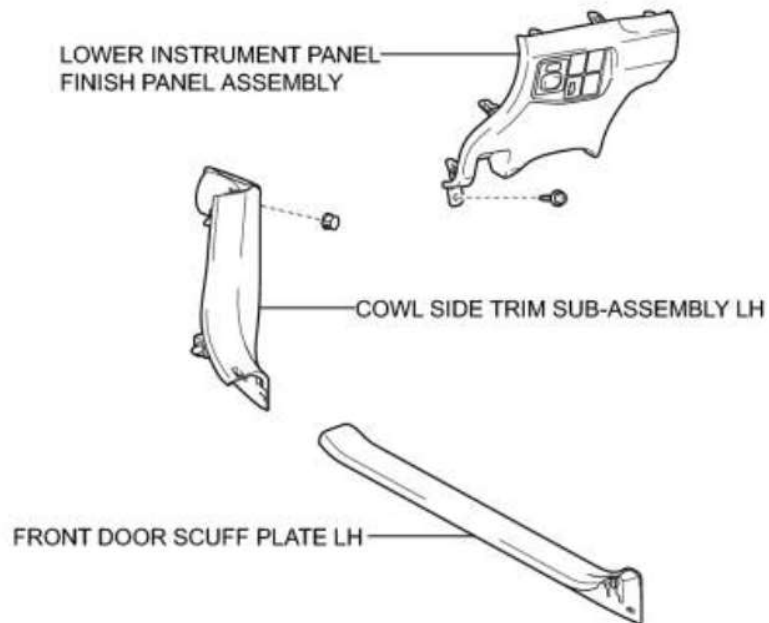


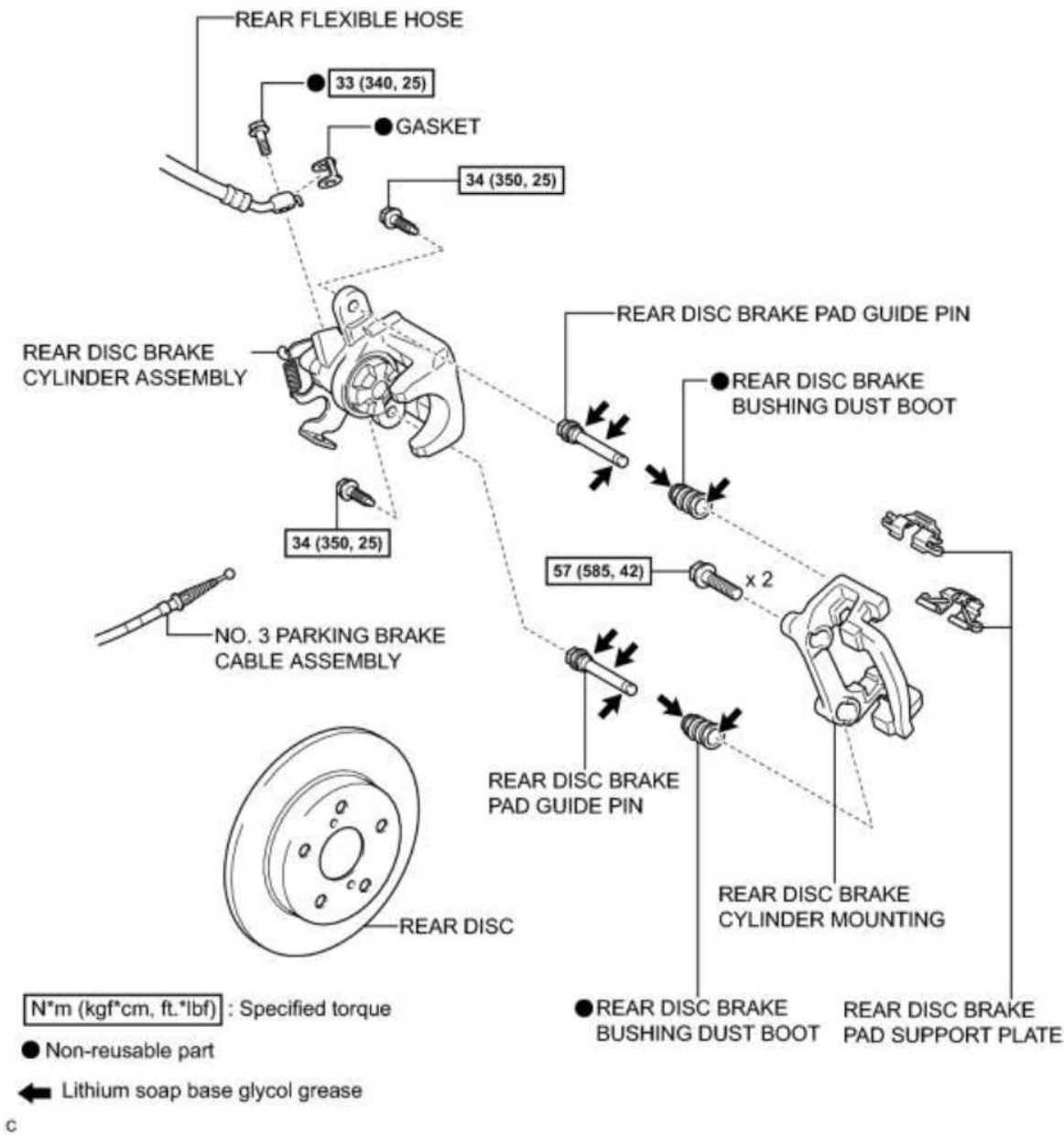
COMPONENTS

ILLUSTRATION

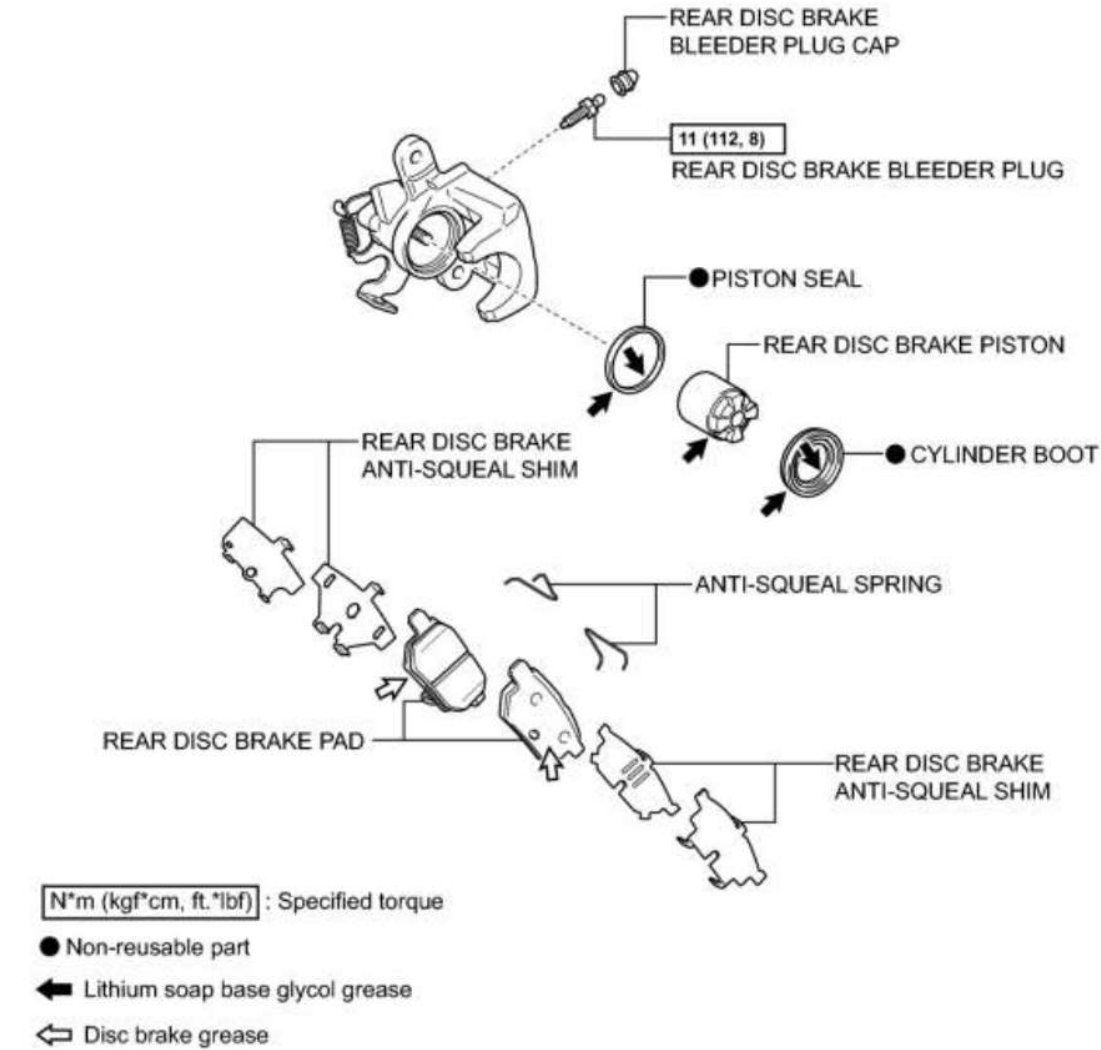


c

ILLUSTRATION



ILLUSTRATION



c

cardiagn.com

REMOVAL

NOTICE:

When the brake pedal is first depressed after replacing the brake pads or pushing back the disc brake piston, DTC C1214 may be output. As there is no malfunction, clear the DTC.

