



CR193 - Rear Brake Hoses Check and Replace if required

Monster 1200 Model Year 2017-2020 (all versions)

Monster 1200S Model Year 2017-2020 (all versions)

Technical Service Bulletin SRV-TSB-20-006

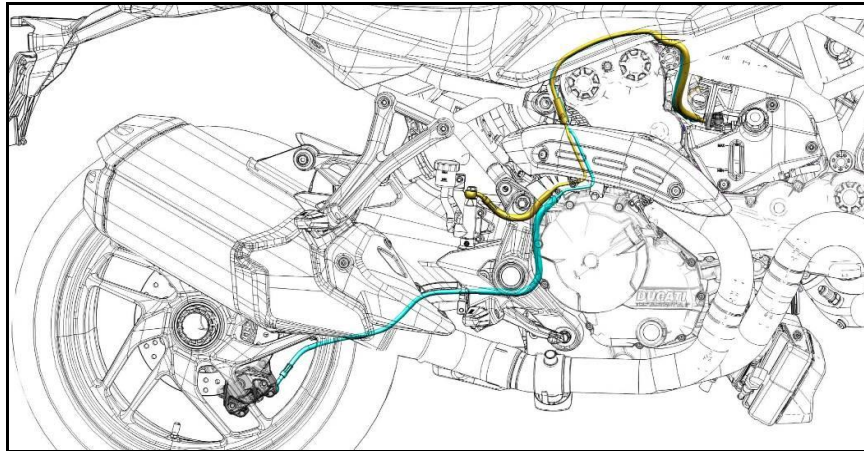
Date: May 22, 2020

To: All required parties in descending order, 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 1200 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 CR193 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 1200S RED 2018 CAL DMH					
VIN #	ZDMMACFW9JB0 XXX	ENGINE #	ACFJ0 XXX	LAST MILEAGE OPERATION	17 MI
END CUSTOMER	Corsa Moto Transport, Inc.	MANUFACT DATE	04/09/2018	INVOICE	06/04/2019
WARRANTY TYPE	Standard Warranty	STANDARD WTY START DATE	12/28/2019	WTY END DATE	12/27/2021
SERVICE STATUS					

ATTENTION: YOU HAVE 1 PENDING RECALL CAMPAIGNS

N	TYPE	ID NUMBER	REPAIR DATE	DEFECT	CAUSAL PART	DEALER	MILEAGE
1	CAMPAIGN	CR193		SRV-TSB-20-006 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.

- 61911301A: ABS control unit / rear brake master cylinder hose
- 61911291A: ABS control unit / rear brake caliper hose
- 85250241A: Copper washers (8pcs)

The required self-locking ties (small (6 pcs) and large (13 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 “VIN History” section of the DCS. The warranty claim is pre-filled and is identified as CR193. 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. 61911301A, ABS control unit / rear brake caliper hose Part no. 61911291A, 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
61911301A	ABS control unit / rear brake master cylinder hose	
61911291A	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

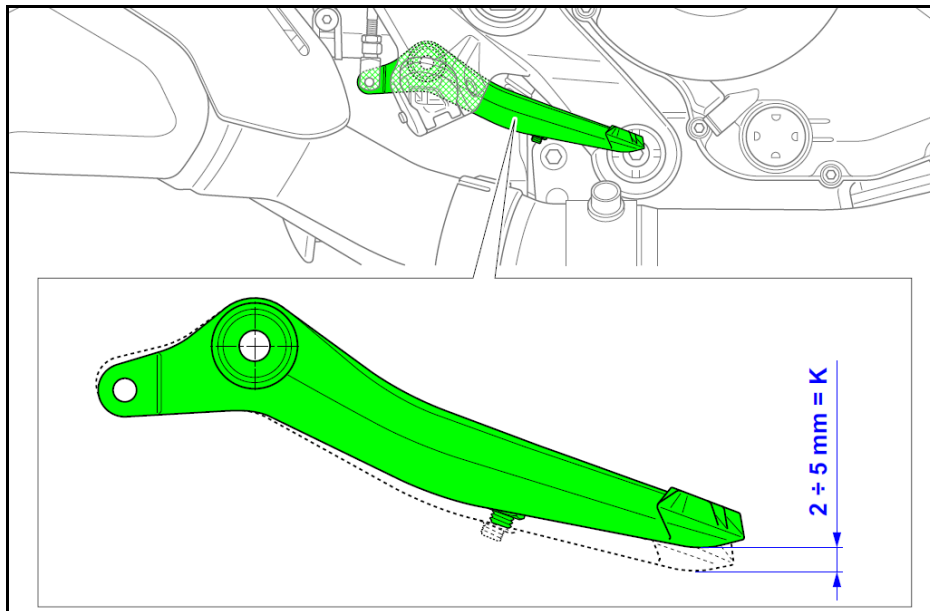
Operation 1: Check rear brake pedal travel



WARNING

Before measuring the heights (A) and (B) in following steps, 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 using the adjustment screw on the control rod.





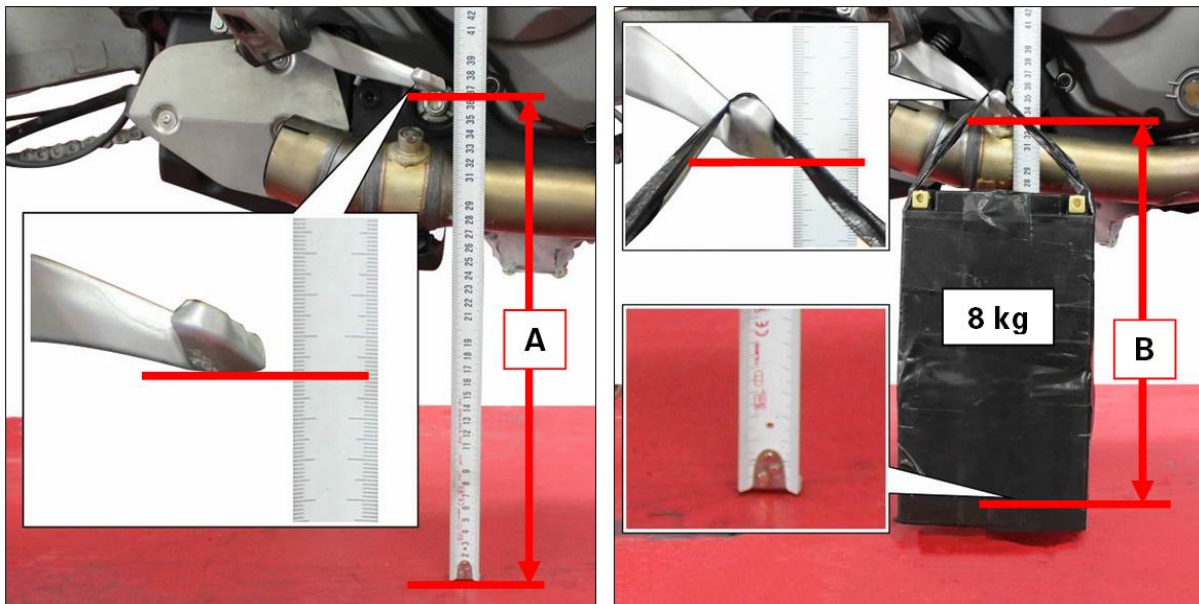
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1. Measure height **(A)** between rear brake lever lower end and load-bearing surface; brake lever must be in rest position (upper limit stop)
2. Slowly position the 8 kg weight onto rear brake lever; then measure height **(B)** between rear brake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



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

$$A - B = \text{between } 15 \text{ mm to } 23 \text{ mm}$$

- 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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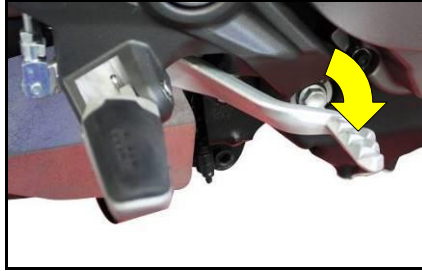
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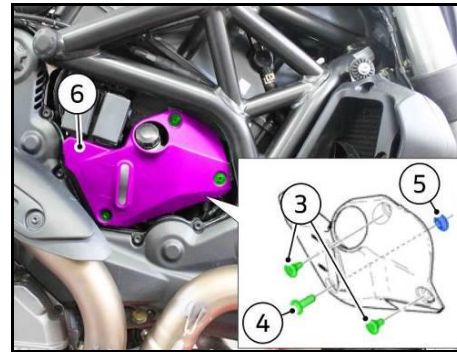
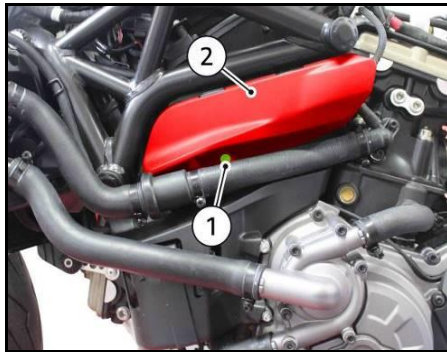
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Operation 2 Part 1: Vehicle preparation

