FRONT WHEEL ALIGNMENT

260D1–01

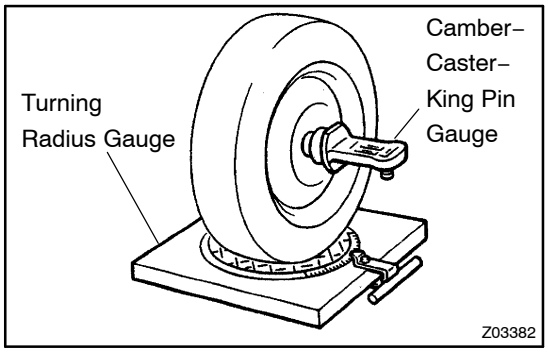
INSPECTION

HINT:

Type A: Standard cab, Wide cab 2.0 t except Australia

Type B: Wide cab over 2.0 t, Australia wide cab 2.0 t & Standard cab

1. INSPECT TIRE (See page 28–1)



2. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

(a) Put the vehicle on a turning radius gauge.

(b) Using a screwdriver, remove the hub grease cap.

(c) Remove the cotter pin and adjusting lock cap.

(d) Install a camber–caster–king pin gauge.

HINT:

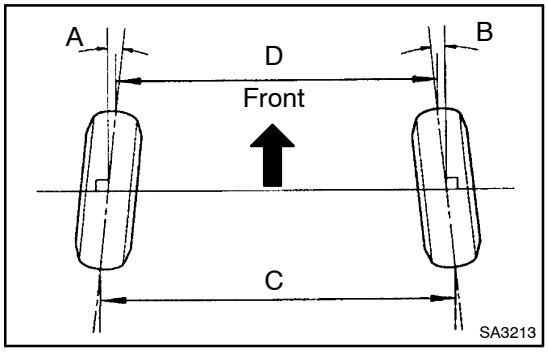
For the details of equipments, follow the manufacture's instructions.

(e) Measure the camber, caster and steering axis inclination.

Standard:

Model	Type	Camber	Caster	Steering Axis Inclination
Standard cab	A	0° 30' ± 1°	2° 30' ± 1°	7° 30' ± 1°
Wide cab Australia & Hong Kong 2.0 t	B	0° 30' ± 1°	2° 30' ± 1°	7° 30' ± 1°
Wide cab 2.0 t (Rubber bush type)	A	0° 30' ± 1°	2° 30' ± 1°	7° 30' ± 1°
Wide cab 2.0 t (Metal bush type)	A	0° 30' ± 1°	1° 30' ± 1°	7° 30' ± 1°
Wide cab over 2.0 t	B	1° 00' ± 1°	2° 00' ± 1°	7° 00' ± 1°

If the results are not as specified, check and replace the suspension part.



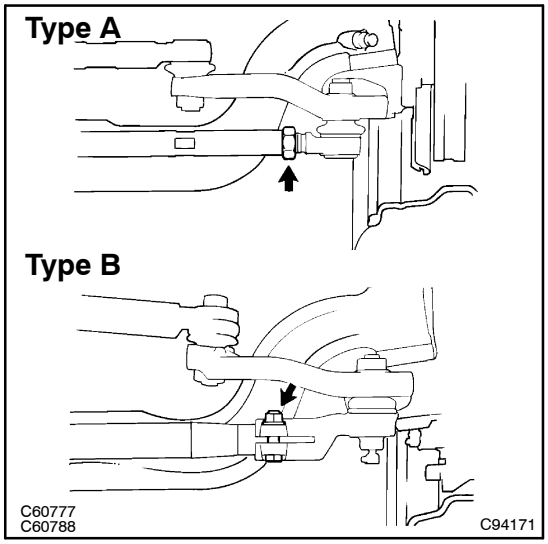
3. INSPECT TOE–IN

(a) Check that the toe–in is with in the specified range.

Standard:

Toe–in (Total)	A + B	0° – 0° 09' (0° – 0.15°)
	C – D	0 – 2 mm (0 – 0.08 in.)

