

Steering Wheel & Column Switches

AUDI

REMOVAL & INSTALLATION

STEERING WHEEL & HORN

Removal

Disconnect battery ground cable. Using hand pressure, pull off steering wheel center pad. Make sure horn leads (carbon brushes) slide out of recess in steering wheel on 5000 models. Remove steering wheel nut. Using wheel puller, remove steering wheel.

Installation

To install, reverse removal procedure.

TURN SIGNAL, DIMMER & WIPER/WASHER

Removal (4000 & Quattro)

Disconnect battery cable. Remove steering wheel. Unscrew 3 steering column switch housing screws. Pull housing off column tube. Disconnect electrical wires from switch housing. Remove mounting screws and switches.

Installation

To install, reverse removal procedure.

TURN SIGNAL, DIMMER, HAZARD & WIPER/WASHER

Removal (5000)

Remove steering wheel. Working through hole in bottom of column shrouding, release mounting and take off shroud. Disconnect electrical wire connectors. Remove switch mounting screws. Lift out switches.

Installation

To install, reverse removal procedure.

STEERING COLUMN LOCK

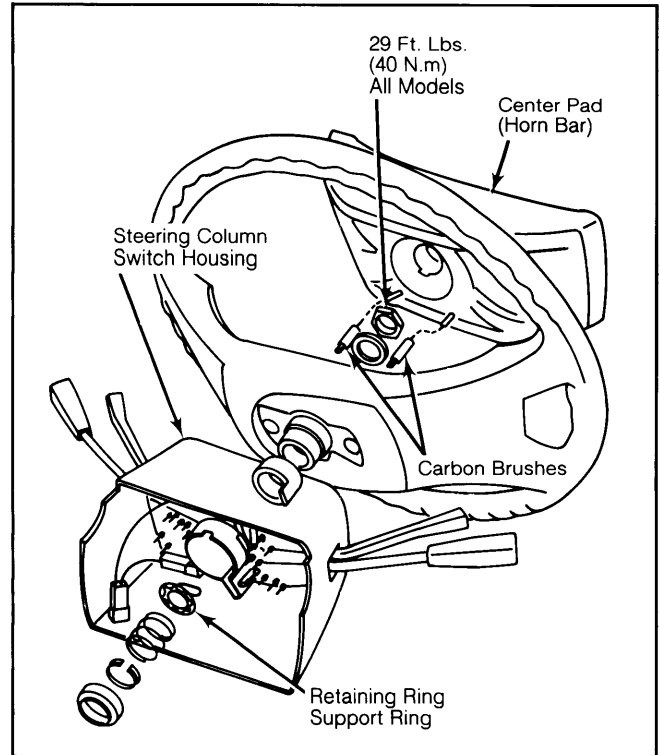
Removal (Power Steering)

Remove column cover and switches. Remove lock washer and contact ring. With key in ignition, remove bolt and lock assembly.

Installation

To install, reverse removal procedure.

Fig. 1: Audi 5000 Steering Wheel Assembly



Audi 4000 and Quattro models are similar.

Removal (All Others)

Remove column cover. Disconnect electrical wires from back of ignition switch. With key in ignition, drill out shear bolts. Remove lock from column.

Installation

Make sure lugs on steering lock engage column tube. Tighten mounting bolts until heads shear off. To complete installation, reverse removal procedure.

BMW

REMOVAL & INSTALLATION

STEERING WHEEL

Removal

Disconnect battery ground cable. Place wheels in straight-ahead position. Pry steering wheel cover off to expose wheel mounting nut. Index mark wheel and main shaft. Remove mounting nut. Pull off steering wheel.

Installation

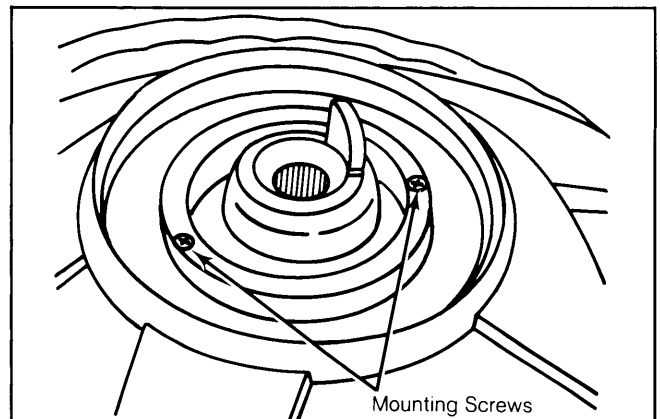
To install, reverse removal procedure. Align reference marks made during removal.

HORN CONTROLS

Removal

Using a small screwdriver, carefully pry off horn button. Remove contact spring. Remove 2 slip ring mounting screws and slide slip ring off steering wheel.

Fig. 1: Slip Ring Mounting Screw Removal



BMW (Cont.)

Installation

To install, reverse removal procedure. Ensure slip ring engages recessed contact point. Ensure contact pins of contact ring face down.

TURN SIGNAL, DIMMER SWITCH & WIPER/WASHER

Removal

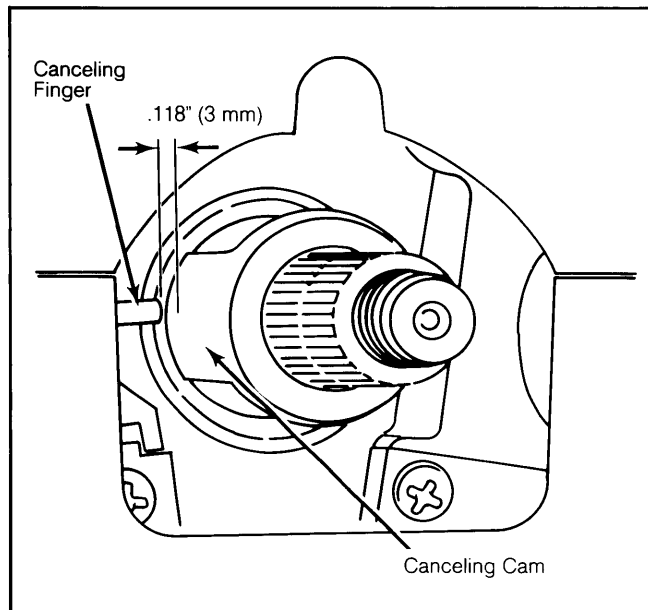
1) Disconnect battery ground cable. Loosen bottom center instrument panel trim. Remove 3 mounting screws and pull down lower shroud. Remove steering wheel as previously outlined.

2) Separate wiring from switch plate. Remove switch mounting screws. Slide off switches with harness.

Installation

To install, reverse removal procedure and note: Ensure steering wheel aligns with reference marks. Center turn signal assembly. Finger on canceling cam must face toward center. Distance between switch and finger should be about .118" (3 mm). See Fig. 2.

Fig. 2: Canceling Cam and Finger Alignment



Finger on canceling cam must face toward center.

IGNITION SWITCH

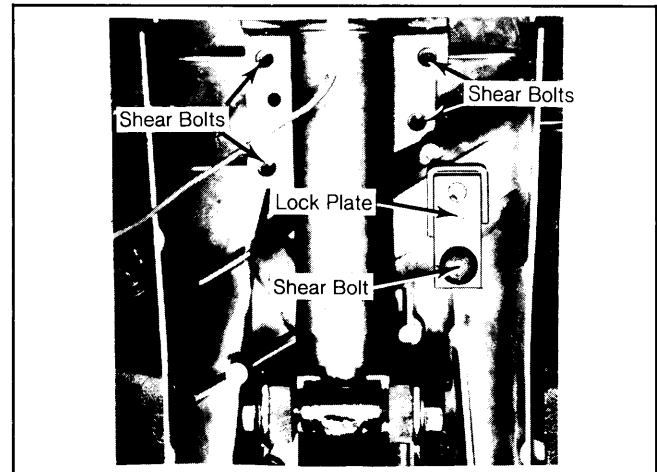
Removal

Disconnect battery ground cable. Remove turn signal mounting screws and pull off lower plastic shroud. Remove turn signal, dimmer and wiper/washer switches. Unscrew and remove flasher relay. Remove hollow set screw. Slide out ignition switch.

Installation

To install, reverse removal procedure and note following: Turn ignition key all the way back before inserting. Set ignition switch at "O" position before installing.

Fig. 3: Location of Shear Bolts



View looking up from under steering column.

STEERING LOCK

Removal

1) Disconnect battery ground cable. Remove steering wheel. Remove upper and lower steering column shrouds. Disconnect and remove turn signal, dimmer 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. Pull out steering lock.

Installation

To install, reverse removal procedure.

CHRYSLER CORP. IMPORTS

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 puller (DT-1001-A).

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.

2) To install, place front wheels in straight ahead position. On Challenger, Colt and Sapporo models, align cancel pins of column switch with holes in bottom of steering wheel.

3) On all models, refit steering wheel with index marks aligned. Tighten nut and install horn pad.