HINT:

- Use the same procedure for the LH side and RH side.
- The following procedure is for the LH side.

1. DISABLE BRAKE CONTROL_ INFO

2. REMOVE REAR WHEEL

3. DRAIN BRAKE FLUID

NOTICE:

If brake fluid leaks onto any painted surface, immediately wash it off.

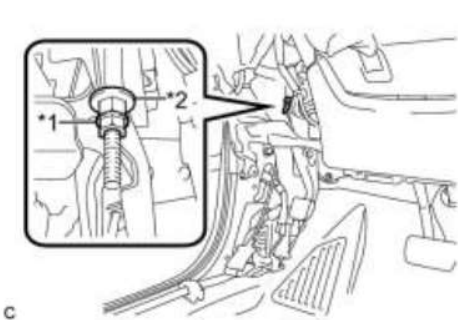
4. REMOVE FRONT DOOR SCUFF PLATE LH_ INFO

5. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH_ INFO

6. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY_ INFO

7. LOOSEN PARKING BRAKE CABLE

(a) Completely release the parking brake pedal.

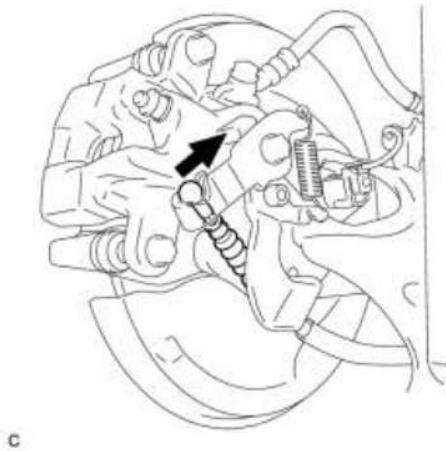


(b) Loosen the lock nut and adjusting nut to completely release the parking brake cable.

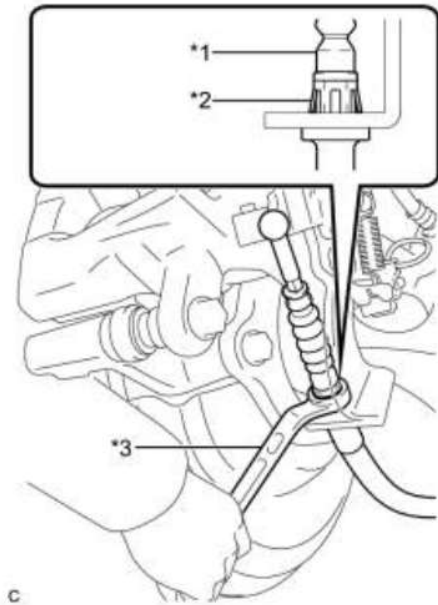
Text in Illustration

*1	Lock Nut
*2	Adjusting Nut

8. DISCONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY



(a) Separate the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.



(b) Separate the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.

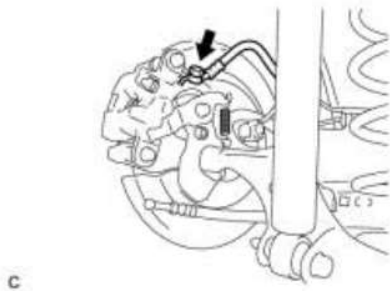
Text in Illustration

*1	No. 3 Parking Brake Cable Assembly
*2	Clip
*3	Offset Wrench (14 mm)

HINT:

Insert an offset wrench (14 mm) at the base of the No. 3 parking brake cable assembly as shown in the illustration to disengage the clip. Pull out the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.

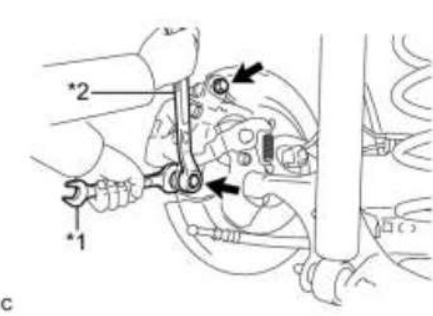
9. SEPARATE REAR FLEXIBLE HOSE



(a) Remove the union bolt and gasket, and separate the rear flexible hose from the rear disc brake cylinder assembly.

10. REMOVE REAR DISC BRAKE CYLINDER ASSEMBLY

(a) Hold the rear disc brake pad guide pin, and remove the 2 bolts and rear disc brake cylinder assembly.



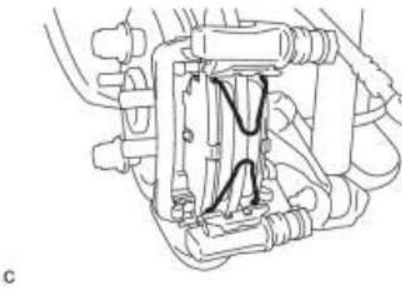
Text in Illustration

*1	Hold
*2	Turn

NOTICE:

Remove the rear disc brake cylinder assembly while holding both of the rear disc brake pads because the anti-squeal springs may fall off the rear disc brake pads.

