



CR256 – Replacement of ABS to Rear Brake Master Cylinder Hose

Panigale V4 Model Year 2018-2021 (all model versions)

Technical Service Bulletin SRV-TSB-23-009

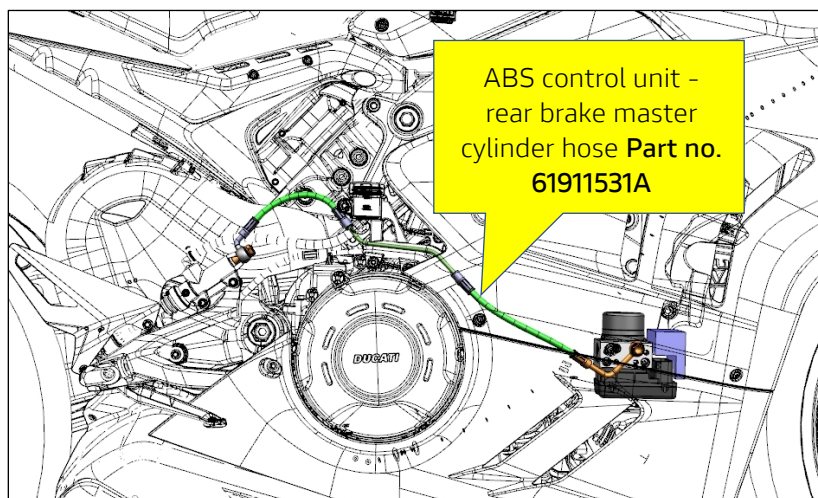
Date: September 22, 2023

To: Dealer Principal, General Manager, Service Manager, North American Dealer Network

From: Richard Kenton, Technical Director
Dan Schwartz, Service Area Manager

Dear Dealers,

This bulletin is to inform you that, following reports of a slight slackening of the rear brake lever over time and as a consequence of use, a new ABS Control Unit to Rear Brake Master cylinder hose Part no. 61911531A is now available for the model concerned in order to prevent this condition.



We remind you that this rear brake hose must be installed on vehicles if Clients complain about a progressive slackening of the rear brake pedal travel over time and with use.

Always remind Clients that correct brake operation must always be checked before each use of the motorcycle, as indicated in the Use and Maintenance Manual, and that it is essential to have the braking systems maintained as prescribed in the maintenance schedule, changing the brake fluid every 24 months.

Moreover, we inform you that this upgrade is NOT mandatory, but optional since it has to be performed only if the Client reports such condition.



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Application

This update is **NOT** listed in the **DCS VIN HISTORY**

We inform you that this upgrade is NOT mandatory, but optional since it must be performed only if the Client reports such symptom/condition.

If a Client complains about a progressive lengthening of the rear brake pedal travel over time and with use, it is necessary to order the replacement parts.

Client Impact

Clients will NOT be notified by dedicated communication.

Involved vehicles must be fitted with the updated rear brake hoses ONLY if the above-described operating concern is detected.



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Spare parts

The spare parts required for this update are:

PART NO.	COMPONENT	IMAGE	QUANTITY
61911531A	Brake Hose from ABS Unit to Rear Brake Master Cylinder		1
85250241A	Copper Washers		4

The required DOT4 brake fluid and self-locking ties (small and large) are easy to find consumables and should be sourced locally.

Parts Distribution

The following components required to carry out the upgrade under this Workshop Campaign must be ordered for each affected frame number.

- Part no. 61911531A: ABS control unit / rear brake master cylinder hose.
- Part no. 85250241A (10pcs): Copper washers.

The ties and DOT4 fluid to be used are easy to find consumables, it is not necessary to fill in any special spare part orders.



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Warranty Reimbursement Rules

Rear brake hose installation reimbursement will be issued through the standard warranty claim procedure via the DCS.

We remind you that this update is NOT listed in the DCS VEHICLE HISTORY, but a NEW WARRANTY CLAIM must be filled. See procedure illustrated below.

The warranty claim is pre-filled and is identified as **CR256**.

The Dealer shall be reimbursed for the parts listed for the operation; copper washers (10) part no. 85250241A, ABS control unit/rear brake master cylinder hose no. 61911531A, the consumable ties and DOT 4 brake fluid; and labor for [REDACTED] ([REDACTED]) that includes the time necessary for:

- Vehicle reception
- Rear brake hose removal (ABS unit/brake M/C)
- Installation of new rear brake hose (ABS control unit/brake M/C)
- Filling and bleeding procedure of the rear brake system
- Soft cleaning of the vehicle
- Compensation for the cost of self-locking ties and DOT4 fluid used to fill the rear brake system.

