

STEERING COLUMN SWITCHES

Article Text

1993 Volkswagen EuroVan
For Volkswagen Technical Site
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Saturday, March 18, 2000 10:37PM

ARTICLE BEGINNING

1993 ACCESSORIES & EQUIPMENT
Volkswagen Steering Column Switches

Cabriolet, Corrado SLC, EuroVan, Fox, Golf, GTI, Jetta,
Passat

* PLEASE READ THIS FIRST *

CAUTION: Cabriolet is equipped with Supplemental Restraint System (SRS). SRS wiring harness is routed close to instrument cluster, steering wheel, and related components. Before working on steering column components, disable air bag system. See AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

WARNING: Wait about 20 minutes after disabling air bag system. Back-up power circuit, capacitor internal to SRS unit, maintains system voltage for up to 20 minutes after battery is disconnected. Servicing air bag system before 20 minutes may cause accidental air bag deployment and possible personal injury.

REMOVAL & INSTALLATION

COMBINATION SWITCH

Removal

Remove steering wheel. Remove upper and lower steering column covers. Disconnect combination switch harness connectors. Remove snap ring and washer from steering shaft (if equipped). Remove combination switch attaching screws. Remove combination switch.

Installation

To install, reverse removal procedure. Ensure all electrical connections are tight. Check canceling operation of turn signal switch.

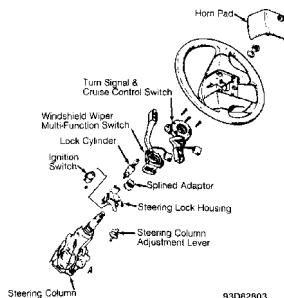


Fig. 1: Identifying Steering Wheel Components (Corrado SLC)
Courtesy of Volkswagen United States, Inc.

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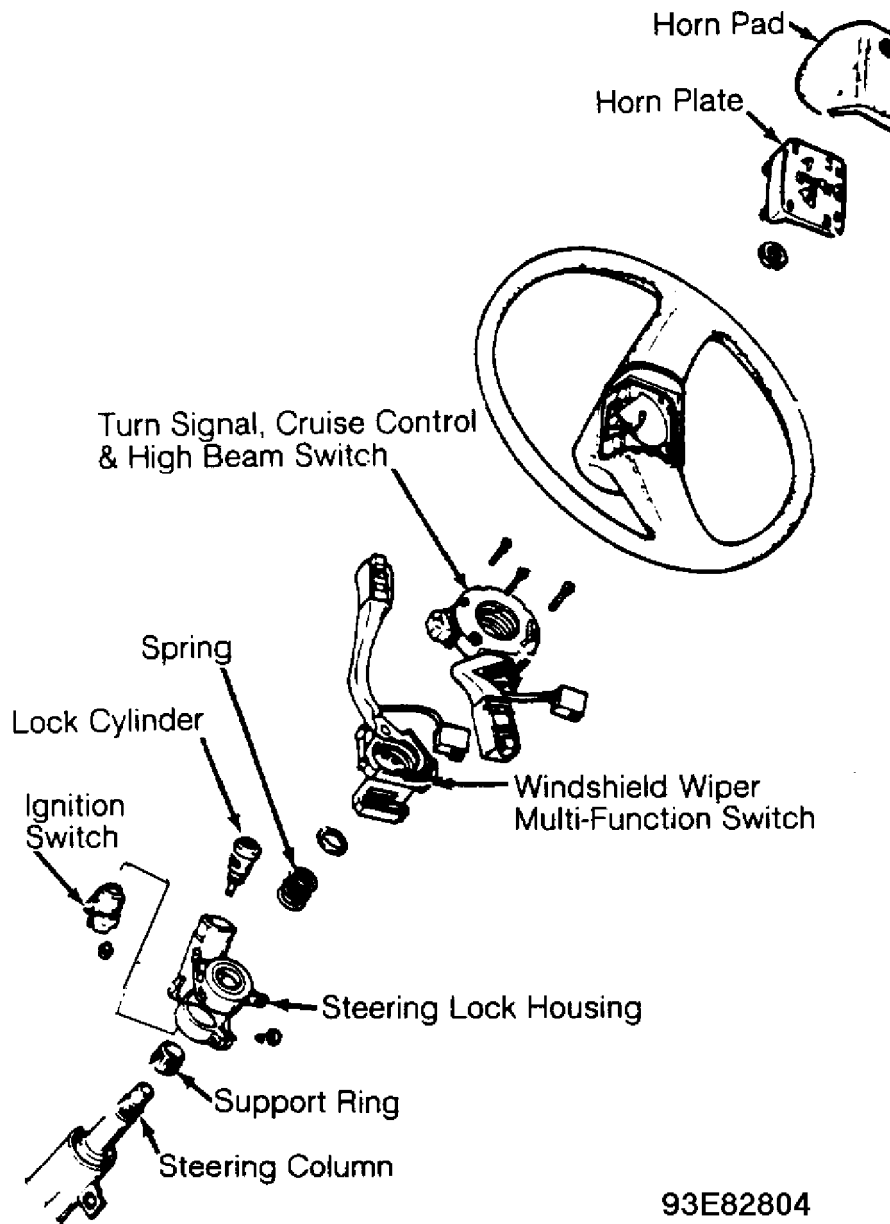


