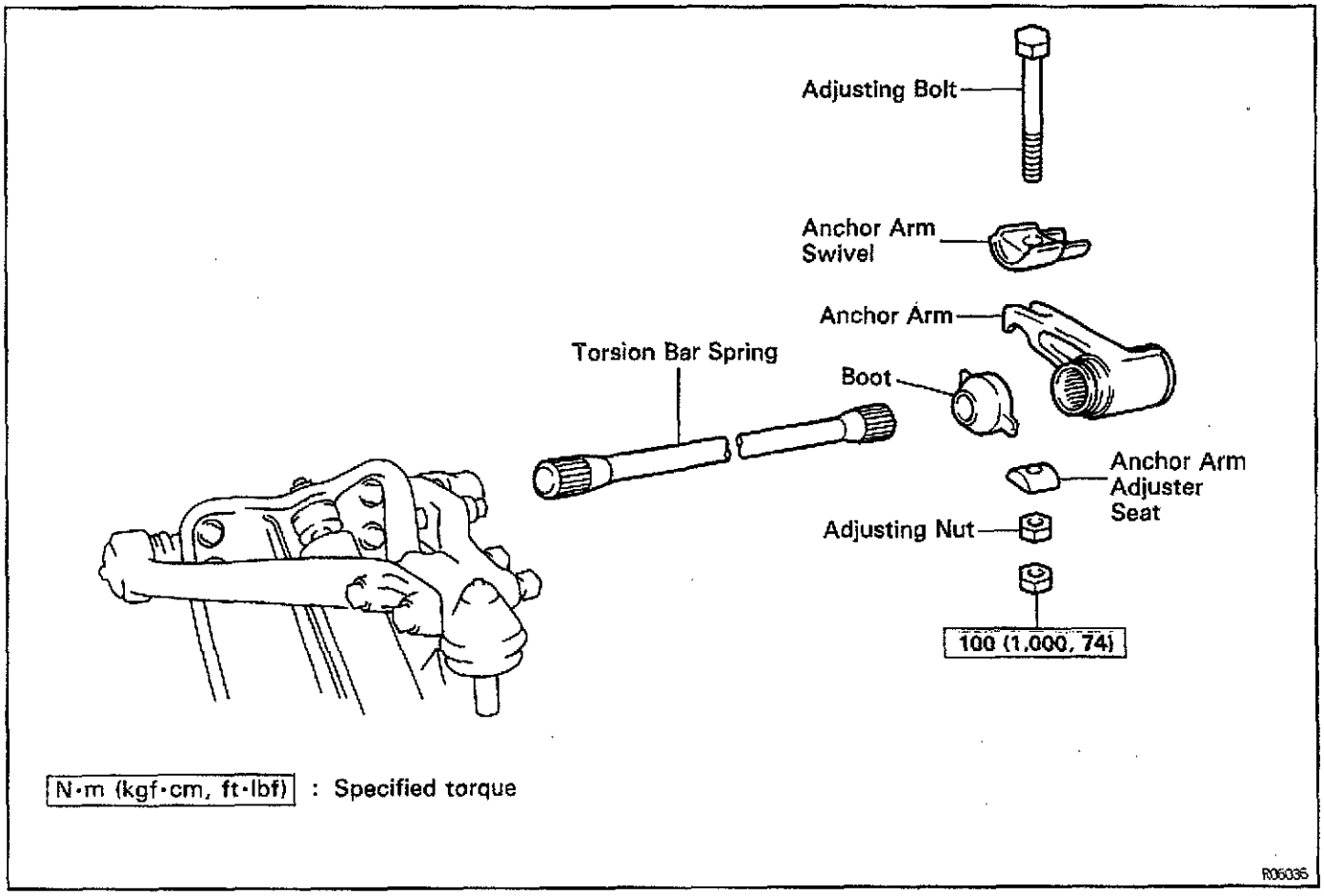
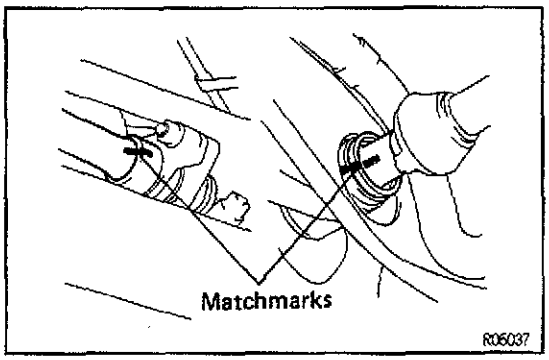
TORSION BAR SPRING
COMPONENTS

