

REAR AXLE & SUSPENSION

PRIOR CHECK	RS- 2
TYRE	RS- 2
AXLE BEARING	RS- 2
AXLE HUB	RS- 2
COMPONENTS	RS- 3
REAR SPRING	RS- 4
REMOVAL	RS- 4
INSPECTION	RS- 4
INSTALLATION	RS- 4
SHOCK ABSORBER	RS- 6
REMOVAL	RS- 6
INSPECTION	RS- 6
INSTALLATION	RS- 6
REAR AXLE	RS- 7
REMOVAL	RS- 7
DISASSEMBLY	RS- 7
INSPECTION	RS- 7
ASSEMBLY	RS- 8
INSTALLATION	RS- 8
SST	RS-10

MRS00001-00000

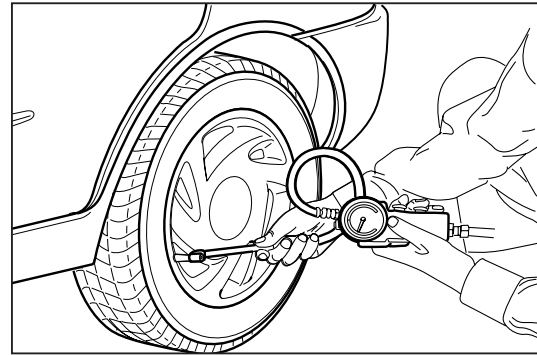
PRIOR CHECK

TYRE

1. Visually inspect the tyres for uneven wear.
2. Check the tyre air inflation pressure.

NOTE:

- For the tyre air inflation pressure, refer to the owner's manual.



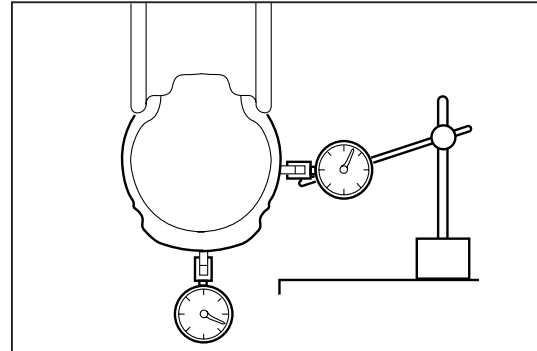
MRS00002-00001

3. Jack up the vehicle and place safety stands underneath the vehicle.
4. Measure the runout with a dial gauge applied to the tyre, as shown in the figure.

Specified Value:

Not to exceed 2 mm in a right-and-left direction

Not to exceed 1.4 mm in an up-and-down direction



MRS00003-00002

AXLE BEARING

1. Perform the following measurements with a dial gauge applied to the end surface and circumference surface of the axle hub as shown in the figure.

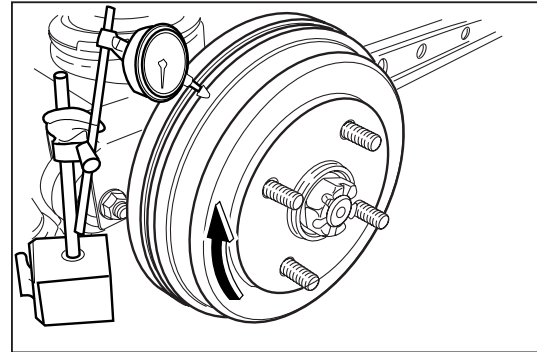
Specified Value:

Not to exceed 0.8 mm

(Move the axle hub in the axial direction by hands.)

Not to exceed 0.1 mm

(Move the axle hub in the up-and-down direction.)

