

2004 WHEEL ALIGNMENT

Specifications & Procedures - TSX

JACKING & HOISTING

NOTE: Prior to performing wheel alignment, perform preliminary visual and mechanical inspection of wheels, tires and suspension components. See **PRE-ALIGNMENT INSTRUCTIONS** in **WHEEL ALIGNMENT THEORY & OPERATION** article in **STEERING** in **GENERAL INFORMATION**.

WARNING: Never use a bumper jack for lifting or supporting vehicle.

FLOOR JACK

Set parking brake. Block wheels not being lifted. When lifting rear of vehicle, set manual transmission into Reverse, or automatic transmission into Park. Lift vehicle at indicated points. See **Fig. 1**.

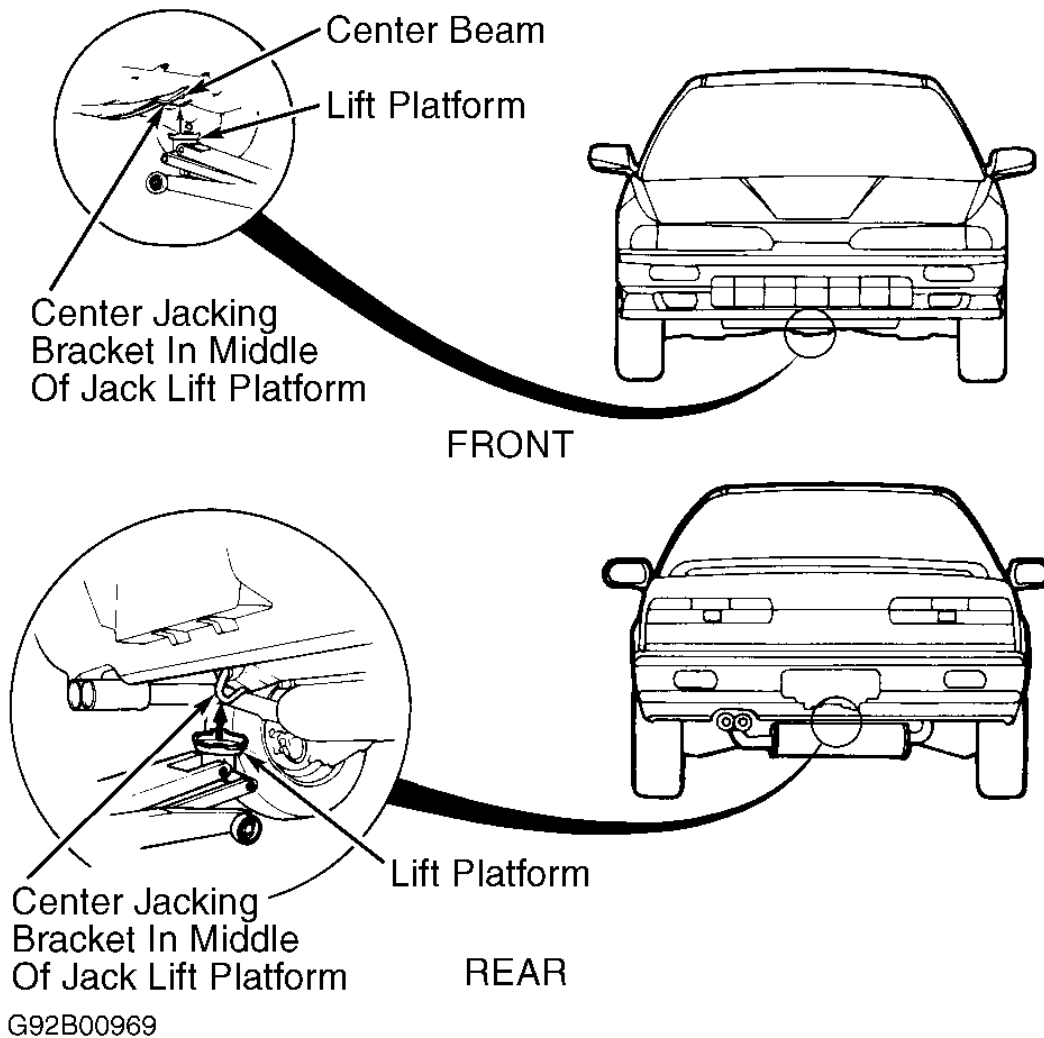
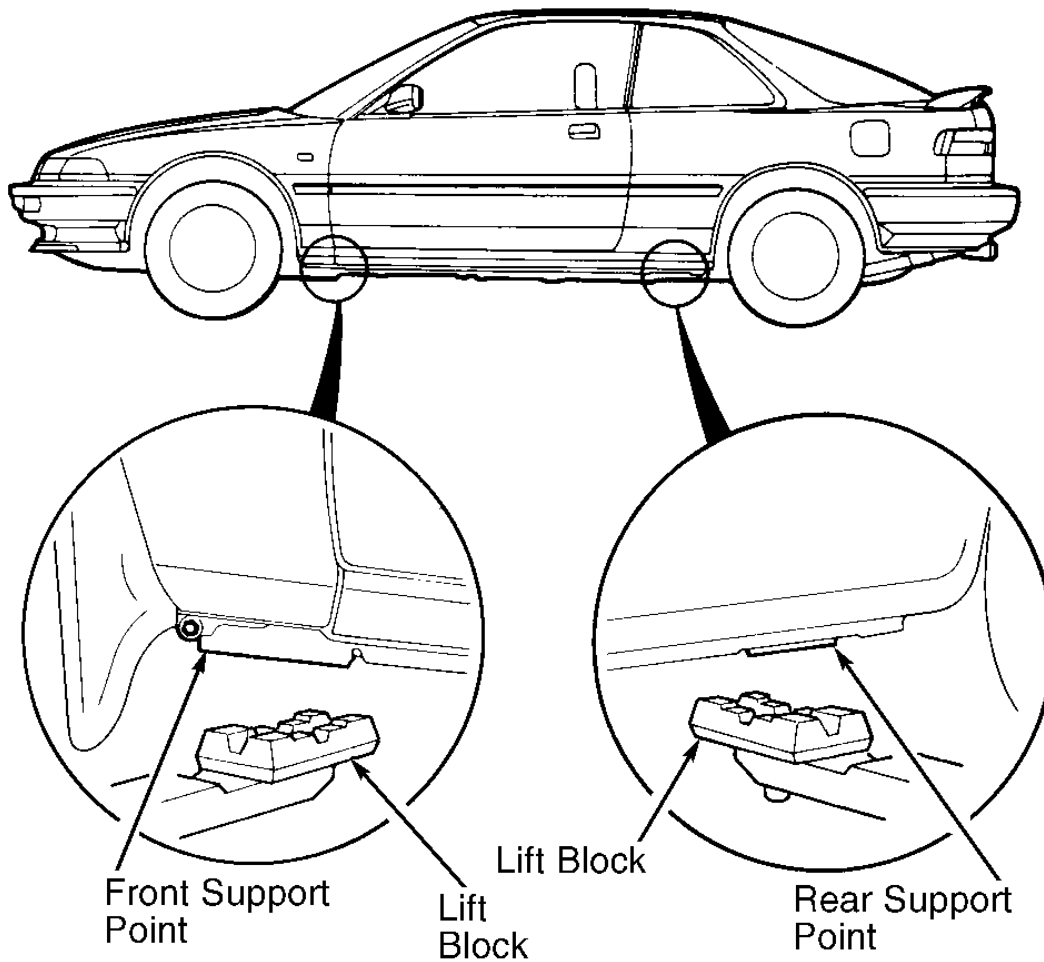


