Issue Date: September 9, 2024

Repair Instruction of
Rear Tire Replacement
DL800DE(DL800DERCM3/4)

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Workflow

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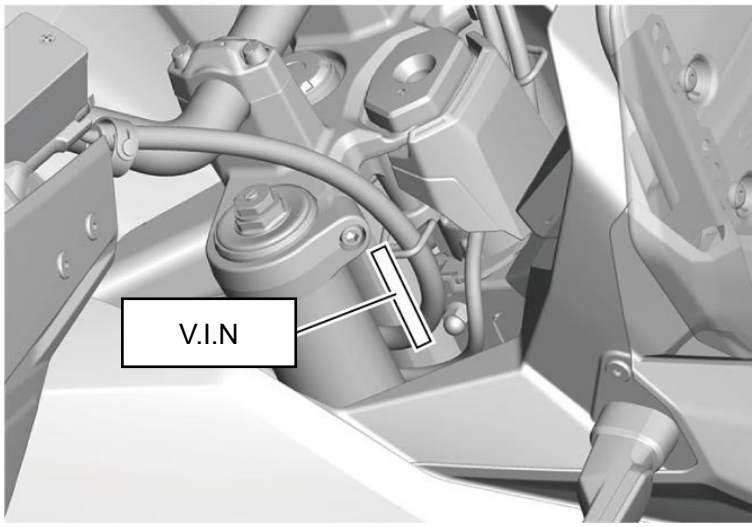
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1. Confirmation of Affected Vehicles

Check the Vehicle Identification Number (V.I.N.) if the vehicle is applicable unit to this replacement.

V.I.N.

V.I.N. Location···· The frame front right side



2. Affected V.I.N. Range

Affected V.I.N. range is shown as below.

NOTE

- **"#" indicates any check digit from 0 to 9 and X.**
- **NOT all vehicles in the below V.I.N. range are affected.**

Model	SPEC	V.I.N. Range		
DL800DERCM3/M4	E01	JS1EM12AZP7104259	-	JS1EM12AZR7102488
	E14	JS1EM12DZ07100004	-	JS1EM12DZ07100197
	E21	JS1EM12AZP7100060	--	JS1EM12AZR7102623
	E03	JS1EM12B#P7100019	-	JS1EM12B#R7100604
	E24	JS1EM12A#07100001	-	JS1EM12A#07100393
	E28	JS1EM12B#P7100022	-	JS1EM12B#R7100882
	E33	JS1EM12B#P7100025	-	JS1EM12B#R7100724
	E43	JS1EM12A#P7100001	-	JS1EM12A#R7100003
	E50	JS1EM1DE#R7100003	-	JS1EM1DE#R7100157
DL800DEUCM3/M4	E21	JS1EM22AZP7100002	-	JS1EM22AZR7100120

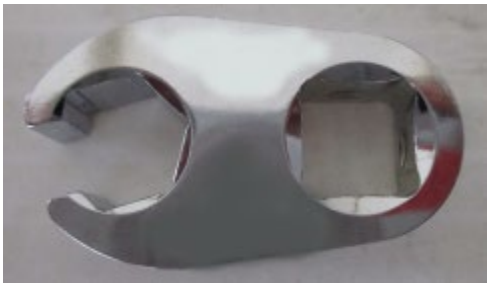
3. Countermeasure Operations

3-1. Required Tools

・General Tool

Tool Name	Size, Special Tool Number
Ratchet handle	
Socket wrench	8,12,32mm
Hexagon socket wrench	5mm
wrench	10,12mm
Torque wrench	2.5 N·m (0.25 kgf-m, 1.85 lbf-ft) to 100 N·m (10.2 kgf-m, 74.0 lbf-ft)
Crowfoot Wrench *1	12mm (22 N·m (2.2 kgf-m, 16.5 lbf-ft))
Air Gauge	
Thickness gauge	0.38-1.55mm(0.015 – 0.061 in)
Tire lubricant	
SUZUKI SILICONE GREASE or equivalent Silicone grease generally available in your market	(99000-25100)

*1 : Sample photo



NOTE

When a Crowfoot Wrench as shown in the figure is used, a difference occurs between the set value of the torque wrench and the actual torque. Set the torque value based on the effective length of the socket and wrench to be used.