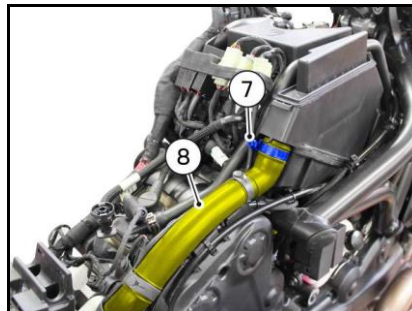
1. Position the bike on the rear paddock stand
2. Remove the rear wheel (See Sec. 7: "Chassis – Rear wheel" of the Workshop Manual)
3. Drain all the oil contained inside the rear brake system



4. Remove the seat
5. Remove the fuel tank (See Sec.8: "Fuel/exhaust system – Fuel tank" of the Workshop Manual)
6. Working on the LH side, remove **screw M5x10 (1)** retaining **cover (2)** and pull it up to remove it
7. Working on the RH side, remove **2 screws M5x9 (3)** and **screw M6x22 (4)** with relevant **spacer (5)** retaining coolant reservoir **cover (6)** and pull it out



8. Loosen **clamp (7)** and pull out Crankcase ventilation **hose (8)** from the Airbox

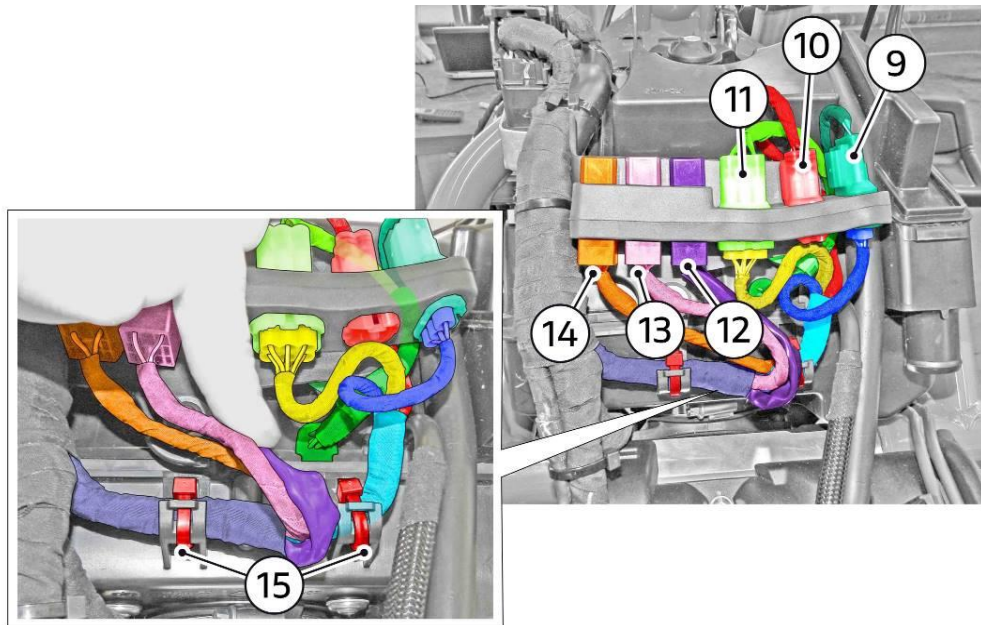




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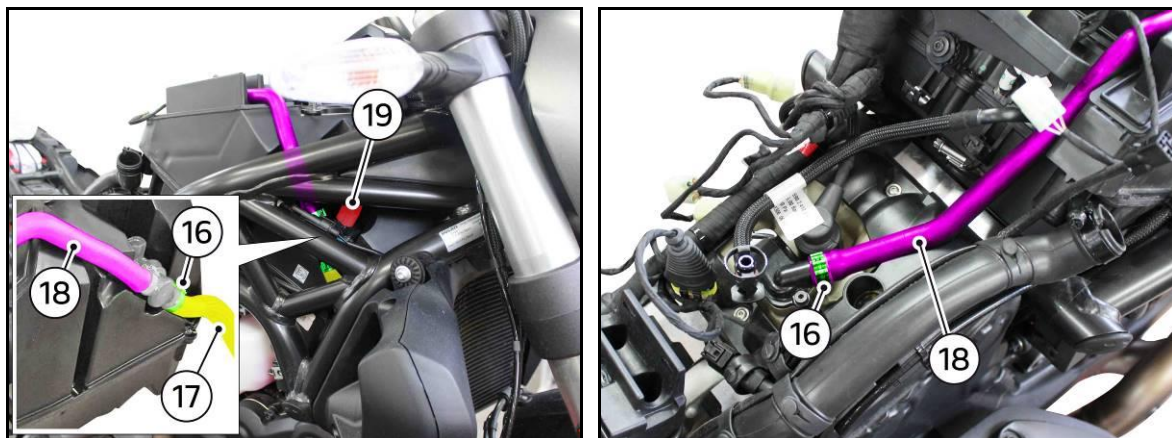
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9. Disconnect injector wiring **connector (9)**, vertical lambda sensor **connector (10)**, potentiometer wiring **connector (11)** and pull out starter **relay (12)**, injection **relay (13)** and fuel pump **relay (14)**
10. Remove the 2 large self-locking ties **(15)**



11. Working on vehicle RH side:

- 11 A. Remove the 2 click clamps **(16)** and pull out the horizontal head secondary air hose **(17)** and the vertical head secondary air hose **(18)**
- 11 B. Disconnect secondary air (AIS) **connector (19)**





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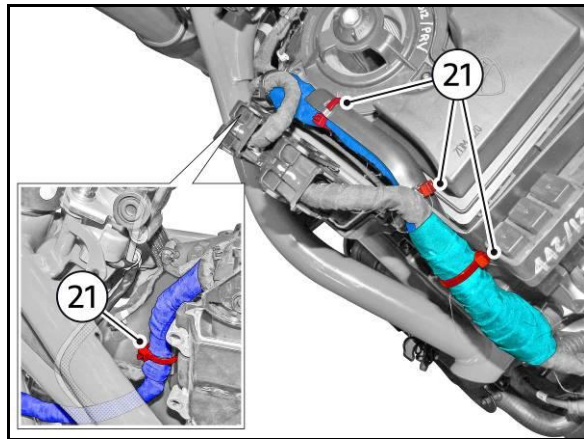
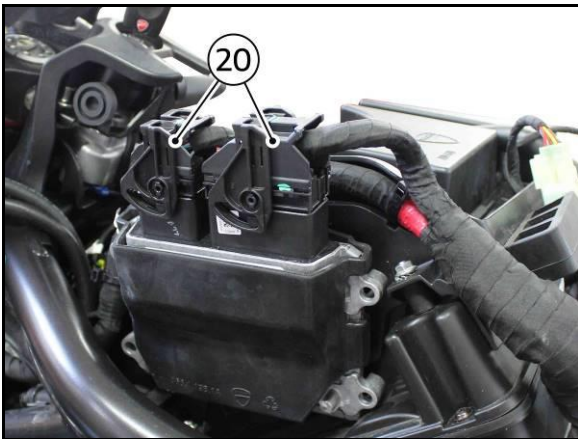
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12. Working on vehicle LH side:

12 A. Disconnect the 2 connectors (20) of engine ECU

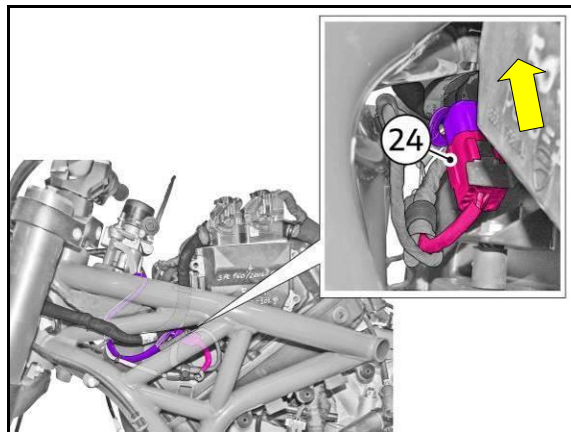
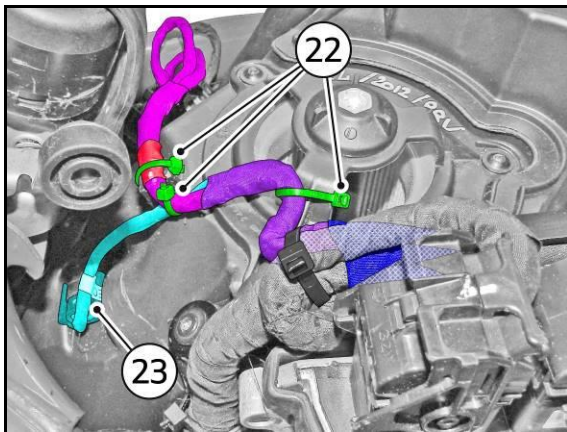
12 B. Remove the 4 large self-locking ties (21)



