

# 10-14 Steering Wheel & Column Switches

## PORSCHE (Cont.)

**Installation** — To install steering wheel, reverse removal procedure and note the following: Lightly lubricate horn contact finger with electrical contact grease before reinstalling.

**Removal & Installation; 924** — Disconnect battery. Carefully pry off horn pad. Unscrew wheel retaining nut. Pull wheel upward and off the shaft. To refit wheel, reverse removal procedure.

### STEERING WHEEL COMBINATION SWITCH

**Removal; 924** — 1) Disconnect battery ground. Using hand pressure, lift up steering pad. Remove steering wheel mounting nut. Pull steering wheel off shaft.

2) Remove shroud from around switch housing. Pull up on switch plate and disconnect electrical wires. Remove entire switch assembly then, separate wiper/washer switch from turn signal switch by taking out screw that mounts them together.

**Installation** — Refit switches together with screw. Slide switch assemblies back into place refitting spacer at same time. Make sure spacer is driven in until there is a distance of 1.6" (41 mm) from face (top edge) of spacer to top edge of shaft. This distance will ensure there is .08-.15" (2-4 mm) between steering wheel and steering column switches. Reverse removal procedure to install remaining components.

### STEERING COLUMN LOCK, KEY CYLINDER & IGNITION SWITCH

**Removal** — 1) Remove combination switch as previously outlined.

2) Drill out shear bolts.

3) Disconnect ignition switch wiring.

4) Disengage snap ring and slide out switch housing with bearing.

5) Use a pointed tool (scribe) and push cylinder lock retainer in to release cylinder. With key inserted and retainer depressed, pull cylinder from housing.

6) Take out ignition switch set screw and pull ignition switch back out of housing.

**Installation** — To install, reverse removal procedure.

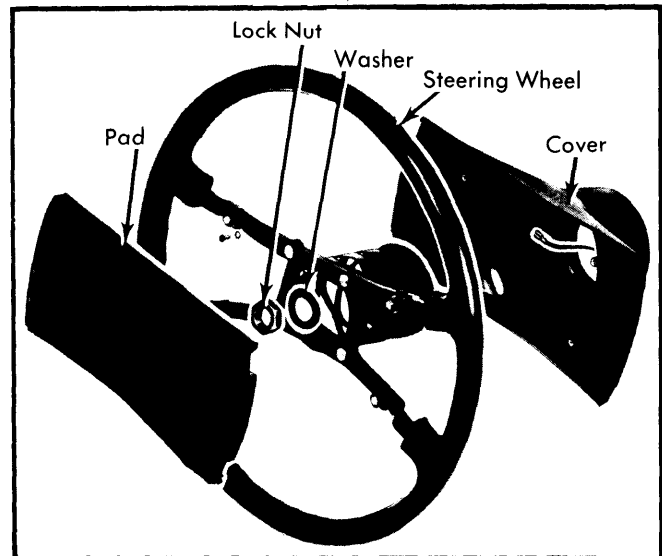


Fig. 1 Porsche 911 Steering Wheel and Related Components

## RENAULT

R-5  
R-15  
R-17

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

**Removal, All Models** — Disconnect battery. Remove horn pad. Unscrew steering wheel retaining nut. Use a suitable puller (Dir. 21.A or equivalent) to free steering wheel from shaft.

**Installation, All Models** — When installing steering wheel, set front wheels in straight-ahead position and place steering

wheel on shaft with spokes horizontal. Torque steering wheel nut. Replace horn pad.

#### TURN SIGNAL & LIGHTING SWITCH

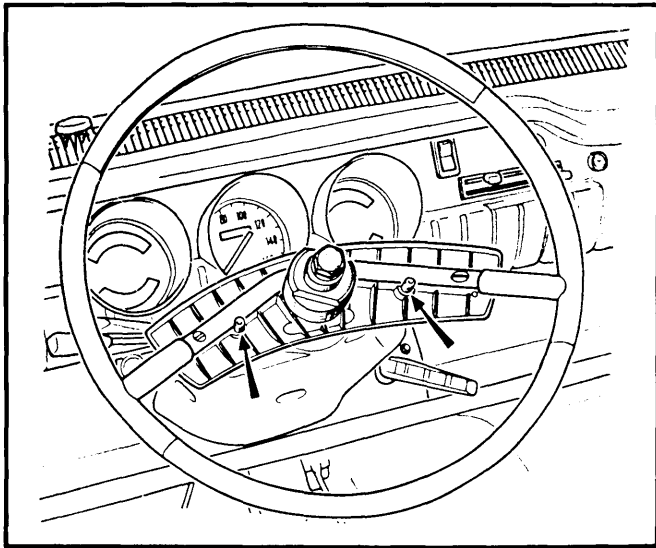
**Removal, Exc. R-5** — 1) After removing steering wheel, remove steering column cover. Disconnect return spring on flasher switch.

