GROUP 11 RADIO, HEATER, AIR CONDITIONER

SECTIONS IN GROUP 11

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SECTION 11-A RADIO

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NOTES

11-1 BUICK RADIO DESCRIPTION AND OPERATING INSTRUCTIONS

a. Description

The Buick radio installation consists of a receiver set with built in speaker mounted at the center of the instrument panel, and a sectional antenna mounted on left front fender, and suppression parts installed at various locations to eliminate interference. The Selectronic radio installation also includes a foot control switch mounted on the toe panel to left of the brake pedal. Some installations may also include a separate speaker mounted on the shelf behind the rear seat.

The Sonomatic radio receiver has five push buttons for push-tuning of five pre-selected stations. In addition to the push buttons, a control knob permits manual selection of other stations.

The Selectronic radio receiver contains an automatic signal-seeking tuner by which the operator can change stations by merely depressing the single selector bar on the receiver, or

the foot control switch on the toe panel. The seeking operation is a uni-directional sweep of the broadcast band from low to high frequency with nearly instantaneous return. The tuning mechanism is driven by a spring loaded mechanical motor which is stopped on station by a triggering circuit actuated by voltage developed from an incoming signal. The number of stations on which the tuner will stop can be regulated by use of the sensitivity control knob on the receiver. In addition to the automatic tuning, a control knob permits manual selection of stations if desired.

All receivers have a terminal post on the output transformer to provide a connection to the rear seat speaker when this is installed on the rear compartment shelf.

A manual antenna which must be extended and retracted by hand is standard equipment. An electrically operated antenna is available as optional equipment. In the latter antenna, a motor drives friction pulleys against a nylon tape attached to the upper section of the antenna. A 3-position toggle switch on lower edge of instrument panel controls the motor, which will run in either direction. Pulling the switch handle back raises the antenna and pushing handle forward lowers the antenna. When the handle is released the switch returns to "Off" position.



Fig. 11-1—Receiver Controls—Selectronic Radio

b. Switch, Volume, and Tone Control Operation

CAUTION: The radio should be turned off while starting the engine because the vibrator may stick and be damaged if cranking motor is operated with radio turned on.

Clockwise rotation of the switch knob, to left of dial, turns the radio on, and further rotation increases the volume. Rotation clockwise of the tone control knob, behind the switch knob, to extreme "treble" position gives the full tone range which will reproduce speech very clearly and distinctly. Rotation counterclockwise toward "bass" diminishes brilliance and accentuates low notes. See figure 11-1.

When a rear seat speaker is installed, a separate speaker selector switch is mounted under the center of the instrument panel. The fully counterclockwise position of selector switch knob turns on the rear speaker only, the midway position turns on both speakers, and the fully clockwise position turns on the front speaker only.

c. Push Button Tuning Operation— Sonomatic Radio

To tune in the station for which the push button is set simply push the button in as far as possible. The button will move easily at start, then a slightly harder push is required to complete the travel. At end of button travel the tuner will rest at the station for which the button has previously been set as described in paragraph 11-3 (b).

d. Selective Tuning Operation— Selectronic Radio

NOTE: To insure adequate sensitivity for selective tuning of the Selectronic radio it is best to have antenna fully extended, or in any event to extend the antenna at least half way.

With the radio turned on, selective tuning of available stations is accomplished by depressing either the selector bar above the dial (fig. 11-1), or the foot control switch on toe panel to left of the brake pedal.

When the bar or switch is fully depressed and released the tuner will automatically move to the right and stop, accurately tuned, when it reaches the next station having adequate strength to stop it. The tuner will stop at a station having adequate strength even though the volume control is not turned up high enough for the station to be audible.

When the tuner reaches the right end of the dial it flies back to the left end and again starts moving to the right until it reaches a station having sufficient strength to stop it. By holding the selector bar or foot control switch down, unwanted stations or areas of the dial can be quickly passed over.

The number of stations on which the tuner will stop in selective tuning is regulated by manual setting of the sensitivity control knob, which is located behind the manual tuning knob to right of the dial. See figure 11-1. This is a step control having four positions. This control is in the circuit only while the tuner is seeking and does not affect the "on station" sensitivity of the receiver.

Turning the sensitivity control knob clockwise, in the direction of arrow marked "MORE," increases the number of stations that can be tuned in. Turning knob counterclockwise, in direction of arrow marked "LESS," decreases the number of stations by eliminating those having weak signal strength in the area where car is located. In the extreme "LESS" position of control knob the tuner usually will stop on the strong local stations only.

If the Selectronic tuner is operated in certain localities or buildings where a strong signal is not available, the tuner will automatically search the band from one end to the other without stopping. The sensitivity control knob should be turned clockwise to include more stations, and the antenna should be fully extended when this condition is encountered.

e. Manual Tuning Operation

The manual tuning knob is to right of the dial. See figure 11-1. On the Sonomatic radio, this knob may be used to tune in stations other than those for which the push buttons are set; it is also used when tuning to set the buttons for selected stations. On the Selectronic radio, the tuning knob may be used to tune in stations that are too weak to stop the electronic tuning mechanism.

When tuning manually, and particularly when setting up a station on one of the *Sonomatic* push buttons, careful adjustment of the tuning knob is essential to good radio reception.

On Sonomatic radio, if the program sounds screechy or distorted, it is probably caused by improper tuning and can be corrected by adjusting the tuning knob slightly. Since the low notes are more affected by tuning than the high ones, it is a good plan to tune the set to a point where the low notes are heard best and high notes are clear but not screechy. This point may be most readily found by listening to the background noise and tuning for the lowest volume and pitch of this noise. Turning the control knob back and forth until the station is almost lost on either side will enable the operator to hear the difference in reception and select the intermediate position giving best results.

11-2 RADIO TROUBLE DIAGNOSIS— ON CAR

The trouble diagnosis information in this paragraph is of a non-technical nature. It is intended as an aid in locating minor faults which can be corrected without a specialized knowledge of radio and without special radio test equipment. If the suggestions given here do not affect a correction, further testing should be done only by a trained radio technician having proper test equipment.

a. Radio Is Inoperative or "Dead"

- 1. Turn on the radio. The dial should light and the vibrator should buzz.
- 2. If dial does not light, disconnect the "A" lead cable and check the fuse located in the receptacle. If fuse is blown it may indicate a sticking vibrator; replace fuse and check vibrator, step 3. If fuse is okay check "A" lead cable for proper connection to single red terminal on fuse block. Check cable for open circuit. If source of trouble has not been found, remove receiver for test by a trained radio technician.
- 3. If vibrator does not buzz when fuse is okay, remove receiver cover and tap the vibrator. If

vibrator starts after tapping, or after installation of a new fuse, let it run for about 15 minutes and then check for any tendency of vibrator to stick by turning radio on and off repeatedly.

Replace the vibrator if it will not start or has a tendency to stick. Replace vibrator if it buzzes unevenly or is exceptionally loud.

4. If fuse, vibrator, and tubes are satisfactory, substitute a test antenna consisting of a piece of wire about 10 feet long connected to a standard antenna lead-in cable. Place test antenna outside and away from the car. If radio operates near normal with substitute antenna, some part of car antenna or lead-in is at fault.

Lead-in wire may be checked for "grounds" by removing lead-in cable connector from radio receiver and checking with an ohmmeter from connector tip to car body. This check should show an entirely "open" circuit. CAUTION: Do not check with a lamp or any device drawing current, since the conductor inside loom is only .010" in diameter and will burn off easily if grounded.

- 5. If source of trouble has not been found remove the receiver and check the tubes by replacing one at a time until the bad one is located, or test the tubes with a reliable checker if available.
- 6. If radio is still inoperative it should be tested by a trained radio technician.

b. Radio Reception Is Weak

- 1. Fully extend the antenna and turn on radio. Turn volume control to maximum position and tune across the dial.
- 2. If reception seems just slightly weak, tune in a station having good volume for listening and grasp the antenna rod with your hand. If volume increases adjust the antenna trimmer (par. 11-3). If volume decreases proceed with the following steps.
- 3. Substitute a test antenna as described in subparagraph a, above.
- 4. Open the receiver and check for weak tubes by replacing one at a time until the faulty one is located, or test the tubes with a reliable checker if available. If this does not reveal source of trouble, remove the receiver for test by a trained radio technician.

c. Radio Noisy with Car Standing Still

- 1. Close and securely latch hood before checking for noise.
 - 2. Start engine, turn on radio and tune radio

to a spot between stations. Engine noise will usually appear in radio as a clicking sound that varies in frequency with speed of engine. If noise is present disconnect antenna lead-in cable from receiver.

