

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

1994 Toyota Celica

1994 WHEEL ALIGNMENT
Toyota - Specifications & Procedures
Celica

WHEEL ALIGNMENT PROCEDURES

TURNING ANGLE

On Celica, turn steering wheel fully right and then left, and observe turning radius on both wheels. If turning radius is incorrect, inspect and replace any damaged or worn front suspension components. See WHEEL ALIGNMENT SPECIFICATIONS table.

CAMBER ADJUSTMENT

Front Suspension

1) Check tires for wear and improper inflation. Inspect front wheel bearings for looseness. Check wheel runout. Wheel runout should not exceed .055" (1.4 mm).

2) Inspect front suspension components for looseness. Ensure front shock absorbers work properly. Measure vehicle riding height. See RIDING HEIGHT ADJUSTMENT article in the WHEEL ALIGNMENT section.

3) Measure camber of both front wheels. See WHEEL ALIGNMENT SPECIFICATIONS table. If camber is not within specification, inspect and replace any damaged or worn front suspension components. Camber is not adjustable.

Rear Suspension

Check tires for wear and improper inflation. Measure camber of both rear wheels. See WHEEL ALIGNMENT SPECIFICATIONS table. If camber is not within specification, inspect and replace any damaged or worn rear suspension components. Camber is not adjustable.

CASTER ADJUSTMENT

Front Suspension

1) Measure camber and steering axis inclination. See WHEEL ALIGNMENT SPECIFICATIONS table. If adjustment is necessary, see appropriate adjustment procedure. Measure riding height. See RIDING HEIGHT ADJUSTMENT article in the WHEEL ALIGNMENT section.

2) Measure caster of both front wheels. If caster is not within specification, inspect and replace any damaged or worn front suspension components. Caster is not adjustable.

STEERING AXIS/KING PIN INCLINATION

Measure camber. See WHEEL ALIGNMENT SPECIFICATIONS table. If adjustment is necessary, see appropriate adjustment procedure. Measure steering axis inclination of both front wheels. If steering axis inclination is not within specification, inspect and replace any damaged or worn front suspension components. See WHEEL ALIGNMENT SPECIFICATIONS table. Steering axis/king pin inclination is not adjustable. Measure riding height. See RIDING HEIGHT ADJUSTMENT article in the WHEEL ALIGNMENT section.

TOE-IN ADJUSTMENT

Front Suspension

Measure camber, steering axis inclination, and caster. See WHEEL ALIGNMENT SPECIFICATIONS table. If adjustment is necessary, see appropriate adjustment procedure. Measure riding height. See RIDING HEIGHT ADJUSTMENT article in the WHEEL ALIGNMENT section. Set front wheels to straight-ahead position. Bounce both ends of vehicle several times to settle suspension. Measure toe-in. If necessary, adjust toe-in by changing length of tie rods.

