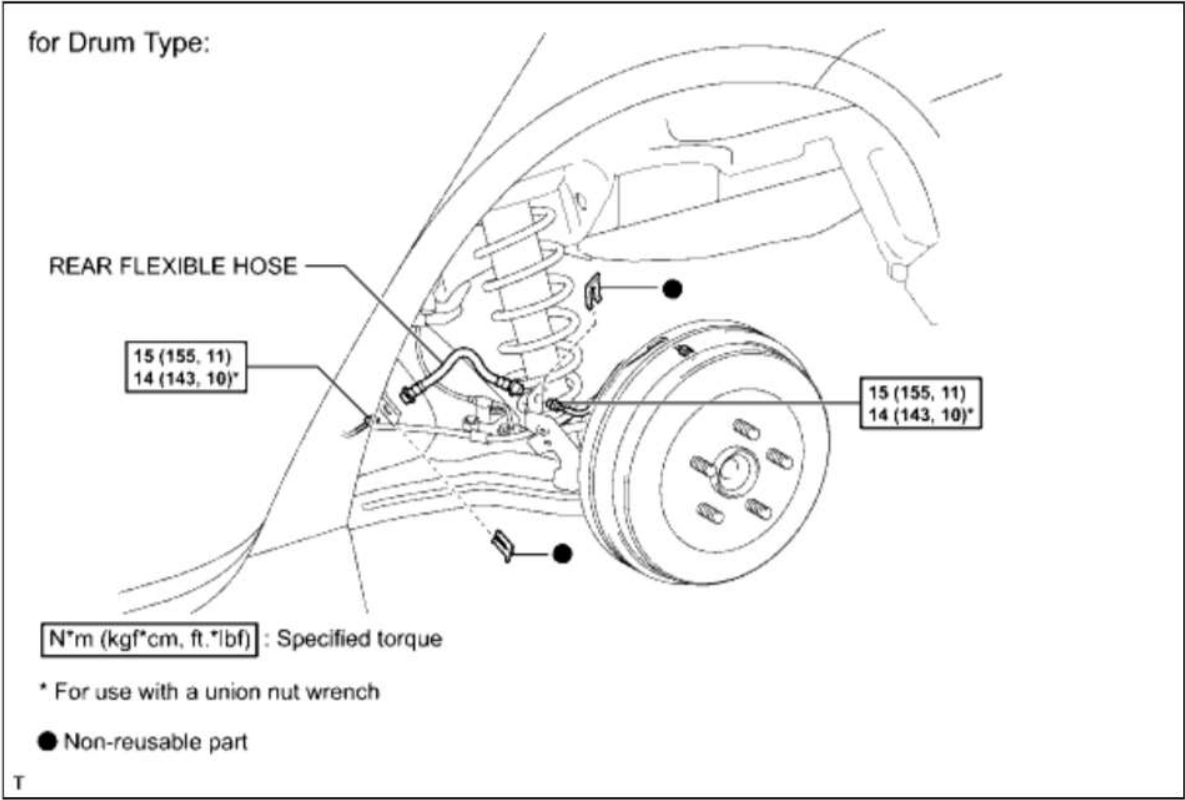


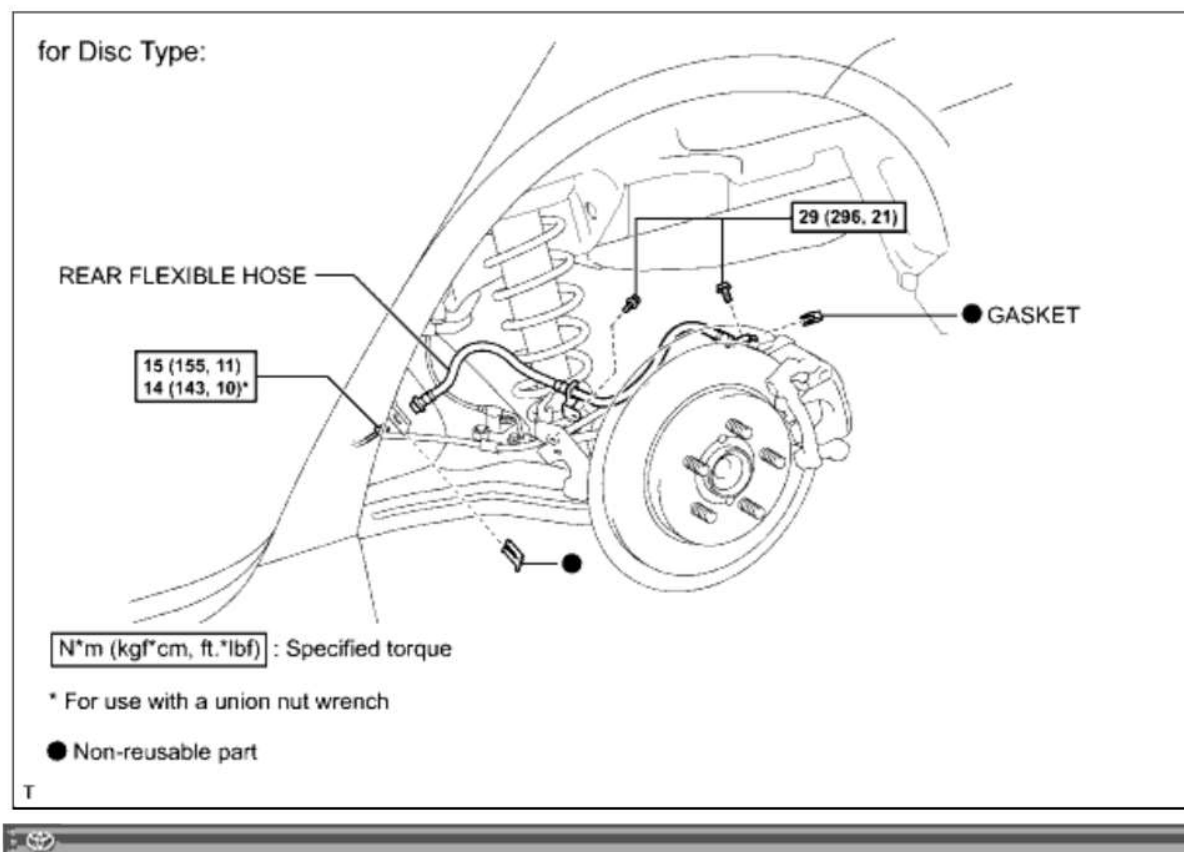
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000003L100RX
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000003L200RX
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: REMOVAL (2010 Corolla)		

REMOVAL

NOTICE:

If both the RH side hose and LH side hose are disconnected at the same time, be sure to place identification marks indicating the position on each side.

HINT:

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

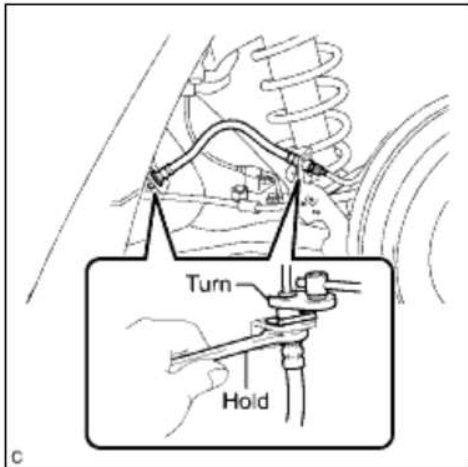
1. REMOVE REAR WHEEL

2. DRAIN BRAKE FLUID

NOTICE:

Immediately wash off any brake fluid that comes into contact with any painted surfaces.

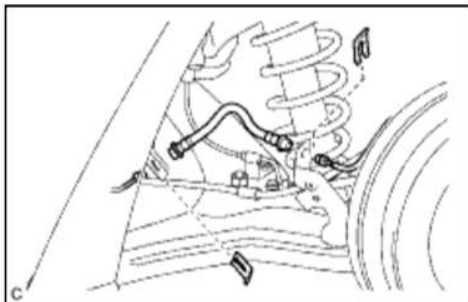
3. REMOVE REAR FLEXIBLE HOSE (for Drum Type)



- (a) Using a union nut wrench (10 mm), disconnect the 2 brake lines while holding the rear flexible hose with a wrench.

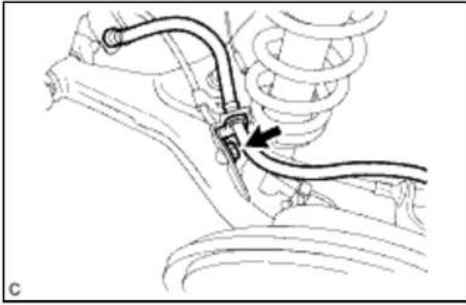
NOTICE:

- Do not kink or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.

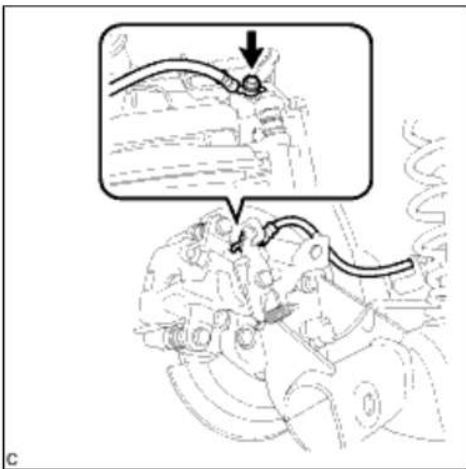


- (b) Remove the 2 clips and rear flexible hose.

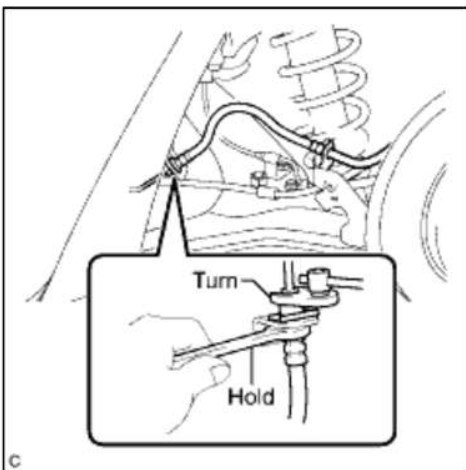
4. REMOVE REAR FLEXIBLE HOSE (for Disc Type)



- (a) Remove the bolt and separate the rear flexible hose from the rear axle beam.



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

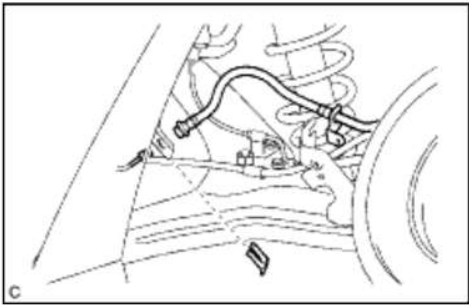


- (c) Using a union nut wrench (10 mm), disconnect the brake line while holding the rear flexible hose with a wrench.

NOTICE:

- Do not kink or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.

- (d) Remove the clip and rear flexible hose.



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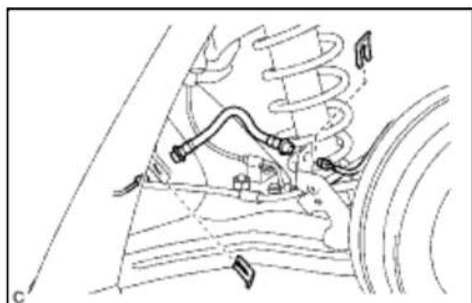
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000003L000RX
Title: BRAKE (REAR): REAR BRAKE FLEXIBLE HOSE: INSTALLATION (2010 Corolla)		

INSTALLATION

NOTICE:

- Because the left and right rear flexible hoses are not interchangeable, verify the part number when installing the flexible hoses.
- If the hoses are to be reused, connect them after checking the identification marks placed when each hose was disconnected.