SA0FF-02

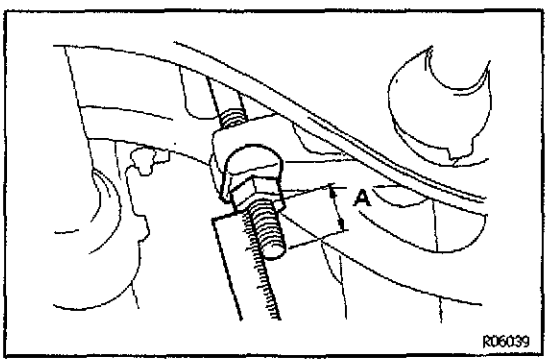




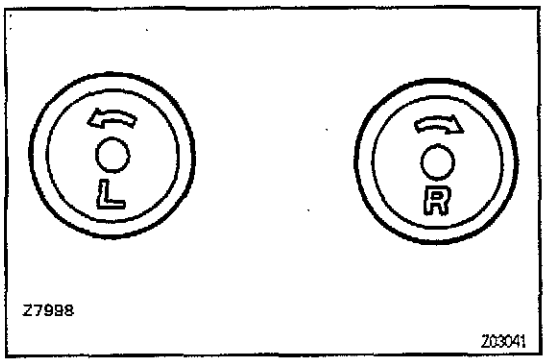
SA0X3-01

TORSION BAR SPRING REMOVAL

1. **JACK UP AND SUPPORT FRAME ON STANDS**
2. **REMOVE FRONT WHEEL**
3. **PLACE MATCHMARKS**
   Place the matchmarks on the torsion bar spring, torque arm and anchor arm.



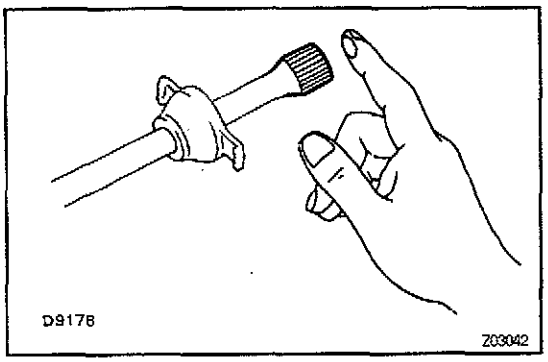
4. **REMOVE ANCHOR ARM LOCK NUT AND MEASURE PROTRUDING BOLT END "A" AS SHOWN**
   HINT: Use this measurement for reference when adjusting the vehicle height.
5. **LOOSEN ADJUSTING NUT AND REMOVE ANCHOR AND TORSION BAR SPRING**



TORSION BAR SPRING INSTALLATION

SA0X4-01

HINT: There are left and right matchmarks on the rear end of the torsion bar springs.
Be careful not to interchange them.

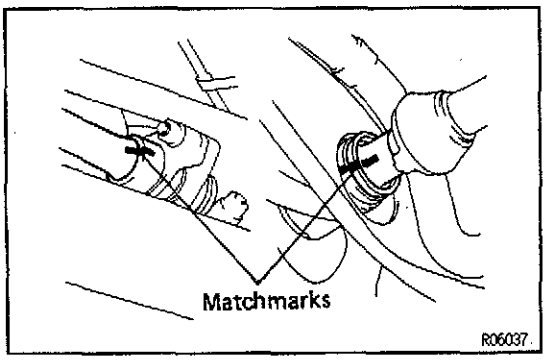


1. APPLY GREASE TO SPINE OF TORSION BAR SPRING

(a) Install the boot.

(b) Apply MP grease to the spline of the torsion bar spring.

SA



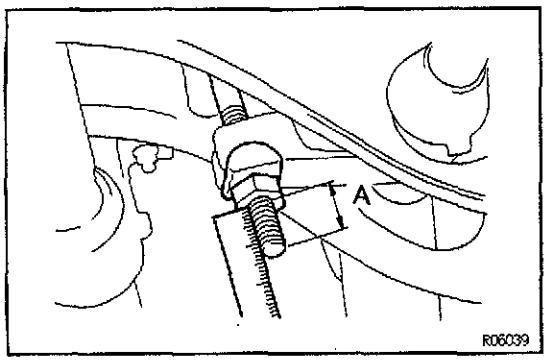
2. INSTALL TORSION BAR SPRING AND ADJUST VEHICLE HEIGHT