- 3. If engine noise stops when antenna is disconnected, check all high tension wires for full seat in sockets of coil and distributor cap. Check distributor rotor (resistance type) by substituting a known good one.
- 4. If distributor rotor does not correct the noise, check antenna lead-in cable shield and motor lead shield (electric antenna) for proper ground (par. 11-4). Also check hood ground clip.
- 5. If engine noise continues with antenna disconnected, check ignition coil and generator capacitors for clean, tight connections; also check the bond strap between engine and cowl to make sure that it has clean tight connections at both ends. Observe generator armature and brushes; if sparking is excessive, check for open armature.
- 6. If source of noise has not been found, replace ignition coil and generator capacitors with known good ones. Ignition coil capacitor lead must be attached to battery terminal of coil. Generator capacitor lead must be connected to "A" terminal of generator. Regulator capacitor must be connected to "BAT" terminal of regulator. All capacitors must have clean metal ground contact.

d. Radio Noisy with Car Moving at High Speed

- 1. Turn on radio and check for engine noise as described in subparagraph c above. If engine noise is present, correct as outlined.
- 2. Drive over different types of roads, especially macadam, with radio on and tuned between stations. Listen for presence of wheel or tire static. In mild form this static shows up as a click in radio that increases with speed; when more severe it shows up as heavy static or a constant roar. The surface of the road determines the strength of static discharge. Wheel or tire static very seldom occurs on dirt or gravel roads.
- 3. If wheel or tire static is present, apply brakes lightly and if noise decreases check front wheels to see that static collectors have been properly installed and make sure that all grease has been wiped off contacts.
 - 4. In certain cases of wheel or tire static, the

front wheel static collectors alone may not completely eliminate all noise from this source. Static Eliminator Powder, available through G.M.P.D. parts warehouses under Group 9.674, may be used in cases where proper conditioning of static collectors does not remedy tire static. An injector for installing the powder is also available under the same group number. This powder equalizes the positive and negative charges developed by the tire, thus neutralizing the corona effect and eliminating radio interference difficulties from this source.

e. Radio Noisy on Rough Road

- 1. Turn on radio and check for engine noise as described in subparagraph c above. If engine noise is present, correct as outlined.
- 2. Jar the receiver by striking the case with heel of hand, or a rubber mallet. If this produces noisy reception, remove receiver cover and tap each tube with handle of screwdriver until noisy tube is found. Make sure that all tubes are firmly pressed into sockets. If this does not correct the noise, remove receiver for test by a trained radio technician.
- 3. If noisy reception is not produced when receiver is jarred, fully extend antenna and turn radio volume control on full. If noise appears in speaker check antenna and lead-in wire for loose connections. If wiggling lead-in does not cause noise, rap antenna rod with insulated end of screwdriver; if noise then appears, check antenna for shorting to car body or corrosion between antenna sections.

f. Radio Noisy When Car Equipment is Operated

When excessively loud "clicks" and "pops" are heard in the radio due to the operation of directional signals, brake lights, power seats or power windows, all ground connections to the radio antenna and lead-in wire should be thoroughly checked. A poor ground connection at any point can produce the above trouble.

g. Electric Antenna Operates too Slow

- 1. If operation of antenna to full up or down position is slower than 12 seconds check for dirty, corroded, or bent antenna sections.
- 2. If antenna sections are clean and straight and operation is still too slow, check all wiring including ground connections to cowl; also check for defective control switch.
 - 3. If cause of slow operation has not been

found, remove antenna and check for defective tube and nylon assembly or defective motor.

h. Electric Antenna Does Not Operate

- 1. If antenna fails to operate and motor does not operate as indicated by deflection on charge indicator, then check fuse, all wiring including ground connection to cowl; also check for defective control switch.
- 2. If motor still does not operate, or new fuse blows out, either the motor or its leads are faulty and must be repaired or replaced.
- 3. When motor operates but antenna will not raise or lower, then check for dirty corroded or bent antenna sections.
- 4. If antenna still fails to operate it will be necessary to remove antenna from car, disassemble large body tube from motor assembly and check for defective antenna tube and nylon assembly, or defective motor.

11-3 RADIO ADJUSTMENTS-ON CAR

When making the adjustments covered in this paragraph it is essential to have the car in a location that is as free as possible from outside interference.

a. Antenna Trimmer Adjustment

An antenna trimmer adjustment is provided for matching the antenna coil in the receiver to the car antenna. This adjustment must always be made after installation of receiver and antenna, or after any repairs to these units. The adjustment should also be checked whenever the radio reception is unsatisfactory.

- 1. Raise antenna to maximum height.
- 2. Tune radio to a station between 600 and 1000 K.C. that can barely be heard with volume turned full on.
- 3. Remove left ash tray. Insert a screwdriver through the opening and into left side of receiver adjacent to the lead-in cable (fig. 11-2). Carefully turn the trimmer screw back and forth until a position is found that gives maximum volume.

b. Setting Push Buttons to Desired Stations

- 1. Turn on the radio.
- 2. Pull button to left and all the way out.
- 3. Carefully tune in the desired station manually, then push the button all the way in.
- 4. Move dial pointer away from the selected station and push the button to make certain the station will be properly tuned in.