11. REMOVE REAR DISC BRAKE PAD



(a) Remove the 2 anti-squeal springs from the rear disc brake pads.

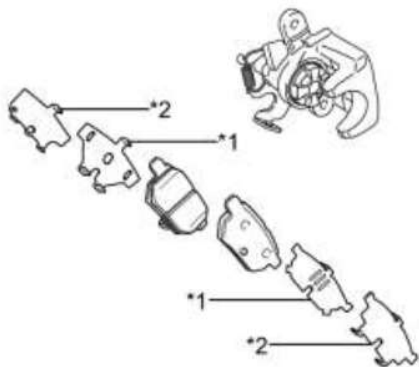
(b) Remove the 2 rear disc brake pads from the rear disc brake cylinder mounting.

12. REMOVE REAR DISC BRAKE ANTI-SQUEAL SHIM

(a) Remove the rear No. 1 disc brake anti-squeal shim and rear No. 2 disc brake anti-squeal shim from each rear disc brake pad.

Text in Illustration

*1	Rear No. 1 Disc Brake Anti-squeal Shim
*2	Rear No. 2 Disc Brake Anti-squeal Shim



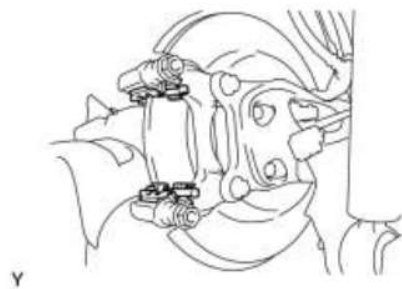
c

13. REMOVE REAR DISC BRAKE PAD SUPPORT PLATE

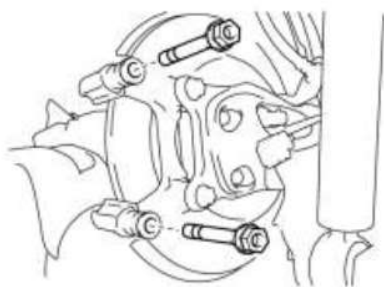
(a) Remove the 2 rear disc brake pad support plates from the disc brake cylinder mounting.

NOTICE:

Each rear disc brake pad support plate has a different shape. Be sure to put an identification mark on each rear disc brake pad support plate so that it can be installed to its original position.



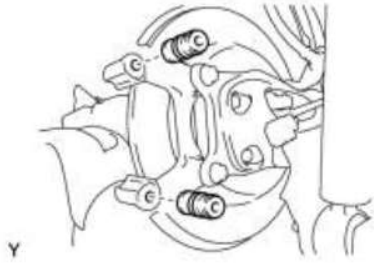
14. REMOVE REAR DISC BRAKE PAD GUIDE PIN



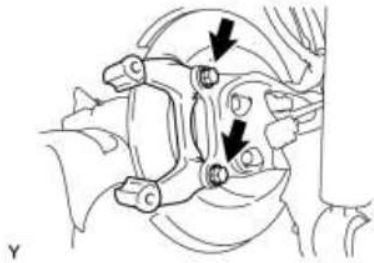
(a) Remove the 2 rear disc brake pad guide pins from the rear disc brake cylinder mounting.

15. REMOVE REAR DISC BRAKE BUSHING DUST BOOT

(a) Remove the 2 rear disc brake bushing dust boots from the rear disc brake cylinder mounting.



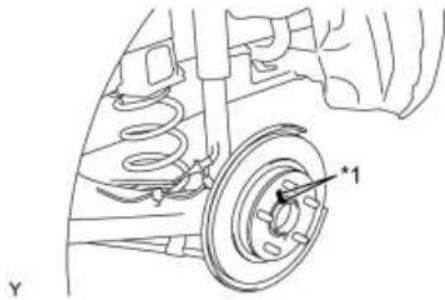
16. REMOVE REAR DISC BRAKE CYLINDER MOUNTING



(a) Remove the 2 bolts and rear disc brake cylinder mounting from the axle beam.

17. REMOVE REAR DISC

(a) Remove the rear disc.



Text in Illustration

*1	Matchmark
----	-----------

HINT:

Place matchmarks on the disc and axle hub.

DISASSEMBLY

1. REMOVE REAR DISC BRAKE PISTON



(a) Using SST, remove the rear disc brake piston by turning it counterclockwise.