2) Note location of all electrical connections to switch, then detach the wiring. Disconnect return spring for turn signal switch.

3) Remove lighting switch retaining screws and remove switch from steering column.

# Steering Wheel & Column Switches 10-15

## RENAULT (Cont.)



**Fig. 1** Top View of Steering Wheel with Detail of Horn Pad Mounting Pins

**Installation, Exc. R-5** — To install, reverse removal procedure, noting original location of all wiring connections.

**NOTE** — For the following procedure, steering wheel does not have to be removed.

**Removal, R-5** — 1) Disconnect battery. Remove instrument panel housing screws. Remove screws from bottom shell of switch cover.

2) Remove screws securing turn signal/lighting switch to column. Disconnect electrical couplings and remove switch.

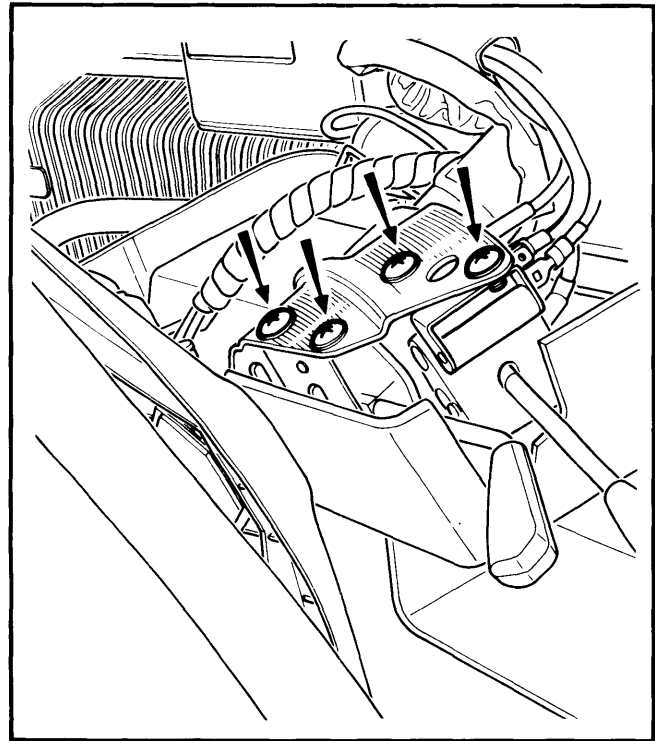
**Installation, R-5** — To install, reverse removal procedure. Make sure electrical connections are made in their original locations.

### IGNITION SWITCH/COLUMN LOCK

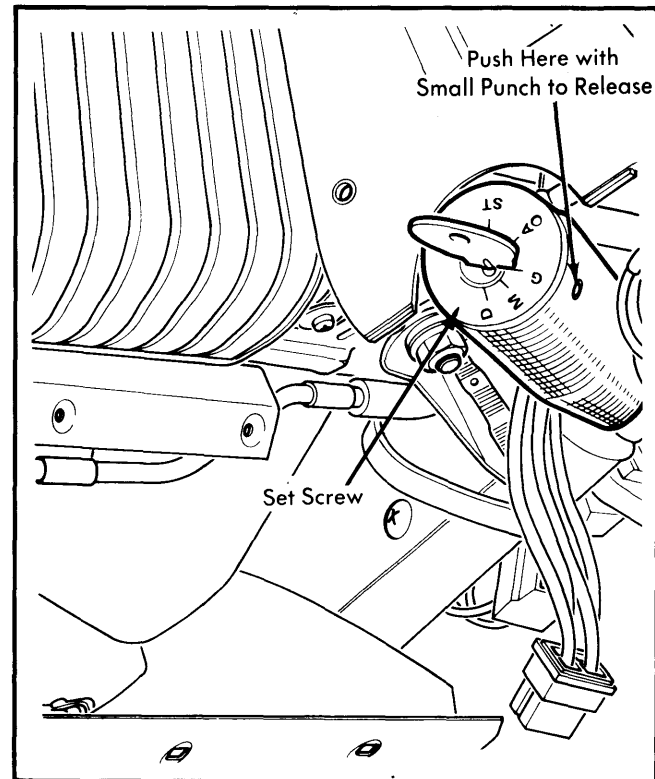
**Removal, All Models** — 1) Disconnect the battery. Remove shell cover from around switch assemblies. Disconnect electrical couplings. Turn ignition key to "G" (Garage) and remove it.

2) Unscrew the set screw and press retaining catch in with a small punch. Push switch body from backside to release it.

**Installation, All Models** — To install, reverse removal procedure.



**Fig. 2** Location of Switch Assembly Retaining Screws — R-5 Shown



**Fig. 3** Ignition Switch Removal — R-5 Shown