When creating the WCRC type claim, please fill in the following fields:

1. VIN number: **ZDMXXXXXXXXXXXXXX**
2. Claim Type: **WCRC - WARRANTY CLAIM RECALL CAMPAIGN**
3. Recall Campaign: **CR256 – SRV-TSB-23-009 REPLACEMENT OF REAR BRAKE HOSE**



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Service Solution



WARNING

The replacement procedure of the rear brake hose described in the document is not particularly difficult, however, for the operation to be completed successfully and to comply with the set time, it is necessary to thoroughly follow the sequence of the indicated operations.

We recommend taking your time to fully understand the procedure before attempting its implementation on the motorcycle (you may print the document in color for a better understanding).

We also remind you that the work environment where you carry out the procedure and the tools and equipment used (wrenches and gloves) must be clean.



NOTE

We hereby inform you that this operation is carried out exclusively on the primary circuit of the rear brake system for which it is sufficient to perform the traditional bleeding procedure; NO specific bleeding procedure is hence required for the secondary circuit (circuit inside the ABS control unit).

1. Position the motorcycle on the rear paddock stand.
2. Remove the RH side fairing (see Sec.05: Fairing).
3. Drain all the brake fluid contained inside the rear brake system (see Sect. 04 - Maintenance operation - Changing the rear brake circuit fluid).



WARNING

Brake fluid may damage the paint or parts of the motorcycle. Wash the affected area with plenty of water in case of accidental contact. Damage due to brake fluid spillage is not a warrantable defect and is the responsibility of the repairing dealer to correct.

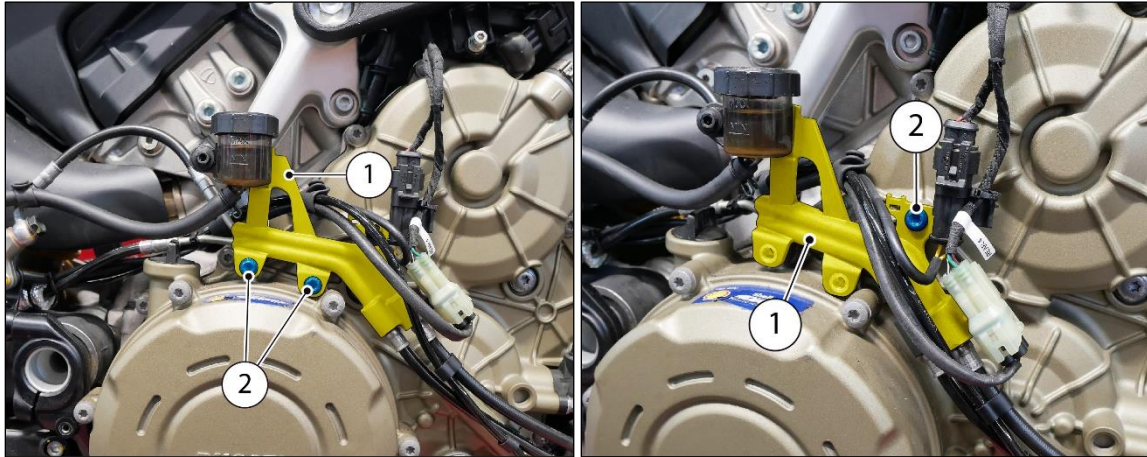


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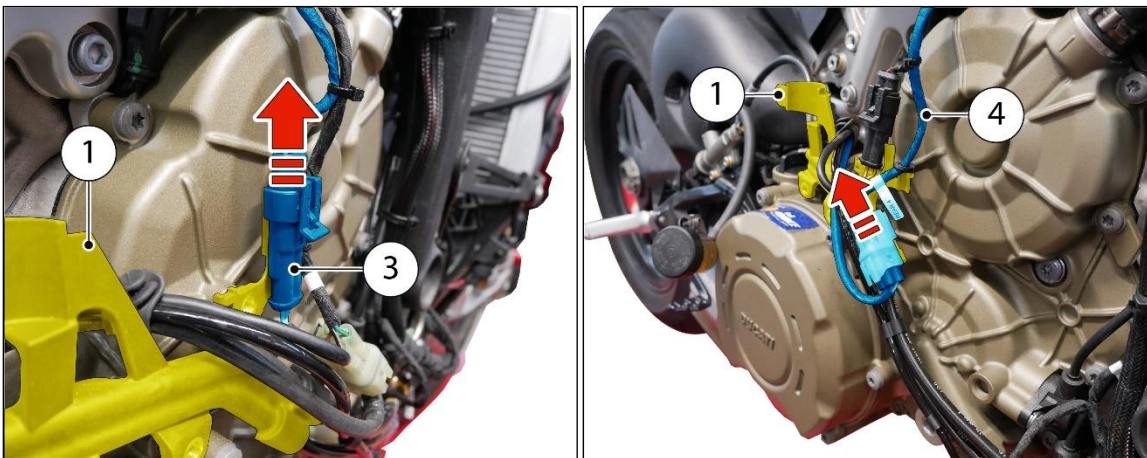
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4. Loosen the 3 M6x12 screws (2) securing the hose grommet (1).



5. Release the speed sensor connector (3) and rear lambda sensor cable (4) from hose grommet (1).





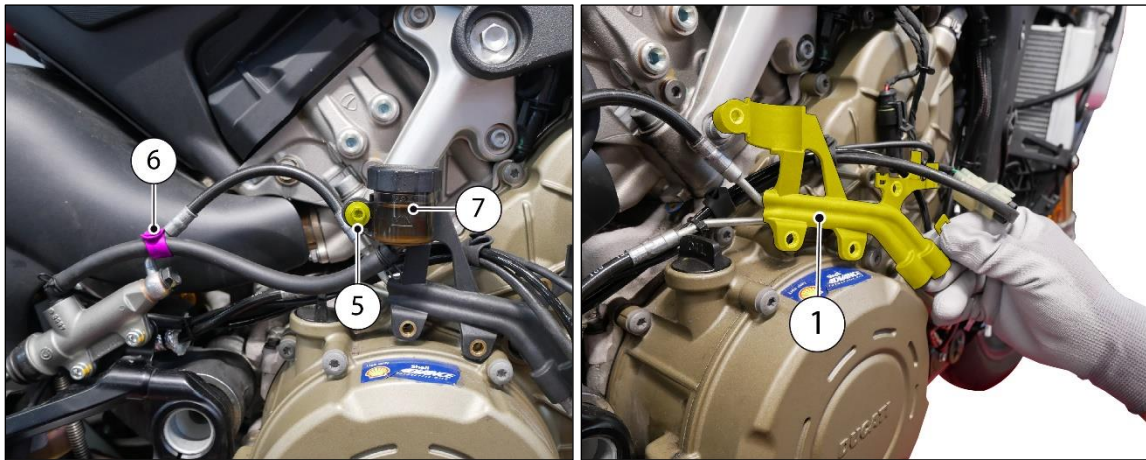
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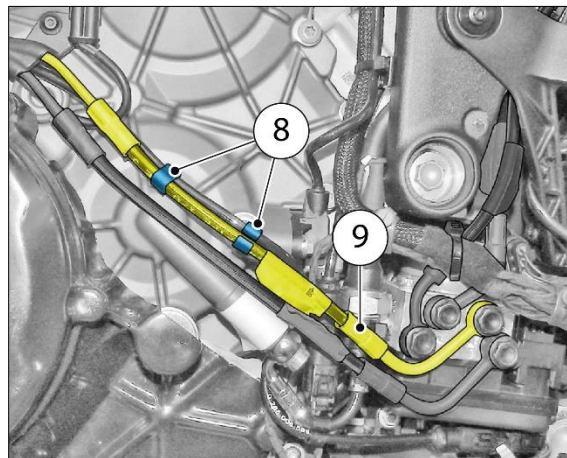
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6. Loosen the **M6x14 screw (5)** and remove the **button tie (6)**. Move the **rear brake fluid reservoir (7)**.

Remove **hose grommet (1)**.



