

1999-2000 STEERING**Steering Columns - Standard****DESCRIPTION & OPERATION**

Steering column is a collapsible 2-piece design. Columns use shear pins to absorb collision impact. Steering shaft is connected directly to steering gear with either a flexible coupling or "U" joint. Some models have an air bag integral with the steering wheel pad.

NOTE: For models with tilt wheel steering columns, see appropriate **STEERING COLUMNS - TILT WHEEL** article.

WARNING: To avoid injury from accidental air bag deployment, read and carefully follow all **SERVICE PRECAUTIONS**. Deactivate air bag system before performing any repairs. See **DISABLING & ACTIVATING AIR BAG SYSTEM** .

SERVICE PRECAUTIONS

Observe the following precautions when servicing Supplemental Restraint System (SRS):

- Disable SRS before servicing any SRS or steering column component. Failure to do this could result in accidental air bag deployment and possible personal injury. See **DISABLING & ACTIVATING AIR BAG SYSTEM** .
- Remove air bag sensor assembly/center air bag sensor and front air bag sensors if repairing the vehicle requires impacting (shocking) the vehicle.
- Replace dropped, cracked, dented or otherwise damaged components.
- DO NOT expose front air bag sensors, air bag sensor assembly/center air bag sensor or steering wheel pad (air bag module) directly to heat or flame.
- Information labels are attached to air bag components. Follow all notices on labels.
- After work on SRS is completed, check air bag warning light to ensure system is functioning properly. See appropriate **AIR BAG RESTRAINT SYSTEMS** article in **ACCESSORIES & EQUIPMENT**.
- Always wear safety glasses when servicing or handling an air bag.
- When placing a live air bag on a bench or other surface, always face air bag and trim cover upward, away from surface. This will reduce motion of module if it is accidentally deployed.
- Carry a live air bag module with trim cover (air bag) pointed away from your body to minimize injury in case of accidental deployment.
- If SRS is not fully functional for any reason, vehicle should not be driven until system is repaired and becomes operational. DO NOT remove bulbs, modules, sensors or other components or in any way disable system from operating normally. If SRS is not functional, park vehicle until it is repaired and functions properly.

DISABLING & ACTIVATING AIR BAG SYSTEM

WARNING: Back-up power supply maintains SRS voltage for about 90 seconds after battery is disconnected. After disabling SRS, wait at least 90 seconds before servicing SRS to prevent accidental air bag deployment and possible personal injury.

DISABLING SYSTEM

Turn ignition switch to LOCK position. Disconnect and shield negative battery cable. Wait at least 90 seconds before working on system. Remove steering wheel pad (air bag module). See **STEERING WHEEL & AIR BAG** under REMOVAL & INSTALLATION.

ACTIVATING SYSTEM

Install steering wheel pad. Reconnect negative battery cable. Perform system operation check. See appropriate AIR BAG RESTRAINT SYSTEMS article in ACCESSORIES & EQUIPMENT.

ADJUSTMENTS

SPIRAL CABLE

On vehicles equipped with air bag system, spiral cable must be correctly adjusted to ensure proper air bag operation. Ensure front wheels are in straight-ahead position. Turn spiral cable (located on combination switch) counterclockwise by hand until it becomes difficult to turn. Turn spiral cable clockwise about 2.5 turns and ensure marks align. See **Fig. 1** .

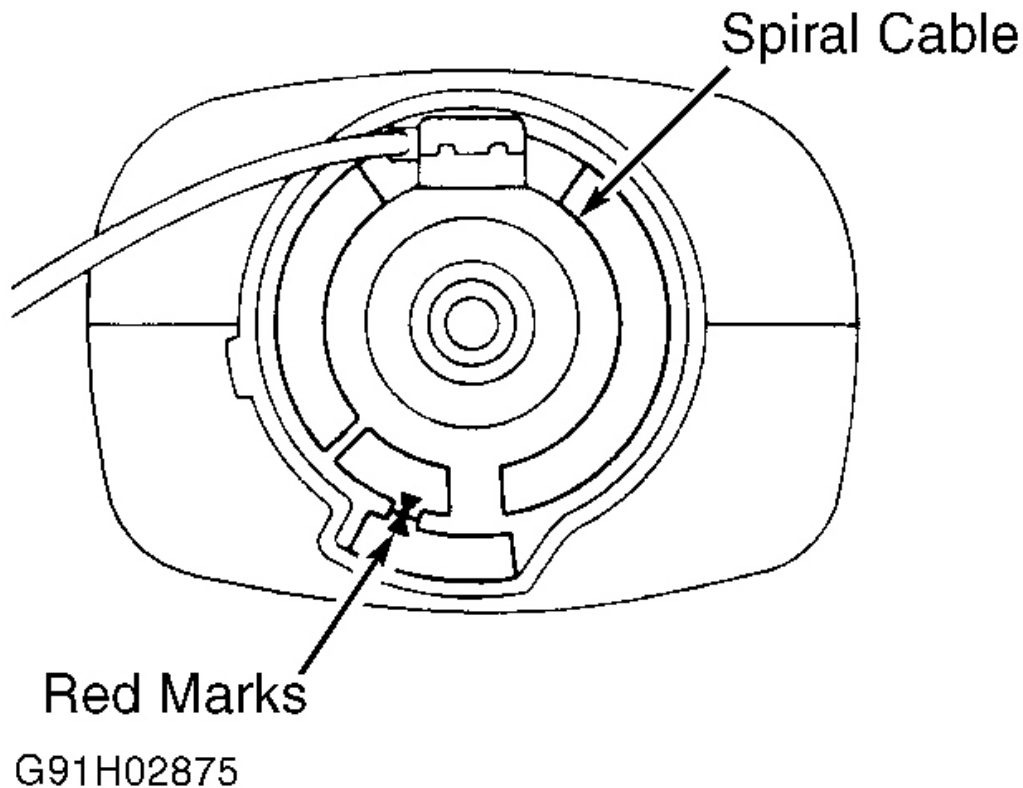


Fig. 1: Adjusting Air Bag Spiral Cable (Typical)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

REMOVAL & INSTALLATION

WARNING: Failure to follow air bag service precautions may result in air bag deployment and personal injury. See SERVICE PRECAUTIONS . After component replacement, perform a system operational check to ensure proper system operation. See appropriate AIR BAG RESTRAINT SYSTEMS article in ACCESSORIES & EQUIPMENT.

STEERING WHEEL & AIR BAG

NOTE: See DISABLING & ACTIVATING AIR BAG SYSTEM .

Removal

1. Ensure front wheels are in straight-ahead position. Turn ignition switch to LOCK position. Disconnect

and shield negative battery cable.

2. Remove screw covers, screws and lower instrument cluster trim panel(s). Loosen steering wheel pad Torx screws until groove along screw circumference catches on screw case. See **Fig. 2**.