5. Turn tuning knob back and forth to make certain that best tuning is obtained with the push button. If best tuning is not obtained, repeat steps 2, 3, 4.

11-4 RADIO INSTALLATION INSTRUCTIONS

If radio parts are removed from car for any reason, the following instructions must be carefully observed to insure proper reinstallation and satisfactory operation. These instructions cover reinstallation only; if an original installation is to be made carefully follow instructions contained in the parts package, particularly with reference to cutting holes in sheet metal and trim.

IMPORTANT: The standard Buick antenna is matched with the receiver within the range of the trimmer adjustment. Other antennas may not match the receiver within the range of the trimmer adjustment; therefore the use of other than a standard Buick antenna is not recommended.

a. Installation of Receiver

- 1. Cover the push buttons or selector bar with friction tape to prevent damage while installing receiver.
- 2. If rear seat speaker is used, remove back cover of receiver and insert the two-wire cable from the speaker selector switch through a vent hole in bottom of receiver, pushing the rubber grommet into place in vent hole. Connect wires to the receiver and reinstall receiver cover.

CAUTION: Carefully support receiver until it is installed, to avoid straining the wire connections to speaker selector switch.

- 3. Install receiver by sitting in front seat and holding receiver at arm's length while the two threaded bushings are inserted through control holes in instrument panel. Install and tighten hex nuts on bushings.
- 4. Start cap screws with lockwashers and large flat washers into both sides of receiver through slotted holes in support brackets, then pull receiver so that rubber gasket at speaker opening is compressed against instrument panel, and tighten cap screws securely.
- 5. Install tone control knob and volume control knob with felt washer on shaft to *left* of the dial. Install dummy knob (Sonomatic) or sensitivity knob (Selectronic) and tuning control knob with felt washer on shaft to *right* of dial.

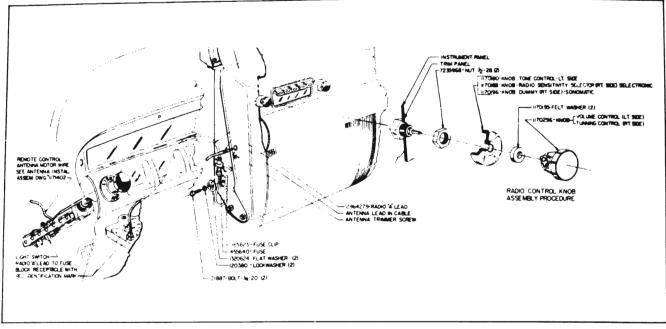


Figure 11-2—Receiver Installation

See figure 11-2.

CAUTION: Make sure that spring clips on outer knobs properly engage flats on control shafts.

- 6. Connect the "A" lead cable to the red terminal on the fuse block. Never connect to any other terminal. Install proper fuse (par. 10-5, b) in fuse holder and connect "A" lead cable to lead at left lower corner of receiver. Install fuse holder in clip on support bracket. See figure 11-2.
- 7. Connect antenna lead-in wire to receiver, then make antenna trimmer adjustment (par. 11-3).
- 8. If *Selectronic* foot control was disconnected or removed, reinstall with cable running up behind left edge of steering column pad. Plug cable into receiver and attach it to clip on receiver cover. See figure 11-2.

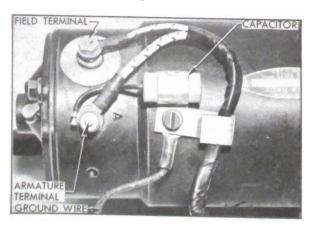


Figure 11-3—Capacitor Mounted on Generator

b. Installation of Interference Suppression Parts

Figure 11-3 shows proper installation of the capacitor on generator and figure 11-4 shows proper installation of the capacitor on generator regulator, to prevent interference caused by these units. Note that the capacitor lead is connected to the armature ("A") terminal of generator and to the "BAT" terminal of regulator. Capacitors must never be connected to the field ("F") terminal of either unit as this will cause bad pitting of the voltage regulator points, thus preventing it from operating properly.



Figure 11-4—Capacitor Mounted on Generator Regulator

The standard distributor rotor contains a 10,000 ohm resistor.

The coil capacitor is mounted on the coil bracket and the lead is connected to the battery positive (+) terminal of coil. See figure 10-41.

If capacitor is connected to the distributor negative (-) terminal excessive pitting of distributor contact points will result.

