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# DAIHATSU

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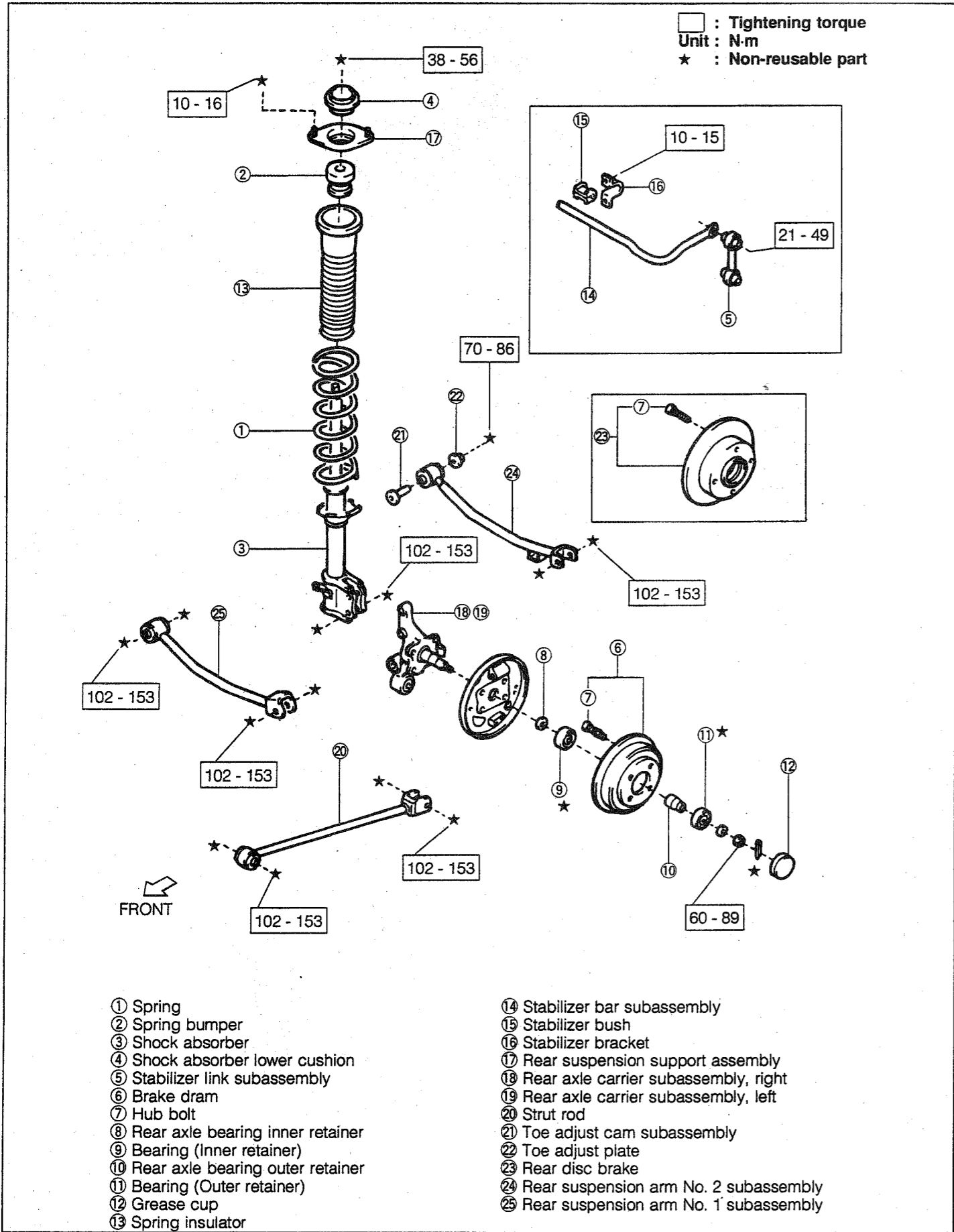
# G202

## REAR AXLE & SUSPENSION

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G2RS00001-00000

COMPONENTS



G2RS0002-0001

WHEEL ALIGNMENT

PREPARATION

Prior checks

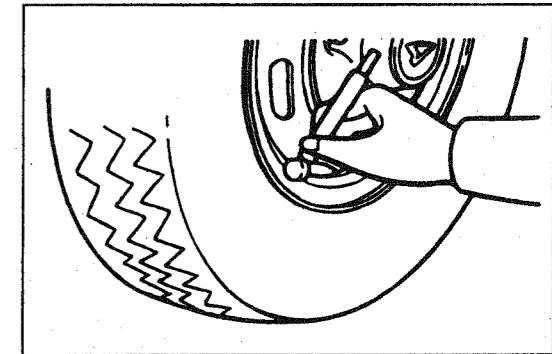
1. Inspect the wear of the tires.
2. Inspect the air pressure of the tires.

NOTE:

- Perform the check on a level floor.
- Make sure that the wheels are same maker's tire and size.
- Keep the vehicle in an unloaded state. An unloaded state are full fuel tank, installed the spare tire, installed the standard tools and jack at correct storage locations.

Tire size	kPa (kgf/cm <sup>2</sup> , psi)	
	Front	Rear
145/80R13 74S	180 (1.8, 26)	180 (1.8, 26)
155/80R13 78S 6.15-13-4PR	200 (2.0, 29) *	200 (2.0, 29) *
	180 (1.8, 26)	180 (1.8, 26)

\* For Australian

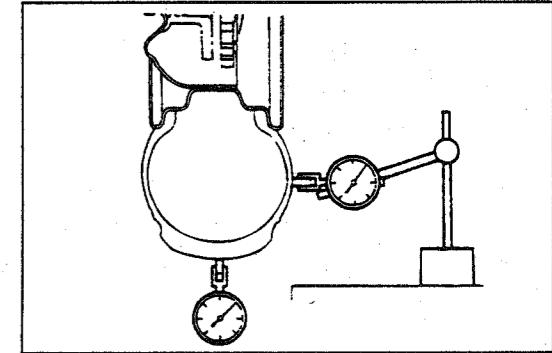


G2RS0003-00002

3. Inspect the run-out of the tires.  
Maximum Limit: 2 mm for Right-and-Left  
1.4 mm for Up-and-Down

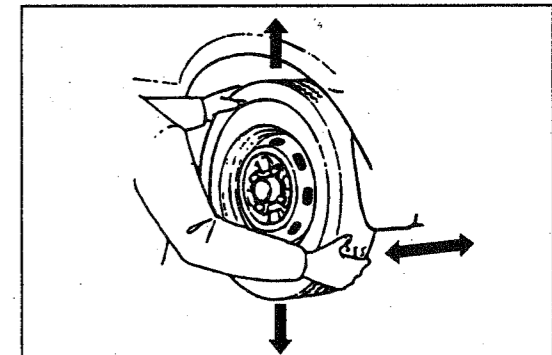
NOTE:

- The measurement should be conducted within five minutes after the vehicle has been run at least 30 minutes at a speed of 60 to 80 km/h.



G2RS0004-00003

4. Check of bolts of related sections for tightened condition
5. Check of related sections for excessive amount of play  
(1) Jack up the vehicle. Alternately push and pull the upper and lower parts of each tire. Ensure that the tire exhibits no excessive play.  
(2) If the tire exhibits an excessive amount of play, perform the following check while the brake pedal is being depressed.

