

# Steering Wheel & Column Switches 10-11

## LUV (Cont.)

### HAZARD WARNING SWITCH

Disconnect battery ground cable. Remove steering column cowling screws. Hazard warning switch is retained on upper half of cowling by two screws. Disconnect switch wiring harness at connector, remove mounting screws, and withdraw switch. To install, reverse removal procedure.

### ADJUSTMENT

#### STEERING WHEEL ALIGNMENT

1) Set front wheels in straight-ahead position. Check location of spot on wormshaft which indicates gear "high point" (this should be at top center).

2) If gear is not in this position, loosen adjusting locknuts on both left and right sides of intermediate connecting rod.

3) Remove intermediate rod with inner tie rod ends attached. Turn ends an equal amount in the same direction to bring steering gear back to high point.

**NOTE** — Turning ends unevenly will disturb toe-in setting; however, toe-in should be rechecked after adjustment is made and set as required.

4) Note position of steering wheel spokes. They should be equally balanced. If they are off-center, remove steering wheel and reposition to proper alignment.

## MAZDA

GLC  
Cosmo  
RX4  
B1800

### REMOVAL & INSTALLATION

#### STEERING WHEEL & COMBINATION SWITCH

**Removal** — 1) Disconnect battery ground cable. Pull off horn cap. Place front wheels in straight-ahead position. Index mark column shaft and steering wheel.

2) Remove steering column shrouding. Disconnect electrical connectors. On models so equipped, remove stop ring from steering shaft. Take out screw(s) mounting combination switch and lift assembly from vehicle.

**NOTE** — Wiper switch can be removed with combination switch or separated from it.

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

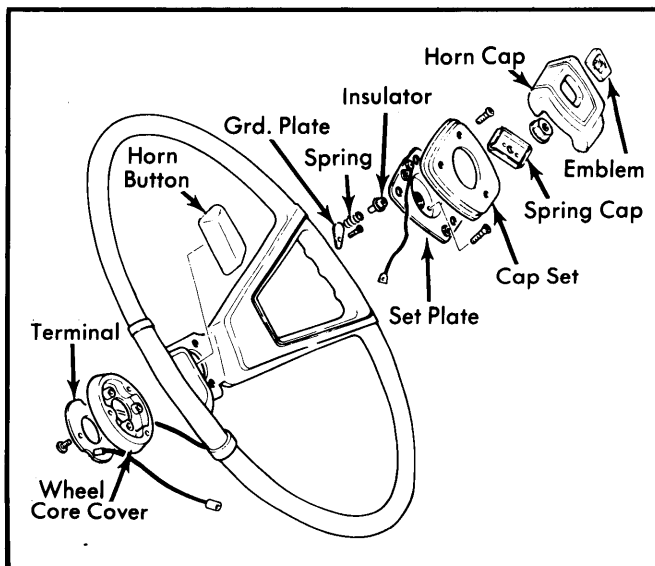


Fig. 1 Typical Mazda Steering Wheel Assembly

#### IGNITION SWITCH

**Removal; RX4 & Cosmo** — Remove steering wheel as previously outlined. Remove column shrouding. Remove combination switch. Disconnect electrical connector. Remove screw attaching switch contact (See Fig. 2) housing to steering lock body and slide out contact housing.

**Installation** — Reverse removal procedure.

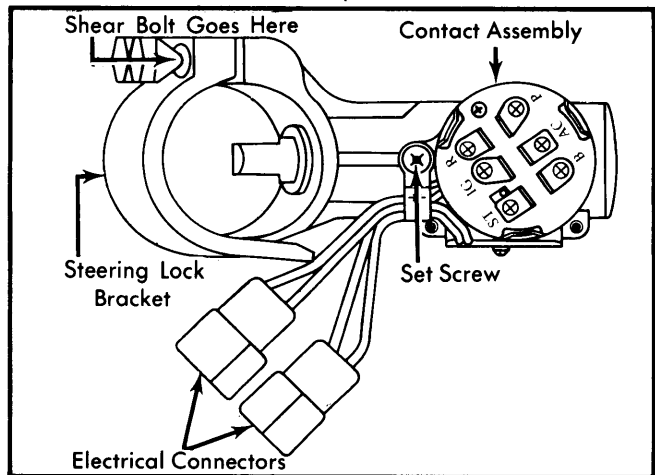


Fig. 2 RX4 and Cosmo Ignition Switch Contact Housing

#### KEY CYLINDER

**Removal & Installation; RX4 & Cosmo** — Remove steering wheel. Remove steering column shrouding. Remove set screw holding key cylinder. Insert key into cylinder and place in "ON" position. Push in on lock button and pull out key with cylinder. Reverse removal procedure to install key cylinder.