Example)

Effective length of torque wrench: A mm

Effective length of flare nut socket: B mm

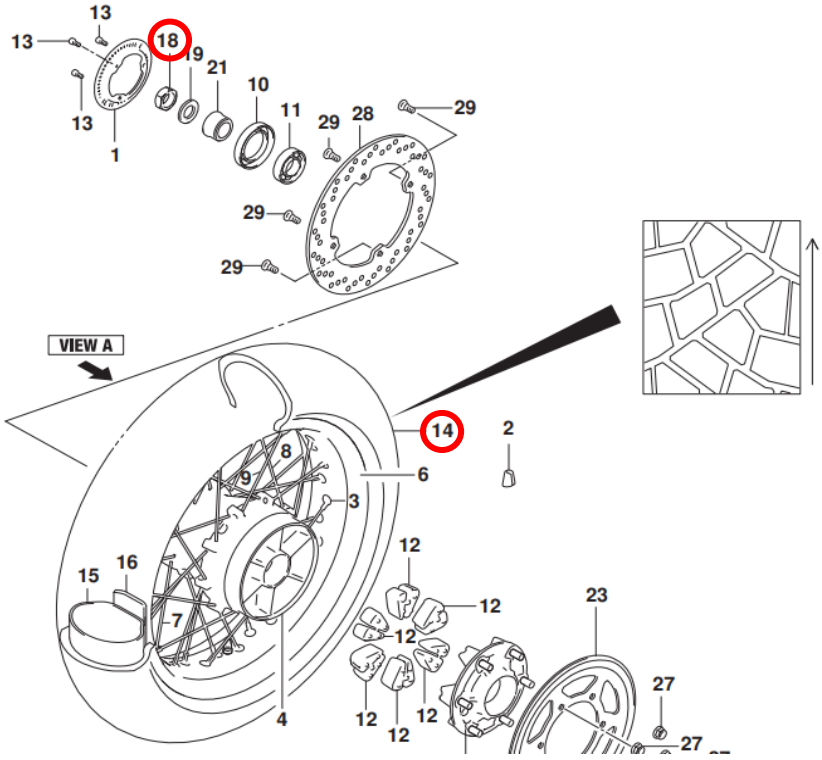
Specified torque: 22N·m (2.2 kgf-m, 16.5 lbf-ft)

In the above case, the set value is "22 × A ÷ (A + B)".

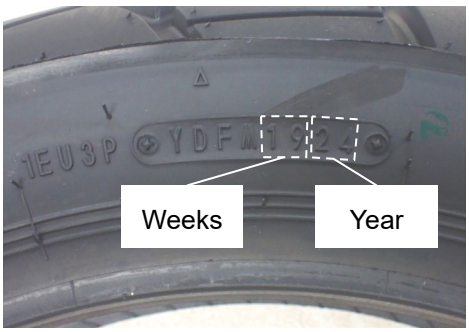
Make the torque wrench and flare nut socket straight.

3-2. Replacement Parts

Part Name	Part Number	Qty	Contents
TIRE SET, REAR	65110-25810-RX0	1	・ TIRE COMP, REAR (65110-25L30-RX0) ×1 … (14) ・ NUT, REAR AXLE (64721-13K00-RX0) ×1 … (18)