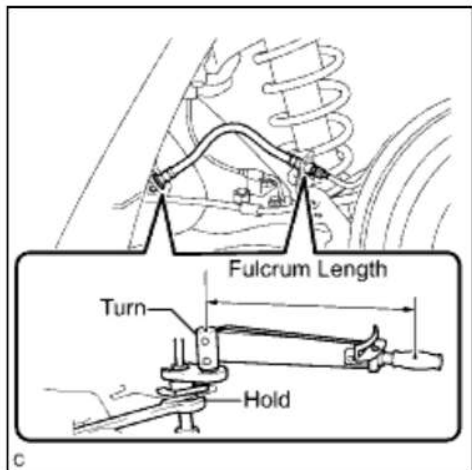
1. INSTALL REAR FLEXIBLE HOSE (for Drum Type)



(a) Install the rear flexible hose with 2 new clips.

NOTICE:

Install the clip as far as it will go.



(b) Using a union nut wrench (10 mm), connect the 2 brake lines to the rear flexible hose while holding the rear flexible hose with a wrench.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)
with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

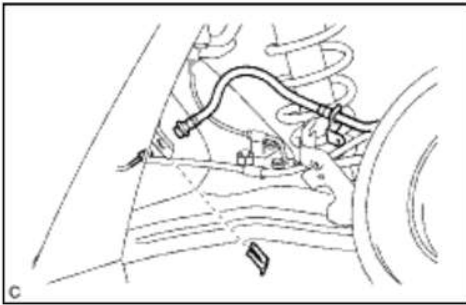
NOTICE:

- Do not kink or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.
- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

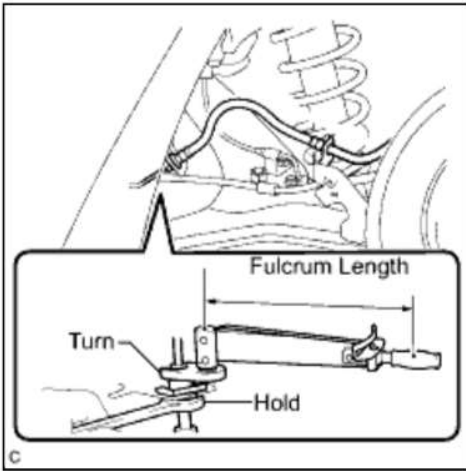
2. INSTALL REAR FLEXIBLE HOSE (for Disc Type)

(a) Install the rear flexible hose with a new clip.

NOTICE:



Install the clip as far as it will go.



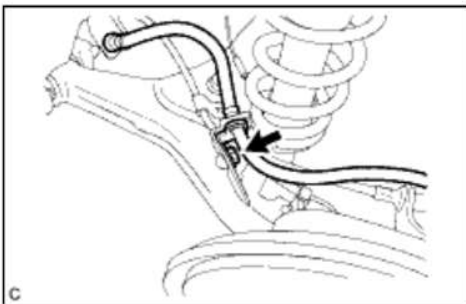
(b) Using a union nut wrench (10 mm), connect the brake line to the rear flexible hose while holding the rear flexible hose with a wrench.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Do not kink or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.
- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

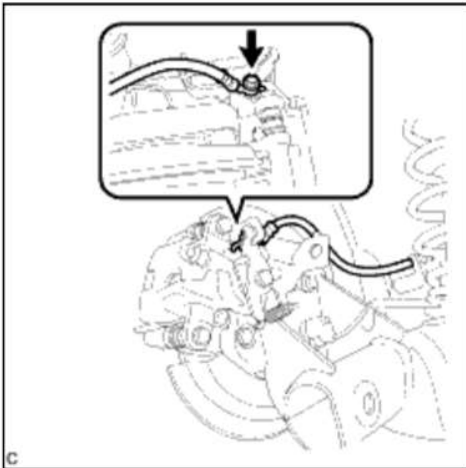


(c) Install the rear flexible hose to the rear axle beam with the bolt.

Torque: 29 N·m (296 kgf·cm, 21ft·lbf)

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

Torque: 29 N·m (296 kgf·cm, 21ft·lbf)

**3. FILL RESERVOIR WITH BRAKE FLUID****INFO****4. BLEED BRAKE LINE****INFO****5. INSPECT FOR BRAKE FLUID LEAK****6. INSPECT FLUID LEVEL****INFO****7. INSTALL REAR WHEEL****Torque: 103 N·m (1050 kgf·cm, 76ft·lbf)****TOYOTA**

1-1

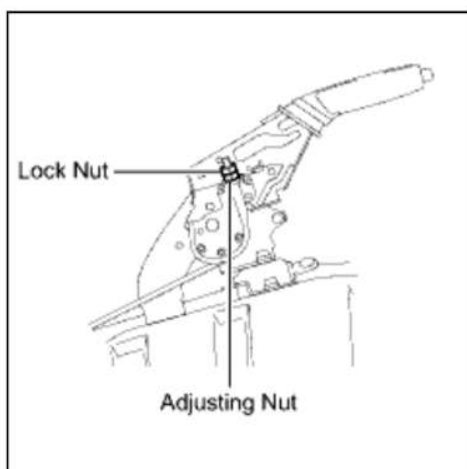
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001E9F01FX
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): REMOVAL (2010 Corolla)		

REMOVAL

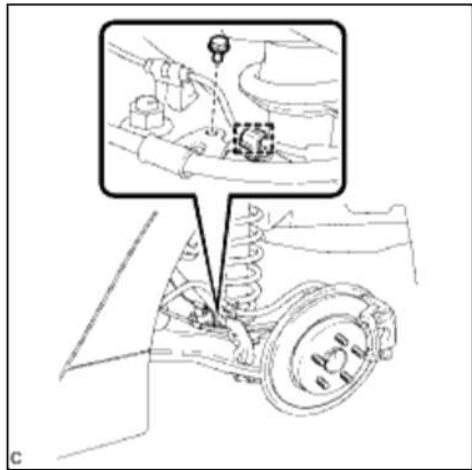
HINT:

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

1. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH [INFO](#)
 2. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH [INFO](#)
 3. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle) [INFO](#)
 4. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle) [INFO](#)
 5. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle) [INFO](#)
 6. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle) [INFO](#)
 7. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY [INFO](#)
 8. REMOVE REAR WHEEL
 9. DRAIN BRAKE FLUID
- NOTICE:**
Immediately wash off any brake fluid that comes into contact with any painted surfaces.
10. LOOSEN PARKING BRAKE CABLE

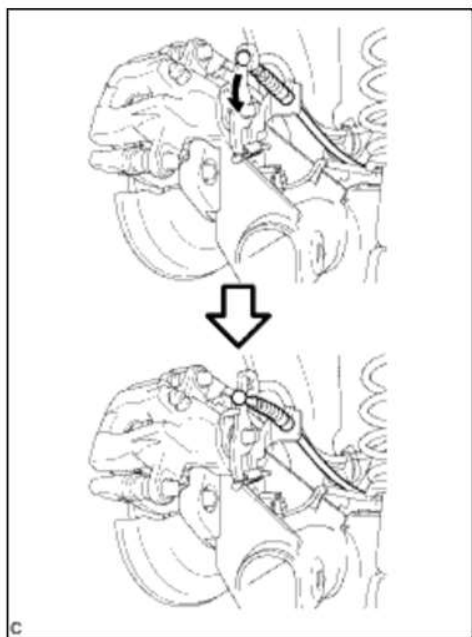


- (a) Loosen the lock nut and adjusting nut to completely release the parking brake cable.

11. REMOVE PARKING BRAKE LEVER PROTECTOR INFO**12. DISCONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY**

(a) Disengage the clamp from the No. 3 parking brake cable assembly.

(b) Remove the bolt.

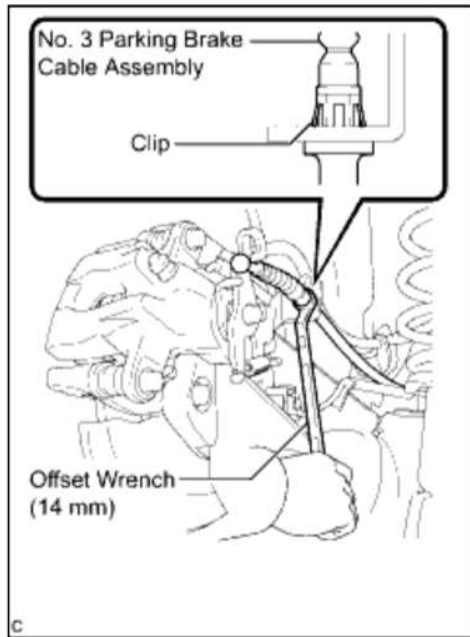


(c) Separate the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.

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

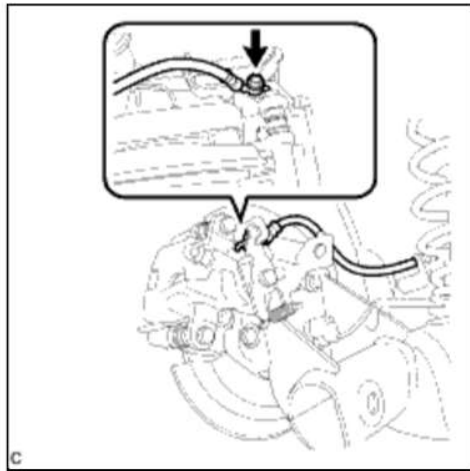
HINT:

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.

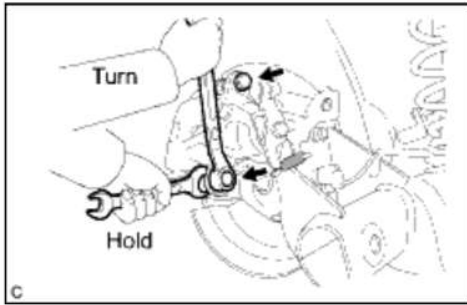
13. SEPARATE REAR BRAKE FLEXIBLE HOSE



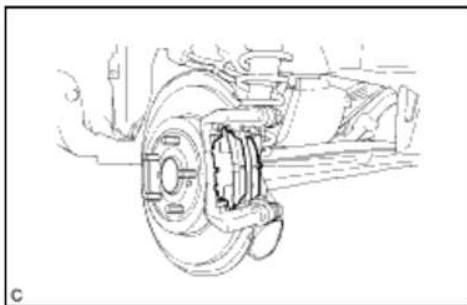
(a) Remove the union bolt and gasket, and separate the rear brake flexible hose from the rear disc brake cylinder assembly.

14. REMOVE REAR DISC BRAKE CYLINDER ASSEMBLY

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



15. REMOVE REAR DISC BRAKE PAD

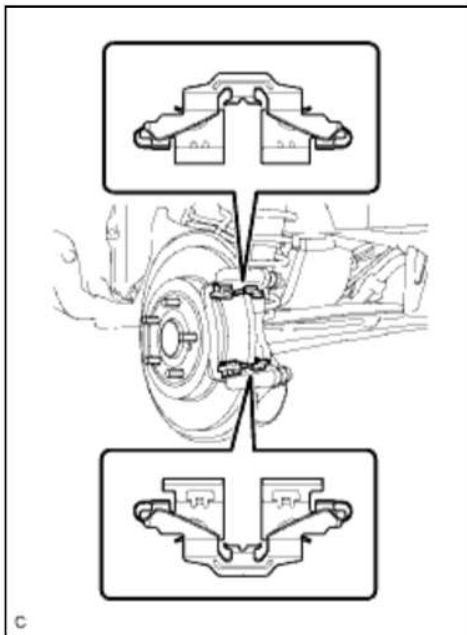


- (a) Remove the 2 disc brake pads from the rear disc brake cylinder mounting.

