

Steering Wheel & Column Switches 10-11

MG

MGB

REMOVAL & INSTALLATION

STEERING WHEEL

Removal — Disconnect battery ground cable. Remove steering wheel pad. Remove mounting nut. Mark position of steering wheel and column. Use puller (18G 1317) to remove steering wheel from shaft.

Installation — Reverse removal procedure and note: Line up index marks. Make sure cancel cam has ridge facing indicator switch. Make sure steering wheel projections (tongues) slip into slots on cancel cam.

COMBINATION SWITCH

Removal — Disconnect battery ground cable. Remove steering wheel. Remove steering column shroud screws and remove shrouding. Disconnect electrical connections at base of column

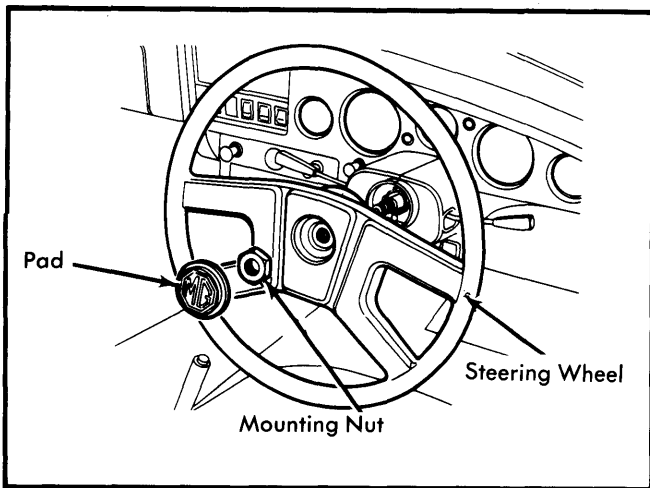


Fig. 1 Exploded View of Steering Wheel Assembly

and remove retaining tape. Remove wiper switch retaining screws and loosen switch clamp screw. Remove combination switch from shaft.

Installation — To install, reverse removal procedure and note: Ensure locating tang of switch aligns with outer slot of steering column.

STEERING COLUMN LOCK & IGNITION SWITCH

Removal — Remove necessary shrouding to gain access to lock. Make sure steering lock is disengaged. Disconnect ignition switch multi-pin connector. Drill out and remove shear bolts from lock bracket. Remove steering screw holding switch in lock and remove switch.

Installation — Center locking mechanism on column. Hand tighten new shear bolts. Reconnect multi-pin connector. Check switch and lock operation. Tighten shear bolts until heads break.

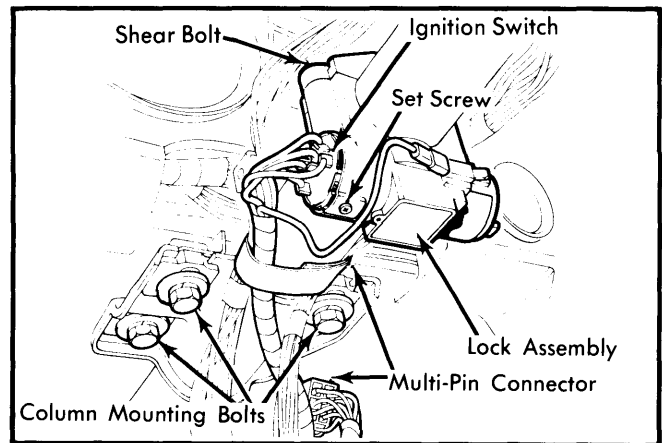


Fig. 2 Bottom View of Steering Column Showing Ignition Switch and Column Lock

PORSCHE

911SC

924

928

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

NOTE — On models equipped with a collapsible "can" behind the steering wheel, care must be taken in all service procedures. Do not apply excessive or striking forces to the steering wheel or steering column.

Removal (911SC) — 1) Align front wheels in straight ahead position. Disconnect battery cable.

2) Grasp horn pad and rotate counterclockwise while pushing in. When horn pad is free, lift from steering wheel and disconnect horn contact finger.

3) Loosen steering wheel retaining nut. Mark position of steering wheel to steering shaft. Attach a suitable puller and remove the steering wheel.

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 shaft. To refit wheel, reverse removal procedure.

Removal (928) — Disconnect battery ground. Place wheels in straight-ahead position. Take off horn pad. Disconnect horn wires. Index mark steering wheel and column shaft. Unscrew mounting nut. Remove steering wheel.

Installation — Align index marks and replace steering wheel so spokes are horizontal. Install mounting nut. Fit horn wires into place in pad. Press horn pad onto retaining pins.

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.

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.

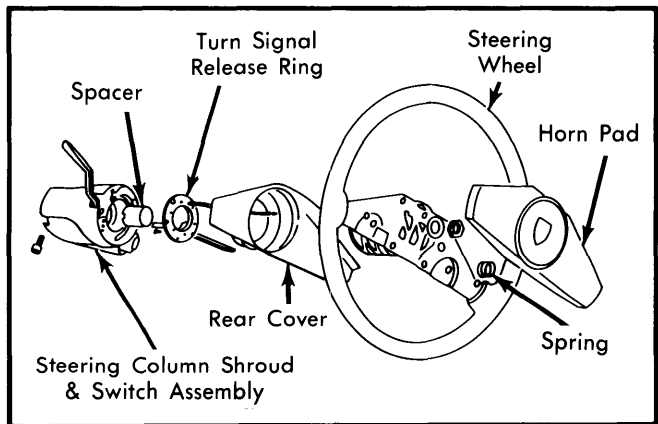


Fig. 1 Exploded View of Porsche 924 Steering Wheel and Related Components

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-

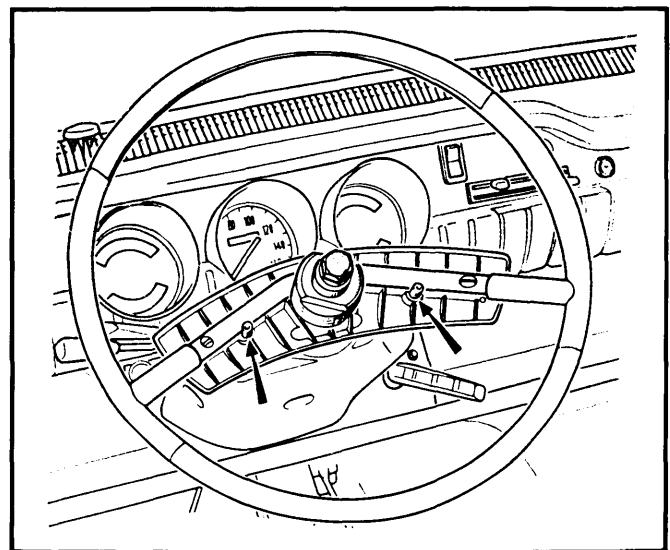


Fig. 1 Top View of Steering Wheel with Detail of Horn Pad Mounting Pins

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.