Fig. 1: Identifying Floor Jack Lifting Points (Typical)
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

HOIST

Position lift blocks as shown. See **Fig. 2** . Raise hoist a few inches. Rock vehicle to ensure it is firmly supported. Raise hoist to full height. Inspect lift points for solid support.



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Fig. 2: Identifying Hoist Lifting Points (Typical)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

WHEEL ALIGNMENT PROCEDURES

NOTE: Manufacturer recommends using commercially-available computerized 4-wheel alignment equipment to measure vehicle alignment.

CAMBER INSPECTION

1. Ensure suspension has not been modified. Ensure tire size and pressures are correct. Check wheel and tire runout. Check suspension ball joints for looseness or wobbling.
2. Read camber according to manufacturer instructions. If camber is not within specification, check for bent or damaged suspension components. See **WHEEL ALIGNMENT SPECIFICATIONS**.

CASTER INSPECTION

1. Ensure suspension has not been modified. Ensure tire size and pressures are correct. Check wheel and tire runout. Check suspension ball joints for looseness or wobbling. Check the steering wheel angle. If steering wheel is significantly off center, it may be necessary to remove the steering wheel and reposition it on the spline.
2. Read caster according to manufacturer instructions. If caster is not within specification, check for bent or damaged suspension components. See **WHEEL ALIGNMENT SPECIFICATIONS** .

TOE-IN ADJUSTMENT

NOTE: **Measure toe-in with wheels facing straight ahead.**

Front

1. Center steering wheel. Measure toe-in. Adjust toe-in if not within specification. See **WHEEL ALIGNMENT SPECIFICATIONS** . If adjustment is necessary, go to next step.
2. Loosen tie rod lock nuts. Adjust both the right and left wheels at the same time, by the same amount in opposite directions to obtain the correct toe-in and to keep the steering wheel straight. Tighten tie rod lock nuts while holding the tie-rod arm. Make sure the toe-in setting does not change. See **TORQUE SPECIFICATIONS** . Re-position tie rod boot if twisted or moved out of place.