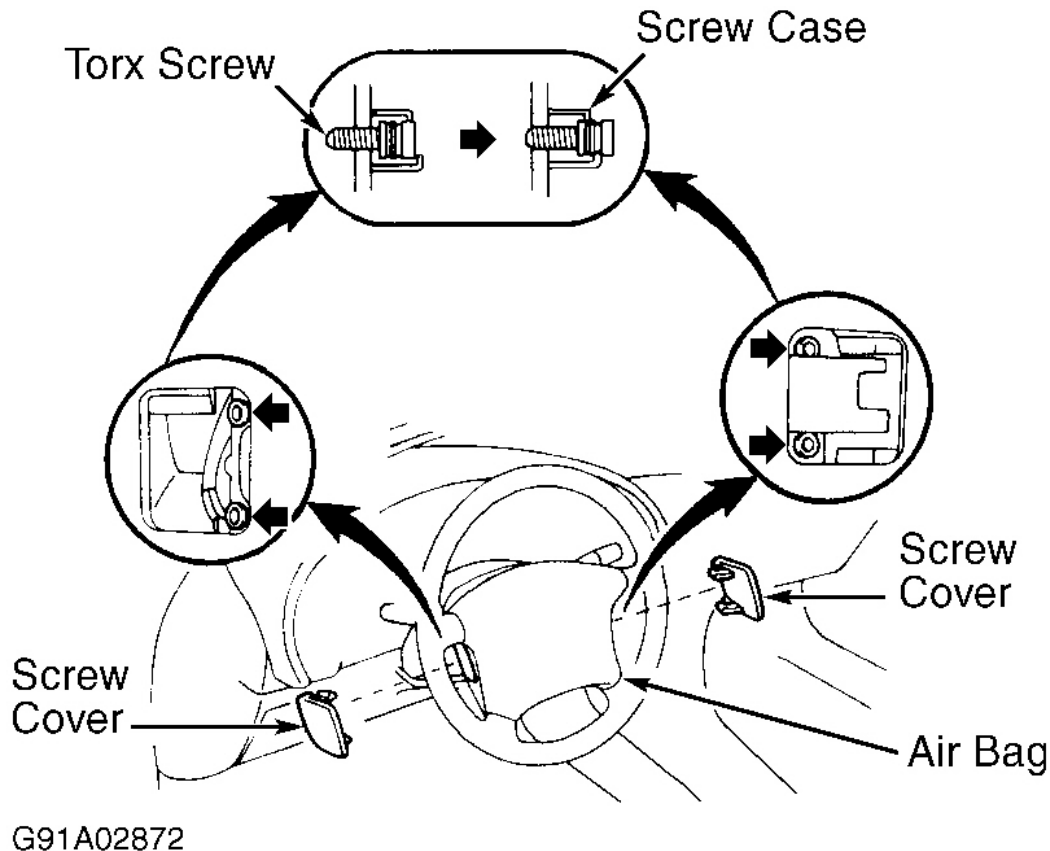


Fig. 2: Removing Steering Wheel Pad (Typical)

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

3. Pull steering wheel pad from steering wheel, and disconnect air bag electrical connector. Remove steering wheel pad. Place steering wheel pad on flat surface with pad cover facing up.

WARNING: Place steering wheel pad assembly on workbench with pad surface facing up. If assembly is stored face down, accidental air bag deployment could propel assembly and cause serious bodily injury.

4. Disconnect electrical connector. Mark steering wheel and steering shaft for installation reference. Remove steering wheel nut. Use appropriate puller to remove steering wheel.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

1. To install, reverse removal procedure. Before installing steering wheel, ensure spiral cable is properly aligned. See **ADJUSTMENTS** . Tighten steering wheel nut and Torx screws to specification. See **TORQUE SPECIFICATIONS** .
2. After steering wheel and steering wheel pad are installed, ensure proper operation of air bag system by turning ignition switch to ACC or ON position. AIR BAG warning light should illuminate, then turn off in about 6 seconds.
3. If AIR BAG warning light remains illuminated for more than 6 seconds, air bag system is malfunctioning and needs repair. If AIR BAG warning light illuminates with ignition on, a short circuit is likely in AIR BAG warning light circuit.

COMBINATION SWITCH

Removal & Installation

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** . Remove instrument cluster lower trim panel. Remove upper and lower steering column covers.
2. Disconnect combination switch electrical connector. Remove screws securing combination switch to steering column and remove combination switch. To install, reverse removal procedure. Tighten steering wheel nut to specification. See **TORQUE SPECIFICATIONS** .

IGNITION SWITCH & LOCK CYLINDER

Removal

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** . Remove upper and lower steering column covers. Remove combination switch (if necessary).
2. Disconnect ignition switch harness connectors. If shear bolt studs are accessible, use a hacksaw to cut slots into exposed studs. Using a screwdriver, remove studs.
3. If shear bolt studs are recessed or hard to reach with a hacksaw, center punch studs. Using a drill bit and screw extractor, remove studs. Remove ignition switch, column upper bracket and lock cylinder.
4. To remove lock cylinder from column upper bracket, place ignition key to ACC position. Using a screwdriver, push down on stop pin located on side of column upper bracket. Pull out lock cylinder.

Installation

1. To install, reverse removal procedure. Install NEW shear bolts. Tighten shear bolts finger tight. Ensure proper operation of ignition switch and lock cylinder.
2. Tighten shear bolts until heads break off. Install combination switch, upper and lower steering column covers and steering wheel. Tighten steering wheel nut to specification. See **TORQUE SPECIFICATIONS** .

STEERING COLUMN

Removal & Installation (Celica)

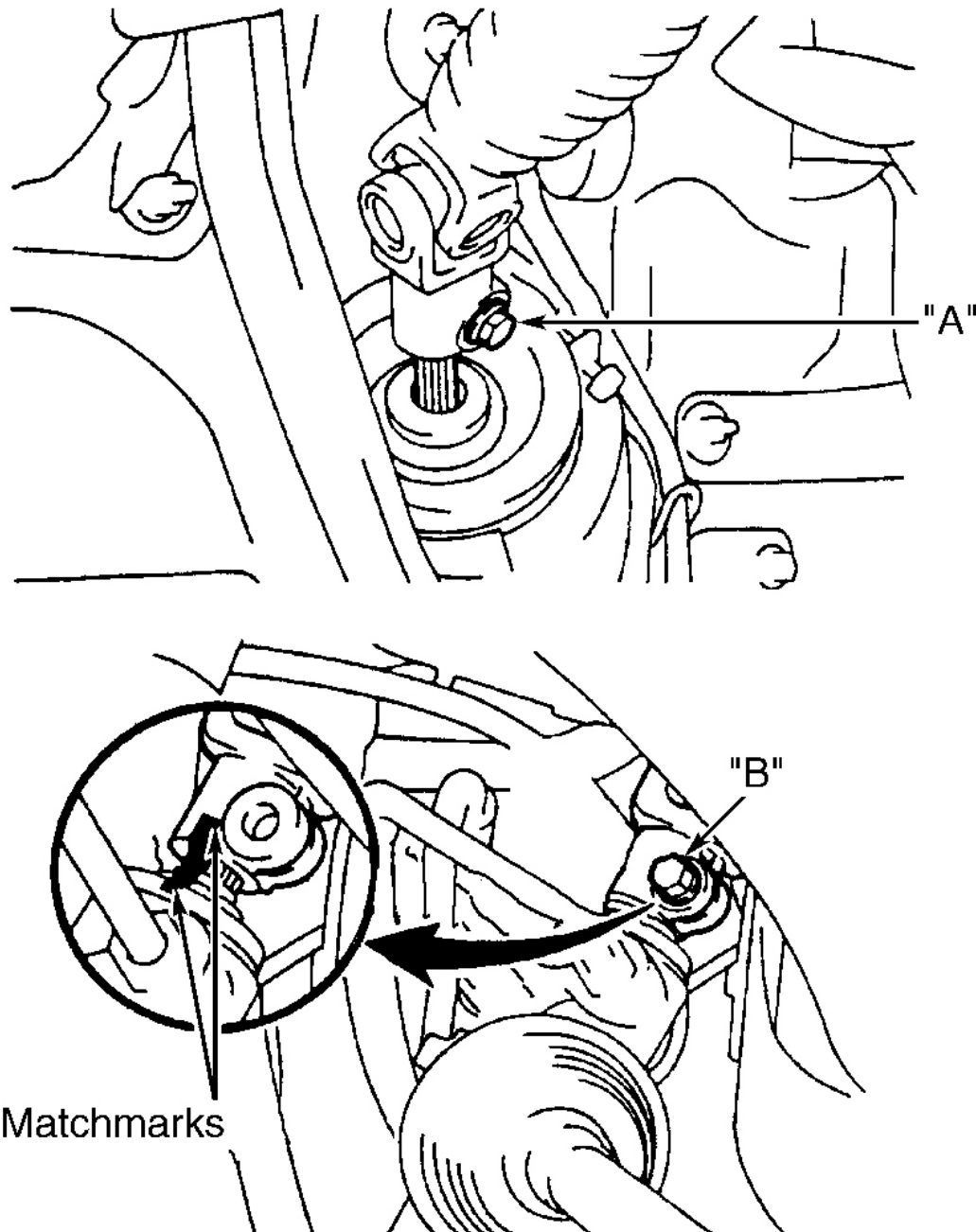
1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

1. Disconnect and shield negative battery cable. Remove steering wheel pad. Remove steering wheel. See **STEERING WHEEL & AIR BAG** .
2. Remove upper and lower steering column covers. Disconnect connectors. Remove 4 screws and air bag spiral and combination switch.
3. Remove instrument cluster lower finish panel. Remove fuse box opening cover. Remove 2 screws, and disconnect hood release handle. Remove 5 retaining screws and instrument panel lower finish panel.
4. Remove remaining instrument cluster panel (4 bolts). Remove air duct from instrument panel outlet.
5. Loosen lower clamp bolt "A" from intermediate-to-steering gear "U" joint. Remove upper intermediate shaft clamp bolt "B". See **Fig. 3** . Place match marks on steering gear shaft and "U" joint. Fully remove lower clamp bolt "A". Remove intermediate shaft.
6. To install, reverse removal procedure. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** . Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard



G00008286

Fig. 3: Identifying Bolts For Removing Intermediate Shaft (Celica Shown; Tundra Is Similar)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** .
2. Remove front door scuff plate and cowl side trim. Remove instrument cluster lower finish panel after disconnecting hood release handle. Remove lower instrument panel insert.
3. Remove upper and lower steering column covers. Disconnect connectors. Remove 3 screws and air bag spiral and combination switch.
4. Remove air duct from instrument panel outlet. Remove steering column floor hole cover (5 bolts).
5. Place match marks on steering gear shaft and "U" joint. Loosen upper "U" joint clamp bolt, and fully remove lower "U" joint clamp bolt. Disconnect steering column assembly connectors. Remove 2 steering column mounting bolts and nuts. Remove steering column from instrument panel.
6. Fully remove upper "U" joint clamp bolt. Remove "U" joint assembly.
7. To install, reverse removal procedure. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** . Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

Removal & Installation (RAV4)

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** .
2. Remove lower instrument finish panel after disconnecting hood release handle. Remove lower instrument panel insert.
3. Remove upper and lower steering column covers. Disconnect 2 electrical connectors and air bag connector. Remove 3 screws and air bag spiral and combination switch. Remove air duct from instrument panel outlet.
4. Place match marks on steering gear shaft and intermediate shaft across clamp. Loosen lower "U" joint clamp bolt. Fully remove clamp bolt at steering gear connection.
5. Disconnect steering column assembly connectors. Loosen hole cover clamp bolt. Remove 2 steering column mounting bolts and nuts. Remove steering column from instrument panel.
6. Remove floor hole cover. Fully remove upper "U" joint clamp bolt. Remove "U" joint assembly.
7. To install, reverse removal procedure. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** . Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

Removal & Installation (Tacoma)

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** .
2. Remove upper and lower steering column covers. Disconnect hood release handle from instrument panel. Remove 4 bolts and 1 screw. Remove instrument panel lower left finish panel. Remove air duct from instrument panel outlet.
3. Disconnect 3 electrical connectors. Disconnect air bag connector. Remove 3 screws and combination switch with spiral cable. Remove 2 bolts, and disconnect Junction Block No. 1.
4. On models with column shift, remove pin and clip, and disconnect cable assembly from steering column

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

shift lever assembly.

5. If equipped with 2WD, place match marks across intermediate shaft and steering gear shaft. Loosen clamp bolt just above floorboard. Remove lower "U" joint bolt at steering gear shaft connection. Disconnect intermediate shaft. Fully remove bolt above floorboard, and remove intermediate shaft. Remove steering column hole cover.
6. If equipped with 4WD, place match marks across intermediate shaft to steering gear housing. Loosen upper clamp bolt (above yoke), and fully remove clamp bolt at connection to steering gear. Disconnect intermediate shaft. Fully remove upper clamp bolt, and remove intermediate shaft. Remove steering column floor hole cover.
7. On all models, disconnect column electrical connectors. Remove 2 steering column retaining bolts and nuts. Remove steering column.
8. If equipped with 2WD, place match marks across column sliding yoke "U" joint connections. Remove sliding yoke.
9. If equipped with 4WD, place match marks across column "U" joint connections above floor hole cover. Remove upper clamp bolt. Remove "U" joint. Remove floor hole cover.
10. To install, reverse removal procedure. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** . Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

Removal (Tundra)

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG** .
2. Remove 3 screws and upper and lower steering column covers. Disconnect electrical connectors and air bag connector. Remove 3 screws and air bag spiral and combination switch with spiral cable.
3. Remove instrument lower finish panel. Remove 2 screws, and disconnect hood release lever from panel. Remove 4 bolts and instrument panel lower finish panel.
4. Remove No. 2 heater-to-register duct and brake pedal return spring.
5. Place match marks on No. 2 "U" joint and No. 2 intermediate shaft assembly. See **Fig. 3** . Remove bolt "A". Place match marks on No. 2 intermediate shaft assembly and control valve shaft. Remove bolt "B". Remove No. 2 intermediate shaft assembly. Remove 3 bolts and column hole cover No. 2.
6. On models equipped with A/T, disconnect cable assembly from column shift lever assembly. Disconnect connectors. Remove 4 steering column set nuts. Pull out steering column assembly with No. 2 "U" joint assembly.
7. Place match marks on steering column assembly and No. 2 "U" joint assembly. Remove bolt and column hole cover No. 2. Disconnect No. 2 "U" joint assembly.

