

# Steering Wheel & Column Switches 10-15

## RENAULT

R-5

Installation, All Models – To install, reverse removal procedure.

### 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

**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.

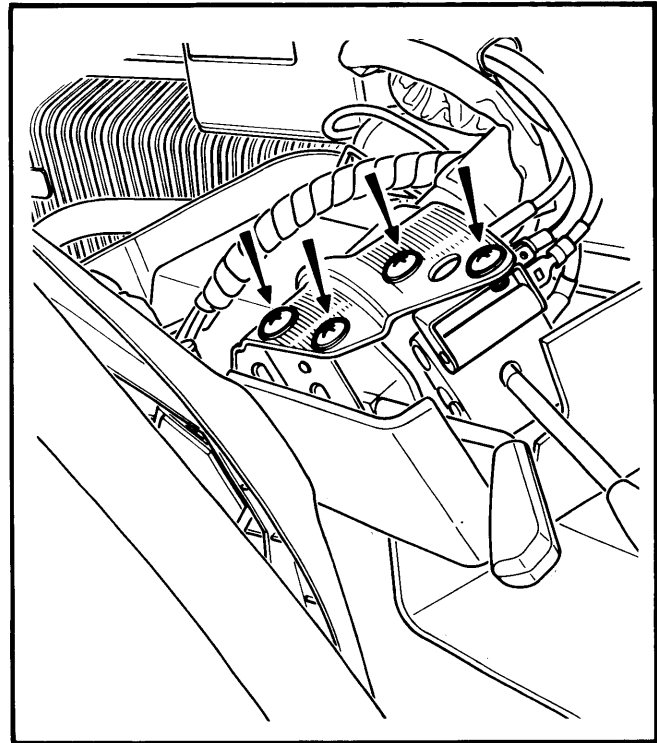


Fig. 2 Location of Switch Assembly Retaining Screws – R-5 Shown

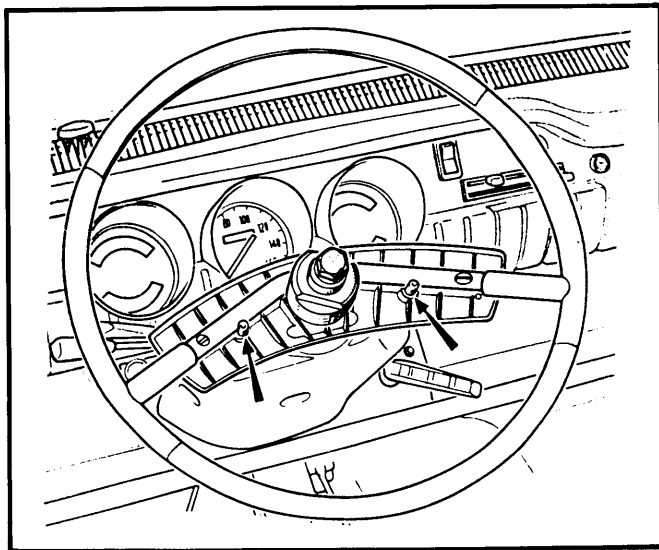


Fig. 1 Top View of Steering Wheel with Detail of Horn Pad Mounting Pins

#### 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.

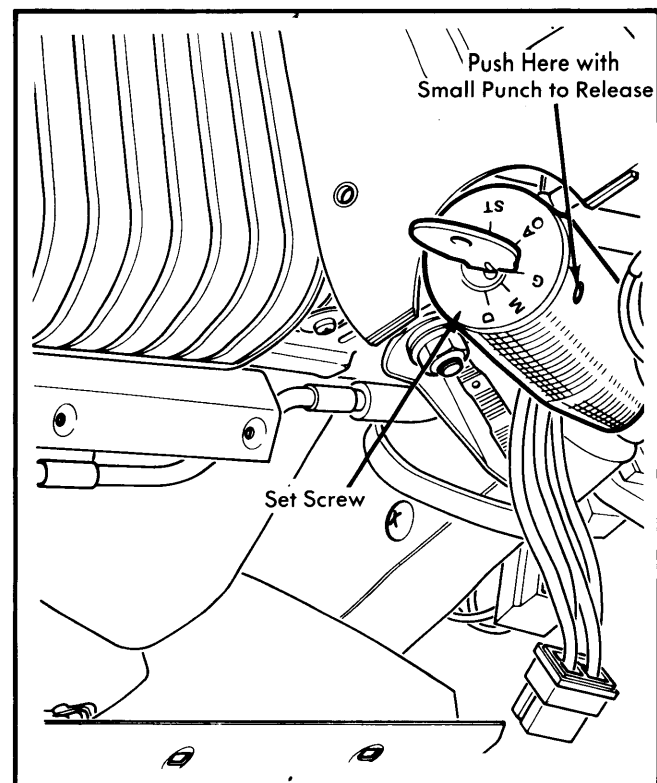


Fig. 3 Ignition Switch Removal – R-5 Shown

# 10-16 Steering Wheel & Column Switches

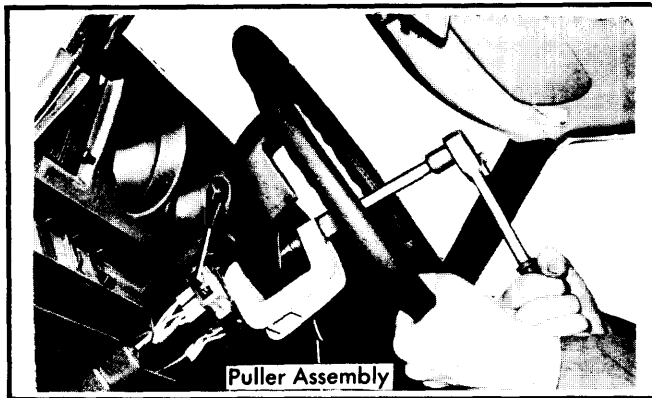
## SAAB

99

### REMOVAL & INSTALLATION

#### HORN CONTROL & STEERING WHEEL

**Removal** — Unbolt the mounting hardware and remove the bottom cover from steering column. Remove four screws, under steering wheel spokes, holding safety pad, then remove pad. Remove steering wheel nut and washer, then fit puller and remove wheel. With wheel removed, extract directional indicator assembly.



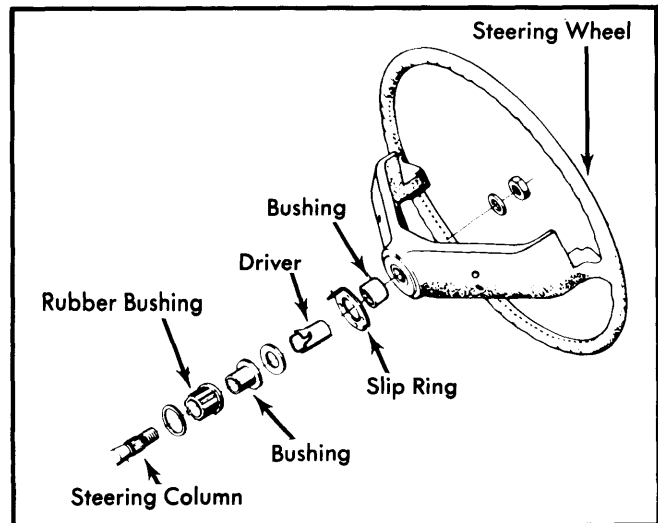
**Fig. 1** Using a Universal Puller Tool to Remove Steering Assembly

**Installation** — Refit directional signal assembly ensuring index line coincides with centerline of assembly housing. Install plastic sleeve over driver. Put steering wheel on with front

wheels straight ahead and spokes horizontal. To complete reassembly, reverse removal procedure.