Fig. 2: Identifying Steering Wheel Components (EuroVan)
Courtesy of Volkswagen United States, Inc.

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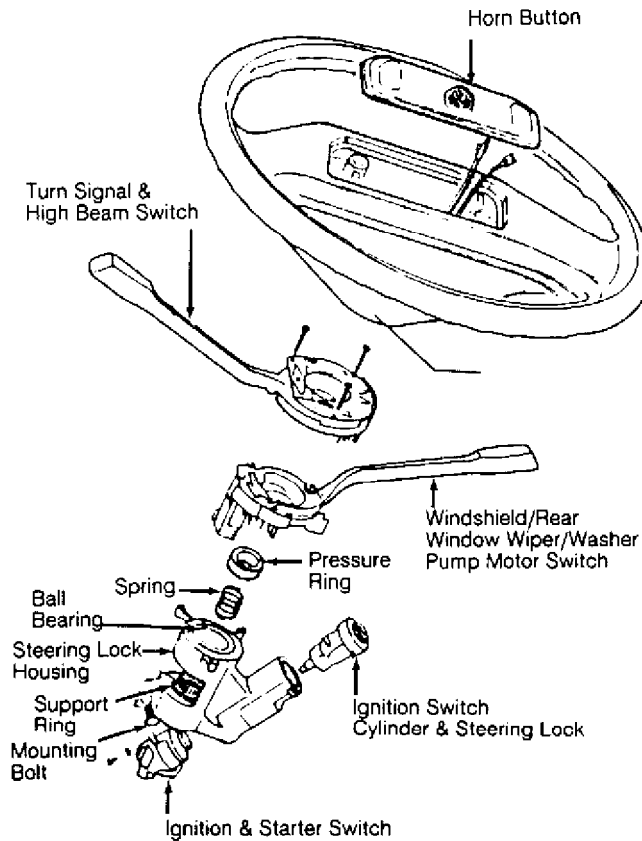
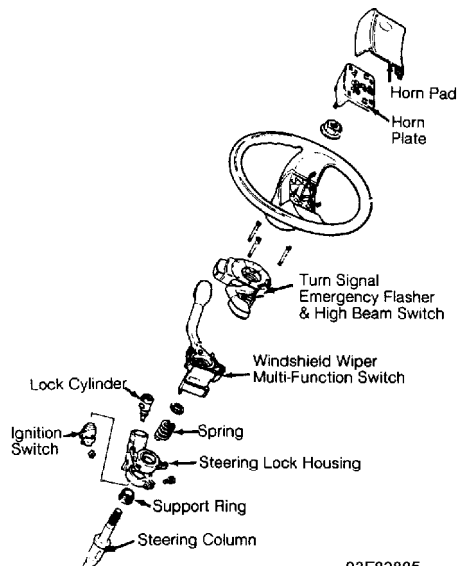


Fig. 3: Identifying Steering Wheel Components (Fox)
Courtesy of Volkswagen United States, Inc.