12 C. Remove the 3 small self-locking ties (22)

12 D. Disconnect the air temperature sensor connector (23)

12 E. Pull out ignition switch connector (24) from the relevant tab present on the Airbox.





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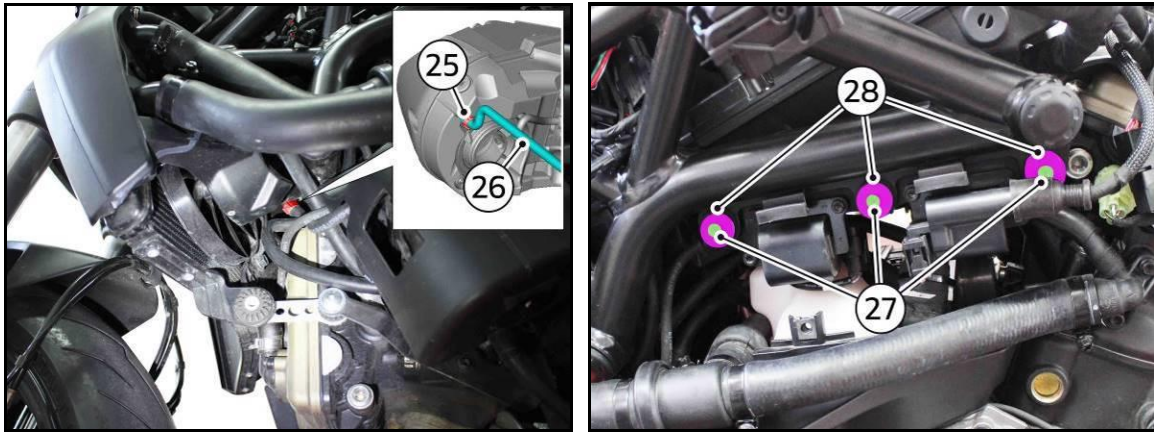
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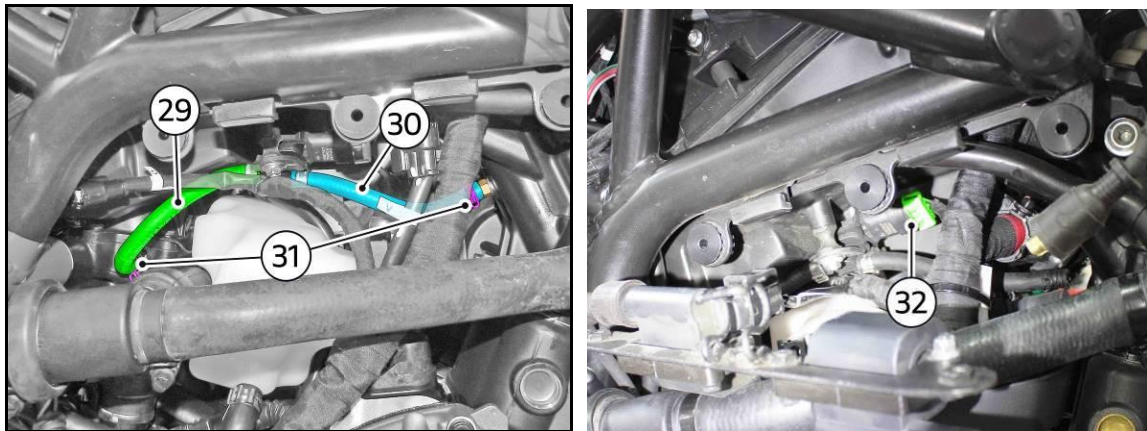
12 F. Remove click **clamp (25)** and pull out Airbox drain **hose (26)**

12 G. Remove **3 screws M5x20 (27)** with relevant **spacers (28)** retaining coil support bracket to access the map sensor connector



12 H. Pull out horizontal head pressure sensor **hose (29)** and vertical head pressure sensor **hose (30)** by removing the **2 clamps (31)**

12 I. Disconnect the map sensor **connector (32)**

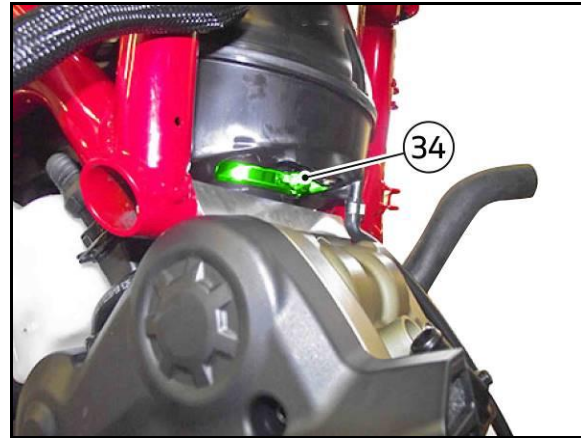
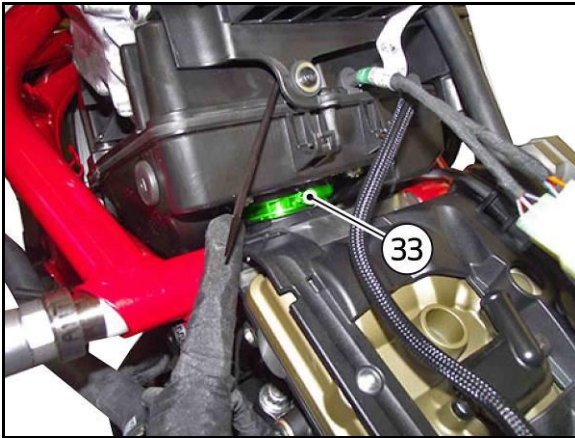




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13. Working on vehicle RH side, loosen **clamp (33)** positioned on the vertical cylinder head, while on the LH side, loosen **clamp (34)** positioned on the horizontal cylinder head.
14. Remove the Airbox from the vehicle



15. Protect the engine with a cloth near the ABS control unit and cover the intake manifolds as shown in the figure to avoid the possible penetration of brake fluid or impurities inside the manifolds.



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. Damage to motorcycle finishes and components due to brake fluid contact during repairs is not warrantable and is the responsibility of the dealer to remedy





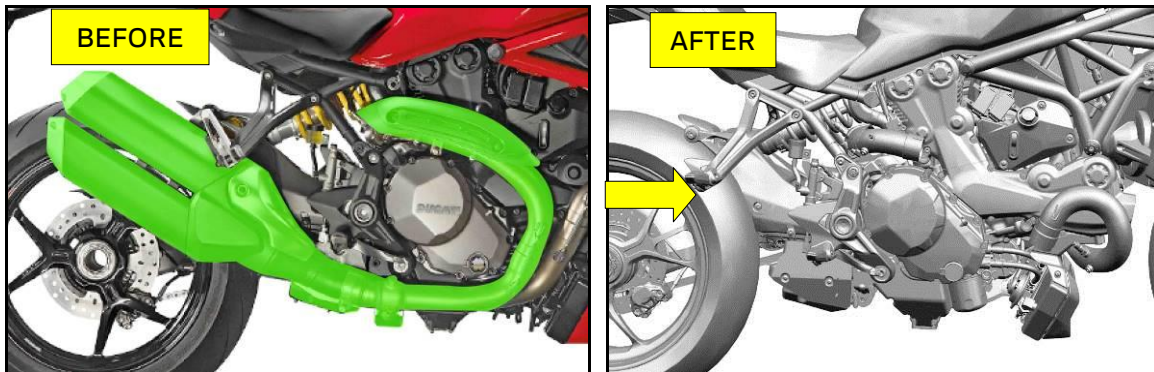
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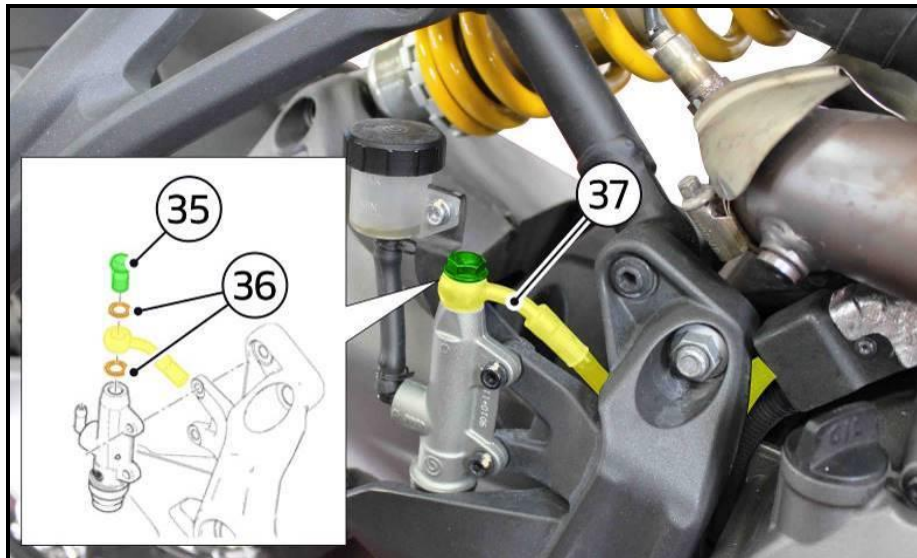
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16. Remove the silencer (See Sec.8: "Fuel/exhaust system – Exhaust system" of the Workshop Manual).
17. Remove the vertical head exhaust midpipe (See Sec.8: "Fuel/exhaust system – Exhaust system" of the Workshop Manual)



