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ALIGNMENT PROCEDURE

- Connect output meter across speaker voice coil.
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. capacitor in series with low side of signal generator and connect to chassis.
 Caution: Do not connect a ground wire directly to chassis.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined in chart below.
- Use a non-metallic alignment tool for IF transformers.
- Repeat adjustments to insure good results.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment			
Y	.001 mfd. capacitor	Antenna stator of tuning capacitor	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum Output			
2	.001 mfd. capacitor	Antenna stator of tuning capacitor	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum Output			
3	Loop of several turns of wire or place generator lead close to receiver loop for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	F	Maximum Output			
4	Set dial pointer slide as shown in Pointer Setting and Dial Cord Stringing Diagram below. Also see instructions below on "Removing Or Installing Chassis In Cabinet" and on "Setting Pointer Slide."									

^{*}Adjustments A and C made from the underside of the chassis. To avoid splitting the slotted head of powdered iron core tuning slugs in IF transformers, use an alignment tool with a blade 1/8" wide.

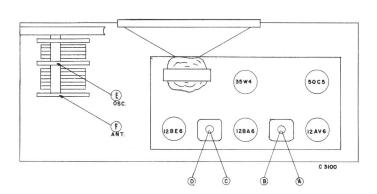
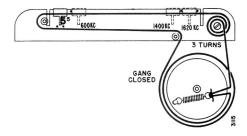


Figure 2. View of Chassis. Location of: Components and Alignment Adjustments Shown. Adjustments A and C made from underside.

REMOVING OR INSTALLING CHASSIS IN CABINET

When installing, carefully slide the chassis into the cabinet. See the "Pointer Setting and Dial Cord Stringing" diagram at the right. The bracket which mounts the tuning controls is mounted on the speaker frame.

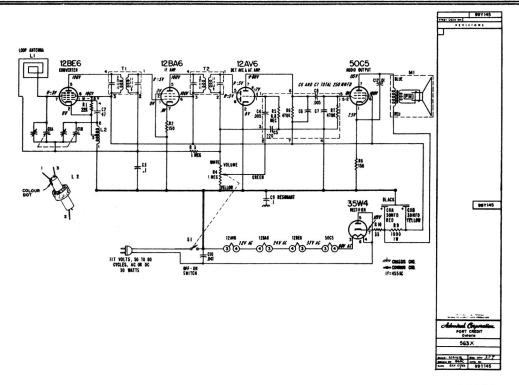
POINTER SETTING AND DIAL CORD STRINGING



With the gang condenser fully closed, place the pointer slide nearest the volume control as shown in the figure above. The three punched holes indicate tracking points.



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VOLTAGE DATA

Voltages shown on schematic diagram.

- All readings made between tube socket terminals and B minus.
- Dial turned to low frequency end; volume control at minimum.
- Measured on 117 Volts AC line.
- Voltages measured with vacuum-tube voltmeter.

Models 5G31X Ebony, 5G32X Mahogany and 5G33X Ivory

SPECIFICATIONS

Circuit: Superheterodyne using 5 miniature tubes. See additional circuit information on front page.

Frequency Range: Standard broadcast band, 535 to 1620 KC.

Intermediate Frequency: 455 KC.

Power Supply: Power line of 117 volts, 25 to 60 cycles AC or DC.

Power Consumption: 30 watts.

Antenna: Built-in loop antenna.

Speaker: 4" PM. with Alnico V magnet. Voice coil

impedance, 3.2 ohms.

RESISTORS			CAPACITORS (Continued)			MISCELLANEOUS PARTS (Continued)		
Sym.	Description Part No.	Sym.	Description	Part No.	Sym.	Description	Part No.	
R1 R2 R3 R4 \$R5 \$R6 \$R7 R8 R9 R10 C1A C1B C2 C3 \$C4 \$C5 \$C6 \$C7 \$C8	22, 000 ohms, 1/2 watt	C10 C11A C11E C12 L1 L2, T1 T2 M1 S1	.047 mfd, 400 volts, paper. 50 mfd, 150 volts 3 0 mfd, 150 volts	64B9-28 67L1-5 65C10-3 ETC. 69Y172-1 69W52-5 72C28-7 72C28-7 78X84-1 Part of R4 63B6-7 C6, C7, C8) RTS	Baffle Board Dial Backgro Dial Cord (27 Dial Scale Grommet (for Knob, Tuning Ebony Maroon Line Cord Pointer, Dial Shaft, Tuning Snap Button f Socket, Tube Spacer, Meta Speed Nut for mtg. baf for mtg. baf for mtg. dia Spring, Dail Washer, "C" Washer, Spri Washer, Feit	& Grille Cloth and " Length needed) r mtg. gang) or mtg. cabinet back. al "T" (for mtg. gang) file cl scale Cord Tension (for tuning shaft) ing (for knobs) ing.	AA227-9 15B939 50A1-3 21C69-1 12B1-2 33A110-1 33A110-2 33A110-3 89W1-6 25A56-1 28A26-8 13A1-5-71 87A3-4 29A2-1-71 2B10-47-59 2B10-12-59 19C1-5 4K4-2-71 4A6-3-0 5A4-4	