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Fig. 4: Identifying Steering Wheel Components
(Golf, GTI & Jetta)
Courtesy of Volkswagen United States, Inc.

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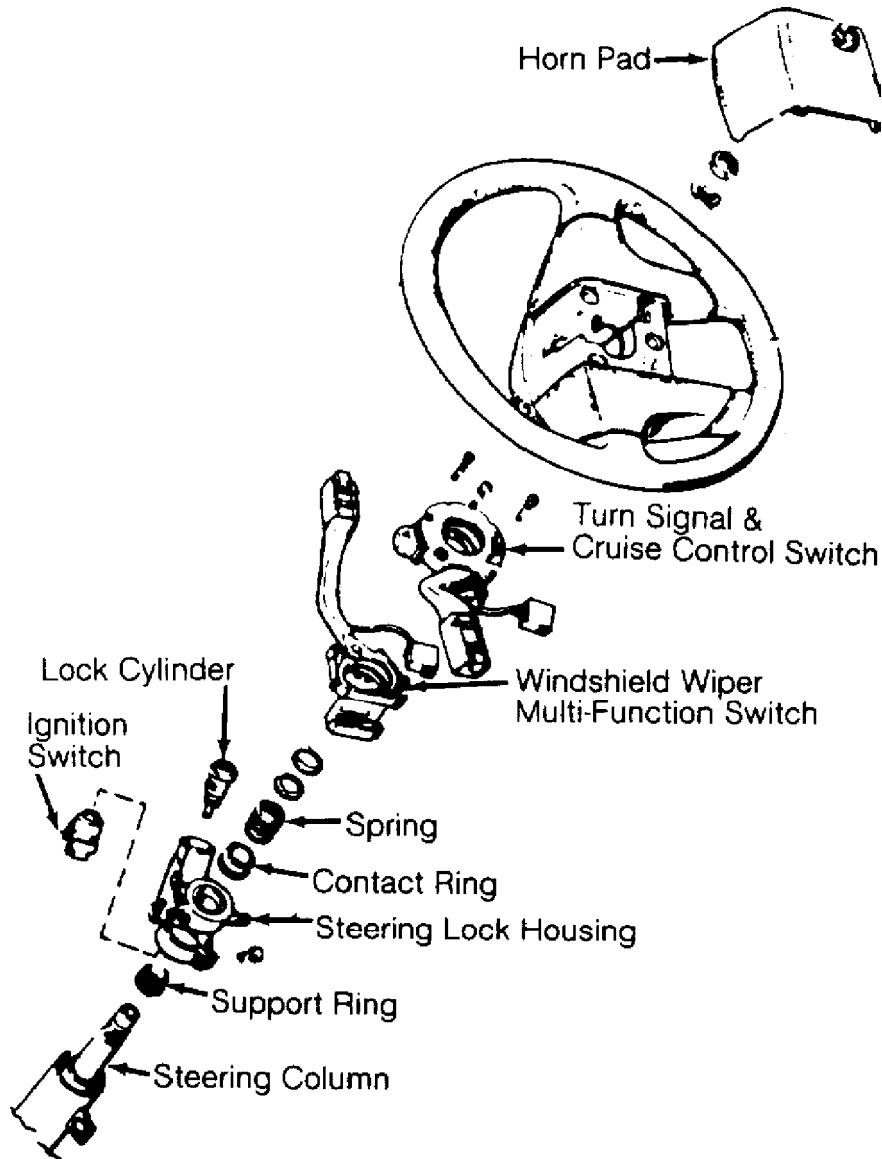
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Fig. 5: Identifying Steering Wheel Components (Passat)
Courtesy of Volkswagen United States, Inc.

LOCK CYLINDER

Removal

1) Remove steering wheel. Remove combination switch and upper and lower steering wheel covers. Mark steering lock housing at intersection of "A" and "B" for hole. See Fig. 6. "A"=12 mm; "B"=10 mm.