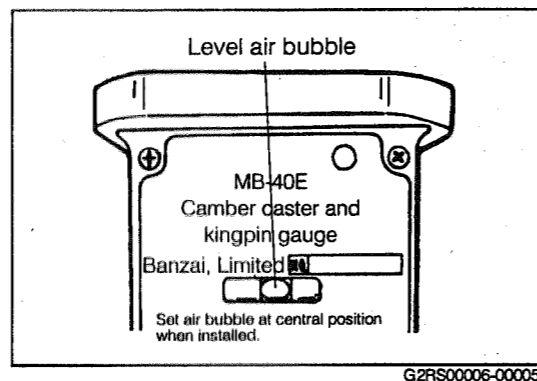


G2RS0005-00004

**CAMBER**

**Inspection**

- (1) Set the front wheels to their straight-ahead conditions.
  - (2) Align the level air bubble with the central position.
  - (3) Take the camber reading of the gauge. (Refer to page FS-5)
- Specified Value:  $-40' \pm 35'$



G2RS0006-0005

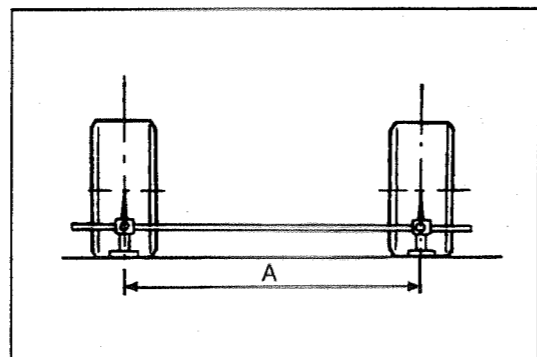
**TOE-IN**

**Inspection**

1. Rock the vehicle so that the vehicle height may stabilize.
2. Move the vehicle forward about five meters so that the front wheels may become in their straight-ahead conditions.

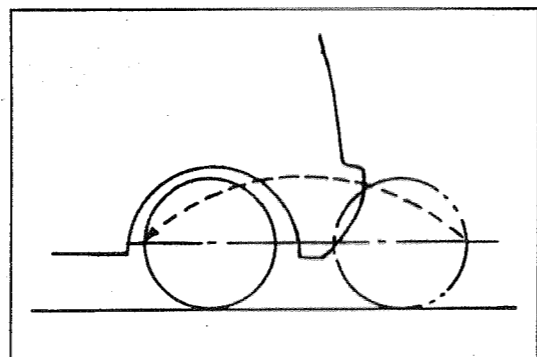
**NOTE:**

- Do not move the vehicle backward during the measurement.



G2RS0007-0006

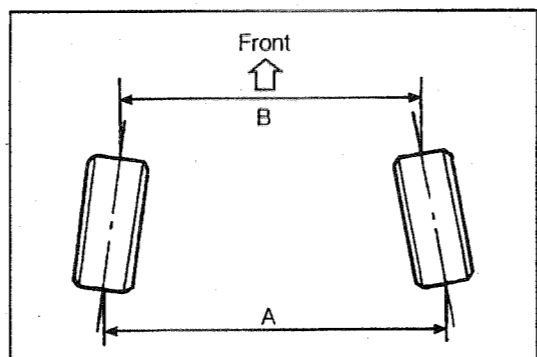
3. Align the height of the toe-in gauge pointers with the center height of the front wheels.
4. Put a mark on the tread center of each front wheel tire at the rear side. Measure the distance between the two marks (Dimension A) in the illustration.
5. Slowly move the vehicle forward by pushing the vehicle, until the wheels turn 180 degrees.



G2RS0008-0007

6. Measure the distance (Dimension B) between the two marks which were put in the preceding step. This measurement is performed at the front side of the vehicle. Calculate the amount of toe-in, i.e. (Dimension A - Dimension B)

Specified Value:  $5_{-1}^{+3}$  mm



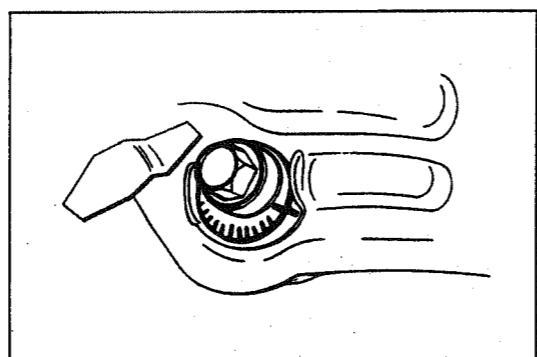
G2RS0009-0008

**Adjustment**

1. Slacken the set bolt of the toe adjusting cam.
2. Insert a hexagon wrench key into the hexagonal hole provided at the back side of the toe adjusting cam. Turn the hexagon wrench key.

**REFERENCE:**

- When each of the adjusting cams provided at both sides is turned by one graduation, the toe-in will change approximately 2.5 mm at one side.



G2RS0010-0009

**REAR AXLE**

**INSPECTION**

**1. Inspection of following parts**

- |                  |       |                  |
|------------------|-------|------------------|
| ① Brake drum     | ..... | Damage or wear   |
| ② Bearing, inner | ..... | Wear             |
| ③ Bearing, outer | ..... | Wear             |
| ④ Cap            | ..... | Damage           |
| ⑤ Axle carrier   | ..... | Cracks or damage |
| ⑥ Brake disc     | ..... | Damage or wear   |

**2. Inspection of wheel bearing**

- (1) Jack up the vehicle.

**NOTE:**

- Be sure to support the vehicle securely with safety stands.

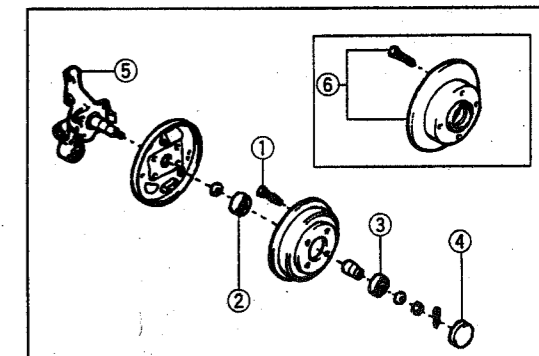
- (2) Remove the rear wheel.
- (3) Perform the axial tolerance measurement at a point of the hub edge with a dial gauge.
- (4) If the tolerance exceeds the allowable limit, replace the wheel bearing.

Axial Tolerance Limit: 0.35 mm

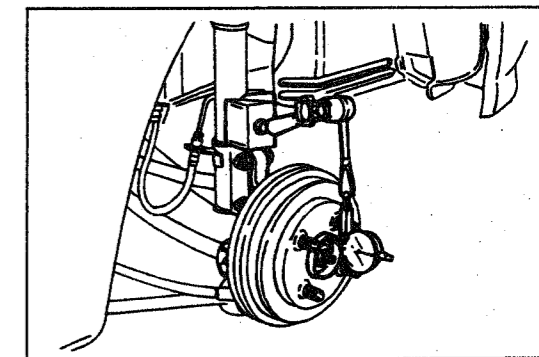
**REMOVAL**

**1. Removal of brake drum**

- (1) Remove the grease cap.
- (2) Remove the cotter pin, castle nut and plate washer.



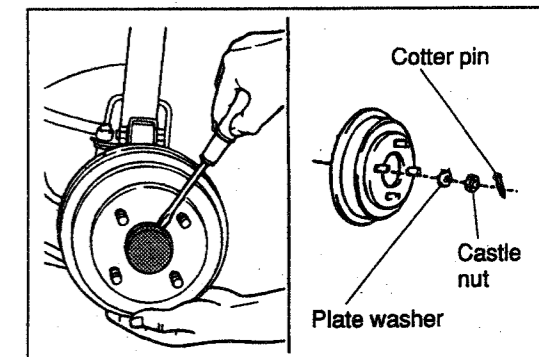
G2RS0011-00010



G2RS0012-00011

**2. Removal of brake drum**

- (1) Remove the grease cap.
- (2) Remove the cotter pin, castle nut and plate washer.

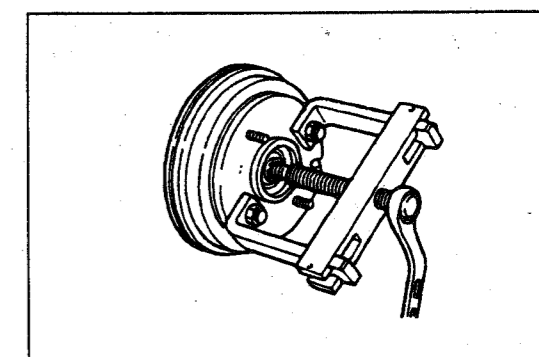


G2RS0013-00012

- (3) Remove the brake disc (or brake drum) from the rear axle hub.
- (4) Remove the bearing inner retainer from the rear axle hub.

**NOTE:**

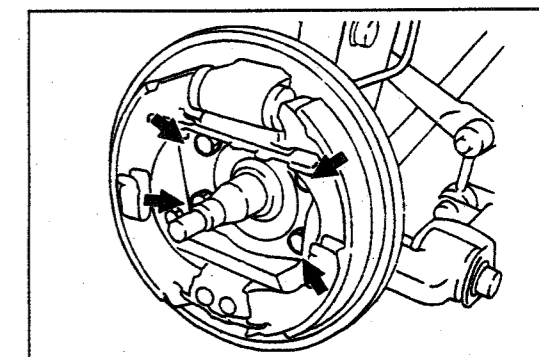
- If the brake drum can not be removed readily by hand, use following SST.  
SST: 09510-87301-000



G2RS0014-00013

**2. Removal of rear axle carrier**

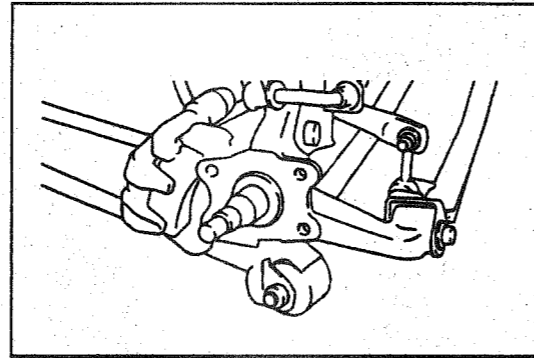
- (1) Disconnect the brake tube from the backing plate.
- (2) Remove the backing plate from the axle carrier by removing the four attaching bolts.



G2RS0015-00014

**3. Separation of rear axle carrier**

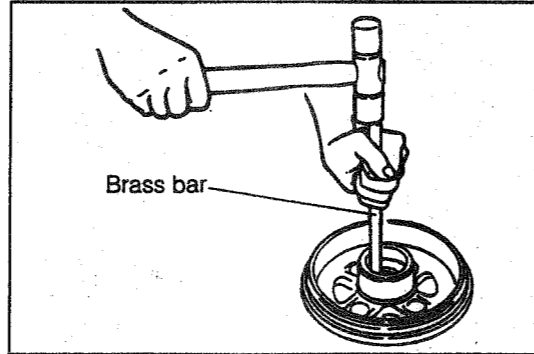
- (1) Remove the attaching bolts and nuts of the shock absorber lower bracket.
- (2) Remove the attaching bolt and nut of the suspension arm No. 1 and No. 2.
- (3) Remove the attaching bolt and nut of the strut rod.
- (4) Remove the axle carrier.



G2RS00016-00015

**4. Replacement of wheel bearing**

- (1) Remove the outer bearing, with a suitable brass bar.
- (2) Remove the bearing outer retainer.
- (3) Remove the inner bearing, with a suitable brass bar.

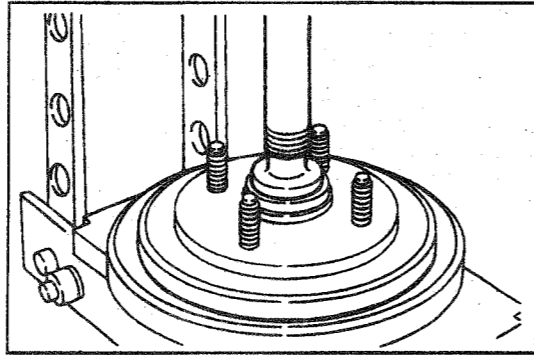


G2RS00017-00016

- (4) Press the new outer bearing into the brake drum/disc, using the SST.

SSTs: 09608-00080-000

(Use the 09608-12010-000 that is part of the set.)



G2RS00018-00017

**NOTE:**

- Make sure that the bearing is press-fitted positively until the bearing closely contacts with the bottom.

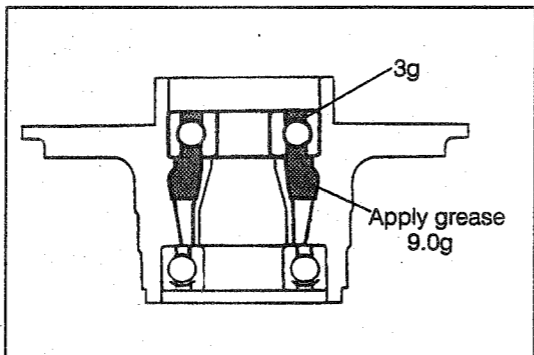
- (5) Apply grease as illustration.

- (6) Insert the bearing outer retainer to the axle carrier.

- (7) Press the new inner bearing, using the following SSTs.

SSTs: 09608-00030-000

(Use the 09608-12010-000 that is part of the set.)



G2RS00019-00018

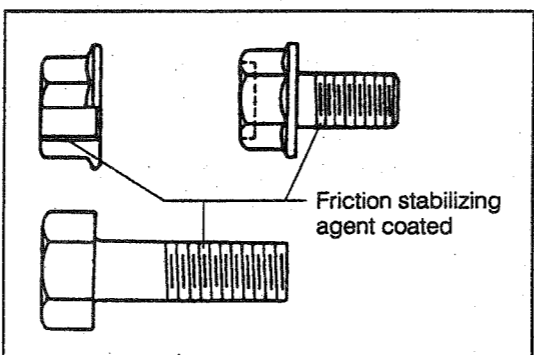
**INSTALLATION**

**1. Installation of rear axle carrier**

- (1) Mount the axle carrier on the shock absorber lower bracket.
- (2) Insert with the new bolts.

**NOTE:**

- For those suspension-related bolts and nuts on which a friction stabilizing agent has been coated, be certain not to reuse them once they have been removed.



G2RS00020-00019

- (3) Mount the suspension arm No. 1 and No. 2 with the new bolt.

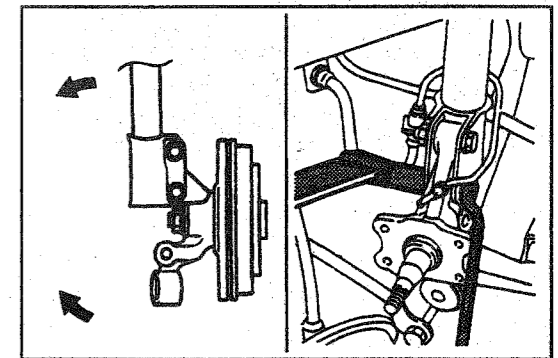
- (4) Tighten the shock absorber lower bracket with the new attaching nuts.

Tightening Torque: 102 - 153 N·m

(1040 - 1560 kgf-cm)

**NOTE:**

- With the knuckle pushed against the lower side, then tighten the bolts and nuts.



G2RS00021-00020

- (5) Tighten the suspension arm No. 1 and No. 2 with the new attaching nut.

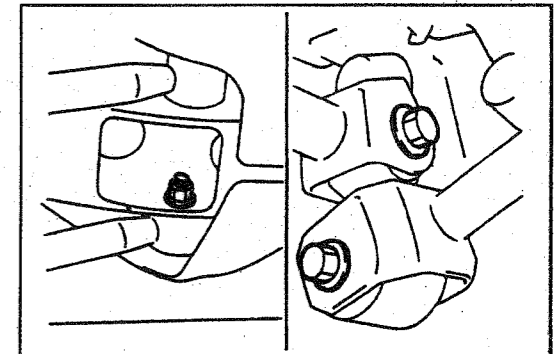
Tightening Torque: 102 - 153 N·m

(1040 - 1560 kgf-cm)

- (6) Mount the strut rod with the new attaching bolt and nut.

Tightening Torque: 102 - 153 N·m

(1040 - 1560 kgf-cm)



G2RS00022-00021

**2. Installation of backing plate**

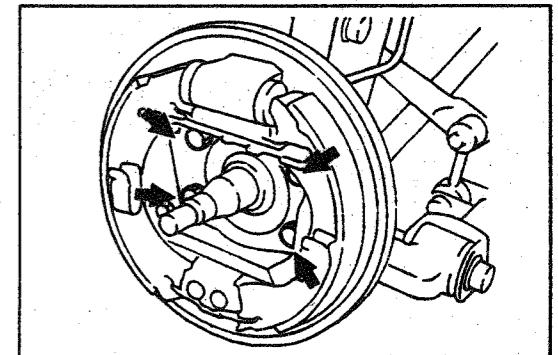
- (1) Install the backing plate.