Rear

1. Release parking brake. If parking brake is engaged, toe-in measurement may be incorrect. Check the toe-in. See **WHEEL ALIGNMENT SPECIFICATIONS** . If no adjustment is required, remove the alignment equipment. If adjustment is required, go to next step.
2. Hold adjusting bolt on lower control arm, and loosen lock nut. See **Fig. 3** . Turn adjuster bolt until toe-in is as specified. See **WHEEL ALIGNMENT SPECIFICATIONS** . Tighten self locking nut to specification while holding the adjusting bolt. See **TORQUE SPECIFICATIONS** .

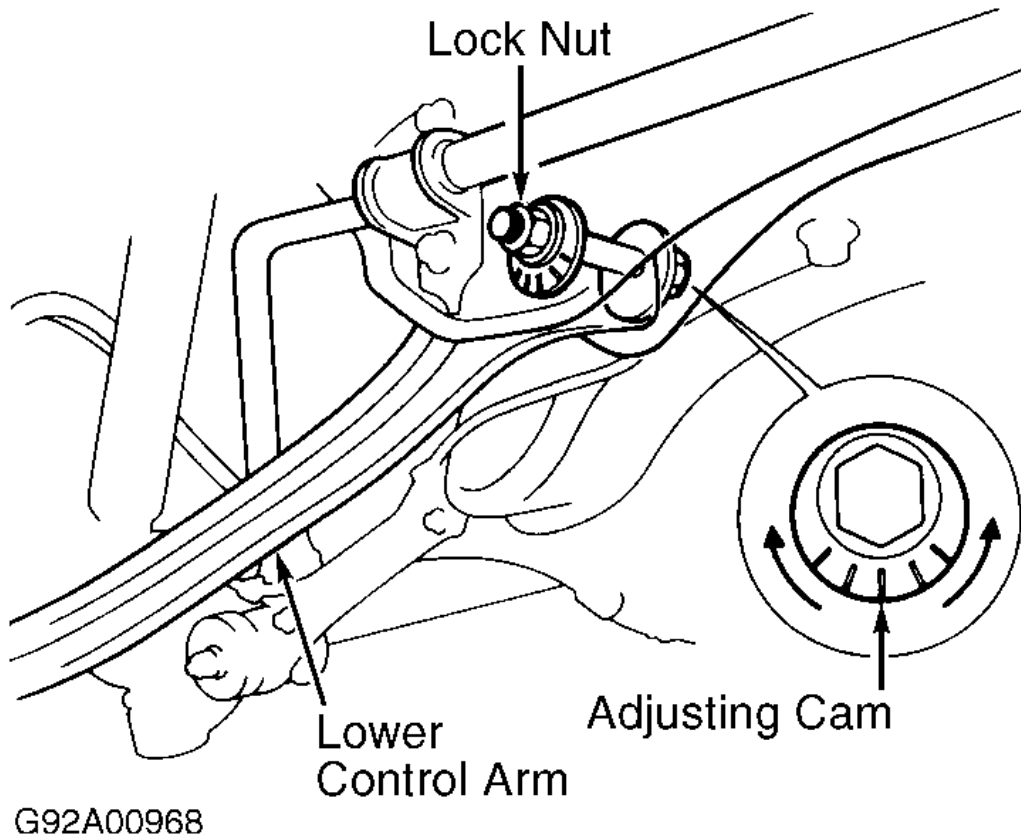


Fig. 3: Adjusting Rear Toe-In (Typical)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

TURNING ANGLE INSPECTION

Turn the steering wheel fully to the right and left while applying the brake, and check the turning angles of both front wheels. See **WHEEL ALIGNMENT SPECIFICATIONS**. If the turning angle is not within the specification or the inward turning angles differ between the right and left side, check for bent or damaged suspension components.

RIDING HEIGHT ADJUSTMENT

NOTE: Riding height specification is not available from manufacturer. Ensure riding height between left and right side of vehicle does not differ by more than 1" (25 mm).

TORQUE SPECIFICATIONS

2004 Acura TSX**2004 WHEEL ALIGNMENT Specifications & Procedures - TSX****TORQUE SPECIFICATIONS**

Application	Ft. Lbs. (N.m)
Rear Control Arm Self-Locking Nut	40 (54)
Spindle Nut	181 (245)
Tie Rod Lock Nut	33 (44)
Wheel Lug Nut	80 (108)

WHEEL ALIGNMENT SPECIFICATIONS**WHEEL ALIGNMENT SPECIFICATIONS**

Application	Preferred	Range
Camber ⁽¹⁾		
Front	0	-.75 To .75
Rear	-1	-1.5 To -.5
Caster ⁽¹⁾		
Front	3.22	2.47 To 3.97
Toe-In ⁽²⁾		
Front	0	-.08 To .08 (-2 To 2)
Rear	.08 (2)	0 To .16 (0 To 4)
Toe-Out On Turns ⁽¹⁾		
Inner	35.25	N/A
Outer	29.63	N/A
Turning Angle ⁽¹⁾		
Inward Wheel	35.25	33.25 To 37.25
Outward Wheel (Reference)	29.63	N/A
(1) Measurements are in degrees.		
(2) Measurements are in inches (mm).		