



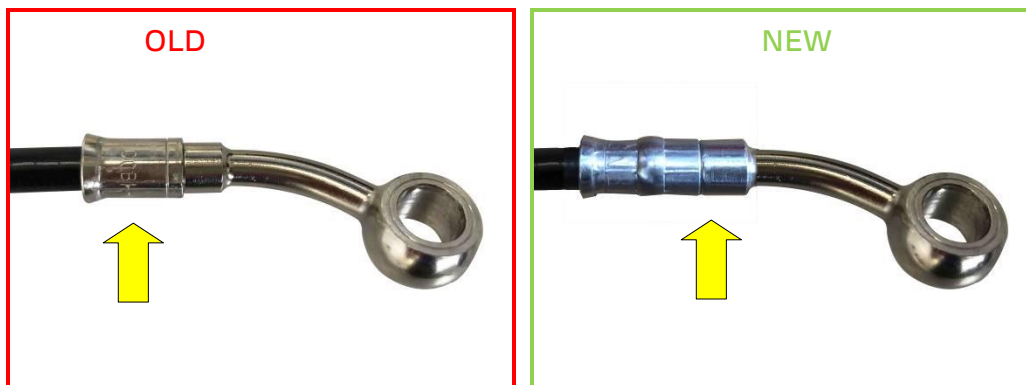
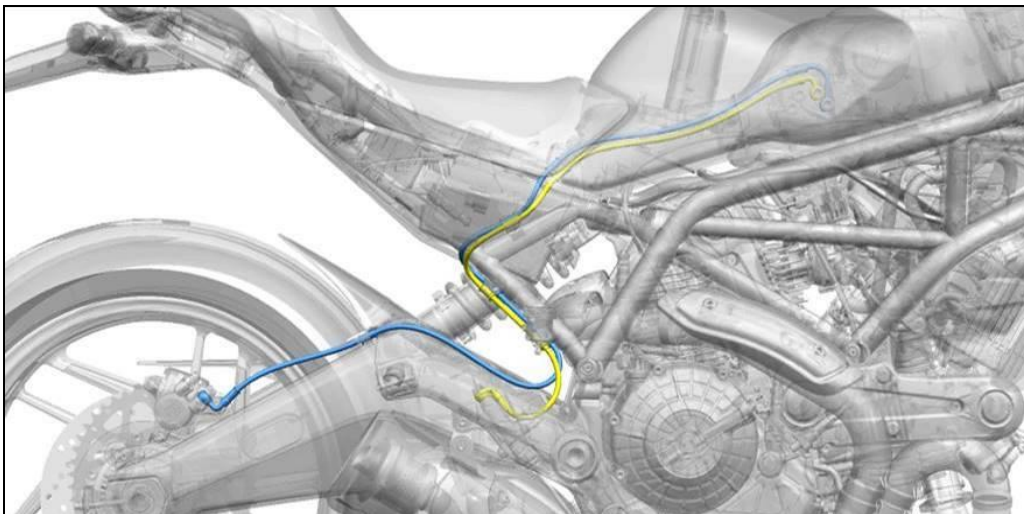
CR188 - Rear Brake Hoses Check and Replace if required

Monster 797 Model Year 2017-2020 (all models)
Technical Service Bulletin SRV-TSB-20-002

Date: April 9, 2020
To: Dealer Principal, General Manager, Service Manager, North American Dealer Network
From: Richard Kenton, Technical Director
Eric Bradley, Technical Training and Publications Manager

Dear Dealers,

Ongoing product quality testing and field reports have identified a potential for the rear brake application to soften over time as a consequence of use. To correct in cases of this occurrence, new rear brake hoses (ABS control unit to rear brake master cylinder – yellow, and ABS control unit to rear brake caliper - blue) are now available for the above listed model.



NOTE

All Monster 797 model versions currently produced and being shipped by DMH to all destinations have already been equipped with these new brake hoses



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Application

You can find the precise list of VIN numbers involved in CR188 on the DCS, in sections:

VIN HISTORY		It is possible to search by individual frame number.
CAMPAIGNS		It is possible to search for all the frame numbers that you received from Ducati Motor Holding.

MONSTER 797 RED 2020 CAL DMT					
VIN #	ML0MADBM2LT00 XXX	ENGINE #	ADBL9 XXX	LAST MILEAGE OPERATION	0 MI
END CUSTOMER	Corsa Moto Transport, Inc.	MANUFACT DATE	01/18/2020	INVOICE	03/18/2020
WARRANTY TYPE		STANDARD WTY START DATE		WTY END DATE	
SERVICE STATUS					

ATTENTION: YOU HAVE 1 PENDING RECALL CAMPAIGNS

N	TYPE	ID NUMBER	REPAIR DATE	DEFECT	CAUSAL PART	DEALER	MILEAGE
1	CAMPAIGN	CR188		SRV-TSB-20-002 Inspect and repl rear brake hose	Rear Brake Hose	<input type="button" value="VIEW"/> <input type="button" value="APPLY"/>	

Customer Impact

All motorcycles in your inventory (to be registered or already registered) and to be delivered to final Customers must be updated during pre-delivery operations and always before delivery to the final Customer. All motorcycles already delivered to final Customers must undergo this inspection as soon as they come to your workshop. Note: this is NOT a safety recall.

Parts Distribution

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

- 61911491A: ABS control unit / rear brake master cylinder hose
- 61911481A: ABS control unit / rear brake caliper hose
- 85250241A: Copper washers (8pcs)

The required self-locking ties (small (2 pcs) and large (4 pcs)) are easy to find consumables and should be sourced locally.



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Warranty Reimbursement Rules

Reimbursement for work associated with this Service Campaign will be made through the regular warranty claim procedure using the **"Vehicle History"** section of the DCS. The warranty claim is pre-filled and is identified as CR188. Two operation types are provided and described below:

Operation TYPE 1:

	Description	Spare Parts	Labor
TYPE 1	Check rear brake pedal travel	No Parts Required	

Operation TYPE 2:

	Description	Spare Parts	Labor
TYPE 2	Check rear brake pedal travel and replace rear brake lines	Rear brake hoses and washers	

Operation Type 2 includes reimbursement for the parts listed for the operation; copper washers (8) part no. 85250241A, ABS control unit / rear brake master cylinder hose Part no. 61911491A, ABS control unit / rear brake caliper hose Part no. 61911481A, the consumable ties and DOT 4 brake fluid; and labor for that includes the time necessary for :

- Vehicle reception
- Check Rear Brake Pedal Travel
- Rear brake hose removal (ABS control unit / brake master cylinder and ABS control unit / brake caliper)
- Installation of new rear brake hose assembly (ABS control unit / brake master cylinder and ABS control unit / brake caliper)
- Filling and bleeding procedure of the rear brake system
- Soft cleaning of the vehicle



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Spare Parts

Part No.	Description	Picture
61911491A	ABS control unit / rear brake master cylinder hose	
61911481A	ABS control unit / rear brake caliper hose	
85250241A	Copper washers (8pcs)	



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Service Solution

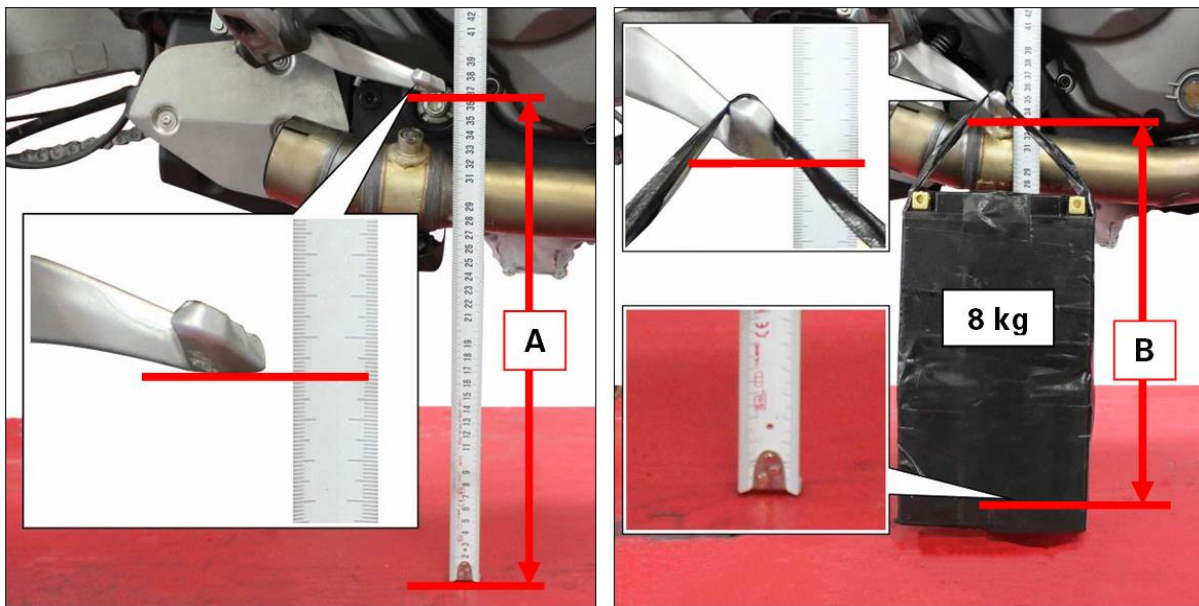


WARNING

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

Operation 1: Check rear brake pedal travel

1. Measure height **(A)** 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 **(B)** between rear brake lever lower end and load-bearing surface



3. The difference between the measured heights **(A)** and **(B)** must fall within the range:

A - B = between 15 mm to 23 mm

- a) If the difference between the measured heights **(A)** and **(B)** falls within the above range, no further action is required
- b) If the difference between the measured heights **(A)** and **(B)** is greater than 23 mm, proceed to the Operation 2: Rear Brake Line Replacement



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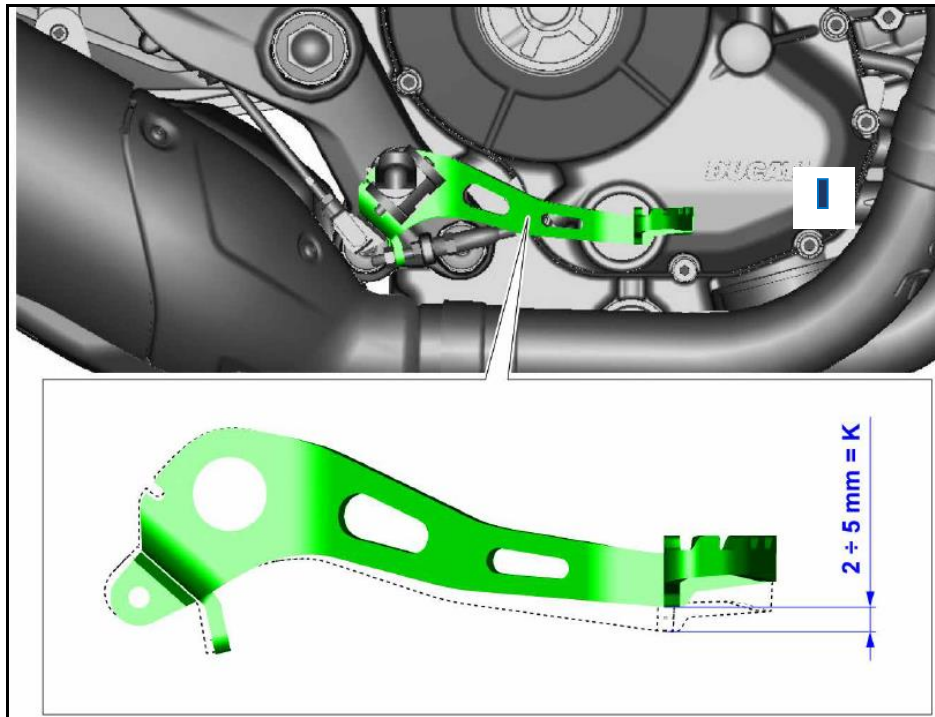
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WARNING

Before measuring the heights (A) and (B), always check that the free play travel of the rear brake lever is correct (between 2 mm to 5 mm)

Remember that the idle stroke refers to the stroke performed by the brake cylinder control rod before operating the pump. If the idle stroke is outside the specified values, it must be adjusted again using the adjustment screw on the control rod