16. REMOVE REAR DISC BRAKE ANTI-SQUEAL SHIM

- (a) Remove the 4 anti-squeal shims from each brake pad.

17. REMOVE REAR DISC BRAKE PAD SUPPORT PLATE

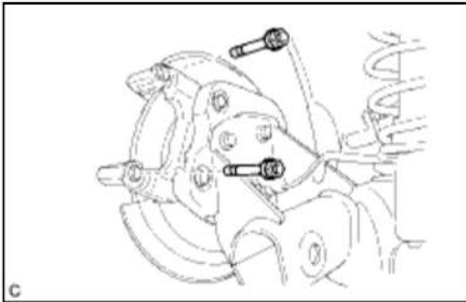


- (a) Remove the rear disc brake pad support plate (upper) and rear disc brake pad support plate (lower) from the disc brake cylinder mounting.

NOTICE:

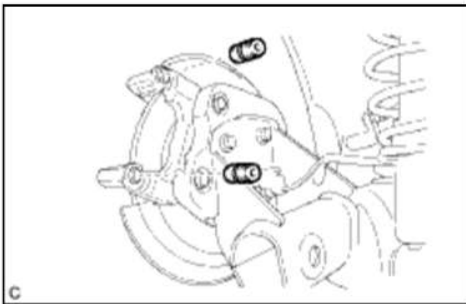
Each rear disc brake pad support plate has a different shape. Be sure to put an identification mark on each rear disc brake pad support plate so that it can be installed to its original position.

18. REMOVE REAR DISC BRAKE PAD GUIDE PIN



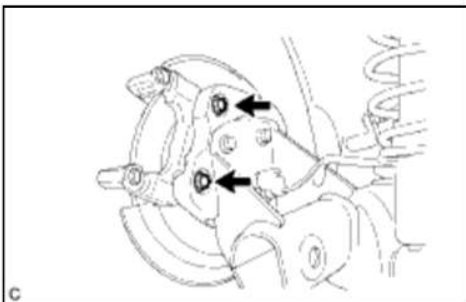
- (a) Remove the 2 rear disc brake pad guide pins from the disc brake cylinder mounting.

19. REMOVE REAR DISC BRAKE BUSHING DUST BOOT



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

20. REMOVE REAR DISC BRAKE CYLINDER MOUNTING



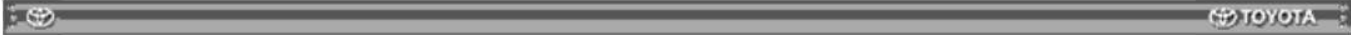
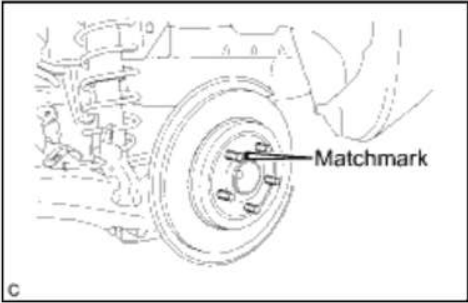
- (a) Remove the 2 bolts and the rear disc brake cylinder mounting from the axle beam.

21. REMOVE REAR DISC

- (a) Remove the rear disc.

HINT:

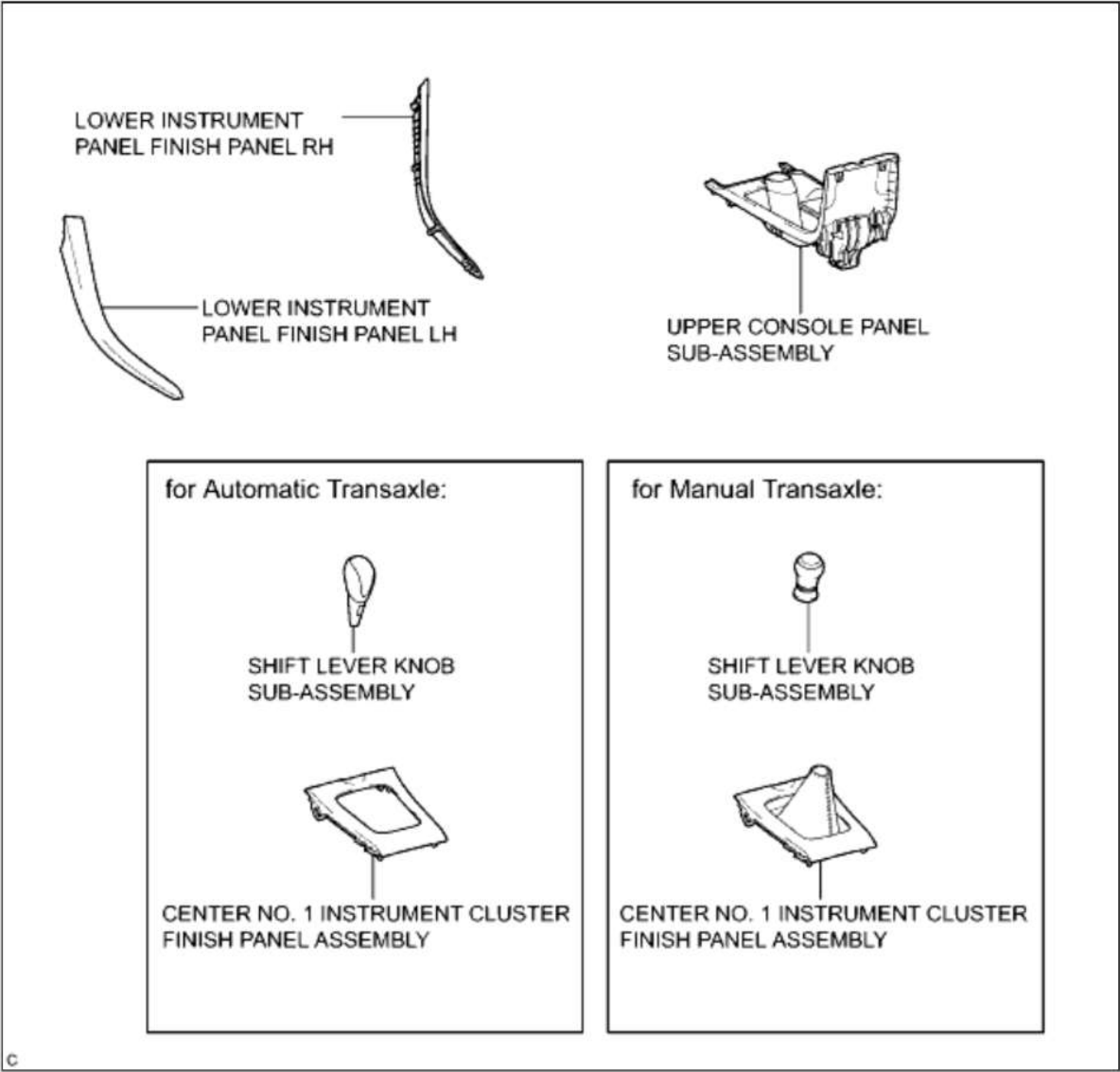
Place matchmarks on the disc and axle hub.



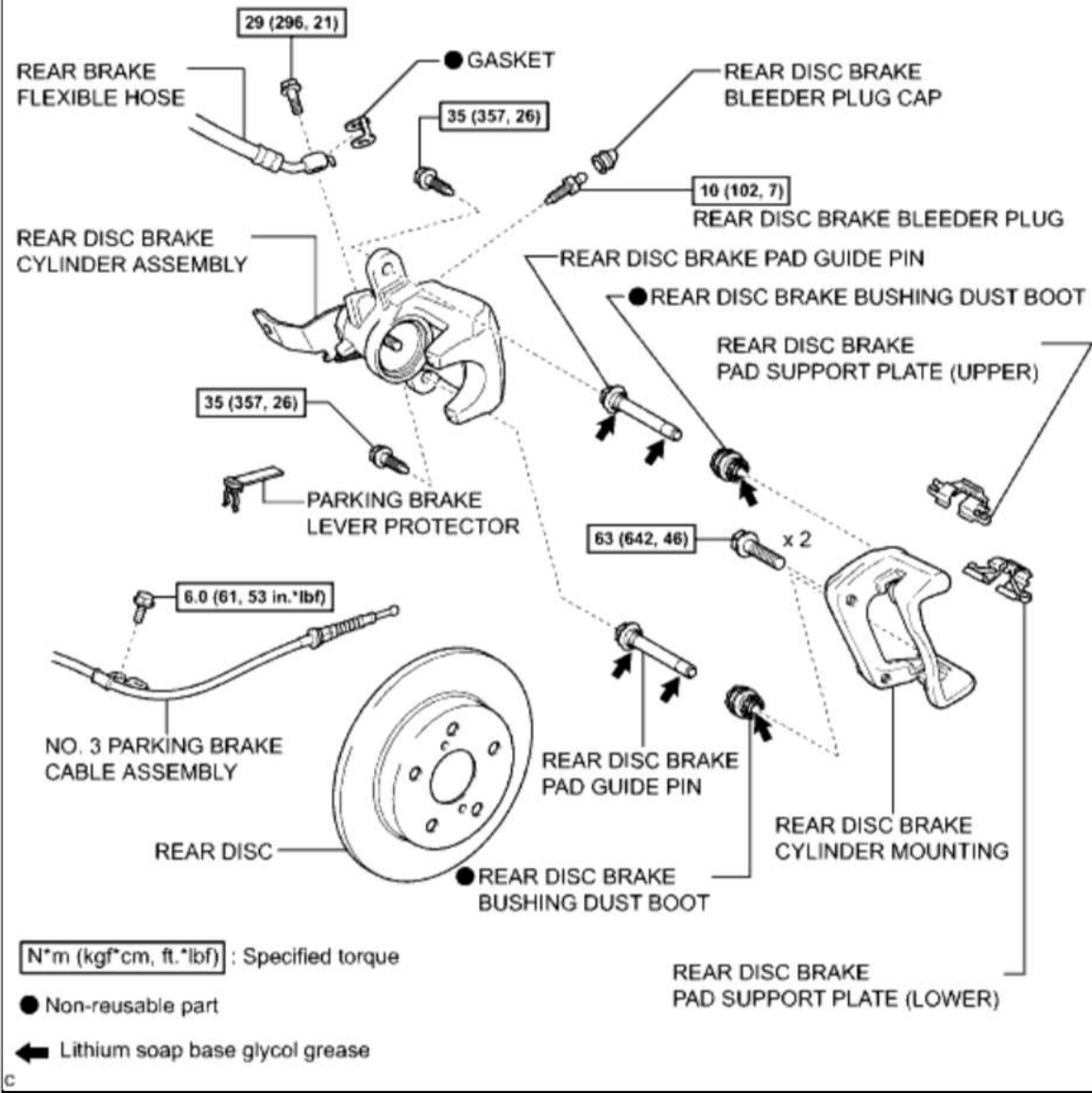
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002VJ000JX
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): COMPONENTS (2010 Corolla)		