Installation

1. Insert column hole cover No. 2. Align match marks on column assembly and No. 2 "U" joint assembly. Install bolt to connect No. 2 "U" joint assembly.
2. Install column assembly with No. 2 "U" joint assembly. Install 4 steering column set nuts. Connect connectors. On models equipped with A/T, connect transmission control cable assembly to shift lever assembly.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

3. Align match marks on No. 2 "U" joint assembly and No. 2 intermediate shaft assembly. Align match marks on control valve shaft and No. 2 intermediate shaft assembly. Install "A" and "B" bolts. See **Fig. 3**.
4. Install brake pedal return spring and No. 2 heater to register duct. Install lower finish panel with 4 bolts. Connect hood lock release lever with 2 screws. Install spiral cable. See **SPIRAL CABLE** under ADJUSTMENTS. Install combination switch with 3 screws. Connect air bag and connectors.
5. Install lower and upper column covers with 3 screws. Ensure tires are in straight-ahead position. Turn cable counterclockwise until there is resistance. Rotate cable clockwise 2.5 turns to align mark.
6. To install steering wheel, align match marks on wheel and main shaft. Install wheel set nut. Connect connector. Install steering wheel pad. Connect air bag connector. Install wheel pad when Torx screw is set in screw case. Using a Torx socket wrench, tighten 2 screws to 78 INCH lbs. (8.8 N.m). Install 2 steering wheel lower No. 2 covers. Check steering wheel center point.
7. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS**. Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

Removal & Installation (4Runner)

1. Disconnect and shield negative battery cable. Remove steering wheel. See **STEERING WHEEL & AIR BAG**.
2. Remove upper and lower steering column covers. Disconnect hood release handle from instrument panel. Remove fuel lid release lever from instrument panel. Remove 4 bolts and instrument panel lower left finish panel.
3. Remove starter switch bezel. Remove air duct from instrument panel outlet.
4. Disconnect 3 electrical connectors. Disconnect air bag connector. Remove 3 screws and combination switch. Remove spiral cable. Remove brake pedal return spring.
5. Place match marks on intermediate shaft and "U" joint, and place match marks on steering gear shaft and "U" joint. Remove upper and lower clamp bolts from "U" joint. Remove intermediate shaft.
6. Remove floor hole cover. Fully remove upper "U" joint clamp bolt, and remove "U" joint assembly.
7. To install, reverse removal procedure. Tighten all bolts to specifications. See **TORQUE SPECIFICATIONS**. Ensure spiral cable is properly installed and adjusted. See **SPIRAL CABLE** under ADJUSTMENTS.

OVERHAUL

STEERING COLUMN

Disassembly (Celica)

1. Place intermediate shaft in vise. Place match marks across intermediate shaft and main shaft. Remove key cylinder illumination assembly.
2. Center punch and drill into both upper column bracket bolts. Use screw extractor to remove bolts.
3. Remove snap ring from shaft assembly. Using brass bar and hammer, tap out shaft assembly bushing from column tube. Remove remaining snap ring. See **Fig. 5**.

Inspection

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

Ensure lock mechanism, key cylinder, key interlock solenoid (A/T), and ignition switch operate properly. Check column bearing for rotating smoothness. Replace column housing if bearing or housing shows any damage. Check steering shaft for bends, damaged splines or damaged "U" joints. Repair or replace components as necessary.

Reassembly

1. Install NEW snap ring to shaft assembly. Install shaft assembly into column tube. Install NEW snap ring to retain shaft assembly in column.
2. Coat inside of new bushing with molybdenum disulfide lithium-based grease. Press NEW bushing into column housing.
3. Install column upper bracket and clamp, using 2 NEW taper-head screws. Tighten until screw heads break off.
4. Install key cylinder illumination assembly. Align all match marks on intermediate shaft and main shaft. Install and tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** .

Disassembly (Corolla)

Place steering column assembly in vise. Remove key cylinder illumination assembly. Center punch and drill into both steering column bracket bolts. Use screw extractor to remove bolts. See **Fig. 6** .

Inspection

Ensure lock mechanism, key cylinder, key unlock warning switch, key interlock solenoid and ignition switch operate properly. Check steering shaft for any signs of damage. Repair or replace components as necessary.

Reassembly

To reassemble, reverse disassembly procedure. Install and tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** .

Disassembly (RAV4)

1. Place steering column assembly in vise. Remove sliding yoke after making match marks across shaft and "U" joint. Center punch and drill into both steering column bracket bolts. Use screw extractor to remove bolts.
2. Remove column tube support bolt. Remove tube support with lower column tube attachment. Remove tube attachment from tube support. See **Fig. 7** .
3. Using pliers, remove energy absorbing clips. Remove energy absorbing plate, guide and breakaway capsule. Turn nut clockwise to remove. See **Fig. 4** .
4. Remove snap ring. Using brass bar and hammer, tap shaft assembly from column tube. Using screwdriver, tap out bushing from lower end of tube.

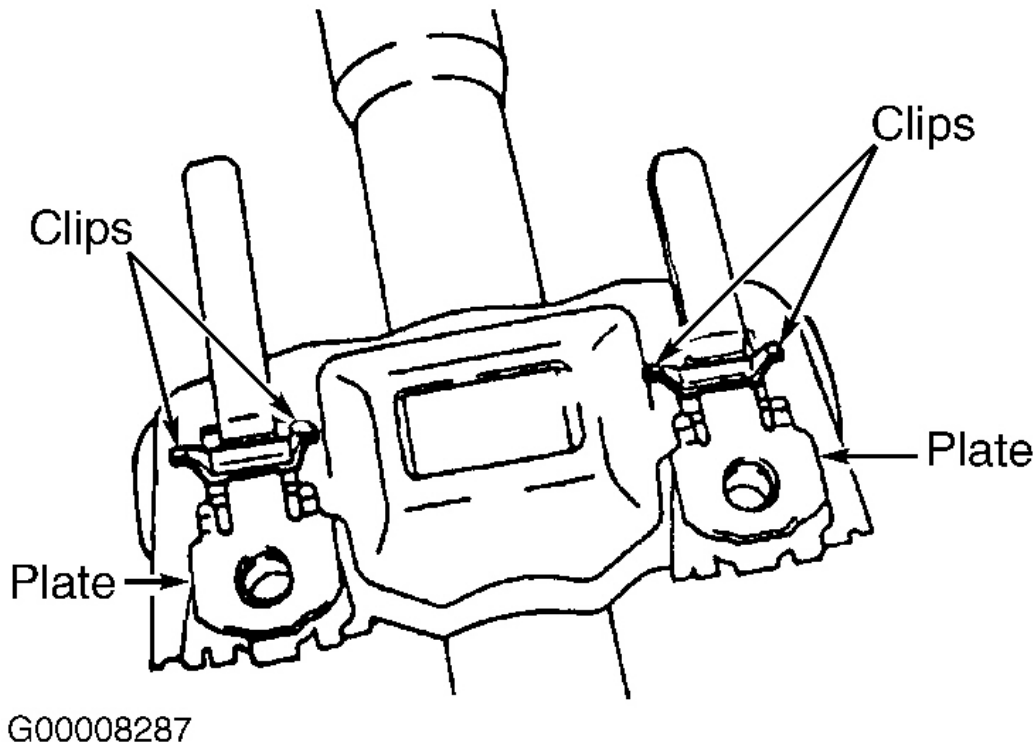


Fig. 4: Identifying Energy Absorbing Plates (RAV4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