A static collector is installed in each front wheel hub cup. For good results the cup and the center of steering knuckle spindle must be clean and free from grease. The center of static collector is made of self-lubricating material.

In addition to the items mentioned above, a bond strap is connected between the cowl and the right rear corner of the engine, and a hood ground clip is located on fender to bear on left rear corner of the hood.

c. Installation of Manual Antenna

1. When antenna is being installed on a new fender, make a template from the old fender to properly locate the hole for the body tube. A template may be obtained from an antenna parts package, if available.

- 2. Remove burr from hole cut in fender and clean under surface of fender around hole for good ground contact of antenna, then insert pad in hole.
- 3. Loosely assemble antenna mounting support to inner face of bracket.
- 4. Connect antenna lead-in cable to the antenna assembly, tighten securely, then insert antenna assembly through pad from under fender, with antenna lead-in connector pointing toward front of car. NOTE: Do not use soap or grease in this operation. See figure 11-5.
- 5. Place adapter and mounting nut on antenna assembly over pad and tighten nut se-

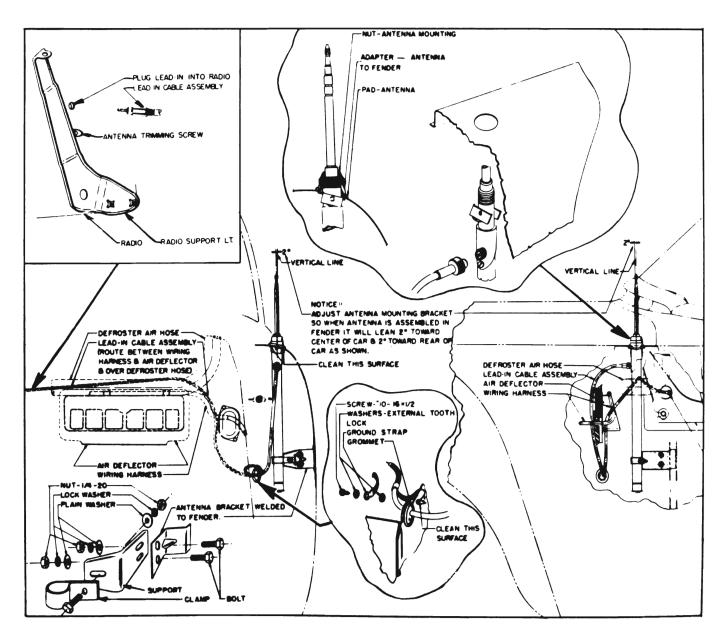
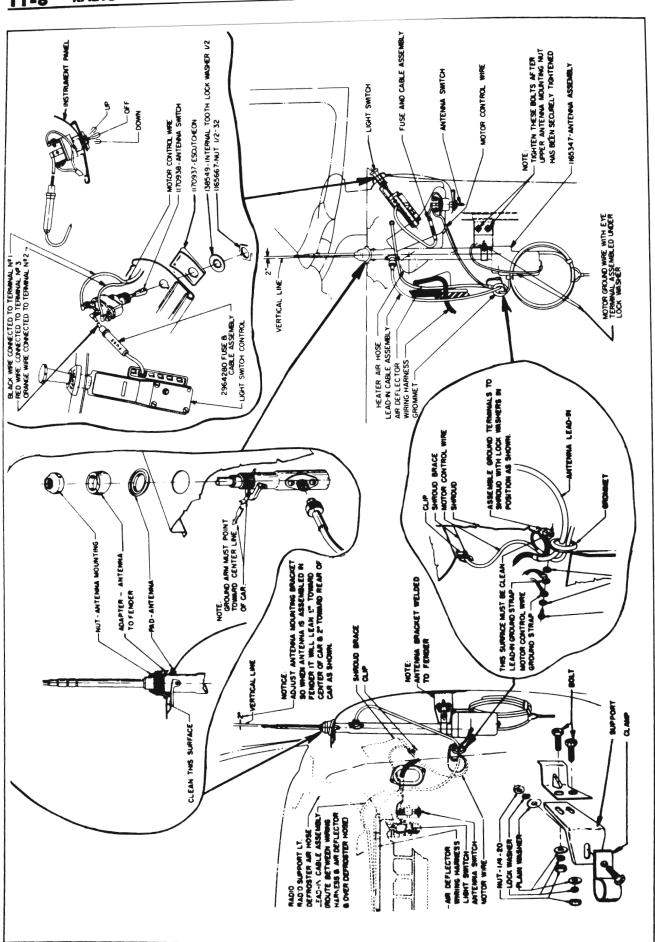


Figure 11-5—Manual Antenna Installation Details



curely, using Antenna Nut Wrench J 5185-1.

