

# Rear Suspension

## TOYOTA TERCEL

### DESCRIPTION

Rear Suspension is an independent, coil spring type. The trailing arms are mounted by bushings and pivot bolts to suspension crossmember. Arms are supported by coil springs and shock absorber. Stabilizer bar attaches to crossmember and trailing arm.

### ADJUSTMENTS

#### WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

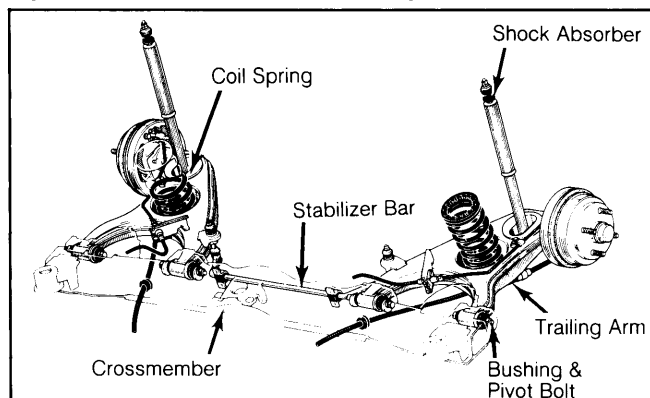
See *Wheel Alignment Specifications and Procedures* in **WHEEL ALIGNMENT** section.

#### WHEEL BEARING

1) Tighten hub nut to 22 ft. lbs. (30 N.m). Loosen nut until it can be turned by hand, (using only a socket without a handle). Tighten hub nut as tight as possible by hand. Back off nut 1/2 turn.

2) Rotate drum several times to make sure there is no brake drag. Preload should be 0.8-1.9 lbs. (3.6-8.5 N). Turn nut until correct preload is obtained.

**Fig. 1: View of Assembled Rear Suspension**



### REMOVAL & INSTALLATION

#### SHOCK ABSORBER & COIL SPRING

##### Removal

1) Raise vehicle and support with safety stands. Remove wheel assembly. Support trailing arm with a floor jack.

2) Remove stabilizer bar end set bolt. Remove shock absorber upper retaining nut. Remove shock absorber lower retaining bolt. Remove shock from vehicle.

3) Lower trailing arm supported by floor jack. Remove coil spring and spring seat.

##### Installation

To install, reverse removal procedures. Align coil spring in hollow portion of trailing arm. Lower vehicle and jounce to stabilize bushing before tightening shock absorber and stabilizer hardware.

#### TRAILING ARM

##### Removal

1) Raise vehicle and support with safety stands. Remove stabilizer bar end set bolt.

2) Remove shock absorber and coil spring. Remove dust cap, cotter pin, and lock nut from axle.

3) Remove washer, outer bearing, brake drum, inner bearing and oil seal.

4) Disconnect brake line from trailing arm. Disconnect parking brake cable at equalizer. Pull out parking brake cable from crossmember to arm side.

5) Remove rear brake and backing plate assembly with brake cable attached. Note position of trailing arm camplate mark for reassembly reference.

6) Remove trailing arm pivot bolts. Remove trailing arm from vehicle.

##### Bushing Replacement

Cut off edges of bushing flange and bend remaining portions inward with a chisel. Using a press and adapters, press out outer and inner bushings and press in replacements.

##### Installation

To install, reverse removal procedures. Align camplate mark on trailing arm to same position as it was prior to removal. Lower vehicle and jounce before tightening suspension components.

#### STABILIZER BAR

##### Removal

Remove stabilizer bar end set bolt. Remove bolts from stabilizer bar brackets. Remove stabilizer bar from vehicle.

##### Installation

To install, reverse removal procedures. Lower vehicle and jounce before tightening mounting hardware.

#### SUSPENSION CROSSMEMBER

##### Removal

1) Raise vehicle and support with safety stands. Remove wheel assemblies. Remove exhaust tailpipe and muffler assembly.

2) Remove stabilizer bar, shock absorber and coil springs. Remove trailing arm with parking brake cable and brake tube attached.

3) Remove suspension crossmember retaining bolts. Remove crossmember from vehicle.

##### Bushing Replacement

Remove bushings with soft mallet. Install new bushings with notch aligned in the forward/reverse direction, and tap in from underside of crossmember.

##### Installation

1) To install, reverse removal procedures. Align camplate mark on trailing arm to the same position as it was prior to removal. Align coil spring in hollow portion of trailing arm.

2) Lower vehicle and jounce before tightening trailing arm, shock absorber, and stabilizer bar end bolts.

#### TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Rear Brake Assembly .....	22-32 (30-44)
Shock Absorber	
Lower Retaining Bolt .....	11-15 (15-20)
Upper Retaining Nut .....	14-22 (19-30)
Stabilizer Bar	
Bar End Set Bolt .....	10-15 (14-20)
Bracket .....	11-15 (15-20)
Suspension Crossmember Bolts .....	58-72 (79-98)
Trailing Arm Pivot Bolts .....	73-97 (99-132)