



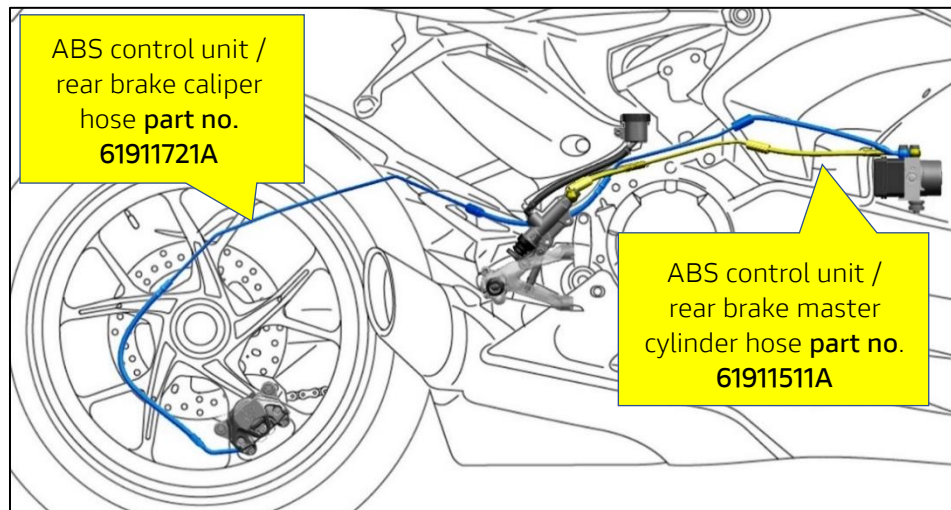
CR237 – Rear Brake Hoses Replacement if Required

Panigale V2 MY2020-2021 (all country versions)
Technical Service Bulletin SRV-TSB-22-012

Date: September 20, 2022
To: Dealer Principal, General Manager, Service Manager
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, new rear brake hoses (ABS control unit/rear brake master cylinder – yellow, and ABS control unit/rear brake caliper – blue) are now available for the model listed above in order to prevent this condition.



We remind you that these rear brake lines must be installed on motorcycles ONLY if Customers complain about a progressive lengthening of the rear brake pedal travel over time and with use.

Always remind Customers that correct brake operation must always be checked before each use of the motorcycle, as indicated in the Owner's 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.



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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 Customer reports such symptom/condition.

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

Customer Impact

Customers 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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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. 61911511A: ABS control unit / rear brake master cylinder hose.
- Part no. 61911721A: ABS control unit / rear brake caliper hose.
- Part no. 85250241A (10pcs): Copper washers.

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

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 **CR237**.

The Dealer shall be reimbursed for the parts listed for the operation; copper washer (10) part no. 85250241A, ABS control unit/rear brake master cylinder hose no. 61911511A, ABS control unit/rear brake caliper hose part no. 61911721A, the consumable ties and DOT 4 brake fluid; and labor for () that includes the time necessary for:

- Vehicle reception
- Rear brake hose removal (ABS unit/brake M/C and ABS unit/brake caliper)
- Installation of new rear brake hoses (ABS control unit/brake M/C and ABS control unit/brake caliper)
- 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.

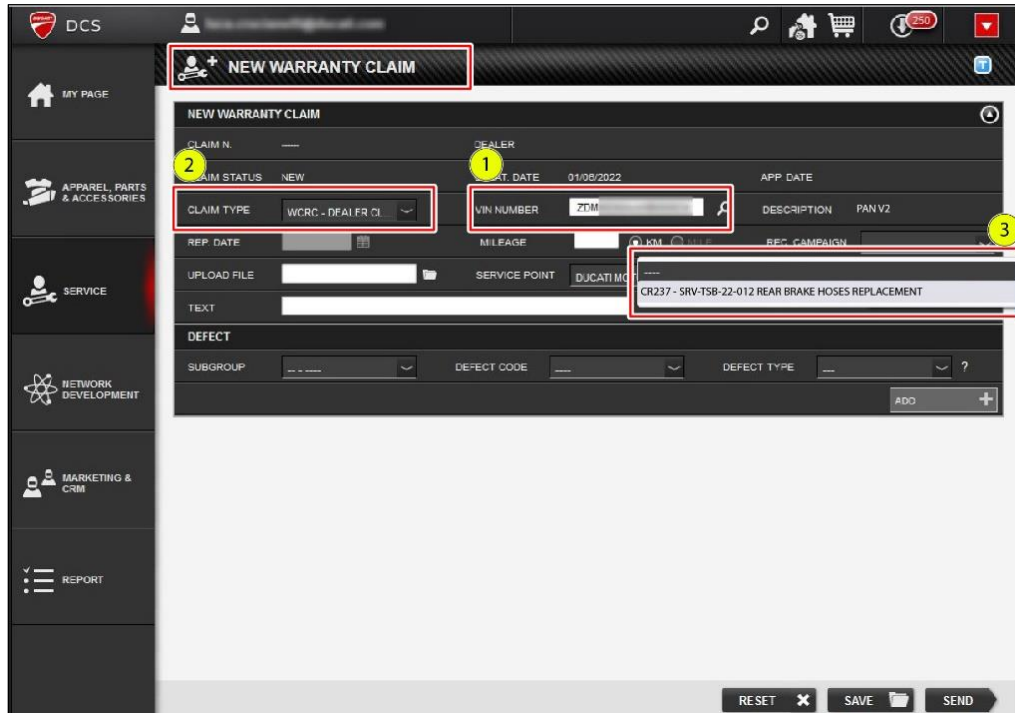


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When creating the WCRC type claim, please fill in the following fields:

1. VIN number: **ZDMXXXXXXXXXXXXXX**
2. Claim Type: **WCRC - WARRANTY CLAIM RECALL CAMPAIGN**
3. Recall Campaign: **CR237 – SRV-TSB-22-012 REAR BRAKE HOSE REPLACEMENT**



Spare Parts

Part No.	Description	Picture (ex. only, not actual part)
61911721A	ABS control unit / rear brake caliper hose	
61911511A	ABS control unit / rear brake master cylinder hose	
85250241A	Copper washers (8pcs)	



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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).

Service Solution



WARNING

To ensure the correct execution of the operation within the provided labor time to carry out the updates, it is necessary to follow the sequence indicated in the following instructions.

