

3-60 Switches, Gauges & Instrument Panels

OPEL

INSTRUMENT CLUSTER

Disconnect battery ground cable and remove steering wheel. Disconnect speedometer cable, remove wing nut and instrument cluster retaining screws. Rotate cluster outward, disconnect two electrical connectors and remove instrument cluster. To install, reverse removal procedure.

SPEEDOMETER & GAUGES

Speedometer and all gauges can be removed after first removing instrument cluster.

STOP LIGHT SWITCH

Mechanical, mounted on brake pedal bracket.

PORSCHE

INSTRUMENT CLUSTER

924 Models — Disconnect battery and remove center console. Remove screw in glove compartment and detach side padding plates. Loosen instrument panel mounting under loudspeaker insert. Remove side metal screws and steering wheel. Loosen steering column switch mounting screw and remove switch. Remove instrument panel.

SPEEDOMETER, TACHOMETER & GAUGES

924 Models — Disconnect battery. Put hand underneath instrument panel to back of instrument to be removed. Press instrument forward out of instrument panel. Disconnect wiring or speedometer cable.

NOTE — Remove tachometer and combination gauge before removing speedometer.

911 Models — Connecting terminals and wires of all instruments are accessible from luggage compartment side of instrument panel after luggage compartment carpet is removed.

1) Disconnect and detach all cables and wire from instrument that is to be removed. In case of speedometer, also remove drive shaft knurled nut and withdraw shaft from speedometer.

2) Remove small knurled nuts securing instrument, remove retaining clamp and take instrument out from passenger compartment side.

TURN SIGNAL FLASHER (911 MODELS)

Flasher is located adjacent to fuse block in luggage compartment, and is a plug in type.

STOP LIGHT SWITCH

To adjust switch, loosen jam nut and adjusting screw. Clamp a piece of sheet metal .16" (4 mm) thick between brake pedal lever and pedal stop at brake pedal center. Turn adjusting screw until brake lights operate. Remove switch and lock adjusting screw. Reinstall switch and check switch operation.

RENAULT

INSTRUMENT CLUSTER

R-5 Models — Disconnect battery cable and speedometer cable in engine compartment. Unclip instrument panel cowl and remove. Press left and right side clips until support plate is cleared and remove instrument panel. Disconnect two electrical junction blocks and speedometer cable.

R-12 Models — Disconnect battery and two junction blocks on cluster. Disconnect speedometer cable. Lift the two retaining clips and pull cluster out, freeing mounting lugs from holders.

R-17 Models — Disconnect battery. Unscrew two knurled nuts on fuse block bracket and tilt it. Unscrew four retaining clip

screws (located in each corner of cluster) by first removing radio speaker grill to gain access to right hand screws. Insert a screwdriver between cluster and instrument panel to free inside clip located at bottom center of cluster. Pull out cluster and disconnect all wiring and speedometer cable.

SPEEDOMETER & GAUGES

Speedometer and all gauges may be removed after instrument cluster is removed.

STOP LIGHT SWITCH

Mechanically operated switch attached to the steering column.

SAAB

INSTRUMENT CLUSTER

99 Models — Remove safety padding. Remove four self tapping screws. Disconnect speedometer cable and wiring. Remove bulb holders. Lift out instrument cluster.

SPEEDOMETER & GAUGES

99 Models — Speedometer and all gauges may be removed after first removing instrument cluster.

TURN SIGNAL FLASHER

Located under instrument panel on left hand side of steering column.

STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket.