

General Electric Co.

Model: 412

Chassis:

Year: Pre 1955

Power:

Circuit:

IF:

Tubes:

Bands:

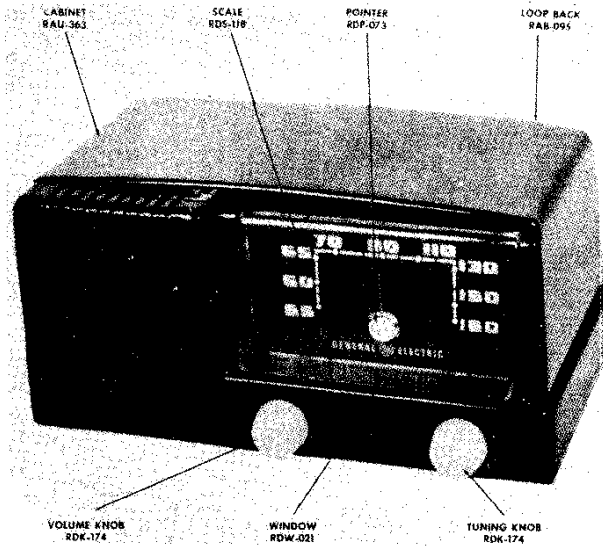
Resources

Riders Volume 23 - GE 23-15

Riders Volume 23 - GE 23-16

Riders Volume 23 - GE 23-17

Riders Volume 23 - GE 23-18



SPECIFICATIONS

CABINET:

Color Black
 Height 6 1/8 in.
 Width 12 1/2 in.
 Depth 7 1/4 in.

ELECTRICAL RATING:

Voltage 105-125, 50-60 cycles or DC
 Watts 26

OPERATING FREQUENCIES:

Standard Wave Band 540-1600 KC
 I-F Amplifier 455 KC

POWER OUTPUT:

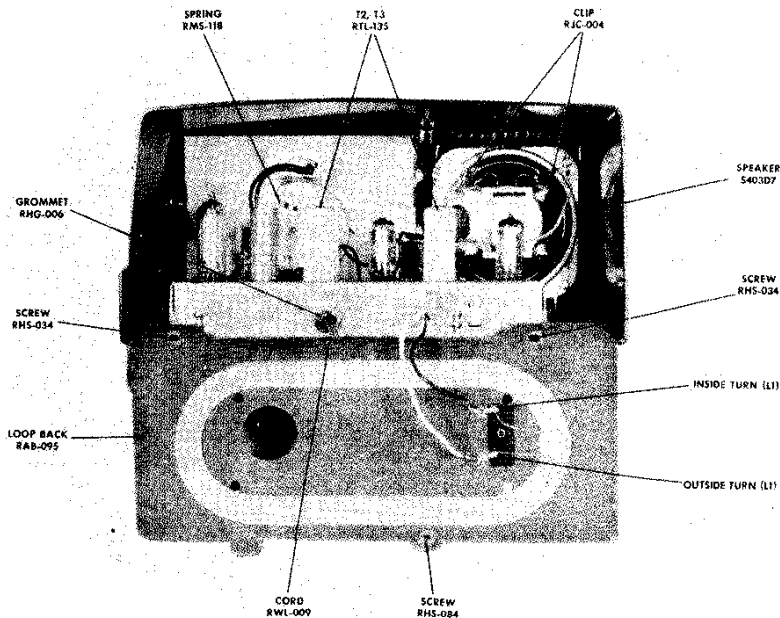
Undistorted 1 watt
 Maximum 1.75 watts

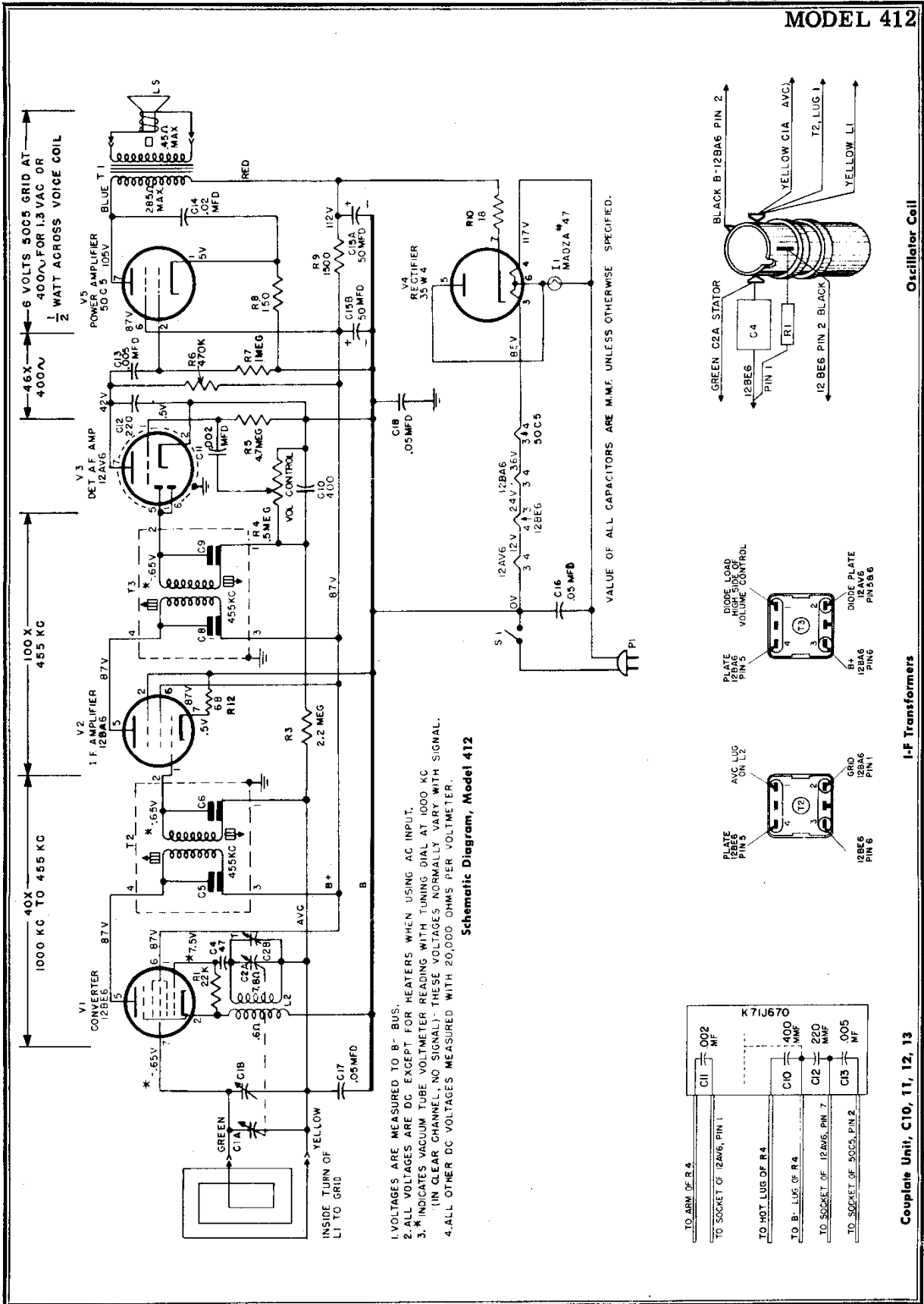
LOUDSPEAKER:

Type Alnico PM
 Outside Cone Diameter 4 inches
 Voice Coil Impedance @ 400 cycles 3.2 ohms

TUBE COMPLEMENT:

V1 Oscillator-Converter 12BE6
 V2 I-F Amplifier 12BA6
 V3 Detector-Audio 12AV6
 V4 Rectifier 35W4
 V5 Audio Power Amplifier 50C5
 I1 Dial Light G. E. Mazda No. 47