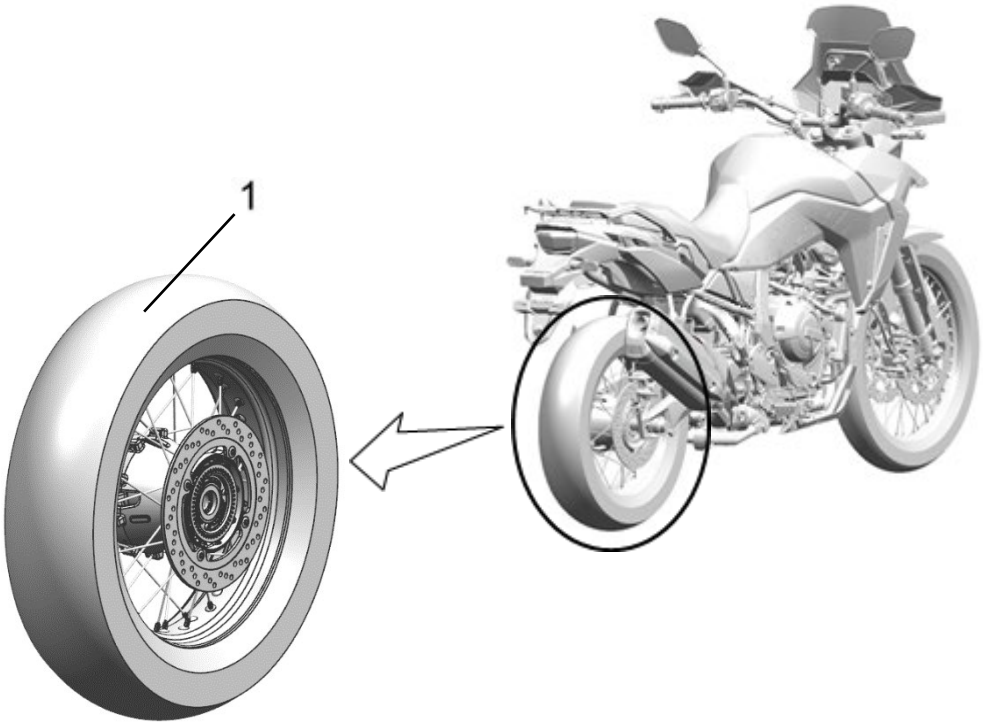


3-3. Identification of Countermeasure Parts

Existing Part	Countermeasure Part
65110-25L30	**65110-25L30-RX0**
Tire manufacturing serial earlier than 28 weeks of 2024	Tire manufacturing serial after 29 weeks of 2024
	

3-4. Countermeasure

Replace the rear tire (1).



Precautions

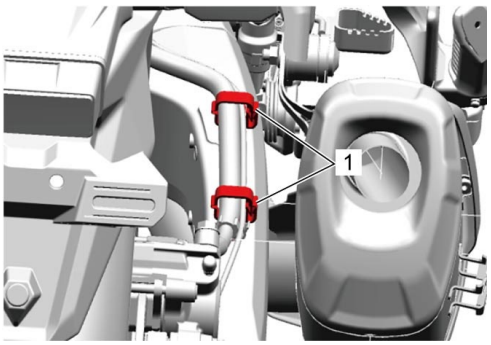
- To avoid getting burned, do not touch the engine and exhaust system until they have cooled.
- Before the repair work, wash dirt off from the vehicle so that removed parts are kept free from dust.
- When 2 or more persons work together, pay attention to the safety of each other.
- Replace the wheel when wheel runout exceed the service limit or if find damage such as distortion, crack, nick or scratch.
- After reassembling, check hose and herness are correctly routed
- When only the rear tire is replaced in a state where tread wear of the front tire progresses, Diagnostic Trouble Code C1728 may be displayed. Replace the front tire as necessary.

Refer to the service manual for the details not mentioned in the instructions.

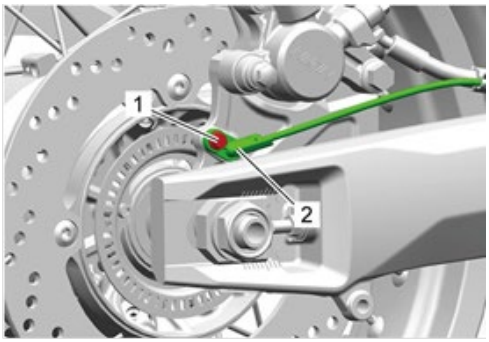
3-5. Work Procedure

3-5-1. Rear Wheel Assembly Removal

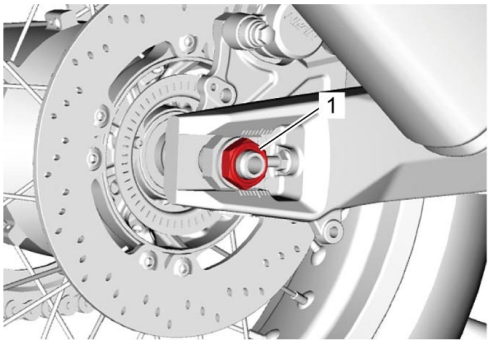
1) Release the rear brake hose guide (1).



2) Remove the rear wheel speed sensor bolt (1).
3) Remove the rear wheel speed sensor (2).



4) Loosen the axle nut (1).

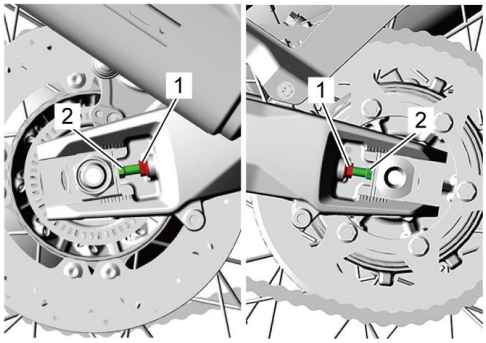


5) Raise the rear wheel off the ground and support the motorcycle with a jack or wooden block.

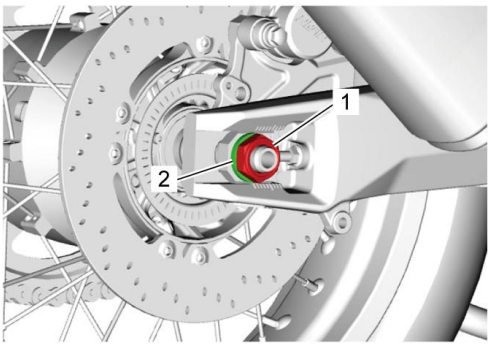
⚠ CAUTION

Make sure that the motorcycle is supported securely.