#### STEERING LOCK

**Removal (RX4 & Cosmo)** — Remove steering wheel, column shrouding and combination switch. Remove 2 bolts mounting steering column bracket to instrument panel. Move shaft out from instrument panel about 1" (.039 mm). Put a groove in bolt attaching steering lock body to column shaft and remove bolt. Steering lock should be free to remove.

**Installation** — To install, reverse removal procedure and tighten new shear bolts until heads break.

# 10-12 Steering Wheel & Column Switches

## MERCEDES-BENZ

230  
240D  
280, C, S  
300D  
450 Series  
6.9

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

**Removal, with Polyurethane Wheel (Soft Rubber) – 1)** Grip horn pad near one corner and pull straight up until free. Pull up other corner. Remove pad from steering wheel.

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

**Installation –** Prior to steering wheel installation, be sure scribe mark on shaft is straight up. Position wheel on shaft with spokes horizontal. Install retaining nut.

**Removal, with Rigid Plastic (Bealit) 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 and 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 and remove steering wheel.

4) Unscrew countersunk screws from steering wheel hub and remove centering pad of contact ring.

5) Remove horn ring from steering wheel. Remove locking ring from hub of pad, then remove slip ring.

**Installation –** To install, reverse removal procedure, noting that front wheels are always kept in a straight-ahead position and that steering wheel spokes are horizontal.

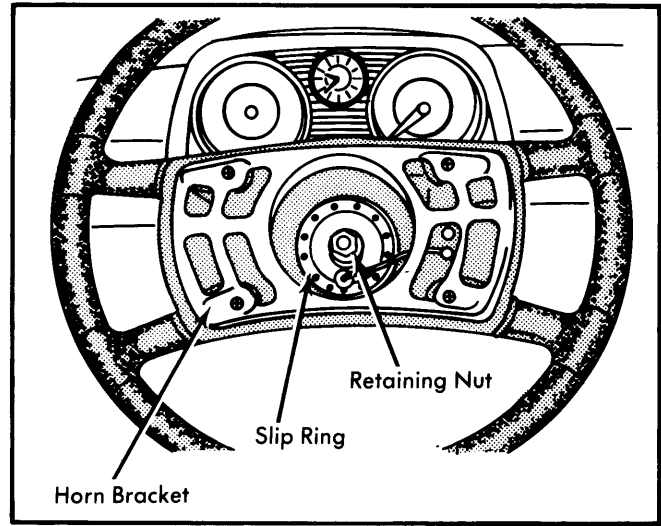


Fig. 1 Mercedes-Benz Steering Wheel with Cover Removed

MGB  
Midget

### REMOVAL & INSTALLATION

#### STEERING WHEEL

**Removal & Installation; Midget –** Disconnect battery ground. Pry off steering pad and remove horn contact plunger from seat. Remove six bolts holding steering wheel and lock

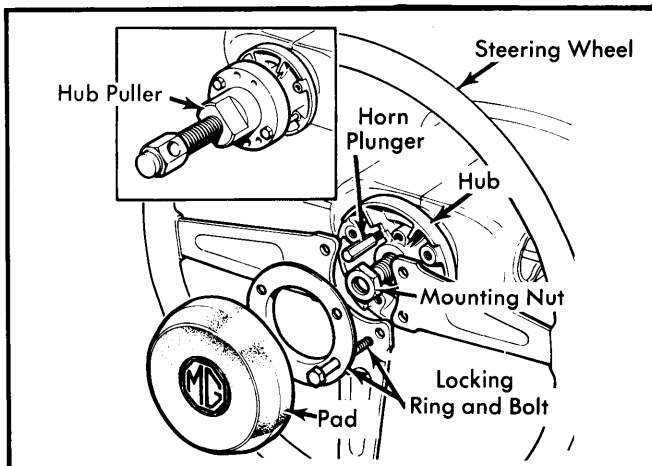


Fig. 1 Midget Steering Wheel and Related Components

## MG

ring to hub. Lift wheel from hub and set aside. Loosen hub nut. Scribe index mark on hub and column. Fit puller (Fig. 1) and work hub until loose. Remove nut and hub.

**Removal (MGB) –** Remove steering wheel pad. Remove mounting nut. Index mark wheel hub and steering column. Use puller (18 G 1317) to remove steering wheel off column 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.

#### TURN SIGNAL, WIPER/WASHER DIMMER, LIGHT SWITCH

**Removal (MGB) – 1)** Remove steering wheel. Remove steering column cowl:

- Remove 3 screws mounting steering column-to-firewall.
- Remove 3 screws mounting column bracket-to-under dash.
- Note shim pack. Support column and remove 3 screws mounting packing washers.
- Remove cowl halves. Extract light switch from cowl.

2) Disconnect multi-connector plugs. Take off tape retaining wires to steering column. Remove 3 wiper/washer switch mounting screws.