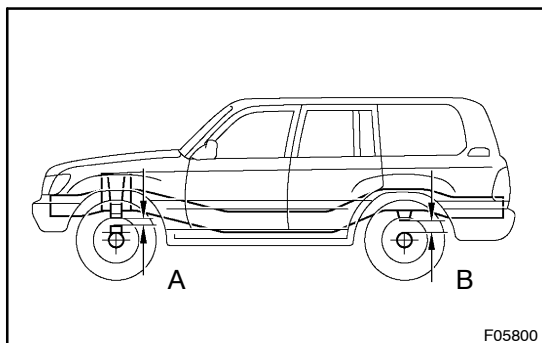




FRONT WHEEL ALIGNMENT (Rigid Front Suspension) INSPECTION

SA1A3-01

1. MEASURE VEHICLE HEIGHT

Clearance:

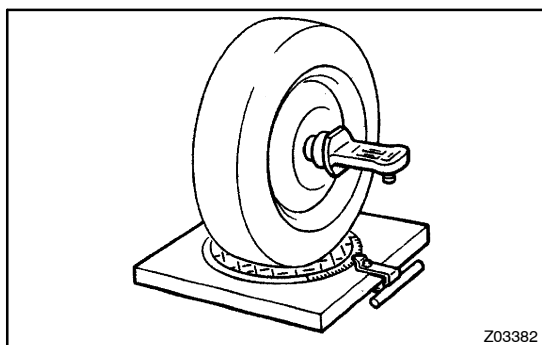
A: Distance from the front axle housing to the follow spring

B: Distance from the rear axle housing to the bumper stopper

Destination	Clearance	
	Front mm (in.)	Rear mm (in.)
G.C.C.	36.8 (1.45)	86.7 (3.41)
AUSTRALIA	47.1 (1.85)	110.0 (4.33)
OTHERS	34.8 (1.37)	113.0 (4.45)

If the clearance of the vehicle is not standard, try to level the vehicle by rocking it down.

If still not correct, check for bad springs or suspension parts.



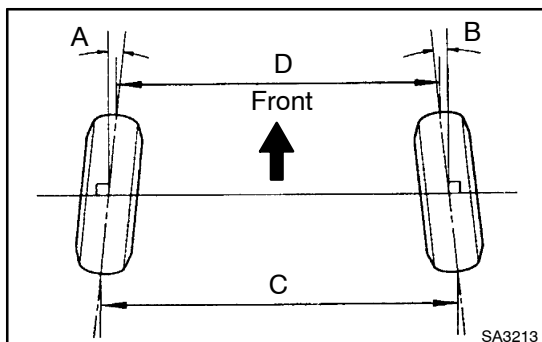
2. INSTALL CAMBER-CASTER-KINGPIN GAUGE OR POSITION VEHICLE ON WHEEL ALIGNMENT TESTER

Follow the specific instructions of the equipment manufacturer.

3. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

Camber	Left-right error	$1^{\circ} \pm 45'$ ($1^{\circ} \pm 0.75^{\circ}$) 45' (0.75°) or less
Caster (G.C.C.)	Left-right error	$2^{\circ}30' \pm 45'$ ($2.5^{\circ} \pm 0.75^{\circ}$) 45' (0.75°) or less
Caster (AUSTRALIA)	Left-right error	$1^{\circ}40' \pm 45'$ ($1.67^{\circ} \pm 0.75^{\circ}$) 45' (0.75°) or less
Caster (OTHERS)	Left-right error	$2^{\circ}10' \pm 45'$ ($2.17^{\circ} \pm 0.75^{\circ}$) 45' (0.75°) or less
Steering axis inclination		$13^{\circ} \pm 45'$ ($13^{\circ} \pm 0.75^{\circ}$)