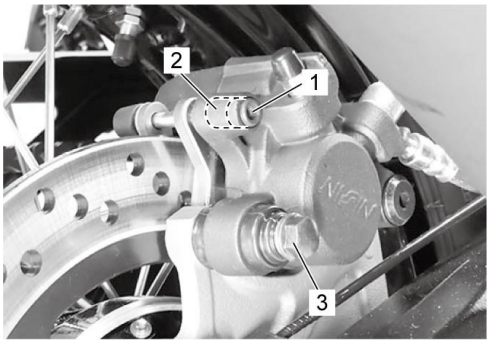
6) Loosen the left and right chain adjuster lock-nuts (1) and turn in the chain adjuster bolts (2).



7) Remove the axle nut (1) and washer (2).



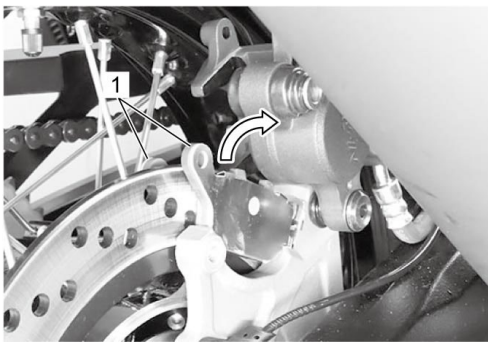
8) Remove the rear brake pad mounting pin plug (1) and rear brake pad mounting pin (2) from the brake caliper.
9) Remove the rear brake caliper mounting bolt (3) from the brake caliper.



10) Remove the brake pads (1) from the brake caliper bracket with the rear caliper pivoted up.

NOTE

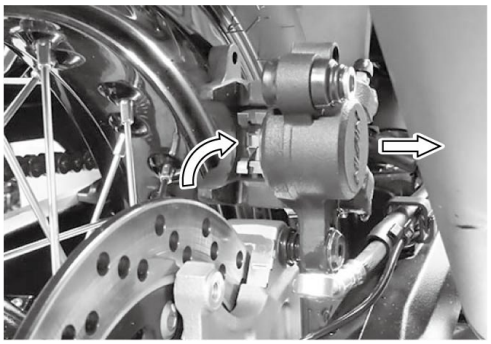
Do not operate the brake pedal while removing the brake pads.



11) Pivot the caliper up and remove the caliper from the caliper bracket.

NOTE

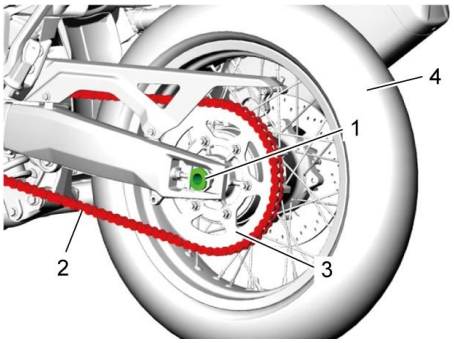
Do not operate the brake pedal until reassemble the brake caliper.



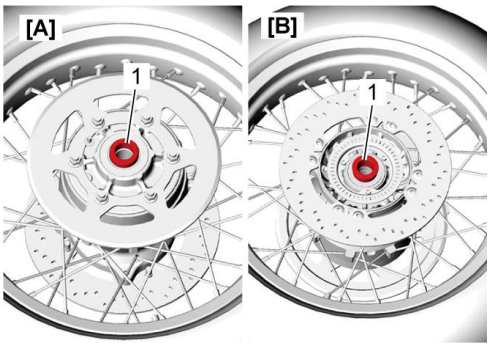
12) Protect the rear brake caliper with a rag.



13) Draw out the rear axle (1).
14) Remove the drive chain (2) from the rear wheel sprocket (3).
15) Remove the rear wheel (4) and brake caliper bracket.



16) Remove the spacers (1) from the rear wheel assembly.



[A] :	Left side
[B] :	Right side

3-5-2. Tire Removal and Installation

NOTICE

For removal and installation procedure of tire onto the wheel, follow the instructions given by the tire changer manufacturer.

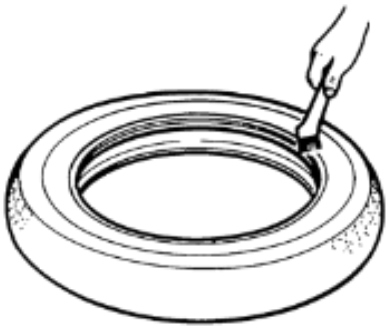
1) Release the air from the air valve.
2) Remove the tube and tire from the wheel.
3) Check the tube for any damage or air leaks. If any abnormalities are found, replace it with a new tube.
4) Wipe the wheel clean and check for the following points.
   - Distortion and crack.
   - Any flaws and scratches at the bead seating area.
   - Wheel rim run out.