2) Drill 3 mm hole into steering lock housing at mark until lock cylinder stop spring is visible. Hole depth will be approximately 3 mm. Compress stop spring with punch and pull lock cylinder out.

Installation

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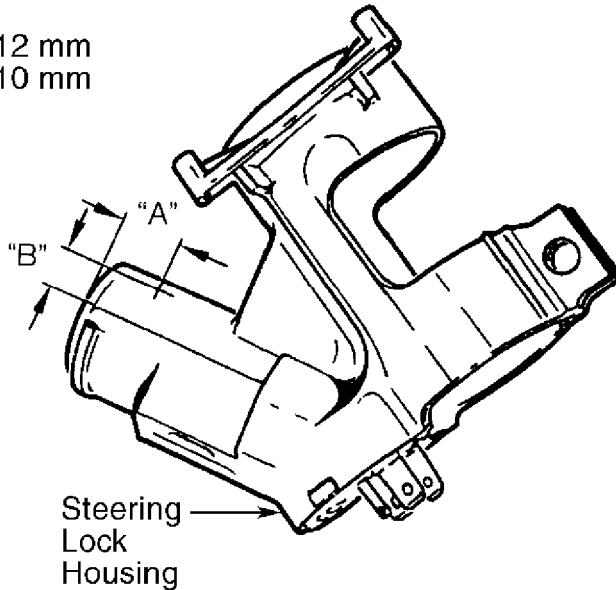
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1) Insert lock cylinder into steering lock housing. Insert key into lock cylinder. Push lock cylinder fully into housing while gently turning key.

2) Install combination switch and upper and lower steering column covers. Install steering wheel and nut. Tighten steering wheel nut to specification. See TORQUE SPECIFICATIONS table.

"A" = 12 mm

"B" = 10 mm



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Fig. 6: Drilling Steering Lock Housing
Courtesy of Volkswagen United States, Inc.

SPIRAL SPRING

Removal (Cabriolet)

Before proceeding, follow air bag service precautions. See SERVICE PRECAUTIONS in AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section. Remove steering wheel. See STEERING WHEEL. Remove knee bar panel and steering column lower trim. Disconnect 2-pin wiring connector (Green/Black and Green/Red wires) at base of steering column. Remove 3 spiral spring retaining screws, and remove spiral spring. See Fig. 7.

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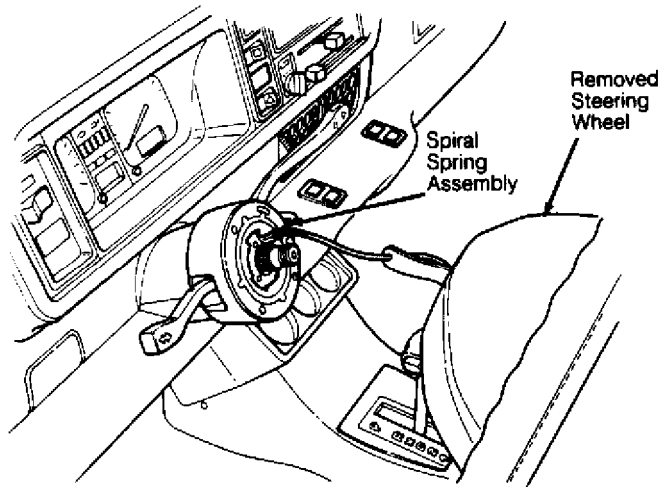


Fig. 7: Removing Spiral Spring Assembly
Courtesy of Volkswagen United States, Inc.

Installation

1) To install spiral spring assembly, reverse removal procedure. NEW spiral spring assemblies have a locking tab which locks assembly in its centered position. Locking tab must be removed before installing new spring assembly.

2) If a spiral spring assembly is reinstalled, it must be centered. To center, turn spring assembly 4 turns from stop, in either direction.