- (2) Tighten the attaching bolts.

Tightening Torque: 44 - 58 N·m (450 - 600 kgf-cm)

- (3) Tighten the brake tube to the wheel cylinder.

Tightening Torque: 13 - 17 N·m (130 - 180 kgf-cm)



G2RS00023-00014

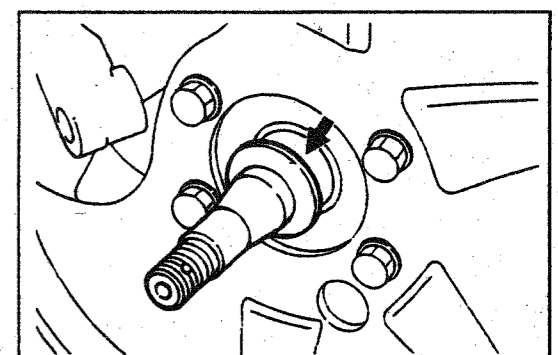
**3. Installation of brake drum**

- (1) Install the bearing inner retainer into the axle shaft.

**NOTE:**

- Be sure to install the inner retainer in the correct direction.

- (2) Install the brake disc (or drum) with bearing assembly into the axle shaft.



G2RS00024-00022

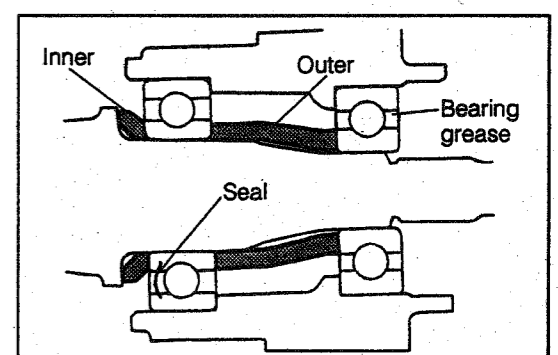
- (3) Install the plate washer into the axle shaft.

Tighten the castle nut.

Tightening Torque: 60 - 89 N·m (610 - 910 kgf-cm)

**NOTE:**

- When this nut is tightened to the specified torque, the specified preload of the front wheel is attained.

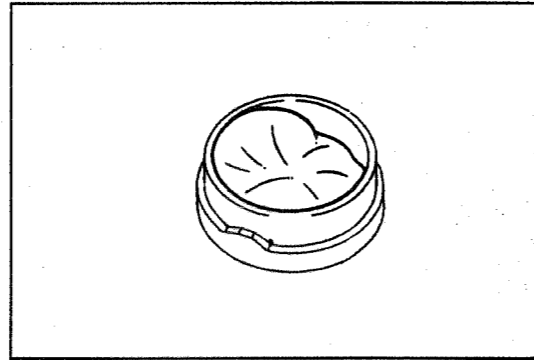


G2RS00025-00023

- (4) Install a new cotter pin.
- (5) Install the grease retainer cap.

**NOTE:**

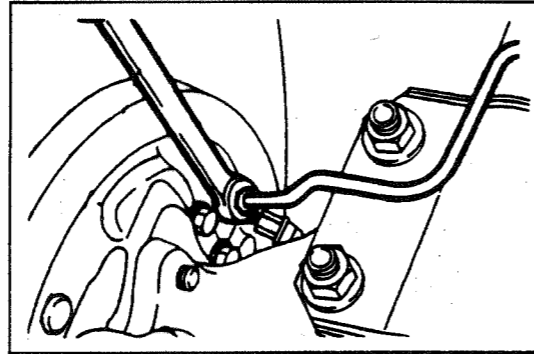
- Apply bearing grease about 15 grams to the cap before installing.



G2RS00026-00024

- (1) Connect the brake tube to the wheel brake cylinder.  
Tightening Torque: 13 - 17 N·m (133 - 184 kgf·cm)

- (2) Perform air bleeding for the brake system. (See page BR section.)
- (3) Perform the adjusting for the parking brake lever. (See page BR section.)



G2RS00027-00025

**4. Installation of the wheels**

- (1) Install the wheel.  
Tightening Torque: 89 - 118 N·m (900 - 1200 kgf·cm)

- (2) Lower the vehicle.

G2RS00028-00000

**SHOCK ABSORBER AND SPRING**

**INSPECTION**

**Inspection of following parts**

① Rear spring	Flattened condition
② Bumper	Deterioration
③ Cushion	Deterioration
④ Shock absorber	Noise or operation
⑤ Insulator	Deterioration
⑥ Suspension support	Deformation

**REMOVAL**

- (1) Jack up the vehicle.

**NOTE:**

- Be sure to support the vehicle securely with safety stands.

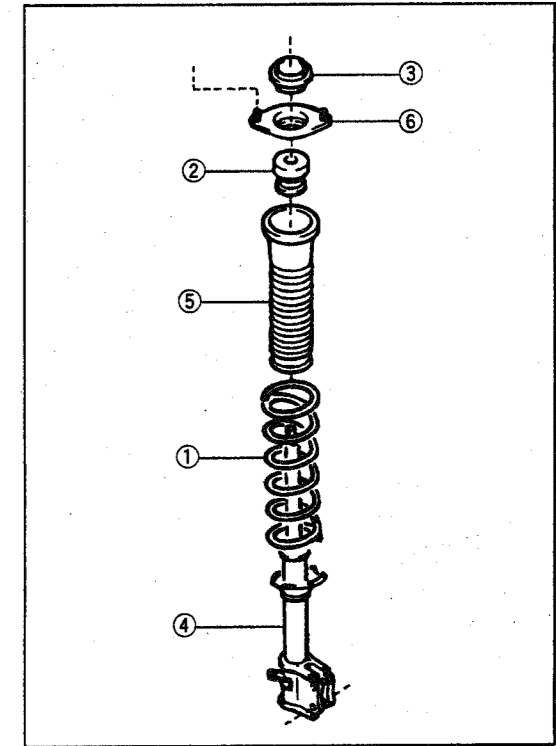
- (2) Remove the rear wheel.

- (3) Disengage the brake hose at the shock absorber bracket.

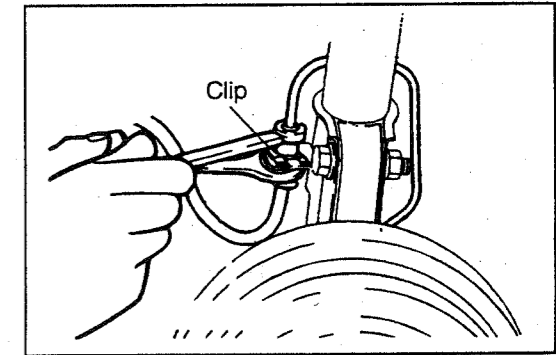
- (4) Remove the shock absorber lower bracket attaching nuts. Leave the bolts in their inserted conditions.

- (5) Remove the rear speaker trim, lower back trim, deck-side trim, rear seat belt retractor, rear seat back and other relational parts.  
(See page BO section.)

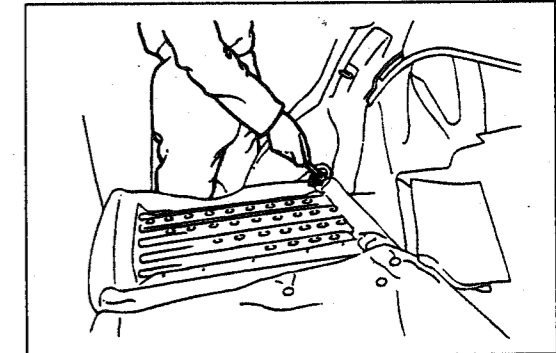
- (6) Remove the attaching nuts of the suspension support.
- (7) Remove the attaching bolts at the shock absorber lower bracket. Draw out the shock absorber with spring from the body.



