

## SUBARU (Cont.)

7) Rotate torsion bar and outer arm to shift matching of inner serration by appropriate pitches and engage inner serration with crossmember. Pull outer arm from torsion bar and rotate outer arm in opposite direction to shift matching of outer serration by appropriate pitches.

**NOTE** — DO NOT disengage inner serration of torsion bar from crossmember.

8) Install outer arm to torsion bar and crossmember, then measure vertical distance between end of outer arm and vehicle body. Change in this distance shows half of change in riding height clearance caused by adjustment.

9) Install 3 bolts connecting outer and inner arms. Repeat adjustment procedure on opposite wheel. Install wheels and lower vehicle. Install shock absorbers and outer bushing lock bolt. Check rear riding height adjustment. If correct, tighten lock bolt on outer bushing. If incorrect, repeat adjustment on each wheel.

### CASTER

Caster angle is not adjustable. If angle is not to specifications, inspect suspension for wear or damage and repair or replace components as necessary.

### CAMBER

Camber angle is not adjustable. If angle is not to specifications, inspect suspension for wear or damage. Repair or replace components as necessary.

### TOE-IN

If toe-in is not within specifications, loosen both left and right tie rod lock nuts. Turn both tie rods an equal amount until specified toe-in is obtained.

## TOYOTA

### ADJUSTMENT

#### TIRE INFLATION (COLD)

Before attempting to check or adjust wheel alignment, make sure tires are properly inflated. Refer to manufacturer's specifications given in owner's manual.

#### CAMBER & CASTER

**Pickup (2-WD)** — If camber or caster angles are not within specifications, adjust by adding or removing shims between upper control arm shaft and front suspension crossmember. To increase camber, remove shims from upper control arm shaft bolts in equal amounts. To decrease camber, add shims to upper control arm shaft bolts in equal amounts. To increase caster, add shims to rear side of upper control arm shaft bolt or remove shims from front side. To decrease caster, remove shims from rear side of upper control arm shaft bolt or add shims to front side.

**Land Cruiser & Pickup (4-WD)** — Camber and caster are not adjustable. If not within specifications, inspect and repair or replace front suspension components as necessary.

**Starlet** — Caster adjustment is made by adding or subtracting spacers on the sway bar.

**All Other Models** — If caster angle is not within specifications, adjust by loosening nuts on strut rod and turning nuts to lengthen or shorten strut rod.

**NOTE** — Camber is not adjustable except on Pickup models. If camber angle is not within specifications, check front end for bent or worn parts and replace as necessary.

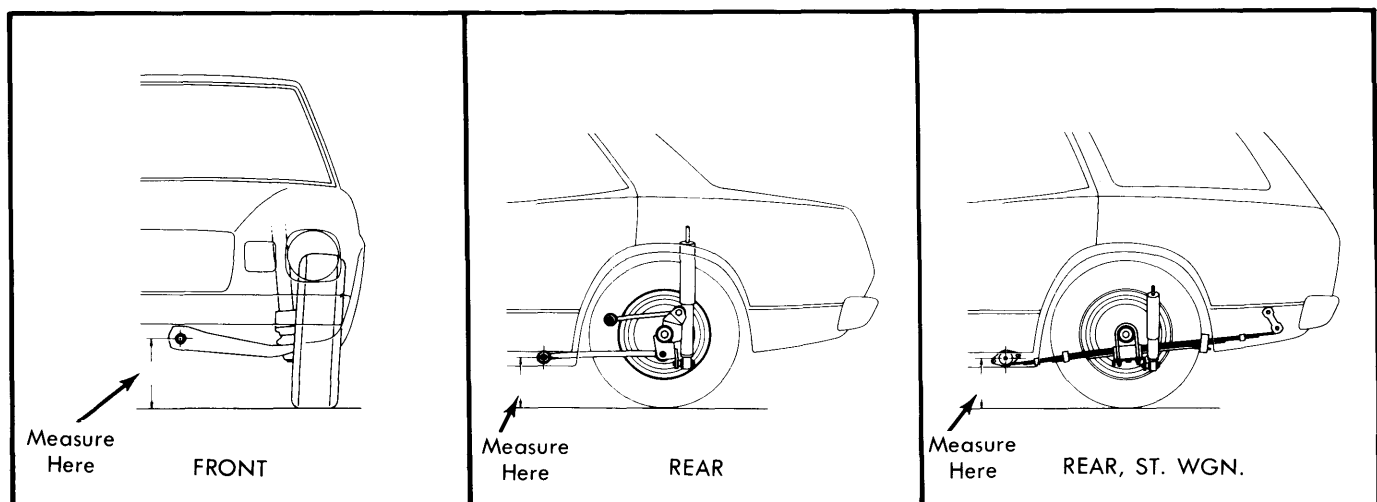
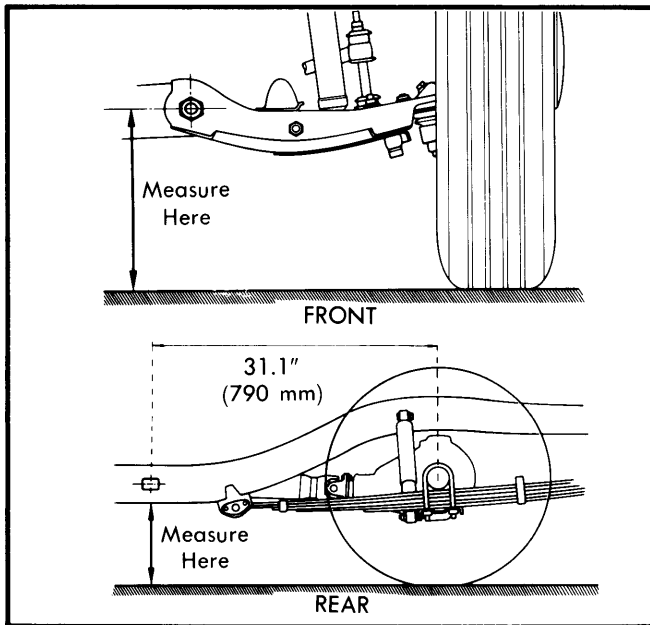