SST: 09960-10010

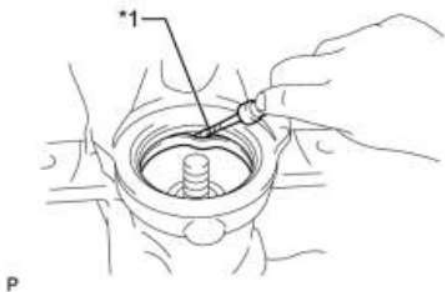
09963-00400

- Do not damage the piston.
- Do not allow any brake fluid to spatter.

2. REMOVE CYLINDER BOOT

(a) Remove the cylinder boot from the rear disc brake piston.

3. REMOVE PISTON SEAL



(a) Using a screwdriver with its tip wrapped with vinyl tape, remove the piston seal from the rear disc brake cylinder assembly.

Text in Illustration

*1	Vinyl Tape
----	------------

NOTICE:

Do not damage the inner surface or piston seal groove of the cylinder.

4. REMOVE REAR DISC BRAKE BLEEDER PLUG CAP

5. REMOVE REAR DISC BRAKE BLEEDER PLUG

INSPECTION

1. INSPECT BRAKE CYLINDER AND PISTON

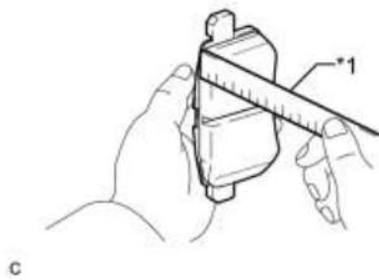
(a) Check the cylinder bore and piston for rust and scoring. If necessary, replace the disc brake cylinder and piston.

2. INSPECT PAD LINING THICKNESS

(a) Using a ruler, measure the pad lining thickness.

Text in Illustration

*1	Ruler
----	-------



Standard thickness:

9.5 mm (0.374 in.)

Minimum thickness:

1.0 mm (0.0394 in.)

If the pad lining thickness is equal to the minimum thickness or less, replace the brake pads with a disc brake pad kit.

HINT:

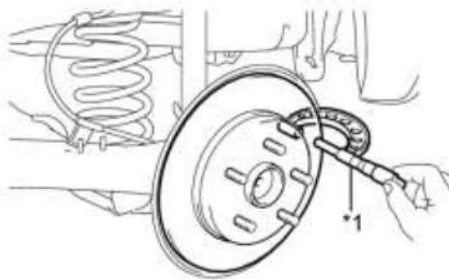
Be sure to check the wear of the rear disc after replacing the brake pads with new ones.

3. INSPECT REAR DISC BRAKE PAD SUPPORT PLATE

(a) Make sure that the rear disc brake pad support plates have sufficient rebound, no deformation, cracks or wear, and that all rust and dirt are removed. If necessary, replace the rear disc brake pad support plates.

4. INSPECT DISC THICKNESS

(a) Using a micrometer, measure the disc thickness.



Text in Illustration

*1	Micrometer
----	------------

Standard thickness:

9.0 mm (0.354 in.)

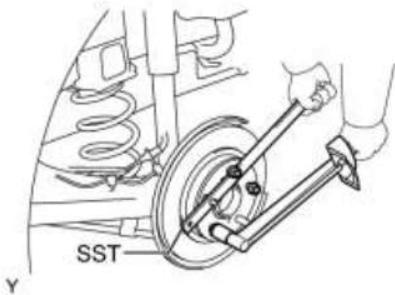
Minimum thickness:

7.5 mm (0.295 in.)

If the disc thickness is less than the minimum, replace the rear disc.

5. INSPECT DISC RUNOUT

(a) Inspect the rear axle hub bearing looseness and axle hub runout INFO.

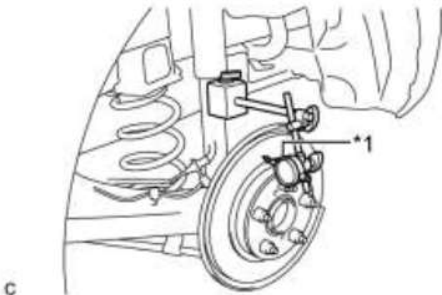


(b) While holding the disc using SST, tighten the disc with the 5 hub nuts.

SST: 09330-00021

Torque: **103 N·m (1050 kgf·cm, 76ft·lbf)**

(c) Using a dial indicator with magnetic base, measure the disc runout 10 mm (0.394 in.) away from the outer edge of the rear disc.



Text in Illustration

*1	Dial Indicator
----	----------------

Maximum disc runout:

0.15 mm (0.00591 in.)

NOTICE:

Keep the magnet of the dial indicator away from the axle hub and speed sensor.

If the runout exceeds the maximum value, change the installation position of the disc to minimize the runout. If the runout exceeds the maximum even when the installation position is changed, grind the disc. If the disc thickness is less than the minimum, replace the rear disc.

(d) Remove the 5 nuts and rear disc.