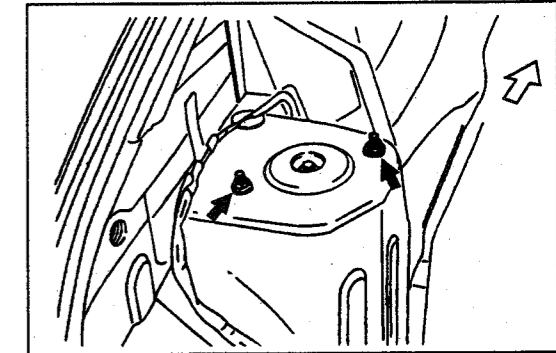
G2RS00029-00026



G2RS00030-00027



G2RS00031-00028



G2RS00032-00029

**1. Disassembly**

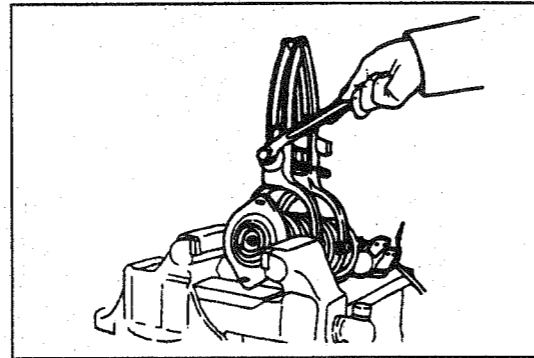
- (1) Clamp the suspension support in a vice.
- (2) Slacken the nut of the shock absorber piston shaft.

**WARNING:**

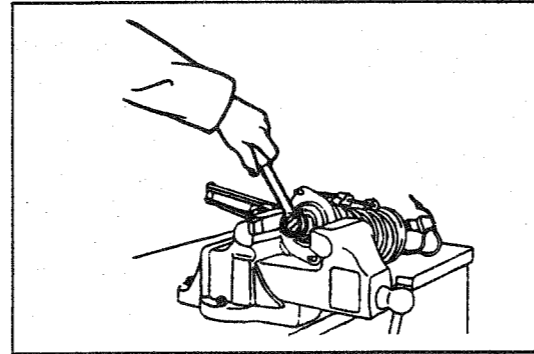
- Never remove the nut by applying impacts on it, using an impact wrench or the like.

- (3) Compress the coil spring, using the following SST.  
SST: 09727-87701-000 or  
09727-30020-000

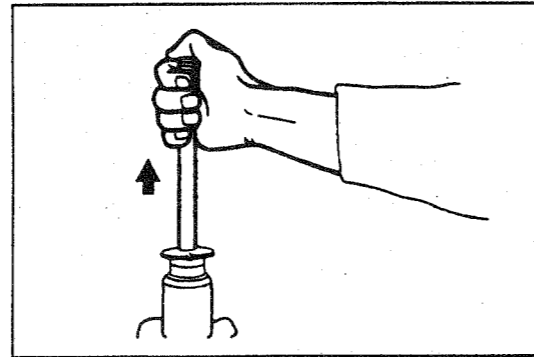
- (4) Loosen the nut.
- (5) Remove the suspension support and cushion.
- (6) Remove the insulator.
- (7) Remove the coil spring.
- (8) Remove the spring bumper.



G2RS00033-00030



G2RS00034-00031



G2RS00035-00032

**2. Inspection of shock absorber operation**

- (1) While pushing the piston rod, check that the pull through out the stroke is even, and there is no abnormal resistance or noise.
- (2) Push the piston rod in fully and release it. Check that it returns at a constant speed throughout.
- (3) If the absorber operations is defective, replace the absorber, as an assembly.

**CAUTION:**

- Release the gas completely, before discarding the shock absorber.

**3. Replacement**

- (1) Insert the spring bumper into the shock absorber piston rod.
- (2) Compress the coil spring, using the following SST.  
Install it to the shock absorber.  
SST: 09727-87701-000 or  
09727-30020-000

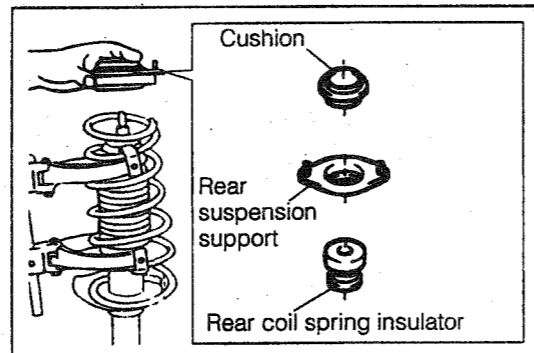
**NOTE:**

- A color point mark at the spring end shall be lower side.

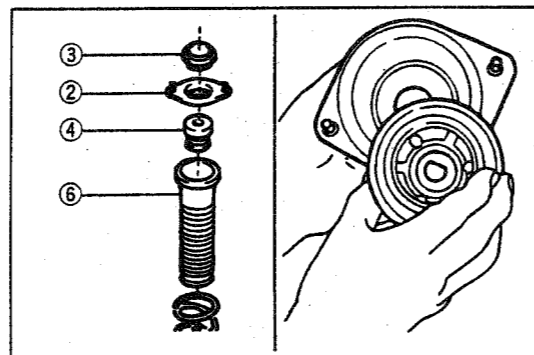
- (3) Install the coil spring insulator to the shock absorber piston rod.
- (4) Install the suspension support.
- (5) Install the cushion.

**NOTE:**

- Be sure to align the cut-out section of the cushion with that of the piston rod during the assembly.
- Be sure to align the attaching bolts of the suspension support with that of the shock absorber lower bracket as the illustration.



G2RS00036-00033



G2RS00037-00034

- (6) Temporarily tighten the piston rod end nut.
- (7) Align the coil spring end with the recessed sections of the upper and lower seats. Proceed to remove the SST.
- (8) Clamp the suspension support in a vice. Tighten the piston end nut, using a new nut.

Tightening Torque: 38 - 56 N·m (385 - 575 kgf·cm)

**INSTALLATION**

- (1) Temporarily install the suspension support on the body with new nuts.
- (2) Mount the axle carrier on the shock absorber lower bracket.
- (3) Install the new bolts and new nuts in place and tighten them.

Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)**NOTE:**

- With the axle carrier against the lower side, tighten the bolts and nuts.

- (4) Tighten the nuts of the suspension support.

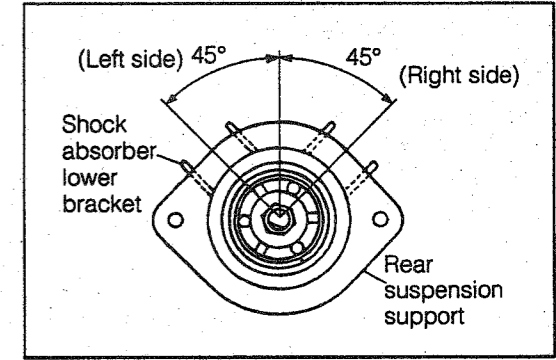
Tightening Torque: 29 - 42 N·m (290 - 430 kgf·cm)

- (5) Engage the brake hose.

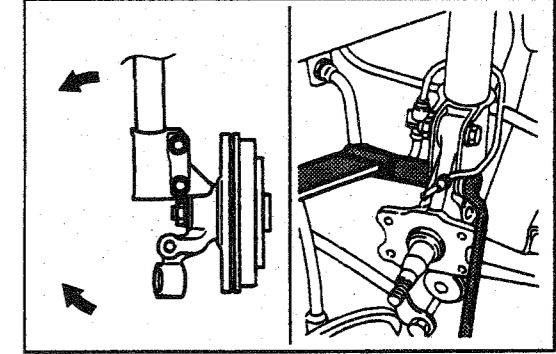
- (6) Install the trim, rear seat, rear seat belt retractor and other relational parts in the body.

(See page BO section.)

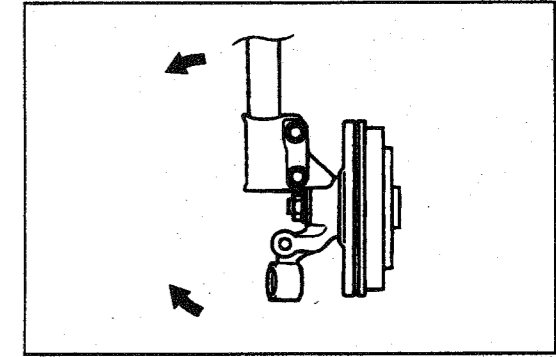
- (7) Install the wheels.



