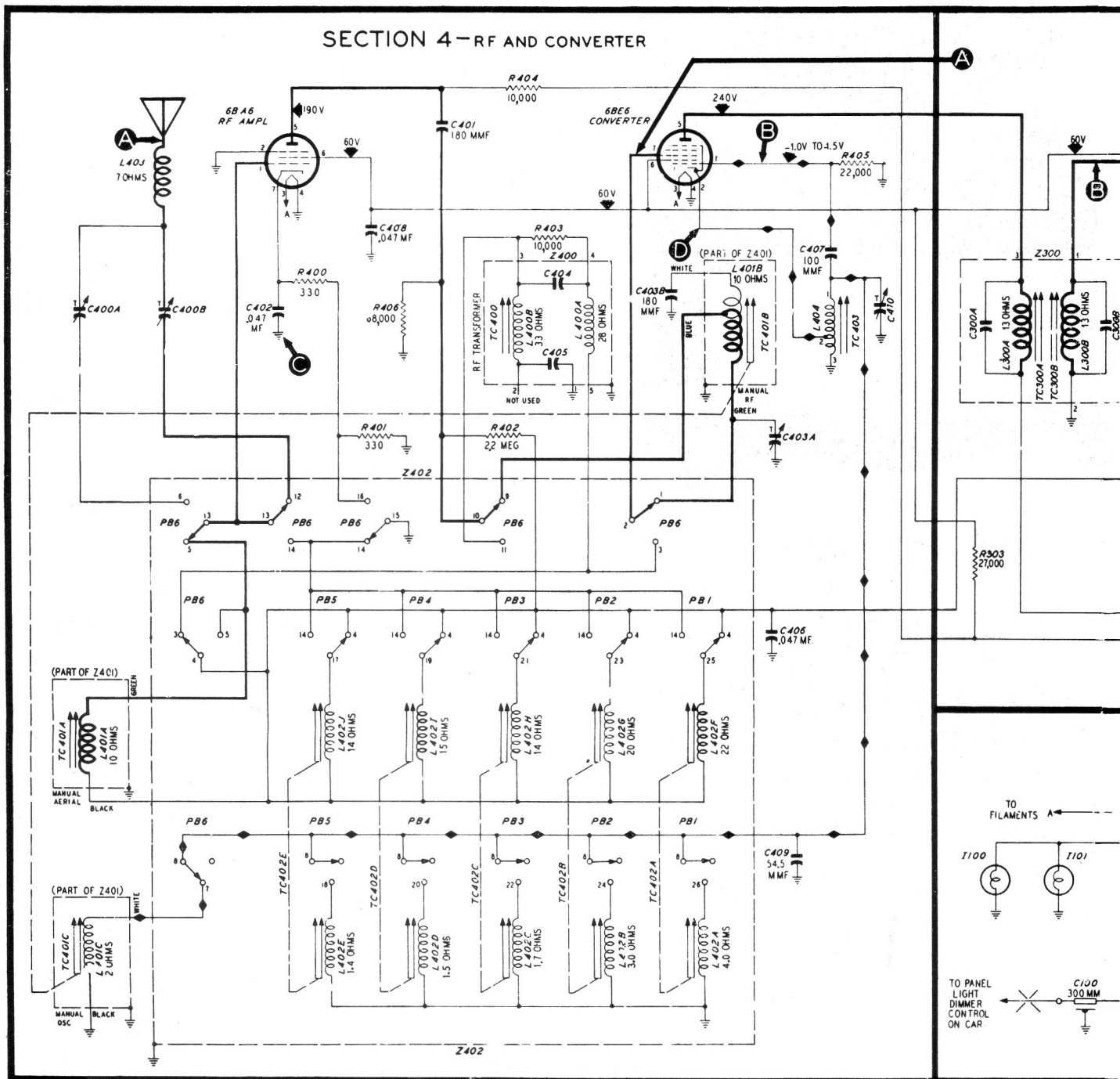
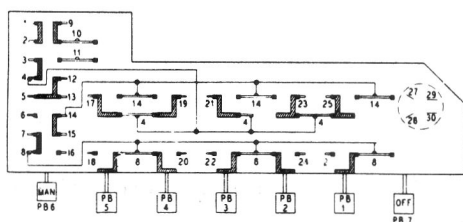
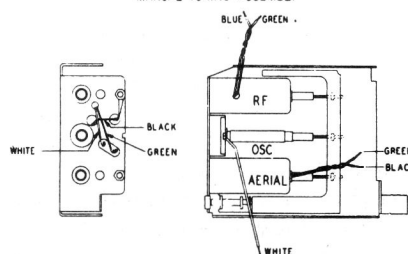