Fig. 1 Riding Height Measurement Points for All Models — Except Pickup & Land Cruiser

# Wheel Alignment

## TOYOTA (Cont.)



**Fig. 2 Riding Height Measurement Points for 2-WD Pickup Models**

### TOE-IN

**All Models** — If toe-in is not within specifications, loosen steering link (tie-rod) clamping bolts and rotate adjusting sleeves an equal amount until correct toe-in is obtained. Position clamp bolts at right angles to slot in tie rod and tighten bolts.

### RIDING HEIGHT

Before adjusting wheel alignment, check riding height. Riding height must be checked with vehicle on level surface. Bounce vehicle several times and allow suspension to settle. Check riding height as shown in Fig. 1 or Fig. 2. If riding height is not within specifications listed in Riding Height Specifications table, check and repair or replace suspension components.

### Riding Height Specifications<sup>①</sup>

Application	Front In. (mm)	Rear In. (mm)
<b>Celica &amp; Supra</b>		
165SR14 .....	9.2 (234)	9.3 (235)
175SR14 .....	9.4 (239)	9.5 (240)
185/70SR14 .....	9.3 (237)	9.4 (238)
<b>Corolla</b>		
<b>Station Wagon</b>		
165SR13 .....	9.13 (232)	9.1 (232)
<b>All Others</b>		
6.45-13 .....	9.3 (237)	9.5 (241)
165SR13 .....	9.1 (230)	9.2 (234)
185/70SR13 .....	9.1 (232)	9.3 (236)
185/70HR13 .....	9.1 (232)	9.3 (236)
<b>Corona</b>		
<b>Station Wagon</b>		
5.60-13 .....	9.1 (231)	8.9 (225)
6.45-13 .....	9.0 (229)	8.8 (223)
165SR13 .....	8.8 (223)	8.5 (217)
165SR14 .....	9.3 (235)	9.0 (229)
175SR14 .....	9.5 (241)	9.3 (235)
<b>All Others</b>		
5.60-13 .....	9.1 (231)	9.2 (233)
6.45-13 .....	9.0 (229)	9.1 (231)
165SR13 .....	8.8 (223)	8.9 (225)
165SR14 .....	9.3 (235)	9.3 (237)
175SR14 .....	9.5 (241)	9.6 (243)
<b>Cressida</b>		
<b>Sedan</b>		
All Tires .....	9.1 (231)	9.6 (243)
<b>Station Wagon</b>		
All Tires .....	9.2 (233)	9.8 (248)
<b>Pickup (2-WD)</b>		
<b>1/2 Ton</b>		
7.00-14 6PR .....	10.3 (261)	11.4 (288)
185SR14 4PR .....	9.8 (250)	10.7 (270)
E78-14 (B) .....	10.0 (254)	11.1 (281)
ER78-14 (B') .....	9.9 (251)	10.7 (271)
<b>3/4 Ton</b>		
7.50-14 6PR .....	11.0 (278)	12.0 (305)
<b>Starlet</b>		
<b>Sedan</b>		
145SR13 .....	9.0 (230)	9.0 (230)
<b>Wagon</b>		
6.15-13 6PR .....	9.2 (234)	9.3 (235)
155SR13 .....	9.1 (231)	9.1 (231)
5.00-12 8PR .....	9.1 (231)	9.1 (231)
155SR12 .....	8.6 (218)	8.6 (218)
<b>Tercel</b>		
<b>155-13 &amp;</b>		
6.15-13 4PR .....	8.8 (224)	10.5 (266)
155SR12 .....	8.2 (208)	9.8 (250)
165/70 SR13 .....	8.5 (217)	10.2 (259)

① — According to tire size.

## TRIUMPH

### ADJUSTMENT

#### TIRE INFLATION (COLD)

Before attempting to check or adjust wheel alignment, make sure tires are properly inflated. Refer to manufacturer's specifications given in owner's manual.

### CASTER

**All Models** — Caster angle is not adjustable. If caster angle is not to specifications, inspect suspension system for wear or damage and repair or replace components as necessary.