7. Remove the hose from the 2 **fast points (8)**.



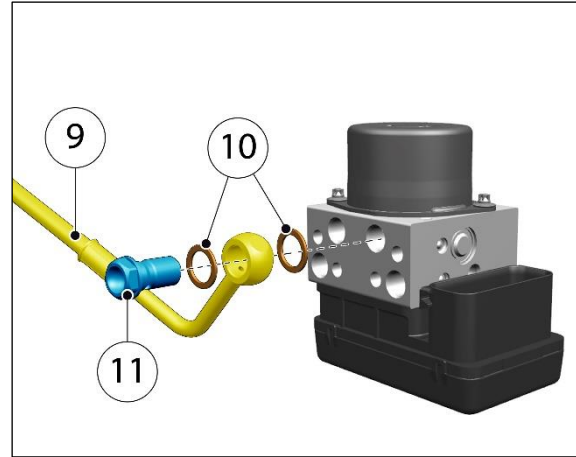
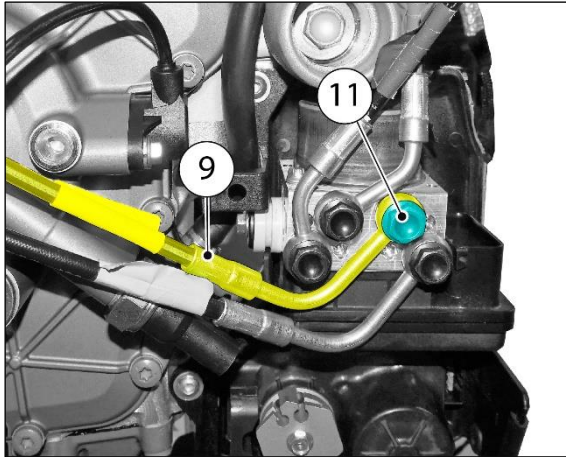


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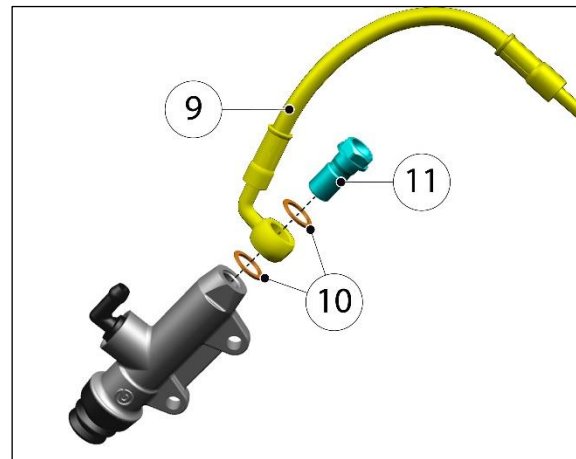
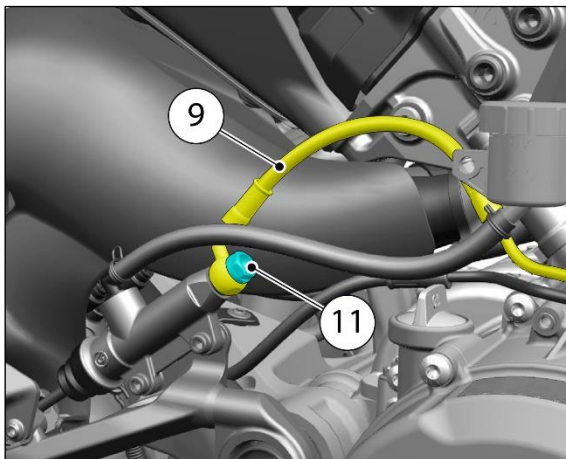
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8. Loosen the **M10x1 special screw (11)** and remove the **2 copper washers (10)**.



9. Loosen the **M10x1 special screw (11)** and remove the **2 copper washers (11)**.

Slide out the brake **hose (9)** connecting the ABS control unit to the rear brake master cylinder.





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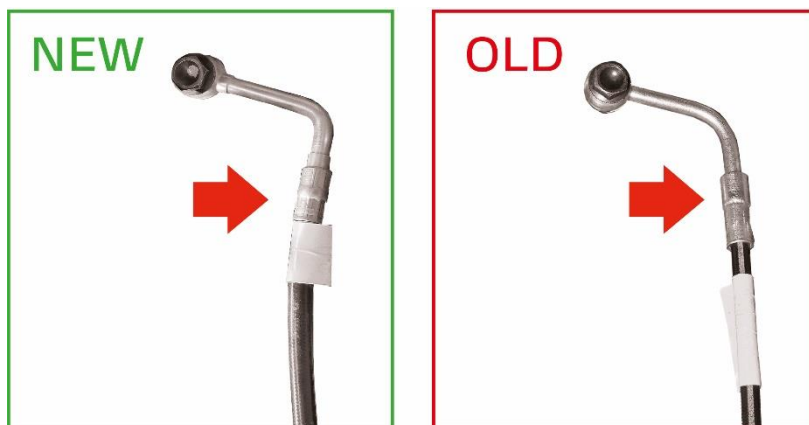
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10. Take the new brake hose connecting the ABS control unit to the rear brake master cylinder.

