

10-12 Steering Wheel & Column Switches

PORSCHE (Cont.)

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.

Removal (928) — Disconnect battery ground. Remove steering wheel. Remove cover from under steering column switch. Remove steering column switch mounting screw. Remove instrument cover mounting screws. Maneuver instrument cover until electrical wires can be disconnected. Remove column switch.

Installation — To install, reverse removal procedure.

STEERING COLUMN LOCK, KEY CYLINDER & IGNITION SWITCH

Removal — 1) Remove combination switch as previously outlined. Drill out shear bolts. Disconnect ignition switch wiring.

Disengage snap ring and slide out switch housing with bearing.

2) Using a pointed tool (scribe), push cylinder lock retainer in to release cylinder. With key inserted and retainer depressed, pull cylinder from housing. Remove ignition switch set screw and remove ignition switch back from housing.

Installation — To install, reverse removal procedure.

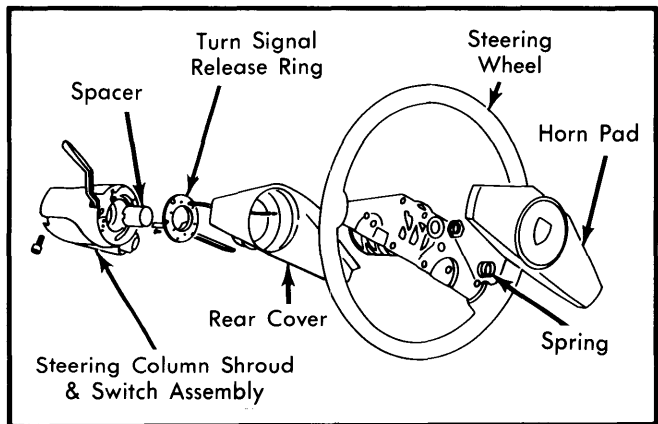


Fig. 1 Exploded View of Porsche 924 Steering Wheel and Related Components

RENAULT

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REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Disconnect battery ground cable. Remove horn pad. Unscrew steering wheel retaining nut. Using a puller (Dir. 21A or equivalent), remove steering wheel from shaft. To install, reverse removal procedure and note: Ensure wheels are in straight-ahead position and steering wheel spokes are in horizontal position.

TURN SIGNAL & LIGHTING SWITCH

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

Removal — Disconnect battery and remove horn pad. Remove steering wheel nut and use puller (Dir. 21A) to remove steering wheel.

Installation — To install, reverse removal procedure, ensuring wheels are straight ahead when wheel is installed.

IGNITION SWITCH/COLUMN LOCK

Removal — 1) Disconnect battery ground cable. Remove shroud from around switch assembly. Disconnect electrical con-

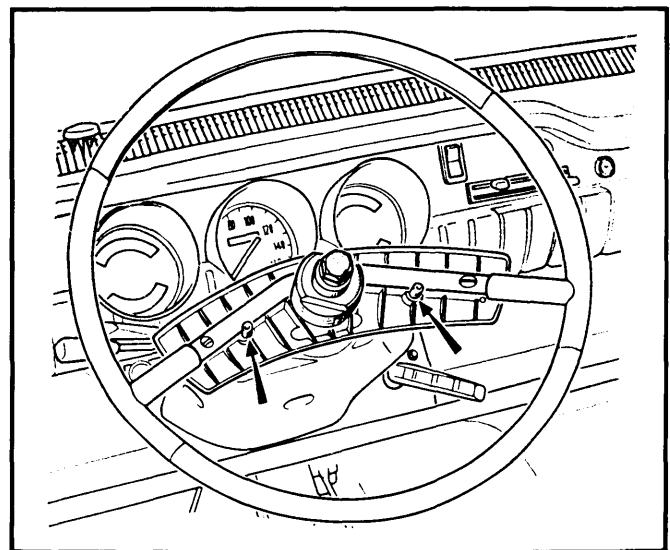


Fig. 1 Top View of Steering Wheel with Detail of Horn Pad Mounting Pins

nections. Turn ignition switch to "G" (Garage) and remove switch.

2) Remove set screw and press in retaining catch with a small punch. Push switch body from rear to release it. See Fig. 3.

Installation — To install, reverse removal procedure.

RENAULT (Cont.)

