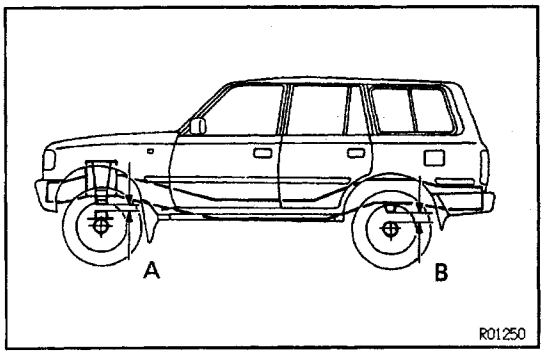


FRONT WHEEL ALIGNMENT

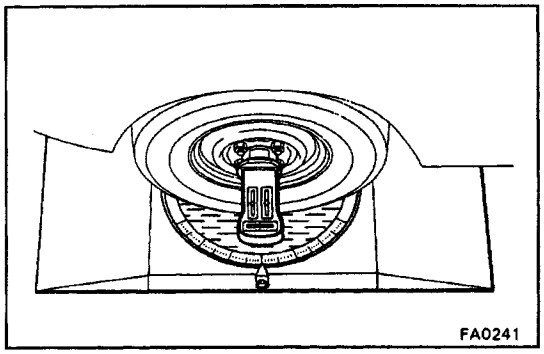
1. MEASURE VEHICLE HEIGHT

SA17C-01

Clearance:

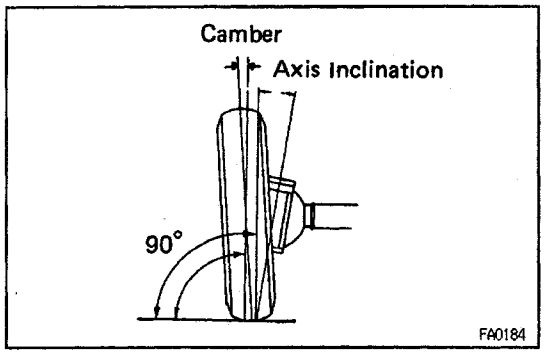
A (Follow spring clearance) 36 mm (1.42 in.)
B (Bumper stopper clearance) 104 mm (4.09 in.)

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 ONTO WHEEL ALIGNMENT TESTER

Follow the specific instructions of the equipment manufacturer.



3. INSPECT CAMBER AND STEERING AXIS INCLINATION

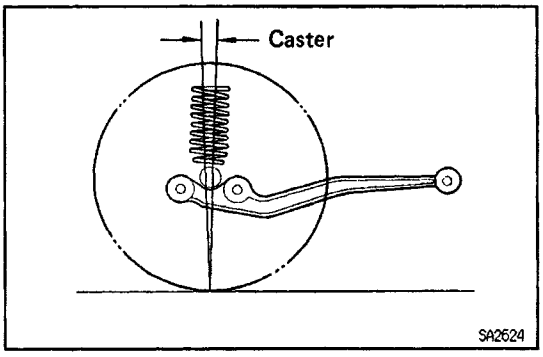
Camber:

1°00' ± 45'

Steering axis inclination:

13°00' ± 45'

If the steering axis inclination is not as specified after camber have been correctly adjusted, recheck the steering knuckle and front wheel for distortion or looseness.

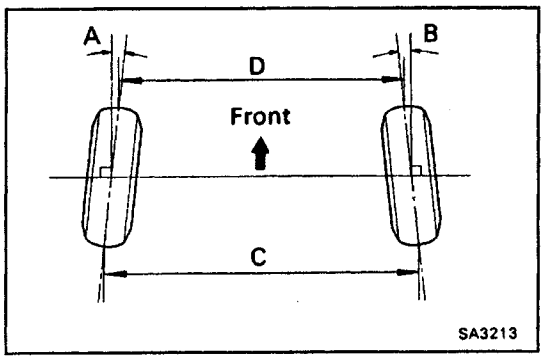


4. INSPECT CASTER

Caster:

3°00' ± 1°

If caster is not as specified, inspect and replace damage or worn parts.

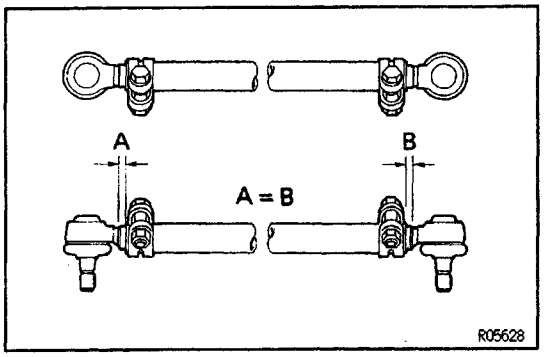


5. INSPECT TOE-IN

Toe-in (total):

2mm ± 2mm(0.16 in.±0.16 in.)

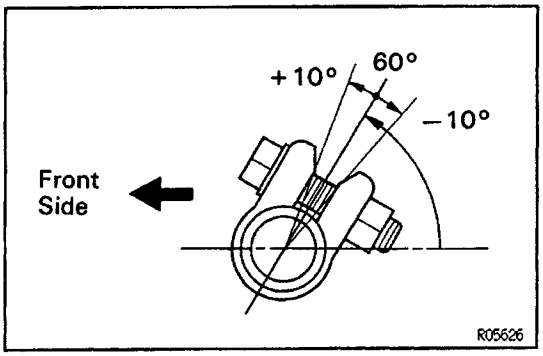
If toe-in is not within specification adjust by the tie rod end.



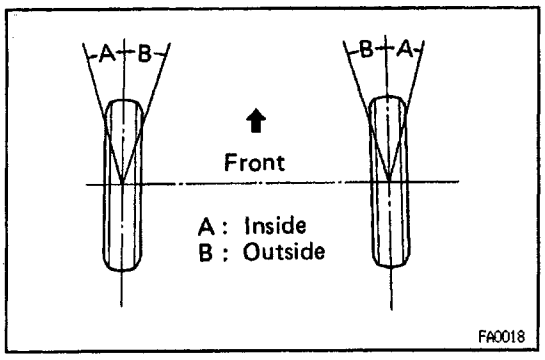
6. ADJUST TOE-IN

(a) Loosen the clamp bolts and nuts.
(b) Adjust toe-in to the correct value by turning the tie rod.
(c) Ensure that the lengths of the tie rod ends are same.
(d) 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 face within 60° ± 10° from the vertical axis.

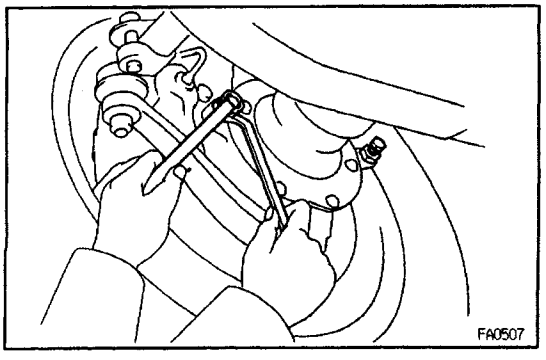


7. INSPECT WHEEL ANGLE

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

Wheel angle:

Inside wheel	32°00' - 35°00'
Outside wheel (reference)	31°00'



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

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

Torque: 44 N-m (450 k9f-cm, 33 ft-lbf)

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