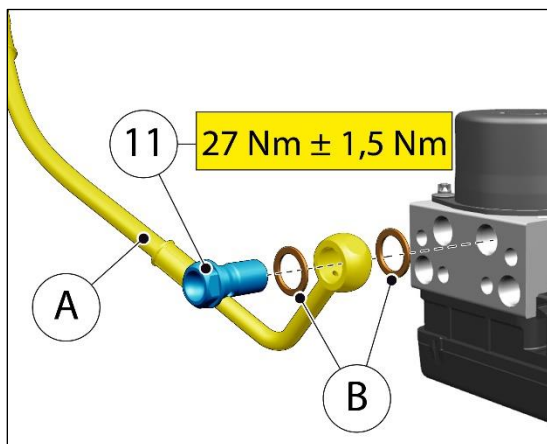
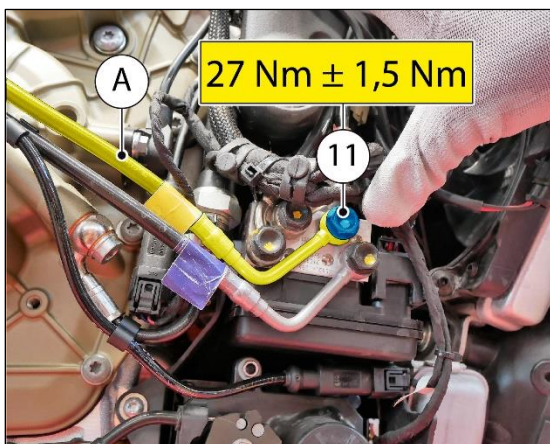


NOTE

The new brake hose can be recognised by the different chamfering that characterises the end part of the unions.



11. Position the new brake hose (A) connecting the ABS control unit to the rear brake master cylinder.
12. Fasten the union to the ABS control unit by installing 2 new copper washers (B) and tighten the M10x1 special screw (11) to a torque of 27 Nm $\pm$ 1.5 Nm.



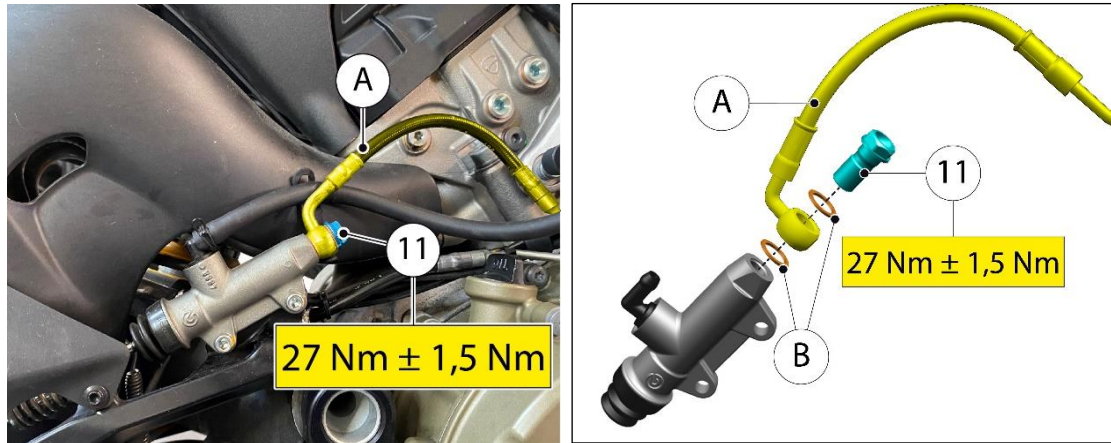


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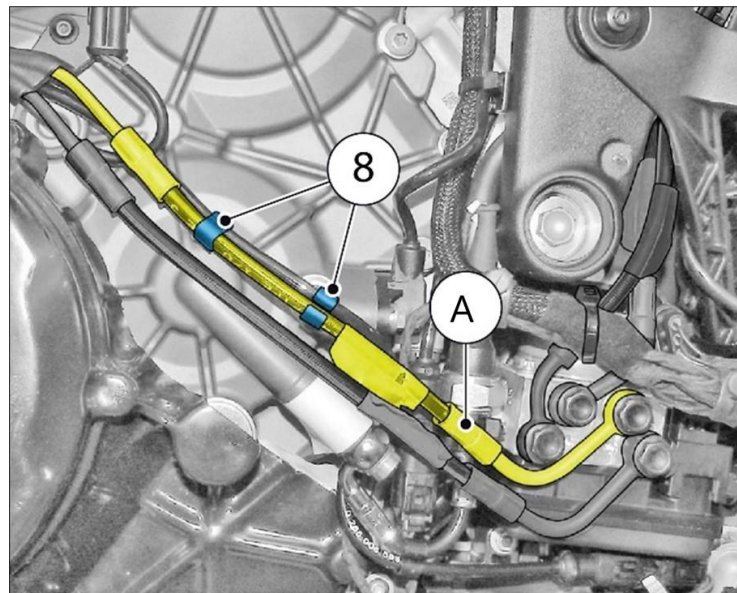
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13. Fasten the rear brake master cylinder union using 2 **new copper washers (B)** and tighten the **M10x1 special screw (11)** to a torque of **27 Nm $\pm$ 1.5 Nm**.