18. Remove the special screw (35) with the 2 copper washers (36) securing brake hose (37) to rear brake master cylinder





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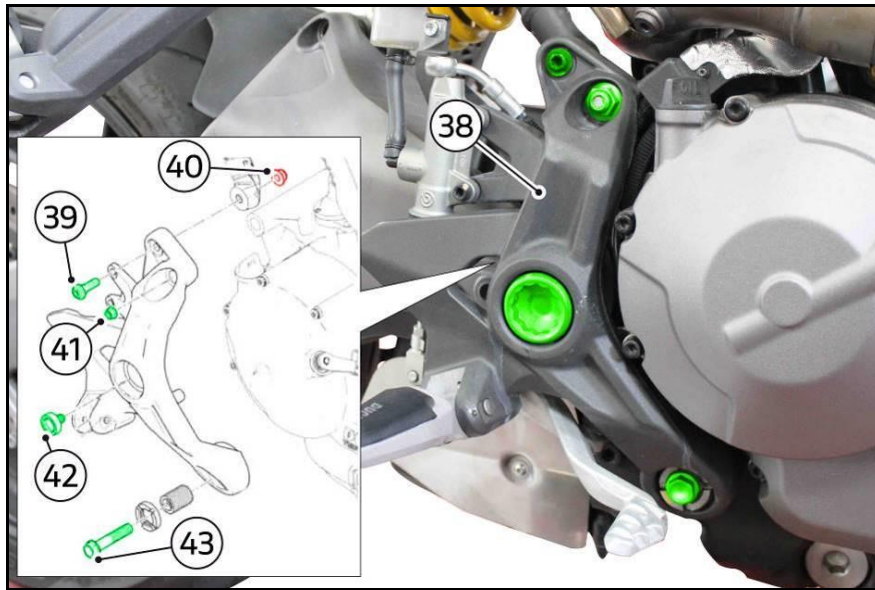
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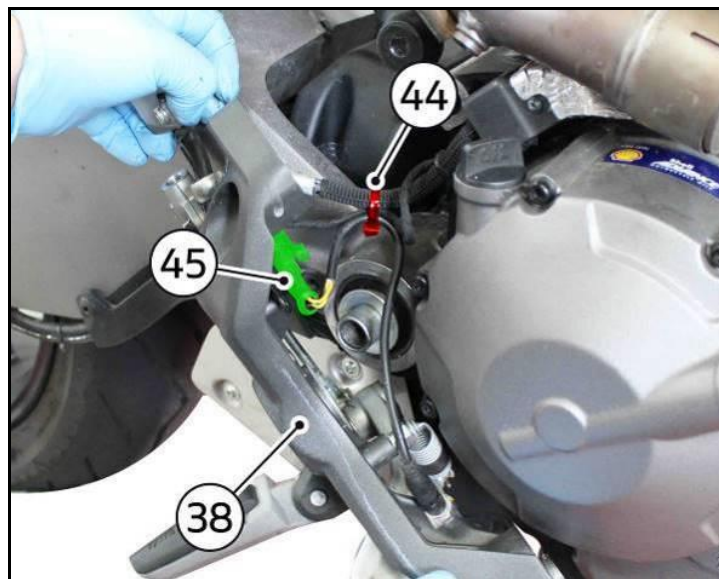
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19. To pull out the RH front footpeg holder **plate (38)** assembly remove:

- the **special screw (39)** while holding nut **M8 (40)**
- the **nut (41)** while holding it on the opposite side
- the **special screw (42)**
- the **screw M10x50 (43)**



20. Pull out the RH front footpeg holder **plate (38)** by removing self-locking **tie (44)** and disconnect rear stop light **connector (45)**





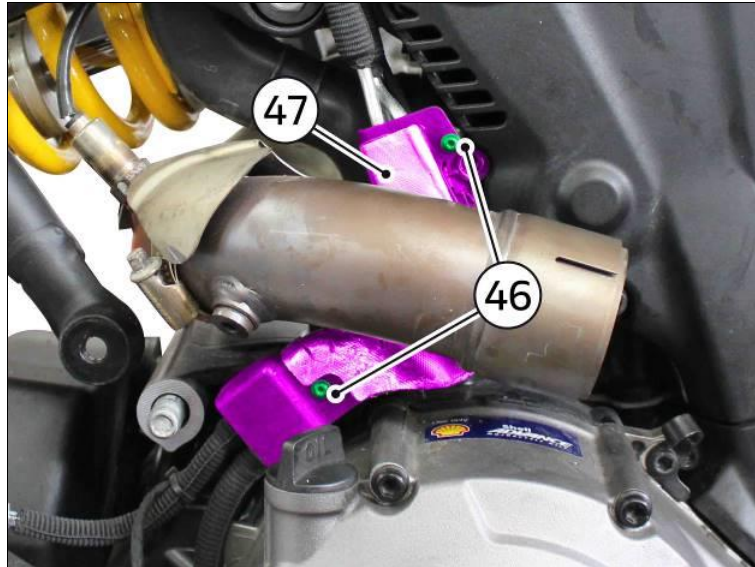
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21. Remove the 2 self-tapping screws (46) and slide out the cover (47)



NOTE

To make **cover (47)** removal easier, follow the sequence below:

- move the cover towards motorcycle front end
- turn cover downwards to release its end from the exhaust manifold
- slide out the cover towards motorcycle front end





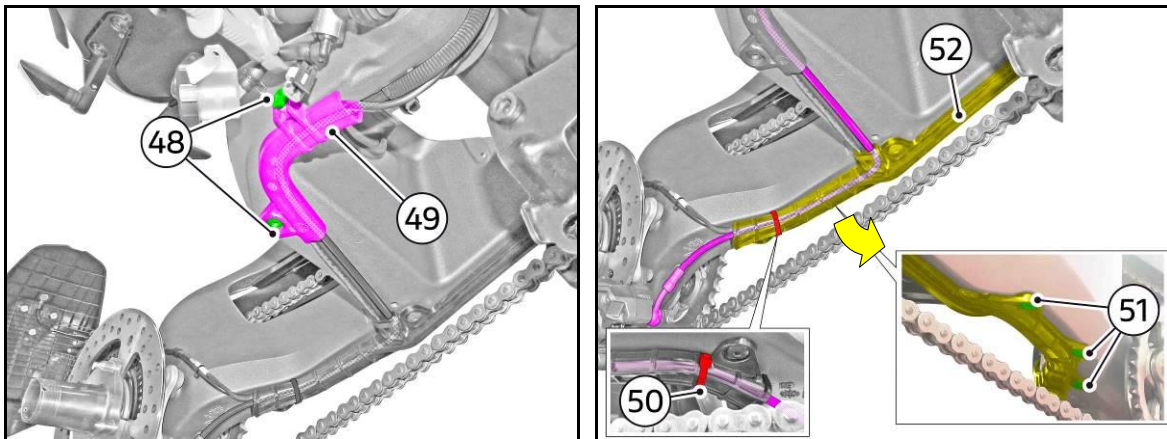
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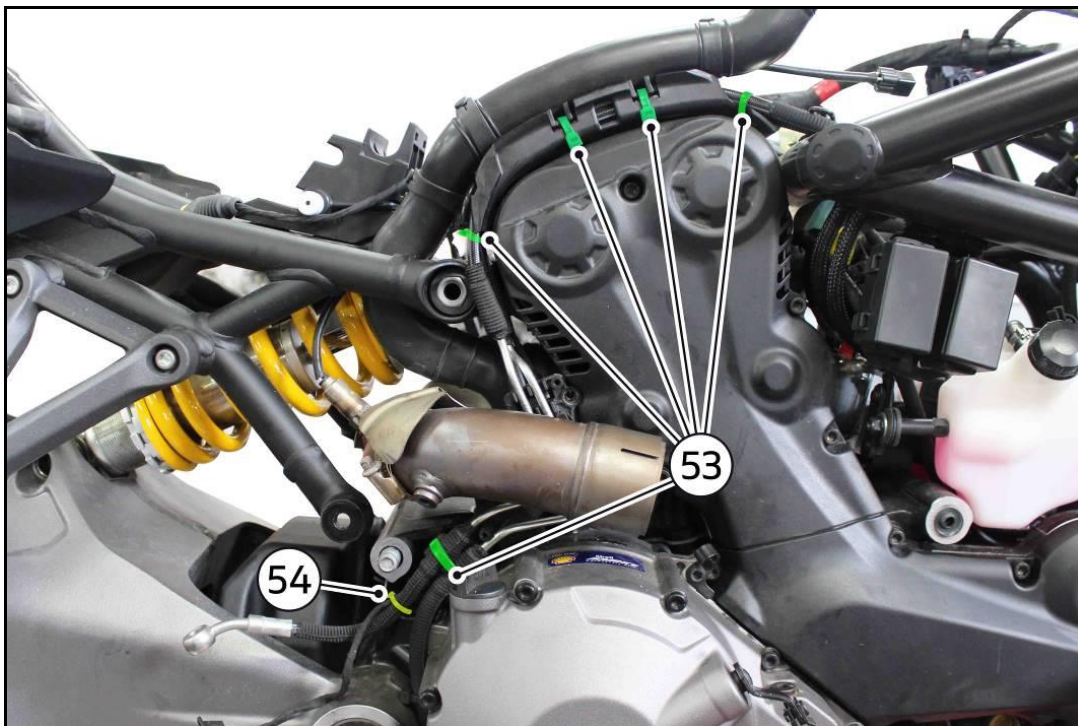
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22. Remove the 2 screws M5x12 (48) and pull out hose guide (49)
23. Remove the large self-locking tie (50) and the 3 screws M5x12 (51) to release the rear brake hose without fully removing the chain sliding shoe (52)



