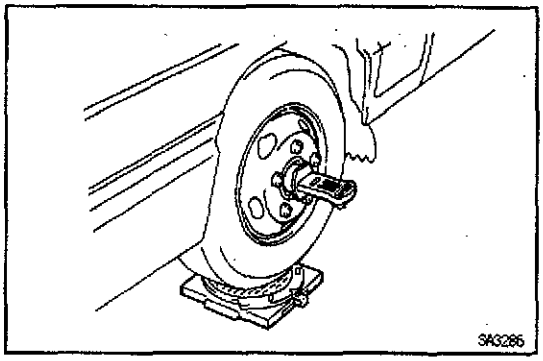
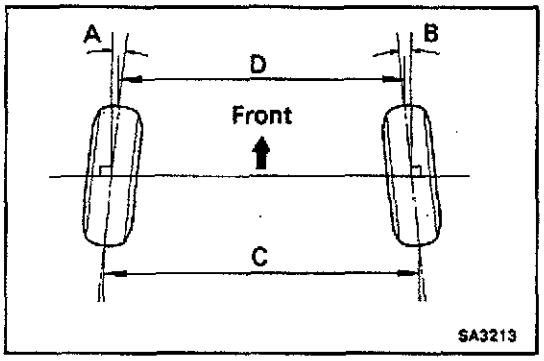


FRONT WHEEL ALIGNMENT

1. INSTALL WHEEL ALIGNMENT EQUIPMENT

Follow the specific instructions of the equipment manufacturer.

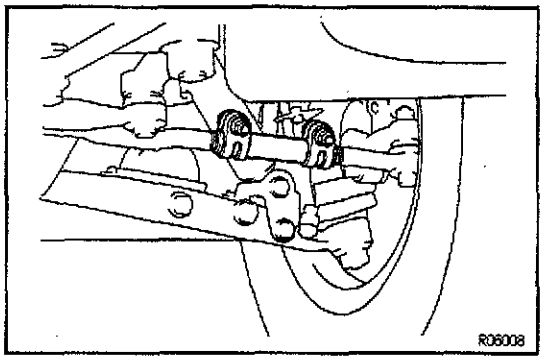


2. INSPECT TOE–IN

Toe–in (total):

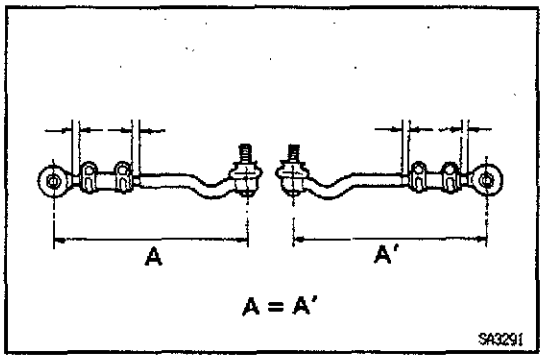
Tire size	Toe–in
6.50R16	2.5 ± 2 mm (0.10 ± 0.08 in.)
7.00R16	3.5 ± 2 mm (0.14 ± 0.08 in.)

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



3. ADJUST TOE–IN

(a) Loosen the clamp nuts.

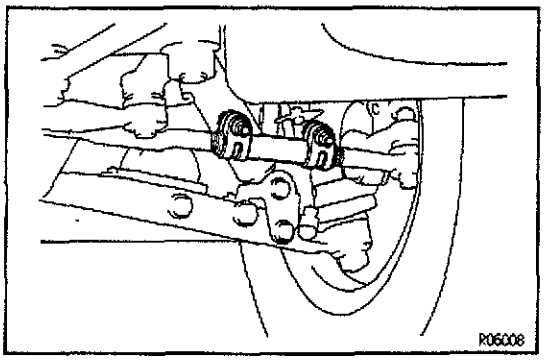


(b) Adjust toe–in by turning the left and right tie rod tubes an equal amount.