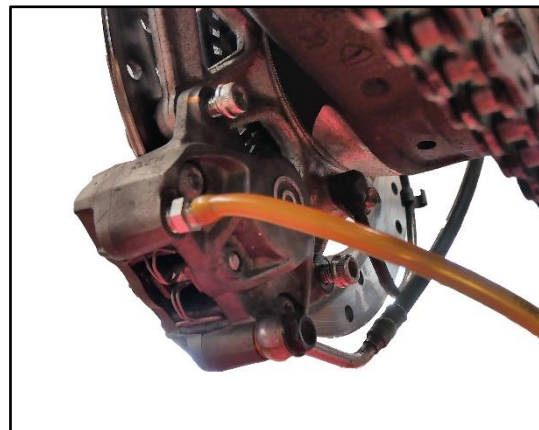
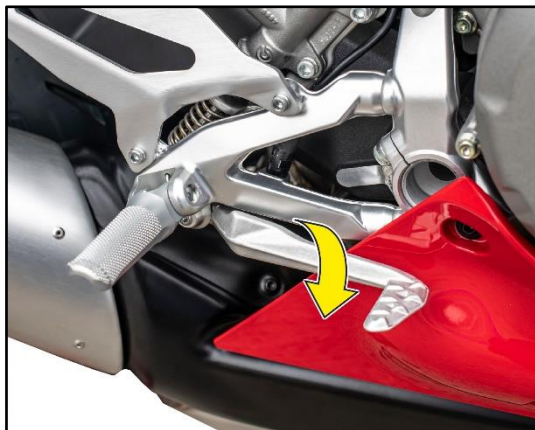


NOTE

The following procedure is relevant for all motorcycle versions for this campaign. The images shown are for general reference and may not align exactly to the motorcycle being worked on at all times.

Part 1: Vehicle Preparation

1. Position the motorcycle on the rear paddock stand
2. Remove the rear wheel (see Sec. 07: "Chassis - Rear wheel").
3. Drain all the brake fluid contained inside the rear brake system (see Sect. 04 - Maintenance operation - Changing the rear brake circuit fluid).





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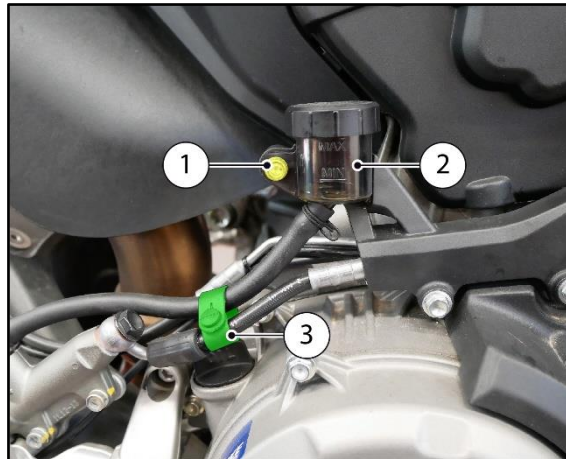
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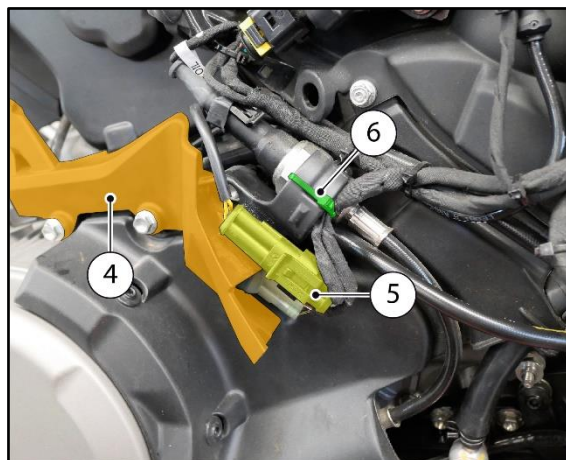
WARNING

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.

4. Remove the RH fairing (see Sec. 05: "Fairing installation - Fairing" of the Workshop Manual).
5. Loosen the **M6x16 screw (1)** and remove the **button tie (3)**. Move the **rear brake fluid reservoir (2)**.



6. Release the **speed sensor connector (5)** from the **hose grommet (4)** and remove the **self-locking tie (6)**.

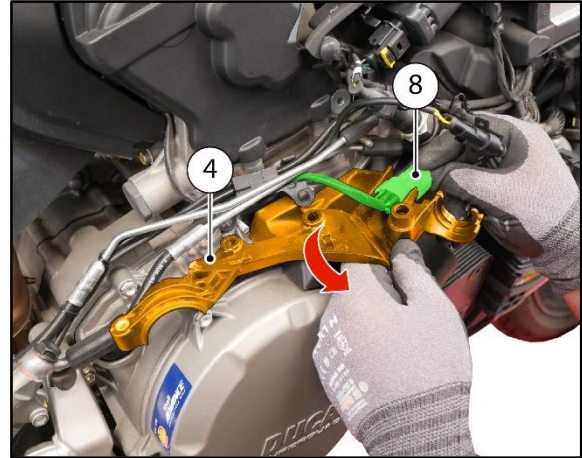
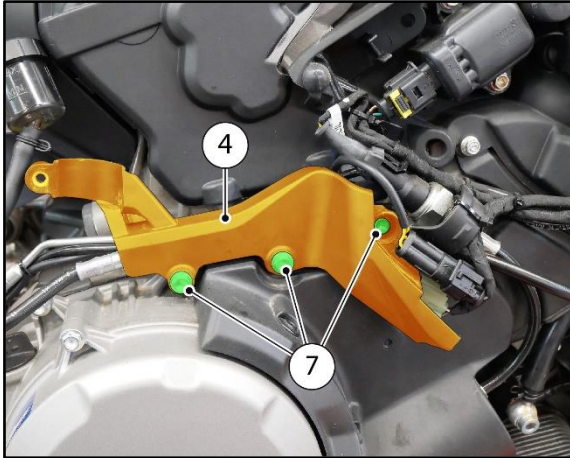




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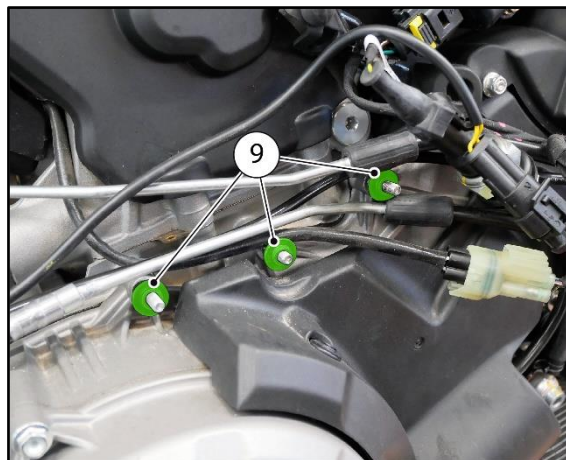
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7. Loosen the 3 special nuts M5x11 (7). Slide out the lambda sensor connector (8) and remove the hose grommet (4).



NOTE

Recover the 3 washers (9).