- 6. Connect antenna clamp (on body tube) to mounting support bracket, fully extend antenna, and adjust mounting support and clamp so that the antenna will lean two degrees rearward and two degrees inward from vertical. Tighten support and clamp securely. See figure 11-5.
- 7. Remove plug from hole provided in left side of cowl. Install grommet and thread lead-in cable through grommet until ground lead is inside body.
- 8. Loop cable around or behind instrument wiring harness where it enters cowl to left of air vent grille, over left defroster air hose and plug into left side of radio receiver through hole in left support bracket. NOTE: Do not use soap or grease in this operation.
- 9. Attach cable ground lead to cowl at hole provided. Be sure to clean paint from cowl surface at this point, then attach the lead terminal with a 10-16 x $\frac{1}{2}$ " tapping screw, with internal lockwashers placed on both sides of the terminal. See figure 11-5.

d. Installation of Electric Antenna

Figure 11-6 shows all necessary details for reinstalling the electric motor driven antenna. The installation procedure is very similar to that described for manual antenna (Subpar. c) except for the following points.

- 1. When inserting the antenna into the fender the top ground arm must be pointing toward the center of car.
- 2. Bring the motor wire through grommet in cowl with the lead-in cable and attach both ground leads to cowl with a 10-16 x $\frac{1}{2}$ " tapping screw, with internal lockwashers on both sides of terminals.
- 3. Snap clip on to bottom edge of diagonal cowl brace and place motor wire in clip.
- 4. Connect black wire to No. 1 terminal, orange wire to No. 2 terminal, fuse and cable assembly to No. 3 terminal of antenna control switch.
- 5. Insert antenna switch into hole in lower flange of instrument panel and install escutcheon, lockwasher and nut.
- 6. Connect fuse and cable assembly to vacant red terminal of lighting switch.

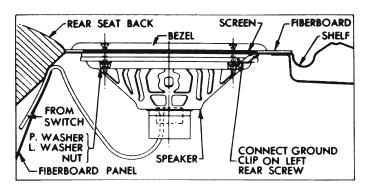


Figure 11-7—Rear Seat Speaker Installation

7. Check antenna for travel time from fully retracted to fully extended positions. If time is more than 12 seconds check connections at both switches. If antenna still operates too slow, or is inoperative, refer to paragraph 11-2 (subpar. g, h).

e. Reinstallation of Rear Seat Speaker

If rear seat speaker is removed for any reason, be sure to reinstall the speaker, fiber board, screen, and bezel as shown in figure 11-7. Place one terminal of the black ground wire under the right rear speaker mounting nut. The other end of ground wire is attached to adjacent body metal panel with a screw and a shake proof washer placed between terminal and body panel.

11-5 RADIO SERVICE PARTS— ALIGNMENT PROCEDURES

a. Service Parts

Service parts for Buick radios are marketed through United Motors Service and are listed in auto radio bulletins obtainable through U.M.S. branches.

b. Alignment Procedures

The radio receiver should be functioning before the various aligning adjustments are made. Trouble shooting, if necessary, should precede the final adjustment. Under no circumstance should alignment be attempted without calibrated test oscillator and output meter, or by untrained personnel.

The alignment procedures must be rigidly adhered to and all adjustments must be made in the order given.

Sonomatic Radio Alignment Procedure

This procedure applies only to the Model 981707 radio.

See figure 11-10 for location of the adjustment screws indicated.

Output Meter Connections Across Voice Coil	Volume Control Position
Generator Return To Receiver Chassis	Tone Control Position
Dummy Antenna	Generator Output N

Volume Control Position Maximum Volume
Tone Control Position
Generator Output Minimum for Readable Indication

Steps		Series Condenser or Dummy Antenna	Connect Signal Generator to	Signai Generator Frequency	Tune Receiver to	Adjust in Sequence For Max. Output
1	(12-Volt)	0.1 mfd.	12 BE 6 GRID (Pin #7)	262 KC	High Frequency Stop	A, B, C, D
2	(:,	0.000082 mfd.	Antenna Connector	1615 KC	High Frequency Stop	*E, F, G
3		0.000082 mfd.	Antenna Connector	1000 KC	Signal Generator Signal	J, K
4		0.000082 mfd.	Antenna Connector	1615 KC	High Frequency Stop	F, G
5		0.000082 mfd.	Antenna Connector	1000 KC	Signal Generator Signal	L**

*Before making this adjustment check mechanical setting of oscillator core "H." The rear of the core should be 125/32" from the mounting end of the coil form. (This measurement is readily made by inserting a suitable plug in the mounting end of the coil form.) Core adjustments should be made with an insulated screw driver, and core studs should be cemented in place with glyptal or household cement after alignment.