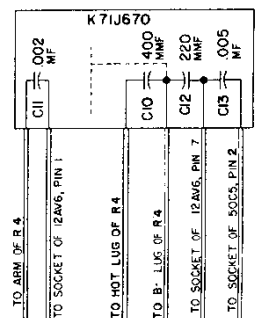




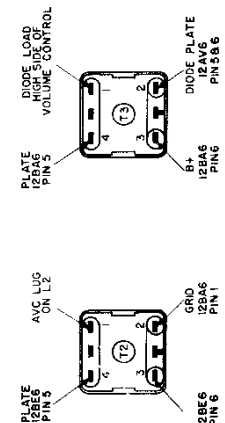
Schematic Diagram, Model 412

1. VOLTAGES ARE MEASURED TO B+ BUS.
2. ALL VOLTAGES ARE DC EXCEPT FOR HEATERS WHEN USING AC INPUT.
3. * INDICATES VACUUM TUBE VOLTMETER READING WITH TUNING DIAL AT 1000 KC (IN CLEAR CHANNEL, NO SIGNAL); THESE VOLTAGES NORMALLY VARY WITH SIGNAL.
4. ALL OTHER DC VOLTAGES MEASURED WITH 20,000 OHMS PER VOLTMETER.

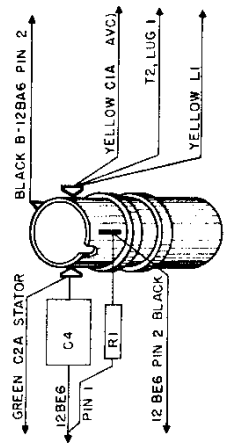
VALUE OF ALL CAPACITORS ARE M.M.F. UNLESS OTHERWISE SPECIFIED.



Coupler Unit, C10, 11, 12, 13

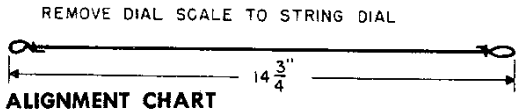


I-F Transformers



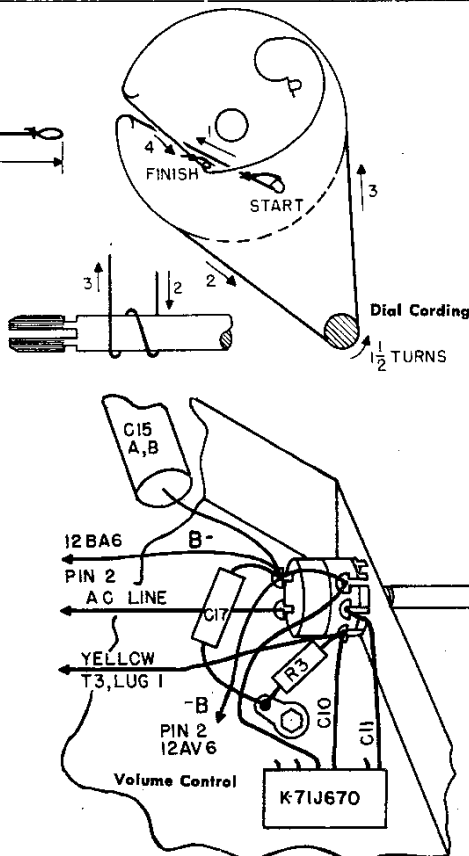
Oscillator Coil

MODEL 412



Always have volume control set for maximum and reduce signal input so AVC will not affect output.

Step	Connect Test Oscillator to	Test Osc. Setting	Radio Dial Setting	Adjust for Maximum
I-F ALIGNMENT				
1	V2, 12BA6 grid (Pin 1) in series with .05 mfd.			Cores of second I-F transformer, T3
2		455 kc		Cores of first I-F transformer, T2
3	V1, 12BE6 grid (Pin 7) in series with .05 mfd.			Recheck adjustment of T2 and T3, for max.
R-F ALIGNMENT				
4	Inductively coupled to radio loop	1620 kc	Minimum capacity C1A, C2A	C2B oscillator trimmer
5		1500 kc	For Maximum	C1B, R-F trimmer
6	Set pointer to 150.			