REASSEMBLY

1. TEMPORARILY TIGHTEN REAR DISC BRAKE BLEEDER PLUG

HINT:

Fully tighten the rear disc brake bleeder plug after bleeding any air left in the system.

2. INSTALL REAR DISC BRAKE BLEEDER PLUG CAP

3. INSTALL PISTON SEAL



 Lithium soap base glycol grease

c

(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of a new piston seal.

(b) Install the piston seal to the rear disc brake cylinder assembly.

NOTICE:

Securely install the piston seal to the groove of the rear disc brake cylinder assembly.

4. INSTALL CYLINDER BOOT

(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of the rear disc brake piston and a new cylinder boot.



(b) Install the cylinder boot to the piston as shown in the illustration.

NOTICE:

Do not install the cylinder boot after installing the piston into the disc brake cylinder.

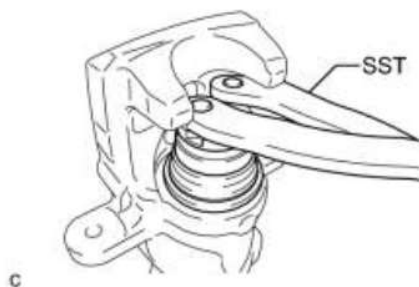
5. INSTALL REAR DISC BRAKE PISTON



(a) Install the seal portion of the cylinder boot into the groove portion of the rear disc brake cylinder assembly.

NOTICE:

Securely install the cylinder boot to the groove of the rear disc brake cylinder assembly.



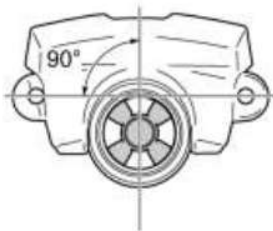
(b) Using SST, install the rear disc brake piston by turning it clockwise as far as possible.

SST: 09960-10010

09963-00400

- Securely install the cylinder boot to the groove of the piston.
- Do not damage the piston or cylinder boot.

(c) Using SST, slowly return the piston until the piston



c

groove is positioned as shown in the illustration.

HINT:

When installing the rear disc brake cylinder assembly to the rear disc brake cylinder mounting, align the piston groove with the protrusion on the rear disc brake pad.



c

(d) Make sure that the cylinder boot is securely installed into the groove of the rear disc brake cylinder assembly and rear disc brake piston.

Text in Illustration

*1	Cylinder Boot
----	---------------

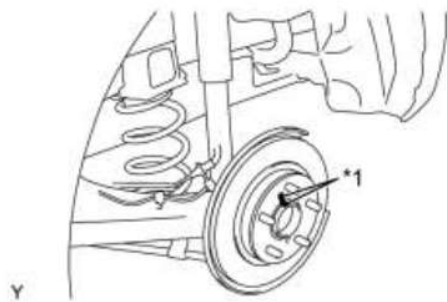
INSTALLATION

HINT:

- Use the same procedure for the LH side and RH side.
- The following procedure is for the LH side.

1. INSTALL REAR DISC

(a) Align the matchmarks of the disc and axle hub, and install the disc.



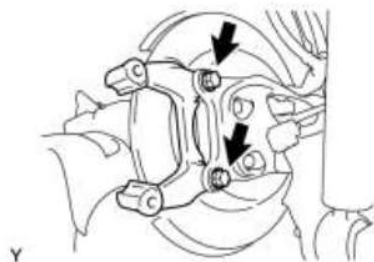
Text in Illustration

*1	Matchmark
----	-----------

NOTICE:

When replacing the disc with a new one, select the installation position where the rear disc has minimal runout.

2. INSTALL REAR DISC BRAKE CYLINDER MOUNTING



(a) Install the rear disc brake cylinder mounting to the axle beam with the 2 bolts.

Torque: **57 N·m (585 kgf·cm, 42ft·lbf)**

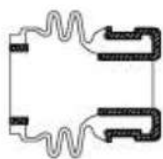
3. INSTALL REAR DISC BRAKE BUSHING DUST BOOT

(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of 2 new rear disc brake bushing dust boots.

HINT:

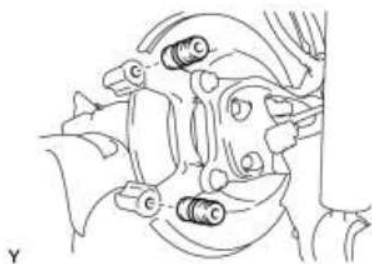
Apply at least 0.3 g (0.01 oz.) of lithium soap base glycol

grease to each rear disc brake bushing dust boot.



 Lithium soap base glycol grease

c



(b) Install the 2 rear disc brake bushing dust boots to the rear disc brake cylinder mounting.

