

## BMW (Cont.)

**Removal (6 Cyl. Models) – 1)** Horn contact switch removal does not require steering wheel removal. For other operations, remove steering wheel as outlined above. A horn contact switch is mounted in each spoke of steering wheel and retained by screws at underside of wheel. Wires from the three switches terminate in a single connection to the slip ring.

2) To replace slip ring, separate connection to horn contact switches, remove screws retaining slip ring to base of steering wheel and remove slip ring.

3) To replace carbon brush on steering column switch plate, remove lower cover from column, disconnect horn wire at brush assembly, then drill out rivets retaining brush assembly to switch plate.

**NOTE** – Use screws when replacing brush assembly.

**Installation** – To install, reverse removal procedure and note the following: Check size of steering wheel nut before tightening. Torque a .47" (12 mm) nut to 40-43 ft. lbs. (5.5-6.0 mkg), and a .55" (14 mm) nut to 61-69 ft. lbs. (8.5-9.5 mkg).

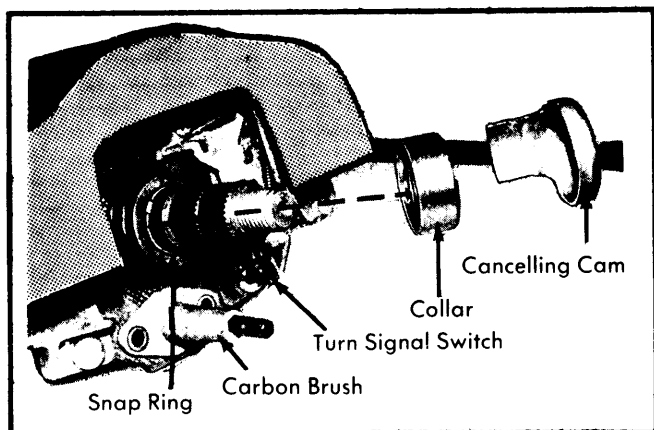


Fig. 2 BMW 6 Cylinder Column Plate Switch Shown

### TURN SIGNAL OR DIMMER SWITCH

**Removal** – Remove steering wheel as outlined previously. Detach upper cover from steering column (4 cylinder models) or lower cover (6 cylinder models). Switches are now accessible, and access to wiring is made by removing trim panels. Turn signal cancelling cam may be removed at this time if desired.

**Installation** – To install, reverse removal procedure and note the following: Dimmer switch should be positioned in center of slots. When installing turn signal switch, steering must be in

straight-ahead position. With switch in neutral position, cancelling finger should point to center of cancelling cam with a .012" (0.3 mm) clearance between cam and finger.

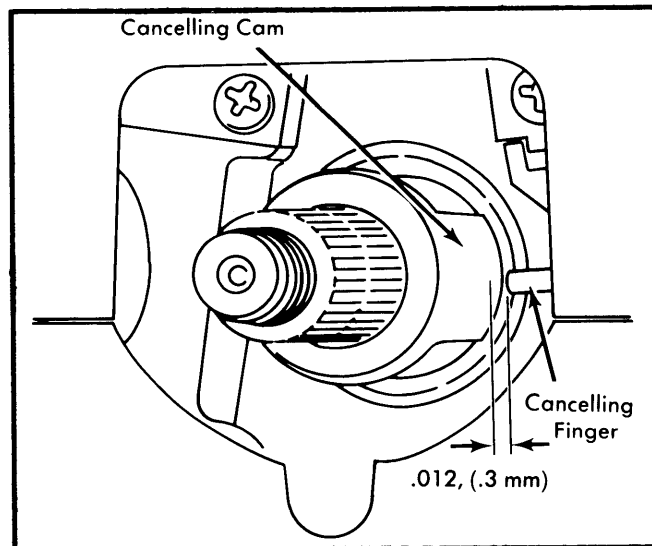


Fig. 3 Cancelling Cam and Finger with Clearance Shown

### STEERING LOCK AND IGNITION SWITCH

**Removal (4 Cylinder Models) –** Remove steering column. See *Steering Columns In STEERING* Section. Disconnect battery ground strap. Remove outer tube casing. Chisel out shear bolts. Remove flat head retaining screw and pull out steering lock from steering column.

**Installation** – To install, reverse removal procedure and note the following. Ensure retaining screw properly engages locating hole in outer tube. Tighten shear bolts evenly.

**Removal (6 Cylinder Models) – 1)** Remove battery ground strap. Remove steering wheel as previously outlined. Remove steering column lower casing. Disconnect and remove turn signal wiper/washer switches at the switch plate.

2) Chisel off switch plate shear screws. Remove ignition lock screw and pull out ignition switch. Chisel off steering lock plate shear bolt, remove lock plate, and pull out steering lock.

**Installation** – To install, reverse removal procedure and note the following: Place steering in straight ahead position. Centralize turn signal indicator plate. Tighten all nuts and bolts evenly.

### CAPRI

Capri

### REMOVAL & INSTALLATION

#### STEERING WHEEL

**Removal** – Align wheels in straight-ahead position. Remove two screws securing steering column shroud and detach both

halves. Pry out steering wheel center emblem. Unscrew steering wheel nut. Note alignment marks on wheel and shaft. Pull off steering wheel, using hand pressure only.

**Installation** – To install, reverse removal procedure, noting the following: Realign positioning marks of steering wheel and shaft. Ensure turn signal cancelling cam is engaged in groove on underside of steering wheel.