24. To remove the ABS control unit - brake master cylinder and ABS control unit - rear brake caliper hoses, remove the 5 large self-locking ties (53) and the small self-locking tie (54)





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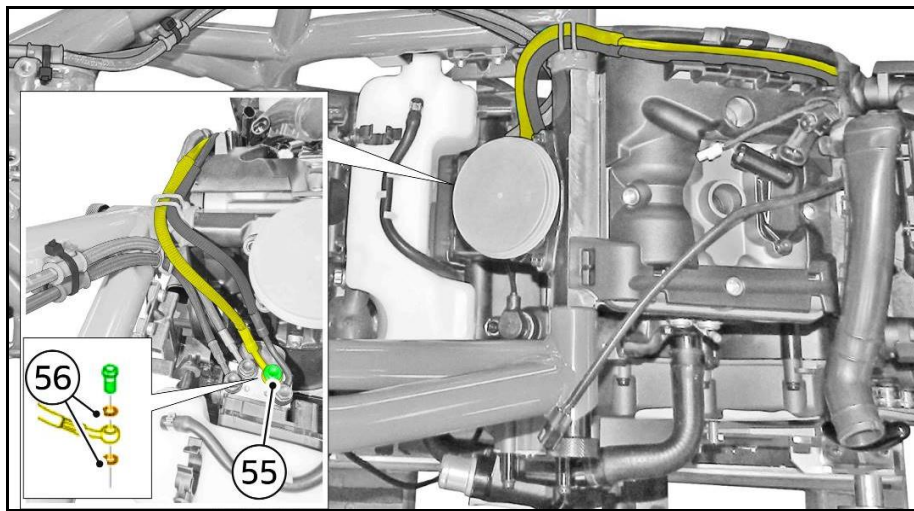
Part 2: Rear brake hose removal

1. Working on ABS control unit, remove the **special screw (55)** with the **2 copper washers (56)**.

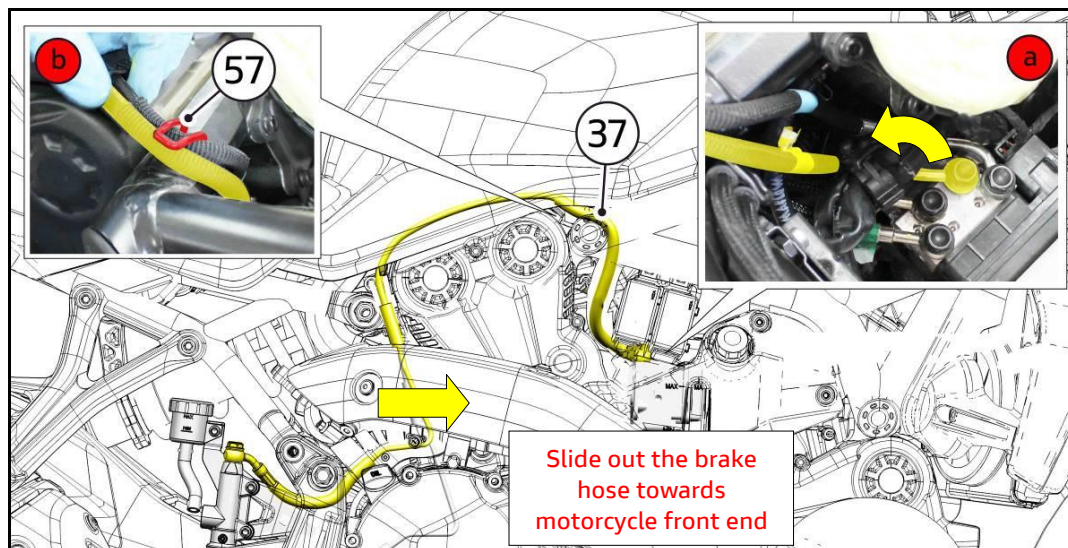


WARNING

Brake fluid can damage the paint or parts of the motorcycle. Wash the affected area with plenty of water in case of accidental contact. Damage to motorcycle finishes and components due to brake fluid contact during repairs is not warrantable and is the responsibility of the dealer to remedy



2. Pull out the **brake hose (37)** towards the front end following the sequence indicated below:
 - 2 A. Route the ABS control unit fitting below the wiring support
 - 2 B. Release brake hose (37) from cable guide (57)





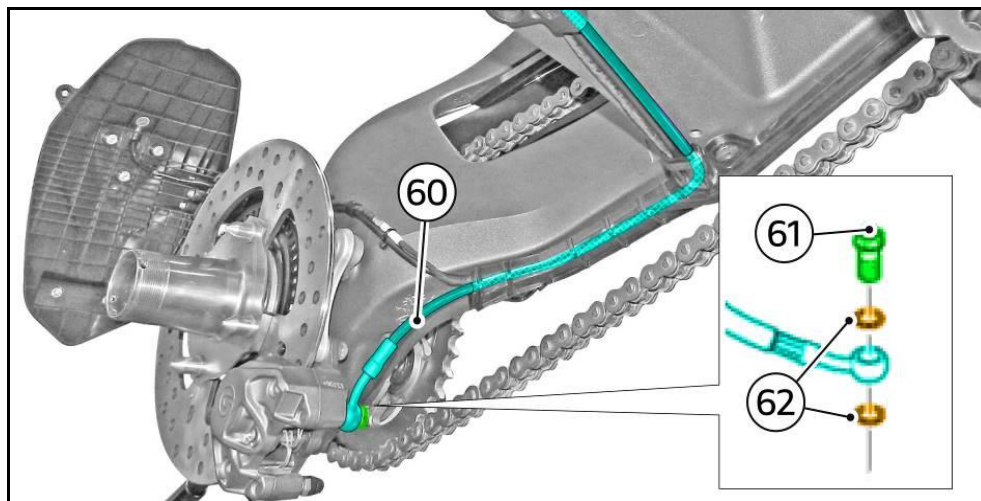
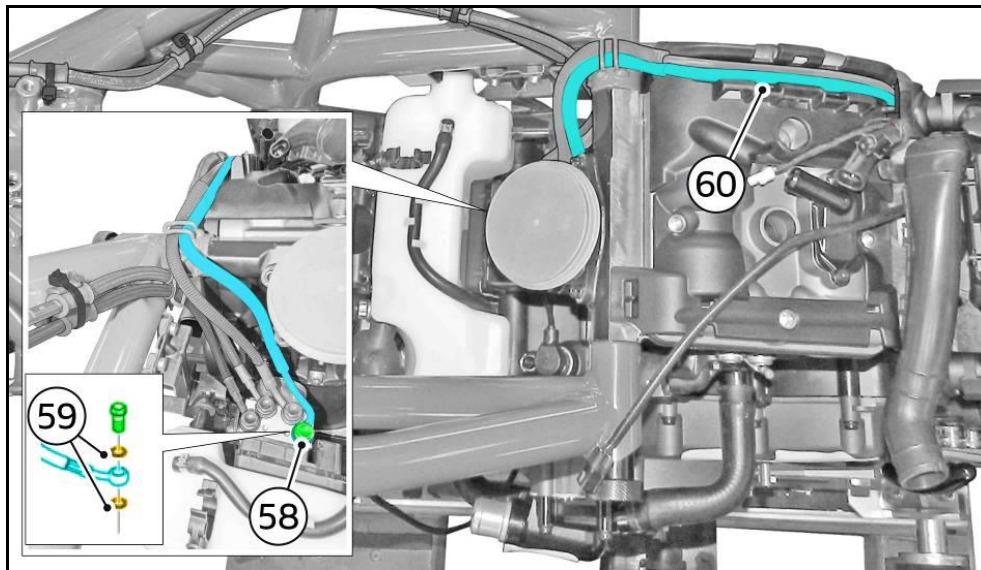
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3. Working on the ABS control unit, remove the **special screw (58)** with the **2 copper washers (59)** securing **brake hose (60)** to ABS control unit.
4. Working on the rear brake caliper, remove the **special screw (61)** with the **2 copper washers (62)** securing **brake hose (60)** to rear brake master cylinder