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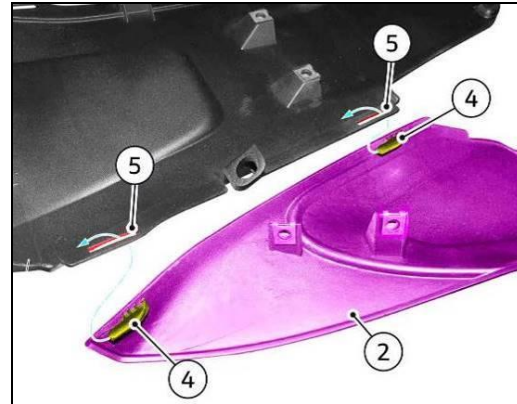
Operation 2 Rear Brake Line Replacement

Part 1: Vehicle preparation

1. Position the bike on the rear paddock stand
2. Drain all the oil contained inside the rear brake system



3. Remove the seat
4. Remove the fuel tank (See Sec.8: "Supply/exhaust system/Fuel tank" of the Workshop Manual)
5. Working on vehicle RH side, remove:
 - the 2 M5x12 screws (1) securing the cover (2) to the rear subframe
 - the M5x9 screw (3) securing the cover (2) to the rear central cover
6. Slide out cover (2) by releasing the 2 pins (4) from the relevant seats (5)



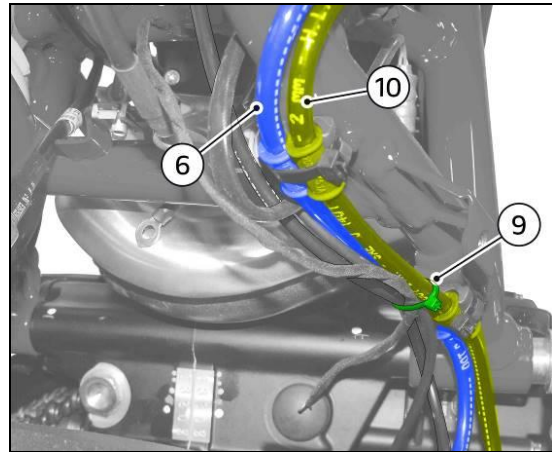
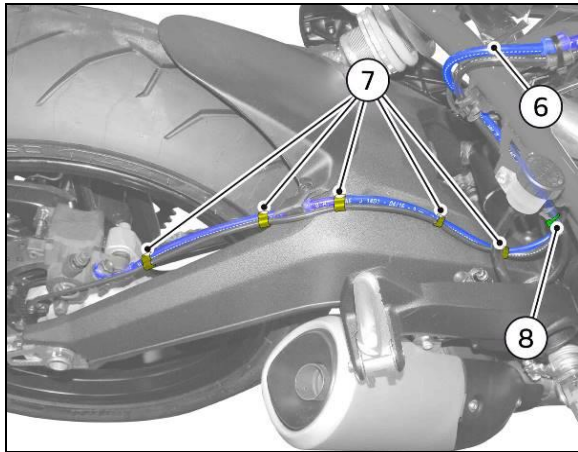


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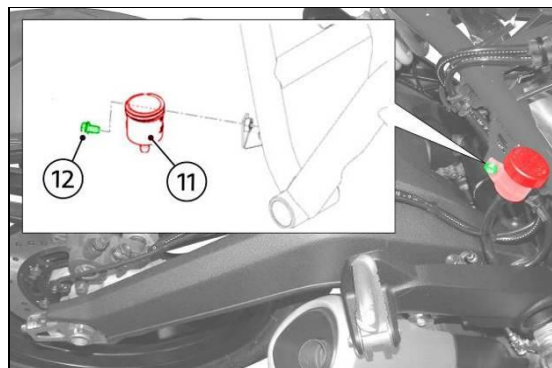
Part 2: Rear brake hose removal

1. Release the **hose (6)** connecting the ABS control unit to the rear brake caliper from:
 - the **5 fast points (7)** connecting the brake caliper hose to the rear speed sensor cable
 - the small self-locking **tie (8)** connecting the brake caliper hose to the rear speed sensor cable
 - the small self-locking **tie (9)** connecting the **caliper hose (6)** and the rear **brake master cylinder hose (10)** to the rear brake switch cable, the rear wheel speed sensor cable and the neutral switch cable



NOTE

To facilitate the removal of the tie (8) it is possible to remove the **tank (11)** for the rear brake oil by removal of the retaining **screw M6x10 (12)**

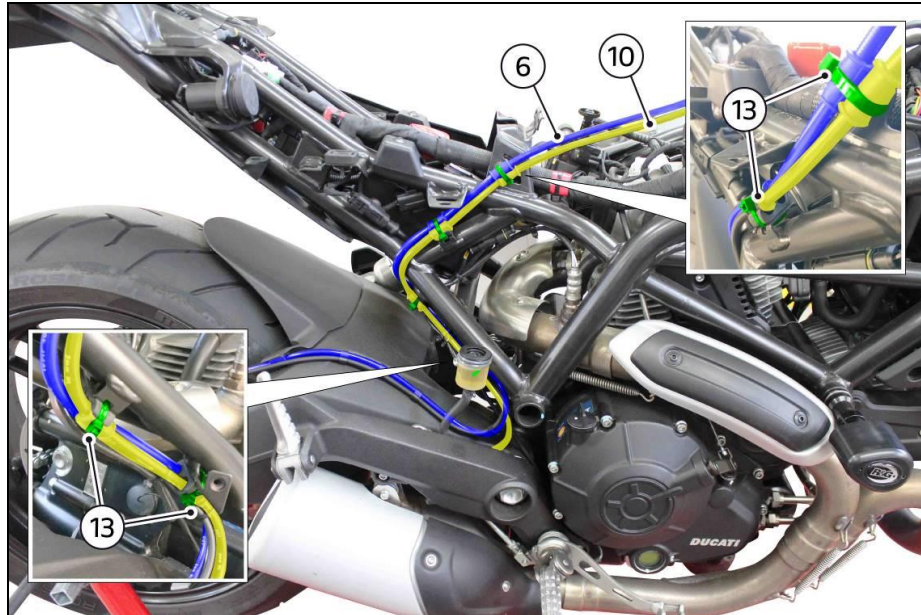




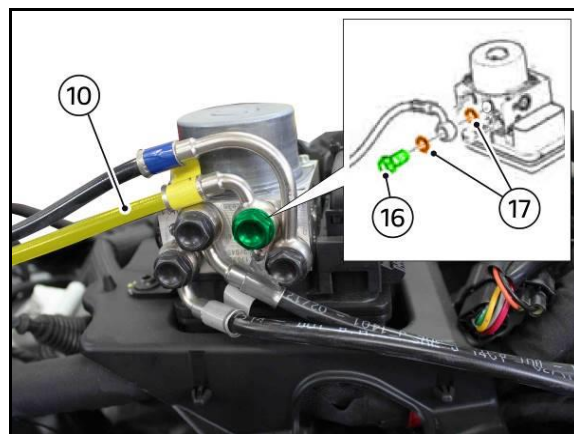
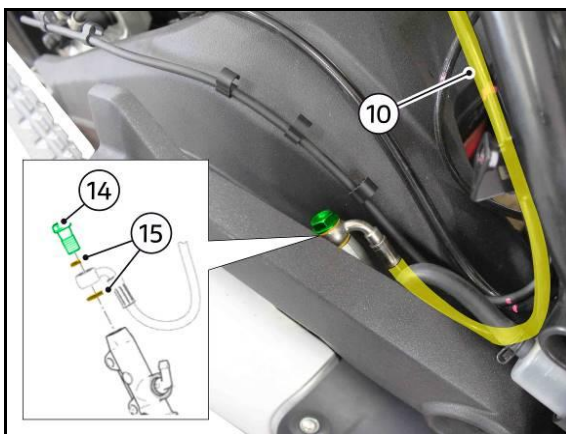
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- The 4 big self-locking ties (13) connecting the caliper hose (6) and the rear brake master cylinder hose (10) to the relevant rubber guides on the frame



2. Remove the special screw (14) with the 2 copper washers (15) securing brake hose (10) to rear brake master cylinder
3. Remove the special screw (16) with the 2 copper washers (17) securing brake hose (10) to the ABS control unit

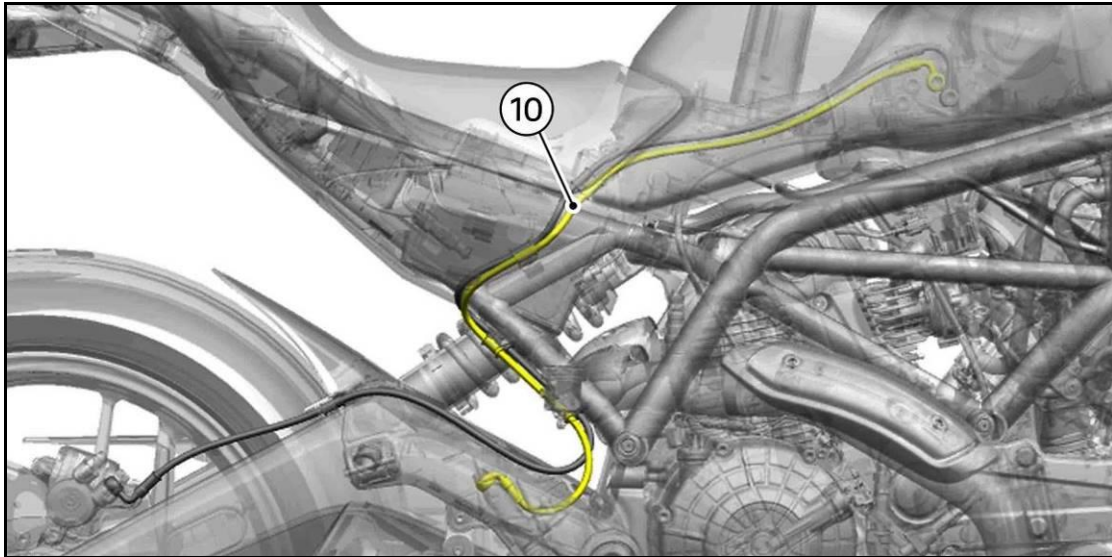




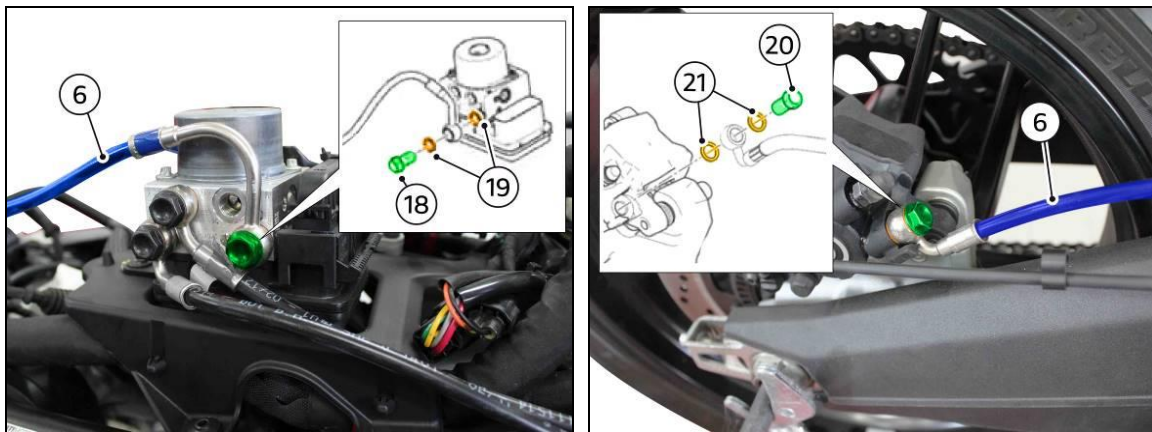
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4. Remove the **hose (10)** connecting the rear brake master cylinder to the ABS control unit



5. Remove the **special screw (18)** with the 2 **copper washers (19)** securing **hose (6)** to the ABS control unit
6. Remove the **special screw (20)** with the 2 **copper washers (21)** securing the **hose (6)** to rear brake caliper

