RC-790W	CONDENSER—2 gang tuning condenser with plug	2.50
RC-805	CORNER—Power cord with plug	4.45
RC-824W	CONE—5-inch speaker cone	2.50
RC-5103W	CAPACITOR—Dry electrolytic (C-16, 17, 18) (25 cycle only)	2.90
RC-8028W	CORD—Drive cord and spring	2.45
RD-077W	DRIVE—Condenser drive drum assembly	4.40
RG-013	GRID CLIP—Control grid clip (Pkg. 5)	.10
RH-002W	HANK—Antenna hank—20-foot	.30
RK-029W	KNOBBS—Control knobs (Pkg. 2)	4.00
RL-004W	COIL—Antenna coil (L-1, L-2) (GD-41-U only)	1.00
RL-068W	COIL—Antenna coil (L-1, L-2) (GD-41 only)	.90
RL-143W	COIL—R.F. coil (L-3, L-4) (GD-41-U only)	.85
RL-147W	COIL—R.F. coil (L-3, L-4) (GD-41 only)	.85
RL-323W	COIL—S. coil (L-5) (GD-41-U only)	2.90
RP-114W	POINTER—Dial scale pointer	\$0.80
RQ-1239	RESISTOR—150 ohm, 1/2 W. carbon (R-6) (Pkg. 5)	.70
RQ-1296	RESISTOR—35,000 ohm, 1/2 W. carbon (R-2) (Pkg. 5)	.70
RQ-1299	RESISTOR—20,000 ohm, 1/2 W. carbon (R-3) (Pkg. 5)	.70
RQ-1324	RESISTOR—0.5 megohm, 1/2 W. carbon (used on Model GD-41-U only) (R-7, 8) (Pkg. 5)	.70
RQ-1321	RESISTOR—1.0 megohm, 1/2 W. carbon (Pkg. 5)	.70
RQ-1343	RESISTOR—5 megohm, 1/2 W. carbon (R-3) (Pkg. 5)	.70
RR-741W	RESISTOR—Ballast tube resistor	.80
RS-078W	SPEAKER—5-inch dynamic speaker (GD-41)	4.25
RS-080W	SPEAKER—5-inch dynamic speaker (GD-41-U)	4.50
RS-189W	SHIELD—Tube shield, base and ring	.15
RS-191W	SHIELD—Asbestos shield (GD-41-U)	.15
RS-200	SOCKET—8 pin tube socket (octal base) (Pkg. 5)	.75
RS-915	SOCKET—6 pin tube socket (Pkg. 5)	.20
RS-913W	SOCKET—6 pin tube socket and "C" washer (Pkg. 5)	.20
RT-441W	TRANSFORMER—Output transformer (T-3)	2.50
RV-043W	VOLUME CONTROL—Combination volume control (R-1) speaker	1.10
RW-328W	ASSEMBLY—Pilot lamp assembly (GD-41)	.40
RX-050W	ASSEMBLY—Pilot lamp assembly (GD-41-U)	.40
RX-054W	ASSEMBLY—Pilot lamp assembly (GD-41-U)	.60
RZ-108W	CABINET—GD-41 or GD-41-U cabinet	6.25

* Used on previous receivers. (Prices subject to change without notice)

MODELS GD-41 AND GD-41-U
Physical Specifications

Model	GD-41-U
Height	7 3/4 inches
Width	10 1/4 inches
Depth	6 1/4 inches
Weight packed	10 lbs.

Tuning Control Drive Ratio..... 8:1

Electrical Specifications

Rating Label	Power Supply (Volts)	Frequency (Cycles)	Power Consumption (Watts)
GD-41A	105-125	40-100	48
GD-41C	105-125	25-40	48
GD-41-U	105-125	40-100	48

Tuning Frequency Range
Band "B"..... 540-1800 kc.
Alignment Frequency..... 1500 kc.

Electrical Power Output
Undistorted..... 1.0 watt
Maximum..... 2.0 watts

Load speaker—Electrodynamc
Outside Cone Diameter..... 5 inches
Voice Coil Impedance..... 3.5 ohms at 400 cycles
Field Coil Resistance..... 420 ohms (cold)

- Tubes**
R. F. Amplifier..... GE-6D6
Detector..... GE-6C6
Power Output..... GE-25L6G
Ballast Tube Resistor..... GE-25Z5
Dial Lamp..... MAZDA No. 44

GENERAL INFORMATION

Models GD-41 and GD-41-U are compact four tube AC-DC tuned radio receiver for use in the home. The Model GD-41 has 10 bands and 1000 kc. tuning range. The Model GD-41-U has one side of the power line connected directly to the chassis ground, while in the Model GD-41-U, condensers are used to isolate the power supply voltage from the chassis frame. Model GD-41-U is fully approved by Underwriters' Laboratories. 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 any hum is noticed when the receiver is used on AC, reverse the power plug in the receptacle.

ALIGNMENT

Connect the high side of the signal generator through a 250 ohm. condenser to the antenna lead. The low side of the signal generator is connected to the chassis ground. Connect a suitable output meter across the voice coil leads; then proceed as follows:
1. With gang condenser plates completely closed, the dial pointer should coincide with the horizontal dial line.
2. Tune receiver to the 1500 kc. point on the dial; then align trimmers (C-3 and C-5) on the gang condenser at 1500 kc. for a maximum output meter reading.
Precaution—One side of the signal generator is connected to the chassis—Do not connect chassis to any external ground.