WHEEL ALIGNMENT

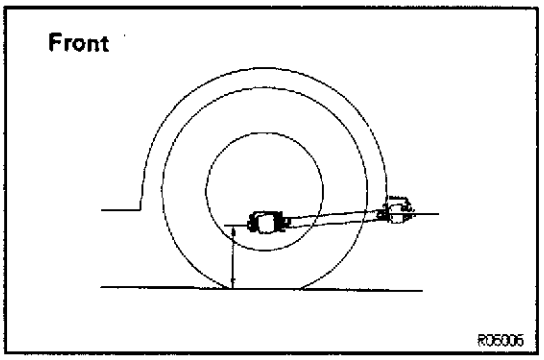
FRONT WHEEL ALIGNMENT

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1. MEASURE VEHICLE HEIGHT

Front vehicle height

Tire size	Front
6.50R16	267 ± 1 mm (10.68 ± 0.04 in.)
7.00R16	288 ± 1 mm (11.48 ± 0.04 in.)

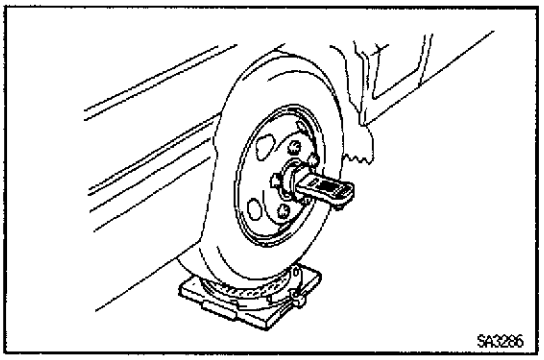


Measuring point:

Measure from the ground to the center of the lower suspension arm front mounting bolt.

NOTICE: Before inspecting the wheel alignment, adjust the vehicle height to specification.

If the vehicle height is not standard, try to adjust it by pushing down on or lifting the body.



2. INSTALL CAMBER–CASTER–KINGPIN GAUGE OR ONTO WHEEL ALIGNMENT TESTER

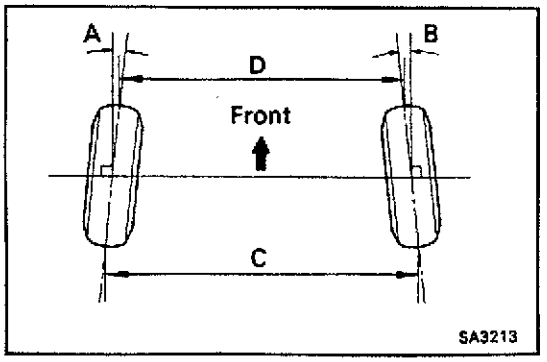
Follow the specific instructions of the equipment manufacturer.

3. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

Specifications

Camber	0°00′ ± 45′
Left–right error	45′ or less
Caster	4°30′ ± 45′
Left–right error	45′ or less
Steering axis inclination	13°00′ ± 45′ (Reference)

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

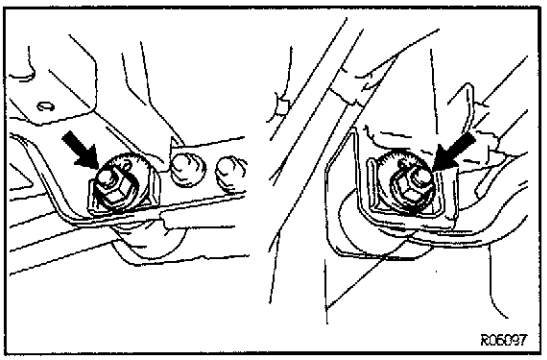


4. INSPECT TOE–IN

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.



5. ADJUST CAMBER AND CASTER

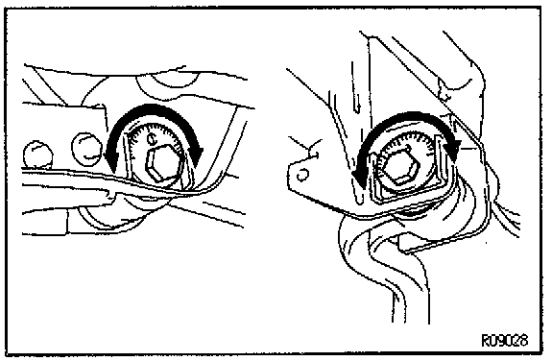
Specifications

Camber	0°00′ ± 30′
Left–right error	30′ or less
Caster	4°30′ ± 30′
Left–right error	30′ or less

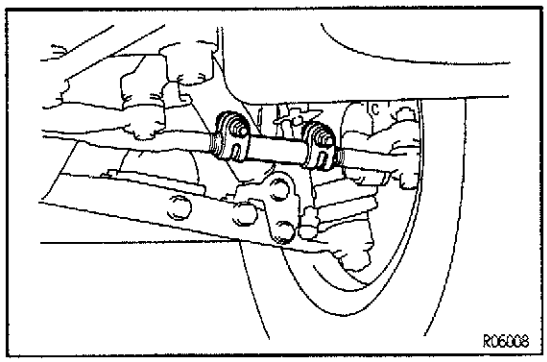
(a) Loosen the front and/or rear adjusting cam nuts.

(b) Adjust the camber and caster by front and/or rear adjusting cams.
(See adjustment chart)

(c) Torque the front and/or rear adjusting cam nuts.
Torque: 215 N·m (2,200 kgf·cm, 158 ft·lbf)

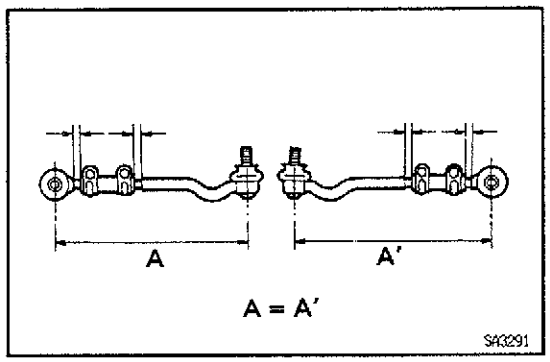


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6. ADJUST TOE–IN

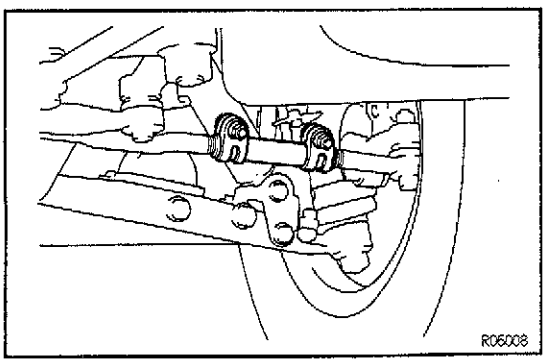
(a) Loosen the clamp bolts and nuts.



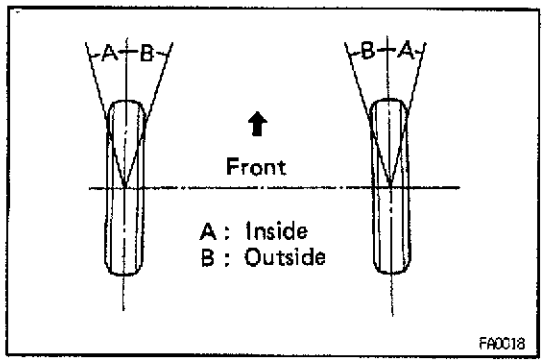
(b) Adjust toe–in by turning the left and right tie rod tubes an equal amount.
Toe–in (total)

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.



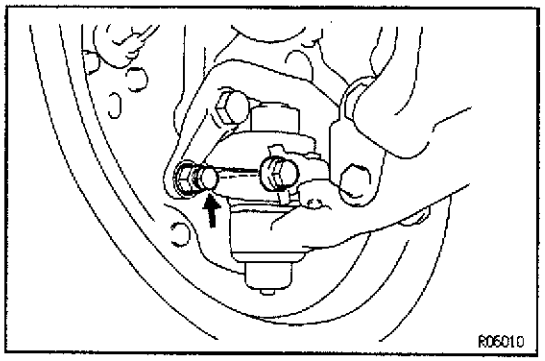
(c) Torque the tie rod.
Torque: 40 N·m (410 kgf·cm, 30 ft·lbf)



