

# 10-18 Steering Wheel & Column Switches

## VOLKSWAGEN

Type 1  
Type 2  
Dasher  
Rabbit  
Scirocco

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

**All Models** — Disconnect battery. Carefully pry off horn pad. Unscrew steering wheel retaining nut. Pull wheel upward and off the shaft.

**CAUTION** — Steering wheel or column has a collapsible section. Care must be taken when working with these components.

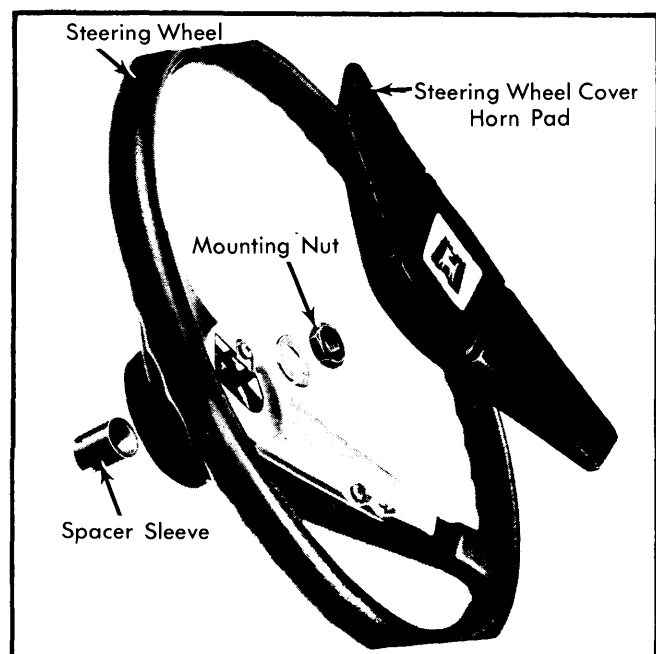


Fig. 1 Typical Volkswagen Steering Wheel Rabbit and Scirocco Shown

#### TURN SIGNAL & WIPER SWITCH

**Removal (Type 1)** — Disconnect battery ground cable. Place ignition key in "ON" position. Remove steering wheel. Remove circlip from groove below steering wheel splines. Disconnect electrical wiring from combination switch. Remove mounting bolt and pull switch assembly up and out.

**NOTE** — Wiper switch must be removed as an assembly, then separated. Be sure to release air pressure from washer reservoir before disconnecting hose from valve on switch.

**Installation** — To install, reverse removal procedure and note: Make sure turn signal wires are not crushed by windshield wiper switch. Adjust distance between steering wheel hub and steering column switch to  $\frac{1}{16}$ – $\frac{1}{8}$ " (2-4 mm) by loosening both switch mounting screws.

**Removal (Type 2)** — 1) Disconnect battery ground. Using hand pressure, lift up steering pad. Remove steering wheel mounting nut. Pull steering wheel off shaft.

2) Remove spring and spacer from top end of steering column. Remove 4 screws holding turn signal switch and wiper switch on steering lock housing. Collect 4 spacers located between switches.

3) Disconnect water hoses from valve on wiper switch. Remove turn signal switch, wiper switch and switch housing upper trim from steering column.

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

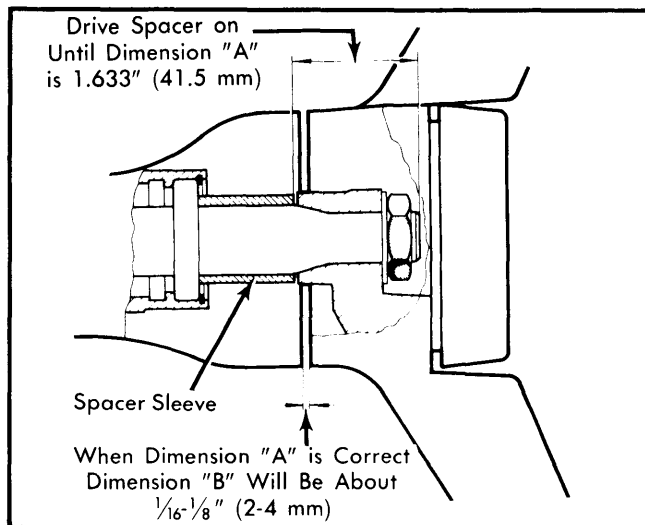


Fig. 2 Dimensions for Installing Spacer Sleeve

**Removal (Rabbit & Scirocco)** — Disconnect battery ground. Remove steering wheel. Remove 2 screws and 1 bolt from recess in switch housing bottom. Take off housing bottom half. Force switch assembly toward instrument panel as far as possible. Pry off spacer sleeve. Pull up on switch and disconnect wires. Remove switch, then separate turn signals and wipers.

**Installation** — Refit switches together with screw and spacer sleeve. Slide switch assembly onto column and hook up wires. Spacer sleeve must be installed as shown in Fig. 2.

**Removal (Dasher)** — Disconnect battery ground. Remove steering wheel. Remove 2 screws mounting lower switch housing. Disconnect electrical wires. Remove 3 screws attaching turn signal and wiper switches to ignition switch mounting. Remove switches.

**Installation** — To install, reverse removal procedures and note: Drive spacer sleeve on until upper end of spacer is flush with bevel on steering column. Make sure steering wheel is installed with lug for turn signal cancel mechanism facing left side of vehicle.

