

12-14 Steering Wheel & Column Switches

MERCEDES-BENZ

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Removal (Polyurethane Wheel)

1) Place alignment marks on wheel and shaft. Grip horn pad near one corner and pull straight up until free. Pull up other corner.

2) Remove pad from steering wheel. Unscrew retaining nut, remove spring washer and pull steering wheel from shaft.

Installation

To install, reverse removal procedures.

Removal (Plastic Wheel)

1) Remove vehicle emblem from horn pad. Unscrew steering wheel retaining nut and pull wheel from shaft with pad still attached.

2) Unscrew hex nuts on backside of wheel. Separate steering wheel from pad.

NOTE: Horn wire is still attached to steering wheel, so care must be taken to avoid breaking it.

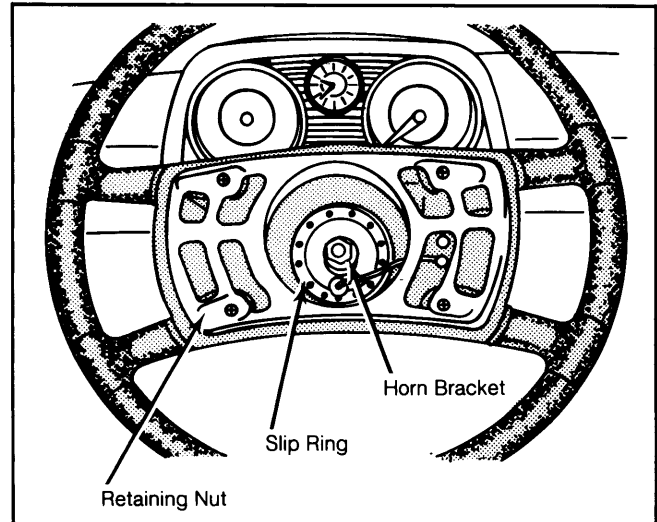
3) Detach horn wire from contact ring. Remove steering wheel. Remove countersunk screws from steering wheel hub and centering pad of contact ring.

4) Remove horn ring from steering wheel. Remove locking ring from hub of pad. Remove slip ring.

Installation

To install, reverse removal procedures. Ensure wheels are kept in straight-ahead position and that steering wheel spokes are horizontal.

Fig. 1: Mercedes-Benz Steering Wheel with Cover Removed



PORSCHE

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Removal (911SC)

1) Align front wheels in straight-ahead position. Disconnect battery cable. Grasp horn pad and rotate counterclockwise while pushing in.

CAUTION: Do not apply excessive or striking forces to the steering wheel or steering column.

2) 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 puller and remove the steering wheel.

Installation

To install, reverse removal procedures. Lightly lubricate horn contact finger with electrical contact grease before installation.

Removal (924 & 944)

Disconnect battery. Using hand pressure, lift up horn pad. Unscrew wheel retaining nut. Pull wheel upward and off shaft.

CAUTION: Do not apply excessive or striking forces to the steering wheel or steering column.

Installation

To install, reverse removal procedures.

Removal (928)

Disconnect battery ground. Place wheels in straight-ahead position. Remove horn pad. Disconnect

horn wires. Index mark steering wheel and column shaft. Unscrew retaining nut. Remove steering wheel.

Installation

Align index marks and replace steering wheel so spokes are horizontal. Install retaining 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 retaining nut. Pull steering wheel off shaft.

CAUTION: Do not apply excessive or striking forces to the steering wheel or steering column.

2) Remove shroud from around switch housing. Pull up on switch plate and disconnect electrical wires.

3) Remove entire switch assembly, separate wiper/washer switch from turn signal switch by taking out screw that retains them together.

Installation

1) Refit switches together with screw. Slide switch assemblies back into place, refitting spacer at same time.

2) Make sure spacer is driven in until there is a distance of 1.7" (42.5 mm) from face (top edge) of spacer to top edge of shaft.

3) This distance will ensure there is .08-.15" (2-4 mm) between steering wheel and steering column

Steering Wheel & Column Switches ¹²⁻¹⁵

PORSCHE (Cont.)

switches. Reverse removal procedures to install remaining components.

Removal (928)

1) Disconnect battery ground. Remove steering wheel. Remove cover from under steering column switch. Remove steering column switch retaining screw.

2) Remove instrument cover retaining screws. Maneuver instrument cover until electrical wires can be disconnected. Remove column switch.

Installation

To install, reverse removal procedures.