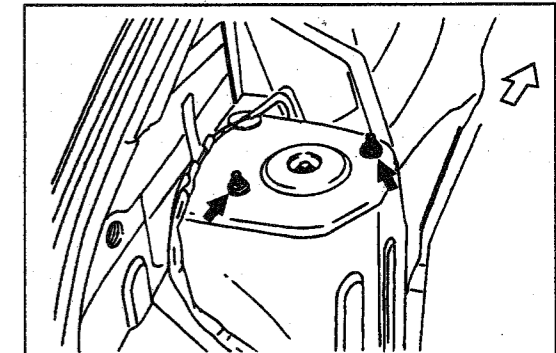
G2RS00038-00035



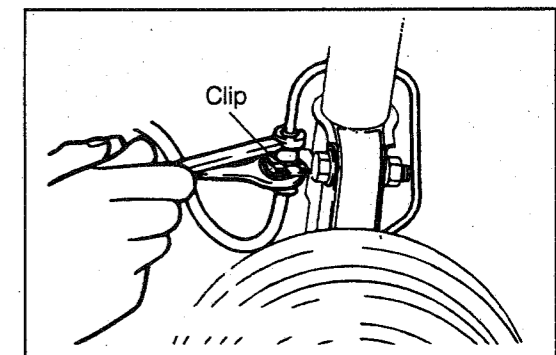
G2RS00039-00020



G2RS00040-00036



G2RS00041-00029



G2RS00042-00027

**REAR STABILIZER BAR**

**INSPECTION**

**Inspection of following parts**

- ① Stabilizer bar ..... Deformation or damage
- ② Stabilizer bush ..... Deterioration
- ③ Stabilizer bracket ..... Deformation or damage
- ④ Stabilizer link rod ..... Deformation or damage

**REMOVAL**

- (1) Jack up the vehicle.

**NOTE:**

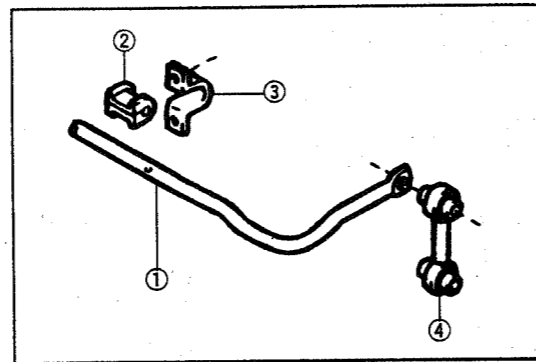
- Be sure to support the vehicle securely with safety stands.
- (2) Remove the stabilizer link lower bolt and nut. (Left side and Right side)
- (3) Remove the stabilizer bracket from the body by removing the attaching bolts.
- (4) Remove the stabilizer bar from the body.

**1. Disassembly**

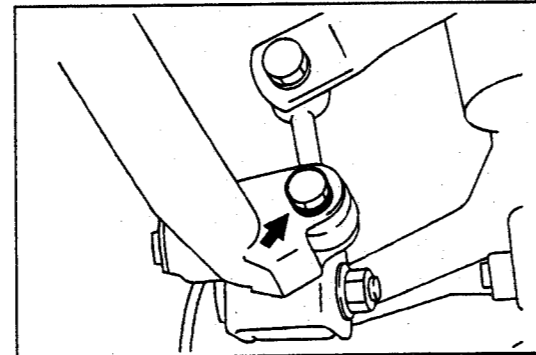
- (1) Remove the stabilizer link from the stabilizer bar by removing the attaching bolt and nut.
- (2) Remove the stabilizer bush from the stabilizer bar.

**2. Replacement**

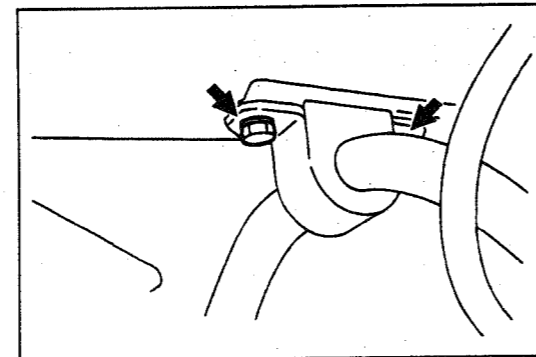
Assemble the stabilizer bush to the stabilizer bar at the color marked point.



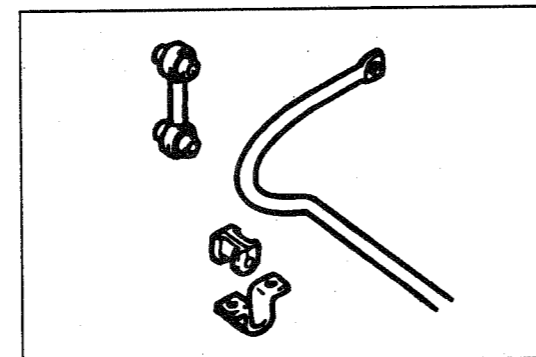
G2RS00043-00037



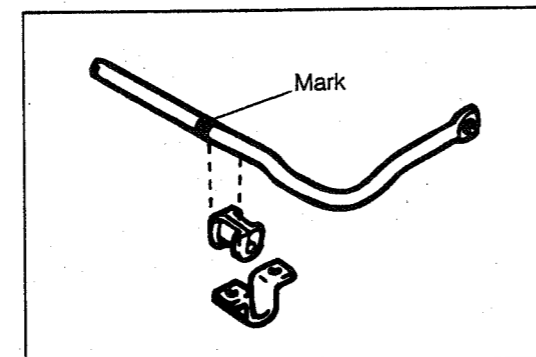
G2RS00044-00038



G2RS00045-00039



G2RS00046-00040



G2RS00047-00041

**INSTALLATION**

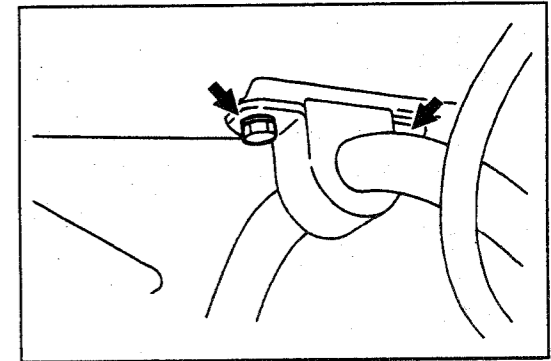
- (1) Install the stabilizer bar to the body by means of the stabilizer bracket and attaching bolts.
- (2) Tighten them, using a new nut.  
Tightening Torque: 10 - 15 N·m (100 - 160 kgf·cm)

**NOTE:**

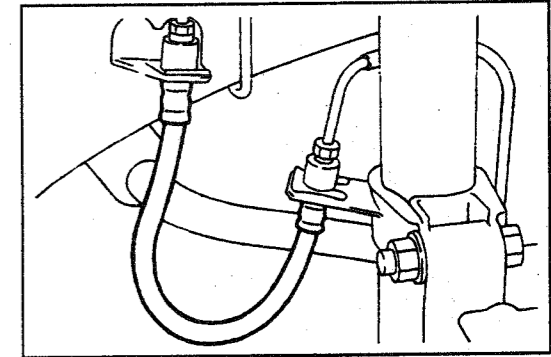
- Ensure that the gap between the brake hose and the stabilizer bar is the same at the right and left sides. (A gap of 10 mm or more should be provided between the hose and bar above.)

- (3) Attach the stabilizer link to the stabilizer bar end by means of the attaching bolt and nut.
- (4) Attach the stabilizer link to suspension arm.  
Tightening Torque: 21 - 49 N·m (215 - 505 kgf·cm)

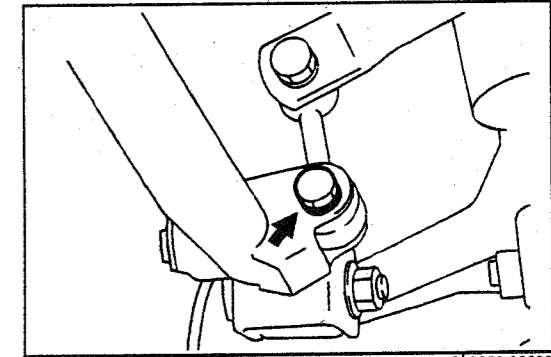
- (5) Lower the vehicle.  
Rock the front section of the vehicle in an up-and-down direction two or three times so as to settle the suspension.