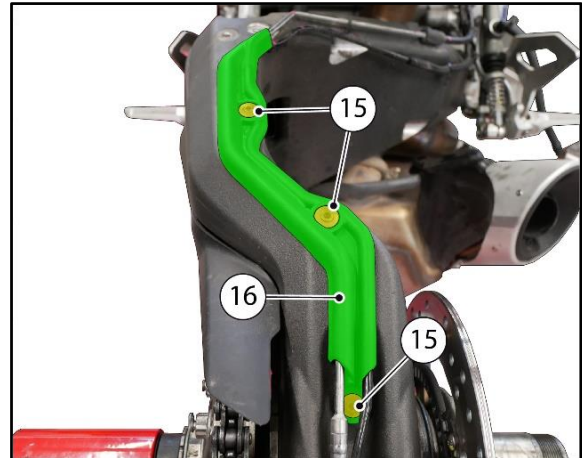
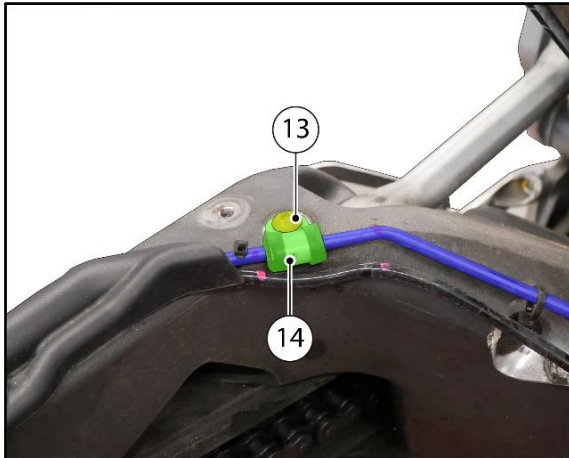




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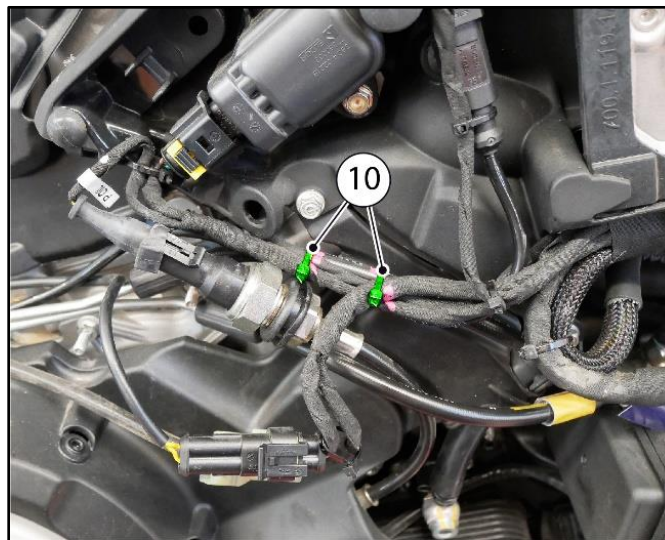
- Loosen the **M6X16 screw (13)** and remove the **hose grommet (14)**. Loosen the **3 screws M5x10 (15)** securing the **hose guide (16)** on the swinging arm. Remove the **hose guide (16)**.



Part 2: Rear Brake Hose Removal

Brake hose connecting the ABS control unit to the rear brake caliper

- Mark the wire leads with a felt-tip pen the position of the **2 small self-locking ties (10)** and remove them.

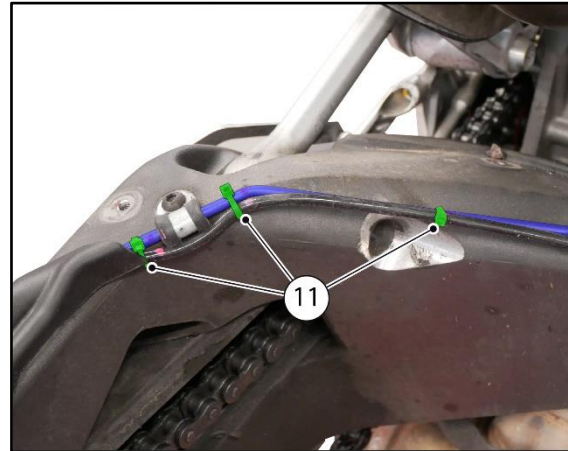
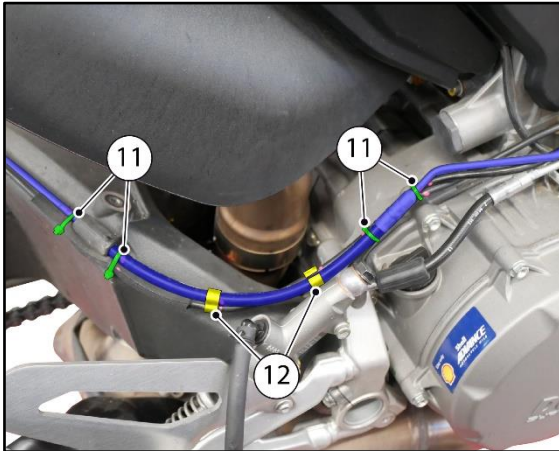




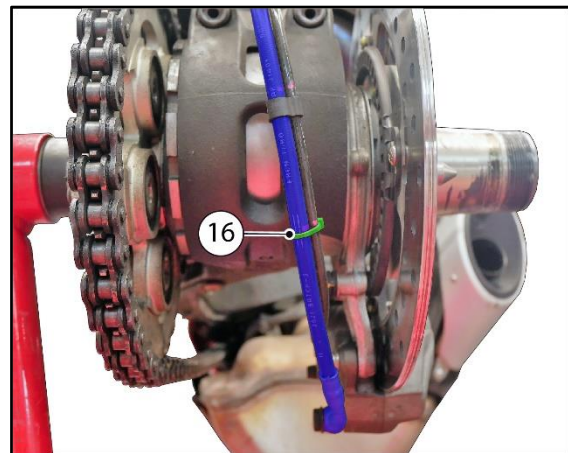
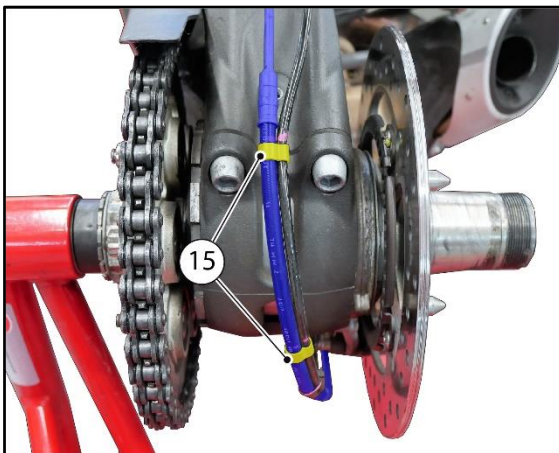
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2. Mark with a felt-tip pen, the position of the **7 small self-locking ties (11)** and the **2 fast points (12)** and remove them.