14. Place the rear brake master cylinder hose along to the rear speed sensor wiring and position it into the 2 **fast points (8)** as shown in the figure.





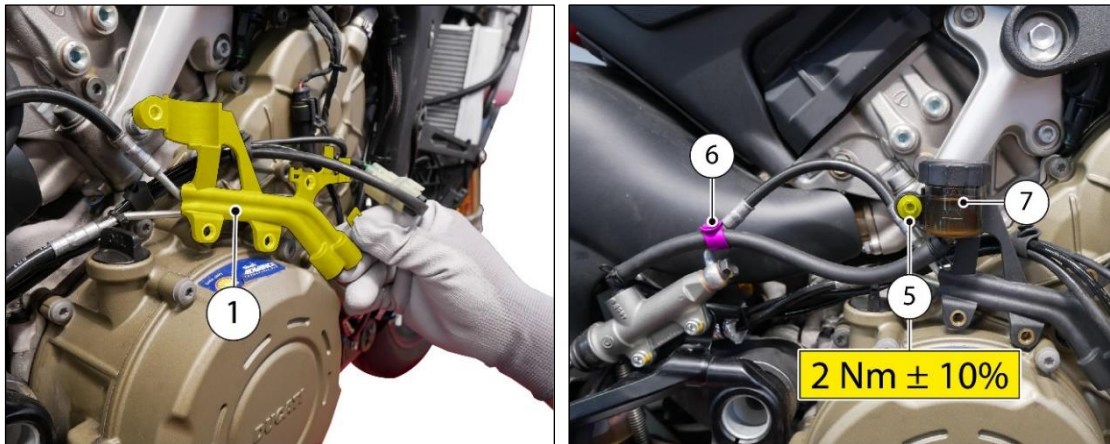
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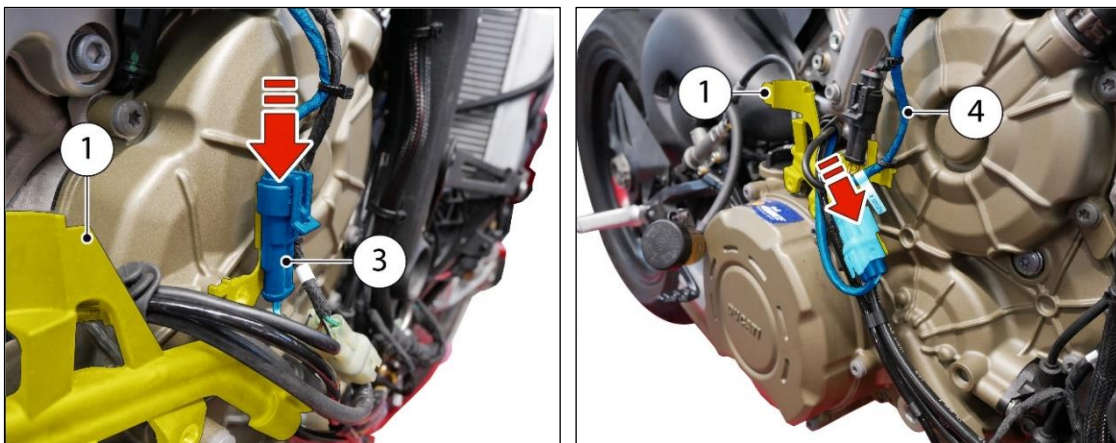
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15. Position **hose grommet (1)** on rear brake master cylinder hose and on rear speed sensor wiring.

Position the **rear brake fluid reservoir (7)** and tighten the **screw M6x14 (5)** to a torque of **2 Nm ± 10%**. Tie the brake hoses with a **button tie (6)**, at the chamfering, keeping it at a sufficient distance from the screw head as much as possible.



