

Steering Columns

VOLKSWAGEN TYPE 1

Type 1

DESCRIPTION

The steering column has an energy-absorbing, expanded metal section at the lower end of the column which will collapse on impact. At the upper end of the steering column, the steering wheel is mounted on a collapsible hub, designed to absorb driver impact.

REMOVAL & INSTALLATION

Removal — 1) Disconnect battery ground strap. Remove fuel tank. Unscrew nut from column pinch clamp at flexible coupling. Bend up tab on support ring and remove ring (above expanded metal section, on engine side of firewall).

2) Remove steering wheel and upper column circlip. Turn ignition to "ON" position. Release air pressure from windshield washer reservoir. Disconnect all wiring and hoses from column switches. Remove the two upper column support bolts.

3) Pull column assembly up into passenger compartment. Remove bolt holding column switch to tube and remove switch. Pull tube from column shaft.

Installation — 1) Install switch assembly on column tube and align in original position. Torque socket head screw (located on underside of switch assembly, diagonally opposite to ignition switch). Install seal on lower end of column tube.

2) Position contact ring on steering column, then insert column into tube from below and secure it with circlip at top end. Install column assembly into vehicle, positioning column clamp without pinch bolt. Set front wheels in straight-ahead position and slide column onto flexible coupling. Install clamp bolt with a new self-locking nut.

3) Place support ring above energy-absorbing section and bend down the locking tab. Loosely install column support mounting bolts. Position steering wheel (ensure front wheels are still in straight-ahead position) with spokes horizontal. Install and tighten wheel nut. Adjust gap between steering wheel hub and column switch assembly to .08-.16" (2-4 mm) by moving column tube. Reconnect all wiring and hoses to column.

TIGHTENING SPECIFICATIONS

| Application | Ft. Lbs. (mkg) |
|---|----------------|
| Steering Wheel Nut | 36 (4.98) |
| Flexible Coupling Clamp Bolt | 18 (2.49) |
| Socket Head Screw (Switch Assembly) | 4-7 (.55-.97) |
| Column Support Bolts | 11 (1.52) |

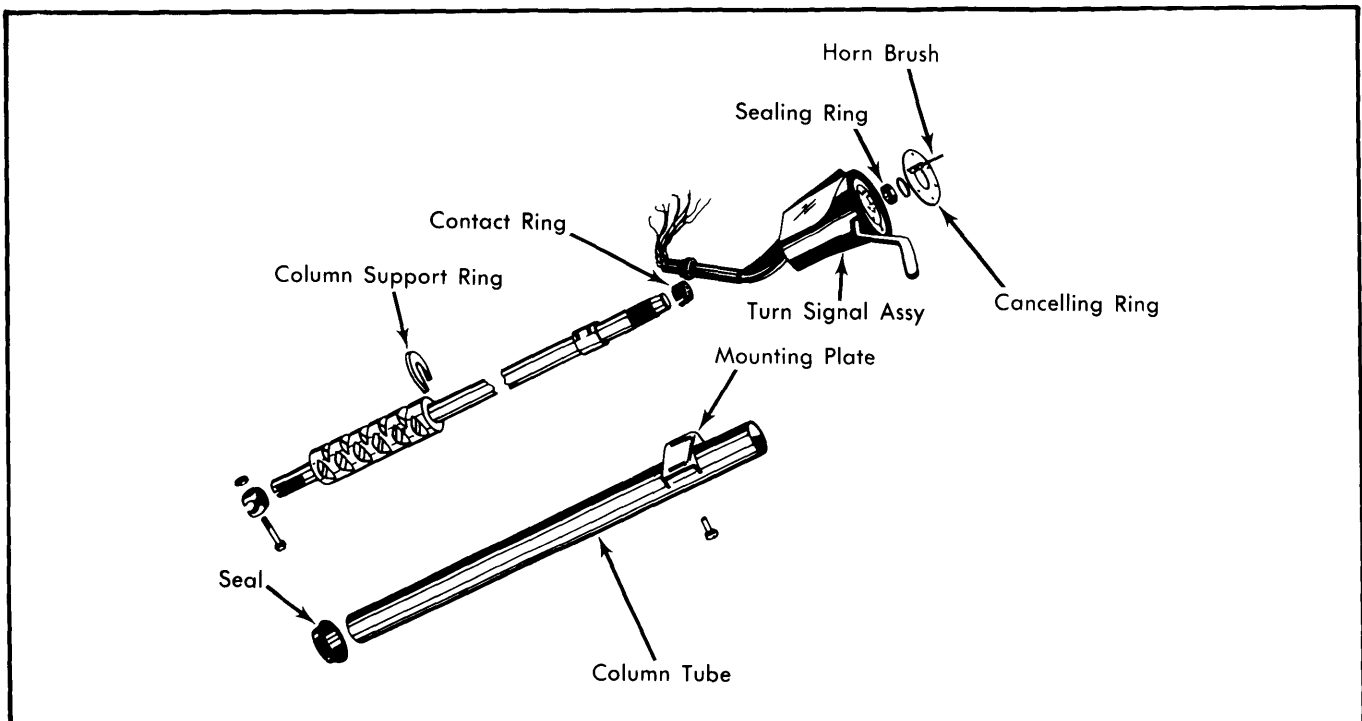


Fig. 1 Volkswagen Type 1 Steering Column and Related Components