

# 11-4 Steering Wheel & Column Switches

## BMW (Cont.)

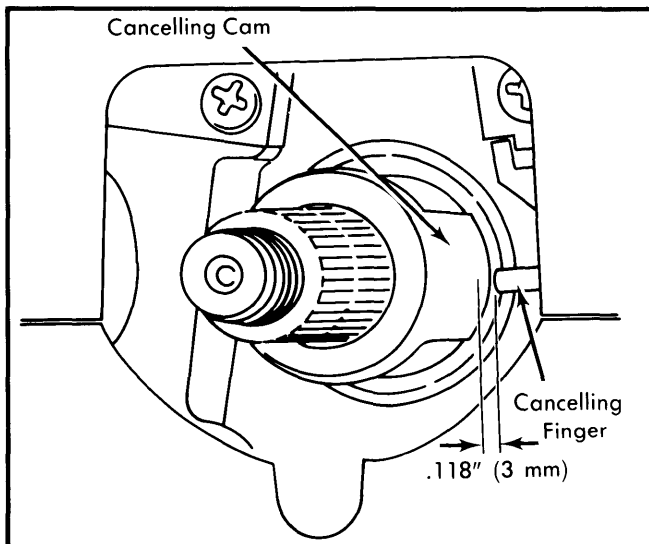
**Removal (Slip Ring)** – Disconnect electrical lead at each spoke. Remove 2 slip ring mounting screws and slide slip ring off steering wheel.

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

### TURN SIGNAL & DIMMER SWITCH

**Removal** – Disconnect battery ground cable. Remove 3 mounting screws and pull down lower shroud. Remove steering wheel as previously outlined. Separate wiring from mounting straps on steering column. On 320i models, disconnect electrical plug under instrument panel. On other models, disconnect central fuse/relay plug. Remove 4 switch mounting screws and slide off switch with harness.

**Installation** – To install, reverse removal procedure and note: Make sure steering wheel is lined up with reference marks. Ensure turn signal assembly is centered. Finger on cancelling cam must face toward center. Distance between switch and finger should be about .118" (3 mm).



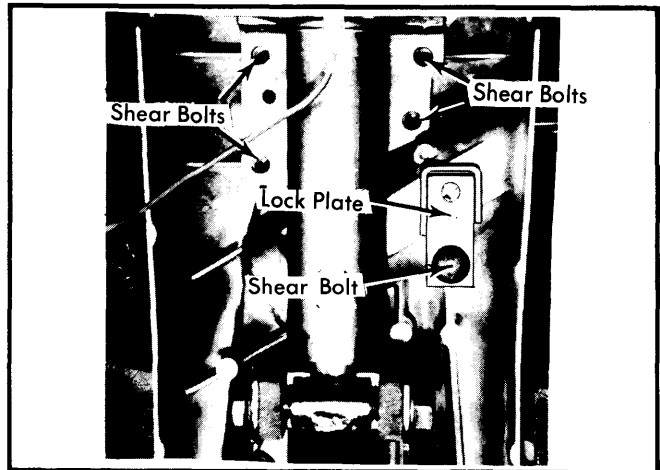
**Fig. 2 Cancelling Cam and Finger with Clearance Shown**

### IGNITION SWITCH

**Removal** – 1) Disconnect battery ground cable. Remove mounting screws and pull off lower plastic shroud. Remove hollow set screw and slide out ignition switch. Disconnect horn wires on 320i models only.

2) Disconnect steering column wire holders. Disconnect central fuse/relay plate plug and plug connector. On 320i models only, disconnect central plug. On all models, remove ignition switch.

**Installation** – To install, reverse removal procedure and note following: Make sure to turn ignition key all the way back before inserting. Set ignition switch at "O" position before installing. On 320i models only, marks on ignition switch must oppose each other.



**Fig. 3 Location of Shear Bolts. View Looking Up From Under Steering Column. All Models Except 320i**

### STEERING LOCK

**Removal (Exc. 320i)** – 1) Disconnect battery ground. Remove steering wheel. Remove 3 screws holding lower steering column shroud. Disconnect and remove turn signal and wiper/washer switch plate.

2) Remove shear bolts from switch plate with chisel. Remove set screw on outside of steering column tube. Pull out ignition switch. Remove steering lock plate shear bolt and pull out steering lock.

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

**Removal (320i)** – Disconnect electrical wires from under instrument panel. Remove shroud. Remove shear bolt from lock plate and pull out steering lock.

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

## CHRYSLER CORP. IMPORTS

Arrow Pickup  
Challenger  
Champ

Colt  
Ram-50 Pickup  
Sapporo

### REMOVAL & INSTALLATION

#### STEERING WHEEL & COMBINATION SWITCH

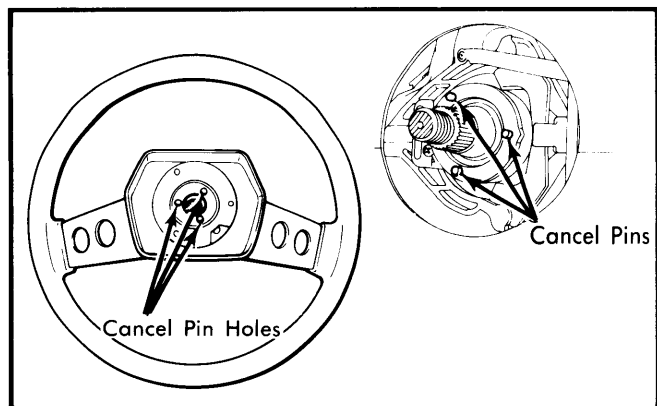
**Removal** – 1) Disconnect battery ground cable. Remove horn pad. Mark main shaft and steering wheel for reassembly reference. Remove steering wheel nut. Remove steering wheel with suitable puller (DT1001A).