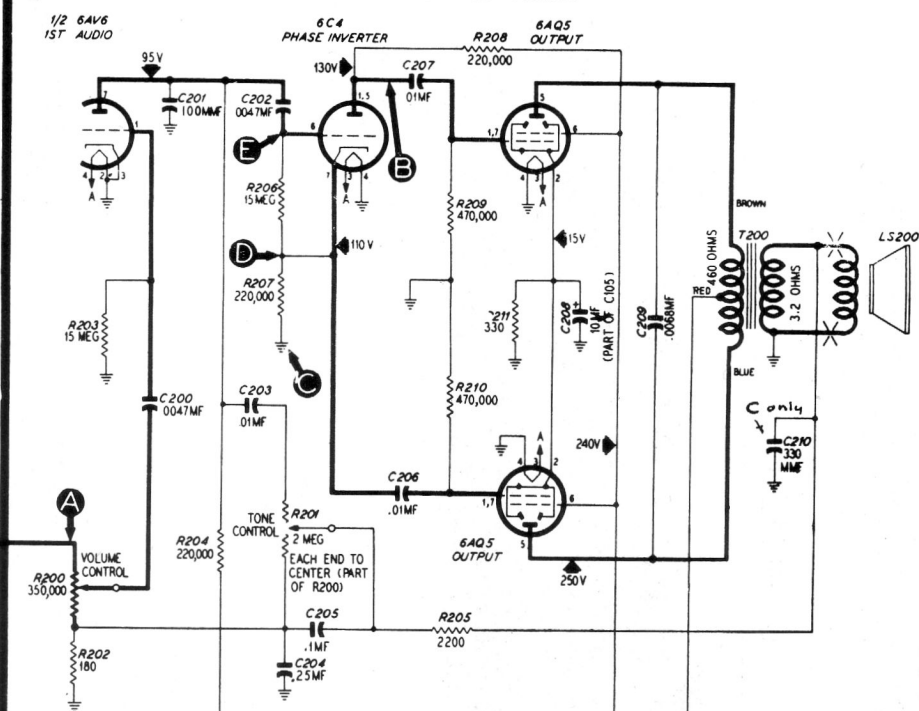
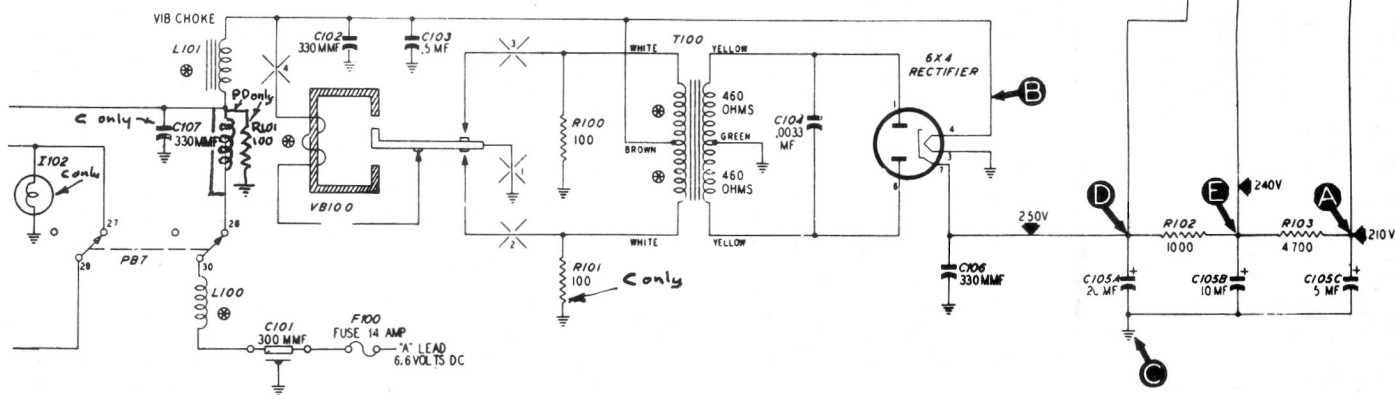