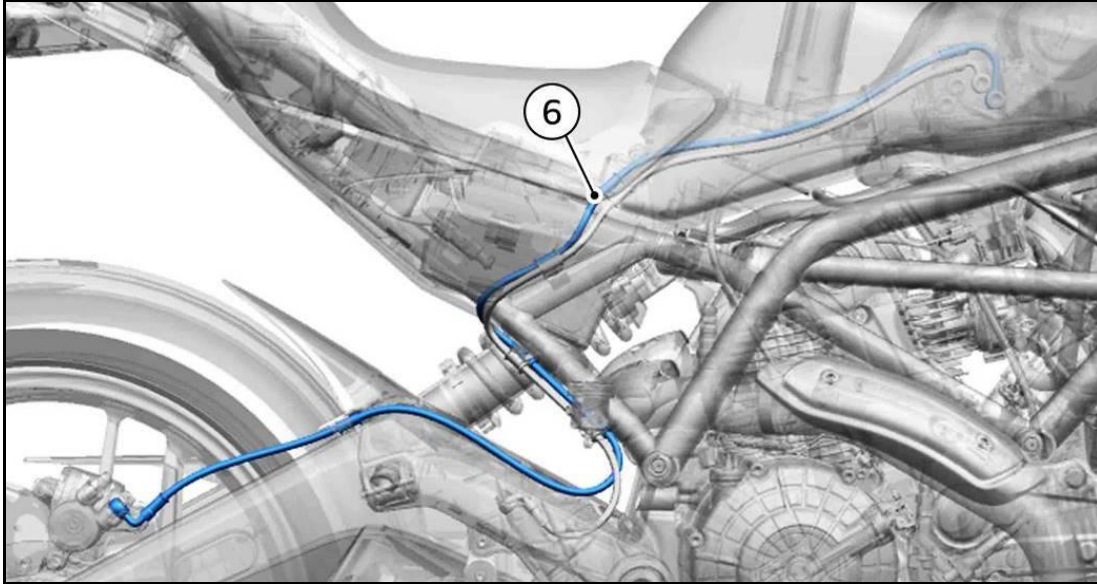




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7. Remove Pull out the **hose (6)** connecting the rear brake caliper to the ABS control unit



Part 3: New rear brake hose installation

1. Take the new **brake hose (A)** connecting the ABS control unit to the rear brake caliper



NOTE

The new brake hose can be recognized by the different chamfering that characterizes the end part of the fittings

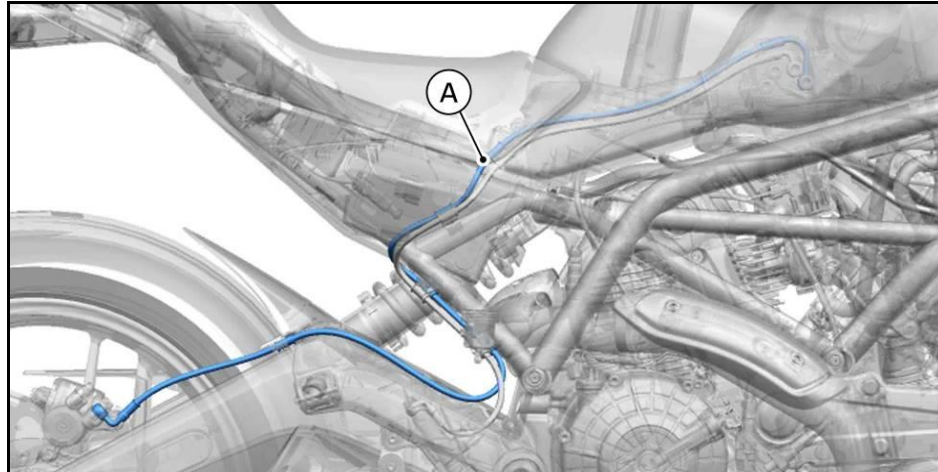




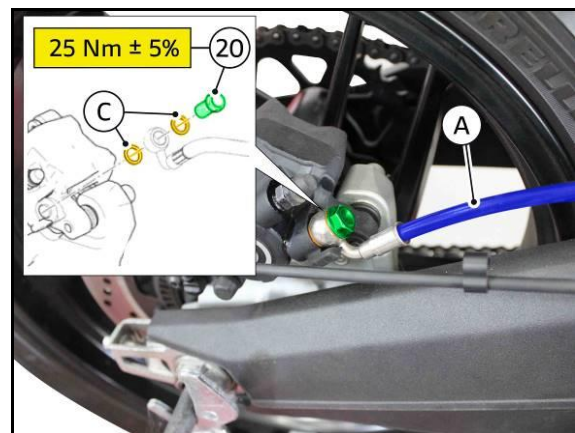
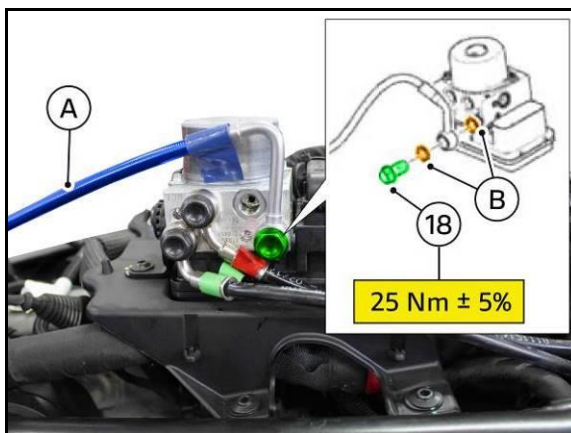
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2. Install the new hose (A) connecting the ABS control unit to the rear brake caliper on the vehicle, as shown in the figure



3. Fasten the ABS control unit fitting to the control unit as shown in the figure, using 2 new copper washers (B) and tighten the special screw (18) to **25 Nm ± 5% with certification**
4. Fasten the rear brake caliper fitting, aiming it as shown in the figure, using 2 new copper washers (C) and tighten the special screw (20) to **25 Nm ± 5% with certification**