7. INSPECT WHEEL ANGLE

Wheel angle

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

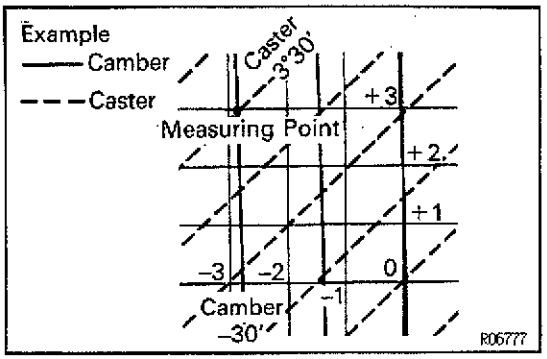


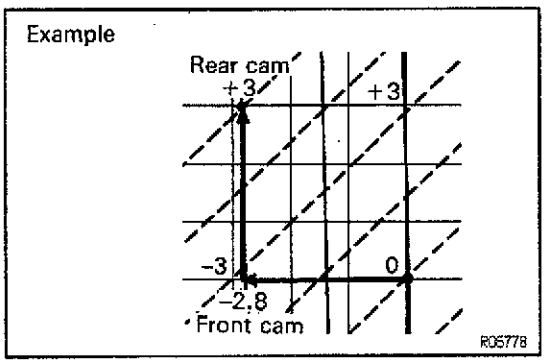
If maximum steering angles differ from standard value, adjust the wheel angle with the knuckle stopper bolts.

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.

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ADJUSTMENT CHART

HOW TO READ ADJUSTMENT CHART

(a) Mark on the graph the measurements taken from the vehicle.

Example:

Camber −0°30′

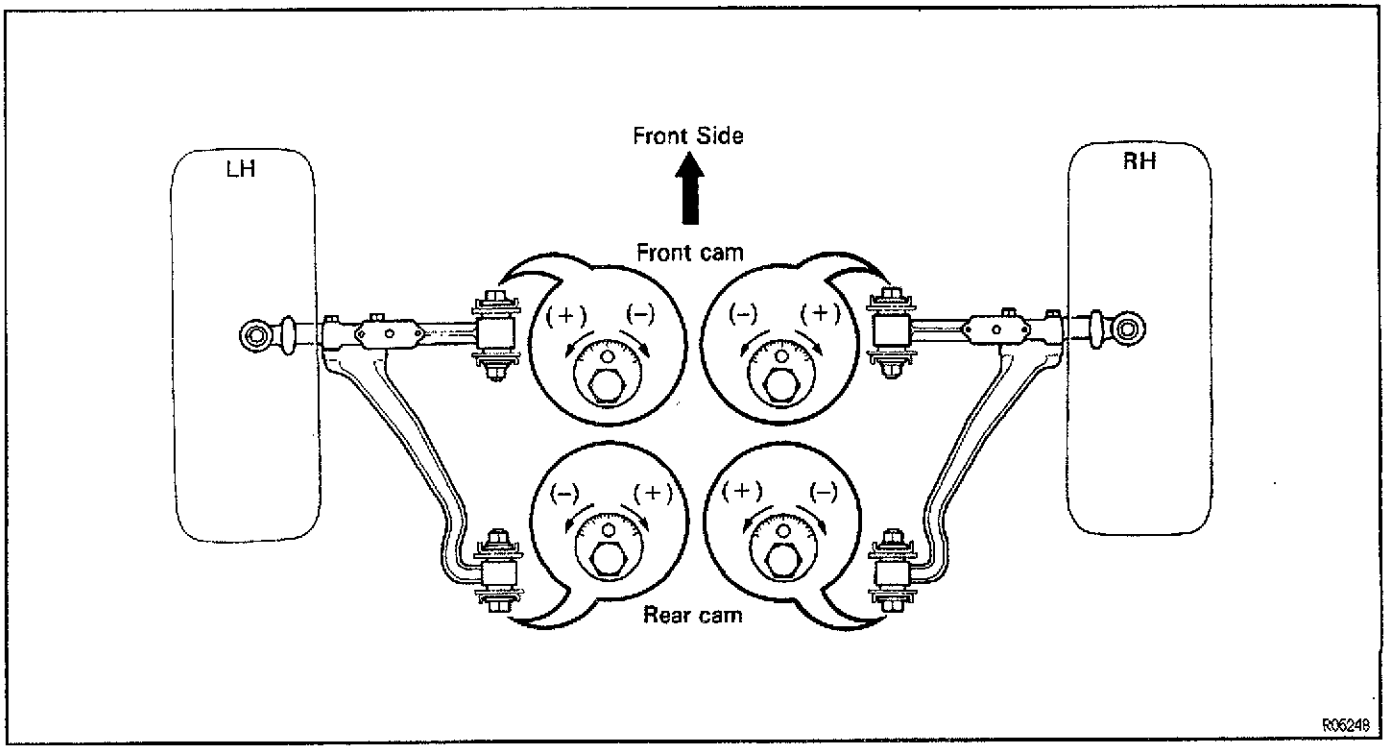
Caster 3°30′

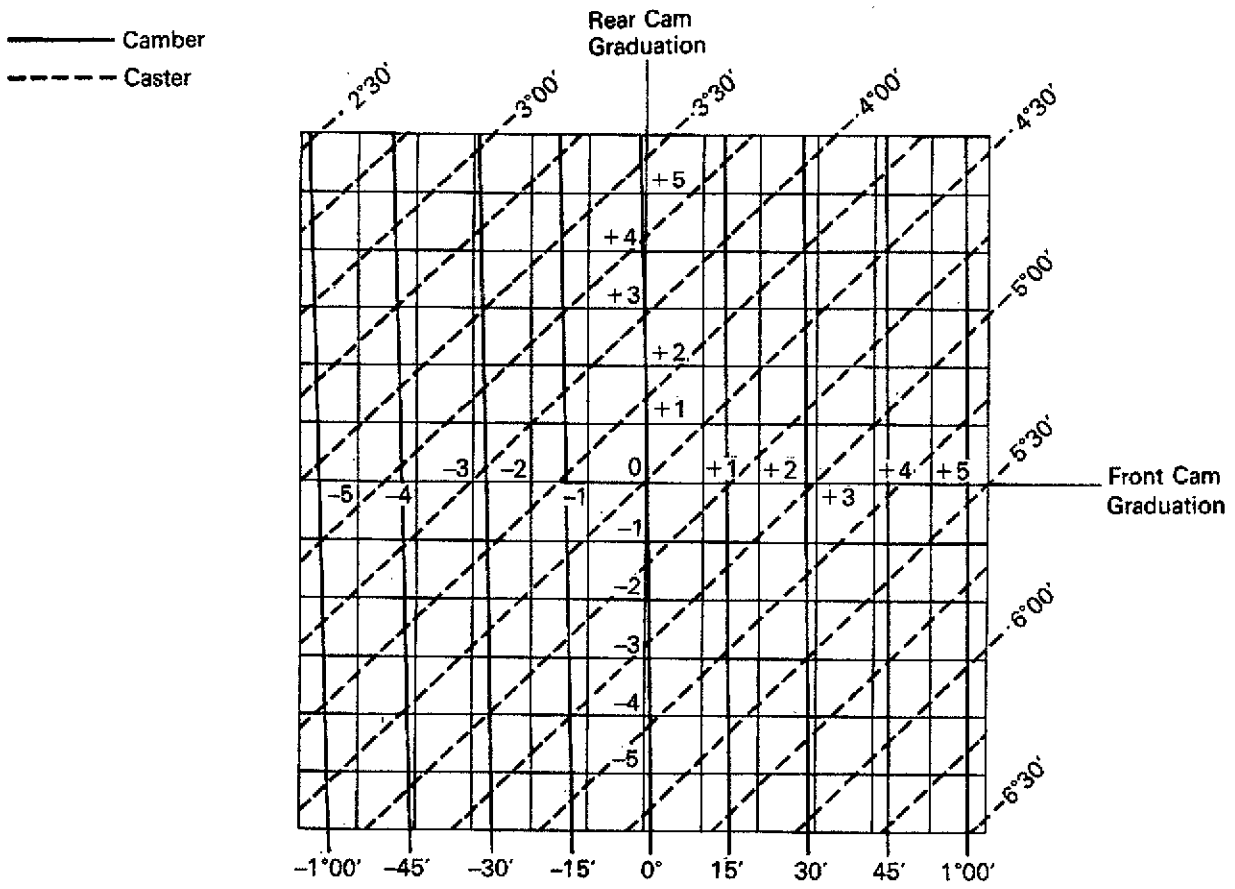
(b) As shown in the illustration, read from the graph the amounts by which the front and/or rear cams are to be adjusted.

Amount to turn adjusting cam (by graduation):

Front cam −(Shorter) 2.8

Rear cam +(Longer) 3.0




Camber
Caster
Rear Cam Graduation
2°30'
3°00'
3°30'
4°00'
4°30'
5°00'
5°30'
6°00'
6°30'
+5
+4
+3
+2
+1
0
-1
-2
-3
-4
-5
-5
-4
-3
-2
-1
+1
+2
+3
+4
+5
Front Cam Graduation
-1°00'
-45'
-30'
-15'
0°
15'
30'
45'
1°00'

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