**L is the pointer adjustment screw which is on the connecting link, between the pointer assembly and the parallel guide bar. It should be adjusted so that the dial pointer corresponds with the 1000 KC mark on the dial. (On first "0" of "100.")

With the radio installed and the car antenna plugged in adjust the antenna trimmer "G" for maximum volume with the radio tuned to a weak station between 600 and 1000 KC (see sticker on case).

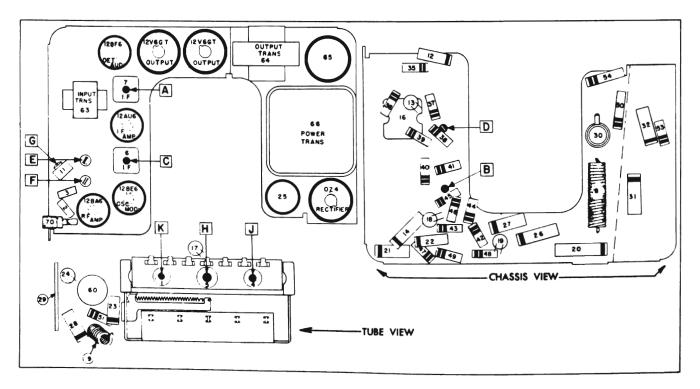


Figure 11-8—Parts Layout—Model 981707

Selectronic Radio Alignment Procedure

This procedure applies only to the Model 981708 radio.

See figure 11-11 for location of the adjustment screws indicated.

Output Meter Connection...VTVM from AVC to chassis (see fig. 11-14, Tube View)

Volume Control		Maximum	Volume
Tone Control			Treble
Compandon Output	Not to ores	O	177TY1784

Stop	Dummy Antenna	Connect To	Signal Generator Frequency	Tune Receiver To	Adjust in Sequence for Output Indicated
1	0.1 mfd	12BE6 Grid (Pin 8)	262 KC	*High Frequency Stop	A, B, C (Max.)
2	0.1 mfd	12BE6 Grid (Pin 7)	262 KC	High Frequency Stop	D (Min.)
3	0.000082 mfd	Antenna Connector	1615 KC	High Frequency Stop	**E, F, G (Max.)
4	0.000082 mfd	Antenna Connector	600 KC	Signal Generator Signal	J, K (Max.)
5	0.000082 mfd	Antenna Connector	1615 KC	Signal Generator Signal	F, G (Max.)
6	0.000082 mfd	Antenna Connector	1000 KC	Signal Generator Signal	***L

NOTE: When aligning, be sure to use a vacuum tube voltmeter as indicated and be sure to follow the alignment sequence given-(Notice that the primary of the 2nd. I.F. is aligned first).

*To tune to high frequency, put a 0.070" feeler gauge (or bare #13 wire) in slot against the high frequency stop. Depress station selector bar and allow the planetary arm to run against the feeler gauge. Turn the radio off and then back on.

**Before making this adjustment, check the setting of oscillator core "H." The rear of the core should be $1^{25}/_{32}$ " from the mounting end of the coil form. This measurement is readily made by inserting a suitable plug in the mounting end of the coil form. The core adjustment is made

from the mounting end of the coil form with an insulated screwdriver. (It will be necessary to steady the core guide bar while making these adjustments. This can be done by applying a downward pressure on the guide bar at the antenna coil end.) If this adjustment is necessary, first dissolve the glyptal seal on the core stud and be sure to re-seal after making the adjustment.

***"L" is the pointer adjustment screw on the end of the core guide bar—adjust so pointer reads 1000 KC.

With the radio installed and the antenna plugged in, adjust the antenna trimmer "G" for maximum volume with the radio tuned to a weak station between 600 and 1000 KC (see sticker on case).

