

Steering Columns

TOYOTA CELICA, CRESSIDA, LAND CRUISER, PICKUP, STARLET & TERCEL

DESCRIPTION

Steering columns used on these models are of the collapsible 2-piece design. Columns use shear pins to absorb collision impact. Steering shaft is connected directly to steering gear with flexible couplings on Celica and Cressida models.

Starlet, Tercel and Pickup models use intermediate steering shafts. On 2-WD Pickup models, intermediate shaft is connected to steering gear by a flexible coupling. On Land Cruiser, Starlet, Tercel and 4-WD Pickup models, intermediate shaft is connected to steering gear and to main steering shaft by universal joints.

NOTE: For models with Tilt Wheel steering columns, see Tilt Wheel Steering Columns article in this Section.

2) On all models, remove upper and lower steering column covers. Remove combination switch. On Land Cruiser, Starlet, Tercel and 4-WD Pickups, mark position of "U" joints-to-shafts and remove intermediate steering shaft.

3) On all other models, mark position of flexible coupling-to-steering gear and remove flexible coupling bolt. Remove floor pan cover bolts and column bracket bolts. Remove steering column toward inside of vehicle.

NOTE: Remove steering column with intermediate shaft attached on 2-WD Pickup models.

Installation

To install steering column, reverse removal procedures. Make sure "U" joint and flexible coupling alignment marks (made upon removal) are correctly aligned.

REMOVAL & INSTALLATION

STEERING COLUMN

Removal

1) Disconnect battery cable. Remove steering wheel. On Cressida models, remove fuse box cover, lower instrument trim panel and heater duct (located under steering column).