Toe–in (total):

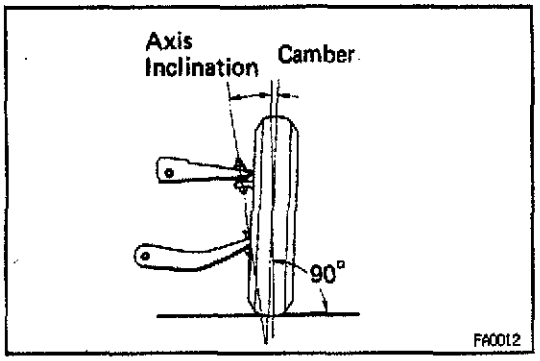
Tire size	Toe–in
6.50R16	2.5 ± 1 mm (0.10 ± 0.04 in.)
7.00R16	3.5 ± 1 mm (0.14 ± 0.04 in.)

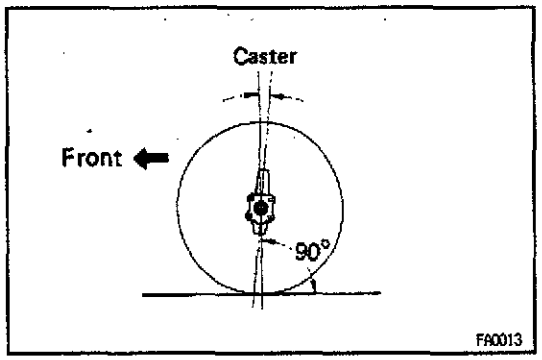
Ensure that the lengths of the left and right tie rods are equal.



(c) Torque the clamp nuts.

Torque: 40 N·m (410 kgf·cm, 30 ft·lbf)





4. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

Camber:

0° ± 45'

Caster:

4°30' ± 45'

Steering axis inclination:

13°00' (reference)

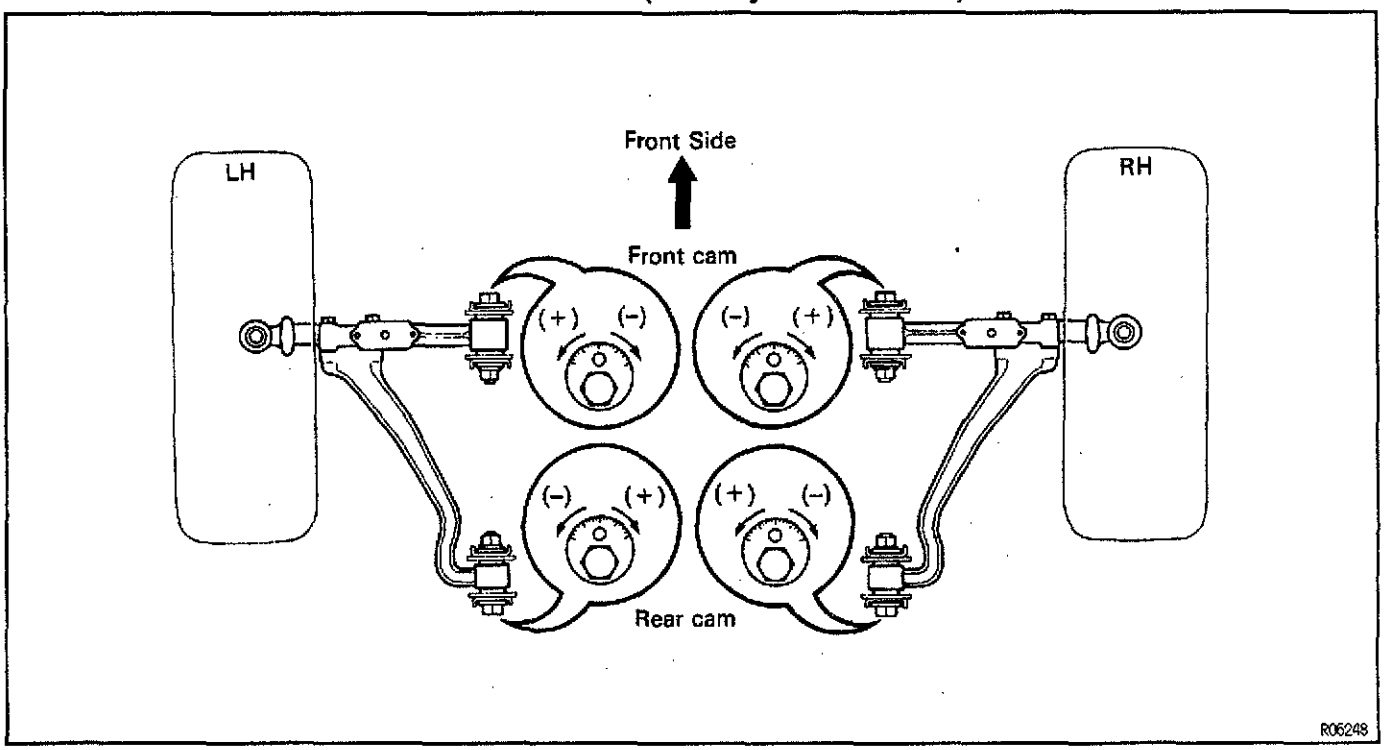
Left–right error:

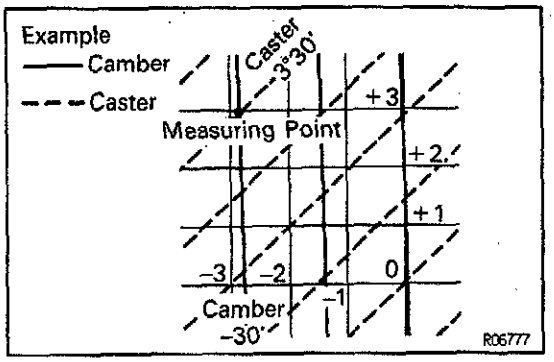
30' or less

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

SA

If camber and/or caster are not within specification, adjust by front and/or rear adjusting cams.
(See Adjustment Chart)



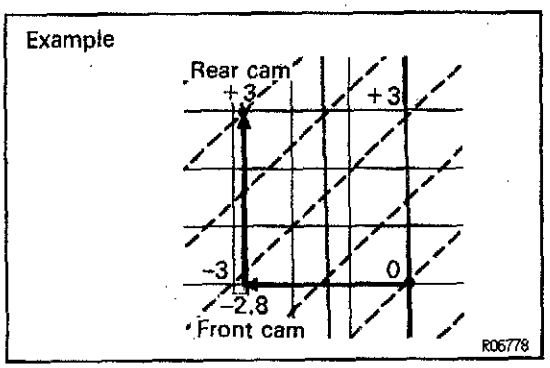


(How to Read the Chart)

(a) Mark on the adjustment chart the alignment values measured with the vehicle at standard height.

Example:

Camber −0°30'
Caster 3°30'



