

# Steering Columns

## DATSUN 200SX, 210, 310, 510 & 810

200SX  
210  
310  
510  
810

### DESCRIPTION

Steering columns used on these Datsun vehicles are safety, collapsible type. These columns compress on impact. 310 model uses 2 universal joints between column and steering gear. These joints provide the most desirable steering wheel position and angle. On all other models, a flexible rubber coupling attaches column to steering gear assembly.

### REMOVAL & INSTALLATION

**NOTE** — During any service procedure involving the steering assembly, do not hammer or exert extreme pressure on the steering column or damage to the collapsible section may result.

**Removal (310) — 1** Disconnect lower column "U" joint from steering gear assembly. Remove steering wheel. See Datsun under *STEERING WHEEL & COLUMN SWITCHES* in this Section.

**2)** Remove steering column cover. Separate turn signal switch assembly and combination light switch from column.

**3)** Hold steering column upper portion by hand. Remove upper and lower steering column clamp mounting bolts. Remove screws keeping column hole cover assembly to instrument panel. Slide out steering column through passenger compartment.

**NOTE** — Do not further disassemble collapsible steering column. If components are damaged and require replacement, entire assembly must be replaced.

**Inspection — 1)** Check column bearings for smooth even operation. If necessary, grease bearings with suitable lubricant.

**2)** Check column tube for deformation or breaks. Replace components as required.

**3)** If vehicle has been involved in a collision, check steering column dimensions "A" and "B". Fig. 1. Dimension "A" should be 24.04-24.16" (610.7-613.7 mm). Dimension "B" should be 16.56-16.67" (420.5-423.5 mm). If either dimension is not within specifications, replace steering column assembly.

**4)** Check distance from lower "U" joint centerline to end of splined shaft. If distance is not 5.77-5.85" (146.5-148.5 mm), replace lower "U" joint.

**Installation — 1)** Set steering gear in straight-ahead position. Connect lower joint to steering column. Slide steering assembly through hole in floor board.

**2)** Tighten column tube mounting bolts. Loosen splined shaft set screw and connect shaft to joint. Connect opposite end to steering gear. Tighten pinch bolt and set screw.

**3)** Make sure column tube hole seal is not twisted and that lower lip makes contact with joint shaft.

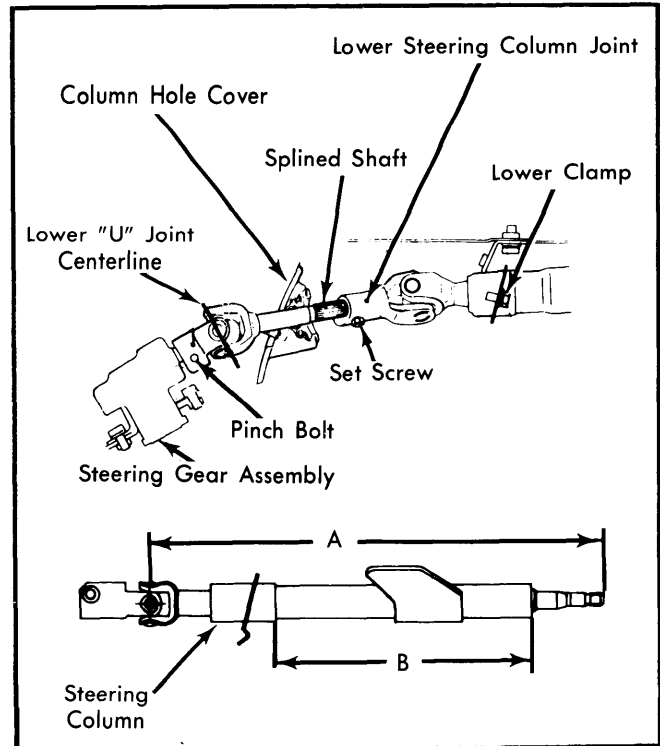


Fig. 1 Datsun 310 Steering Column Assembly

**Removal (Except 310) — 1)** Remove steering shaft pinch bolt. Remove steering wheel. See Datsun under *STEERING WHEEL & COLUMN SWITCHES* in this section.

**2)** Remove upper and lower steering column shroud covers. Loosen screws and take off turn signal switch or combination switch assembly.

**3)** Remove bolts mounting steering column tube cover to floor-board. From under instrument panel, remove bolts mounting column clamp and remove clamp. Pull steering assembly from vehicle by removing it through passenger compartment.