G2RS00048-00039



G2RS00049-00042



G2RS00050-00038

G2RS00051-00000

**SUSPENSION LOWER ARM & STRUT ROD**

**INSPECTION**

**Inspection of following parts.**

- ① Strut rod ..... Damage or deformation
- ② Suspension arm No. 1 ..... Damage or deterioration
- ③ Suspension arm No. 2 ..... Damage or deterioration
- ④ Toe adjust cam ..... Damage
- ⑤ Toe adjust plate ..... Damage

**REMOVAL**

(1) Jack up the vehicle.

**NOTE:**

- Be sure to support the vehicle securely with safety stands.

(2) Remove the rear wheel.

(3) Disengage the rear stabilizer bar link.

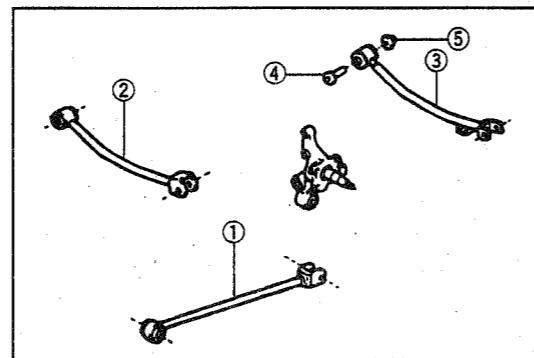
(4) Put a mate mark on the body and the toe adjusting cam.

(5) Separate the suspension arm No. 2 from the axle carrier by removing the attaching bolt.

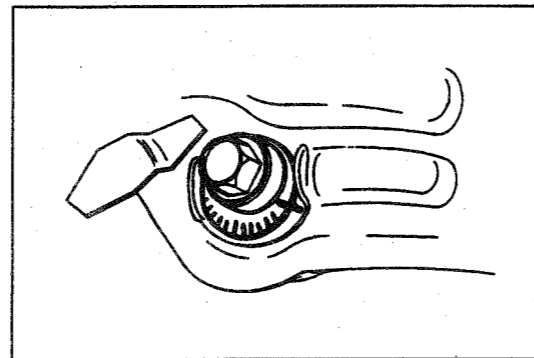
(7) Remove the attaching bolt of the suspension arm No. 2 and cam at body side. Then, remove the suspension arm No. 2 from the body.

(8) Separate the suspension arm No. 1 from the axle carrier by removing the attaching bolt.

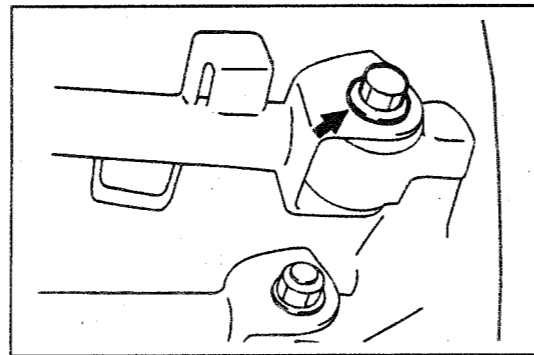
(9) Remove the suspension arm No. 1 by removing the attaching bolt from the body.



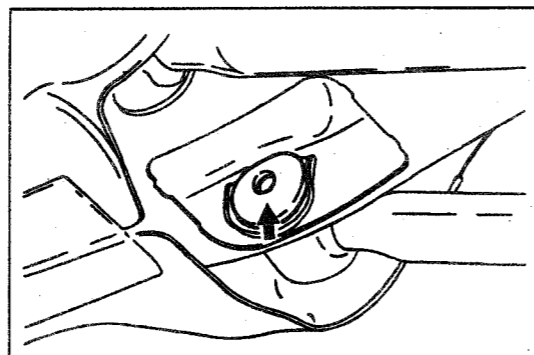
G2RS00052-00043



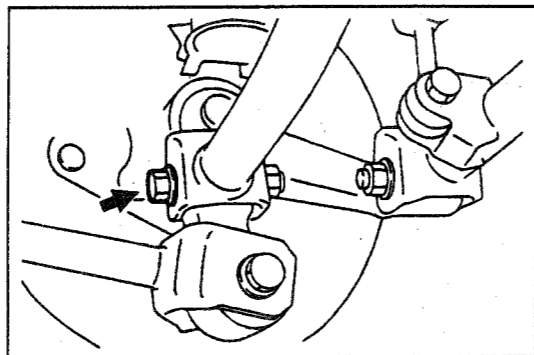
G2RS053-00009



G2RS00054-00044



G2RS00055-00045



G2RS00056-00046

- (10) Separate the strut rod from the axle carrier by removing the attaching bolt.
- (11) Remove the strut rod by removing the attaching bolt from the body.

**INSTALLATION**

**1. Installation of suspension arm No. 1**

(1) Install the suspension arm No. 1 to the body. Temporarily tighten with the new bolt and nut.

**NOTE:**

- The attaching bolts are special bolts on which a friction stabilizing agent has been coated.
- Hence, be certain not to reuse them.

(2) Engage the suspension arm No. 1 and axle carrier. Temporarily tighten with new bolt.

**2. Installation of suspension arm No. 2**

(1) Install the suspension arm No. 2 to the body. Temporarily tighten with the new bolt (Washer based bolt) and toe adjusting cam.

**NOTE:**

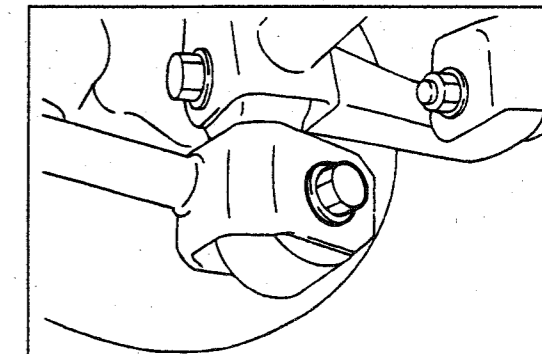
- Prior to secure tightening, align the mate marks on the toe adjusting cam and body with each other.

(2) Engage the suspension arm No. 2 and axle carrier. Temporarily tighten with new bolt.

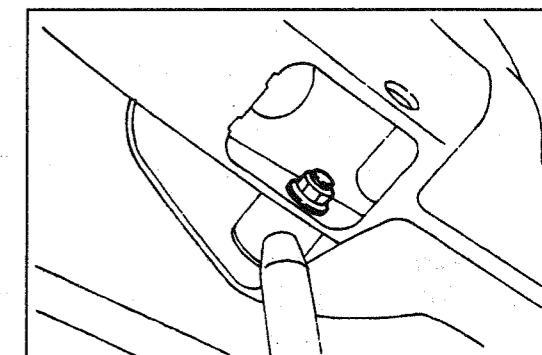
**3. Installation of strut rod**

(1) Install the strut rod to the body temporarily with the new bolt and new jam nut.

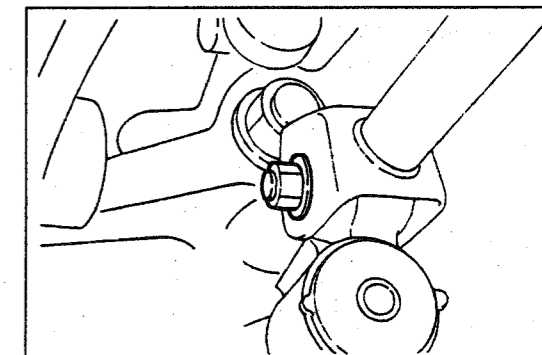
(2) Engage the strut rod and axle carrier. Temporarily tighten with new bolt and new jam nut.