16. Position the **speed sensor connector (3)** and **rear lambda sensor cable (4)** on hose grommet (1).



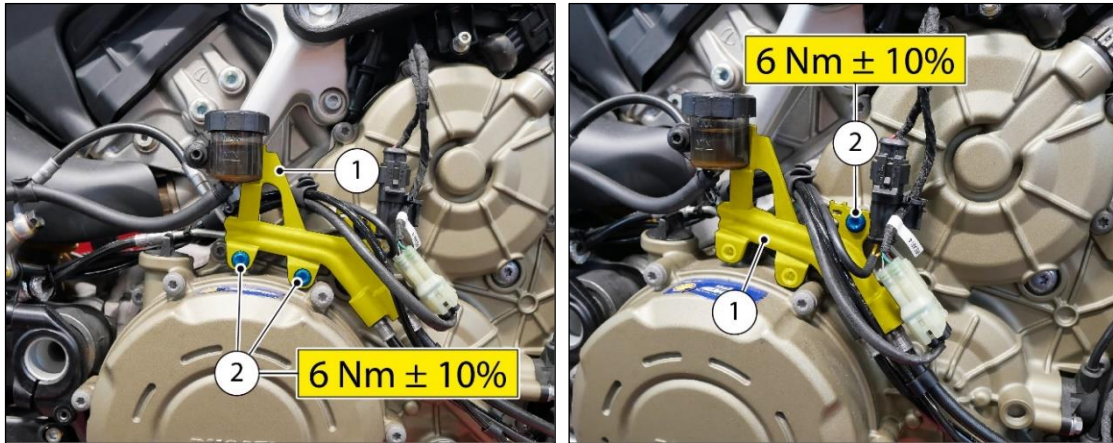


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17. Install and tighten the 3 **M6x12 screws (2)** securing the **hose grommet (1)** to a tightening torque of **6 Nm $\pm$ 10%**.



18. Remove the rear wheel (see Sec.07: "Chassis - Rear wheel").
19. Proceed with the DOT4 fluid filling inside the rear brake system and bleed the system following the procedure indicated in the bulletin SRV-TTB-17-002.



WARNING

Remember that the brake fluid can damage the paint or parts of the motorcycle.
Wash the affected area with plenty of water in case of accidental contact.



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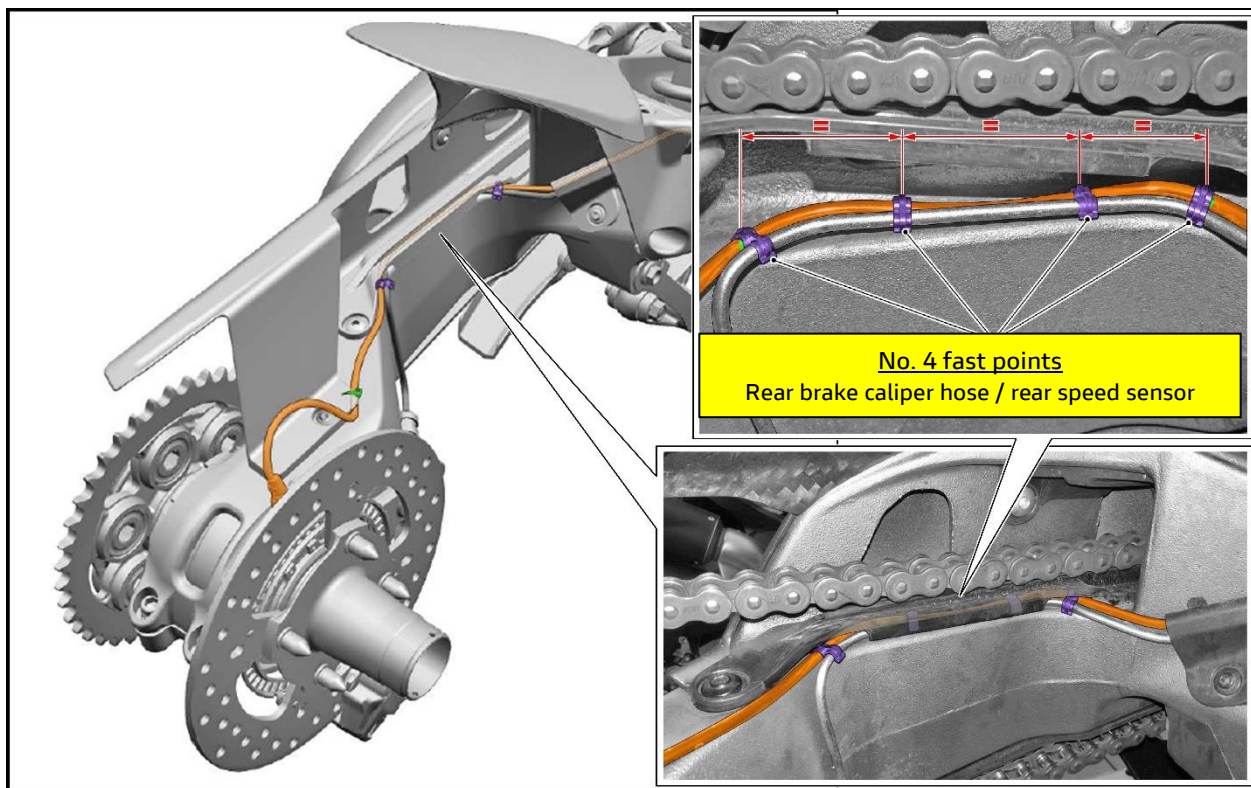
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WARNING