SECTION 4—RF AND CONVERTER

PART OF Z402
PUSH BUTTON SWITCH ASSEMBLY

Z401
MANUAL TUNING ASSEMBLY


SECTION 2-AUDIO



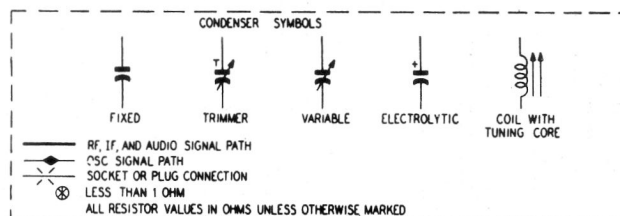
IF = 460 KC



SECTION 1-POWER SUPPLY



PUSH BUTTON SWITCH SHOWN IN MANUAL POSITION.



ALIGNMENT PROCEDURE

DIAL POINTER—With tuning core fully meshed, adjust pointer to coincide with index mark at low-frequency end of scale, to left of "55."

RADIO CONTROL—Set volume control to minimum. Set tone control to MUSIC position. Set push buttons and tuning control as indicated in chart.

OUTPUT METER—Connect across voice coil.

SIGNAL GENERATOR—Use AM +F signal generator, with modulated output. Connect ground lead to chassis, and connect output lead as indicated in chart.

OUTPUT LEVEL—During alignment, signal-generator output must be attenuated to hold output-meter reading below 1.5 volts.

STEP	CONNECTION OF GENERATOR TO RADIO	GENERATOR SETTING	RADIO CONTROL SETTING	SPECIAL INSTRUCTIONS	ADJUST TRIMMER
1	Through .05-mf. condenser to mixer grid, pin 7 of 6BE5.	460 kc.	Depress manual push button.	Adjust, in order given, for maximum output. (TC301A and TC300A are reached through holes in the bottom of the IF transformers.)	TC301B—2nd IF sec. TC301A—2nd IF pri. TC300B—1st IF sec. TC300A—1st IF pri.
2	Through dummy aerial to antenna receptacle. See note below.	460 kc.	Depress any station-selector push button.	Adjust for minimum output.	TC400—IF trap
3	Same as step 2.	1605 kc.	Depress manual push button.	Adjust for maximum output.	C410—osc. trimmer
4	Same as step 2.	1400 kc.	Depress manual push button.	Adjust for maximum output.	C400B—aerial trimmer C403A—IF trimmer
5	Same as step 2.	580 kc.	Depress manual push button.	Adjust for maximum output while rocking tuning control.	TC403—osc. shunt
6	Same as step 2.			Repeat steps 3 and 4.	
7	Same as step 2.			If there was considerable change in step 5, repeat step 5.	
8	Same as step 2.	1200 kc.	Depress PB5.	Set PB5 tuning core to signal (1200 kc.), and adjust C400A for maximum output.	C400A—PB aerial trimmer
9			Depress manual push button.	With the radio and aerial installed, adjust for maximum, using a weak signal at or near 1400 kc.	C400B—manual aerial trimmer
10			Depress PB5.	Same as step 9 except use a station at or near 1200 kc.	C400A—PB aerial trimmer

DUMMY AERIAL: Connect signal-generator output lead through 40-mmf. condenser to aerial receptacle; connect another 40-mmf. condenser from the receptacle to chassis. It is important that these dummy-aerial instructions be carefully followed if the radio is to perform at its best after being installed in the car.

• While performing steps 3 through 10 inclusive, the wiring-side cover must be fastened in place.

DIAL POINTER—Set tuning core to full-mesh position. Adjust dial pointer to coincide with index mark, to the left of "55."

SIGNAL GENERATOR—Connect ground lead to chassis; connect output lead as indicated in chart. Use modulated output.

OUTPUT METER—Connect across voice coil.

RADIO CONTROLS—Set volume control to minimum, and tone control fully clockwise. Set tuning control and push buttons as indicated in chart.

OUTPUT LEVEL—During alignment, adjust signal-generator output to maintain output-meter indication below 1.5 volts.

PD-4908

STEP	SIGNAL GENERATOR CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	RADIO	SPECIAL INSTRUCTIONS	ADJUST
1	Through .05-mf. condenser to mixer grid (pin 7) of 6BE5.	460 kc.	Depress manual push button. Tune to 1600 kc.	Depress manual push button.	Adjust, in order given, for maximum output. (TC301A and TC300A are reached through holes in bottom of IF transformers.)	TC301B—2nd IF sec. TC301A—2nd IF pri. TC300B—1st IF sec. TC300A—1st IF pri.
2	Through dummy aerial to aerial receptacle. See note below.	430 kc.	Depress any station-selector push button.	Adjust for minimum output.	Adjust for minimum output.	TC400—IF trap
3	Same as step 2.	1605 kc.	Depress manual push button. Set dial at extreme high frequency setting.	Adjust for maximum output. (C410 is mounted on TC403 and is accessible through bottom case cover.)	Adjust for maximum output. (C410 is mounted on TC403 and is accessible through bottom case cover.)	C410—osc. trimmer
4	Same as step 2.	1400 kc.	Depress manual push button. Tune to signal.	Adjust, in order given, for maximum output.	Adjust, in order given, for maximum output.	C400B—aerial series C403A—IF shunt
5	Same as step 2.	580 kc.	Depress manual push button. Tune to signal.	Adjust for maximum output while rocking tuning control.	Adjust for maximum output while rocking tuning control.	TC403—osc. shunt
6	Repeat steps 3, 4 and 5 until no further improvement is obtained.					
7	Same as step 2	1200 kc.	Depress push button 5, high frequency selector, to signal at 1200 kc.	Adjust for maximum output.	Adjust for maximum output.	C400A push button aerial series
8	After installing aerial in car and connecting aerial, depress manual push button and tune to a weak station at or near 1400 kc. Then depress any station-selector push button, tune it to a weak station at or near 1200 kc., and adjust aerial series trimmer C400A for maximum output.					

Figure 6. Top View of Chassis, Showing Trimmer Locations

Figure 6. Top View, Showing Trimmer Locations