If the toe–in is not as specified, proceed to the next step.



4. ADJUST TOE–IN

(a) Loosen the tie rod end lock nut.

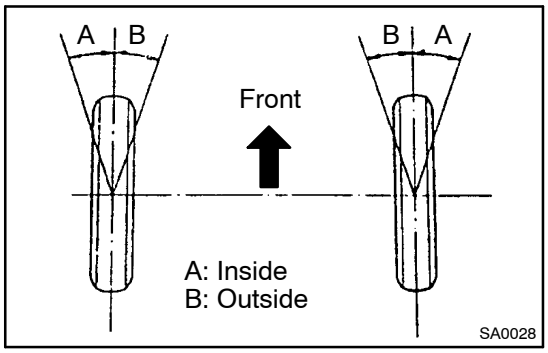
(b) Using a pipe wrench, turn the tie rod by an equal amount to adjust the toe–in.

HINT:

Adjust the toe–in to the intermediate value of the specified range.

(c) Tighten the tie rod end lock nut.

Torque:
137 N·m (1,400 kgf·cm, 101 ft·lbf) for type A
74 N·m (760 kgf·cm, 55 ft·lbf) for type B



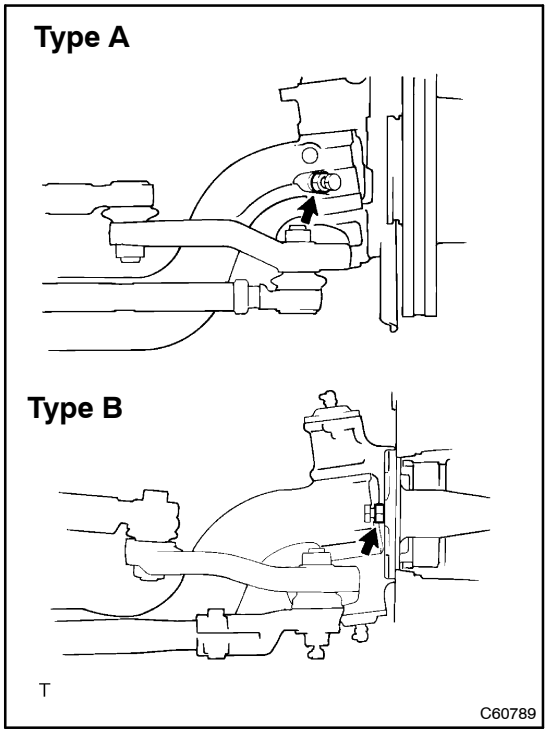
5. INSPECT WHEEL ANGLE

(a) Fully steer the steering wheel and measure the turning angle.

Wheel angle:

Model	Type	Front Tire Size	Inside	Outside (Reference)
Standard cab	A	7.00–16–10, 12 7.00R–16–10, 12	33 – 36°	28°
Standard cab Australia	A	195/75R15	42 – 45°	31° 30'
		185/85R16	36 – 39°	29°
Wide cab 2.0 t Australia	B	195/85R16	46 – 49°	35°
Wide cab 2.0 t Hong Kong	A	205/85R16	48 – 51°	36°
Wide cab 2.0 t	A	7.00–16–10	48 – 51°	36°
Wide cab over 2.0 t	B	7.50–16–10, 12, 14 7.50R–16–10, 12, 14 205/85R16 205/75R17.5 215/85R16 225/80R17.5	47 – 50°	36° 30'

If the right and left inside wheel angles differ from the specified values, check the length of the right and left tie rod ends.



6. ADJUST WHEEL ANGLE

(a) Fixing the knuckle stopper bolt, loosen the nut.

(b) Adjust the knuckle stopper bolt length.

(c) Fixing the knuckle stopper bolt, tighten the nut.

Torque:

43 N·m (440 kgf·cm, 32 ft·lbf) for type A

74 N·m (760 kgf·cm, 55 ft·lbf) for type B

HINT:

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