

BUICK

Buick All Models (Exc. Skyhawk)

NOTE — For Skyhawk, see General Motors "H" Body in this section.

CAUTION — If equipped with Air Cushion Restraint System, turn ignition key to lock, disconnect battery ground cable and tape end before servicing instrument panel components. This must be done to prevent accidental release of A.C.R.S.

DESCRIPTION & OPERATION

Fuel Gauge — System consists of dash and tank units which are energized only with the ignition "ON". A balanced gauge pointer is moved by the changing resistance in the tank variable rheostat float mechanism, through a resistor, empty coil, full coil and bucking coil to ground.

Oil & Temperature Indicators — Indicator circuits are open until oil pressure switch or coolant temperature switch completes the circuit to ground. Oil indicator will be switched on if oil pressure drops below a safe level and temperature indicator will be turned on with coolant temperature above 258°F.

Alternator Indicator — Indicator light should be on with ignition turned to "ON" and before the engine is started. Once engine is started and is accelerated above 900 RPM, light should go off and remain off.

TESTING

Use a suitable gauge tester (J-22344) to check gauges, circuits and sending units. Repair or replace gauge, wires or sending unit as required.

ADJUSTMENT

STOP LIGHT SWITCH

Skylark — With pedal depressed $\frac{3}{8}$ to $\frac{5}{8}$ " from released position, adjust switch in or out to obtain electrical contact.

All Others — With pedal in released position, adjust switch in or out so switch plunger is fully depressed against brake pedal arm.

REMOVAL & INSTALLATION

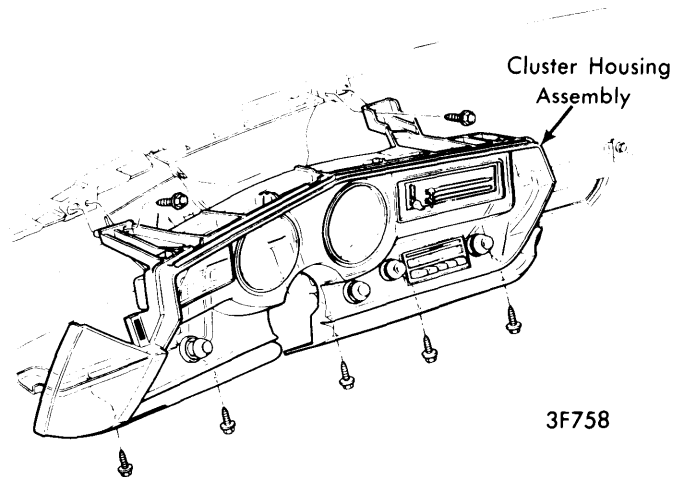
HEADLIGHT SWITCH

Century Series, Regal & Skylark — Remove negative battery cable and if equipped with air conditioning, remove left A/C duct from under instrument panel. Pull out switch knob to last notch and remove knob by depressing button on side of switch. Remove electrical connector and escutcheon from switch and remove switch.

Electra Series, Le Sabre Series & Riviera — Remove negative battery cable and left instrument panel trim plate. Remove three switch bracket retaining screws, lift switch out and remove electrical connector. Pull out switch knob to last notch and remove knob by depressing button on side of switch. Remove escutcheon and switch-to-bracket retaining nut and separate switch from bracket.

INSTRUMENT PANEL & CLUSTER

Century Series & Regal — Disconnect battery ground cable and tape end. Remove glove box door, glove box, and right trim plate. Remove four instrument panel housing-to-cover screws. Disconnect front speaker connector from radio. Pull instrument panel cover rearward on left side to disengage retaining clips. On right side, cover must be pulled downward while pulling rearward. Pry cluster trim plate from panel if equipped. Disconnect heater-air conditioning cables and connections from control head. Disconnect speedometer cable and necessary wiring connectors. Remove radio knobs and two retaining nuts. Remove instrument panel housing screws and remove panel. To install, reverse removal procedure.