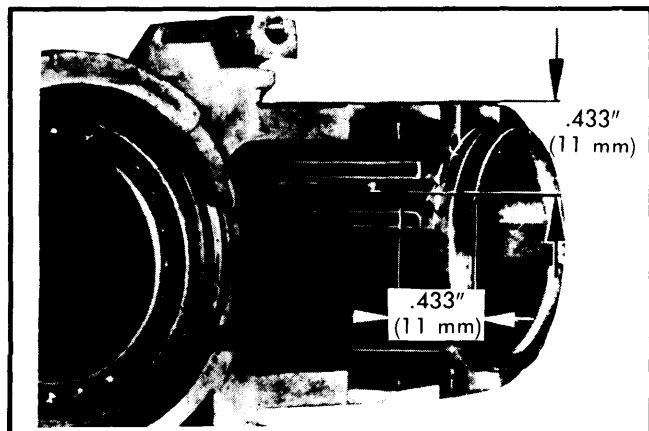
#### COLUMN LOCK & IGNITION SWITCH

**Removal (Type 1)** — 1) Disconnect battery ground. Remove steering wheel. Remove clip and plastic bushing from steering column. Remove turn signal switch and wiper switch. Remove steering lock/switch retainer plate.

2) Disconnect wiring harness from switch. If no hole is present in lock mechanism housing, one must be drilled. Refer to Fig. 3.

# Steering Wheel & Column Switches 10-19

## VOLKSWAGEN (Cont.)



**Fig. 3** Measurements for Drilling into Steering Lock Cylinder - Type 1 Only

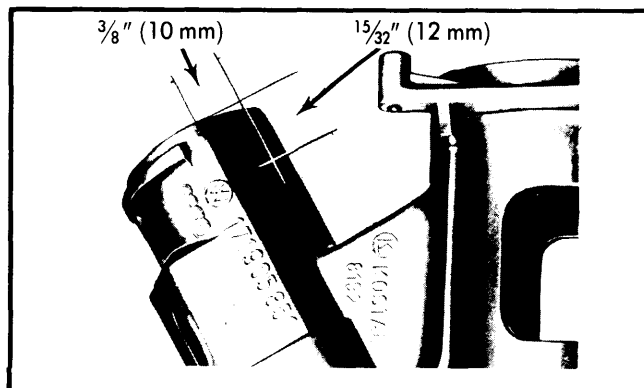
3) Using a small, pointed tool, work through drilled hole and push down on cylinder lock retaining pin. Insert ignition switch key. Turn key and pull cylinder out of housing.

**Installation** - To install, reverse removal procedure and note: Insert lock cylinder by pushing into place without key installed. Then, use key to turn cylinder to **left**. Check operation.

**Removal (All Others)** - 1) Disconnect battery ground. Remove steering wheel and switch assembly.

2) It may be necessary to drill  $\frac{1}{8}$ " hole in cylinder lock to gain access to cylinder release pin. Refer to Fig. 4 for location of access hole.

**NOTE** - On Type 2 models, hole for cylinder removal is accessible when cover plate has been removed. Note that all models may not have pre-drilled hole.



**Fig. 4** Measurements for Drilling into Steering Lock Cylinder

3) Insert a pin through hole and press down spring holding lock cylinder in housing. It may be necessary to insert key to pull out cylinder.

4) To remove ignition switch, remove shear bolt and remove switch housing. Remove set screw on back side of switch near wire connector and remove ignition switch.

**Installation** - To install, reverse removal procedure and note: Before shearing bolt head, set clearance between steering wheel and switch to .08-.12" (2-3 mm).

## VOLVO

240 Series  
260 Series

### REMOVAL & INSTALLATION

#### HORN PAD & STEERING WHEEL

**Removal** - Disconnect battery ground. Remove horn pad. Remove horn wires (if required). Remove steering wheel using suitable puller (2263 or equivalent).

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

**CAUTION** - Steering column has a collapsible section. Care must be used when working with steering assembly.

#### TURN SIGNAL & WIPER SWITCHES

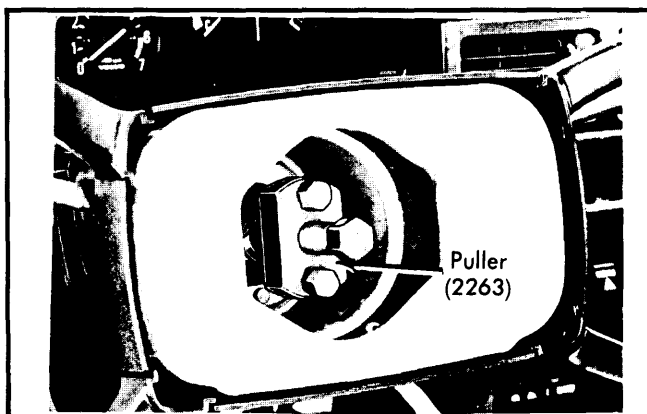
**NOTE** - Steering wheel does not have to be removed to remove combination switch; however, removal of switch is easier with steering wheel removed.

**Removal & Installation** - Remove column covers from around switches. Disconnect electrical connections from switch(es) to be replaced and remove switch(es). To install, reverse removal procedure.

### STEERING COLUMN & IGNITION SWITCH

**Removal** - Disconnect battery ground. Remove steering wheel and column covers. Remove turn signal and wiper switches. Remove upper bearing spring and race. Drill out center of shear bolts and remove with suitable screw extractor. Remove lock assembly. Disconnect electrical connections and remove ignition switch.

**Installation** - To install, reverse removal procedure and note: Position front of lock assembly 3.81" (97 mm) from upper end of steering column.



**Fig. 1** Using Puller to Remove Steering Wheel