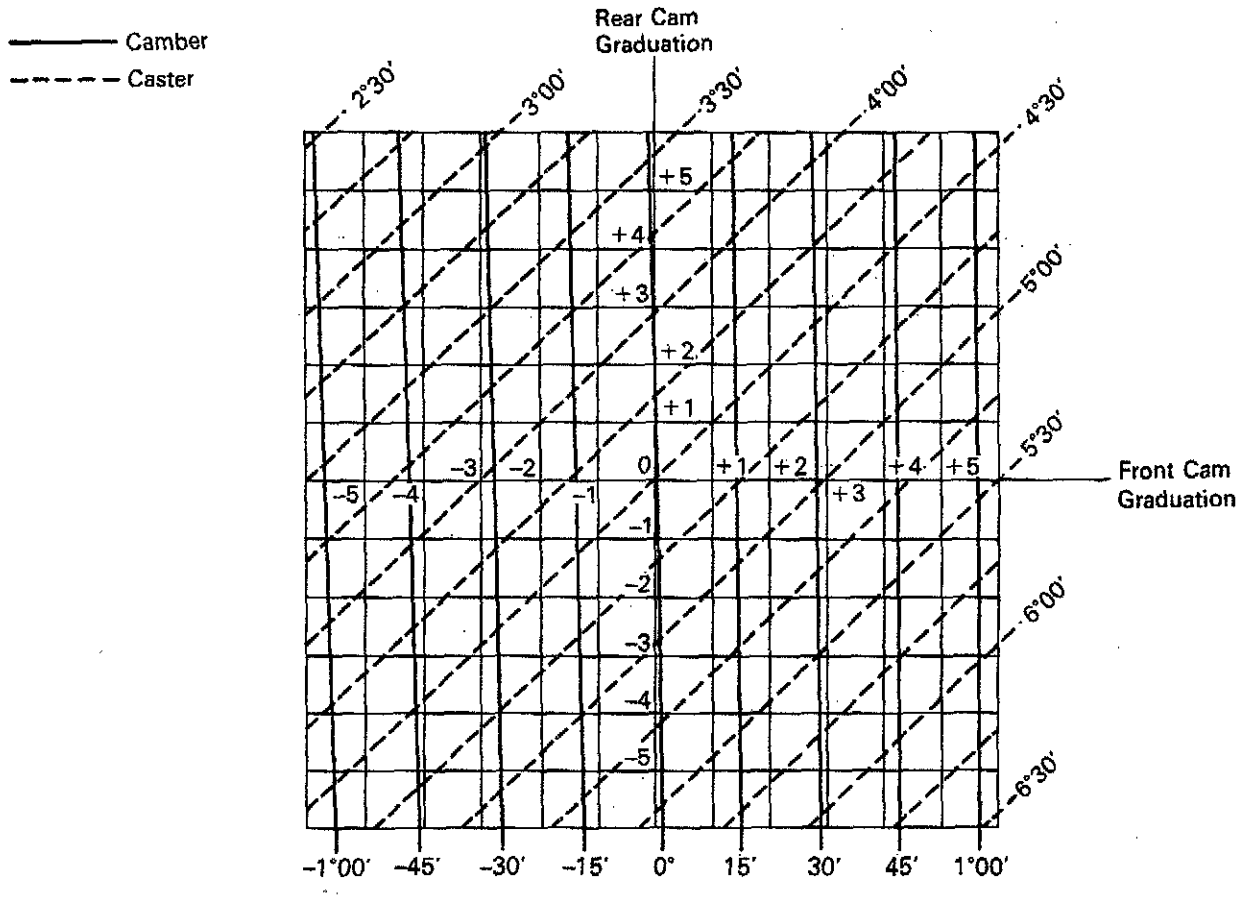
(b) To calculate the amounts by which the front and/or rear cams are to be adjusted, read from the adjustment chart the distance from the center of the chart to the mark you have made, as shown in the illustration.

Example:

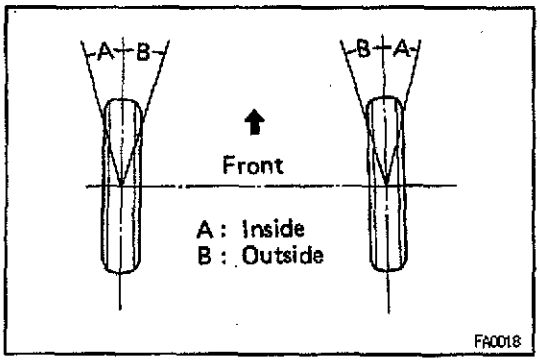
Front cam −2.8
Rear cam +3.0

(c) Torque the front and/or rear cam nuts.

Torque: 215 N·m (2,200 kgf·cm, 158 ft·lbf)



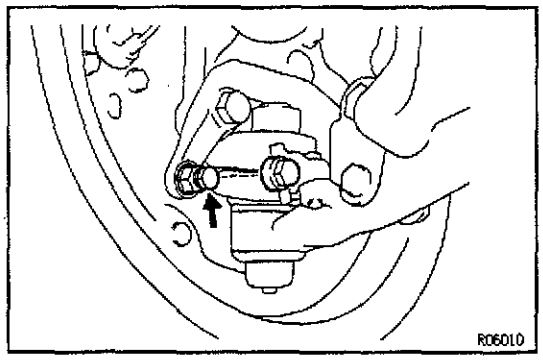
SA



5. INSPECT WHEEL ANGLE

Wheel angle:

Item	Inside wheel	Outside wheel *(reference)*
Max.	37°30′ ~ 40°30′	35°50′



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

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

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

SA