**NOTE** – If equipped with tilt steering, handle must be in lowest position before removing steering wheel.

2) Remove column cover. Disconnect electrical connections at base of steering column. Remove retaining screws and pull combination switch out.

**Installation** – 1) Install combination switch and retaining screws. Connect electrical connections at base of column and route harness along center of tube.

## CHRYSLER CORP. IMPORTS (Cont.)



**Fig. 1** Installation of Steering Wheel on Arrow, Challenger, Colt and Sapporo Models

2) To install steering wheel, place front wheels in straight ahead position. On Arrow, Challenger, Colt and Sapporo models, align cancel pins of column switch with holes in bottom of steering wheel. On all models, refit steering wheel with index marks aligned. Tighten nut and install horn pad.

### STEERING LOCK

**Removal** — With steering wheel removed, disconnect negative battery cable. Remove column levers and switches. Cut a slot in mounting head screws and bracket with a hack saw. Remove screws and remove steering wheel lock.

**Installation** — To install reverse removal procedure and install new bracket and screws.

## COURIER

### REMOVAL & INSTALLATION

#### STEERING WHEEL & COMBINATION SWITCH

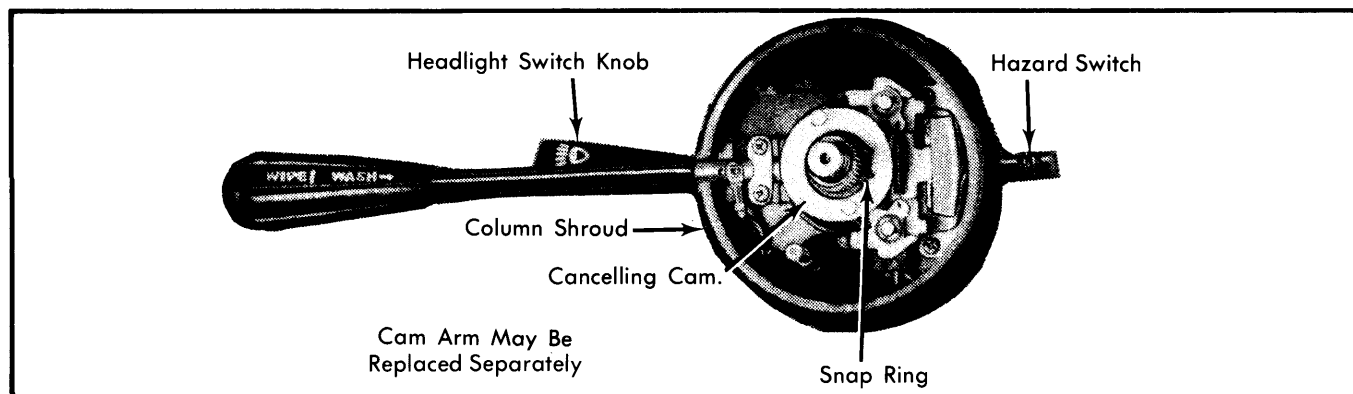
**Removal** — 1) Disconnect battery ground cable. Remove steering wheel nut cover. Index mark main shaft and steering wheel. Disconnect electrical leads. Pull steering wheel from shaft.

2) Remove plastic hazard light indicator and steering column shroud. Disconnect electrical wires at base of steering column. Remove headlight switch knob from shaft.

3) Remove snap ring retaining switch and force turn indicator cancelling cam off shaft. Take out single bolt, near bottom of switch, and pull out complete switch assembly.

**Installation** — 1) Fit switch assembly on steering column then, refit one retaining bolt. Place turn indicator cancelling cam into position and install snap ring. Reconnect electrical plug at column base.

2) Insert and tighten headlight knob switch. Install column shroud and plastic hazard light indicator. Refit steering wheel with index marks aligned. Connect battery ground cable.



**Fig. 1** Top View of Steering Column with Steering Wheel Removed to Expose Combination Switch

## DATSUN

200SX  
210  
280ZX  
310

510  
810  
Pickup

### REMOVAL & INSTALLATION

#### STEERING WHEEL & HORN PAD

**Removal** — 1) Disconnect battery ground cable. Use the following procedures to remove horn pad for particular model:

• On 200SX, 280ZX, 310, 810 and Pickup models, pull horn pad off steering wheel.

• On 210 models, remove 3-spoke horn pad by pulling off. Remove 2-spoke horn pad by removing bolts on back side of steering wheel, then pull off pad. Remove horn wire.

• On 510 models, remove screws on back side of steering wheel and pull pad off. Remove horn wire.