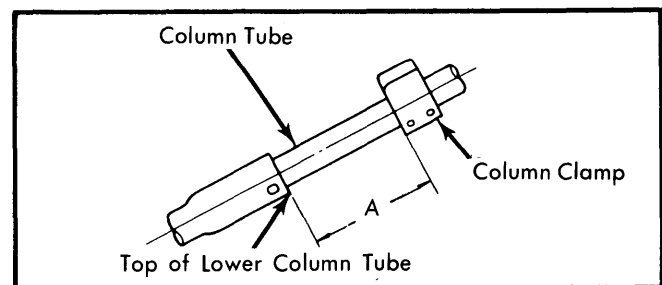
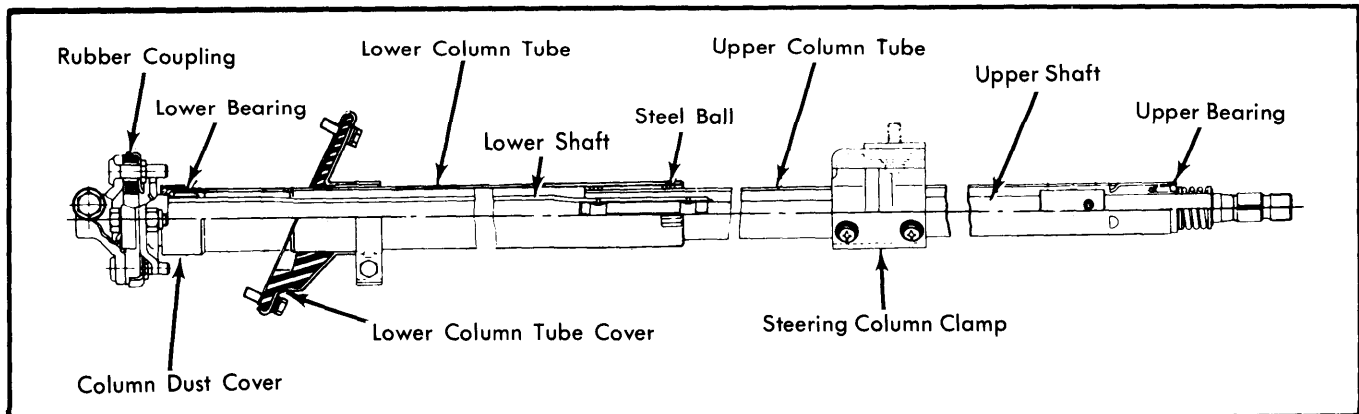


Fig. 2 Column Tube Measurement Specification

**Inspection — 1)** Check column bearings for smooth even operation. If necessary, grease bearings with suitable lubricant.

**2)** Check column tube for deformation or breaks. Replace components if necessary.

## DATSUN 200SX, 210, 310, 510 & 810 (Cont.)



**Fig. 3 Sectional View of Datsun Collapsible Steering Column (All Except 310)**

3) Check column shaft spring and replace spring if it seems weak.

4) On all models except 810, measure distance between column clamp and top end of lower column tube. Distance should be 7.04" (179 mm) for 200SX, 7.52" (191 mm) for 210 or 7.25" (184 mm) for 510 models. Fig. 2

5) On 810 models, measure distance between top end of upper column tube and top end of lower column tube. Distance should be about 16.27" (413.5 mm).

**Installation** — 1) Place steering gear so wheels point straight-ahead.

2) Slide steering column into position through passenger compartment. Guide column over worm shaft. Make sure punch mark faces up, then tighten pinch bolt.

3) Fix column under instrument panel. Refit column tube cover at floor board. Reverse removal procedure for remaining components. Make sure steering wheel rotates freely.

### OVERHAUL

**NOTE** — This article does not outline an overhaul procedure; it is recommended that, should damage to the column occur, it be replaced as an assembly.

### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Steering Wheel Nut	
210, 510 & 810 .....	27-38 (3.7-5.3)
200SX & 310 .....	22-25 (3.0-3.5)
Steering Column Clamp Bolts	
210, 510 & 810 .....	9-13 (1.2-1.8)
200SX .....	11-13 (1.5-1.8)
310 .....	6.5-10 (0.9-1.4)
Rubber Coupling-to-Worm Shaft .....	29-36 (4.0-5.0)
Upper Joint Shaft-to-Column Bolt	
310 .....	14-17 (1.9-2.4)
Lower Joint-to-Steering Gear	
310 .....	14-17 (1.9-2.4)