STEERING COLUMN LOCK, KEY CYLINDER & IGNITION SWITCH

Removal

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

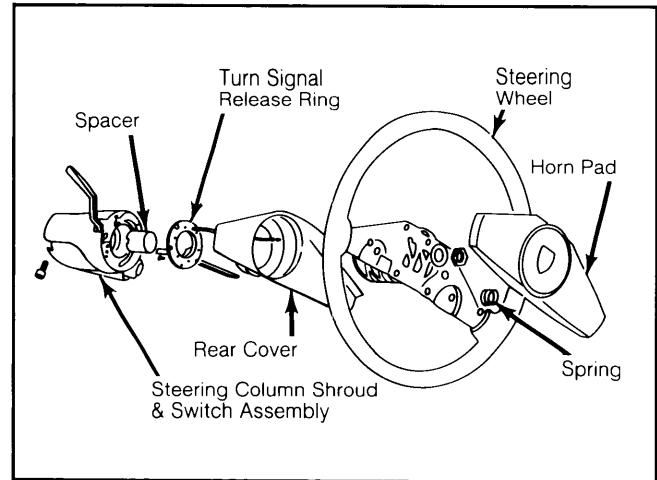
2) Disengage snap ring and slide out switch housing with bearing. Using a pointed tool (scribe), push cylinder lock retainer in to release cylinder.

3) With key inserted and retainer depressed, pull cylinder from housing. Remove ignition switch set screw. Remove ignition switch back from housing.

Installation

To install, reverse removal procedure.

Fig. 1: Exploded View of Porsche 924 Steering Wheel



All other models are similar.

RENAULT

REMOVAL & INSTALLATION

HORN PAD & STEERING WHEEL

Removal (Le Car)

Disconnect battery. Remove horn pad. Remove steering wheel nut. Using puller (Dir. 21A) remove steering wheel.

Installation

To install, reverse removal procedures.

Removal (18i & Fuego)

1) Disconnect battery. Remove horn pad. Remove 2 steering column protective housings. Remove steering wheel nut. Install puller plate tool (Dir. 372) behind steering wheel.

2) Using a center punch, make a center point mark in center of steering column shaft. Connect puller tool (Mot. 49) to puller plate.

3) Using a wrench, turn puller shaft until steering wheel is pulled from steering shaft.

Installation

1) Position steering wheel on steering shaft. Install steering wheel nut and tighten.

2) Using a center punch, notch the edge of steering column shaft to lock the nut in place. To complete installation, reverse removal procedures.

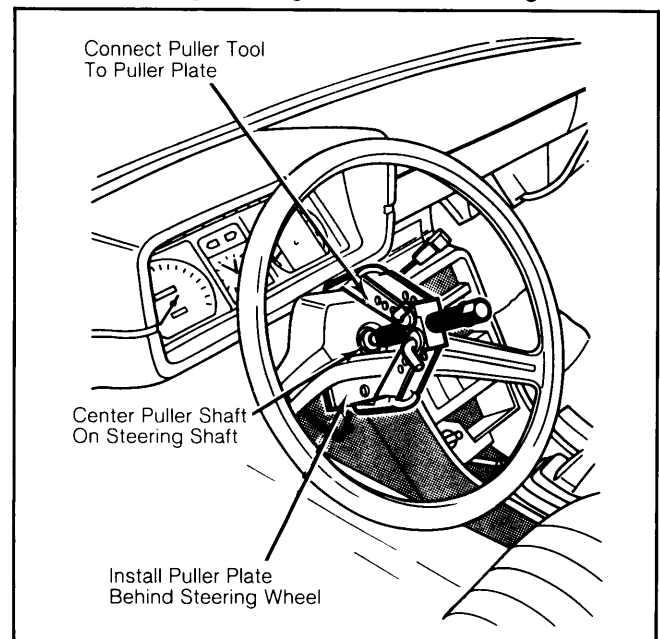
TURN SIGNAL & LIGHTING SWITCH

Removal (Le Car)

1) Disconnect battery. Remove instrument panel housing retaining screws and remove housing. See Fig. 2.

2) Remove switch retaining screws. Disconnect electrical connectors. Remove switch.

Fig. 1: Removing Steering Wheel on 18i & Fuego



Installation

To install, reverse removal procedures.

COMBINATION SWITCH

Removal (18i & Fuego)

1) Disconnect battery. Remove steering wheel. Remove 2 steering column protective housings.