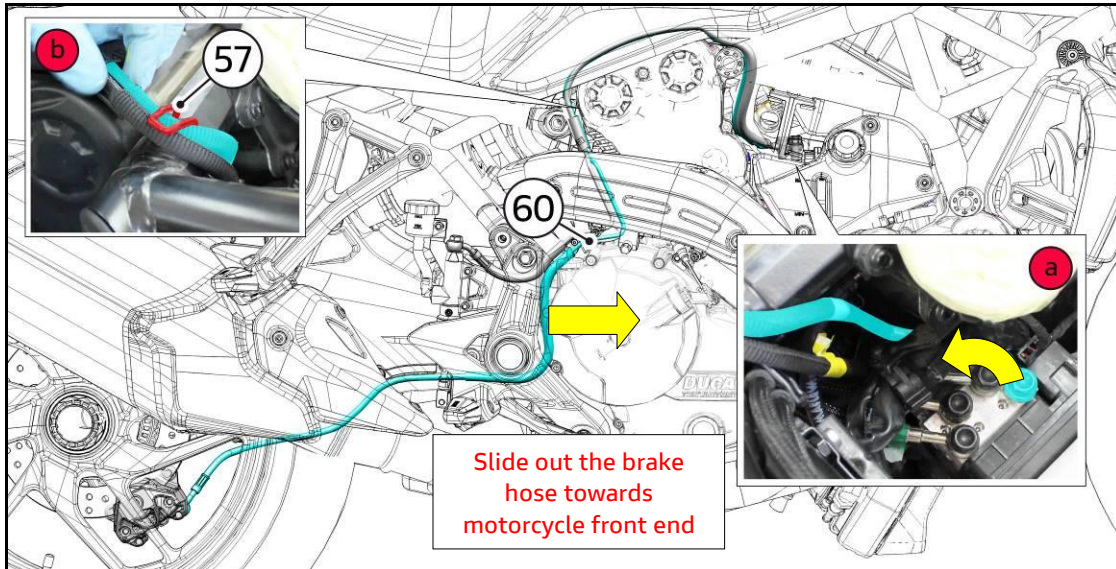
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5. Pull out the **brake hose (60)** towards the front end following the sequence indicated below:
 - 5 A. Route the ABS control unit fitting below the wiring support
 - 5 B. Release **brake hose (60)** from **cable guide (57)**





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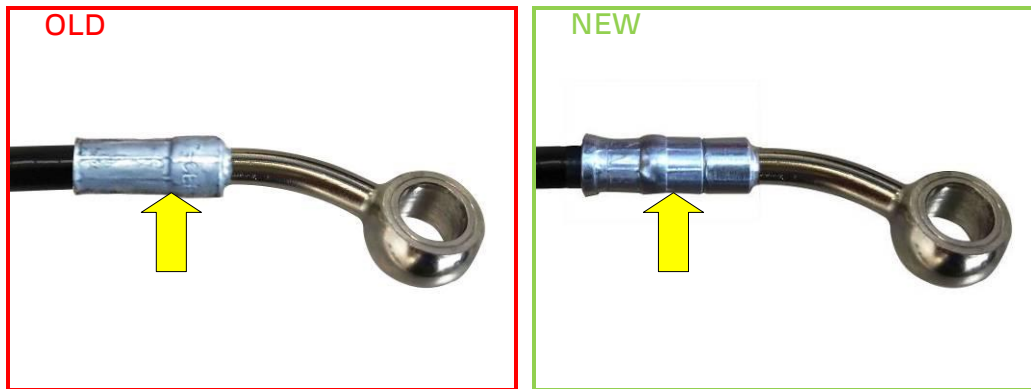
Part 3: Rear Brake Hose Installation - ABS unit to Rear Caliper

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

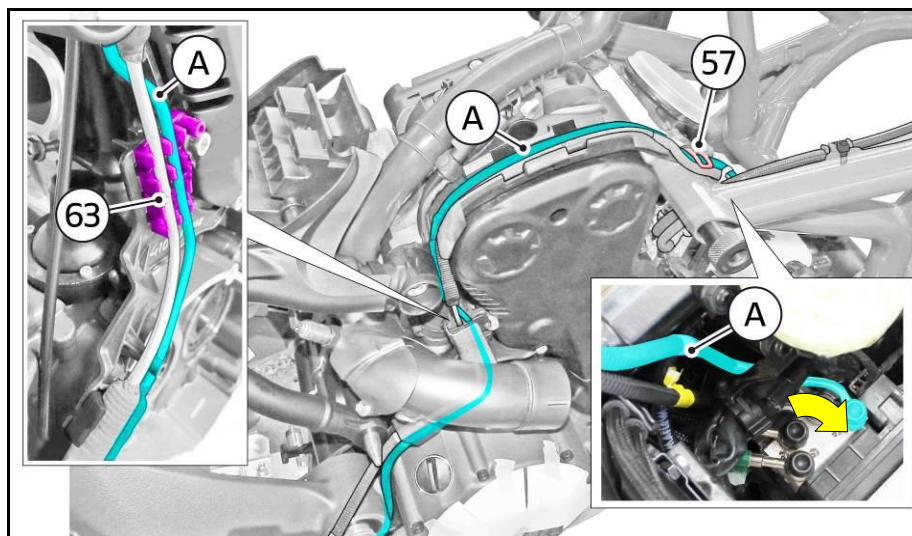


NOTE

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



2. Install the new **brake hose (A)** connecting the ABS control unit to the rear brake caliper, as shown below:
 - 2 A. Route the ABS control unit fitting below the wiring support
 - 2 B. Position **brake hose (A)** inside **cable guide (57)**
 - 2 C. Position **brake hose (A)** inside **cable guide (63)**, in the position shown in the figure
 - 2 D. Route **brake hose (A)** between swinging arm and clutch cover.



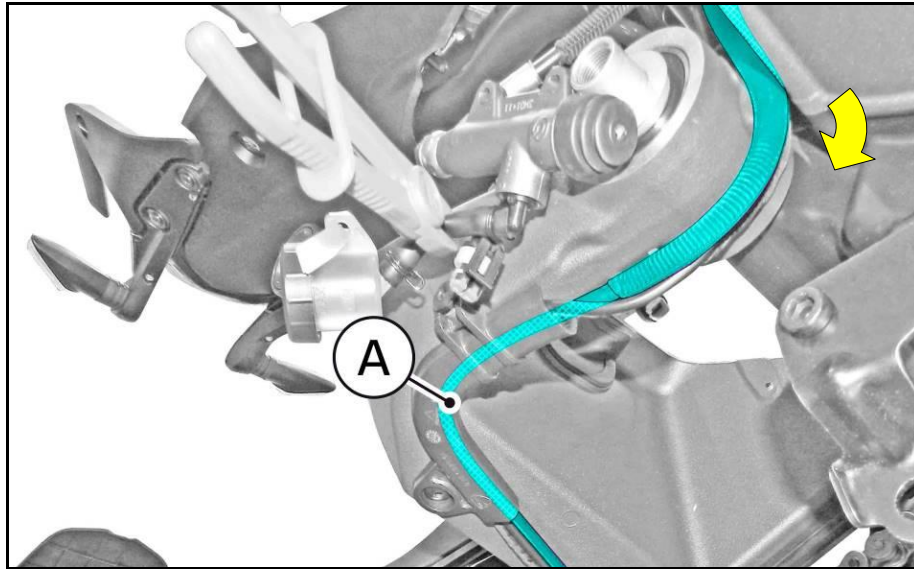


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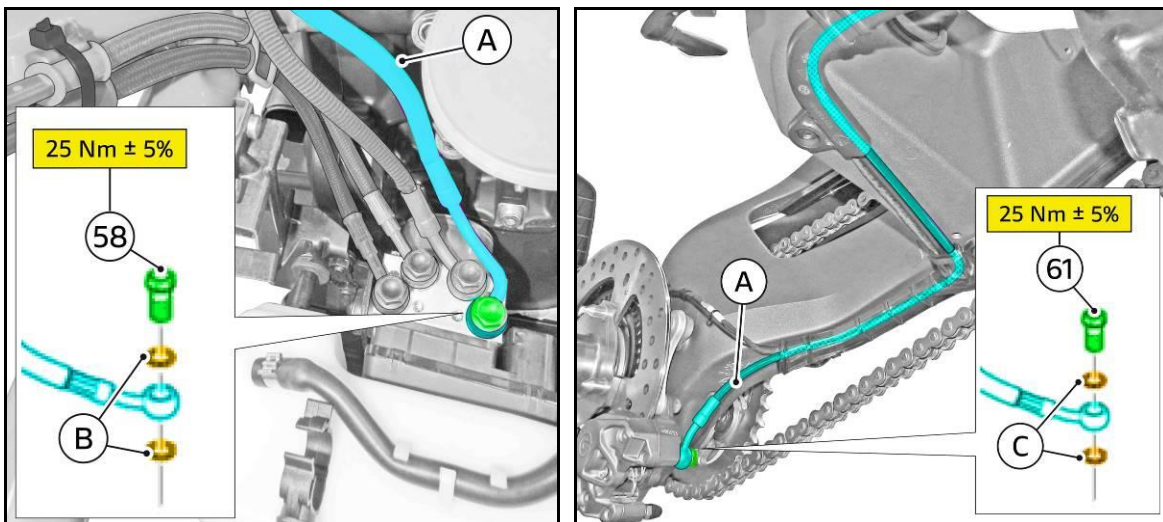
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3. Fasten the ABS control unit fitting to the control unit as shown in the figure, using **2 new copper washers (B)** and tighten the **special screw (58)** to **25 Nm ± 5%** with certification
4. Fasten the rear brake caliper fitting, aiming it as shown in the figure, using **2 new copper washers (C)** and tighten the **special screw (61)** to **25 Nm ± 5%** with certification