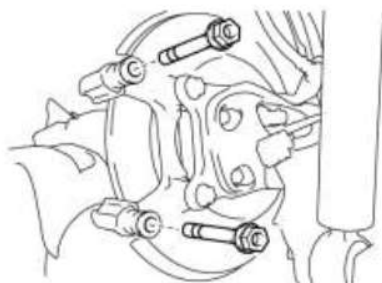
4. INSTALL REAR DISC BRAKE PAD GUIDE PIN



 Lithium soap base glycol grease

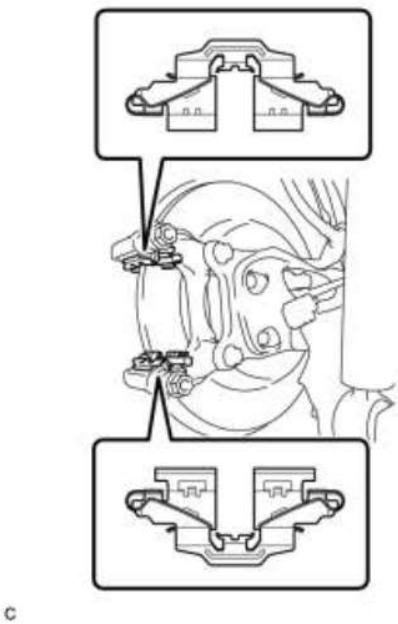
c

(a) Apply a light layer of lithium soap base glycol grease to the sliding and sealing surfaces of the 2 rear disc brake pad guide pins.



(b) Install the 2 rear disc brake pad guide pins to the rear disc brake cylinder mounting.

5. INSTALL REAR DISC BRAKE PAD SUPPORT PLATE



(a) Install the 2 rear disc brake pad support plates to the rear disc brake cylinder mounting.

NOTICE:

Be sure to install each rear disc brake pad support plate in the correct position and direction.

6. INSTALL REAR DISC BRAKE ANTI-SQUEAL SHIM

Inner Pad:



Outer Pad:



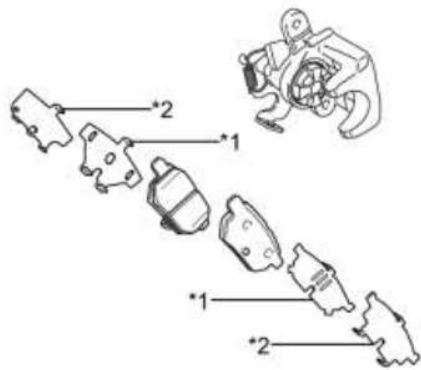
 Disc brake grease

(a) Apply disc brake grease to the back plate of the rear disc brake pads.

(b) Install the rear No. 1 disc brake anti-squeal shim and rear No. 2 disc brake anti-squeal shim to each rear disc brake pad.

Text in Illustration

*1	Rear No. 1 Disc Brake Anti-squeal Shim
----	--

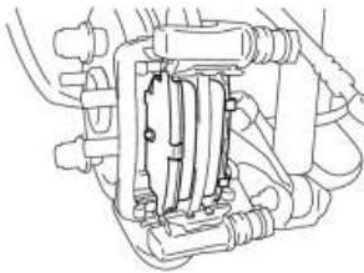


*2 Rear No. 2 Disc Brake Anti-squeal Shim

- When replacing worn pads, the anti-squeal shims must be replaced together with the pads.
- Apply disc brake grease to the area that contacts the anti-squeal shim.
- Disc brake grease may seep out slightly from the areas where the anti-squeal shims are installed.
- Make sure that disc brake grease is not applied onto the lining surface.

c

7. INSTALL REAR DISC BRAKE PAD

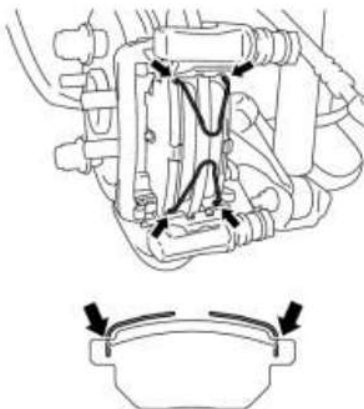


(a) Install the 2 rear disc brake pads to the rear disc brake cylinder mounting.

NOTICE:

There should be no oil or grease on the friction surfaces of the disc brake pads or the rear disc.

y



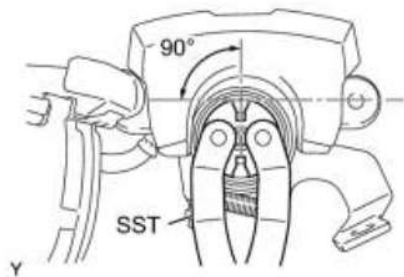
(b) Install the 2 anti-squeal springs to the rear disc brake pads.

