

GENERAL ELECTRIC COMPANY

Models C405A, B, C406A, B

SPECIFICATIONS

CABINET:	Model C405A, B-- Gray and White Model C406A, B-- Pink
ELECTRICAL RATING:	105-120 volts AC 30 Watts @117 Volts AC
OUTPUT:	Undistorted .9 Watts Maximum 1.5 Watts

GENERAL INFORMATION

The main difference in the "A" and "B" versions of the C405 series of clock-radios is the oscillator-converter stage (V1). The "A" version uses a 12AU6 tube as V1 and the "B" version uses a 12BE6 as V1. The V1 stage for the "B" version is shown as a separate stage on the schematic.

The tuning knob is held to the cabinet and cannot be removed without first removing the chassis.

SERVICE NOTE

Always use an isolation transformer when servicing or aligning this receiver to protect personnel and test equipment.

When aligning, keep the signal input low so the AVC will not affect the output.

TO REMOVE CABINET FRONT

Remove the two screws located on each side of the cabinet back; unscrew the clock set knob; separate the cabinet front from the back. When separating the cabinet, the speaker leads must be unsoldered before complete separation of the cabinet can be accomplished. The speaker is mounted on the cabinet back with the radio chassis and clock mounted on the cabinet front.

TO REMOVE CHASSIS

Remove the volume control knob. Take out the four hexhead screws, one on each corner of the chassis board and one hexhead screw below the tuning condenser. Unsolder the one wire to switch on the clock and one to the clock motor.

Close the tuning condenser C1, and with the thumb and forefinger grasp the condenser and pull. The chassis will separate from the tuning knob which is left attached to the cabinet front.

TO REMOVE THE CLOCK

Separate the cabinet as described above. Unsolder the two leads, one from the switch to the circuit board and one from the clock motor to the circuit board. Remove the two screws holding the AC interlock to the cabinet. Remove the two clock knobs. Snap out the clock crystal starting from the left side. Then, remove the two nuts holding the clock to the cabinet and remove the clock.

TROUBLESHOOTING

Excessive loudness when adjusting the volume level to minimum is caused by excessive capacity between terminals 2 and 3 of RCW-3207. The excessive capacity can be eliminated without replacing the couplate or by removing the circuit board in the following manner:

1. Clip off couplate lead #3.
2. Solder a 220 mmf. capacitor (Cat. No. RS-1203) across the two outside terminals of the volume control, located on the component side of the chassis board.