Inspection

Ensure lock mechanism, key cylinder, ignition switch, key unlock warning switch and key interlock solenoid (A/T) operate properly. Check column bearing for rotating smoothness. Replace column housing if bearing or housing shows any damage. Check steering shaft for bends, damaged splines or damaged "U" joints. Repair or replace components as necessary.

Reassembly

1. Coat all rotating surfaces with molybdenum disulfide lithium-based grease. Install NEW snap ring to shaft assembly. Install shaft assembly into column tube. Install NEW bushing in lower end of tube. Install NEW second snap ring to retain shaft assembly in column.
2. Install breakaway capsule, energy absorbing guide and plate. Install NEW energy absorbing clips.
3. Install column tube support and attachment. Tighten bolt to specification while holding support. See **TORQUE SPECIFICATIONS** .
4. Install upper bracket and clamp, using 2 NEW taper-head screws. Tighten until screw heads break off. Install and tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** .

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

Disassembly (Tacoma)

1. Place steering column assembly in vise. Center punch and drill into both steering column bracket bolts. Use screw extractor to remove bolts.
2. Remove snap ring from shaft assembly. Using soft-face hammer, tap shaft assembly from column tube. Remove following snap ring.
3. Remove turn signal bracket and column shift lever assembly. See **Fig. 8**.

Inspection

Ensure lock mechanism, key cylinder, ignition switch, key unlock warning switch and key interlock solenoid (A/T) operate properly. Check column bearing for rotating smoothness. Replace column housing if bearing or housing shows any damage. Check steering shaft for bends, damaged splines or any other damage. Repair or replace components as necessary.

Reassembly

1. If replacing column tube bushing, coat inside of NEW bushing with molybdenum disulfide lithium-based grease. Align projections on bushing with holes in column tube, and install bushing until projections are engaged.
2. Coat all rotating surfaces with molybdenum disulfide lithium-based grease. Install column shift lever assembly and turn signal bracket.
3. Install NEW snap ring to shaft assembly. Install shaft assembly into column tube. Install NEW second snap ring to retain shaft assembly in column.
4. Install upper bracket and clamp, using 2 NEW taper-head screws. Tighten until screw heads break off. Install and tighten all bolts to specifications. See **TORQUE SPECIFICATIONS**.

Disassembly (Tundra)

1. Place steering column assembly in vise. Remove clip and key cylinder lamp assembly. Using punch, mark center of 2 tapered-head bolts. Drill out 2 bolts. Remove 2 bolts, using screw extractor. Remove column upper bracket and column upper clamp. On models equipped with A/T, remove shift lever, upper No. 2 steering cover, park lock cable assembly and shift lever housing. See **Fig. 9**.
2. Remove 4 Torx bolts and column upper tube with main shaft assembly from column tube assembly.
3. On models equipped with A/T, remove 4 Torx bolts and steering column housing support. On all models, to remove column tube support, remove bolt and washer. Remove column tube support with lower column tube attachment. Remove lower column tube attachment from column tube support.
4. Remove main shaft stopper and assembly. Ensure shaft assembly does not rotate. Using screwdriver, remove retaining ring. Remove spring retainer and compression spring.

Inspection

Ensure lock mechanism, key cylinder, ignition switch and key unlock warning switch operate properly. Check column bearing for rotating smoothness. Replace column housing if bearing or housing shows any damage. Check steering shaft for bends, damaged splines or damaged "U" joints. Repair or replace components as necessary.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

Reassembly

1. Install compression ring and spring retainer. Ensure main shaft assembly does not rotate. Install main shaft stopper. Install NEW lower column tube attachment, bolt and washer to column tube support.
2. On models equipped with A/T, install steering column housing support. Install 4 NEW Torx bolts. On all models, install column upper tube with main shaft assembly to column tube assembly. Install 4 NEW Torx bolts.
3. Install turn signal bracket with 2 NEW Torx screws. On models equipped with A/T, install park lock cable assembly, shift lever housing with 3 NEW Torx screws, upper No. 2 steering cover and shift lever with NEW Torx screw.

Disassembly (4Runner)

1. Place steering column assembly in vise. Remove transponder key coil with key cylinder illumination assembly. Center punch and drill into both steering column bracket bolts. Use screw extractor to remove bolts.
2. Remove snap ring. Using soft-face hammer, tap shaft assembly from column tube. Remove following snap ring. See **Fig. 10** .