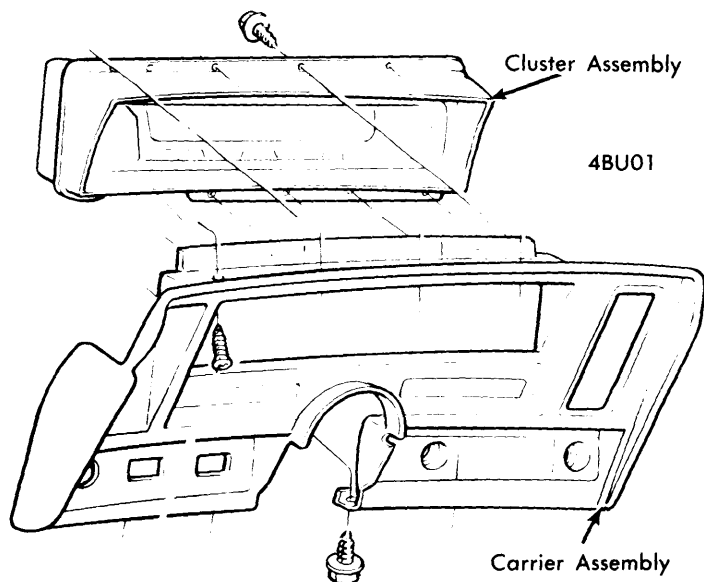


CENTURY, REGAL INSTRUMENT PANEL

Skylark — Disconnect battery ground cable. Remove glove box. Remove upper air conditioner extension and lower outlet at center of panel; remove upper center outlet nozzle, adapter, and flex hose to right side outlet (if equipped). Remove panel pad nuts above glove box and ash tray; remove right side pad screw near pillar post. Remove upper carrier screws and left side carrier screw near left pillar post. Remove steering column cover, disconnect shift quadrant indicator cable at shift bowl (if automatic transmission). Remove steering column nuts at panel and lower carrier screws. Remove radio knobs, bezels and nuts. Remove two lower heater or air conditioner control screws. Remove toe plate cover and toe plate-to-cowl screws and lower steering column. Disconnect speedometer cable and pull carrier assembly rearward. Separate cluster from carrier as required. To install, reverse removal procedure.

Switches, Gauges & Speedometers

BUICK (Cont.)



each end of cover, six screws along lower edge of cover and two top outboard cluster bezel-to-cover screws. Reach through glove box opening, disconnect hose to air conditioning aspirator (if equipped) and glove box lamp, then release right cover-to-cowl clip, lift and pull cover outward. Disconnect speaker wire and remove cover assembly. To install, reverse removal procedure.

GAUGES & SPEEDOMETERS

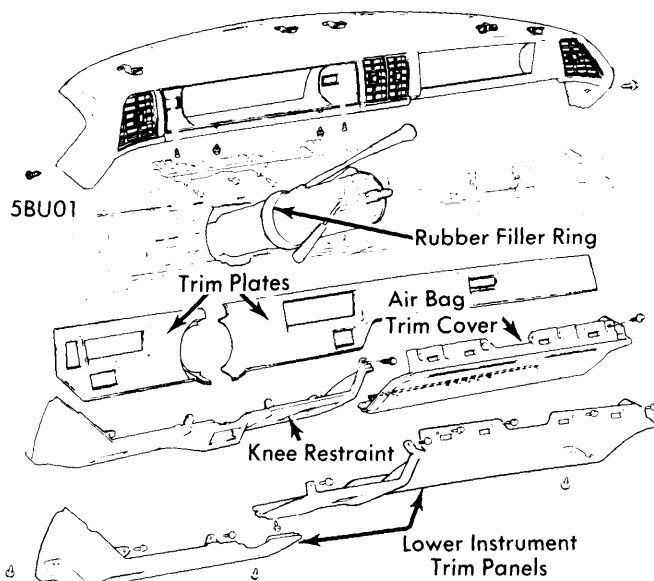
Century Series & Regal — Position shift lever in "L" and disconnect shift indicator cable from steering column. Carefully pry out trim plate. Remove gauge or speedometer retaining screws, disconnect speedometer cable and/or disconnect wire connectors. To install, reverse removal procedure.

Skylark — With instrument cluster removed, remove screws retaining cluster assembly rear cover. Bend ground strap away and remove from cover. Remove speedometer retaining screws and remove speedometer from cover. To install, reverse removal procedure.

SKYLARK INSTRUMENT PANEL

Electra Series, Le Sabre Series & Riviera — Remove glove box door hinge screws, six glove box retaining screws and glove box. Remove trim plates by prying them out after sliding rubber fill ring up onto steering column. To remove panel cover, disconnect negative battery cable, remove one screw at

Electra Series, Le Sabre Series & Riviera — Remove screws along top and bottom of cluster bezel and two screws from lens. Remove speedometer by removing retaining screws and pulling speedometer head out of cluster housing. Shift quadrant can be removed after removing right trim panel, speedometer and shift quadrant cable. Fuel gauge can be removed after speedometer is removed by removing screws retaining fuel gauge and pulling gauge from cluster housing.



ELECTRA SERIES, LE SABRE SERIES & RIVIERA INSTRUMENT PANEL COMPONENTS

PRINTED CIRCUITS

Century Series & Regal — Remove speedometer or fuel gauge as previously outlined. Remove three screws and five light sockets to remove speedometer cluster printed circuit. Remove eight nuts, one or three resistors (as equipped), two screws and four light sockets to remove the tell-tale and fuel gauge cluster printed circuit. To install, reverse removal procedure.

Skylark — Remove instrument cluster, and illumination and indicator lights from cluster housing. Remove fuel gauge and clock terminal nuts securing printed circuit to housing. Remove four screws retaining printed circuit to cluster housing and remove printed circuit. To install, reverse removal procedure ensuring all attaching screws are replaced, so grounding circuit will be secured.

Electra Series, Le Sabre Series & Riviera — Remove instrument panel cover and disconnect wire connectors from rear of cluster housing. Remove fuel gauge, shift quadrant and cluster housing insert. Remove printed circuit. To install, reverse removal procedure.