GENERAL ELECTRIC

Models P710A, -B, -C, -C$_1$, and P711A, -B, -C, -C$_1$

Production Changes

P710B

C8-- 3000mmf., connected to junction of C9 and C10.
C15- 50mf., 6V, connected across R11
R8-- 22K
R12- 390 ohms
See Fig. A for X3 and X4 stages.

P710C

C8-- 3000mmf., connected to junction of C9 and C10.
C16- 3mf.
R4-- 120 ohms
R7-- 1.5 meg
R8-- 22K
R12- 390 ohms
R13- 3.3K
R14- 18K
See Fig. B for X3 and X4 stages.

P710C$_1$

C8-- 3000 mmf., connected to junction of C9 and C10.
C17- 3mf.
R8-- 22K
R17- 4.7K
R17 and C17 mounted to solder side of component board.
See Fig. C for X3 and X4 stages.

GENERAL ELECTRIC

Models P710A, -B, -C, -C$_1$, and P711A, -B, -C, -C

TO REMOVE CHASSIS FROM THE CABINET

Pry off the cabinet back by using a small coin in the slots provided on the bottom of the case. Pull off the volume control knob. Remove the tuning knob by unscrewing the thumb screw in its center in a counterclockwise direction; then pull off the large knob. Remove the Phillips flat head screw located under the tuning dial. Also remove the two Phillips head screws located on the speaker end of the chassis. This will enable the chassis to come free from the cabinet front.

This receiver is of dual chassis design. The speaker, loop antenna, volume control, and tuning condenser are mounted on the upper metal chassis. All transistors, transformers, and components are soldered on the etched circuit board.

To separate the metal chassis from circuit board, unsolder the two tabs that hold the volume control to the metal chassis; unsolder the lead from the loudspeaker; unsolder the lead from the top lug of the tuning gang oscillator section and two loop leads to the chassis board; carefully bend the two mounting lugs on the speaker end of the circuit board and one on the tuning condenser end; also unsolder the lug near the phone jack; then gently pull off the circuit board. The tuning condenser, loop antenna, and speaker will remain on the metal chassis.

COMPONENT REMOVAL

To remove the speaker from the radio, unsolder one speaker lead and carefully bend over condenser C13 and remove speaker mounting screw.

Remove the tuning condenser by unscrewing the two mounting screws located on the face of the metal chassis.

To replace the volume control, unsolder the three volume control leads at the control and the two switch leads on the back of the control.

ALIGNMENT

Feed the output from the signal generator to the junction of C2 and the loop antenna for IF alignment. For oscillator and antenna peaking, radiate a signal to the receiver by connecting a ferrite-rod antenna to the signal generator output leads.

All alignment points can be adjusted with the cabinet back off. The I.F. and oscillator cores can be peaked by using the holes provided in the circuit board.

Keep RF from signal generator low.

It is advisable to check battery voltage before alignment to insure a proper operating voltage. Always align the receiver with the batteries in place, as their close proximity to the loop antenna maintains the inductance constant for maximum operating efficiency.

1. Align all IF cores in T1, T2 and T3.
2. With gang fully open align oscillator trimmer C1D to peak at 1620KC.
3. Peak antenna trimmer C1C to maximum output at 1400 KC.
4. Rock oscillator core and gang to peak at 580 KC.

Repeat steps 2, 3 and 4 as necessary.

ALTERNATE CIRCUIT DESIGN FOUND ON EARLY MODELS

TRANSISTOR REPLACEMENT

To replace X4, remove the speaker as described above.

To remove X2, use needle nose pliers through the hole near the volume control.