**Removal (99 EMS Models Only)** — Disconnect battery ground. Remove center pad, then reach under and disconnect horn leads from center pad while hand supporting pad. Remove steering wheel nut. Use a universal steering wheel puller to remove steering wheel.

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



**Fig. 2** Exploded View of Saab Steering Wheel Except EMS Models

## SUBARU

1600  
BRAT

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

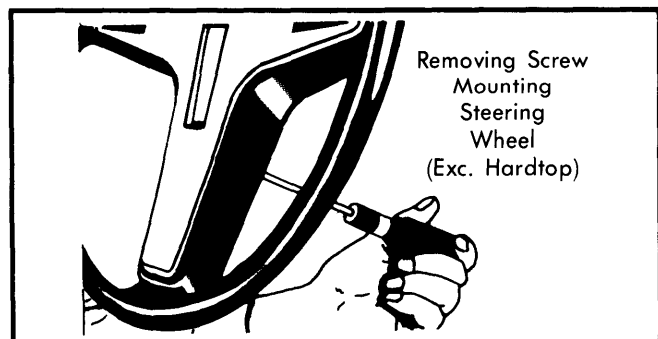
**Removal** — Disconnect battery. Remove bolt (from back side of steering wheel) that holds wheel in place (except Hardtop). Take off horn pad by lightly pressing down and rotating to left. Remove steering wheel mounting nut, spring washer and washer. Pull steering wheel from steering column shaft while disconnecting horn wires, if necessary.

**Installation** — To install, reverse removal procedure and note the following: After steering wheel is installed, check clearance between wheel and column cover; it should be .04-.12" (1-3 mm). If beyond this range, loosen column cover screws and adjust.

#### COMBINATION SWITCH

**Removal** — Remove steering wheel as previously described. Unscrew hazard warning knob from steering column. Remove two switch retaining screws and lift assembly from steering column.

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



**Fig. 1** Removing Horn Pad from Steering Wheel