5) Apply tire lubricant to the tire bead of the countermeasure product.

NOTICE

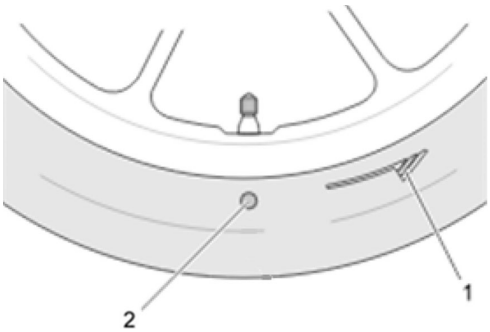
Do not use oil, grease or gasoline in place of tire bead lubricant.



6) Install the countermeasure tire and tube aligning the arrow (1) on the side wall with the direction of the wheel rotation.

NOTICE

Align the light point mark (2) on the tire side wall with the valve position.



7) Bounce the tire several times while rotating. This makes the tire bead expand outward to contact the wheel, thereby facilitating air inflation.

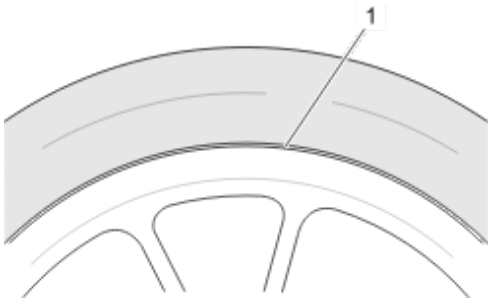
8) Inflate the tire.

⚠ WARNING

- **Do not stand over a tire being inflated. Tire bead may break when the bead snaps over rim's safety hump and cause serious personal injury.**
- **Do not inflate tires exceeding 400 kPa (4.0 kgf/cm^2, 57 psi). Over-inflation may cause the bead to break, which may cause serious personal injury.**

9) In this condition, check the "rim line" (1) cast on the tire side walls. The line must be equidistant from the wheel rim all around.

10) If the distance between the rim line (1) and wheel rim varies, this indicates that the bead is not properly seated. If this is the case, deflate the tire completely and unseat the bead for both sides. Coat the bead with lubricant and fit the tire again.



11) When the bead has been fitted properly, adjust the pressure to specification.

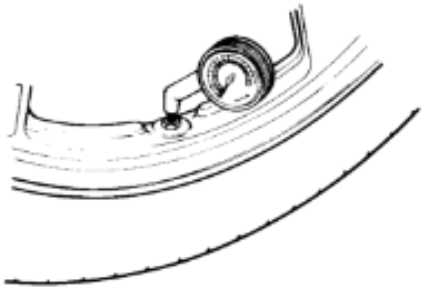
<u>Cold inflation tire pressure</u>

Solo riding

Rear [Standard]: 250 kPa (2.50 kgf/cm^2, 36 psi)

Dual riding

Rear [Standard]: 280 kPa (2.80 kgf/cm^2, 41 psi)

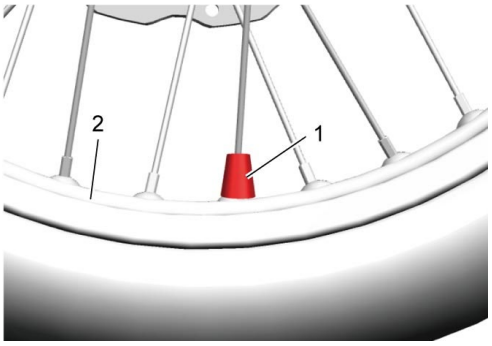


12) Check the wheel balance using the balancer and adjust the wheel balance if necessary.

NOTICE

For operating procedures, refer to the instructions supplied by the wheel balancer manufacturer.

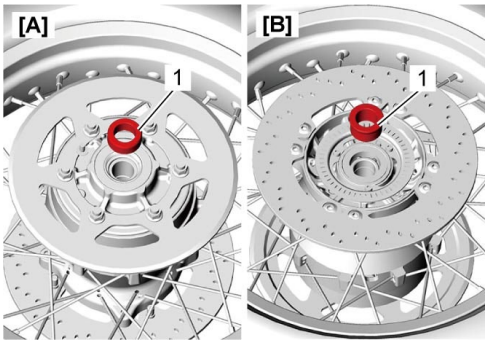
13) When installing the new balancer weight (1) to the wheel (2), set the balancer weight on wheel spoke.