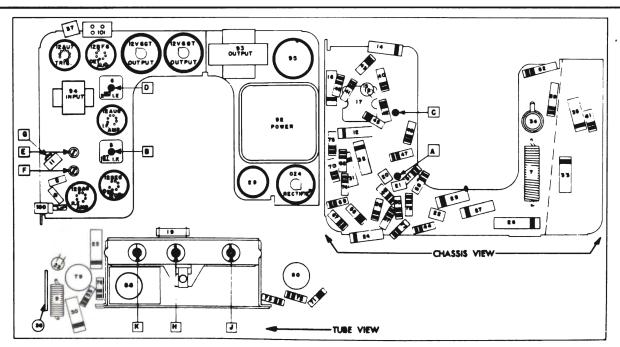
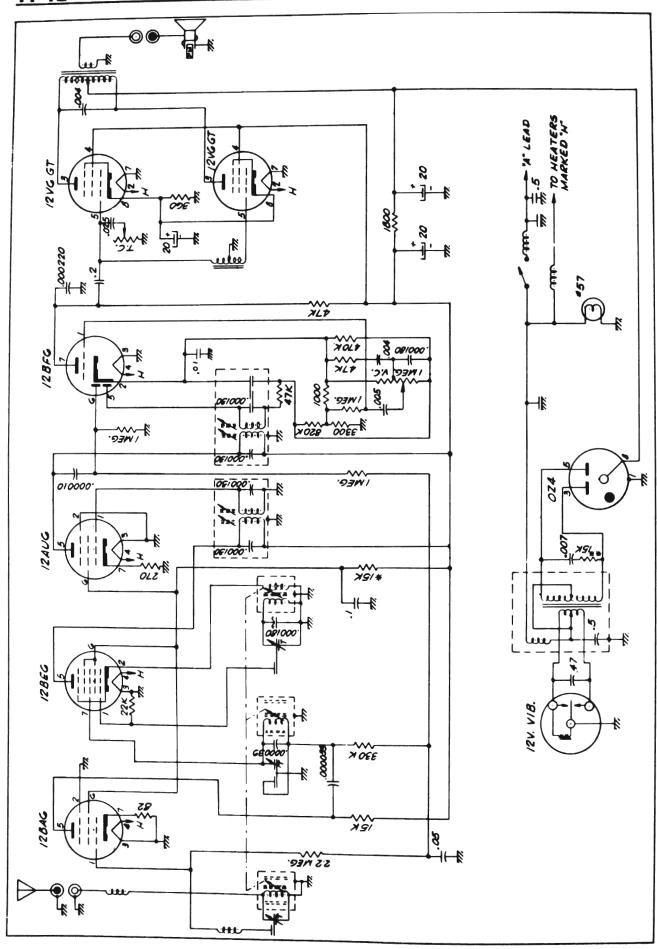


Figure 11-9—Parts Layout—Model 981708





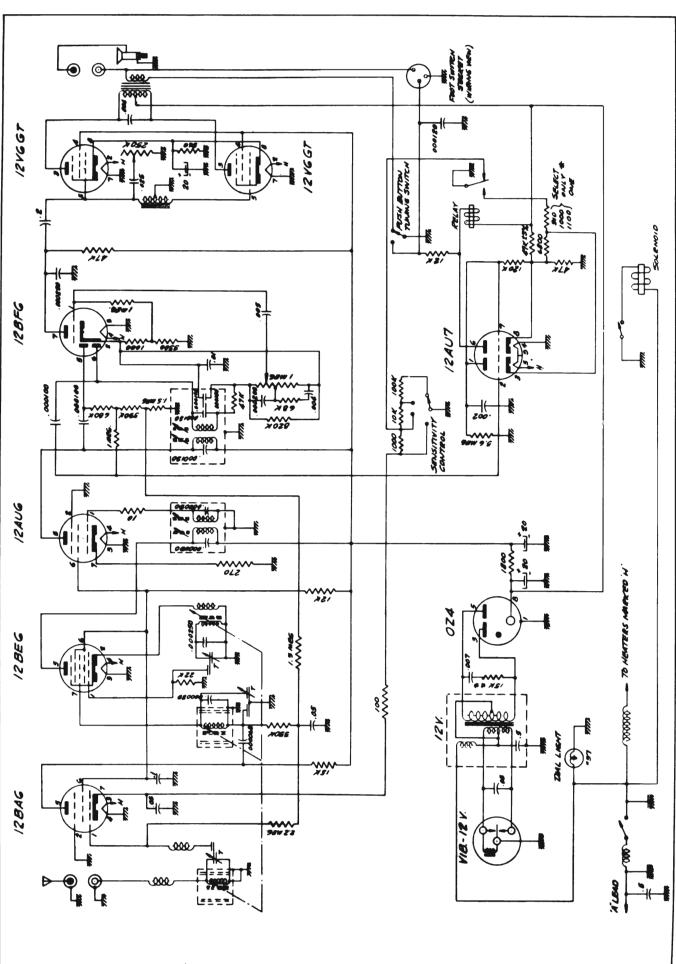


Figure 11-11—Radio Circuit Schematic—Model 981708