Inspection

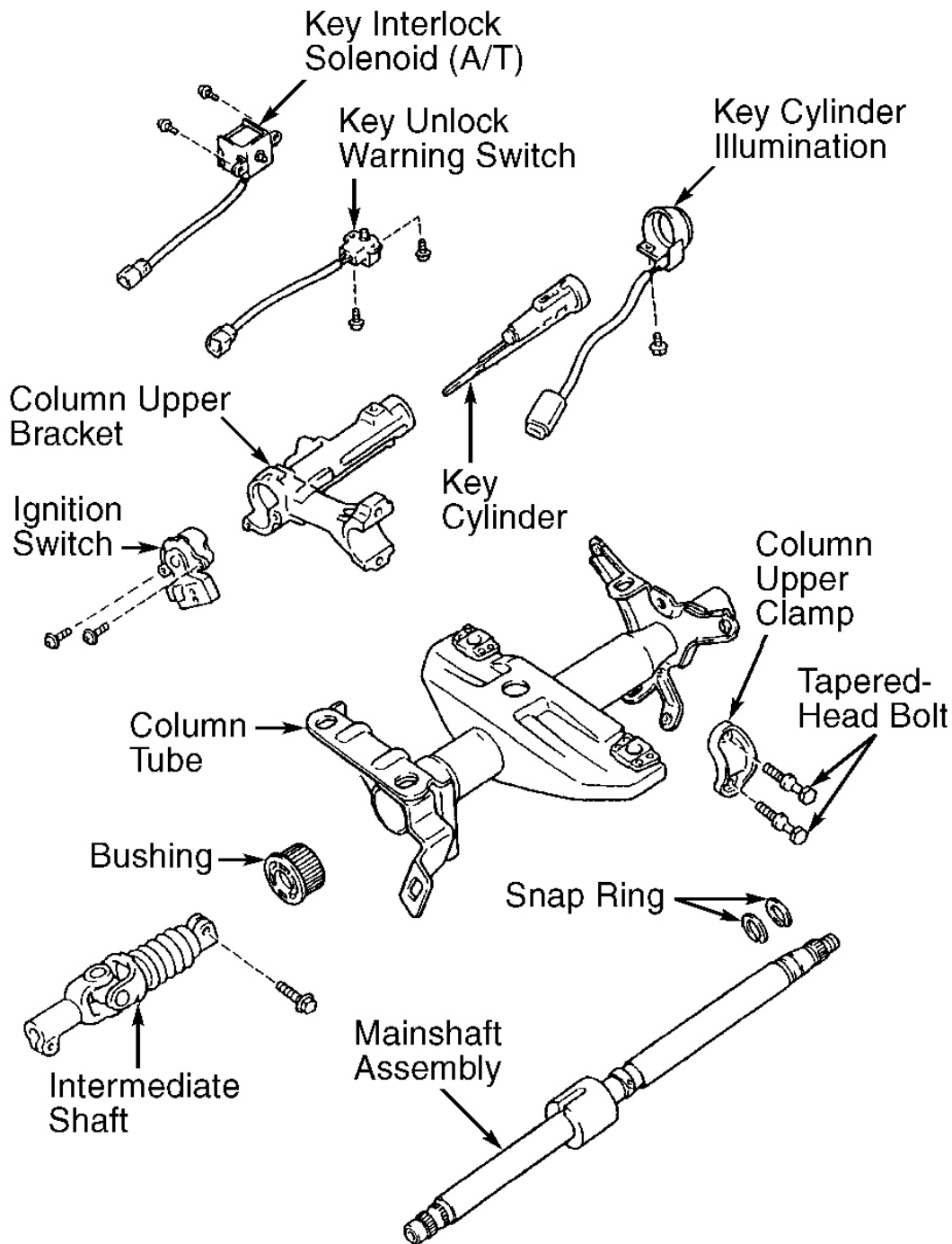
Ensure lock mechanism, key cylinder, ignition switch, key unlock warning switch and key interlock solenoid (A/T) operate properly. Check column bearing for rotating smoothness. Replace column housing if bearing or housing shows any damage. Check steering shaft for bends, damaged splines or other damage. Repair or replace components as necessary.

Reassembly

1. Install NEW snap ring to shaft assembly. Install shaft assembly into column tube. Install NEW second snap ring to retain shaft assembly in column.
2. Coat inside of new bearing with molybdenum disulfide lithium-based grease.
3. Install column upper bracket and clamp, using 2 NEW taper-head screws. Tighten until screw heads break off.
4. Install transponder key coil and key cylinder illumination assembly. Install and tighten all bolts to specifications. See **TORQUE SPECIFICATIONS** .

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

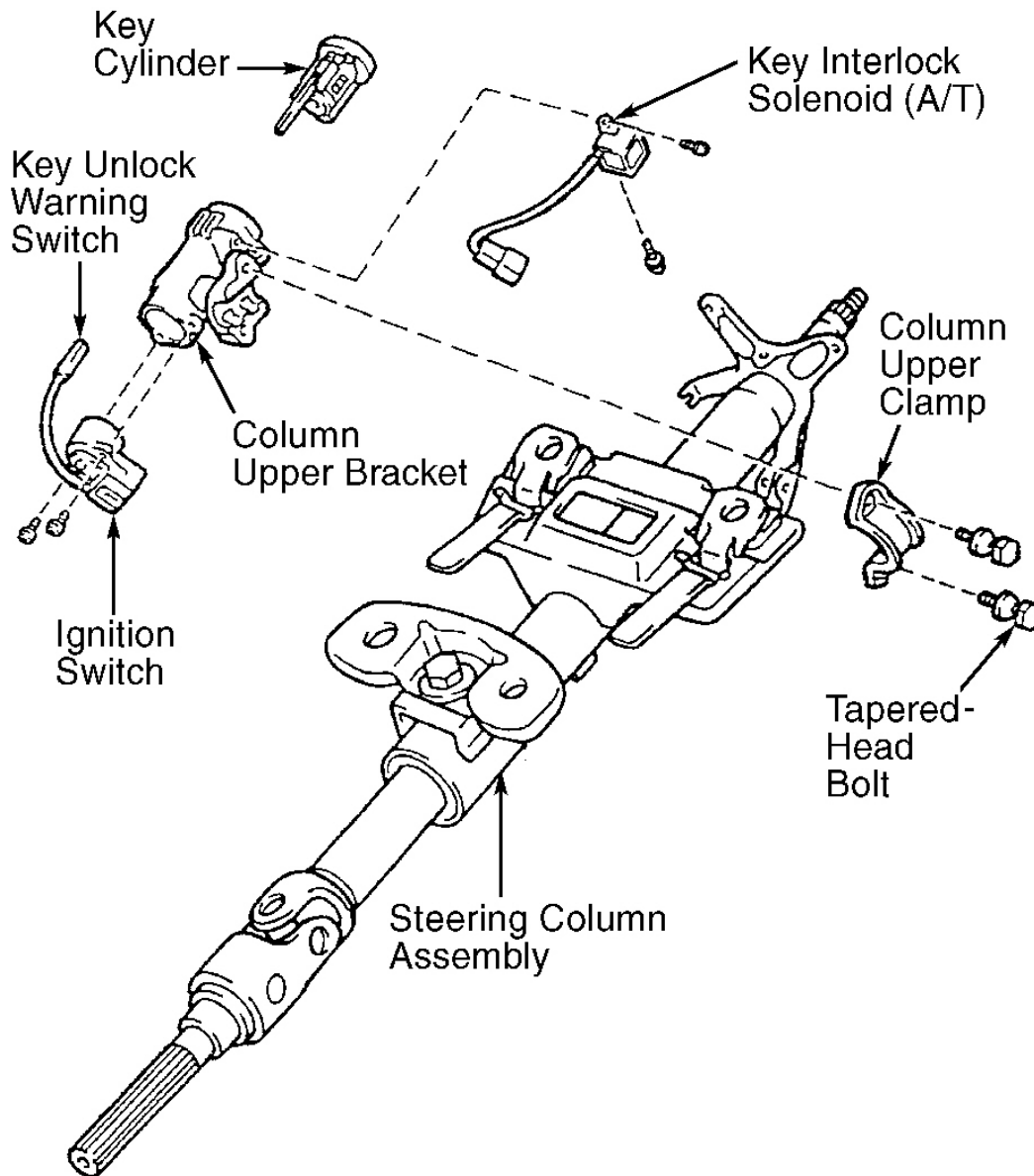


G97B08087

Fig. 5: Exploded View Of Steering Column (Celica)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