COMPONENTS

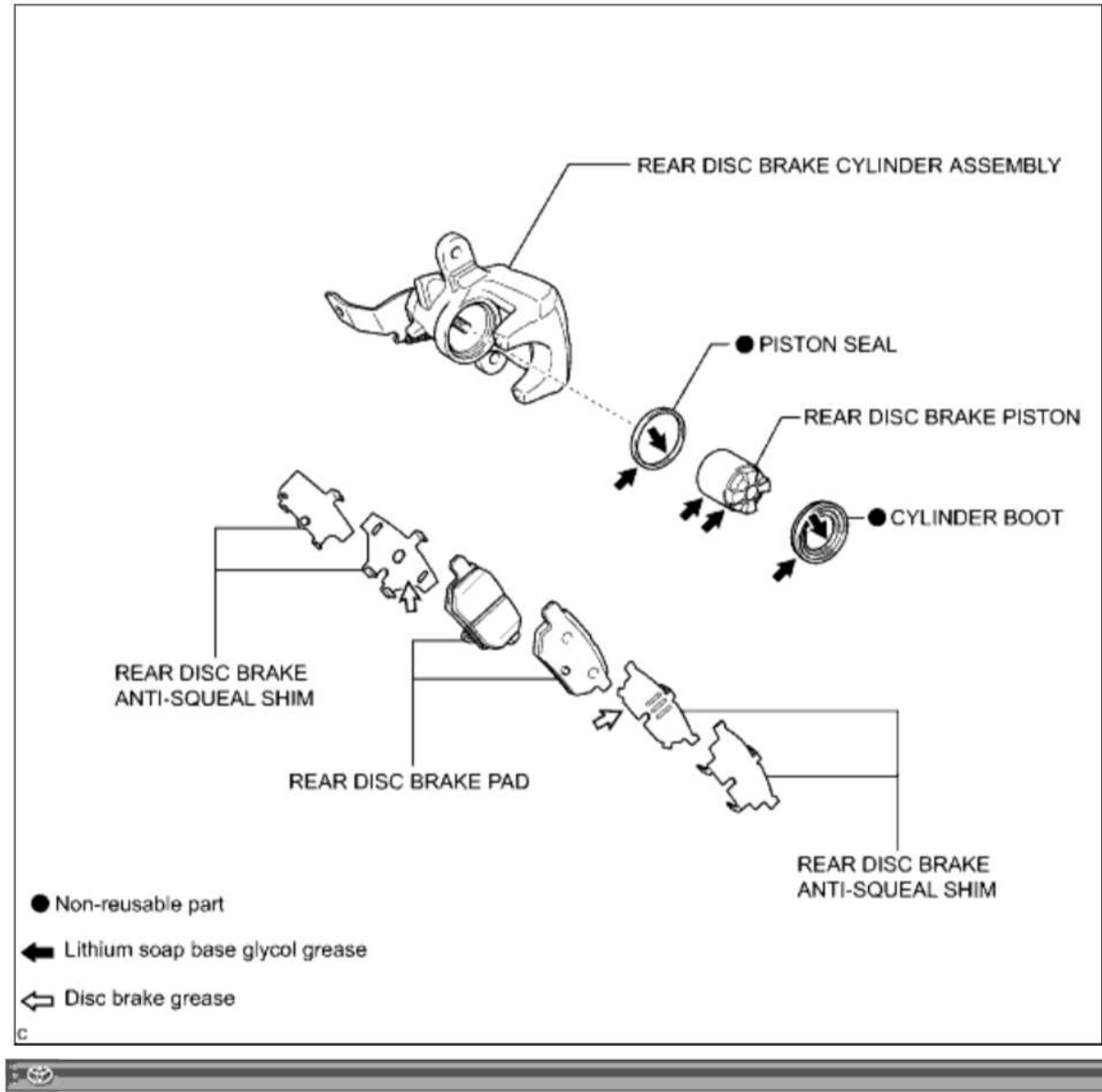
ILLUSTRATION



ILLUSTRATION



ILLUSTRATION

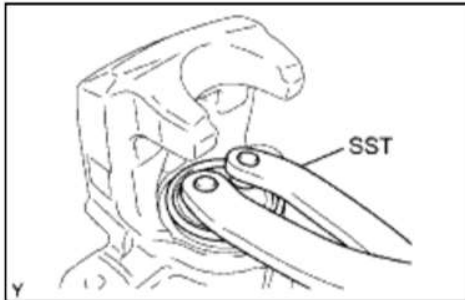


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001E9G017X
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): DISASSEMBLY (2010 Corolla)		

DISASSEMBLY

1. REMOVE REAR DISC BRAKE PISTON



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

SST: 09960-10010

09963-00400

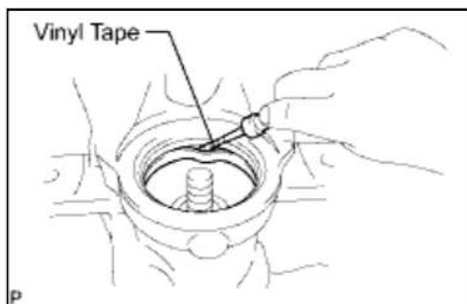
NOTICE:

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

2. REMOVE CYLINDER BOOT

(a) Remove the cylinder boot from the piston.

3. REMOVE PISTON SEAL



(a) Using a screwdriver, remove the piston seal from the rear disc brake cylinder.

NOTICE:

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

HINT:

Tape the screwdriver tip before use.

4. REMOVE REAR DISC BRAKE BLEEDER PLUG CAP

5. REMOVE REAR DISC BRAKE BLEEDER PLUG



Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001E9L01GX
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): INSPECTION (2010 Corolla)		

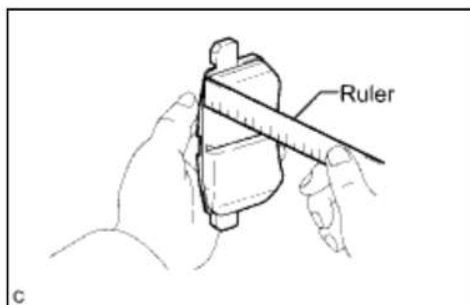
INSPECTION

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.



Standard thickness:

9.5 mm (0.374 in.)

Minimum thickness:

1.0 mm (0.0394 in.)

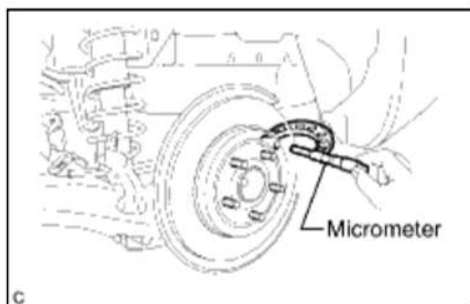
If the pad lining thickness is equal to the minimum or less, replace the brake pads with a disc brake pad kit.

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.

Standard Thickness:

9.0 mm (0.354 in.)

Minimum Thickness:

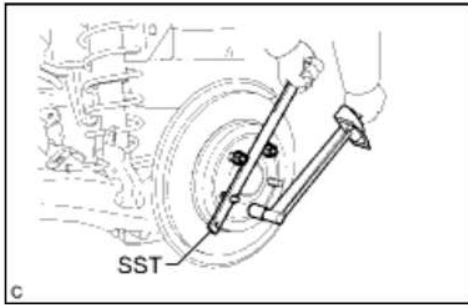
7.5 mm (0.295 in.)

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 .

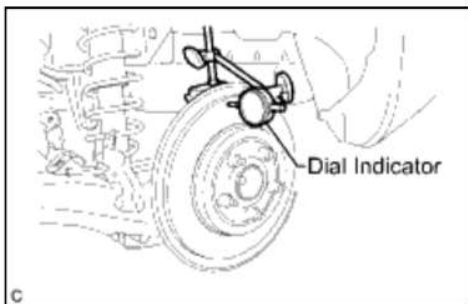
- (b) While holding the disc using SST, tighten the disc with the



5 hub nuts.

SST: 09330-00021

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



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

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.

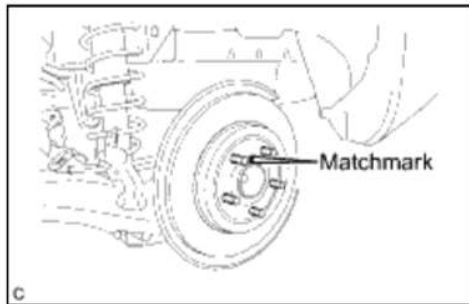
(d) Remove the 5 nuts and rear disc.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001E9D01FX
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL REAR DISC

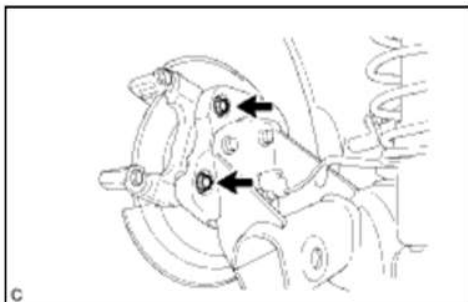


- (a) Align the matchmarks of the disc and axle hub and install the disc.

NOTICE:

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

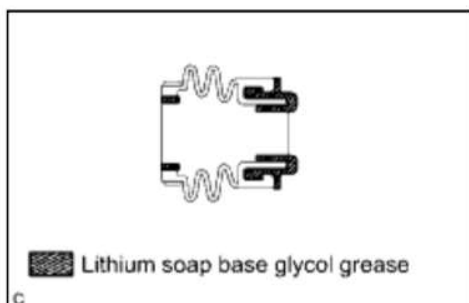
2. INSTALL REAR DISC BRAKE CYLINDER MOUNTING



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

Torque: 63 N·m (642 kgf·cm, 46ft·lbf)

3. INSTALL REAR DISC BRAKE BUSHING DUST BOOT

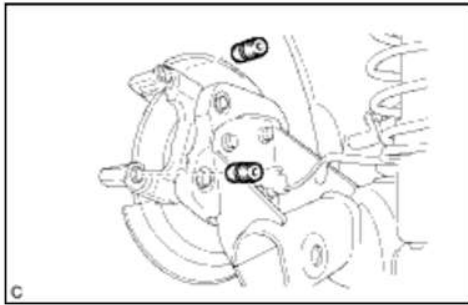


- (a) Apply a light layer of lithium soap base glycol grease to the entire circumference of 2 new rear disc brake bushing dust boots.

HINT:

Apply at least 0.3 g (0.01 oz.) of lithium soap base glycol grease to each rear disc brake bushing dust boot.

- (b) Install the 2 rear disc brake bushing dust boots to the rear

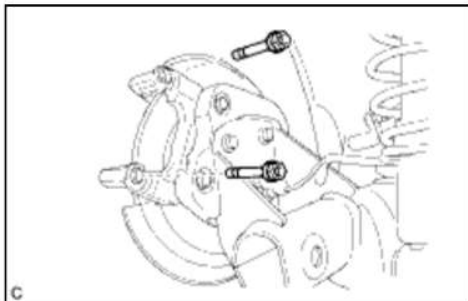


disc brake cylinder mounting.

4. INSTALL REAR DISC BRAKE PAD GUIDE PIN



(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.