3. Mark with a felt-tip pen, the position of the **2 fast points (15)** and of the **small self-locking tie (16)** and then remove them.

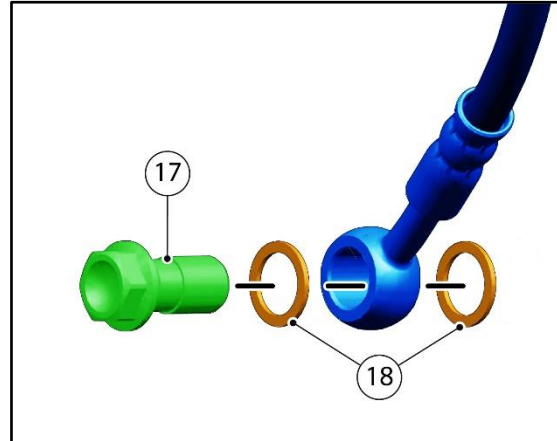
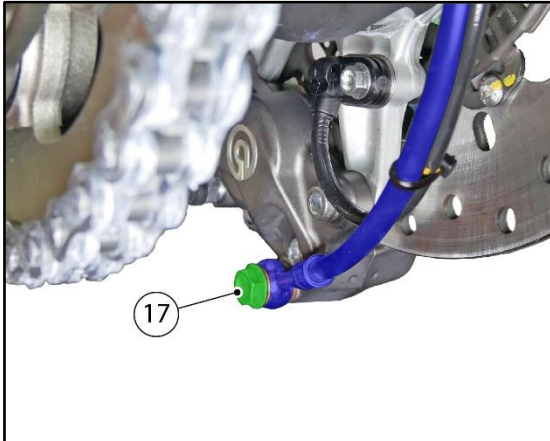




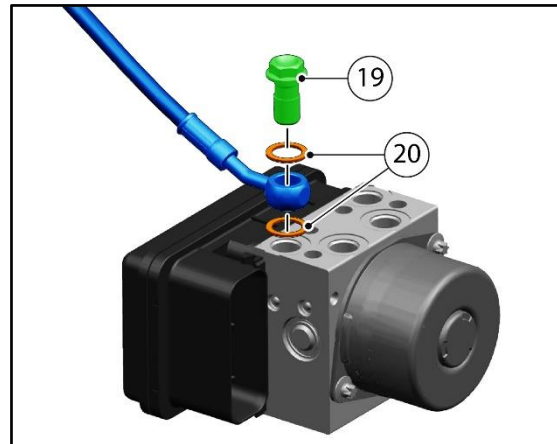
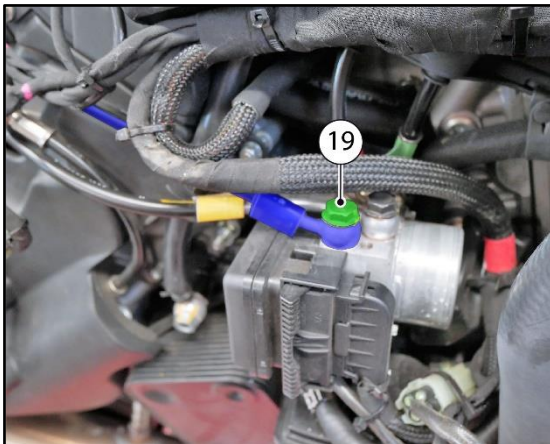
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4. Loosen the **M10x1 special screw (17)** at the rear caliper and remove the **2 copper washers (18)**.



5. Loosen the **M10x1 special screw (19)** at the ABS unit and remove the **2 copper washers (20)**.

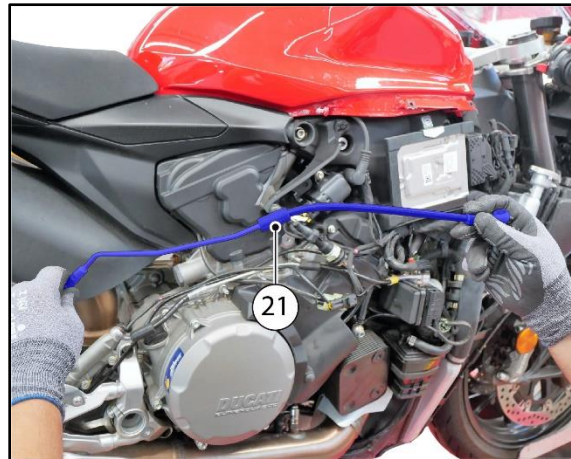




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- Slide out the brake hose (21) connecting the ABS control unit to the rear brake caliper.

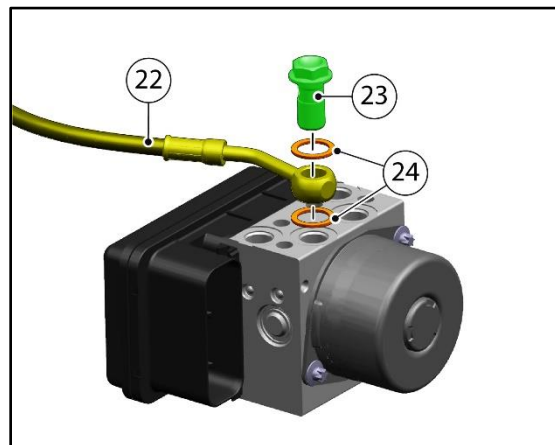
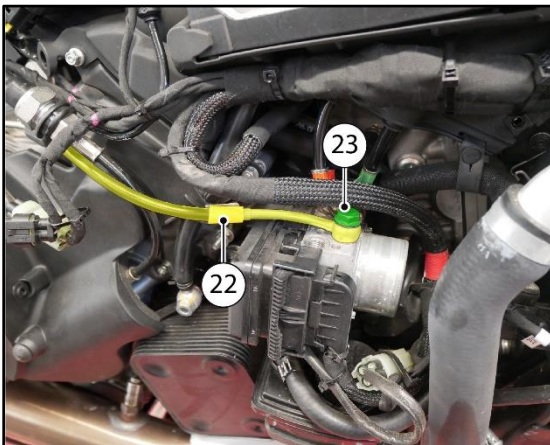


WARNING

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

Brake hose connecting the ABS control unit to the rear brake master cylinder

- Loosen the M10x1 special screw (23) at the ABS unit and remove the 2 copper washers (24).

