

PORSCHE (Cont.)

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-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-15 & 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.

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.

SUBARU**INSTRUMENT CLUSTER**

1) Remove radio knobs and nuts. Remove ashtray, then remove bolt in ashtray opening. Remove lighting and wiper switch knobs and nuts, heater shutter control knobs, heater control knobs and hanger spring for speedometer cable.

2) Disconnect speedometer cable and wiring harness plug from back of cluster. Disconnect wiring to cigarette lighter (if equipped). Remove cluster from instrument panel.

SPEEDOMETER & GAUGES

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

TACHOMETER

To remove tachometer, remove meter visor by removing two screws. Remove tachometer mounting screws, disconnect wiring harness and remove tachometer.

HAZARD WARNING & TURN SIGNAL FLASHER

Located under instrument panel.

STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket. Adjust switch so there is .24-.55" (6-14 mm) free pedal movement before switch turns on brake lights.

TOYOTA**INSTRUMENT CLUSTER**

Corolla — Disconnect battery and speedometer cable. Remove instrument panel center and right mouldings. Remove cluster securing screw and two nuts behind cluster. Slowly pull out instrument cluster and disconnect wiring.

Hi-Lux — Loosen steering column clamp bolts. Remove three screws securing cluster. Pull out cluster slightly and disconnect speedometer cable and wiring. Remove cluster.

Corona — Disconnect battery and remove instrument trim panel. Remove side ventilator knob and clock knob (if equipped). Loosen five bolts securing cluster housing. Disconnect speedometer cable and wiring and remove cluster.

Corona Mark II — 1) Remove steering column housing, heater and radio knobs. Loosen heater control illumination light and pull out slightly. Remove the nine screws securing cluster housing.

TOYOTA (Cont.)

2) Push up and out on safety pad and pull out cluster housing slightly. Remove heater light from cluster housing and remove housing toward the left.

3) Remove right and left hand instrument panel lower trim and ashtray. Remove meter control panel and side ventilator mounting screws. Remove radio and heater control wire mounting bracket bolts.

4) Remove six instrument cluster mounting bolts, pull out cluster slightly and disconnect wiring and speedometer cable. Remove cluster.

Celica — Remove heater knobs and heater control panel. Remove screws securing cluster trim panel and pull out lower part of trim panel. Disconnect all wiring from instrument cluster trim panel and remove panel. Disconnect speedometer cable and remove instrument cluster.

Land Cruiser — Disconnect speedometer cable and remove cluster attaching screws. On FJ 55 (Station Wagon) models only, remove steering column clamp attaching bolts. Pull out cluster, disconnect wiring and remove cluster.

SPEEDOMETER & GAUGES

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

INSTRUMENT CLUSTER

Spitfire — Disconnect battery and remove heater control knobs. Remove four screws and cup washers and lower cluster. Remove bulb holders, disconnect wiring and remove cluster.

TR7 — Remove radio speaker grill and top instrument panel trim pad. Remove steering column shrouds, loosen odometer reset knob and remove knob with cable. Loosen clock reset knob and remove with cable. Disconnect speedometer cable, remove retaining screws and pull out instrument cluster slightly. Disconnect all wiring and remove cluster.

TACHOMETER

All Exc. TR6 — Tachometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two knurled nuts, washers and clamps from back of unit. Remove tachometer from front of instrument panel.

SPEEDOMETER

All Exc. TR6 — Speedometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two knurled nuts, washers and clamps from back of unit. Remove speedometer from front of instrument panel.

TURN SIGNAL FLASHER

Carina, Celica & Corona — Mounted under right hand side of dash.

Corolla & Corona Mark II — Located on fuse block mounting bracket.

Hi-Lux & Land Cruiser — Located behind instrument cluster.

IGNITION SWITCH

Carina, Celica, Corona & Corolla — Remove upper and lower steering column covers. Set ignition key to "ACC" position and while pushing lock pin, remove key cylinder. Disconnect wiring and remove switch. Steering column lock may be removed using a screw extractor.

Hi-Lux & Corona Mark II — Disconnect battery and remove steering column cover. Disconnect wiring, remove switch mounting screw and remove switch.

Land Cruiser — Disconnect wiring and remove switch bezel using suitable wrench (09802-12010).

STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket.

TRIUMPH

INSTRUMENT CLUSTER

Spitfire — Disconnect battery and remove heater control knobs. Remove four screws and cup washers and lower cluster. Remove bulb holders, disconnect wiring and remove cluster.

TR7 — Remove radio speaker grill and top instrument panel trim pad. Remove steering column shrouds, loosen odometer reset knob and remove knob with cable. Loosen clock reset knob and remove with cable. Disconnect speedometer cable, remove retaining screws and pull out instrument cluster slightly. Disconnect all wiring and remove cluster.

TACHOMETER

All Exc. TR6 — Tachometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two knurled nuts, washers and clamps from back of unit. Remove tachometer from front of instrument panel.

SPEEDOMETER

All Exc. TR6 — Speedometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two knurled nuts, washers and clamps from back of unit. Remove speedometer from front of instrument panel.

GAUGES

All Exc. TR6 — All gauges may be removed after first removing instrument cluster.

TR6 — Gauges may be removed individually as follows: Disconnect wiring and remove bulb holder. On oil pressure gauge, disconnect oil line. Remove knurled nut, washer and clamp. Gauge may now be removed from front of instrument panel.

IGNITION SWITCH

Spitfire — Remove steering column. Remove switch cover and column anti-torque strap. Use a small chisel to unscrew two shear head bolts. If this fails, remove using a screw extractor. When installing switch, use new shear bolts.

TR6 — Remove speedometer and tachometer and disconnect wiring from ignition switch. Remove top half of steering column upper bracket and anti-torque strap. Remove column cover from underside of column and rotate column 180° to expose shear bolts. Use a small chisel to unscrew shear bolts. If this fails, remove bolts using a screw extractor. When installing new switch, use new shear bolts.

TR7 — Remove steering column shrouds. Use a small chisel to unscrew two shear bolts. If this fails, remove using a screw extractor. When installing switch, use new shear bolts.

STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket.