

Steering Wheel & Column Switches 10-3

ARROW & COLT

Arrow
Colt

REMOVAL & INSTALLATION

HORN BUTTON & STEERING WHEEL

Pry off horn pad. Mark relative position of steering wheel on the shaft for reassembly reference. Remove steering wheel nut, then use a suitable puller (CT-1126 for standard wheel; DT-1001 for sports type wheel) to remove the steering wheel.

CAUTION — Do not use excessive force to remove the steering wheel from the shaft.

COMBINATION SWITCH (TURN SIGNAL, WIPER/WASHER, HAZARD)

To remove the combination switch assembly, tilt steering wheel to its lowest position, remove cover from switch assembly, disconnect switch wiring and withdraw switch assembly from column.

100
Fox

REMOVAL & INSTALLATION

STEERING WHEEL & HORN CONTROL

100 — Pry off steering wheel pad toward front seat. Unscrew steering wheel nut and pull off wheel. Remove oval-head screws and washers retaining horn bar. When lifting off horn bar, note position of three springs, washers, and contact rings beneath bar.

Fox — Pull off steering wheel horn control pad by hand. Disconnect ground wire at horn button. Unscrew mounting nut and remove steering wheel.

TURN SIGNAL/DIMMER & WIPER SWITCHES

100 — With steering wheel removed, detach horn slip ring and steering column cowling. Remove horn ground contact. Pull three washers from top of steering shaft. Separate electrical connectors for switches, then remove both switch mechanisms.

AUDI

Fox — When steering wheel is removed, unscrew switch base cap and disconnect electrical plugs at both lever switches, as well as horn contact ring plug. Individual switches may now be removed from base cap.

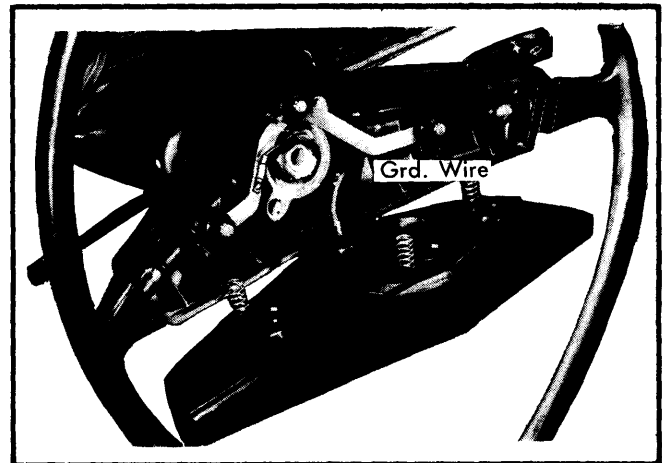


Fig. 1 Removing Horn Bar/Protective Cover from Audi Fox

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REMOVAL & INSTALLATION

STEERING WHEEL

Removal — Center steering with wheels in straight-ahead position. Remove cover from center of steering wheel by inserting a small rod into hole beneath cover (at side of wheel hub). Mark steering wheel and shaft for reference. Pull wheel from shaft.

Installation — To install, reverse removal procedure, noting reference mark made during removal.

HORN CONTROL

Removal (4 Cyl. Models) — 1) Remove steering wheel as outlined above. To replace carbon contact brush, proceed as follows: Detach brush lead from contact plate, then remove plate. Push carbon brush out of steering wheel (front to rear). Press new carbon brush into steering wheel.

BMW

2) To remove horn contact slip ring, detach upper cover from steering column, disconnect electrical lead, and remove slip ring.

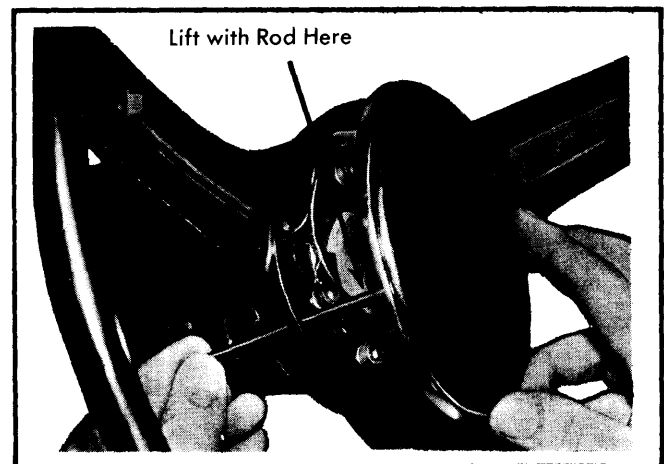


Fig. 1 Removing Steering Wheel Protective Pad

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).

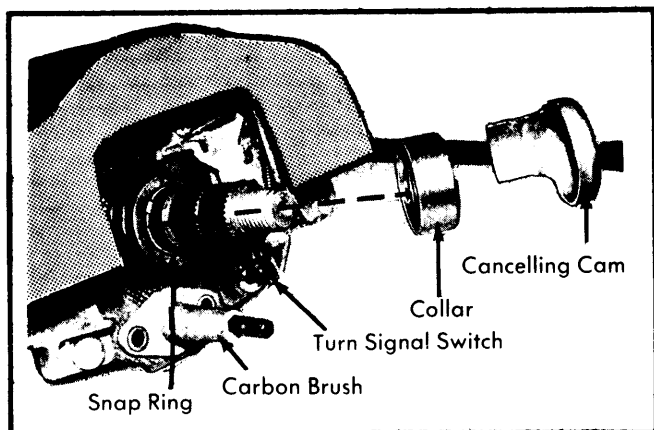


Fig. 2 BMW 6 Cylinder Column Plate Switch Shown

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.

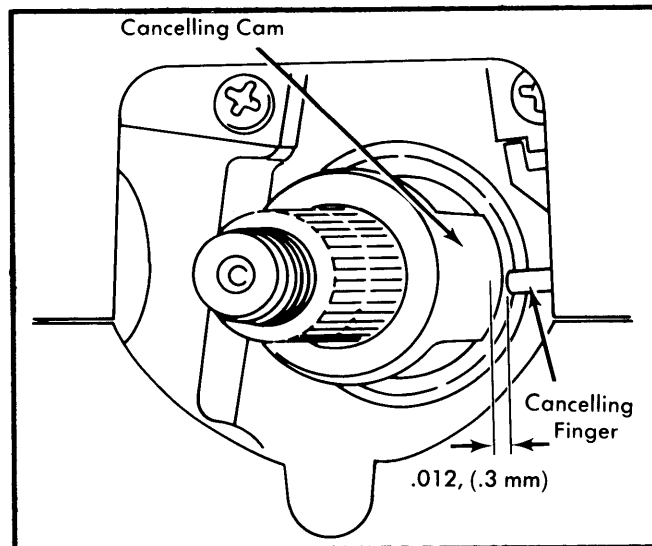


Fig. 3 Cancelling Cam and Finger with Clearance Shown

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.