

## STEERING COLUMN

### Article Text

1987 Volkswagen Quantum/Quantum Syncro  
For Volkswagen Technical Site  
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Sunday, March 19, 2000 01:52AM

### ARTICLE BEGINNING

1987 STEERING  
Volkswagen - Steering Columns  
  
Quantum

### DESCRIPTION

The Quantum uses a 2-piece collapsible steering column. A flange connects lower and upper column.

### REMOVAL & INSTALLATION

#### STEERING COLUMN

**CAUTION:** Steering column is designed to be collapsible upon frontal impact. Applying excessive pressure, or causing impact to mainshaft during service, may cause the column to collapse.

#### Removal

1) Disconnect battery ground cable. Remove steering wheel and combination switch. From inside engine compartment, remove clamp bolt retaining steering shaft clamp to steering gear pinion shaft. Remove column cover bolts and steering column covers. See Fig. 1.

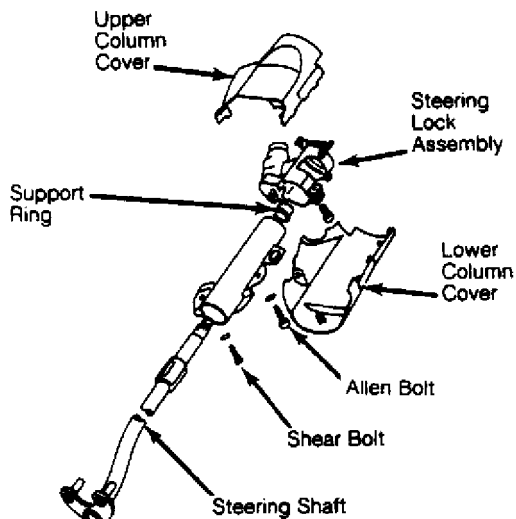


Fig. 1: Exploded View of Upper Steering Column

2) Pry lock washer from steering shaft. Remove spring. Remove contact ring and steering lock assembly. Remove support ring from column tube. See Fig. 1.

3) Punch and drill out shear bolt retaining column tube to dash. Remove Allen bolt. Remove dust boot from floorboard. Remove steering column tube and shaft as an assembly.

## STEERING COLUMN

### Article Text (p. 2)

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#### Installation

1) Install assembled steering column into vehicle. Install shear bolt and Allen bolt finger tight. Fit dust boot into floorboard. Place clamp onto steering gear pinion shaft.

2) Place support ring into column tube. Install steering lock assembly onto steering column. Install contact ring, spring and new lock washer. Tighten Allen bolt. Tighten shear bolt until head snaps off.

3) Install upper and lower column covers. Install column switches and steering wheel.

## OVERHAUL

### STEERING COLUMN

#### Disassembly

1) Remove lower flange tube clamp bolt from lower steering shaft. Separate flange tubes and remove bearing flange, bearing, support ring, spring and washer. See Fig. 2.

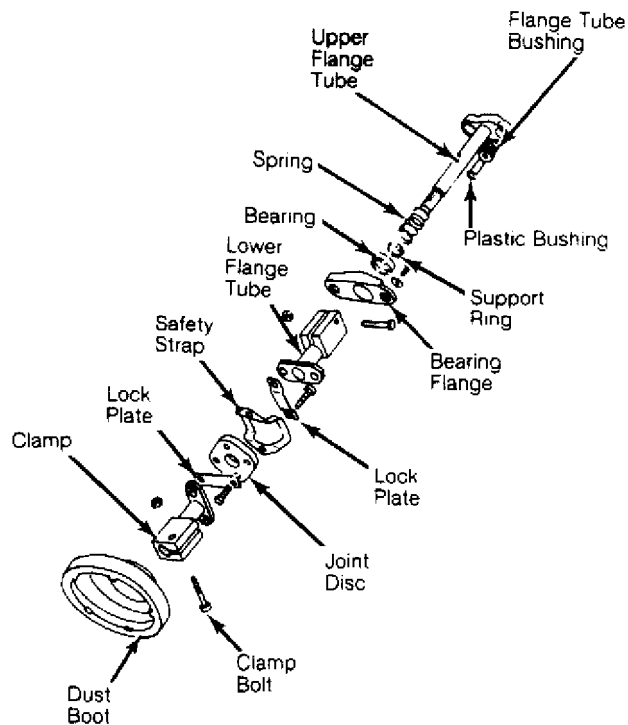


Fig. 2: Exploded View of Lower Steering Column

2) Push upper flange tube toward steering shaft until components can be separated. Remove flange tube bushings with plastic bushings. See Fig. 2. Remove joint disc bolts and pinion clamp bolt. Slide column tube from steering shaft. See Fig. 1.

#### Inspection

Check joint disc, safety strap and lock plates for damage

## STEERING COLUMN

### Article Text (p. 3)

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or wear. Check steering shaft, support ring and steering lock assembly for wear or damage. Replace components as necessary.

#### Reassembly

To reassemble steering column, reverse disassembly procedure. Press flange tube bushing and plastic bushing in by hand.

#### TORQUE SPECIFICATIONS TABLE

AA

Application	Ft. Lbs. (N.m)
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Allen Bolt .....	15 (20)
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Clamp Bolt .....	22 (30)
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Lock Plate Bolts .....	18 (24)
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Lower Flange Tube Bolt .....	22 (30)
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Steering Wheel Retaining Nut .....	29 (39)
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END OF ARTICLE