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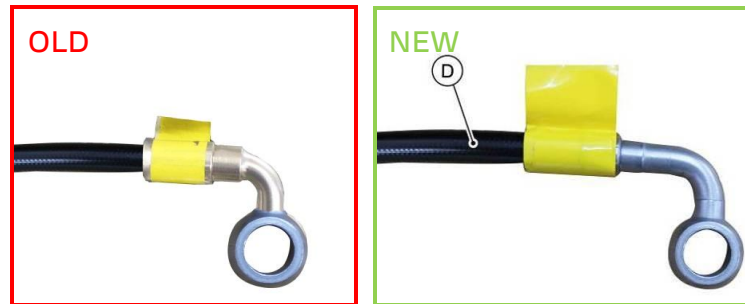
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5. Take the new **brake hose (D)** connecting the ABS control unit to the rear brake caliper

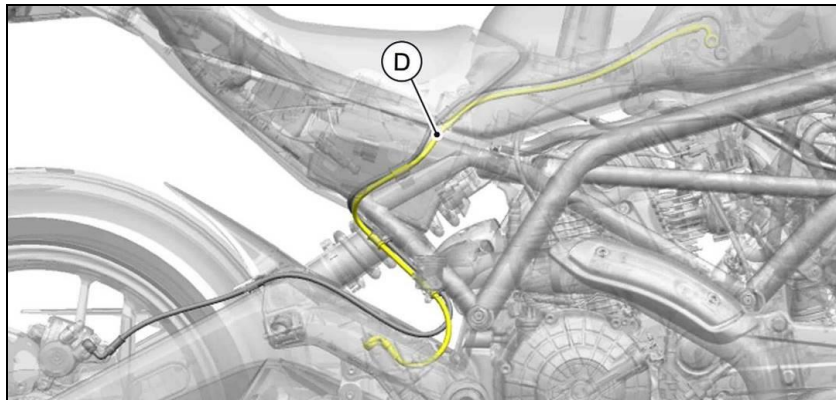


NOTE

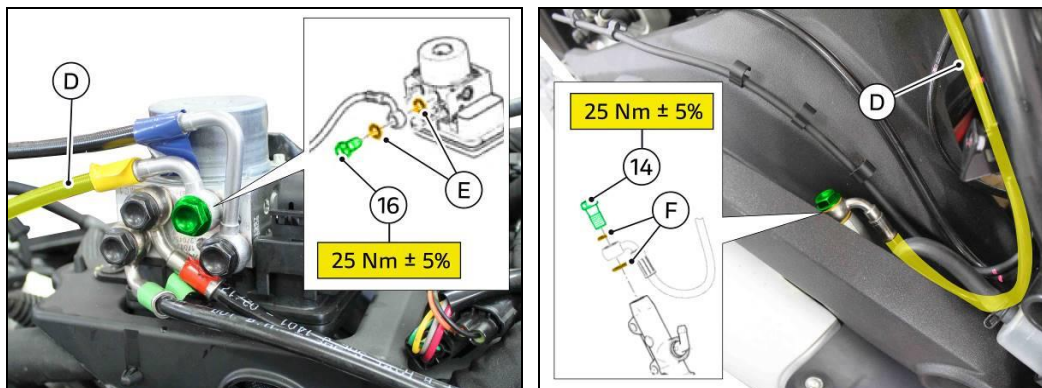
The new brake hose can be recognized by the different chamfering that characterizes the end part of the fittings



6. Install the new **hose (D)** connecting the ABS control unit to the rear brake caliper on the vehicle, as shown in the figure



7. Fasten the ABS control unit fitting to the control unit as shown in the figure, using **2 new copper washers (E)** and tighten the **special screw (16)** to **25 Nm ± 5% with certification**
8. Fasten the rear brake caliper fitting, aiming it as shown in the figure, using **2 new copper washers (F)** and tighten the **special screw (14)** to **25 Nm ± 5% with certification**





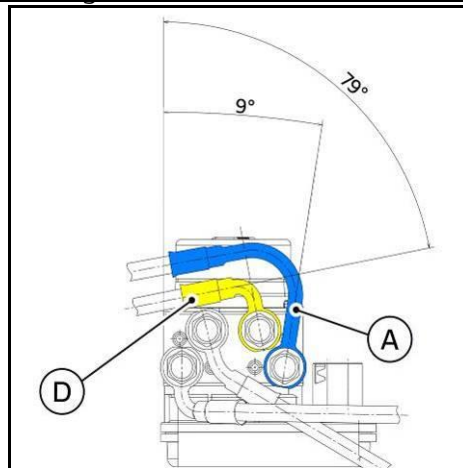
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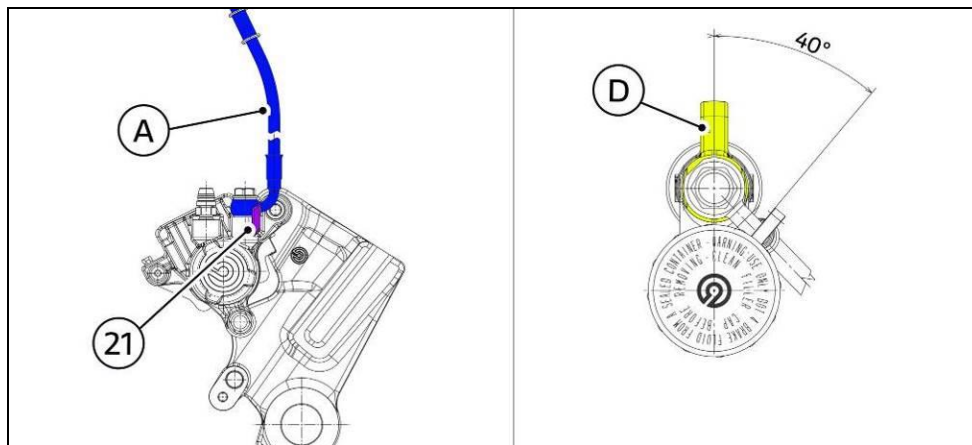
WARNING

Make sure that **brake hose (A)** and **brake hose (D)** fittings are aimed on the ABS control unit as shown in the figure and check also that there are no interferences



WARNING

Make sure that the **brake hose (A)** fitting is aimed on the rear brake caliper as shown in the figure and is fully home on **plate (21)** of the caliper holder plate.
Make sure the **brake hose (D)** fitting is aimed on the rear brake master cylinder as shown in the figure