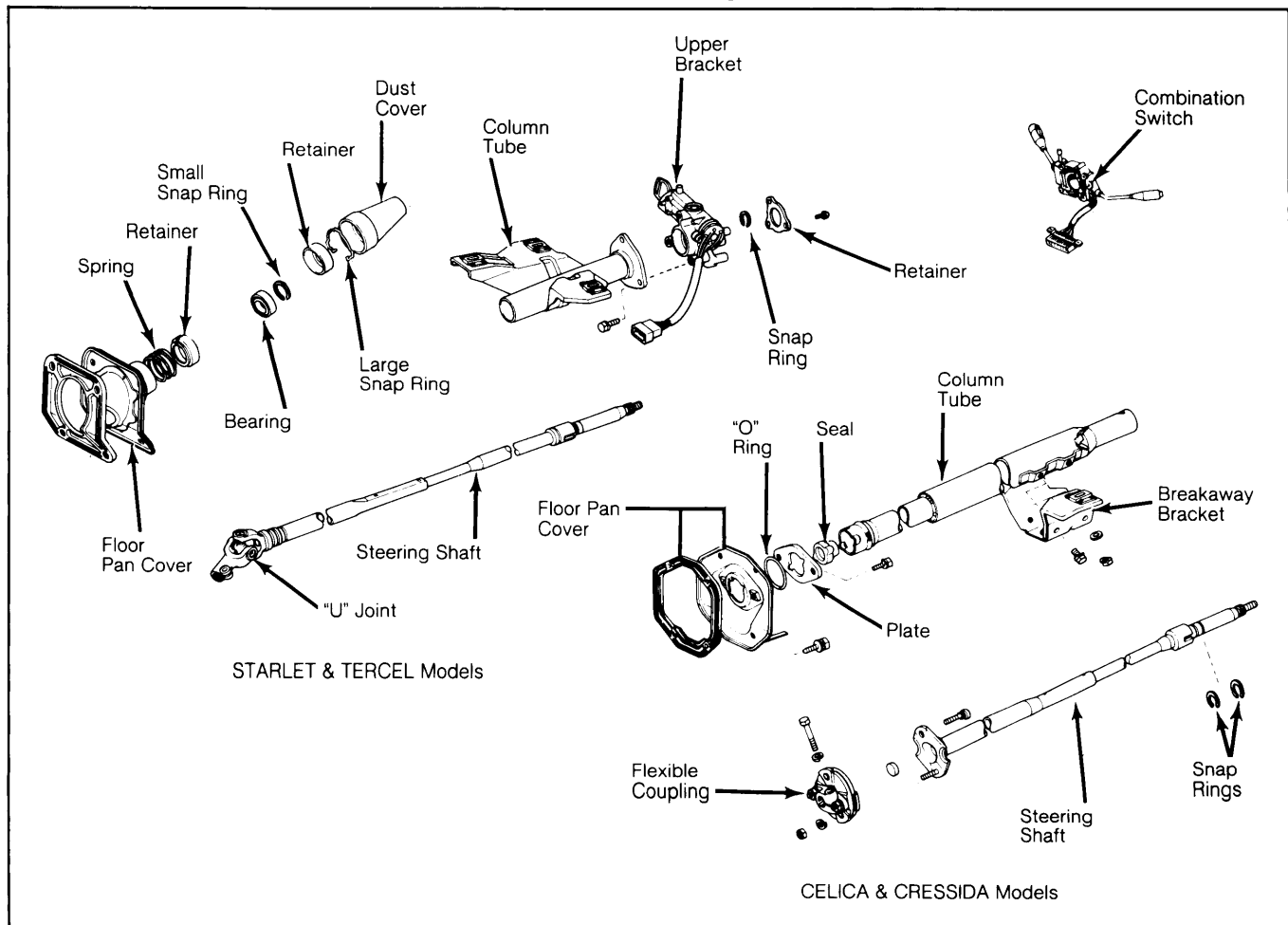
OVERHAUL

STEERING COLUMN

Disassembly

1) Remove bearing retainer and snap ring from upper end of column tube. On Starlet and Tercel models,

Fig. 1: Exploded View of Celica, Cressida, Starlet and Tercel Steering Columns



Steering Columns

TOYOTA, CELICA, CRESSIDA, LAND CRUISER, PICKUP, STARLET & TERCEL (Cont.)

remove upper bracket from column tube. On all models, pull steering shaft out bottom of column tube.

2) On 2-WD Pickups, mark main steering shaft-to-intermediate shaft position. Remove snap ring and separate intermediate shaft from steering shaft. Be careful not to lose bearing blocks (located on intermediate shaft).

3) On Celica, Cressida and 2-WD Pickups, remove flexible coupling from steering shaft. On all models (except Starlet and Tercel), remove upper bracket from column tube.

4) On Celica models, upper bracket bolts have to be drilled and removed with a screw extractor. On Starlet and Tercel models, remove dust cover, compress shaft toward floor pan cover and remove large snap ring.

5) Remove spring retainer, and again compress shaft to remove small snap ring. Remove bearing, spring retainer and spring. Remove floor pan cover from steering shaft.

6) On all other models, separate floor pan cover from column tube plate and be careful not to damage "O" ring (dust seal on Land Cruiser and 4-WD Pickup models). On Celica and Cressida, remove bracket from column tube. Remove plate and seal from bottom of column tube.

7) On 2-WD Pickups, remove plate spring, bearing retainers and bearing from bottom of column tube. On Land Cruiser and 4-WD Pickups, remove bolt from column support tube clamp.

8) Remove column support tube from column tube. Remove snap ring and bearing from column support tube.

Inspection

1) Inspect all components for wear or damage. Check bearings for smooth operation. Check steering shafts for collision damage. Check steering lock mechanism (located in upper bracket) for proper operation. Replace components as necessary.

2) On 2-WD Pickups, temporarily assemble main steering shaft to intermediate shaft and measure amount of radial play between shafts. Allowable limit is .0024" (.06 mm). Replace pin and bearing blocks, if necessary.

NOTE: If replacing pin and bearing blocks, make sure new bearing blocks have the small anti-rattle rubber inserts installed before assembling intermediate shaft to main steering shaft, otherwise steering shafts will rattle when installed in vehicle.

3) On Land Cruiser and Starlet, Tercel and 4-WD Pickups, check "U" joints for excessive axial play. Maximum play is .002" (.05 mm). Replace "U" joint, if necessary.

Reassembly

1) To reassemble steering columns, reverse disassembly procedures. Grease main steering shaft and all bearings. When installing upper bracket on Celica models, use new shear bolts. Tighten bolts until head shears off.

2) Make sure marks made to flexible couplings and to "U" joints are aligned. Make sure steering column and shafts do not bind after installation.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Column Bracket	15-22 (20-30)
Flexible Coupling	15-22 (20-30)
Steering Wheel	22-29 (30-39)
"U" Joint Bolts	22-33 (30-45)

Fig. 2: Exploded View of Pickup Steering Columns