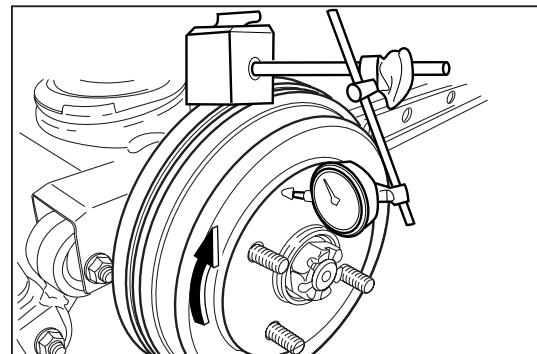


MRS00004-00003

AXLE HUB

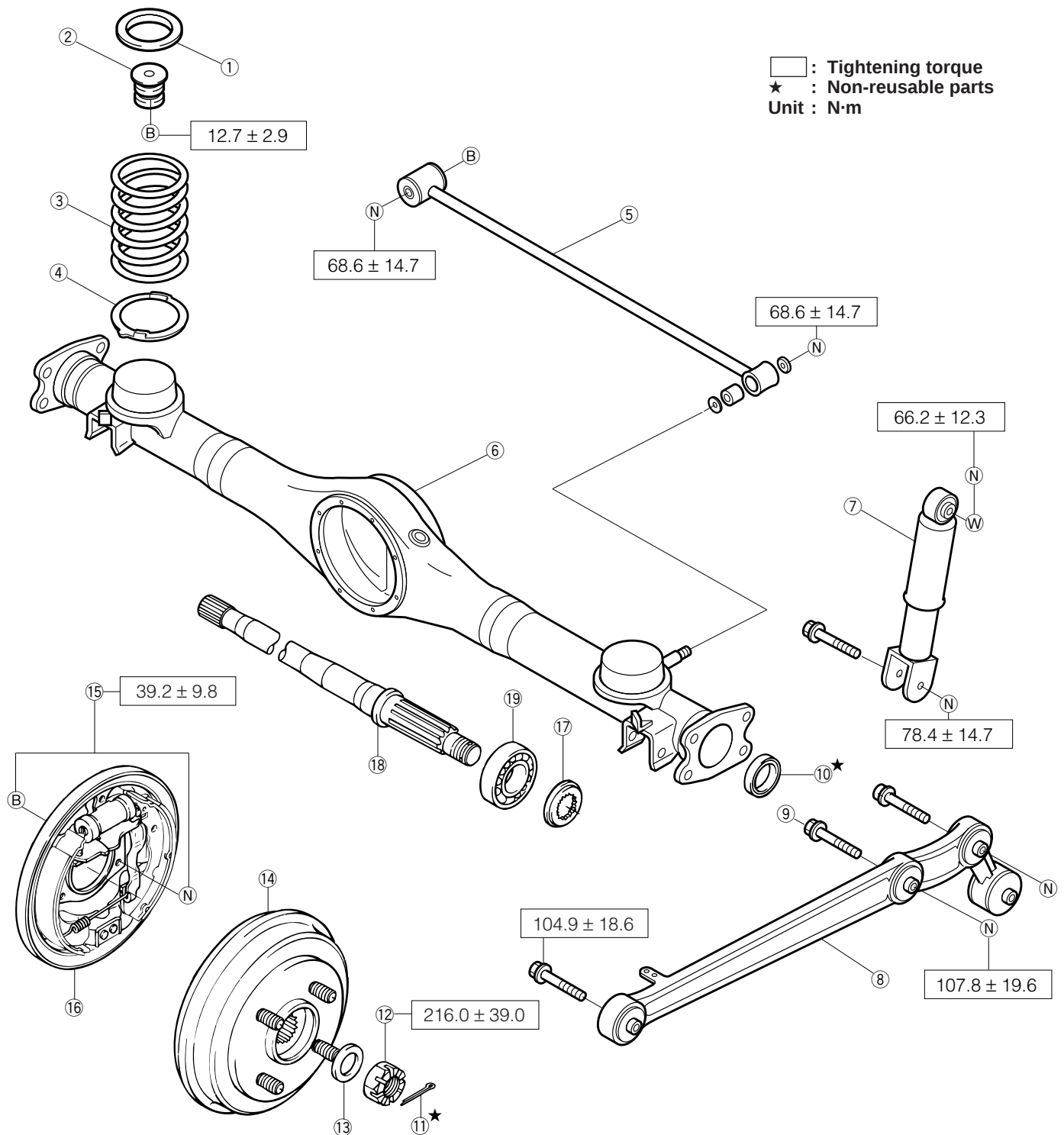
1. Measure the runout when the brake drum is turned one turn with a dial gauge applied to the end surface of the axle hub as shown in the figure.