PARTS LIST FOR MODEL 412

Cat. No.	Symbol	Description	Unit Price	Cat. No.	Symbol	Description	Unit Price
CAPACITORS				MISCELLANEOUS ELECTRICAL			
*RCE-127	C15A, B	50 mf., 150 v.; 50 mf., 150 v., electrolytic	\$1.85	*RJC-004		CONNECTOR—Speaker connector clip on audio output leads	\$0.02
*RCT-037	C1A, B; C2A, B	Two gang, osc., 10.6-126 mmf., r-f 14.3-420 mmf., with drive drum and trimmers	3.60	*RJS-092		SOCKET—Miniature wafer, seven pin wax impregnated, 1 5/16 in. mounting centers; for tubes 12BE6, 12AV6, 50C5, 35W4	.20
*RCW-3048	C10, 11, 12, 13	400 mmf., .002 mf., 220 mmf., .005 mf., 450 v., ceramic	.90	*RJS-141		SOCKET—Miniature wafer, seven pin, 1 5/16 in. mounting centers; for tube 12BA6	.20
*UCC-041	C14	.02 mf., 600 v. paper	.25	*RJX-031		SOCKET—Bayonet type for Mazda #47 dial lamp; with clip-on bracket.	.40
*UCC-045	C16, 17, 18	.05 mf., 600 v., paper	.30	*RWL-009		POWER CORD—AC cord and plug, brown	.70
*UCU-020	C4	47 mmf., 500 v., mica	.25	*S403D7		LOUDSPEAKER—4 in. PM, 4 watt	4.30
RESISTORS (CARBON)				MISCELLANEOUS MECHANICAL			
*URD-007	R10	18 ohms 1/2 w.	\$0.13	*RDC-032		CORD—Dial cord, bulk quantity 25 yds	\$2.50
*URD-021	R12	68 ohms 1/2 w.	.13	*RDK-174		KNOB—Off-volume or tuning control knob, color buff	.15
*URD-029	R8	150 ohms 1/2 w.	.13	RDP-073		DIAL POINTER—Dial pointer, metal, brass finish	.40
*URD-081	R1	22,000 ohms 1/2 w.	.13	RDS-118		DIAL SCALE—Dial scale and back-plate, plastic, ivory, translucent numerals	1.05
*URD-113	R6, 11	470,000 ohms 1/2 w.	.13	*RHC-024		CLIP—1/2 in. clip mounts C15A, B	.10
*URD-121	R72	1 megohm 1/2 w.	.13	*RHC-034		CLIP—For mounting I-F transformers	.05
*URD-129	R3	2.2 megohms 1/2 w.	.13	*RHG-006		GROMMET—For 110 v. line cord	.05
*URD-137	R5	4.7 megohms, 1/2 w.	.13	*RHG-018		GROMMET—Rubber shock mount for tuning capacitor	.05
*URF-053	R9	1500 ohms, 2 w.	.25	*RHJ-007		SPACER—In grommet, RHG-018, mounting tuning capacitor	.05
POTENTIOMETER				*RMC-002		CLIP—Osc. coil mtg. clip	.05
*RRC-106	R4, S1	500K ohms, composition, volume control and on-off switch.	\$1.65	*RMS-118		SPRING—Dial cord tension spring	.10
COILS AND TRANSFORMERS				*RMX-170		SHAFT—Tuning shaft and bushing assembly	.35
*RLC-117	L2	COIL—For oscillator V1	\$0.90	CABINETS AND CABINET PARTS			
*RTL-135	T2, C5, C6, T3, C8, C9	TRANSFORMER—1st or 2nd I-F, 455KC	1.90	*RAB-095		BACK—Includes antenna loop, L1	\$1.55
*RTO-069	T1	TRANSFORMER—Audio output	1.75	*RAU-363		CABINET—Plastic, black	6.25
				*RDW-021		DIAL WINDOW—Plastic, 6 1/2 x 3 1/2 inches	.60

*Parts used on previous receivers.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.