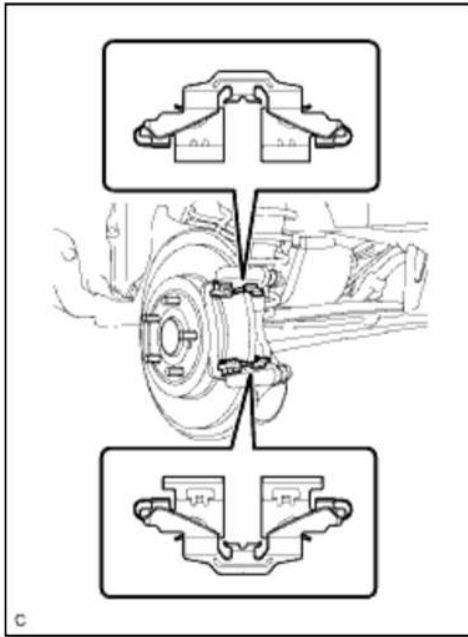
(b) Install the 2 rear disc brake pad guide pins to the rear disc brake cylinder mounting.

5. INSTALL REAR DISC BRAKE PAD SUPPORT PLATE

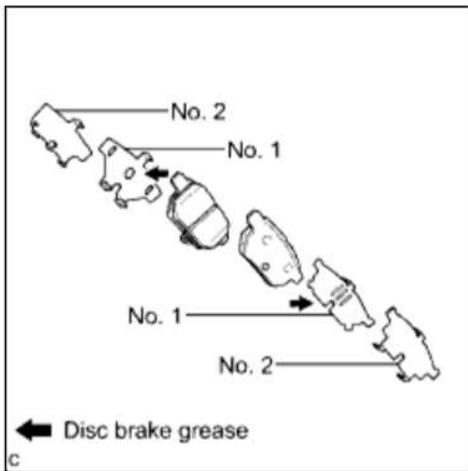
(a) Install the 2 rear disc brake pad support plates to the rear disc brake cylinder mounting.

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



(a) Apply disc brake grease to the 2 No. 1 anti-squeal shims.

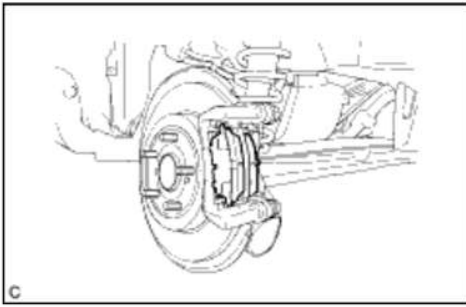
(b) Install the No. 1 anti-squeal shim and No. 2 anti-squeal shim to each brake pad.

NOTICE:

- 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.

7. INSTALL REAR DISC BRAKE PAD

(a) Install the 2 rear disc brake pads to the rear disc brake

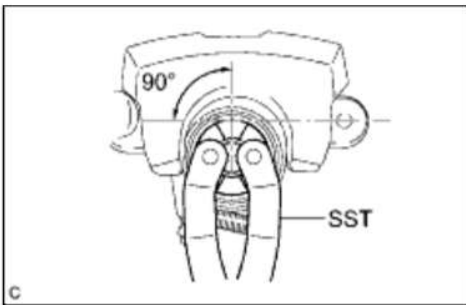


cylinder mounting.

NOTICE:

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

8. INSTALL REAR DISC BRAKE CYLINDER ASSEMBLY



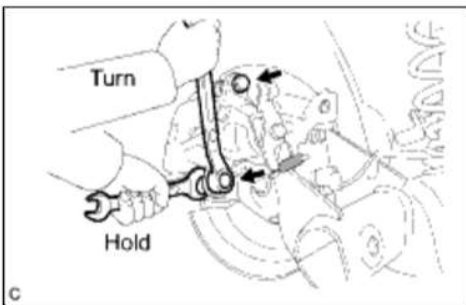
- (a) To compensate for pad wear when reusing the pad, use SST to push and turn the piston (LH side: counterclockwise, RH side: clockwise) to the position where the protrusion on the pad lines up properly with the piston groove.

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 slide pin, and install the rear disc brake cylinder assembly to the rear disc brake cylinder mounting with the 2 bolts.

Torque: 35 N·m (357 kgf·cm, 26ft·lbf)

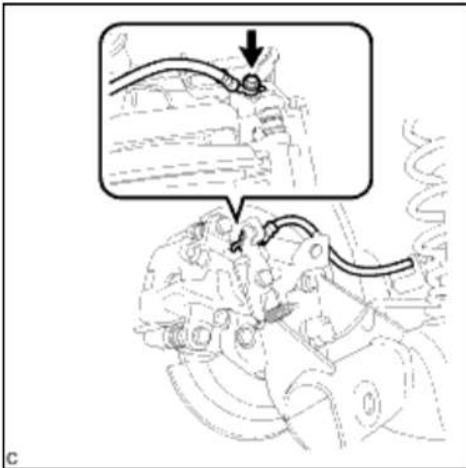
9. CONNECT REAR BRAKE FLEXIBLE HOSE

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

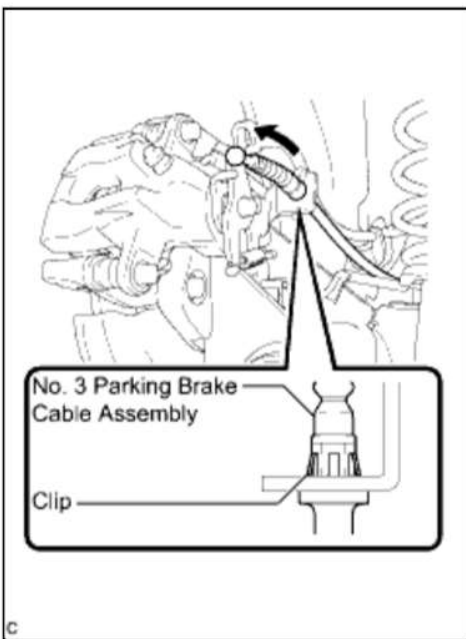
Torque: 29 N·m (296 kgf·cm, 21ft·lbf)

HINT:

Install the flexible hose lock securely into the lock hole in the disc brake cylinder.



10. CONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY

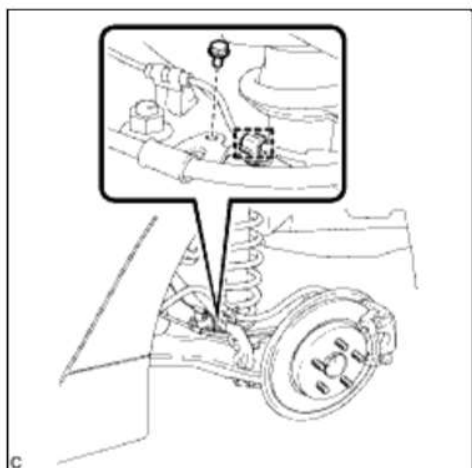
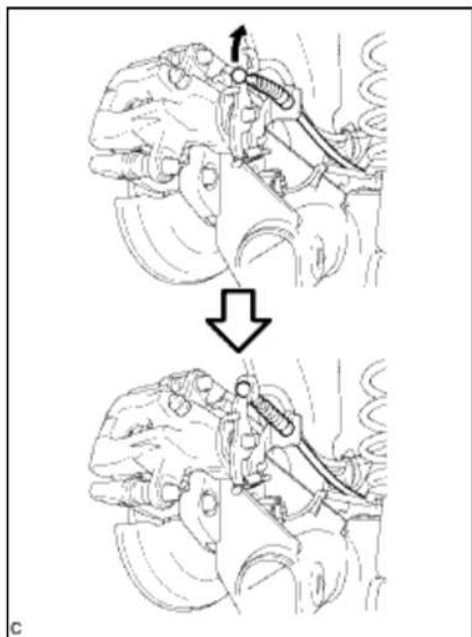


- (a) Install the No. 3 parking brake cable assembly to the rear disc brake cylinder assembly LH.

HINT:

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

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



(c) Install the bolt.

Torque: 6.0 N·m (61 kgf·cm, 53in·lbf)

(d) Engage the clamp to the No. 3 parking brake cable assembly.

11. INSTALL PARKING BRAKE LEVER PROTECTOR INFO

12. FILL RESERVOIR WITH BRAKE FLUID INFO

13. BLEED BRAKE LINE INFO

14. INSPECT FOR BRAKE FLUID LEAK

15. INSPECT FLUID LEVEL INFO

16. ADJUST PARKING BRAKE LEVER TRAVEL INFO

17. INSPECT REAR DISC BRAKE CYLINDER OPERATION LEVER AND STOPPER CLEARANCE

INFO

18. INSTALL REAR WHEEL

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

19. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY **20. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Manual Transaxle)** **21. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Automatic Transaxle)** **22. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Manual Transaxle)** **23. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Automatic Transaxle)** **24. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH** **25. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH** 

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001E9H017X
Title: BRAKE (REAR): REAR BRAKE (for Disc Type): REASSEMBLY (2010 Corolla)		

REASSEMBLY

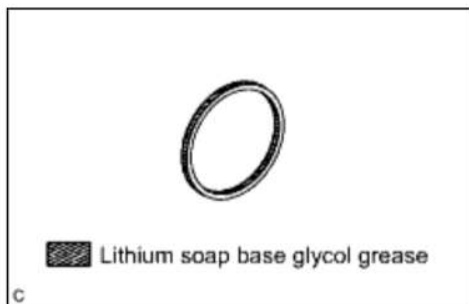
1. TEMPORARILY TIGHTEN REAR DISC BRAKE BLEEDER PLUG

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



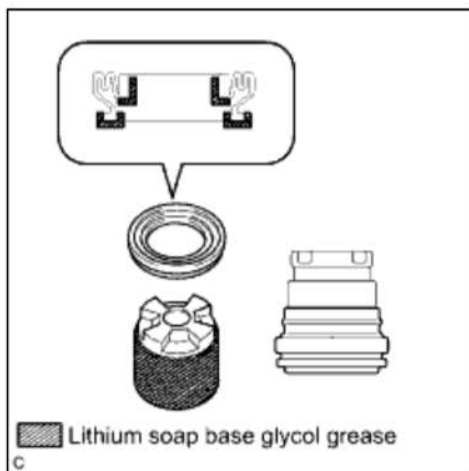
(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of a new piston seal.

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

NOTICE:

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

4. INSTALL CYLINDER BOOT

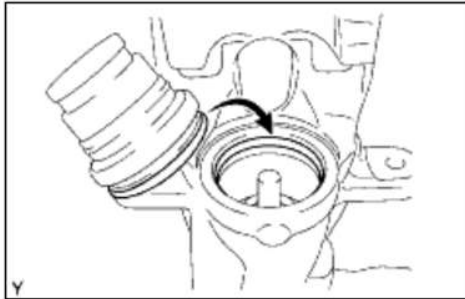


(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of a new cylinder boot.

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

NOTICE:

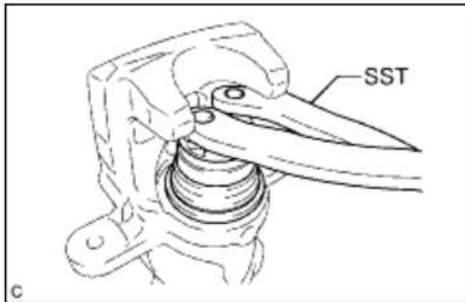
Do not install the cylinder boot after installing the piston into the disc brake cylinder.

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.

NOTICE:

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



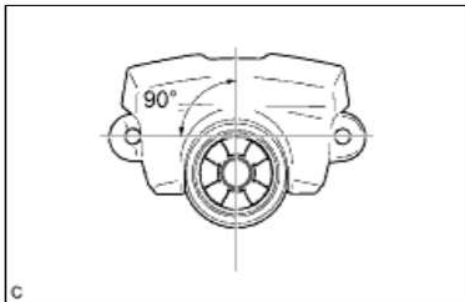
- (b) Using SST, screw the piston to the end by turning it clockwise as far as possible.

SST: 09960-10010

09963-00400

NOTICE:

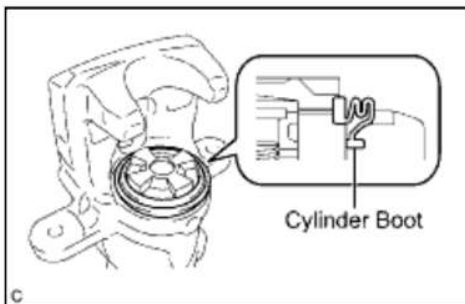
- Securely install the cylinder boot to the groove of the piston.
- Do not damage the piston or cylinder boot.



- (c) Using SST, slowly turn the piston counterclockwise until the piston groove is positioned as shown in the illustration.

HINT:

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



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

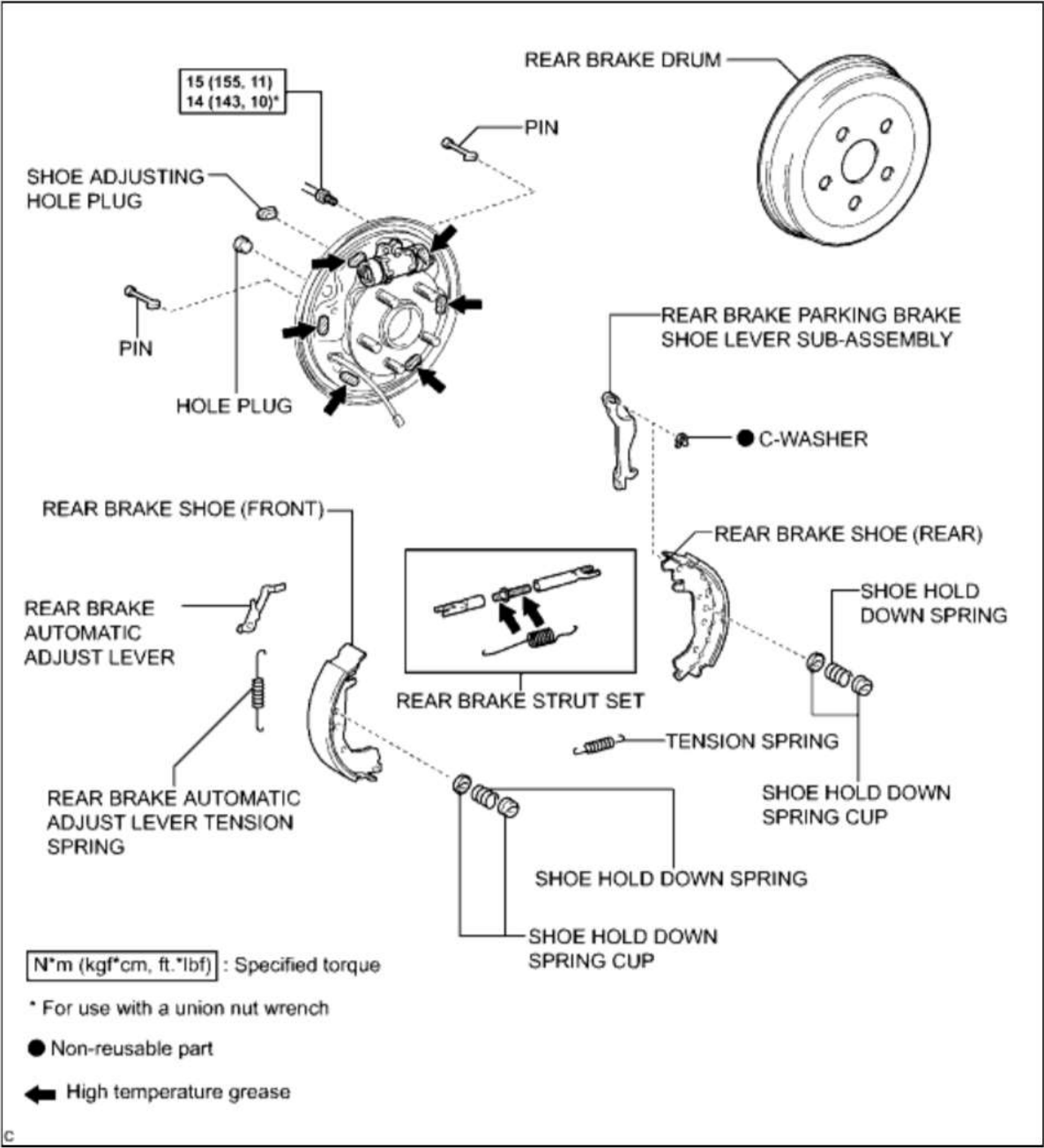


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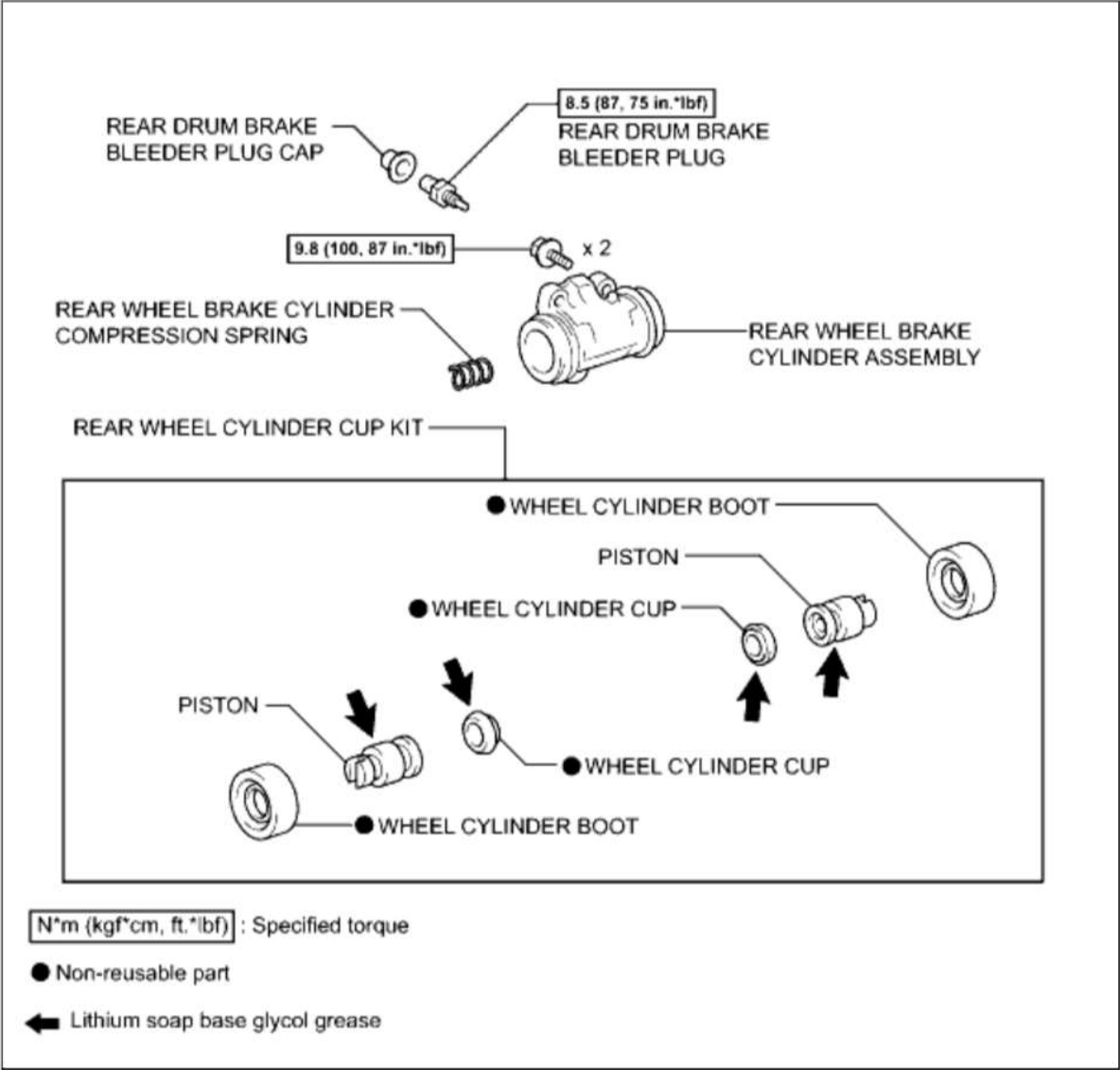
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002QVW00CX
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): COMPONENTS (2010 Corolla)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002QVX00DX
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): REMOVAL (2010 Corolla)		

REMOVAL

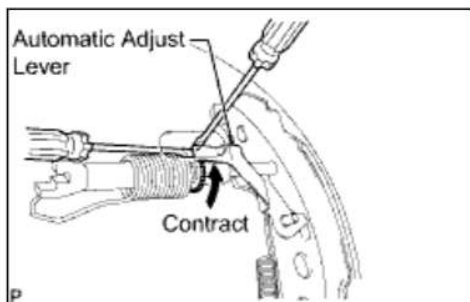
HINT:

- Use the same procedure for the LH side and RH side.
- The following procedure listed is for the LH side.
- The rear wheel brake cylinder assemblies can be disassembled and inspected with the rear wheel brake cylinder assemblies installed to the backing plate. It is not necessary to remove the rear wheel brake cylinder assemblies from the backing plates except when the rear wheel brake cylinder assemblies should be replaced.

1. REMOVE REAR WHEEL

2. REMOVE REAR BRAKE DRUM

- (a) Release the parking brake and remove the rear brake drum.

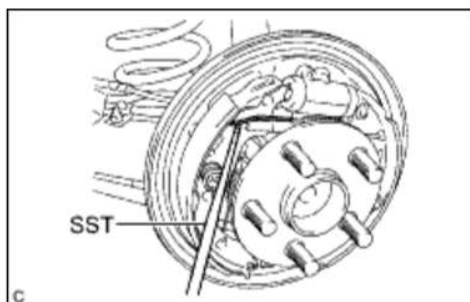


HINT:

If the rear brake drum cannot be removed easily, perform the following procedure.

- (1) Remove the shoe adjusting hole plug and insert a screwdriver through the hole into the backing plate, and hold the automatic adjust lever away from the adjuster.
- (2) Using another screwdriver, contract the brake shoe by turning the adjusting bolt.

3. REMOVE REAR BRAKE SHOE (for Front Side)



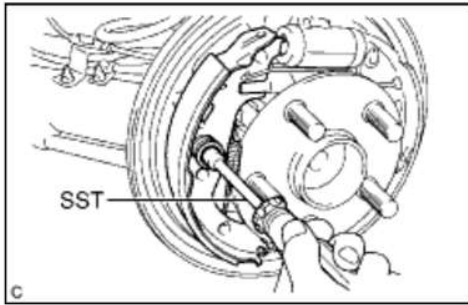
- (a) Using SST, separate the shoe return spring from the rear brake shoe.

SST: 09921-00010

NOTICE:

Do not damage the wheel cylinder boot.

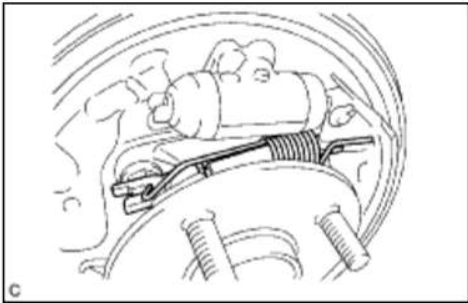
- (b) Using SST, remove the 2 shoe hold down spring cups, shoe hold down spring, pin and rear brake shoe.



SST: 09718-00011

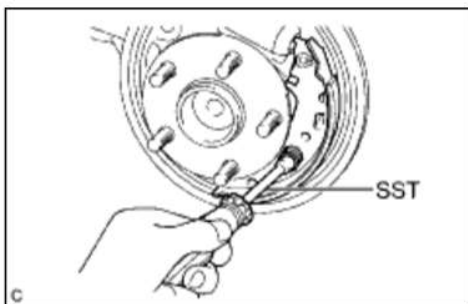
(c) Remove the tension spring.

4. REMOVE REAR BRAKE STRUT SET



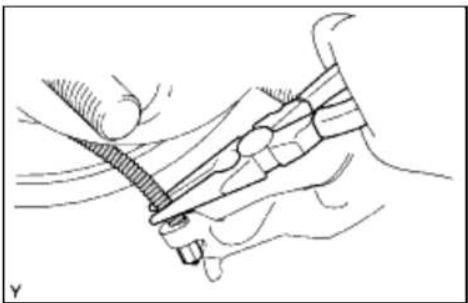
(a) Remove the shoe return spring from the rear brake shoe and remove the rear brake shoe strut set.

5. REMOVE REAR BRAKE SHOE (for Rear Side)



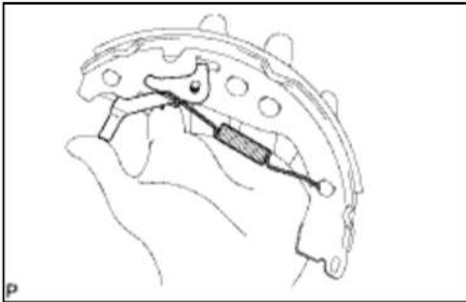
(a) Using SST, remove the 2 shoe hold down spring cups, shoe hold down spring, pin and rear brake shoe.

SST: 09718-00011



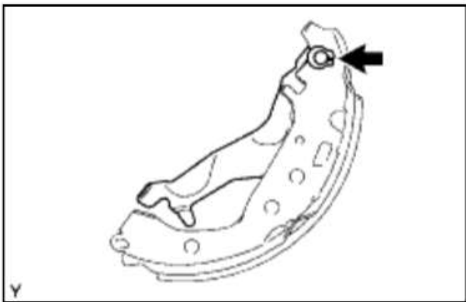
(b) Using needle-nose pliers, separate the parking brake cable.

6. REMOVE REAR BRAKE AUTOMATIC ADJUST LEVER



- (a) Remove the rear brake automatic adjust lever tension spring and rear brake automatic adjust lever.

7. REMOVE REAR BRAKE PARKING BRAKE SHOE LEVER SUB-ASSEMBLY



- (a) Using a screwdriver, remove the C-washer and rear brake parking brake shoe lever sub-assembly.

8. DRAIN BRAKE FLUID

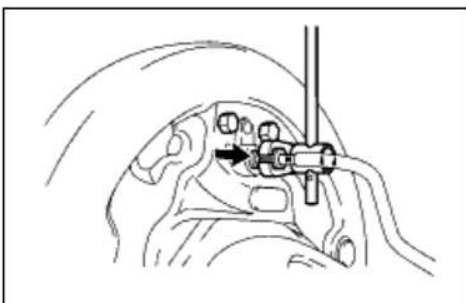
NOTICE:

Immediately wash off any brake fluid that comes into contact with any painted surfaces.

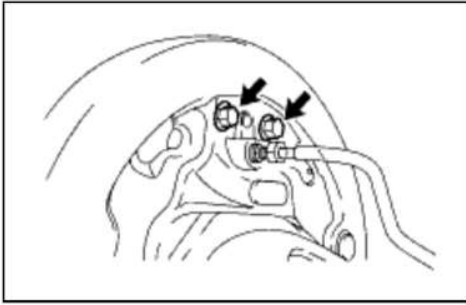
9. REMOVE REAR DRUM BRAKE BLEEDER PLUG CAP

10. REMOVE REAR DRUM BRAKE BLEEDER PLUG

11. REMOVE REAR WHEEL BRAKE CYLINDER ASSEMBLY



- (a) Using a union nut wrench (10 mm), disconnect the brake line from the rear brake wheel cylinder assembly.



(b) Remove the 2 bolts and rear wheel brake cylinder assembly from the backing plate.

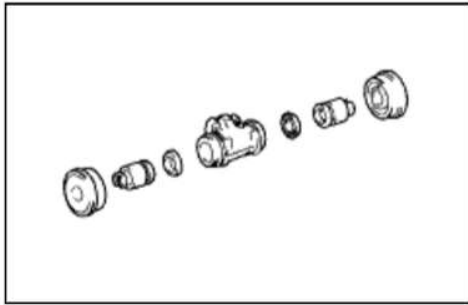


TOYOTA

Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002QVY00CX
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): DISASSEMBLY (2010 Corolla)		

DISASSEMBLY

1. REMOVE REAR WHEEL CYLINDER CUP KIT



(a) Remove the 2 wheel cylinder boots from the rear wheel brake cylinder assembly.

(b) Remove the 2 pistons.

(c) Remove the wheel cylinder cup from each piston.

2. REMOVE REAR WHEEL BRAKE CYLINDER COMPRESSION SPRING

(a) Remove the rear wheel brake cylinder compression spring from the rear brake wheel cylinder assembly.



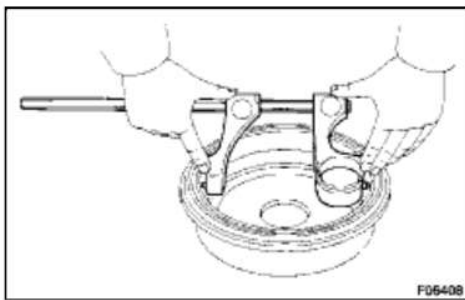
Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000V6G024X
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): INSPECTION (2010 Corolla)		

INSPECTION

1. INSPECT BRAKE CYLINDER AND PISTON

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

2. INSPECT BRAKE DRUM INSIDE DIAMETER



- (a) Using a brake drum gauge or an equivalent tool, measure the inside diameter of the drum.

Standard inside diameter:

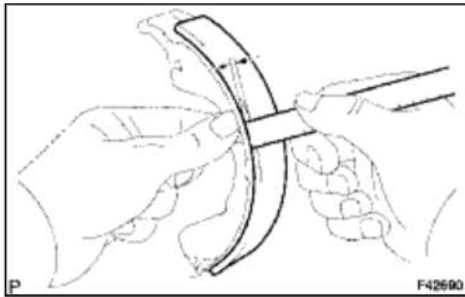
228.6 mm (9.00 in.)

Maximum inside diameter:

229.6 mm (9.04 in.)

If the inside diameter is more than the maximum, replace the drum.

3. INSPECT REAR BRAKE SHOE LINING THICKNESS



- (a) Using a ruler, measure the thickness of the shoe lining.

Standard thickness:

5.0 mm (0.197 in.)

Minimum thickness:

1.0 mm (0.0394 in.)

If the lining thickness is less than the minimum, or if there is severe or uneven wear, replace the brake shoe.

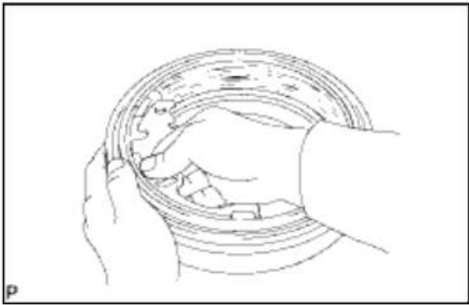
NOTICE:

Always replace both the right and left drum brake shoes together.

4. INSPECT BRAKE DRUM AND DRUM BRAKE SHOE LINING FOR PROPER CONTACT

- (a) Apply chalk to the inside surface of the drum, then grind down the brake shoe lining to fit the drum.

If the contact between the drum and the brake shoe lining is improper, repair it using a brake shoe grinder or replace the brake shoe.

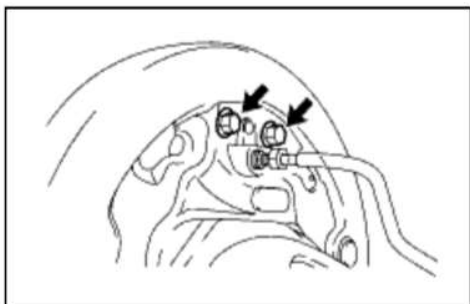


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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002QVV00GX
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): INSTALLATION (2010 Corolla)		

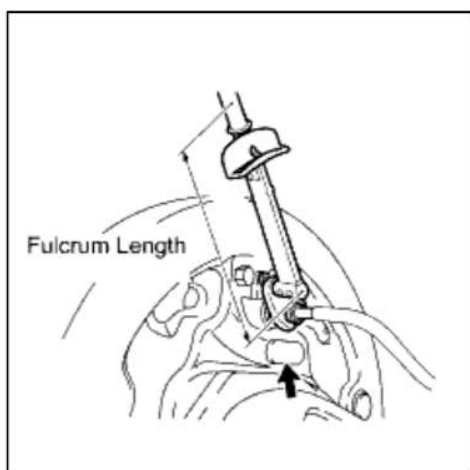
INSTALLATION

1. INSTALL REAR WHEEL BRAKE CYLINDER ASSEMBLY



- (a) Install the rear wheel brake cylinder assembly to the backing plate with the 2 bolts.

Torque: 9.8 N·m (100 kgf·cm, 87in·lbf)



- (b) Using a union nut wrench (10 mm), connect the brake line to the rear wheel brake cylinder assembly.

without a union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with a union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

2. TEMPORARILY TIGHTEN REAR DRUM BRAKE BLEEDER PLUG

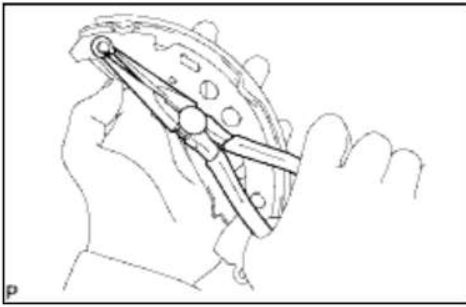
HINT:

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

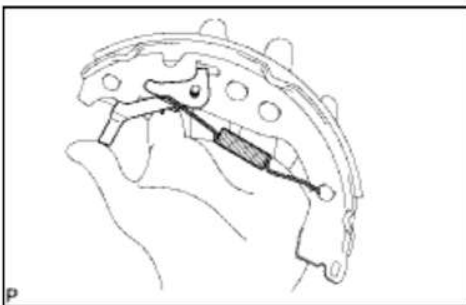
3. INSTALL REAR DRUM BRAKE BLEEDER PLUG CAP

4. INSTALL REAR BRAKE PARKING BRAKE SHOE LEVER SUB-ASSEMBLY

- (a) Using needle-nose pliers, install the rear brake parking brake shoe lever sub-assembly with a new C-washer.

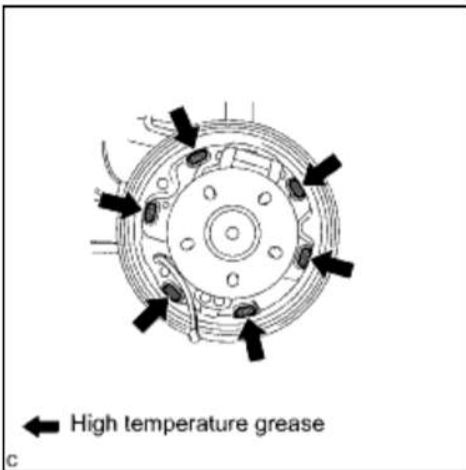


5. INSTALL REAR BRAKE AUTOMATIC ADJUST LEVER



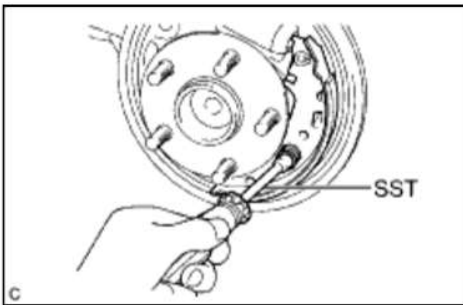
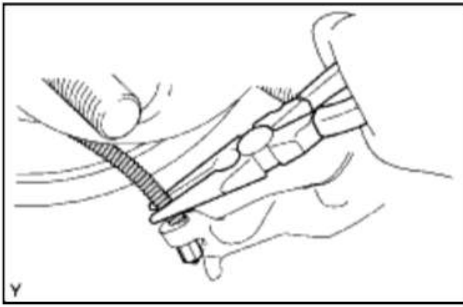
- (a) Install the rear brake automatic adjust lever and automatic adjust lever tension spring to the rear brake shoe (front).

6. INSTALL REAR BRAKE SHOE (for Rear Side)



- (a) Apply high temperature grease to the surface of the backing plate that contacts the shoes as shown in the illustration.

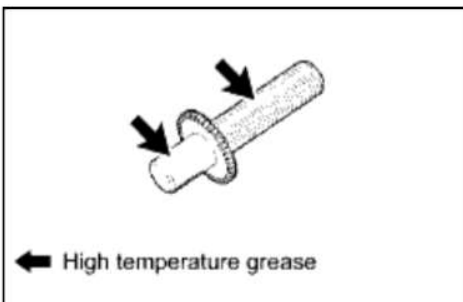
- (b) Using needle-nose pliers, install the parking brake cable to the rear brake parking brake shoe lever sub-assembly.



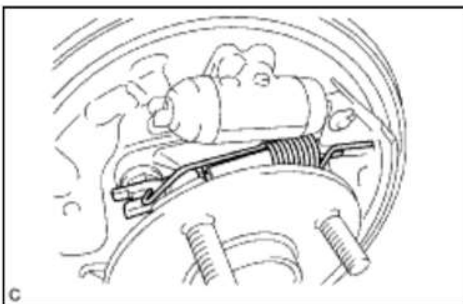
(c) Using SST, install the rear brake shoe, pin, shoe hold down spring and shoe hold down spring cup.

SST: 09718-00011

7. INSTALL REAR BRAKE STRUT SET

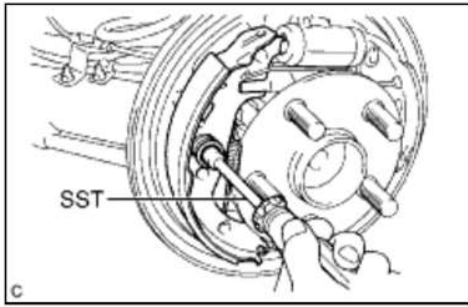


(a) Apply high temperature grease to the adjustment bolt.



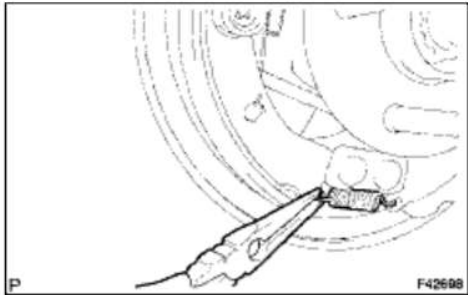
(b) Install the rear brake strut set to the rear brake shoe.

8. INSTALL REAR BRAKE SHOE (for Front Side)

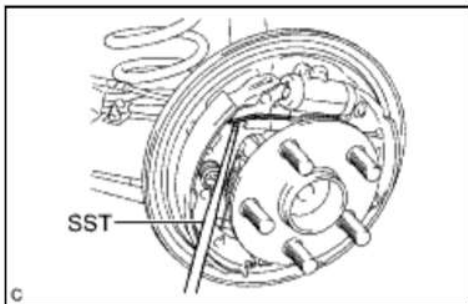


- (a) Using SST, install the rear brake shoe, pin, shoe hold down spring and shoe hold down spring cup.

SST: 09718-00011



- (b) Using needle-nose pliers, install the tension spring to the rear brake shoe.



- (c) Using SST, install the shoe return spring to the rear brake shoe.

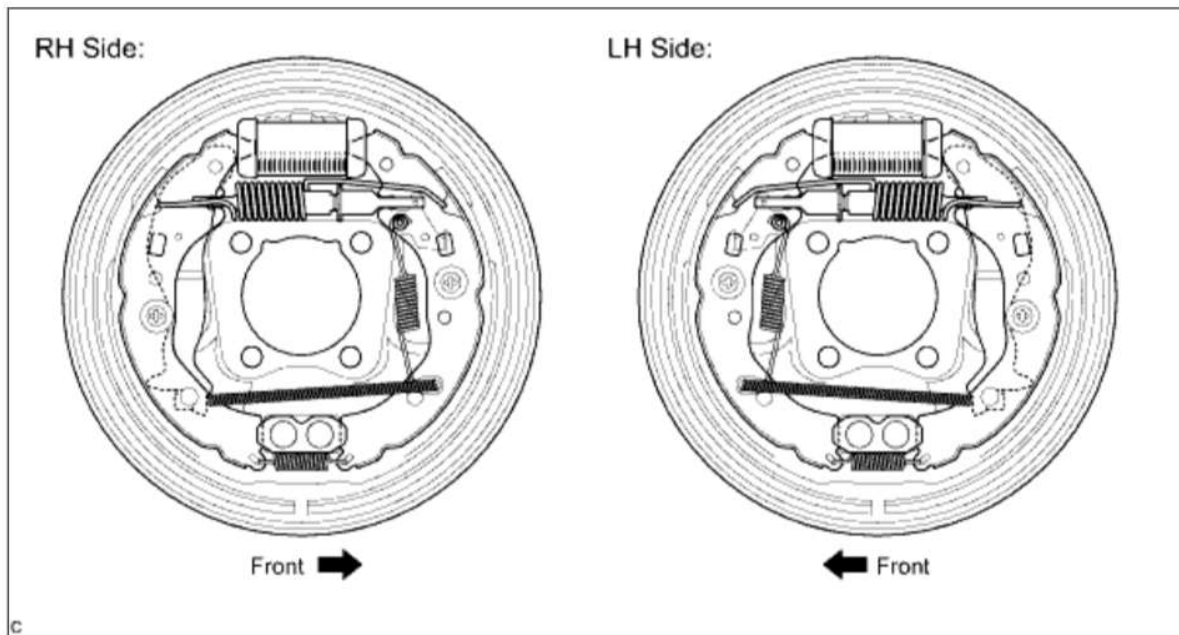
SST: 09921-00010

NOTICE:

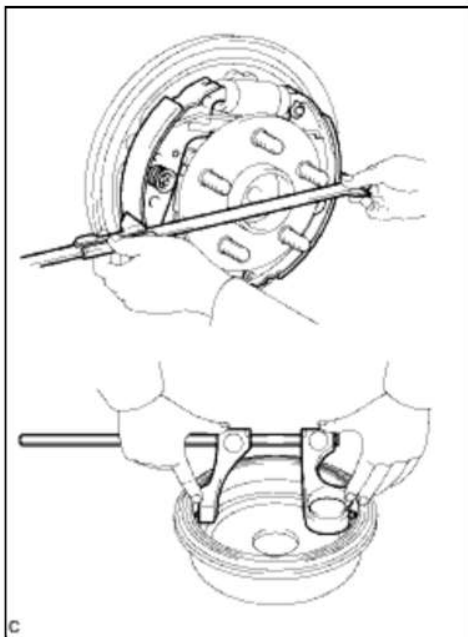
Do not damage the wheel cylinder boot.

9. INSPECT REAR DRUM BRAKE

- (a) Inspect that each part is installed properly as shown in the illustration.

**NOTICE:**

There should be no oil or grease adhering to the friction surfaces of the shoe lining or the drum.



- (b) Measure the brake drum inner diameter and the diameter of the brake shoes. Check that the difference between the diameters is equal to the specified shoe clearance.

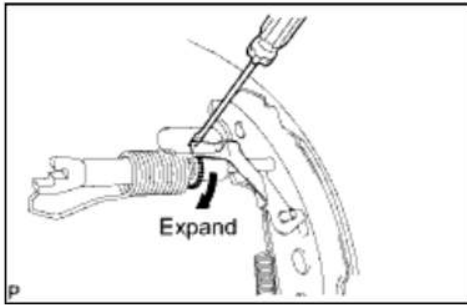
Shoe clearance:
0.6 mm (0.0236 in.)

10. INSTALL REAR BRAKE DRUM

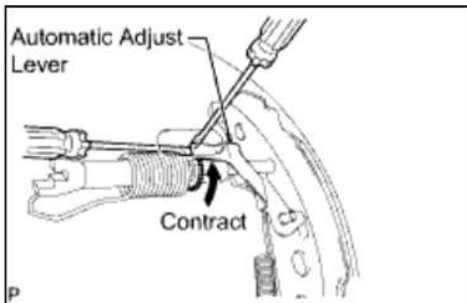
- (a) Install the rear brake drum.

11. ADJUST REAR DRUM BRAKE SHOE CLEARANCE

- (a) Temporarily install the 2 wheel nuts.



- (b) Remove the shoe adjusting hole plug, and turn the adjuster to expand the shoe until the drum locks.



- (c) Hold the automatic adjust lever away from the adjuster, and contract the brake shoe by turning the adjust bolt using another screwdriver until the drum can rotate smoothly.

Standard:
11 notches

- (d) Install the hole plug.

12. INSTALL REAR WHEEL

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

13. FILL RESERVOIR WITH BRAKE FLUID INFO

14. BLEED BRAKE LINE INFO

15. INSPECT FOR BRAKE FLUID LEAK

16. INSPECT FLUID LEVEL INFO

17. ADJUST PARKING BRAKE LEVER TRAVEL INFO



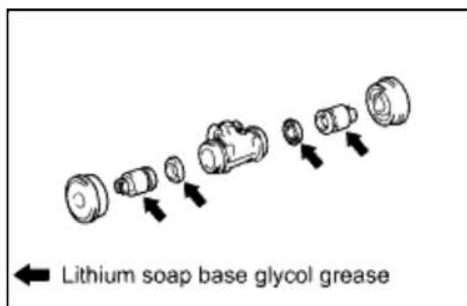
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002QW000CX
Title: BRAKE (REAR): REAR BRAKE (for Drum Type): REASSEMBLY (2010 Corolla)		

REASSEMBLY

1. INSTALL REAR WHEEL BRAKE CYLINDER COMPRESSION SPRING

- (a) Install the rear wheel brake cylinder compression spring to the rear wheel brake cylinder assembly.

2. INSTALL REAR WHEEL CYLINDER CUP KIT



- (a) Apply lithium soap base glycol grease to 2 new wheel cylinder cups and the 2 pistons.

- (b) Install the 2 wheel cylinder cups to each piston.
(c) Install the 2 pistons to the wheel brake cylinder.
(d) Install 2 new wheel cylinder boots to the rear wheel brake cylinder assembly.



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