

Steering Columns

DATSUN 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 Remove joint cover and bracket bolts. Remove column mounting bolts and remove steering column through passenger compartment.

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.

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

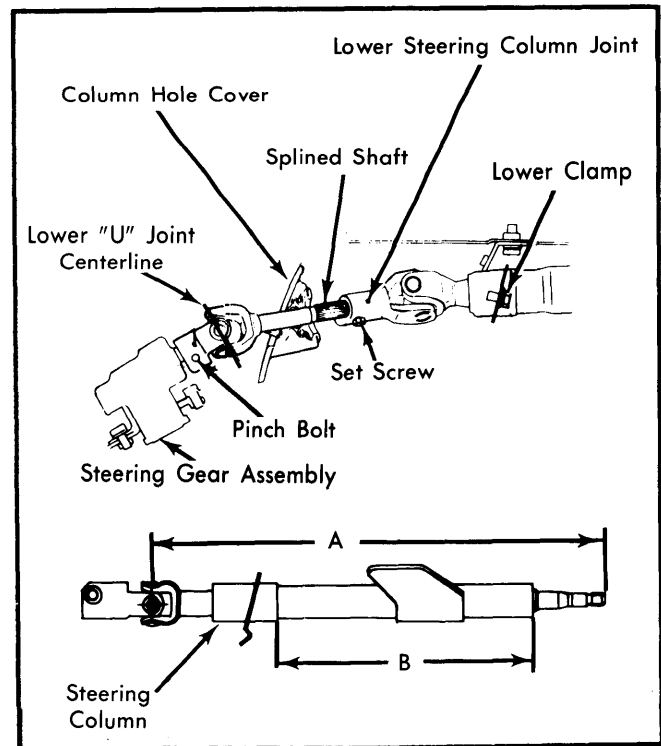


Fig. 1 Datsun 310 Steering Column Assembly

2 Remove upper and lower steering column shroud covers. Loosen screws and take off turn signal switch or combination switch assembly. Remove heater duct from dash panel side (this is necessary on 200SX models only).

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

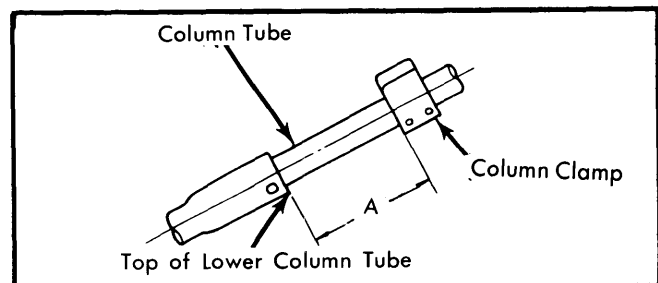


Fig. 2 Column Tube Measurement Specification

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.)

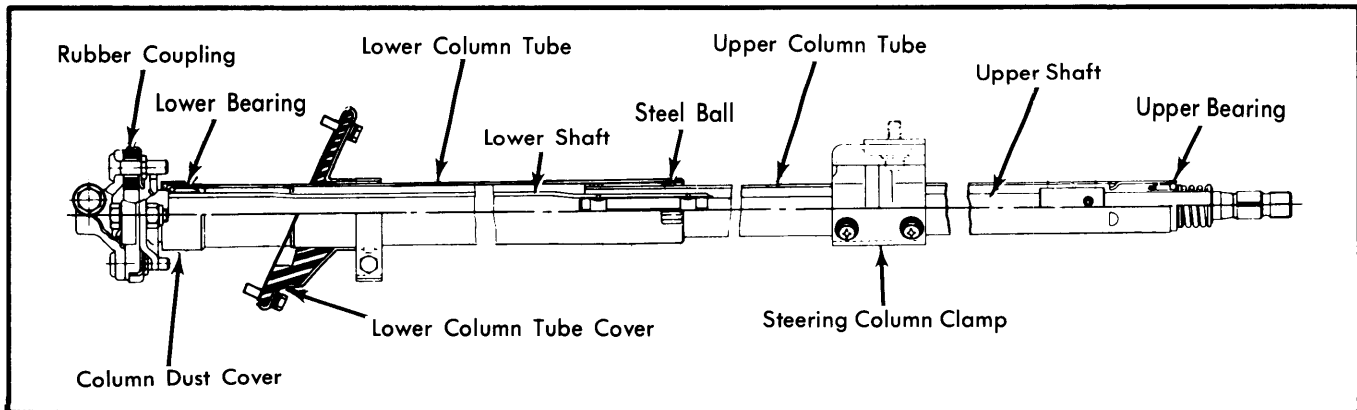


Fig. 3 Sectional View of Datsun Collapsible Steering Column (All Except 310)

3) Check column shaft spring and replace spring if it seems weak. Check for any space between the column tube bracket and the block (mounted in the bracket.) If there is any clearance between block and bracket, steering column has been damaged and must be replaced.

4) On all models except 810, measure distance between column clamp and top end of lower column tube. Distance should be 7.52" (191 mm) on 210 models or 7.24" (184 mm) on 510 models. Distance for 200SX manual steering should be 7.05" (179 mm) and 7.09" (180 mm) for power steering. See 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.

NOTE - On 200SX models with power steering, a special steering column centering band is used. Centering band is installed to column in place of column band prior to column installation and then removed and replaced with column band after installation.

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 - 200SX, 210, 510 and 810 models do not have an overhaul procedure; it is recommended that, should damage to the column occur, it be replaced as an assembly.

Disassembly (310 Models Only) - On steering column shaft, remove snap ring. Remove washer and pull column shaft out of column tube, from the bottom of column tube. Remove "O" ring. Inspect column tube and shaft for excessive wear or damage. Replace as necessary.

Reassembly - Install new "O" ring, then slide column shaft into column tube, from bottom. Install washer, then install snap ring. Make sure column shaft rotates easily in column tube.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Steering Wheel Nut	
310	22-25 (3.0-3.5)
All Others	27-38 (3.7-5.3)
Steering Column Clamp Bolts	
310	6.5-10 (0.9-1.4)
All Others	9-13 (1.2-1.8)
Rubber Coupling-to-Worm Shaft	
Manual Steering	29-36 (4.0-5.0)
Power Steering	24-28 (3.3-3.9)
Joint Shaft-to-Column Bolt	
310 (Upper and Lower)	17-22 (2.4-3.0)