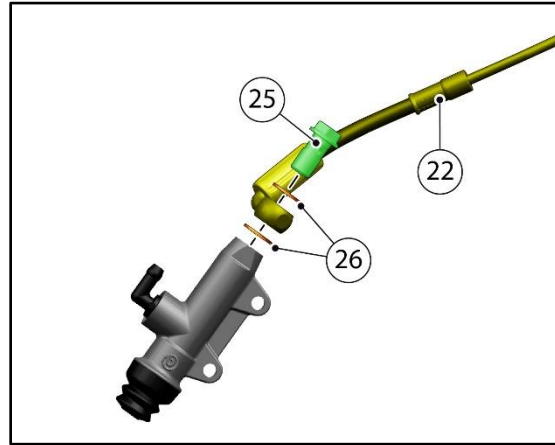
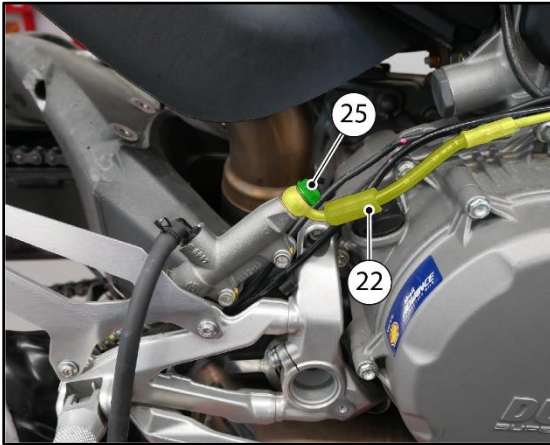




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- Loosen the **M10x1 special screw (25)** at the rear master cylinder and remove the **2 copper washers (26)**. Slide out the brake hose **(22)** connecting the ABS control unit to the rear brake master cylinder.

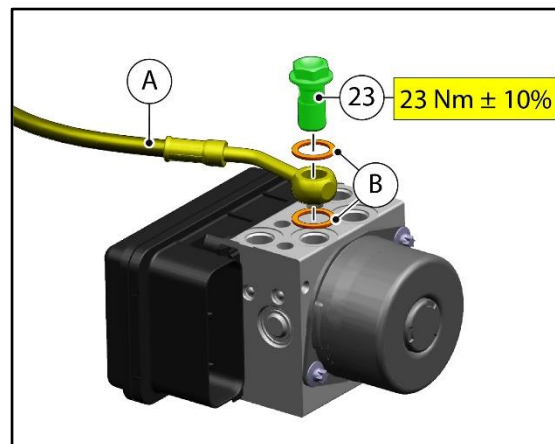
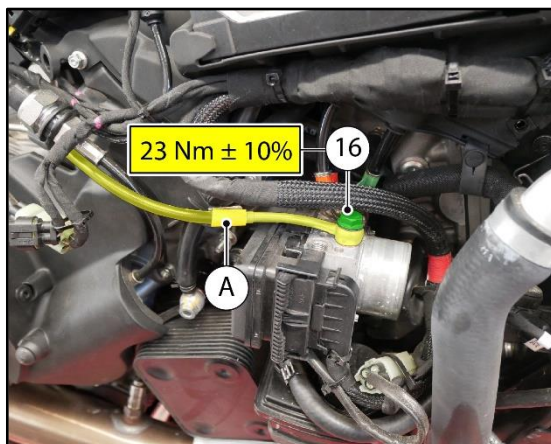


WARNING

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

Part 3: New Rear Brake Hose Installation - Brake hose connecting the ABS control unit to the rear brake master cylinder

- Position the new brake hose **(A)** connecting the ABS control unit to the rear brake master cylinder.
- Fasten the fitting to the ABS control unit by installing **2 new copper washers (B)** and tighten the **M10x1 special screw (23)** to a torque of **23 Nm \pm 10% with certification**.

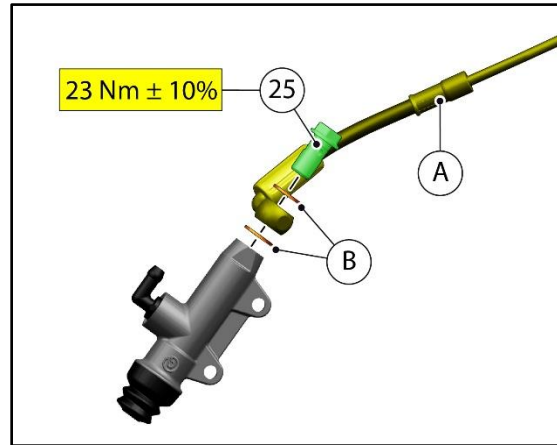
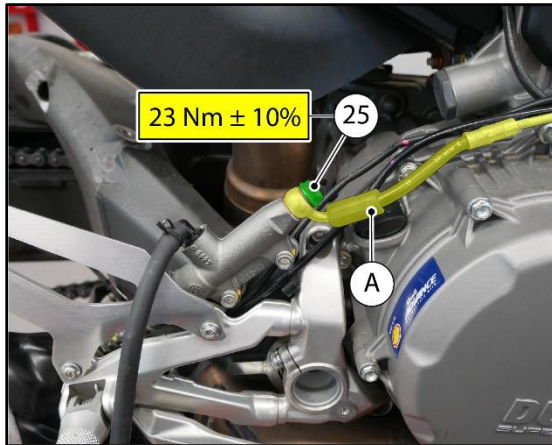




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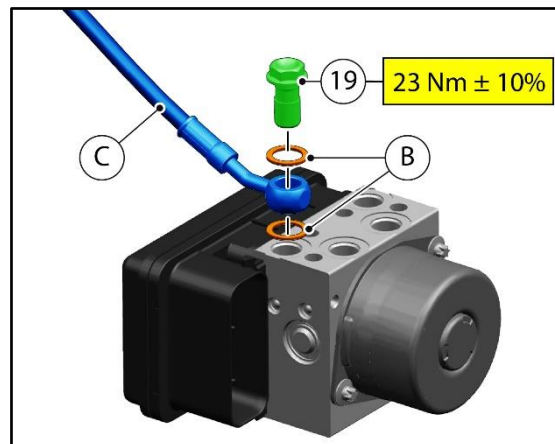
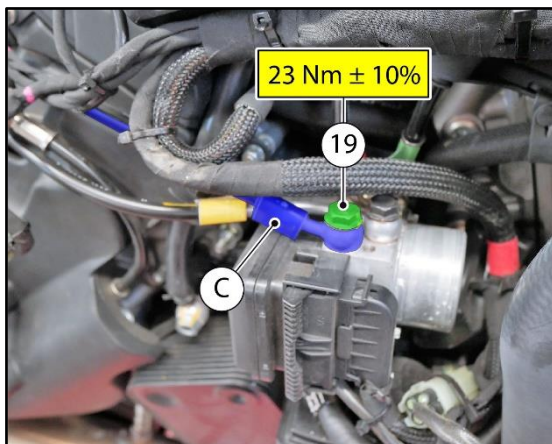
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3. Fasten the rear brake master cylinder fitting using **2 new copper washers (B)** and tighten the **M10x1 special screw (25)** to a torque of **23 Nm ± 10% with certification.**



Part 4: New Rear Brake Hose Installation - Brake hose connecting the ABS control unit to the rear brake caliper