Specified Value: Not to exceed 0.2 mm



MRS00005-00004

COMPONENTS



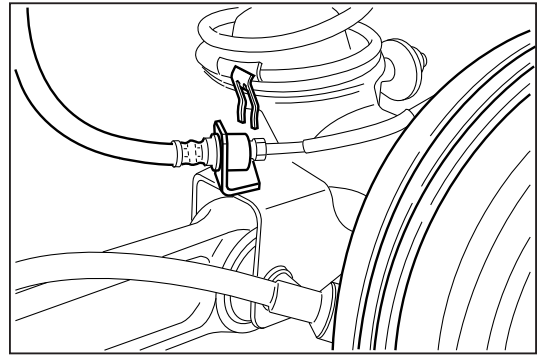
REAR SPRING

REMOVAL

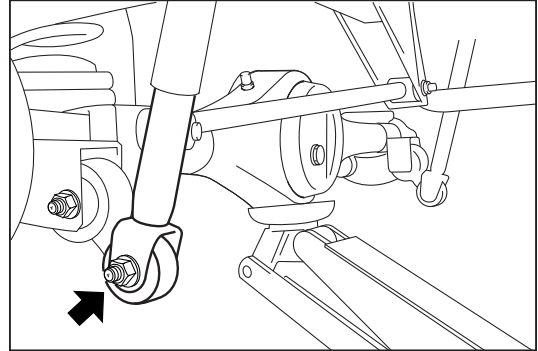
1. Jack up the vehicle and support it with safety stands.
2. Disconnect the rear brake hose.
3. Remove the bolt at the lower end of the shock absorber.

NOTE:

 - When the right and left shock absorbers are removed, the tension of the spring is applied to the rear axle housing. Therefore, be sure to apply a garage jack temporarily to underneath the rear axle housing so as to release the tension.
4. Gradually lower the garage jack and remove the rear spring, spring lower seat and spring upper seat.



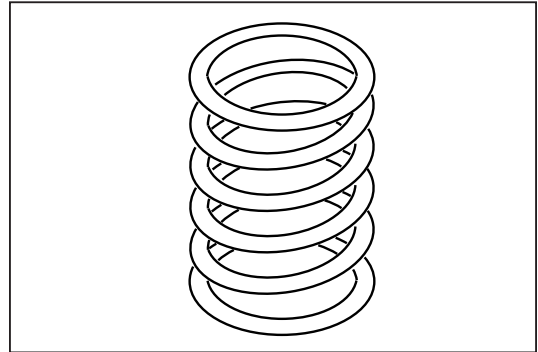
MRS00007-00006



MRS00008-00007

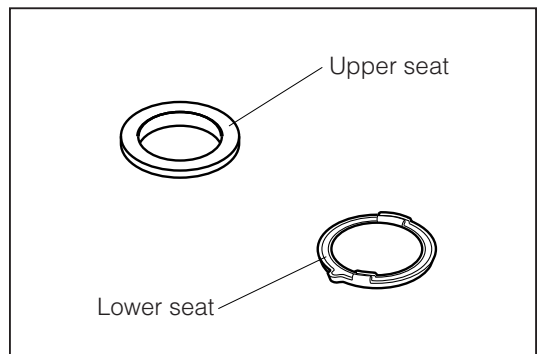
INSPECTION

1. Check the spring for damage, formation of rust, etc.
2. Replace the spring if any abnormality is found.



MRS00009-00008

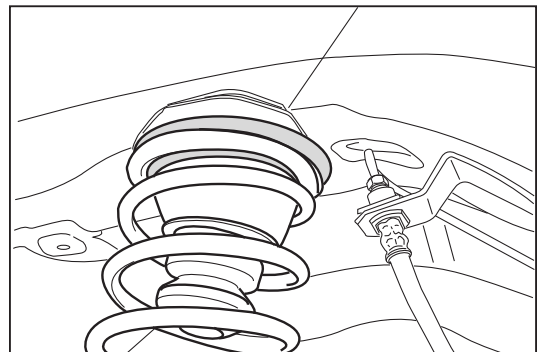
3. Wipe off any mud or dust.
4. Check to see if any damage is present.
5. Check to see if any wear and cracks are present.
6. Replace any parts which exhibit abnormality.



MRS00010-00009

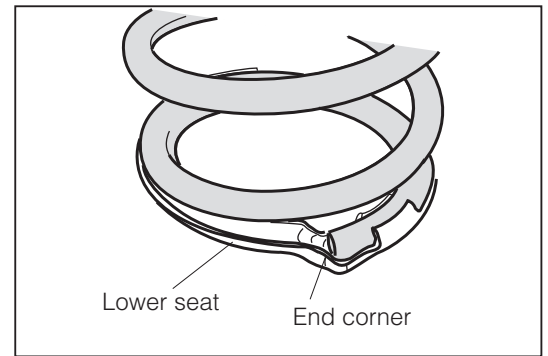
INSTALLATION

1. Install the spring upper seat to the vehicle.
2. Install the spring lower seat to the specified position of the rear axle housing.

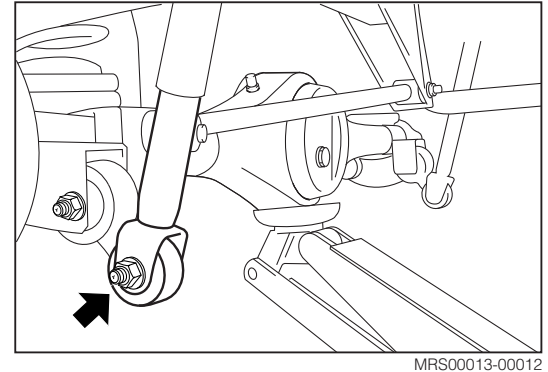


MRS00011-00010

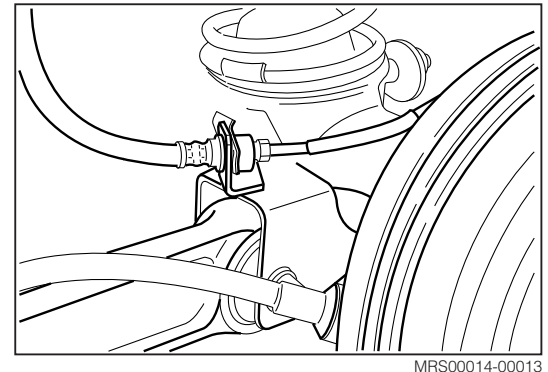
3. Place the spring on the lower seat in such a way that the end of the coil spring comes at the coil end section.



4. Raise the rear axle housing with a jack to compress the spring. Then, insert the bolt into the installation hole at the lower end of the shock absorber and tighten the nut.



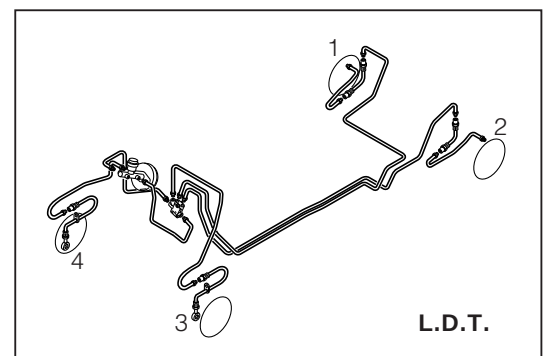
5. Connect the rear brake hose.



6. Perform the air bleeding for the brake hydraulic system.

NOTE:

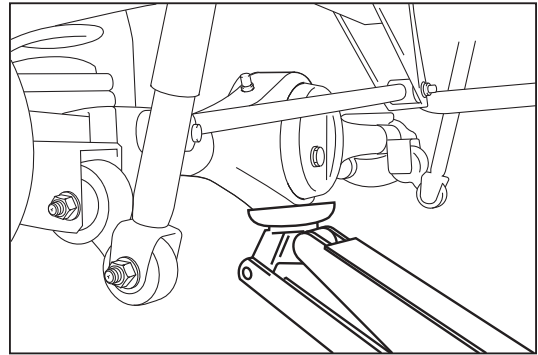
- Perform the air bleeding, starting from the wheel brake cylinder which is the farthest from the master cylinder. For details, refer to the BR section.



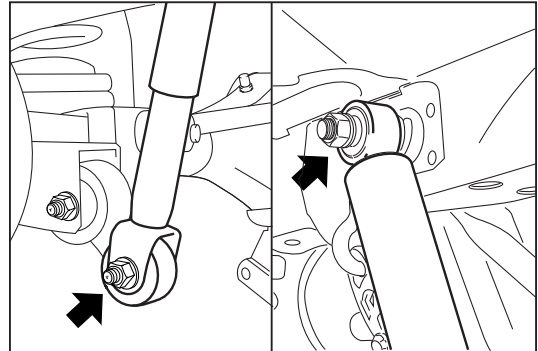
SHOCK ABSORBER

REMOVAL

1. Jack up the vehicle and support it with safety stands.
2. Raise the rear axle housing with a garage jack applied to underneath the rear axle housing so such an extent that the tension of the spring may not be applied to the shock absorber.
3. Remove the bolt at the lower end of the shock absorber.
4. Remove the bolt at the upper end of the shock absorber.