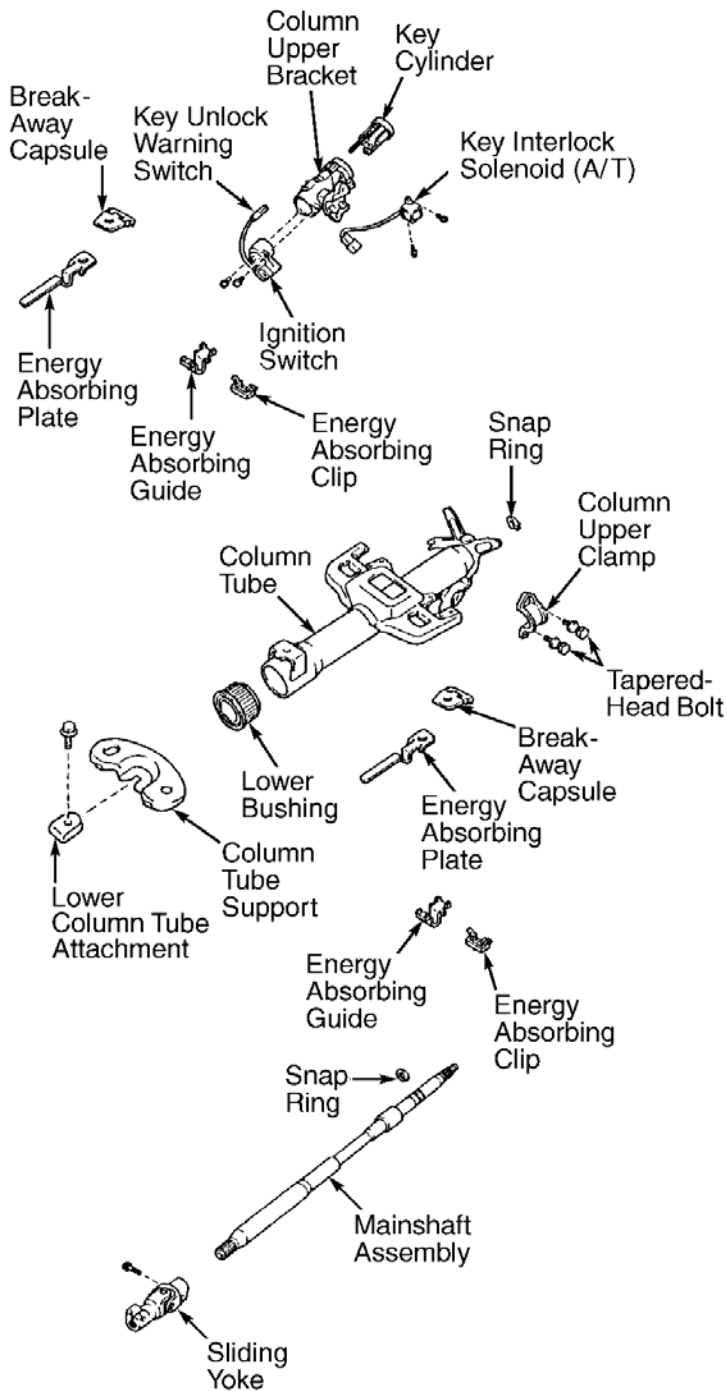


G98B12857

Fig. 6: Exploded View Of Steering Column (Corolla)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard



G00008289

Fig. 7: Exploded View Of Steering Column (RAV4)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

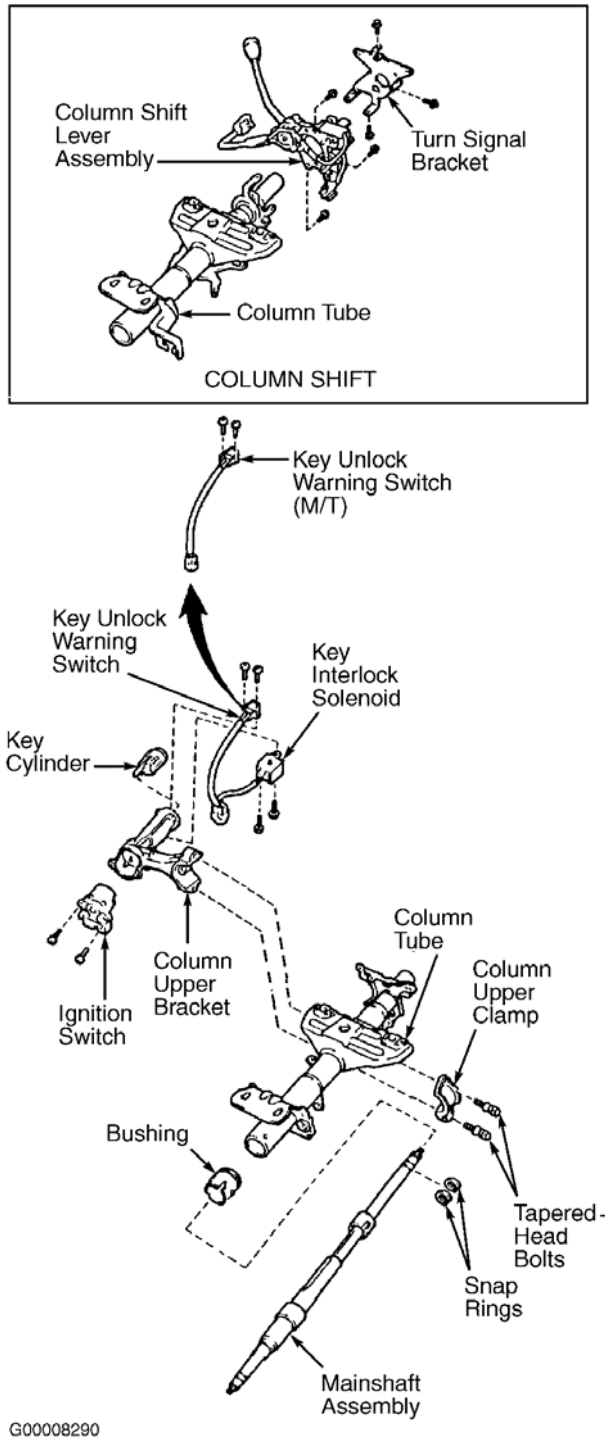
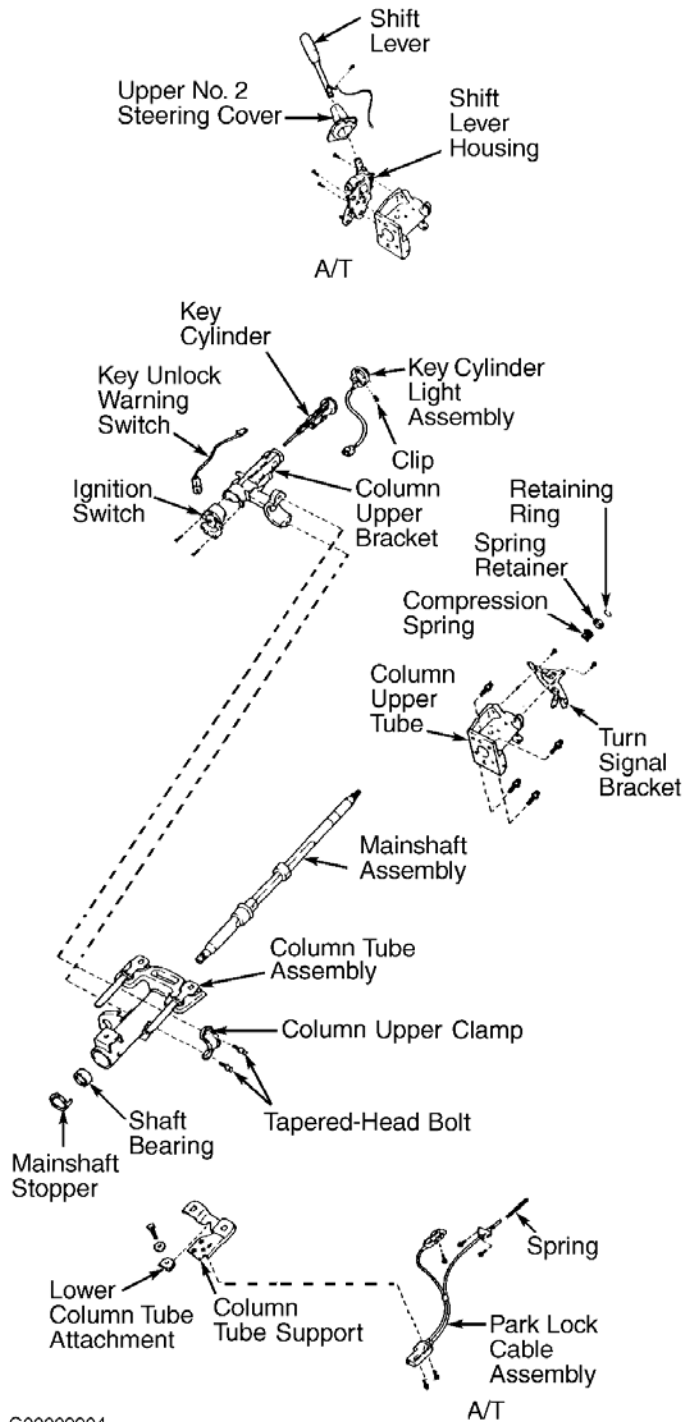