1. Position the brake hose connecting the ABS control unit to the rear brake caliper (C).
2. Fasten the ABS control unit fitting to the ABS control unit by installing **2 new copper washers (B)** and tighten the **M10x1 special screw (19)** to a torque of **23 Nm ± 10% with certification.**

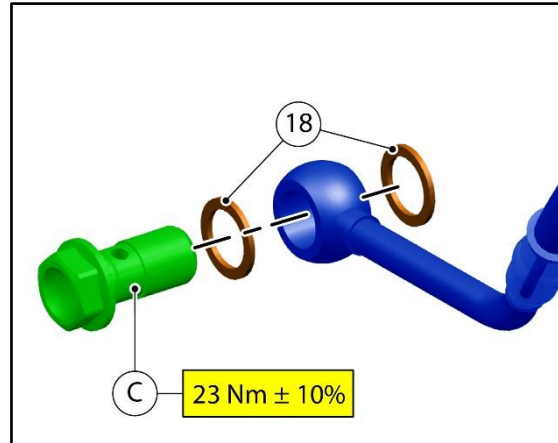
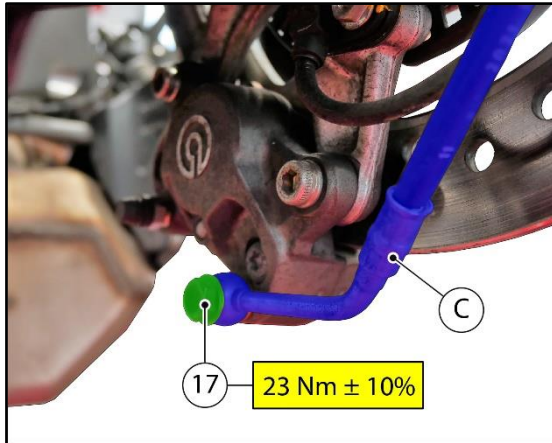




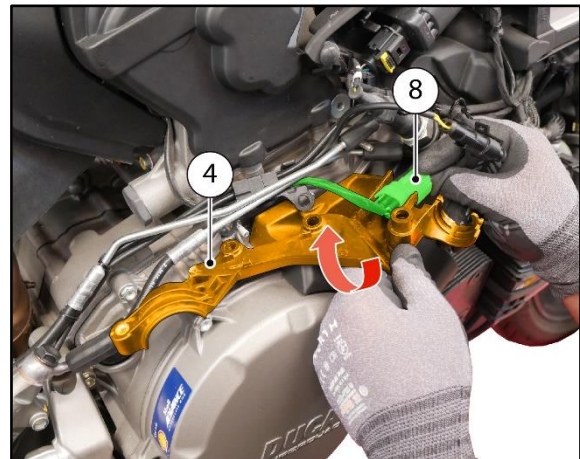
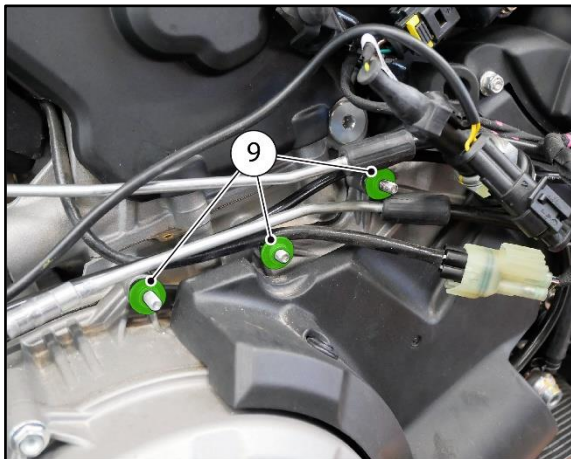
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3. Fasten the rear brake caliper fitting using **2 new copper washers (18)** and tighten the **M10x1 special screw (17)** to a torque of **23 Nm ± 10% with certification.**



4. Position the **3 washers (9)**. Insert the **lambda sensor connector (8)** in its seat and position the **hose grommet (4)** into place.

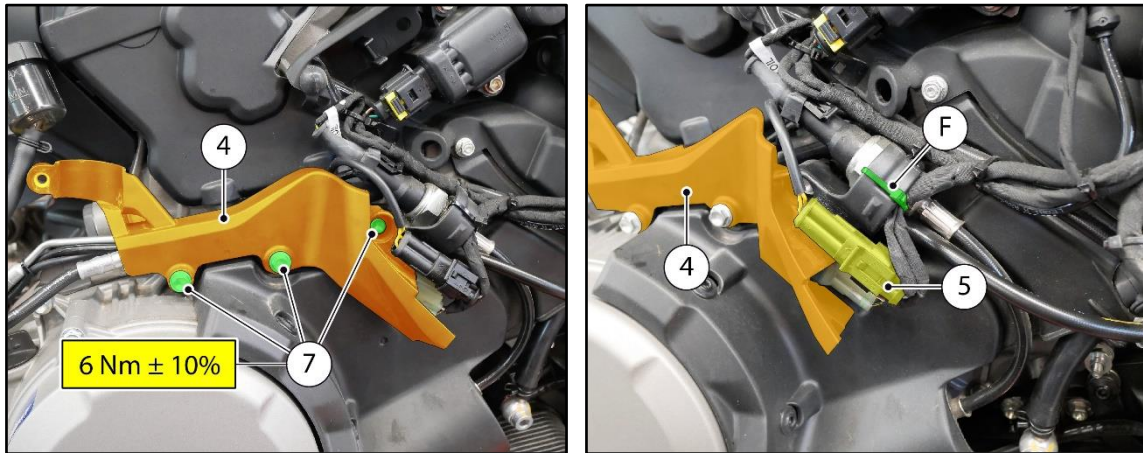




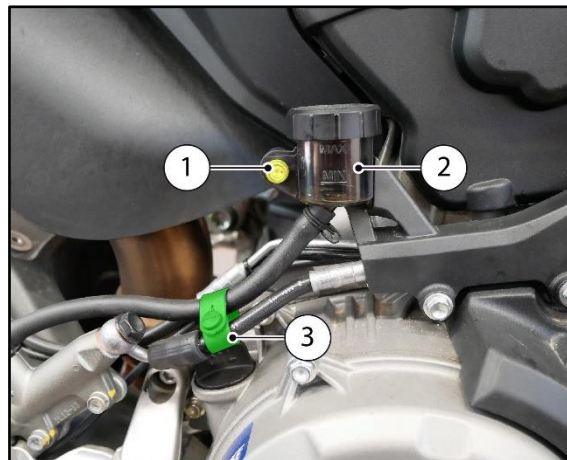
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5. Tighten the 3 M5x11 special nuts (7) to a torque of **6 Nm \pm 10%**. Position the speed sensor connector (5) and tie the speed sensor cable and lambda sensor cable with a self-locking tie (F).