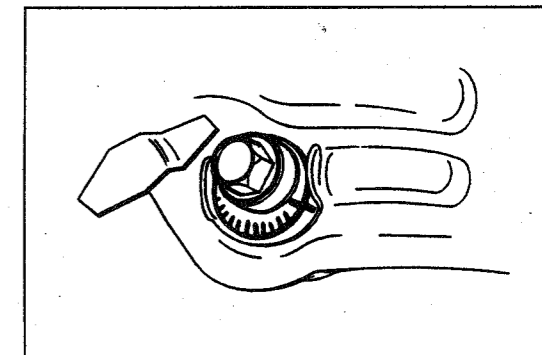
G2RS00057-00047



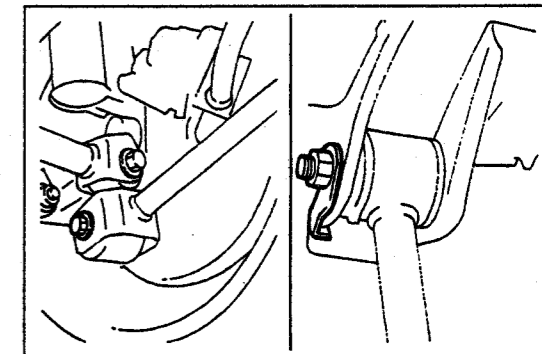
G2RS00058-00048



G2RS00059-00049



G2RS00060-00009

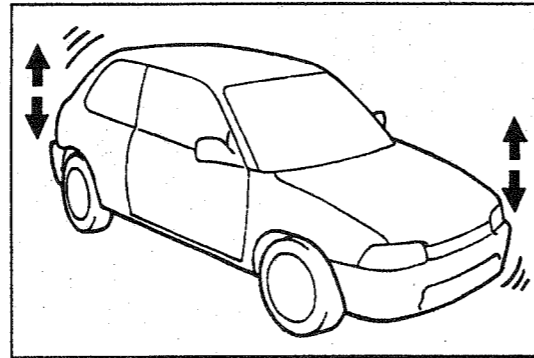


G2RS00061-00050



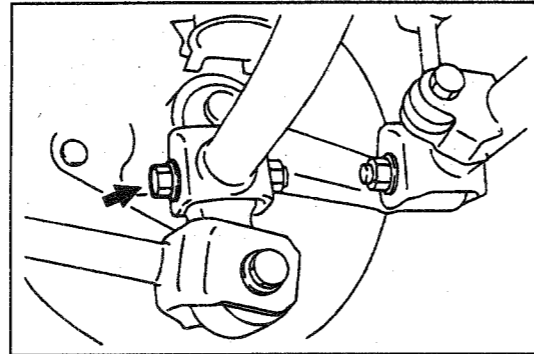
**4. Tightening of attaching bolt**

- (1) Install the wheels.
- (2) With the vehicle in an unloaded state, lower the vehicle. Rock the vehicle in an up-and-down direction a few times so as to settle the suspension.



G2RS00062-00051

- (3) With the vehicle weight applied to the suspension, tighten the attaching bolts and nuts.



G2RS00063-00046

**Suspension arm No. 1 and Body**

Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)

**Suspension arm No. 1 and axle carrier**

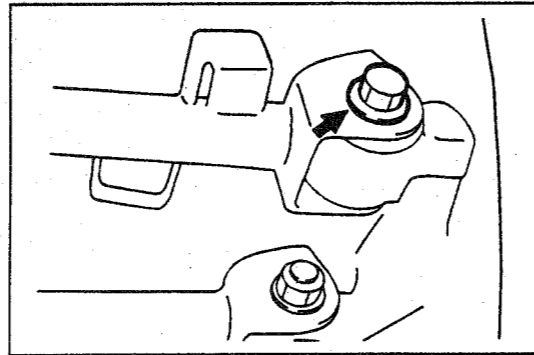
Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)

**Suspension arm No. 2 and Body**

Tightening Torque: 70 - 86 N·m (710 - 880 kgf·cm)

**Suspension arm No. 2 and axle carrier**

Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)



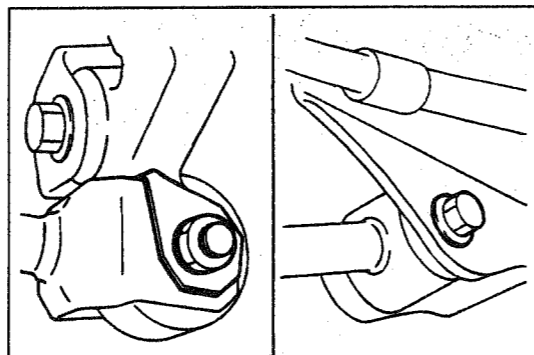
G2RS00064-00044

**Strut rod and Body**

Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)

**Strut rod and axle carrier**

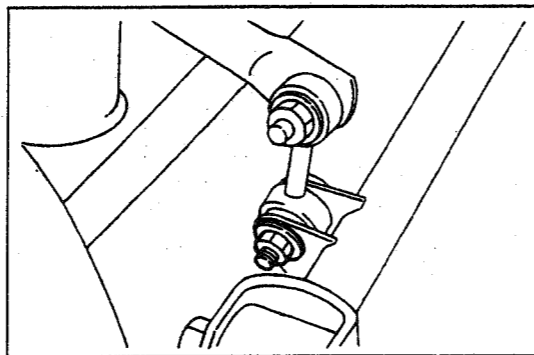
Tightening Torque: 102 - 153 N·m  
(1040 - 1560 kgf·cm)



G2RS00065-00052

**5. Installation of rear stabilizer**

- (1) Engage the stabilizer bar link and suspension No. 2.
- (2) Tighten the attaching bolt.  
Tightening Torque: 21 - 49 N·m (215 - 505 kgf·cm)



G2RS00066-00063

**6. Inspection of rear wheel alignment**

See page RS-3.

**SSTs**

Shape	Part No.	Part name
	09510-87301-000	Puller, Front hub & drum
	09608-00030-000	Tool set, Front hub & drive pinion bearing 09608-12010-000
	09608-00080-000	
	09727-87701-000	Compressor, Front coil spring (The alternative SST is 09727-30020-000)

G2RS00067-00054

## TIGHTENING TORQUE

Tightening components	Tightening torque		
	N·m	kgf·cm	ft·lb
Axle carrier × Shock absorber lower bracket	102 - 153	1040 - 1560	75.2 - 120
Brake disc cover × Axle carrier	44 - 58	450 - 600	32.5 - 43.4
Brake drum × Axle shaft nut (Bearing)	60 - 89	610 - 910	44.1 - 65.8
Brake hose bracket × Axle carrier	7 - 9	65 - 95	4.7 - 6.8
Brake tube × Wheel cylinder	13 - 17	133 - 184	9.5 - 13.4
Disc brake caliper × Rear axle carrier	44 - 58	450 - 600	32.5 - 43.4
Shock absorber piston end × Suspension support (Cushion)	29 - 42	290 - 430	21.0 - 31.1
Speed sensor bracket × axle carrier (Suspension arm. No. 2)	7 - 10	70 - 100	5.1 - 7.2
Stabilizer bar bracket × Body	10 - 15	100 - 160	7.2 - 11.6
Strut rod × Body	102 - 153	1040 - 1560	75.2 - 120
Strut rod × Axle carrier	102 - 153	1040 - 1560	75.2 - 120
Suspension arm No. 1 × Axle carrier	102 - 153	1040 - 1560	75.2 - 120
Suspension arm No. 1 × Body	102 - 153	1040 - 1560	75.2 - 120
Suspension arm No. 2 × Axle carrier	102 - 153	1040 - 1560	75.2 - 120
Suspension arm No. 2 × Body	70 - 86	710 - 880	51.4 - 63.7
Suspension support × Body	10 - 13	100 - 160	7.2 - 11.6
Wheel disc × Rear axle hub	89 - 118	900 - 1200	65.1 - 87.0

G2RS00068-00000

## SERVICE SPECIFICATIONS

		Specification
Wheel	Run-out of tire	2 mm for right-and-left. 1.4 mm for up-and-down
	Bearing looseness	Axial direction: Tolerance limit 0.35 mm
Wheel alignment	Camber angle	$-40' \pm 35'$
	Toe-in	5 mm $^{+3}_{-1}$ mm

G2RS00069-00000