If Reusing Torsion Bar Spring

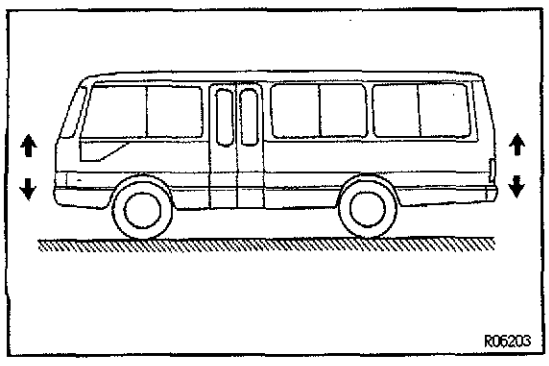
(a) Align the matchmarks and install the torsion bar spring to the torque arm.

(b) Align the matchmarks and install the anchor arm to the torsion bar spring.

(c) Install the boot to the anchor arm.

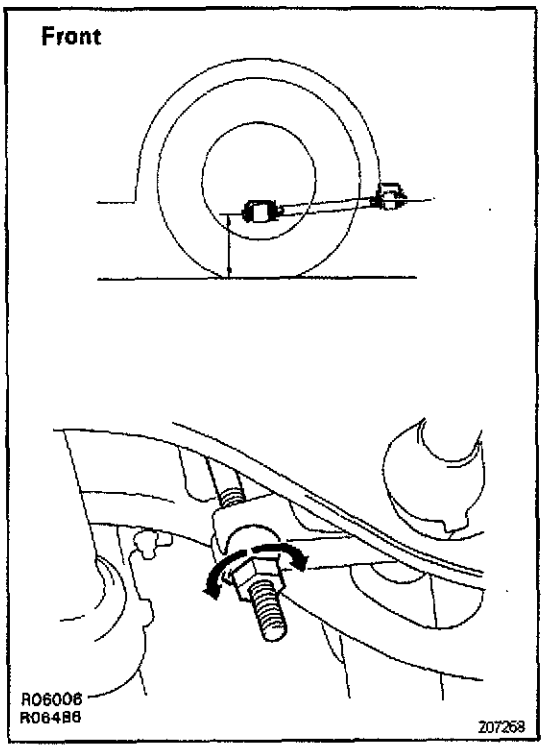


(d) Tighten the adjusting nut so that the bolt protrusion "A" is equal to that before removal.



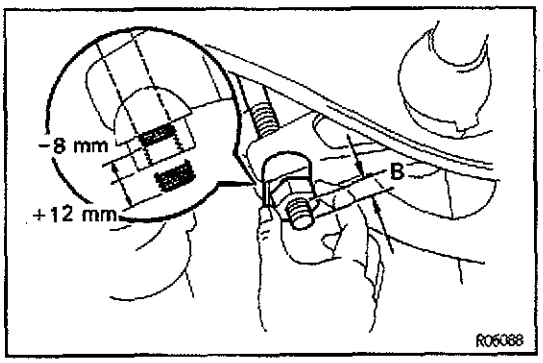
(e) Install the front wheel and lower the vehicle.
Torque: 515 N·m (5,250 kgf·cm, 380 ft·lbf)

(f) Bounce the vehicle up and down several times to allow the suspention to settle.



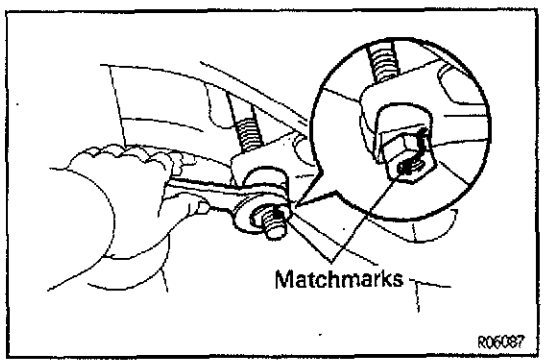
(g) Adjust the vehicle height by turning the adjusting nut.
Vehicle height:

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

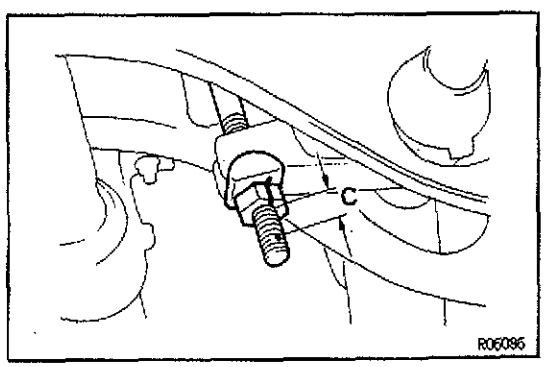


If Using a New Torsion Bar Spring

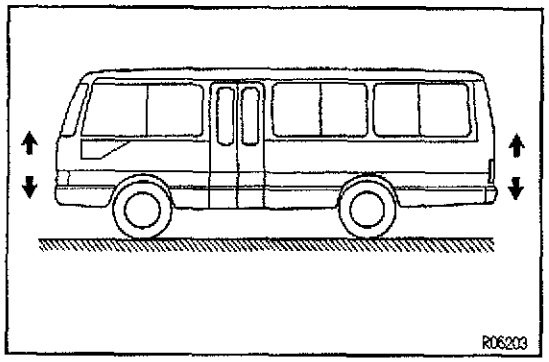
(a) Install the torsion bar spring to the torque arm.
(b) Install the anchor arm to the torsion bar spring.
(c) Connect the adjusting bolt to the anchor arm with the adjusting seat and nut.
(d) Tighten the adjusting nut by hand until there is no play in the ancher arm adjuster seat.
(e) Measure the protruding bolt end "B".
Bolt protrusion "B":
−8 ~ +12 mm (−0.32 ~ +0.48 in.)
If the bolt protrusion "B" is not to specification, reinstall the anchor arm to the torsion bar spring.



(f) Place matchmarks on the adjusting seat, bolt and nut. If the bolt protrusion "B" is – values, as shown in the illustration of balloon.
(g) Tighten the adjusting nut so that nut revolution "C" is as detailed below.
Nut revolutions "C":

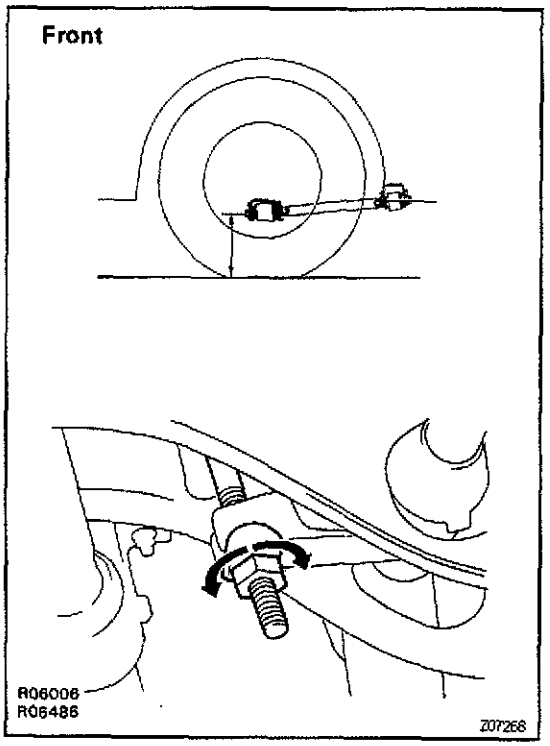


For Hong Kong For Australia (Long body)	23 turns
Others (Short body besides Tire size 7.00R16)	21 turns
Others	18 turns



(h) Install the front wheel and lower the vehicle.
Torque: 515 N·m (5,250 kgf·cm, 380 ft·lbf)

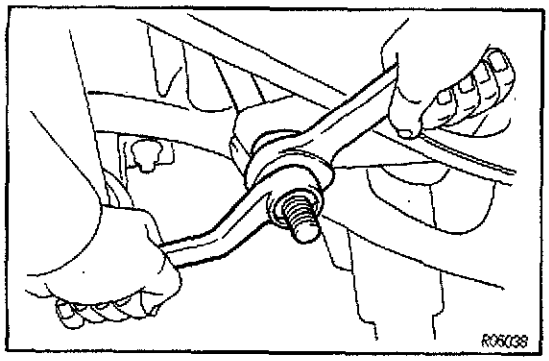
(i) Bounce the vehicle up and down several times to allow the suspension to settle.



(j) Adjust the vehicle height by turning the adjusting nut.
Vehicle height:

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

SA



3. INSTALL LOCK NUT
Torque: 100 N·m (1,000 kgf·cm, 74 ft·lbf)