6. Position the rear brake fluid reservoir (2). Tighten the M6x16 screw (1) to a torque of **2 Nm \pm 10%** and tie the rear brake master cylinder fluid reservoir hose with the rear brake master cylinder/ABS control unit hose with an L.62 button tie (3).



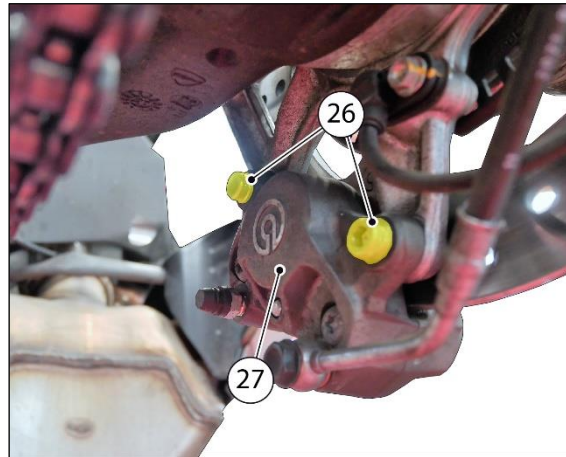


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Part 5: Rear Brake System Filling and Bleeding

1. Loosen the **2 screws M8x20 (26)** and remove the **rear caliper (27)**. Raise the caliper so that the bleeder is at the highest point of the rear brake system.



2. Proceed with filling the rear brake system with the DOT4 fluid and bleed the system similar to the procedure indicated in the bulletin SRV-TTB-17-002.



NOTE

A second technician is required to fill the rear brake fluid system during the bleeding process, as shown in the figure. This will help ensure the bleeder is at the highest point to prevent air from getting trapped in the system.

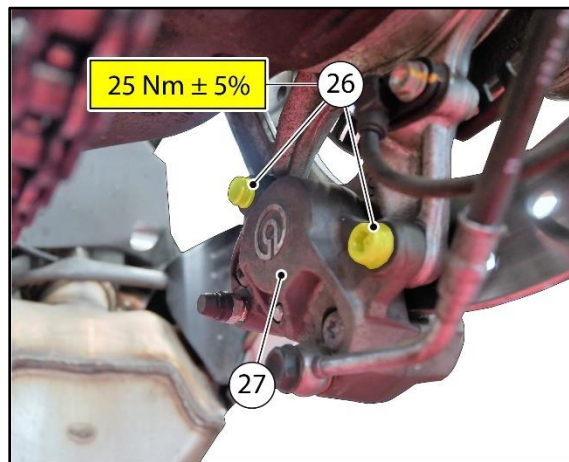




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3. After the rear brake system has been fully bleed, secure the **rear brake caliper (27)** on its support plate and tighten the **2 M8x20 screws (26)** to a torque of **25 Nm ± 5%**, using GADUS S2 V220 AD 2 grease applied to the threads.

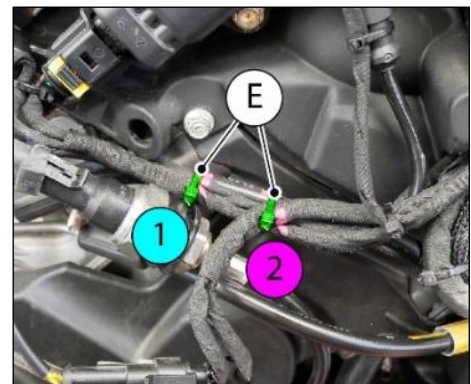


Part 6: Vehicle Refitting

1. Use **2 small self-locking ties (E)** to fix to ABS control unit / rear brake caliper hose the:

- Zone 1:**
- main wiring RH rear upper branch
 - speed sensor cable
 - secondary air actuator wiring branch

- Zone 2:**
- main wiring RH rear upper branch
 - main wiring RH rear lower branch
 - rear speed sensor cable
 - secondary air actuator wiring branch

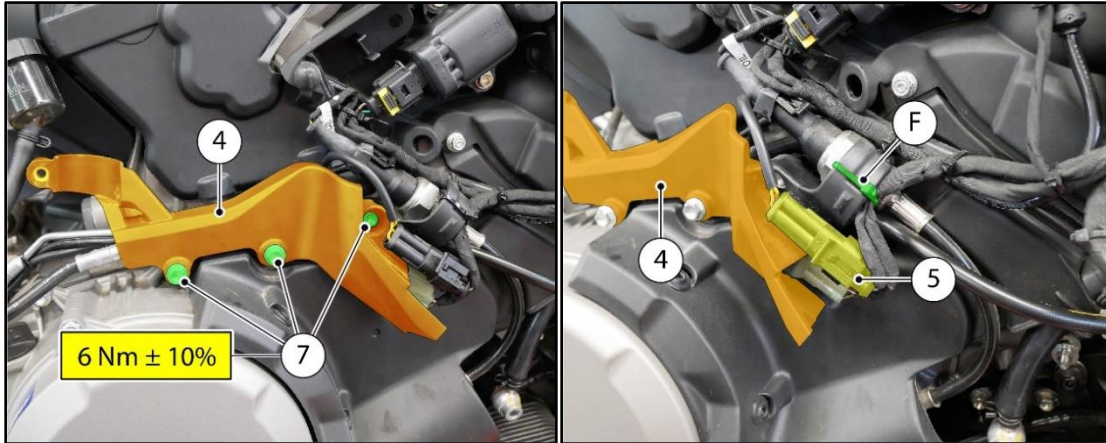




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2. Tighten the 3 M5x11 special nuts (7) to a torque of **6 Nm ± 10%**. Position the speed sensor connector (5) and tie the speed sensor cable and lambda sensor cable with a self-locking tie (F).

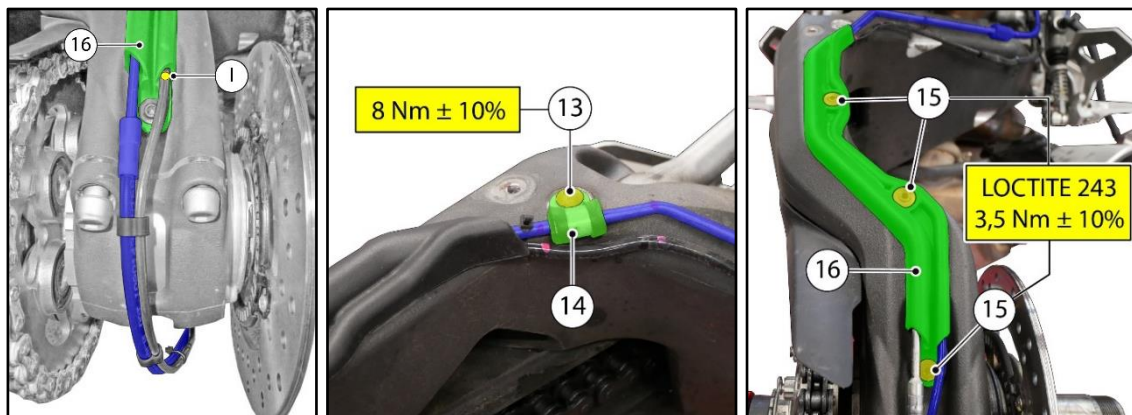


3. Position the hose guide (16) on the swing arm and tighten the 3 M5x10 screws (15) to a torque of **3.5 Nm ± 10%** after applying **LOCTITE 243** to the threads of the screws. Tighten the M6X16 screw (13) to a torque of **8 Nm ± 10%** and secure the hose guide (14).