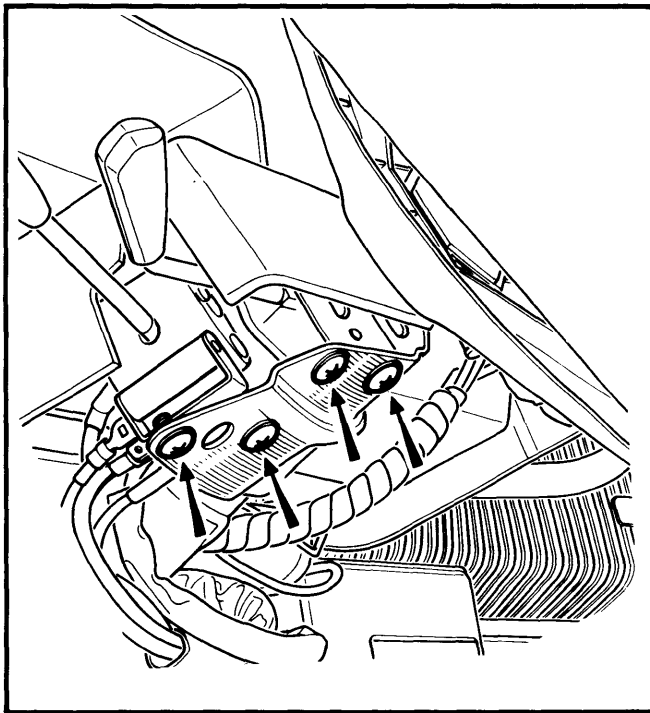


Fig. 2 Location of Switch Assembly Retaining Screws

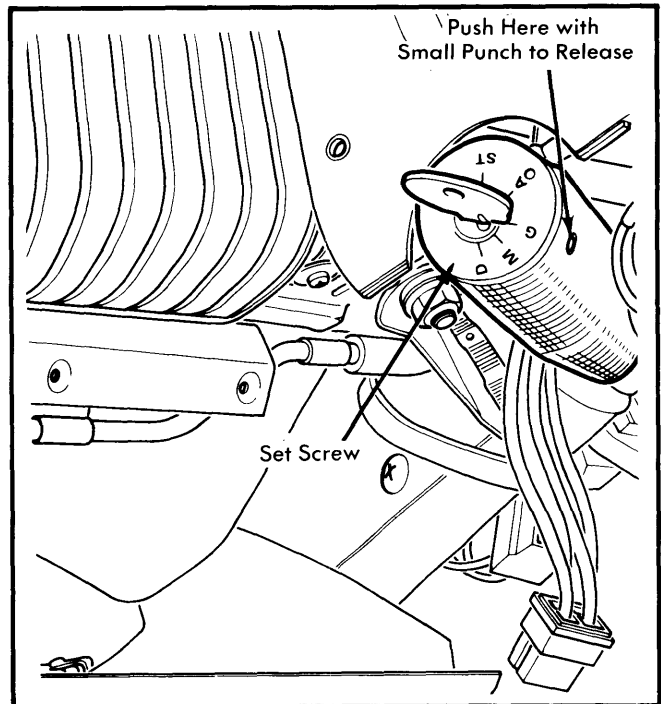


Fig. 3 Ignition Switch Removal

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REMOVAL & INSTALLATION

HORN CONTROL & STEERING WHEEL

Removal — Disconnect battery ground cable. Remove bottom cover retaining screws and cover. On standard steering wheel, remove retaining screws from behind steering wheel, then remove pad and horn contact. On 3-spoke wheel, lift pad from spokes, then reach under and disconnect horn leads while supporting pad.

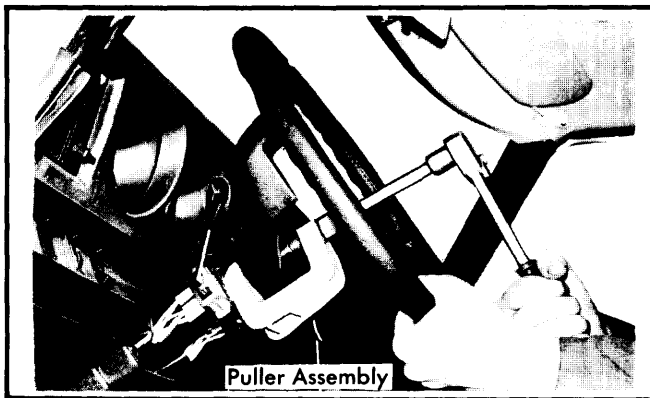


Fig. 1 Using a Universal Puller Tool to Remove Steering Assembly

2) Mark position of steering wheel to shaft and remove retaining nut and washer. Remove wheel from shaft with suitable wheel puller.

SAAB

Installation — To install, reverse removal procedure.

COMBINATION SWITCH

Removal — Disconnect battery ground cable. Remove steering wheel shrouding and lower instrument panel shroud. Disconnect electrical connections at base of column. Remove retaining screws and direction/wiper switch assembly.

Installation — To install, reverse removal procedure and note: Directional signal must be properly aligned on column.

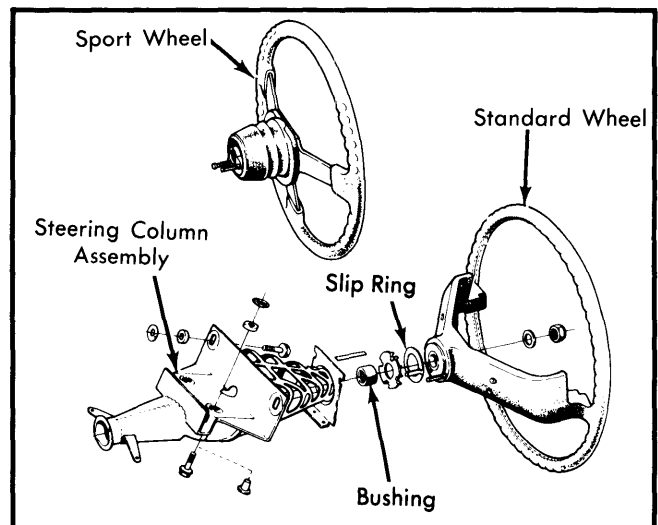


Fig. 2 Exploded View of Steering Wheel Assembly