When repositioning the rear brake hose, pay special attention to the fastenings for the rear speed sensor wiring along the swing arm.





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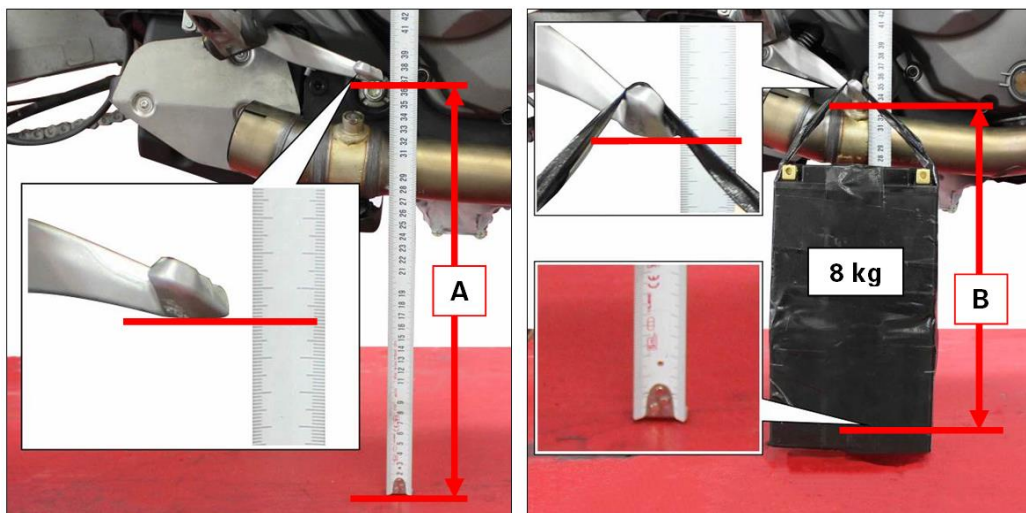
Rear Brake Pedal Travel Check



NOTE

The figures shown for the following procedure are for illustration purposes only.

1. Measure height **(A1)** between rear brake lever lower end and load-bearing surface; brake lever must be in rest position (upper limit stop).
2. Slowly position the 8 kg weight onto rear brake lever; then measure height **(B1)** between rear brake lever lower end and load-bearing surface.



3. Note the difference between the measured heights **(A1)** and **(B1)**.

$$\text{Rear brake lever stroke 1} = (A1) - (B1)$$

4. Test ride the vehicle on the road at a speed of about 30 MPH (50 Km/h) and, by operating only the rear brake, brake until the **ABS is engaged at least 10 times.**
5. Measure again the rear brake lever stroke as referred to under section (1) and (2).



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WARNING

The measurement of the rear brake lever stroke required must be taken with the same temperature conditions as the previous measurement. Therefore, if the measurement was taken with cold engine, it will be necessary to wait for 2 hours before proceeding.

6. Note the difference between the measured heights **(A2)** and **(B2)**.

$$\text{Rear brake lever stroke 2} = (A2) - (B2)$$

7. Compare the 2 stroke values of the rear brake lever.
 - If a stroke increase of the rear brake lever is detected, repeat the whole bleed procedure.
 - Once the new bleeding procedure is completed, check that the stroke of the rear brake lever has not increased.
8. Remove the motorcycle from the rear paddock stand.
9. Perform a soft cleaning of the motorcycle before delivering it to the Client.

For questions on this Workshop Campaign,
please contact your Service Area Manager.