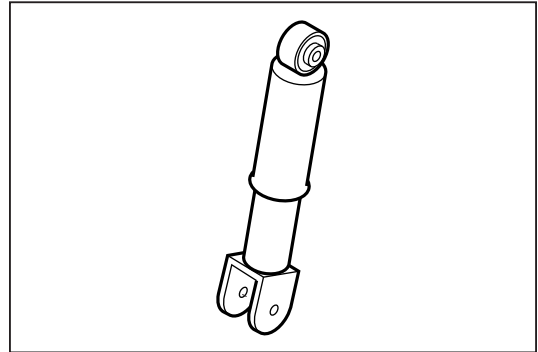
MRS00016-00015



MRS00017-00016

INSPECTION

1. Contract and extend the shock absorber. Ensure that the shock absorber moves smoothly.
2. Check the shock absorber for oil leakage.
3. Check the shock absorber for damage, formation of rust, etc.
4. Check the bushes for wear and cracks.
5. Replace the shock absorber if any abnormality is found.



MRS00018-00017

INSTALLATION

1. Reverse the removal procedure to install the shock absorber.

NOTE:

- After completion of the installation of the shock absorber, be sure to rock the vehicle in an up-and-down direction. Then, proceed to tighten the attaching bolts and nuts to the specified torque.

MRS00019-00000

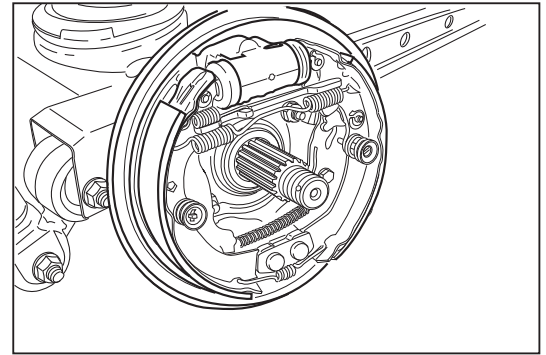
REAR AXLE

REMOVAL

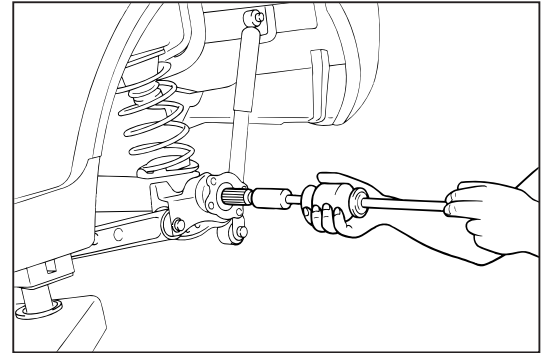
1. Jack up the vehicle and remove the rear wheel.
2. Drain the differential oil.
3. Remove the brake drum.
4. Disconnect the brake tube from the wheel cylinder.
5. Remove the backing plate from the rear axle housing.
6. Remove the rear axle shaft spacer.
7. Remove the rear axle shaft subassembly, using a sliding hammer.

NOTE:

- In cases where the threaded portion of the sliding hammer will not fit the threads of the rear axle shaft, temporarily install the brake drum to the rear axle shaft. Then, the sliding hammer can be installed, using the hub bolts.