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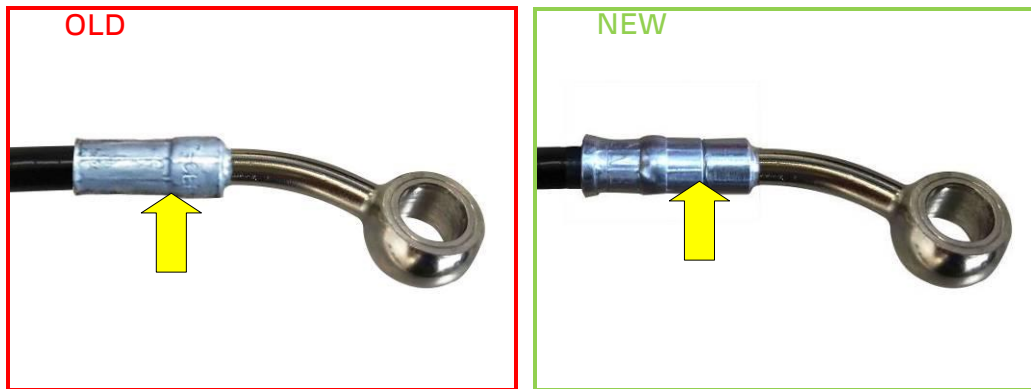
Part 4: Rear Brake Hose Installation - Master Cylinder to ABS unit

1. Take the new **brake hose (D)** connecting the ABS control unit to the rear brake master cylinder.

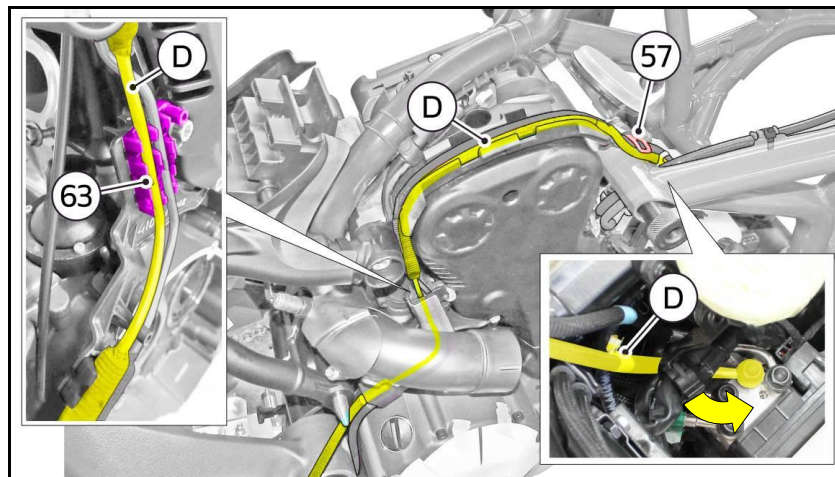


NOTE

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



2. Install the new **brake hose (D)** connecting the ABS control unit to the rear brake master cylinder, as shown below:
 - 2 A. Route the ABS control unit fitting below the wiring support
 - 2 B. Position **brake hose (D)** inside **cable guide (57)**, close to brake hose (A)
 - 2 C. Position **brake hose (D)** inside **cable guide (63)**, in the position shown in the figure.

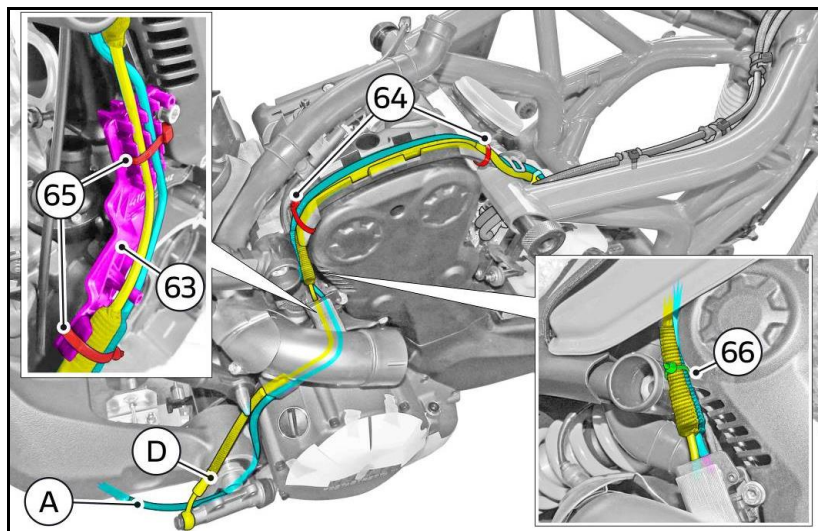




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3. Before fastening the fittings of **brake hose (D)**:
 - 3 A. Tie the **brake hoses (A)** and **(D)** to the vertical head cover using the **2 large self-locking ties (64)**, aiming these latter as shown in the figure
 - 3 B. Tie the **brake hoses (A)** and **(D)** to the **hose grommet (63)** using the **2 large self-locking ties (65)**, aiming these latter as shown in the figure
 - 3 C. Tie the **brake hoses (A)** and **(D)** close to the vertical head-rear subframe connector using the **small self-locking tie (66)**, aiming this latter as shown in the figure

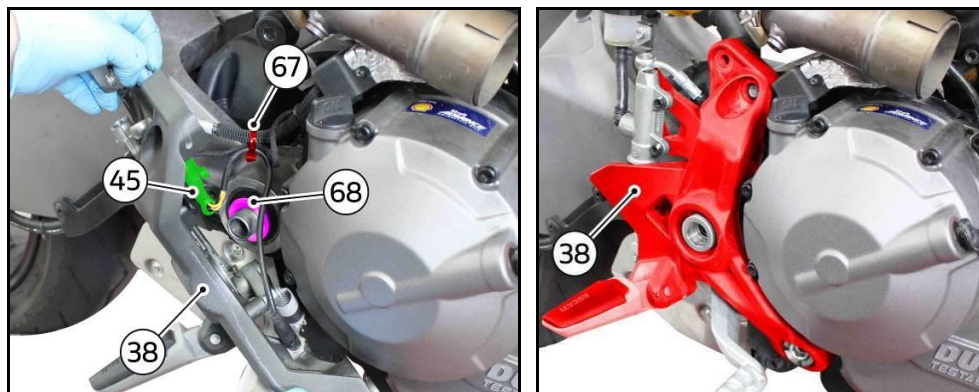


4. Take the **footpeg holder plate assembly (38)** and tie the brake hose (D) to the rear stop light sensor wiring using the small self-locking **tie (67)**, aiming this latter as shown
5. Connect the rear stop light **connector (45)**



NOTE

When fitting the RH front footpeg holder plate assembly, make sure that **bushing (68)** is present on swingarm shaft and take care not to damage the brake hose and wiring.





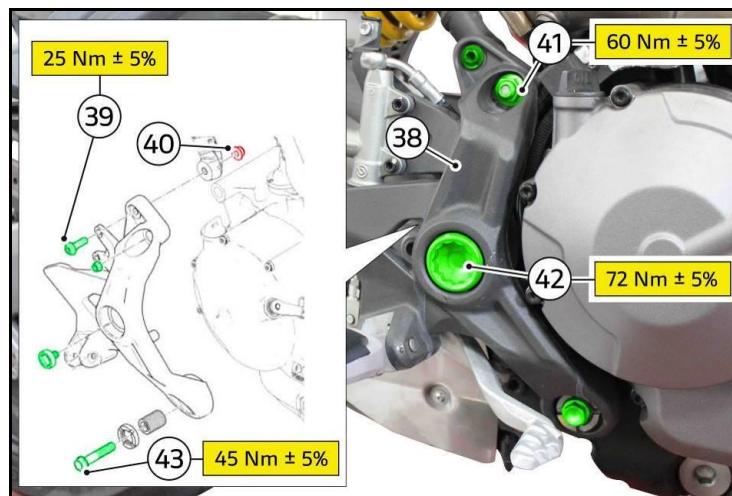
CR193 - Rear Brake Hoses Check and Replace if required

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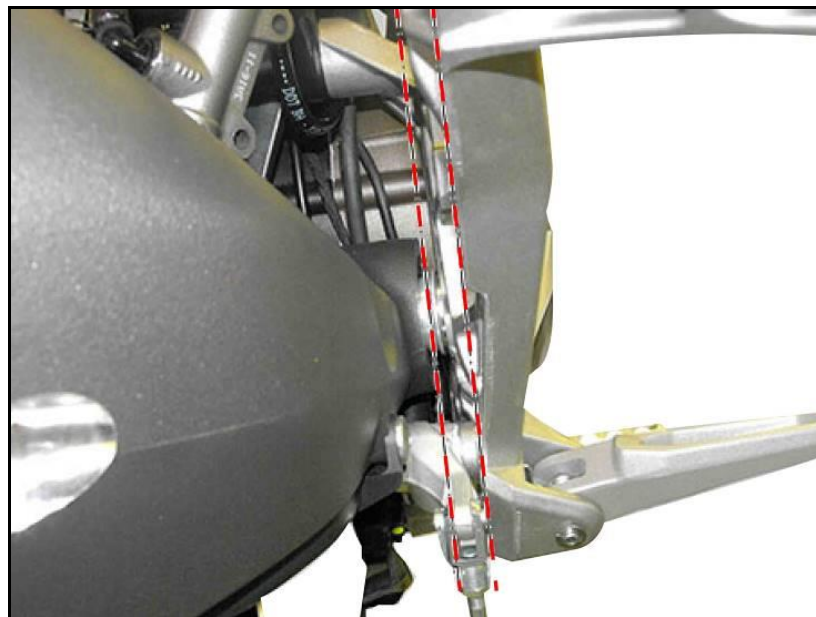
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6. Fasten the RH front footpeg holder **plate (38)** assembly following the sequence below:
 - 6 A. Tighten **special screw (42)** to **72 Nm ±5%** with grease GADUS S2 V220 AD 2 (Or equivalent) + certification
 - 6 B. Tighten **nut (41)** to **60 Nm ± 5%** with grease GADUS S2 V220 AD 2 (Or equivalent) + certification while holding it from the opposite side
 - 6 C. Tighten **screw M10x50 (43)** to **45 Nm ± 5%** with grease GADUS S2 V220 AD 2 (Or equivalent) + certification
 - 6 D. Tighten **special screw (39)** to **25 Nm ± 5%** while holding **nut M8 (40)** and certify



NOTE

Check the correct alignment between the footpeg holder plate and the swingarm.