3) Reactivate air bag system. See DISABLING & ACTIVATING AIR BAG SYSTEM. Check air bag indicator lights to ensure system is functioning properly. See SYSTEM OPERATION CHECK.

STEERING WHEEL

Removal (Cabriolet)

1) Before proceeding, follow air bag service precautions. See SERVICE PRECAUTIONS in AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section. Disable air bag system. See DISABLING & ACTIVATING AIR BAG SYSTEM in AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section.

2) Turn front wheels to straight-ahead position. Remove air bag unit. See AIR BAG UNIT in AIR BAG RESTRAINT SYSTEM article in the ACCESSORIES/SAFETY EQUIPMENT section. Remove steering wheel nut and spring washer. Mark steering wheel and shaft for reassembly reference. Remove steering wheel.

Installation

To install, reverse removal procedure. Tighten steering wheel nut to specification. See TORQUE SPECIFICATIONS table. Check air bag indicator lights to ensure system is functioning properly.

STEERING WHEEL & HORN PAD

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Removal (Except Cabriolet)

1) Disconnect negative battery cable. Remove screws attaching horn button assembly/center pad to steering wheel from behind steering wheel (if equipped).

2) Pull horn button assembly/center pad from steering wheel. Use a cloth covered screwdriver to pry off horn button assembly/center pad (if necessary). Disassemble horn button assembly (if necessary).

3) Place springs, contacts, horn or cruise control harness connectors and screws in order for reassembly reference. Place wheels in straight-ahead position.

4) Remove steering wheel retaining nut and washer. Mark steering wheel and shaft for reassembly reference. Using a steering wheel puller, remove steering wheel. See Fig. 8.

5) Place steering wheel, cruise control set/resume switch (if equipped), canceling cams, springs and slip rings in order for reassembly reference.

Installation

1) Coat slip ring contact surfaces with a light electrical grease. Assemble horn button assembly (if disassembled). Ensure wheels are in a straight-ahead position.

2) Aligning marks made during removal, place slip ring, springs, canceling cams, steering wheel, washer and steering wheel retaining nut on shaft.

3) Tighten steering wheel nut to specification. See TORQUE SPECIFICATIONS table. To complete installation, reverse removal procedure.

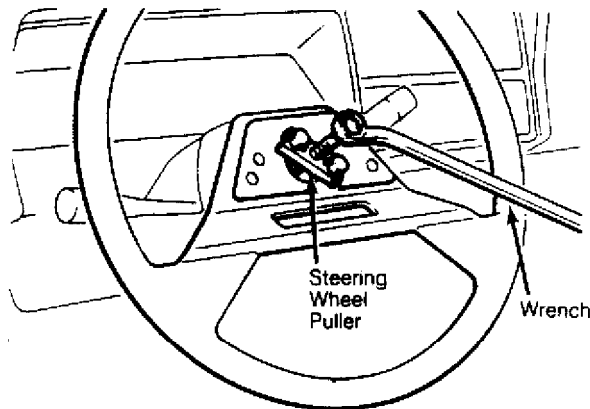


Fig. 8: Removing Steering Wheel (Typical)
Courtesy of Volkswagen United States, Inc.

STEERING LOCK & IGNITION SWITCH

Removal

1) Remove steering wheel, upper and lower steering column covers and combination switch. Disconnect ignition switch harness connectors.

2) Remove clamping washers, spring and contact ring from steering column. Remove steering lock housing mounting bolt. Remove steering lock housing from steering column.

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Installation

1) To install, reverse removal procedure. Slide steering lock housing onto steering column. Install contact ring, spring and clamping washers onto steering column. Ensure proper operation of steering lock and ignition switch.

NOTE: On Corrado SLC, pull steering column upward from steering column tube as far as possible to ensure proper column position.

2) Install combination switch, upper and lower steering column covers and steering wheel. Tighten steering wheel nut to specification. See TORQUE SPECIFICATIONS table.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Steering Wheel Nut	30 (40)
	INCH Lbs. (N.m)
Air Bag Unit-To-Steering Wheel Screws	89 (10)

END OF ARTICLE