NOTE

Position the hose guide (16) at the marking (I) on the rear speed sensor cable.



WARNING

Pay close attention to the hose and cable routing to ensure it is correct and will not come into contact with the rear wheel and/or tire.



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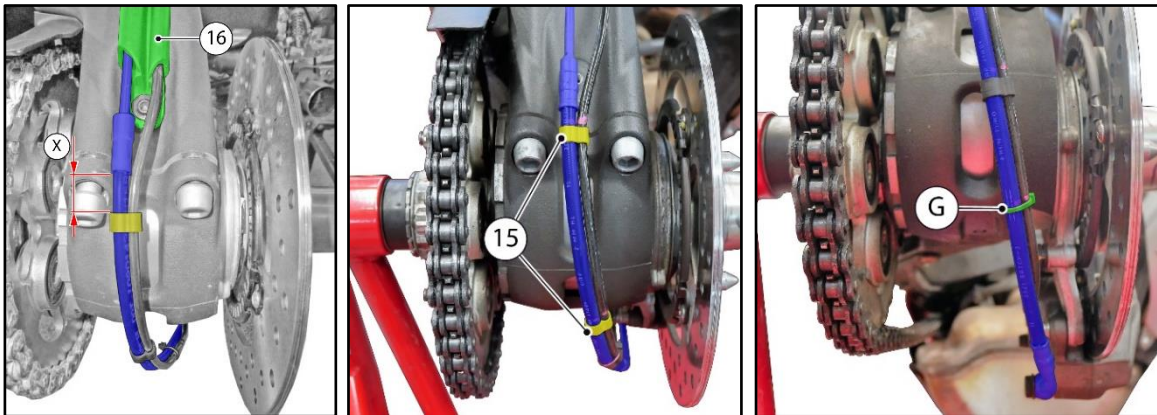
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4. Tie the rear brake caliper / ABS control unit hose with the rear speed sensor cable using the **2 fast points (15)** and the **small self-locking tie (G)**.



WARNING

The indicated fast point must be positioned at a distance of approximately **20 mm from chamfering (X)** of the ABS control unit / rear brake caliper hose.

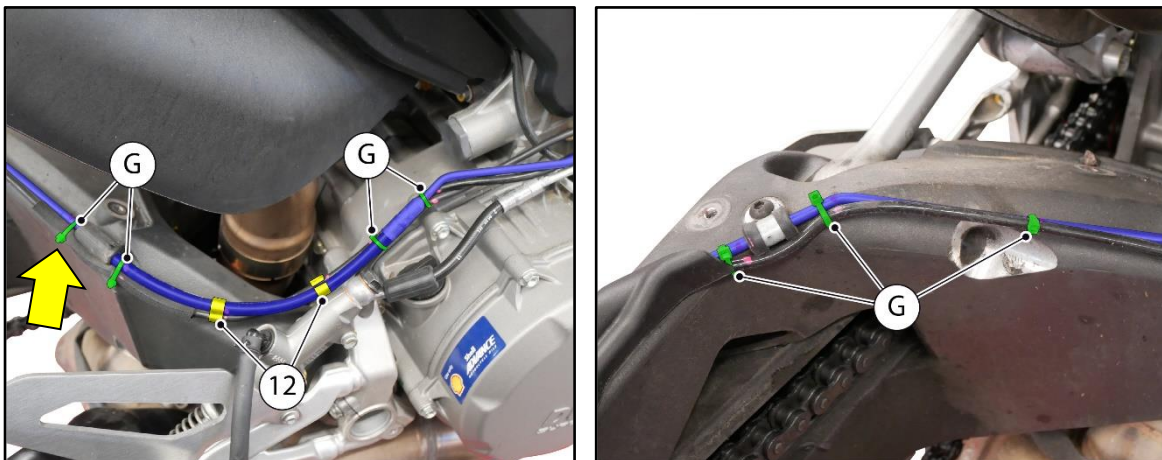


5. Use **7 small self-locking ties (G)** and **2 fast points (12)** to fix the rear brake caliper / ABS control unit hose with the rear speed sensor cable.



WARNING

Drive the small self-locking tie fully home on the protection sheath as shown in the figure shown with the yellow arrow.





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6. Fit the RH fairing (see Sec. 05: "Fairing installation - Fairing" of the Workshop Manual).
7. Refit the rear wheel (see Sec. 07: "Chassis - Rear wheel").

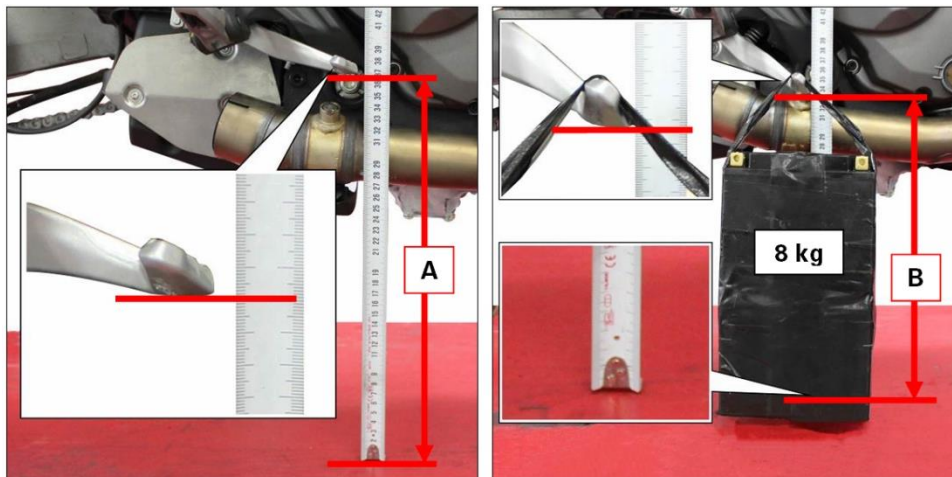
Part 7: Rear Brake Pedal Travel Check



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 (29) and (30).



CR237 – Rear Brake Hoses Replacement if Required

Panigale V2 MY2020-2021 (all country versions)
Technical Service Bulletin SRV-TSB-22-012



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 Customer.

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