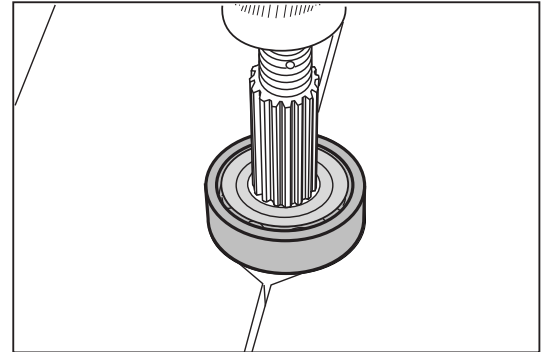
MRS00020-00018



MRS00021-00019

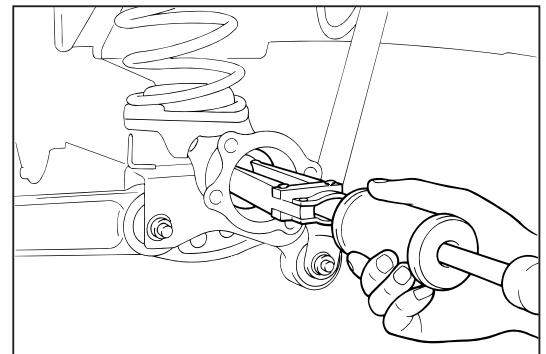
DISASSEMBLY

1. Remove the radial ball bearing, using a hydraulic press.



MRS00022-00020

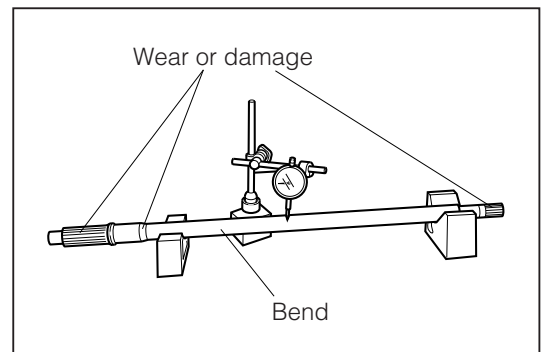
2. Remove the type T oil seal.



MRS00023-00021

INSPECTION

1. Check the rear axle shaft for twist, cracks and other damage.

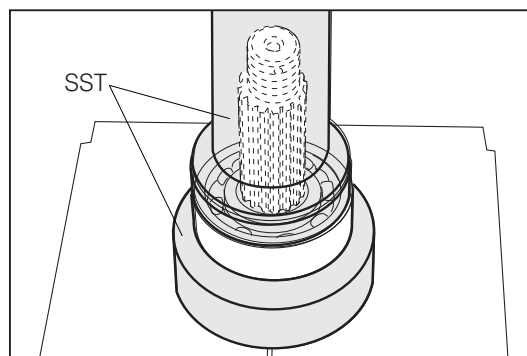


MRS00024-00022

ASSEMBLY

1. Press-fit the radial ball bearing into the rear axle shaft, using a hydraulic press in combination with the following SSTs.

SST: 09515-21010-000
09310-87301-000

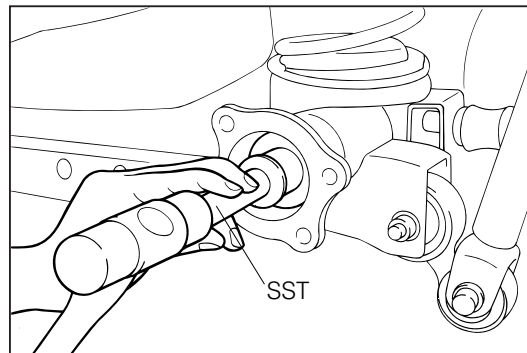


2. Apply Amix MP grease to the lip section of a new type T oil seal. Install the oil seal to the rear axle housing, using a hammer in combination with the following SST.

SST: 09517-12010-000

CAUTION:

- Make sure that the oil seal is inserted in the correct direction.
- Prior to the installation, be sure to completely wipe off the old grease.



INSTALLATION

1. Assemble the rear axle shaft subassembly to the axle housing, using a sliding hammer or the like.

CAUTION:

- Be very careful not to apply excessive force to the oil seal, etc. when the shaft is inserted.
- After the shaft has been inserted, make sure that the shaft turns lightly by turning it.

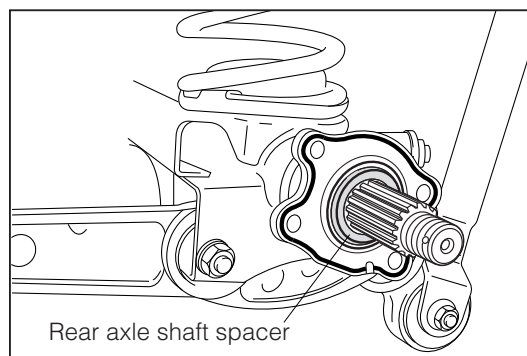
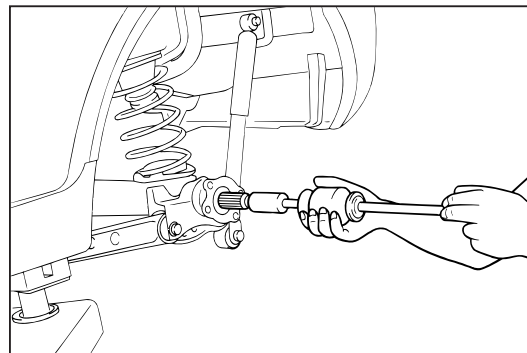
NOTE:

- Prior to the insertion of the rear axle shaft into the axle housing, be sure to remove the oil filling plug of the differential case so that air inside may be expelled.

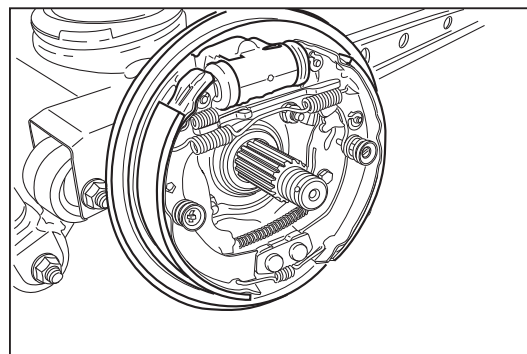
2. Assemble the rear axle shaft spacer to the rear axle shaft.
3. Completely wipe off the old bond remaining on the flange surface of the rear axle housing. Then, apply Three Bond 1212 and install the brake backing plate.

CAUTION:

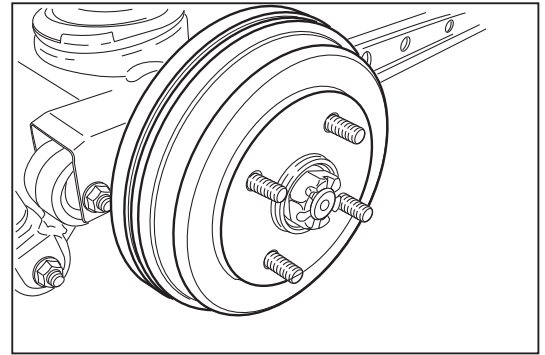
- Never apply any bond to the groove section.



4. Assemble the backing plate and rear axle housing flange and tighten the nuts to the specified torque.

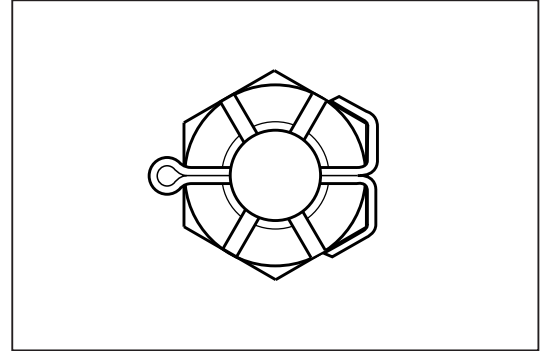


5. Assemble the rear brake drum and tighten the nut to the specified torque.



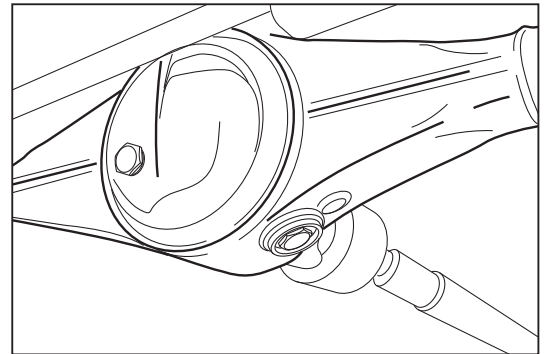
MRS00030-00028

6. Attach the cotter pin.



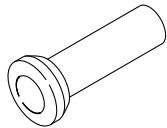
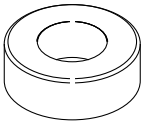
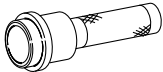
MRS00031-00029

7. Fill the specified amount of differential oil.



MRS00032-00030

SST

Shape	Part Number	Name
	09310-87301-000	Replacer, transmission bearing
	09515-21020-000	Replacer, rear axle shaft bearing
	09517-12010-000	Replacer, oil seal