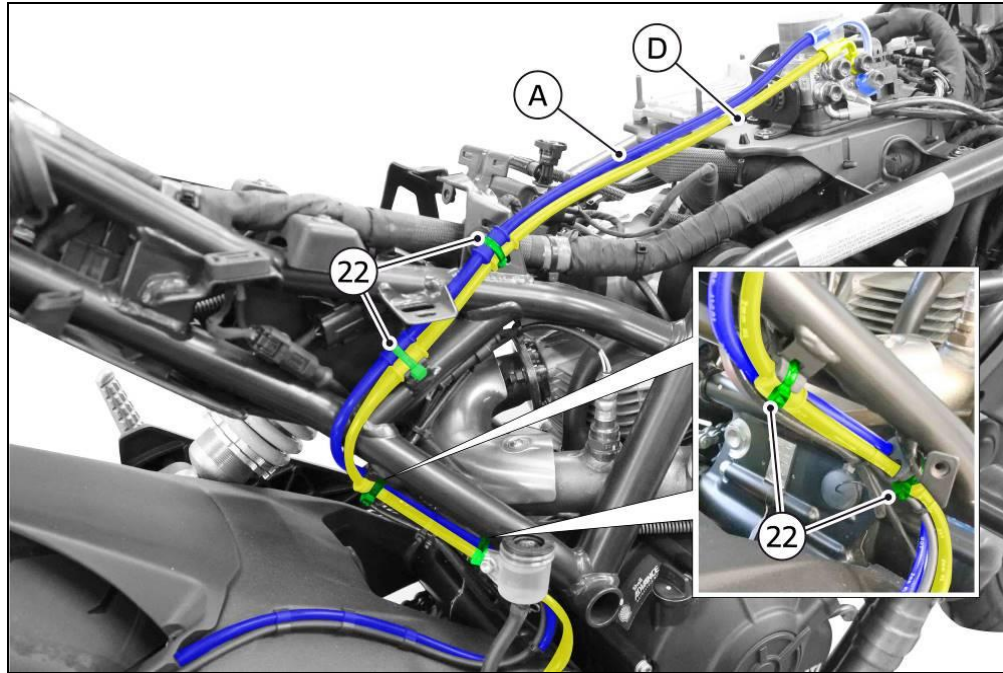




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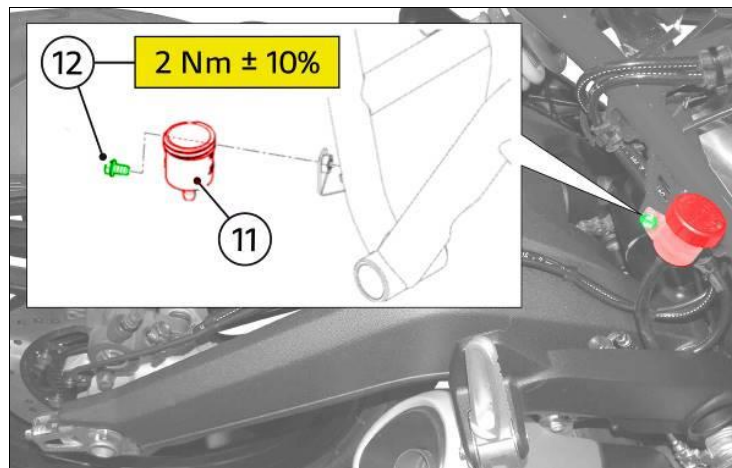
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- Slide the new hoses (A) and (D) inside the 4 rubber guides on the frame by positioning them as shown in the figure and fixing them with 4 new big self-locking ties (22)



NOTE

In case of rear brake oil tank (11) removal, proceed with the installation as shown in the figure. Tighten the retaining screw M6x10 (12) to 2 Nm ± 10%

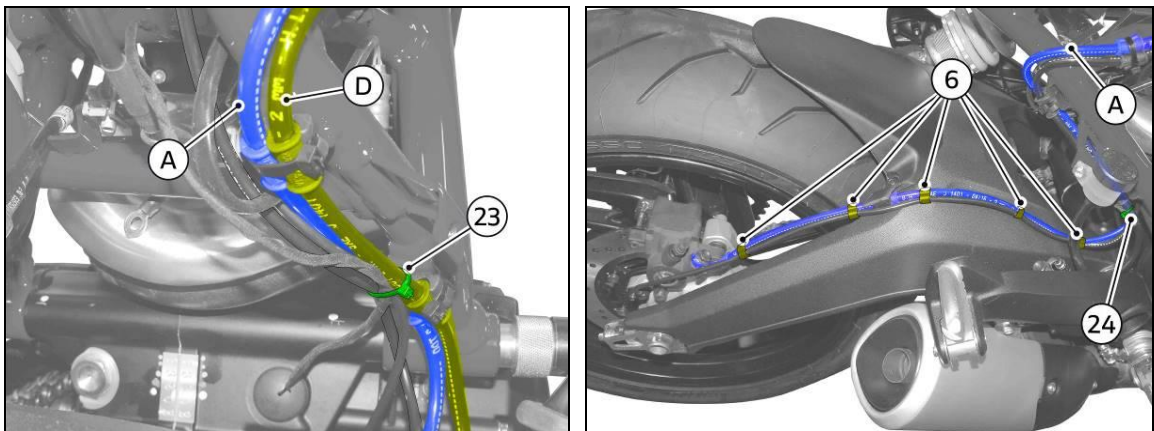




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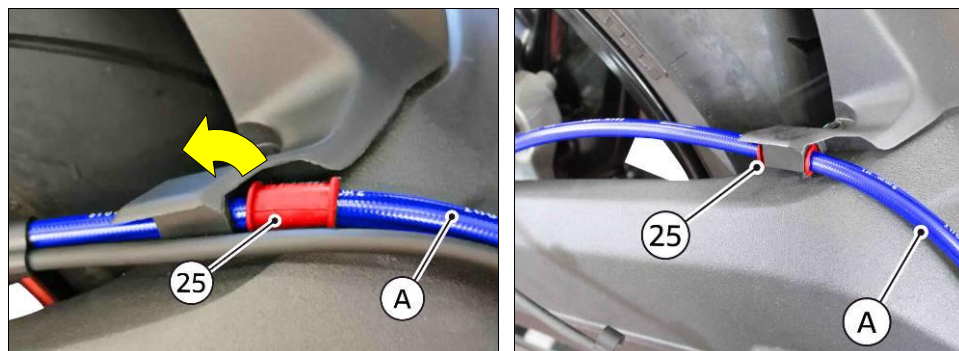
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10. Install the new small self-locking **tie (23)** connecting the **caliper hose (A)** and the rear brake **master cylinder hose (D)** to the rear brake switch cable, the rear wheel speed sensor cable and the neutral switch cable as shown in the figure.
11. Install the new small self-locking **tie (24)** connecting the rear brake caliper hose to the rear speed sensor cable as shown in the figure.
12. Connect the **hose (A)** to the rear speed sensor cable using the **5 fast points (6)** as shown in the figure.



