

GENERAL ELECTRIC

Models C415, -A, -B, C416, -A, -B, and C417

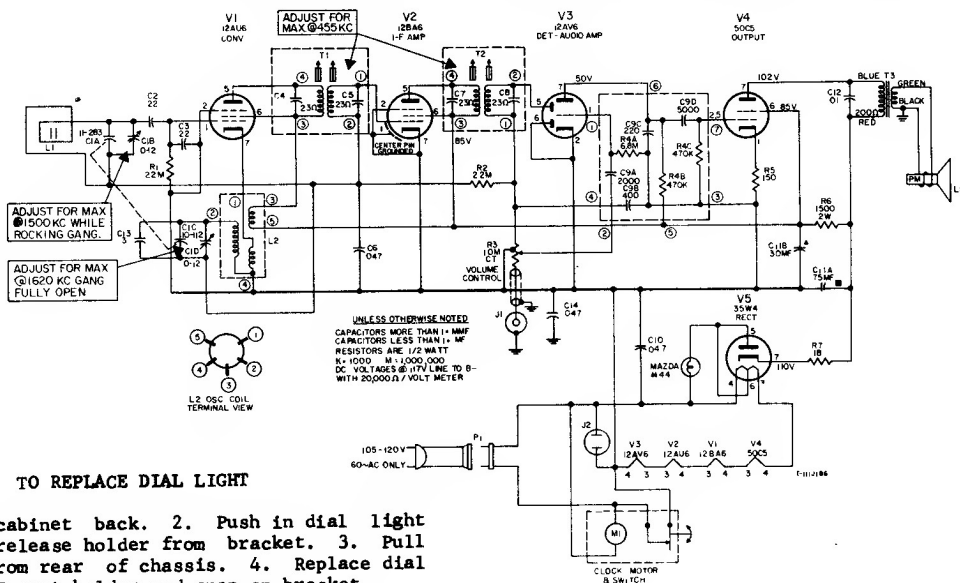
TO REMOVE CHASSIS FROM CABINET

1. Remove tuning, volume and timer knobs.
2. Remove time set knob from shaft at back of cabinet. Hold shaft and turn knob counter clockwise.
3. Remove five hex-head screws on cabinet back.
4. Remove four hex-head screws on bottom of cabinet.
5. Remove Snooz-Alarm knob.
6. Remove timer by unscrewing four Phillips head screws.
7. Unsolder speaker leads from speaker.
8. Pull chassis out slowly. Leads from chassis to timer remain attached for A. C. while testing.

CAUTION

The chassis uses the dip solder copper-plated printed circuit to eliminate most of the interconnecting wiring. When soldering, keep the heat to a minimum to prevent the printed wiring from becoming unbonded. A 35 to 50 watt soldering iron is recommended.

Always use an isolation transformer when servicing this receiver. To protect the test equipment being used when aligning, connect the output lead of the signal generator to the grid of an I. F. tube through a .05 capacitor. This will prevent the output impedance of the generator from having a loading effect on the circuit.

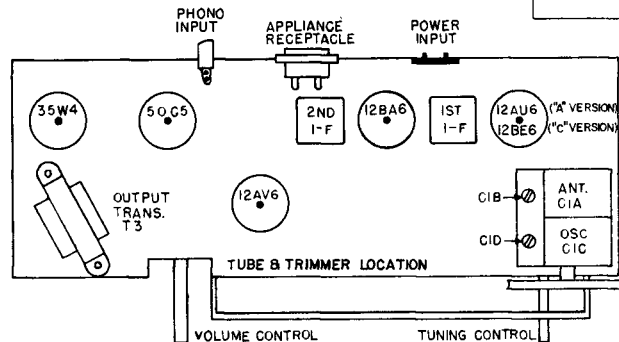
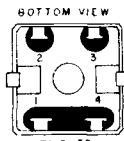
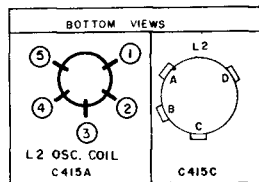


TO REPLACE DIAL LIGHT

1. Remove cabinet back.
2. Push in dial light holder and release holder from bracket.
3. Pull holder out from rear of chassis.
4. Replace dial light.
5. Insert holder and snap on bracket.

STEP	CONNECT TEST OSCILLATOR TO	TEST OSCILLATOR SETTING	TUNING GANG SETTING	ADJUST FOR MAXIMUM OUTPUT
I. F. ALIGNMENT				
1	V2, 12BA6 grid (pin 1) in series with .05 mfd.			Cores of 2nd I. F. Transformer T2
2	V1, 12AU6 grid (pin 1) in series with .05 mfd.			Cores of 1st I. F. Transformer T1
3				Recheck adjustment of T1 and T2
R. F. ALIGNMENT				
4	Inductively coupled to radio loop	1620 kc	Tuning gang Open	C1D
5		1500 kc	For Maximum Output	CLB*

* Rock Tuning for maximum while adjusting CLB.



ALIGNMENT

SET VOLUME CONTROL AT MAXIMUM
CONNECT OUTPUT METER OR SCOPE ACROSS VOICE COIL

STEP 1 & 2 - SET SIGNAL GENERATOR AT 455KC WITH RECEIVER TUNING GANG OPEN USE .05 CAPACITOR TO COUPLE TO GRID INDUCTIVELY COUPLE SIGNAL GENERATOR TO RECEIVER FOR ALIGNMENT OF OSCILLATOR AND RF TRIMMERS

STEP 3 - SET SIGNAL GENERATOR AT 1620KC WITH RECEIVER TUNING GANG OPEN

STEP 4 - SET SIGNAL GENERATOR AT 1500KC, TUNE RECEIVER TO 1500KC ON DIAL (SEE ABOVE STEPS)

GENERAL ELECTRIC
Models C415A,C,
C416A,C, C417A,C

STEP 4
ADJUST FOR MAX.
@1500 KC WHILE
ROCKING GANG.

STEP 3
ADJUST FOR MAX.
@1620 KC GANG
FULLY OPEN.

STEP 4
ADJUST FOR MAX.
AT 1500KC WHILE
ROCKING GANG

STEP 3
ADJUST FOR MAX
AT 1620 KC, GANG
FULLY OPEN

V1
12AU6
CONV
("A" VERSION)

STEP 1&2
ADJUST FOR
MAX @455 KC

V2
12BA6
I-F AMP

V3
12AV6
DET - AUDIO AMP

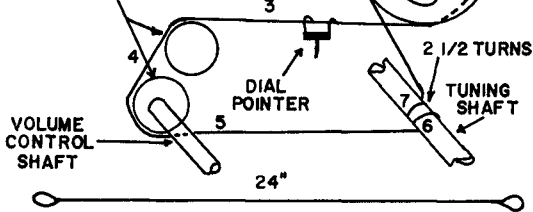
V4
50C5
OUTPUT

UNLESS OTHERWISE NOTED
CAPACITORS MORE THAN 1- MF
CAPACITORS LESS THAN 1- MF
RESISTORS ARE 1/2 WATT
K= 1000 M=1,000,000
DC VOLTAGES @ 117V LINE TO B-
WITH 20,000 Ω / VOLT METER

V1
12BE6 ("C" VERSION)
OSC - CONV.

MODELS
C415A,C
C416A,C
C417A,C

**DIAL STRINGING
PULLEYS**



GENERAL ELECTRIC



3.20MM AT
400~
4" PM. SPEAKER