- When replacing the rear disc brake pads with new ones, make sure to replace the anti-squeal springs at the same time.
- Be sure to install the anti-squeal springs into the rear disc brake pad installation holes as far as they will go.

c

8. INSTALL REAR DISC BRAKE CYLINDER ASSEMBLY

(a) To compensate for pad wear when reusing the pad, use SST to turn the piston to the position where the protrusion on the pad lines up properly with the piston groove.



Retract	Extend
Clockwise	Counterclockwise

SST: 09960-10010

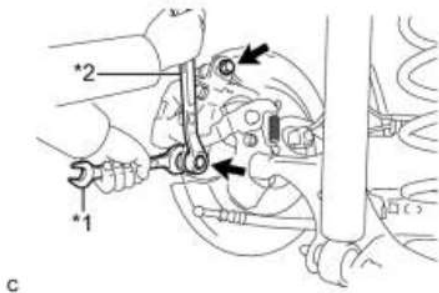
09963-00400

NOTICE:

Place the disc between the 2 brake pads and determine the piston return value.

(b) Hold the rear disc brake cylinder pad guide pin, and install the rear disc brake cylinder assembly to the rear disc brake cylinder mounting with the 2 bolts.

Text in Illustration



*1	Hold
*2	Turn

Torque: 34 N·m (350 kgf·cm, 25ft·lbf)

- Install the rear disc brake cylinder assembly while holding both of the rear disc brake pads because the anti-squeal springs may fall off the rear disc brake pads.
- Be sure that the anti-squeal springs are installed to the rear disc brake pads.

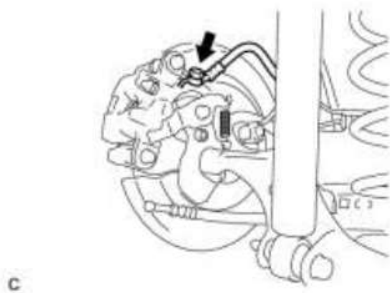
9. CONNECT REAR FLEXIBLE HOSE

(a) Connect the rear flexible hose to the rear disc brake cylinder assembly with a new union bolt and a new gasket.

Torque: 33 N·m (340 kgf·cm, 25ft·lbf)

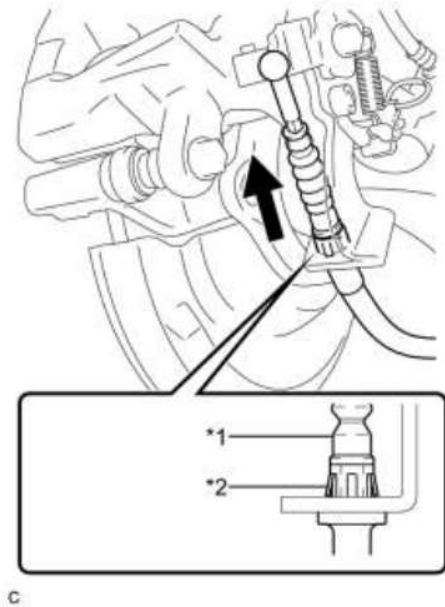
HINT:

Install the flexible hose lock securely into the lock hole in



the disc brake cylinder.

10. CONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY



(a) Install the No. 3 parking brake cable assembly to the rear disc brake cylinder assembly.

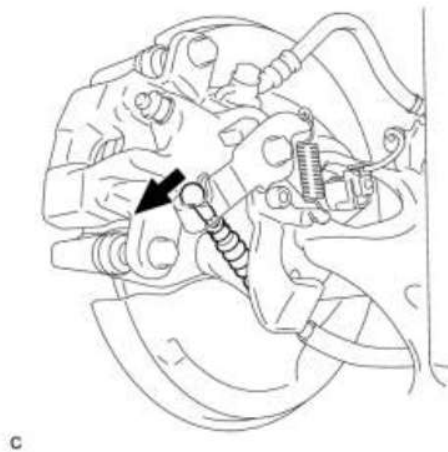
Text in Illustration

*1	No. 3 Parking Brake Cable Assembly
*2	Clip

HINT:

Be sure to engage the No. 3 parking brake cable assembly clip onto the rear disc brake cylinder assembly as shown in the illustration.

(b) Connect the No. 3 parking brake cable assembly to the rear disc brake cylinder assembly.



11. BLEED BRAKE LINE_ INFO

12. PERFORM INITIALIZATION AND CALIBRATION OF LINEAR SOLENOID VALVE

HINT:

If the brake control has been disabled, make sure to perform initialization and calibration of the linear solenoid valve INFO.

13. ADJUST PARKING BRAKE

HINT: INFO

14. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY_ INFO

15. INSTALL COWL SIDE TRIM SUB-ASSEMBLY LH_ INFO

16. INSTALL FRONT DOOR SCUFF PLATE LH_ INFO

17. INSTALL REAR WHEEL

Torque: **103 N·m (1050 kgf·cm, 76ft·lbf)**