NOTE

Make sure the **rubber seal (25)** on **hose (A)** is correctly inserted into the relevant seat on the rear mudguard, otherwise move the rubber seal in order to properly insert it.





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Part 4: Rear brake system filling and bleeding

1. Proceed with the DOT4 fluid filling inside the rear brake system and bleed the system following the procedure indicated for the Monster family.



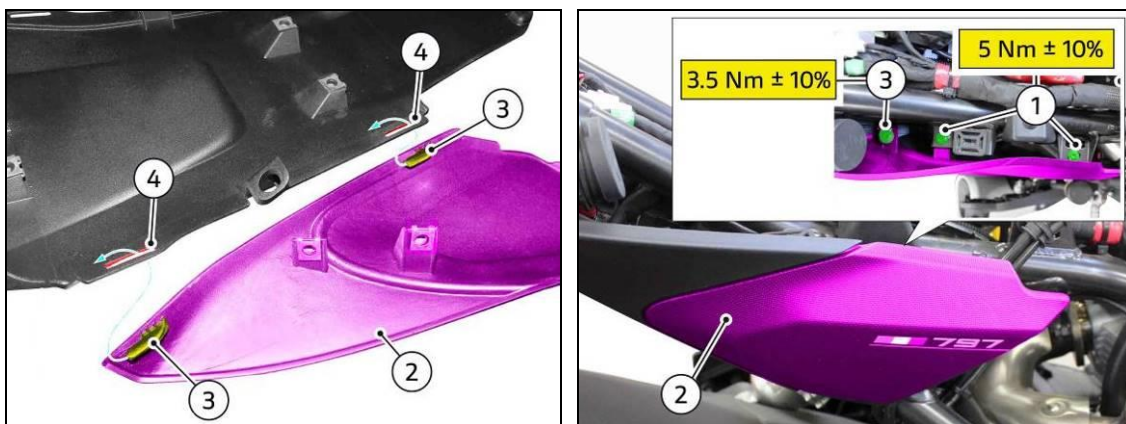
WARNING

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



Part 5: Vehicle Refitting

1. By working on the right side of the vehicle, install the **cover (2)** by inserting the **2 pins (3)** in the relevant **seats (4)**
2. Tighten the **2 M5x12 screws (1)** securing the **cover (2)** to the rear subframe to **5 Nm ±10%**
3. Tighten the **M5x9 screw (3)** that retains the **cover (2)** to the rear central cover to **3.5 Nm ± 10%**

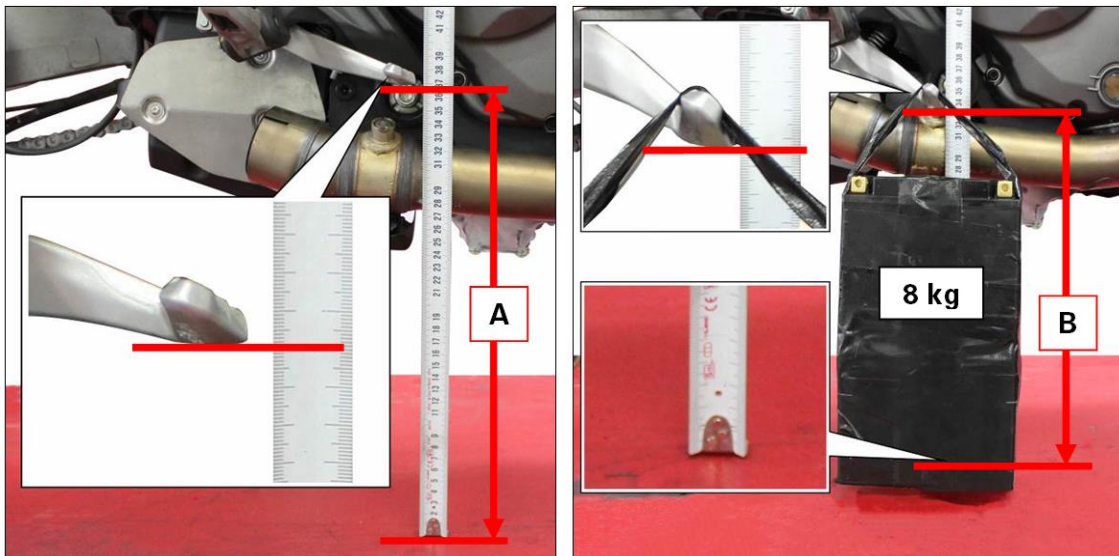




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4. Fit the fuel tank (see Sec.8: "Supply/exhaust system/Fuel tank" of the Workshop Manual)
5. Fit the seat
6. Start the engine and keep it at idle until reaching the fan activation condition
7. Connect the DDS 2.0 diagnosis instrument and run a Global Scan
8. Measure height **(A1)** between rear brake lever lower end and load-bearing surface; brake lever must be in rest position (upper limit stop)
9. Slowly position the 8 kg weight onto rear brake lever; then measure height **(B1)** between rear brake lever lower end and load-bearing surface



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

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

11. Road test 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**
12. Measure again the rear brake lever stroke as referred to in steps 8 and 9
13. Note the difference between the measured heights **(A2)** and **(B2)**

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

14. Compare the 2 stroke values of the rear brake lever



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15. If a stroke increase of the rear brake lever is detected, repeat the complete bleed procedure
16. Once the new bleeding procedure is completed, check that the stroke of the rear brake lever has not increased
17. Perform a soft cleaning of the bike before delivering it to the Customer

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