14) Recheck the wheel balance.

3-5-3. Rear Wheel Assembly Installation

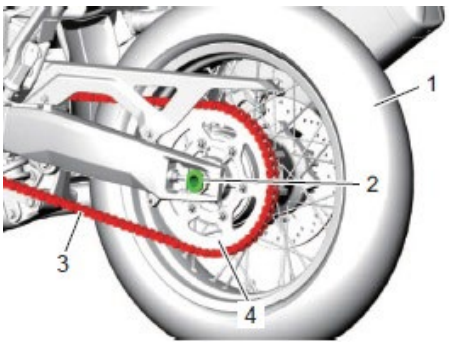
1) Install the spacers (1) to the front wheel assembly.



[A] :	Left side
[B] :	Right side

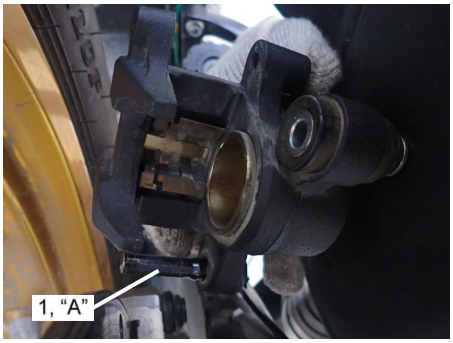
2) Remount the rear wheel (1) and brake caliper bracket and install the rear axle shaft (2).

3) Install the drive chain (3) to the drive chain sprocket (4).

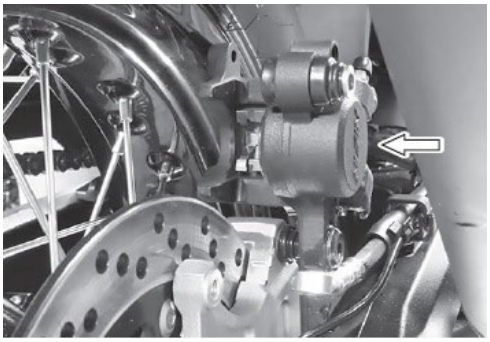


4) Remove the rag protecting the caliper.

5) Apply grease to the rear brake caliper sliding pin (1) .
"A" : Grease 99000–25100 (SUZUKI SILICONE GREASE)



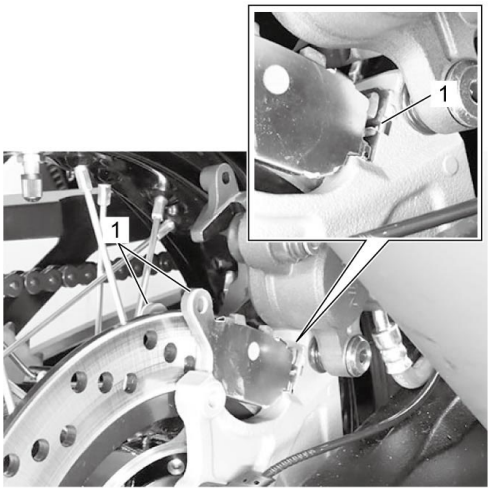
6) Install the rear brake caliper to the rear brake caliper bracket.



7) Install the brake pads.

NOTE

- **Pushing back the caliper piston into the caliper will facilitate installation of the brake pads. At the time, observe the reservoir tank level not to exceed the upper line.**
- **Make sure that the detent of the pad is seated onto the retainer (1) on the caliper bracket.**



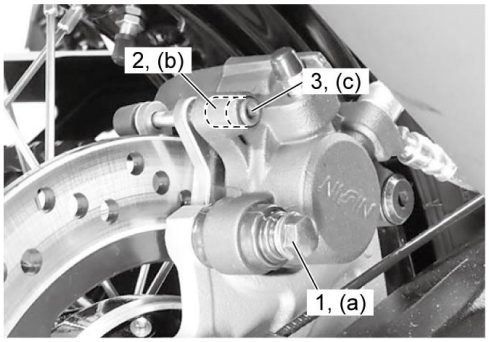
8) Tighten the rear brake caliper mounting bolt (1), rear brake pad mounting pin (2) and rear brake pad mounting pin plug (3) to the specified torque.

Tightening torque

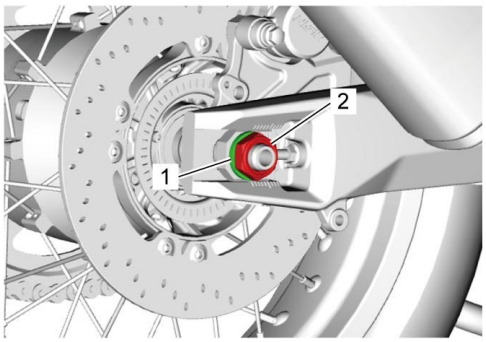
Rear brake caliper mounting bolt (a): 22 N·m (2.2 kgf-m, 16.5 lbf-ft)

Rear brake pad mounting pin (b): 17 N·m (1.7 kgf-m, 12.5 lbf-ft)

Rear brake pad mounting pin plug (c): 2.5 N·m (0.25 kgf-m, 1.85 lbf-ft)



9) Install the washer (1) and tighten the rear axle nut (2) temporarily.

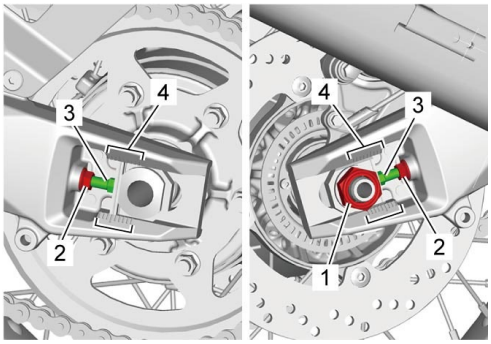


10) Place the motorcycle on the side stand.

11) Loosen or tighten both chain adjuster bolts (3) until there is slack “a” at the middle of the chain between the chain roller and rear sprockets.

NOTICE

The reference marks (4) on both sides of the swingarm and the edge of each chain adjuster must be aligned to ensure that the front and rear wheels are correctly aligned.

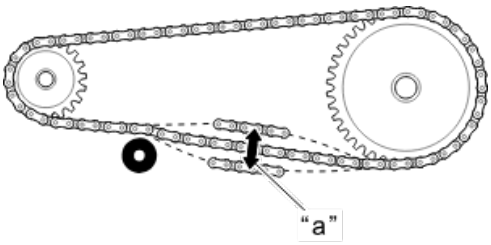


1. Rear axle nut
2. Chain adjuster lock-nut

<u>Drive chain slack</u>

On side stand

[Standard]: 30 – 40 mm (1.2 – 1.6 in)



12) After adjusting the drive chain, tighten the rear axle nut to the specified torque.

<u>Tightening torque</u>

Rear axle nut : 100 N·m (10.2 kgf-m, 74.0 lbf-ft)

13) Recheck the drive chain slack after tightening the rear axle nut.

14) Tighten both chain adjuster lock-nuts to the specified torque.

Tightening torque

Chain adjuster lock-nut : 22 N·m (2.2 kgf-m, 16.5 lbf-ft)

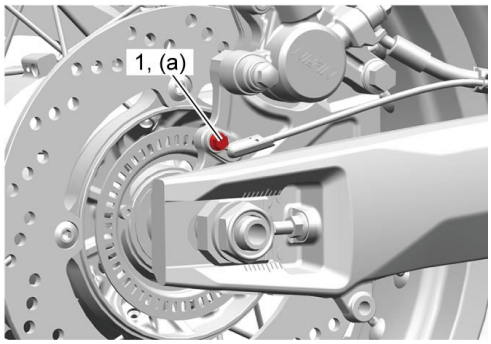
⚠ WARNING

Pump the brake pedal several times to check for proper brake operation.

15) Tighten the rear wheel speed sensor bolt (1) to the specified torque.

Tightening torque

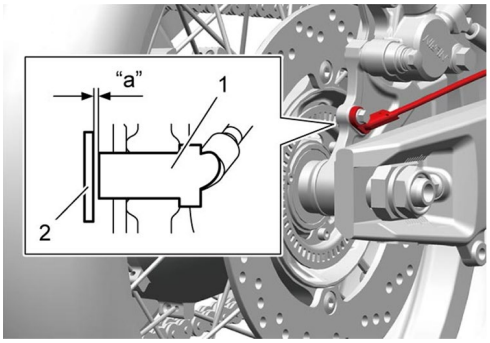
Rear wheel speed sensor bolt (a): 10 N·m (1.0 kgf-m, 7.5 lbf-ft)



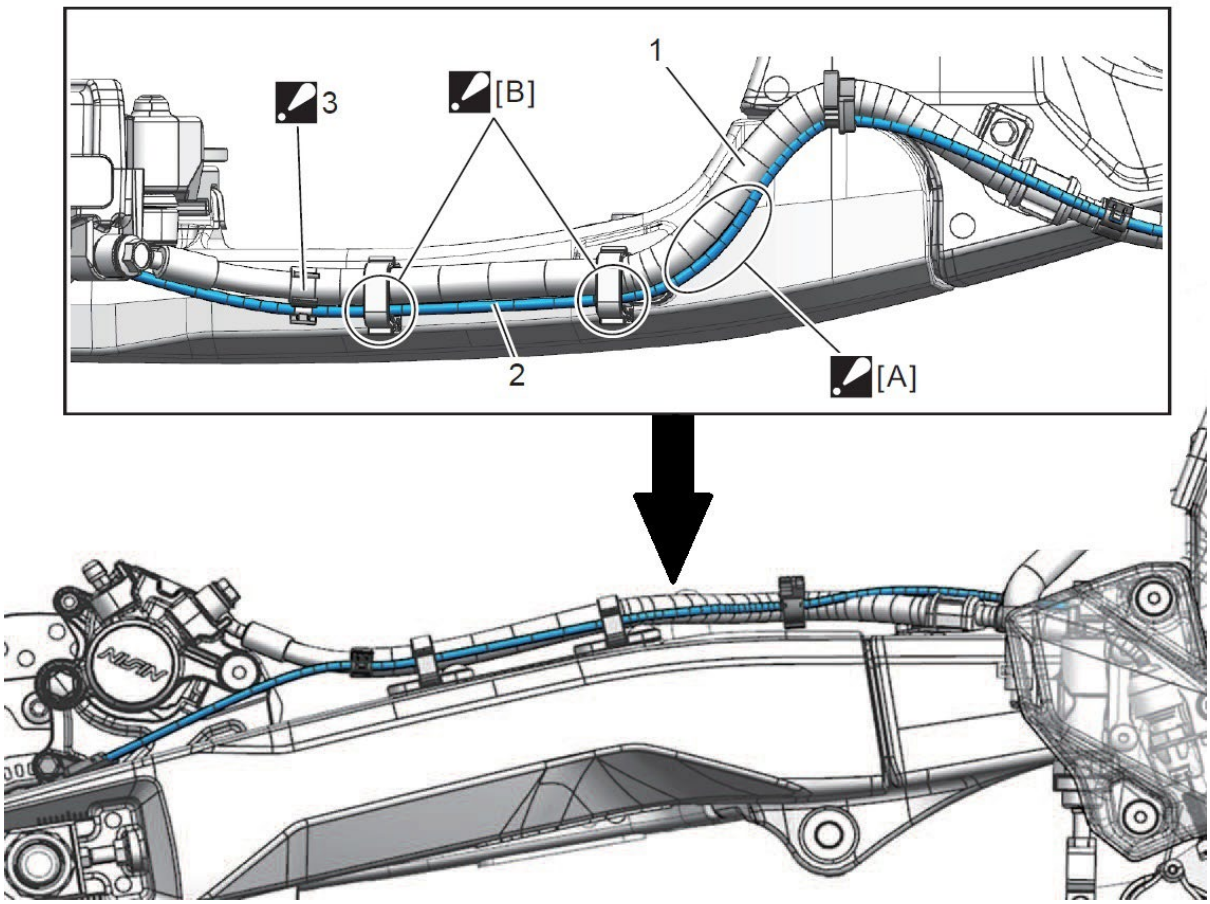
16) Check the “a” between the rear wheel speed sensor (1) and sensor rotor (2) using the thickness gauge.

Wheel speed sensor – Sensor rotor clearance

Rear [Standard]: 0.38 – 1.55 mm (0.015 – 0.061 in)



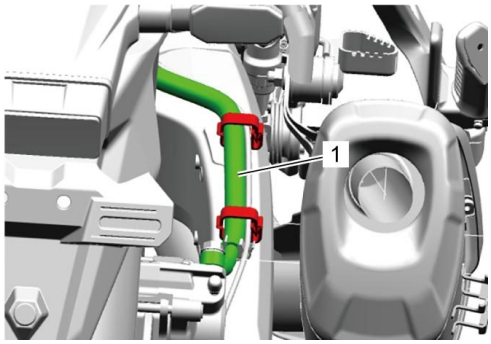
17) Clamp the rear brake hose (1) and rear wheel speed sensor lead wire (2).



[A] : Pass the rear wheel speed sensor lead wire along the brake hose.	2. Rear wheel speed sensor lead wire
[B] : Pass the wheel speed sensor lead wire to inside of the guide.	3. Clamp : Clamp the rear wheel speed sensor lead wire at the right side of the brake hose protector end. Face the clamp openings to upward.
1. Rear brake hose	

NOTE

Brake hose (1) between brake hose guides must be straight.



3-6. Final Check

1) Check if there is any cloth left.

2) Check that each part is set and tightened securely.

3) Pump the brake pedal several times to check for proper brake operation.

