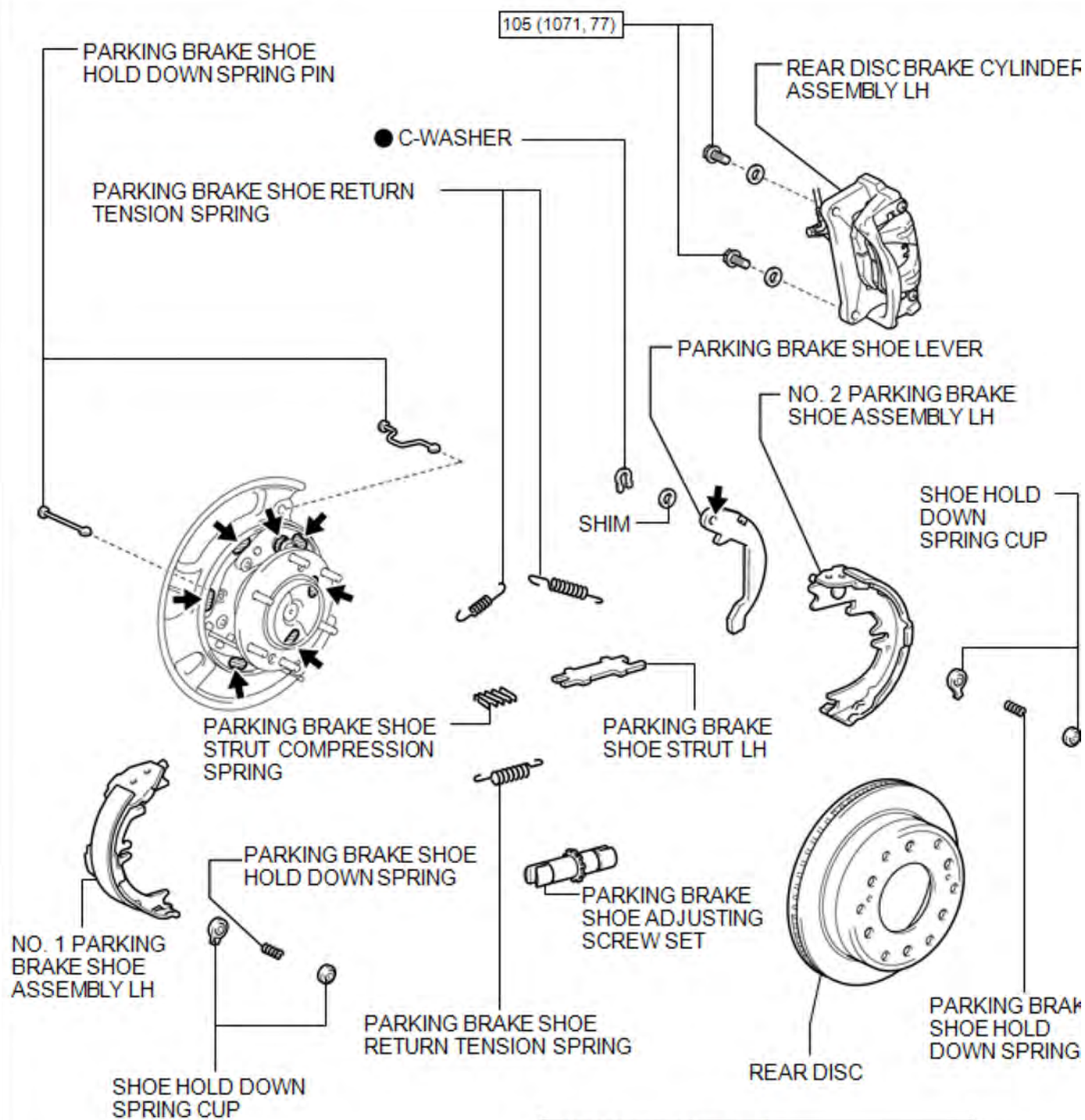


Factory Service Brakes

Saturday, October 14, 2023 4:13 AM

LUBRICANT

ITEM	CAPACITY	CLASSIFICATION
Brake fluid	-	SAE J1703 or FMVSS No. 116 DOT3



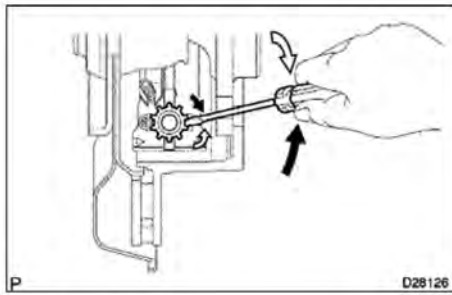
N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

← High-temperature grease

PARKING BRAKE SHOE ADJUSTING SCREW SET





Text in Illustration

	Shoe Adjuster Contracts
--	-------------------------

➡	
➡	Shoe Adjuster Expands

(f) Turn the shoe adjuster so that it contracts until the disc can rotate smoothly.

Standard:
8 notches

INSPECTION

PROCEDURE

1. CHECK PAD LINING THICKNESS

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

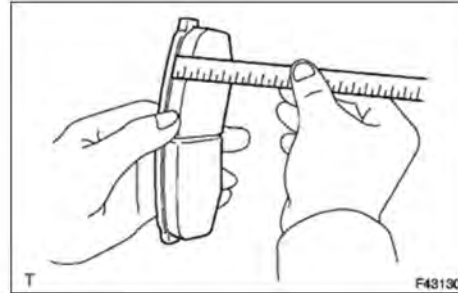
Standard thickness:

10.0 mm (0.394 in.)

Minimum thickness:

1.0 mm (0.0394 in.)

If the pad lining thickness is less than the minimum, replace the pad.



Page 1194

PROCEDURE

1. INSTALL REAR DISC

(a) Align the matchmarks and install the rear disc.

HINT:

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

2. INSTALL REAR DISC BRAKE BUSH DUST BOOT

(a) Apply a light layer of lithium soap base glycol grease to the entire circumference of a new rear disc brake bush dust boot where it contacts the rear disc brake cylinder mounting, and the entire inner circumference of both ends.

Text in Illustration

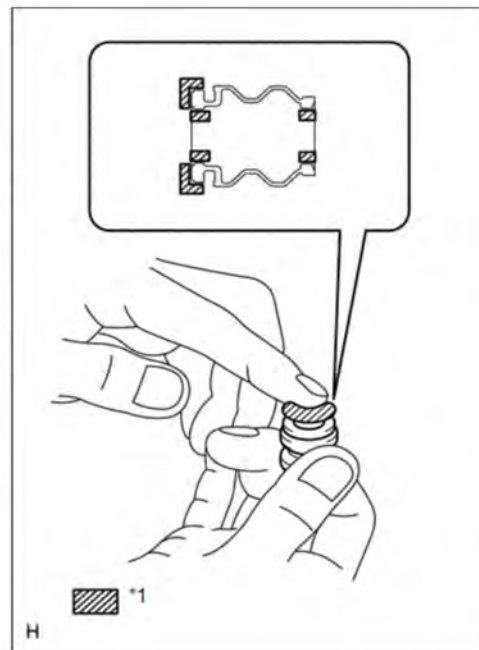
*1	Lithium soap base glycol grease
----	---------------------------------

NOTICE:

Apply a sufficient amount of lithium soap base glycol grease to the entire circumference of the rear disc brake bush dust boot and rear disc brake cylinder mounting contact surfaces.

HINT:

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



(b) Install the rear disc brake bush dust boot to the rear disc brake cylinder mounting.

3. INSTALL REAR DISC BRAKE CYLINDER SLIDE BUSH

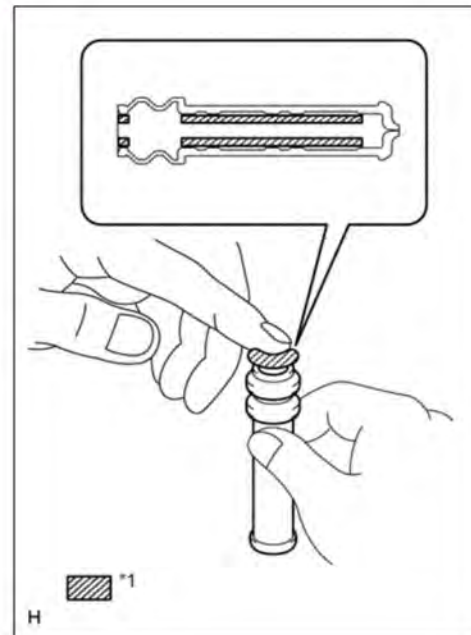
- (a) Apply a light coat of lithium soap base glycol grease to the rear disc brake cylinder slide bush.

Text in Illustration

*1	Lithium soap base glycol grease
----	---------------------------------

HINT:

Apply at least 0.8 g (0.03 oz.) of lithium soap base glycol grease to the rear disc brake cylinder slide bush.

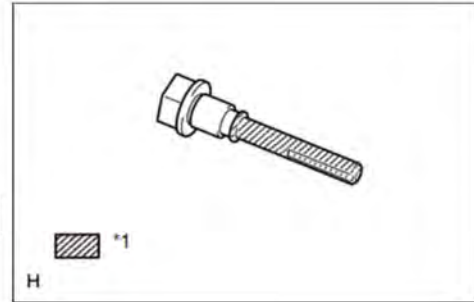


(b) Install the rear disc brake cylinder slide bush to the rear disc brake cylinder mounting.

(c) Apply a light coat of lithium soap base glycol grease to the cylinder slide pin, insert it into the rear disc brake cylinder slide bush in order to properly grease the parts, and then remove it.

Text in Illustration

*1	Lithium soap base glycol grease
----	---------------------------------

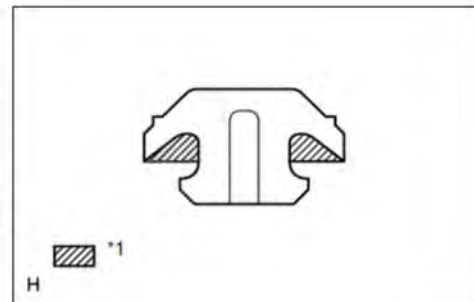


4. INSTALL REAR DISC BRAKE CYLINDER HOLE PLUG

(a) Apply a light coat of lithium soap base glycol grease to a new rear disc brake cylinder hole plug.

Text in Illustration

*1	Lithium soap base glycol grease
----	---------------------------------



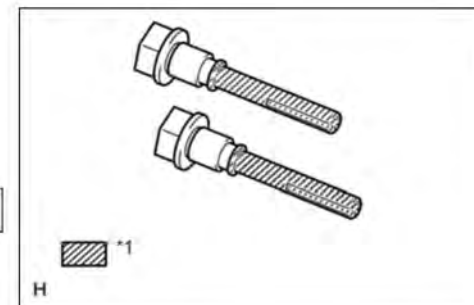
(b) Install the rear disc brake cylinder hole plug to the rear disc brake cylinder mounting.

11. INSTALL REAR DISC BRAKE CYLINDER ASSEMBLY LH

(a) Apply a light coat of lithium soap base glycol grease to the sliding surfaces of the rear disc brake cylinder slide pins.

Text in Illustration

*1	Lithium soap base glycol grease
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(b) Install the rear disc brake cylinder with the 2 rear disc brake cylinder slide pins.

Torque:

88 N·m {900 kgf·cm, 65 ft·lbf}

Last Modified: 03-17-2020

6.10:8.0.50

Doc ID: RM100000000RUCK

Model Year Start: 2016

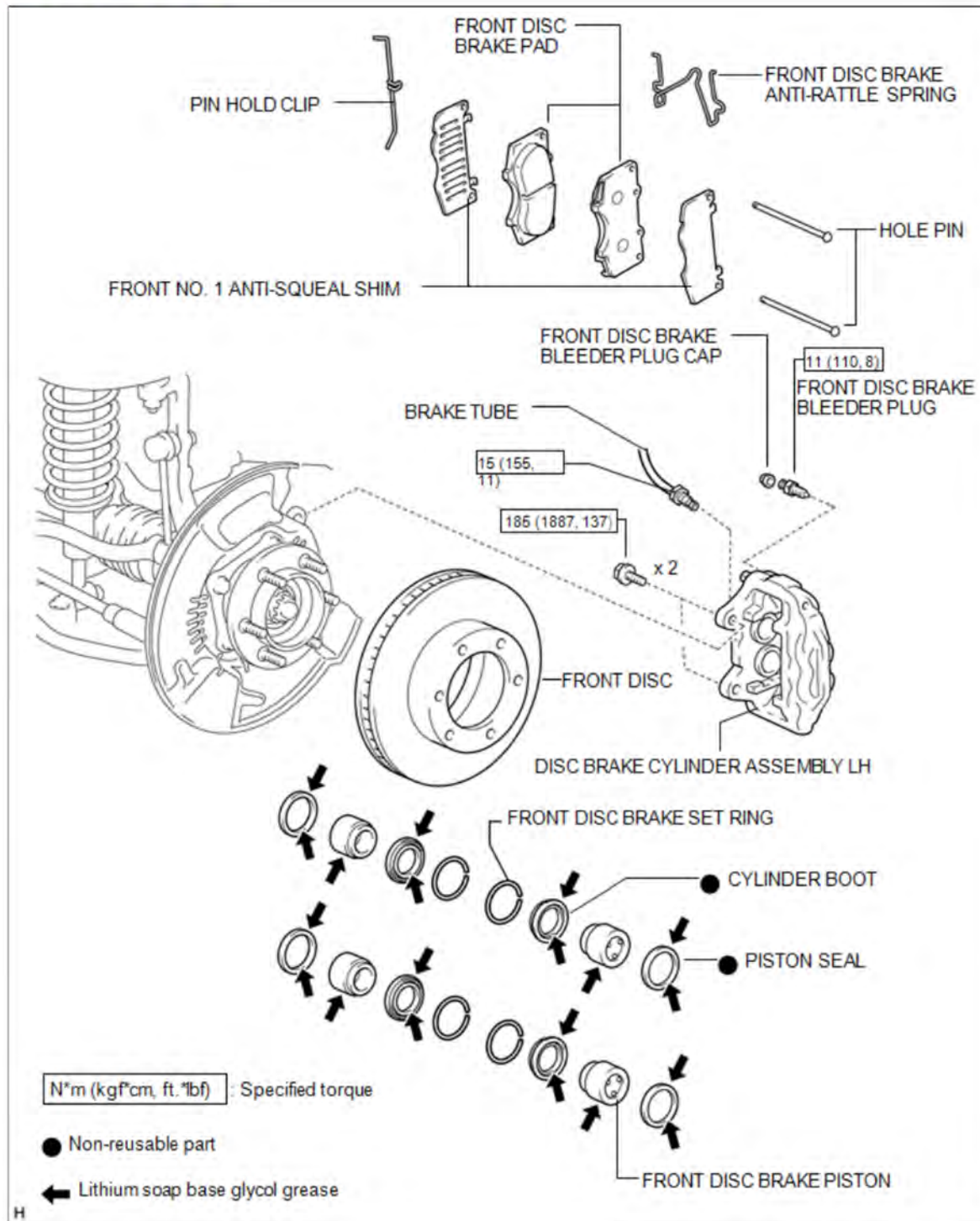
Model: 4Runner

Prod Date Range: [08/2015 -]

Title: BRAKE (FRONT): FRONT BRAKE: COMPONENTS; 2016 - 2020 MY 4Runner [08/2015 -]

COMPONENTS

ILLUSTRATION



INSPECTION

PROCEDURE

1. CHECK BRAKE CYLINDER AND PISTON

(a) Check the cylinder bore and piston for rust or scoring.

If necessary, replace the disc brake cylinder assembly.

2. CHECK PAD LINING THICKNESS

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

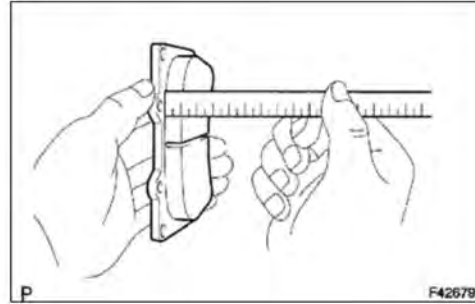
Standard thickness:

11.3 mm (0.445 in.)

Minimum thickness:

1.0 mm (0.0394 in.)

If the pad lining thickness is less than the minimum, replace the pad.



Last Modified: 03-17-2020	6.10:8.0.50	Doc ID: RM100000000RUBD
Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: BRAKE SYSTEM (OTHER): BRAKE FLUID (for Hydraulic Brake Booster): ON-VEHICLE INSPECTION; 2016 - 2020 MY 4Runner [08/2015 -]		

ON-VEHICLE INSPECTION

CAUTION / NOTICE / HINT

NOTICE:

Water or deteriorated brake fluid. Sealed areas or brake fluid may deteriorate and lead to fluid leaks or decreased efficiency.

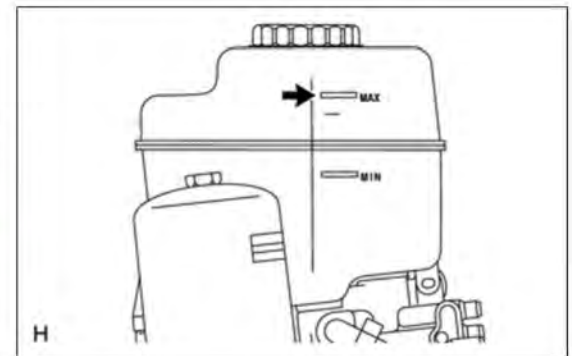
PROCEDURE

1. CHECK FLUID LEVEL IN RESERVOIR

- (a) Turn the engine switch off and fully depress the brake pedal 40 times or more to release the pressure in the accumulator.

HINT:

When the pressure in the accumulator is released, the pedal stroke will lengthen.



- (b) Adjust the fluid level so that it is at the MAX line.

HINT:

When the engine switch is turned on (IG), brake fluid is sent to the accumulator and the fluid level decreases by approximately 10 mm (0.394 in.) from the MAX line.

Brake fluid:

SAE J1703 or FMVSS NO. 116 DOT 3

Last Modified: 03-17-2020	6.10:8.0.50	Doc ID: RM100000000RUBC
Model Year Start: 2016	Model: 4Runner	Prod Date Range: [08/2015 -]
Title: BRAKE SYSTEM (OTHER): BRAKE FLUID (for Hydraulic Brake Booster): REPLACEMENT; 2016 - 2020 MY 4Runner [08/2015 -]		

REPLACEMENT

CAUTION / NOTICE / HINT

NOTICE:

- Perform brake fluid replacement with the shift lever in P and the parking brake set.
- Perform brake fluid replacement while adding fluid to maintain the fluid level between the MIN and MAX lines of the reservoir.
- As brake fluid may overflow when fluid is released from the brake actuator, do not leave the brake fluid can in the reservoir filler opening when adding brake fluid.
- If the brake pedal is depressed with the reservoir cap removed, brake fluid may overflow.
- Do not allow brake fluid to come into contact with any painted surface. If contact occurs, wash off the fluid immediately.
- When the brake fluid is replaced, DTCs may be stored. Therefore, after fluid replacement, always clear the DTCs and check that a normal system code is output.

PROCEDURE

1. REPLACE BRAKE FLUID

- Turn the engine switch on (IG).
- Remove the brake master cylinder reservoir filler cap assembly.
- Add brake fluid until the fluid level is between the MIN and MAX lines of the reservoir.
- While depressing the brake pedal, loosen the bleeder plug of the front disc brake cylinder RH, and then repeatedly depress the brake pedal.
- Repeatedly depress the brake pedal until the air is completely bled, and then tighten the bleeder plug while depressing the brake pedal.

Torque:

11 N·m {110 kgf·cm, 8 ft·lbf}

- Bleed the air from the bleeder plug of the front disc brake cylinder LH using the same procedure as for the RH side.
- With the brake pedal depressed, loosen the bleeder plug of the rear disc brake cylinder RH, continue to hold the brake pedal and allow brake fluid to be drained from the bleeder plug while the pump motor operates.

HINT:

- Air is bled as the pump motor operates while the brake pedal is being depressed
- Be sure to release the brake pedal to stop the motor after approximately 100 seconds of continuous operation.
- As brake fluid is continuously drained while the pump operates, it is not necessary to repeatedly depress the brake pedal.

- Tighten the bleeder plug, and then release the brake pedal.

Torque:

11 N·m {110 kgf·cm, 8 ft·lbf}

- Bleed the air from the bleeder plug of the rear disc brake cylinder LH using the same procedure as for the RH side.
- Turn the engine switch off (IG).
- Inspect for brake fluid leaks.
- Check and adjust the brake fluid level (See page [INFO](#)).
- Clear the DTCs (See page [INFO](#)).