# Steering Wheel & Column Switches 10-5

## CAPRI (Cont.)

### TURN SIGNAL & IGNITION SWITCHES

**Removal** — Disconnect battery. Remove steering column shroud upper and lower halves. Remove turn signal switch retaining screws, disconnect electrical plug and remove turn signal switch. Place ignition key in the "O" position, then remove screws from the lower left trim panel. Disconnect electrical plug from emergency flasher then remove trim panel. Disconnect ignition wires at connector then remove screws securing ignition switch to lock and remove ignition switch.

**Installation** — To install, reverse removal procedure, making sure that ignition key is in the "O" position and all wires are reconnected.

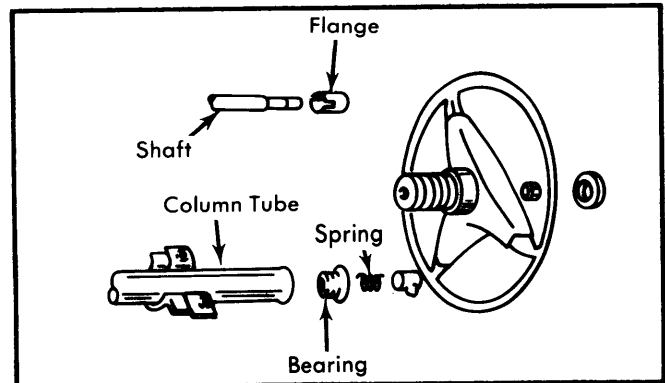


Fig. 1 Capri Steering Wheel Components

## COURIER

### Courier

### REMOVAL & INSTALLATION

#### STEERING WHEEL, HORN BUTTON, TURN SIGNAL SWITCH

Disconnect battery ground cable. Remove horn button by turning counterclockwise. Remove contact spring. Mark relative position of steering wheel to shaft. Remove steering wheel nut, then pull wheel from shaft. Remove cancelling cam and snap ring. Disconnect combination turn signal/dimmer switch wires. To install, reverse removal procedure.

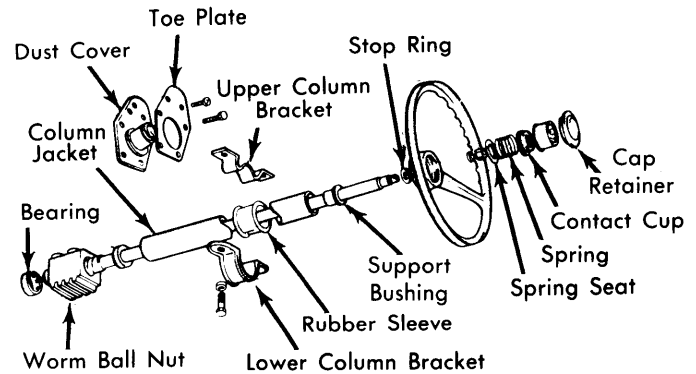


Fig. 1 Courier Steering Wheel and Column

## DATSUN

B210  
F10  
280Z  
610  
710  
Pickup

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

**Removal** — 1) On 280Z models, remove horn pad by disconnecting battery, pushing in on horn pad and turning counterclockwise.

2) On 710 models, disconnect battery and horn wire. If equipped with two-spoke wheel, slide horn pad up, then out. If equipped with three-spoke wheel, pull horn pad straight out.

3) On all other models, disconnect battery. With resin-cast (two-spoke) wheel, remove screws from rear side of steering wheel. Remove horn pad and detach horn wire. With three-spoke steering wheel, pull horn pad straight out and detach horn wire.

4) On all models, remove steering wheel nuts, position suitable wheel puller (ST27180001 or equivalent) and turn puller bolt until wheel is removed.

**CAUTION** — Do not strike or hammer wheel to remove it. Also be careful not to damage the cancelling pole.

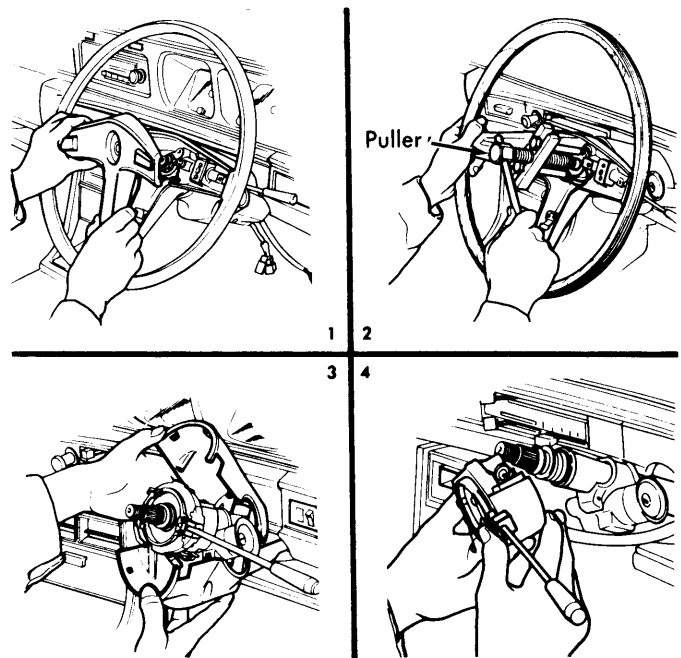


Fig. 1 Necessary Steps for Steering Wheel Removal