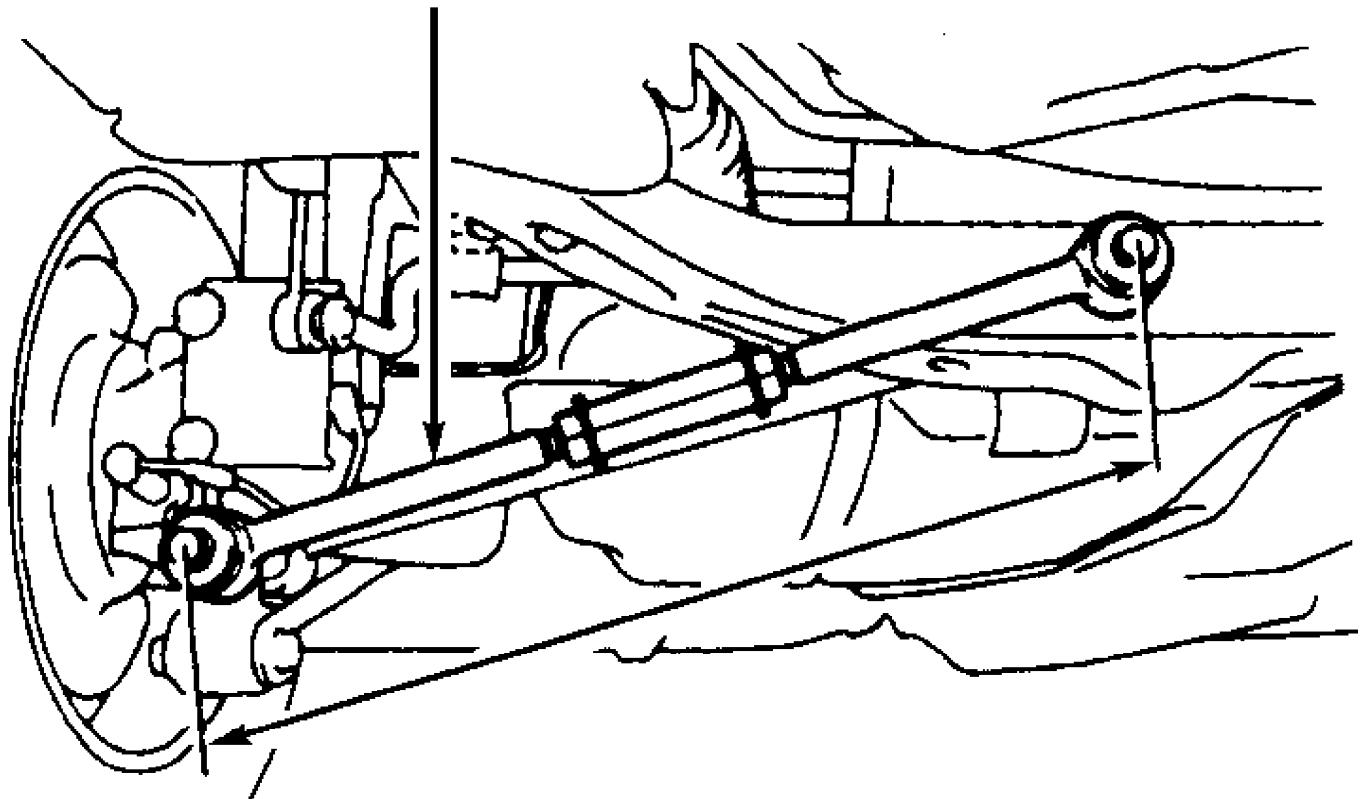
Rear Suspension

1) Measure rear camber. See WHEEL ALIGNMENT SPECIFICATIONS table. If adjustment is necessary, see appropriate adjustment procedure.

2) Bounce both ends of vehicle several times to settle suspension. Measure length of left and right No. 2 suspension arms. See Fig. 1. Ensure lengths of both arms are equal within 0.04" (1.0 mm).

3) If toe-in is not within specification, adjust toe-in by rotating rear toe adjuster sleeves, located on No. 2 suspension arms. See WHEEL ALIGNMENT SPECIFICATIONS table. Tighten lock nuts to specification after adjustment. See TORQUE SPECIFICATIONS.

No. 2 Suspension Arm



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Fig. 1: No. 2 Suspension Arm
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Rear Toe Adjuster Sleeve Lock Nuts	55 (75)
Tie Rod Lock Nuts	41 (56)
Wheel Lug Nuts	76 (103)

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Application	Preferred	Range
1.8L		
Camber (1)		
Front	-0.85	-1.6 To -0.1
Rear	-1.27	-2.02 To 0.52
Caster (1)	2.12	1.37 To 2.87
Steering Axis		
Inclination (1)	15.1	
Toe-In (2)		
Front	0 (0)	-0.08 To 0.08 (-2 To 2)
Rear	0.14 (3.5)	0.06 To 0.22 (1.5 To 5.5)
Toe-In (1)		
Front	0	-0.2 To 0.2
Rear	0.35	0.15 To 0.55
Toe-Out On Turns (1)		
Inner	36.73	
Outer	30.63	
2.2L		
Camber (1)		
Front	-0.77	-1.52 To -0.02
Rear	-1.17	-1.92 To 0.42
Caster (1)	2.08	1.33 To 2.83
Steering Axis		
Inclination (1)	14.97	
Toe-In (2)		
Front	0 (0)	-0.08 To 0.08 (-2 To 2)
Rear	0.14 (3.5)	0.06 To 0.22 (1.5 To 5.5)
Toe-In (1)		
Front	0	-0.2 To 0.2
Rear	0.35	0.15 To 0.55
Toe-Out On Turns (1)		
Inner	36.9	
Outer	30.73	

(1) - Measurement in degrees.
(2) - Measurement in inches (mm).