Fig. 8: Exploded View Of Steering Column (Tacoma)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

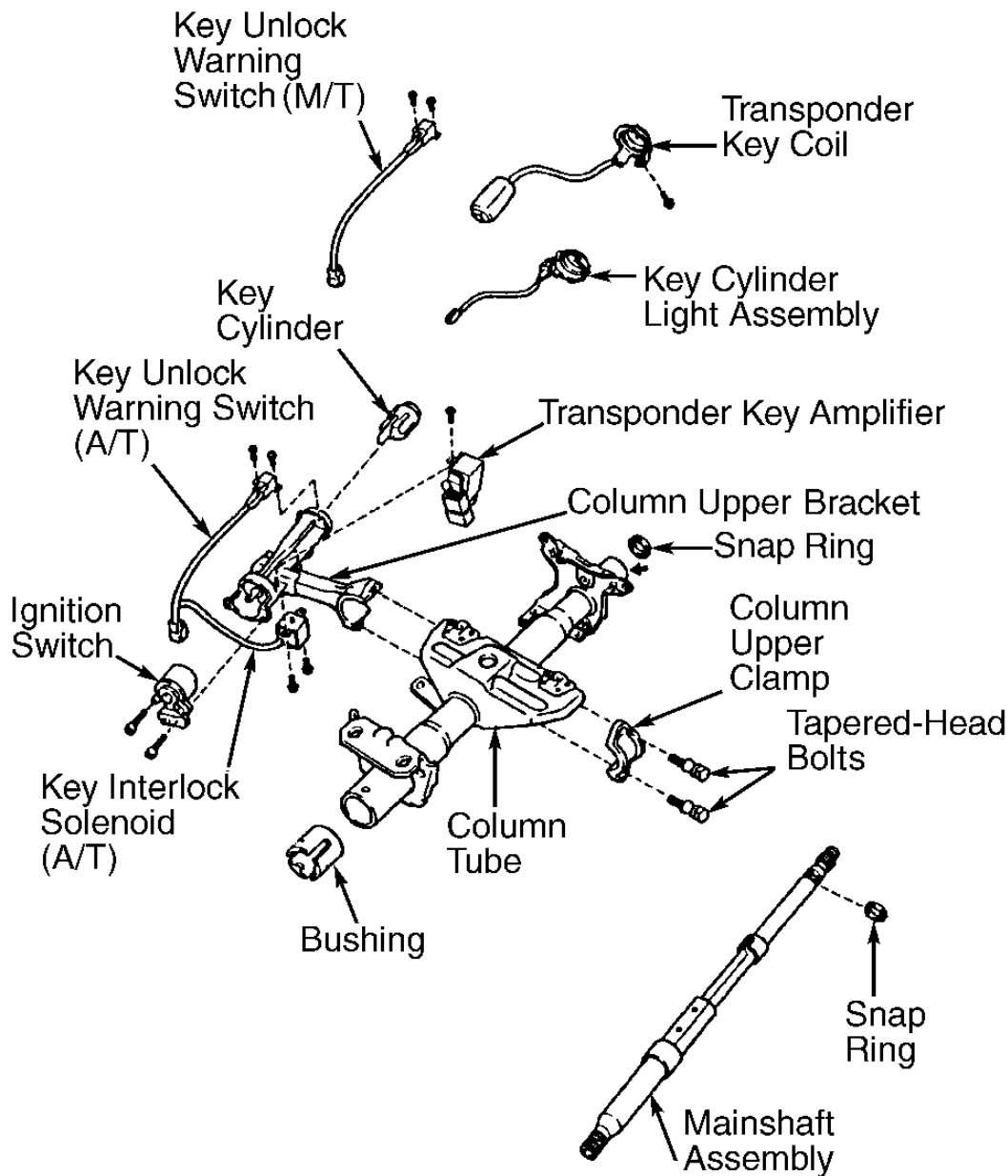


G00009904

Fig. 9: Exploded View Of Steering Column (Tundra)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard



G00008288

Fig. 10: Exploded View Of Steering Column (4Runner)
Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
-------------	----------------

1999 Toyota RAV4

1999-2000 STEERING Steering Columns - Standard

Intermediate Shaft-To-Mainshaft Bolt	26 (35)
Steering Column Bracket Retaining Bolts/Nuts	19 (25)
Steering Column Lower Bracket Bolt (Celica)	11 (15)
Steering Column Tube Support/Attachment Bolt (RAV4)	14 (19)
"U" Joint Bolt	26 (35)
INCH Lbs. (N.m)	
Floor Hole Cover Bolts	
Corolla	43 (5)
Tacoma, Tundra & 4Runner	69 (8)
Steering Wheel Pad Torx Screws	78 (9)