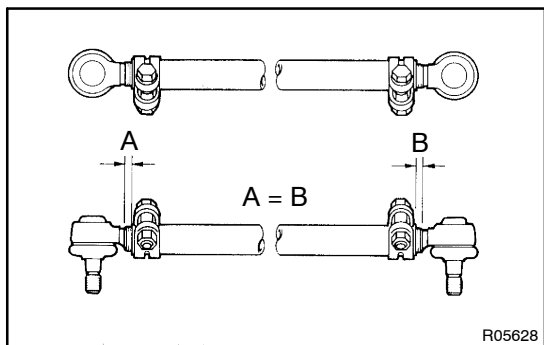
Camber, caster and steering axis inclination are not adjustable. If measurements are not within the specification, inspect the suspension parts for damaged and/or worn out and replace them as necessary.



4. INSPECT TOE-IN

Toe-in (total)	A + B: $0^{\circ}12' \pm 12'$ ($0.2^{\circ} \pm 0.2^{\circ}$)
	C - D: 2 ± 2 mm (0.08 ± 0.08 in.)

If the toe-in is not within the specification, adjust by the tie rod ends.



5. ADJUST TOE-IN

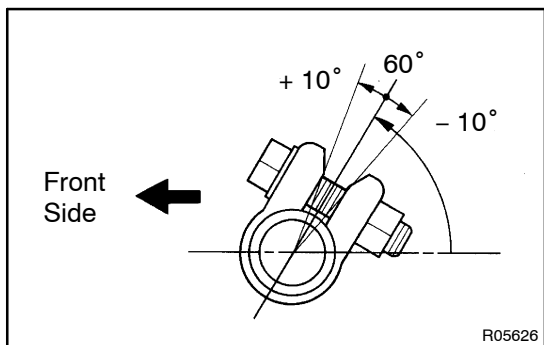
- Loosen the clamp bolts and nuts.
- Adjust toe-in to the correct value by turning the tie rod.

HINT:

Make sure that the lengths of the left and right tie rod ends are the same.

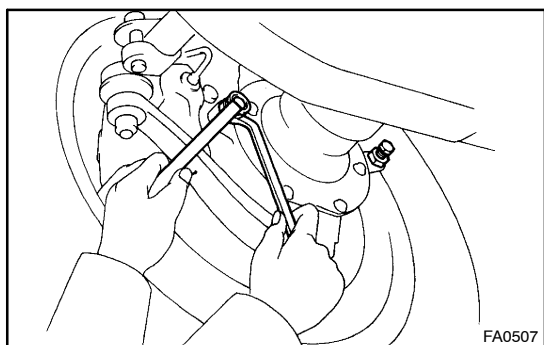
- Torque the clamp bolts and nuts.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)



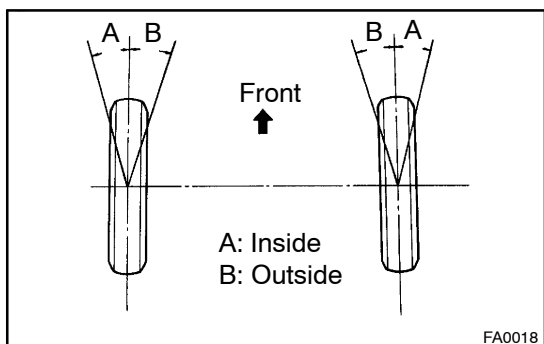
HINT:

The clamps opening must be positioned at the rear of the tie rod and faced within $60^\circ \pm 10^\circ$ from the vehicle axis.



6. INSPECT WHEEL ANGLE

- Remove the caps of the knuckle stopper bolts and check the steering angles.



- Turn the steering wheel fully, and measure the turning angle.

Inside wheel	$32^\circ - 35^\circ$
Outside wheel (Reference)	31°

HINT:

When the steering wheel is fully turned, make sure that the wheel is not touching the body or brake flexible hose.

If the maximum steering angle differs from the standard value, adjust the wheel angle with the knuckle stopper bolts.

Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)

If the wheel angle still cannot be adjusted within the limit, inspect and replace damaged or worn steering parts.