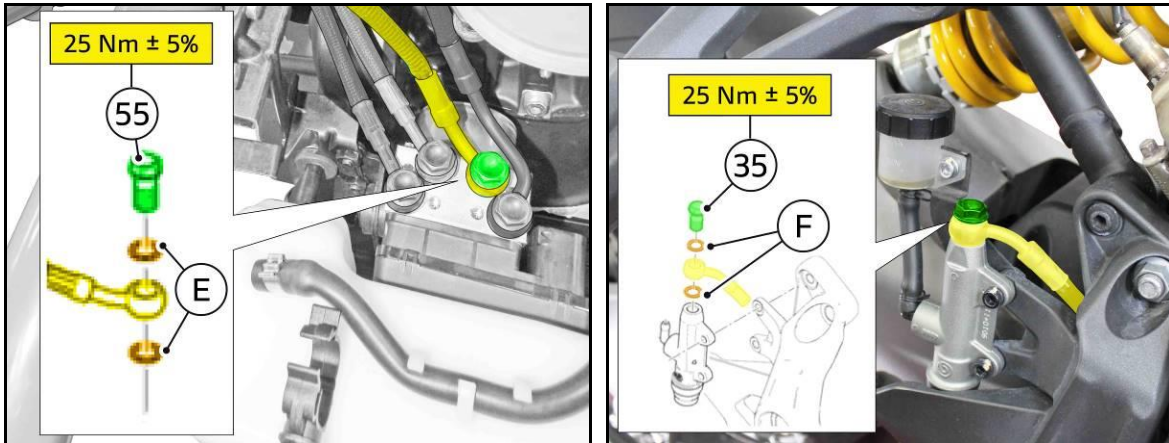
CR193 - Rear Brake Hoses Check and Replace if required

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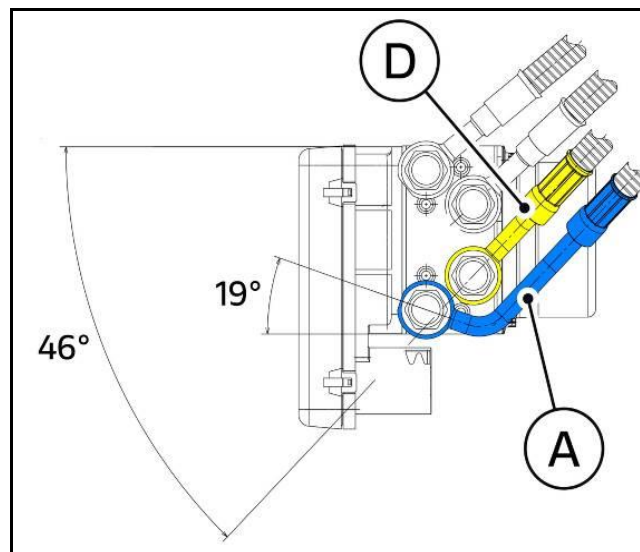
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7. Fasten the fitting to the ABS control unit as shown in the figure, using **2 new copper washers (E)** and tighten the **special screw (55)** to **$25 \text{ Nm} \pm 5\%$ with certification**
8. Fasten the rear brake master cylinder fitting as shown in the figure using **2 new copper washers (F)** and tighten the **special screw (35)** to **$25 \text{ Nm} \pm 5\%$ with certification**



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.





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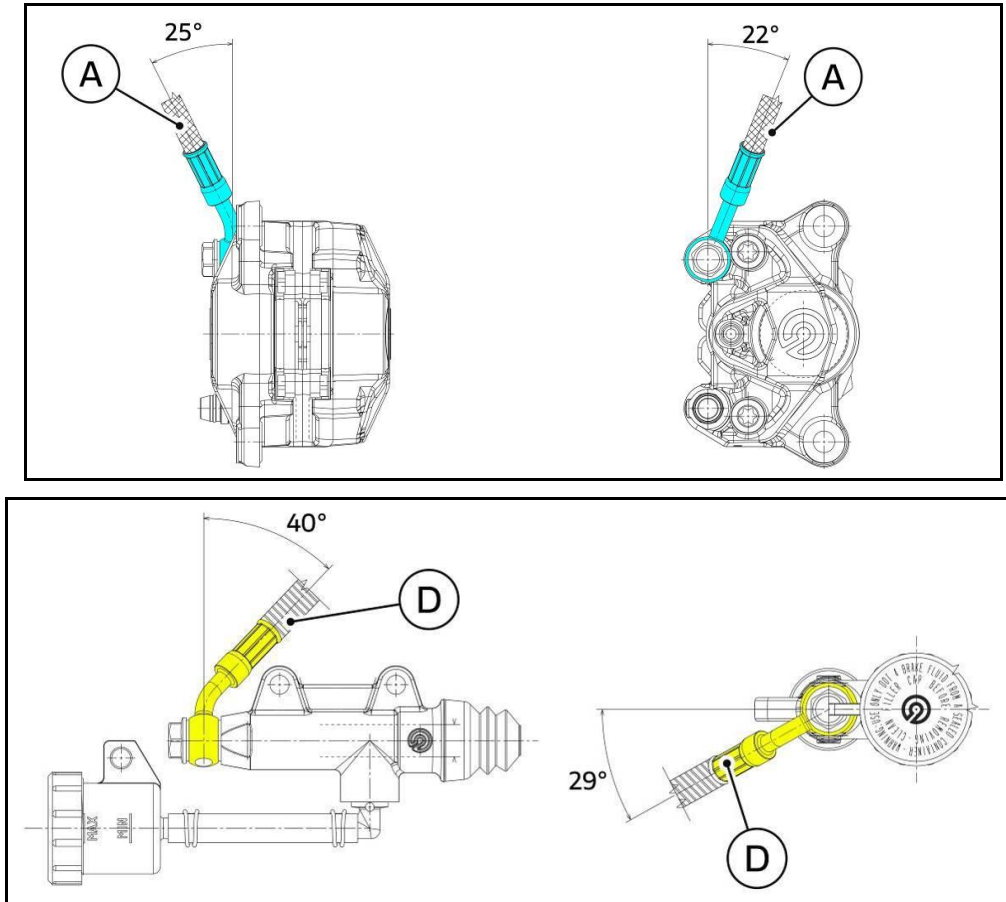
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WARNING

Make sure that **brake hose (A)** and **brake hose (D)** fittings are respectively aimed on the brake caliper and brake master cylinder as shown in the figure.





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Part 5: 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 in the bulletin SRV-TTB-17-002 valid for the Monster 1200 model.

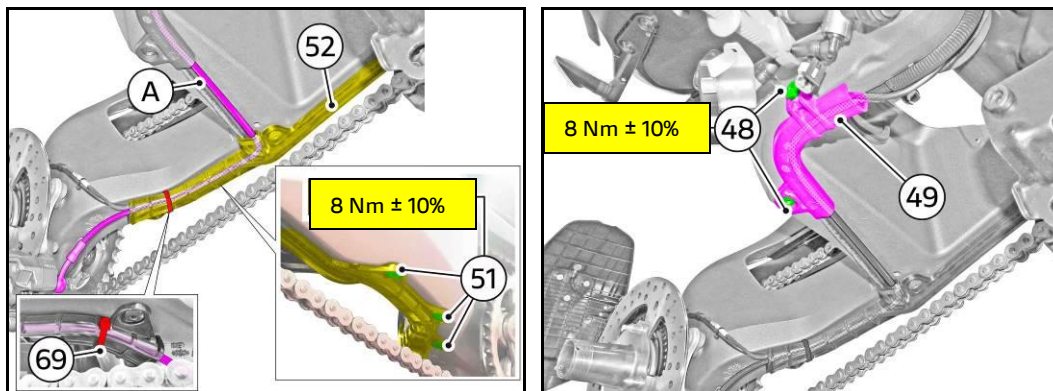


WARNING

Brake fluid can damage the paint or parts of the motorcycle. Wash the affected area with plenty of water in case of accidental contact. Damage to motorcycle finishes and components due to brake fluid contact during repairs is not warrantable and is the responsibility of the dealer to remedy



2. Position **brake hose (A)**, speed sensor cable and number plate light cable along the swinging arm and fasten them with **hose guide (49)** and **chain sliding shoe (52)**
3. Tighten **2 screws M5x12 (48)** and **3 screws M5x12 (51)** to a to **8 Nm ± 10%**
4. Tie to the **chain sliding shoe (52)**, the **brake hose (A)**, the number plate light cable and the rear speed sensor cable with big self-locking **tie (69)**



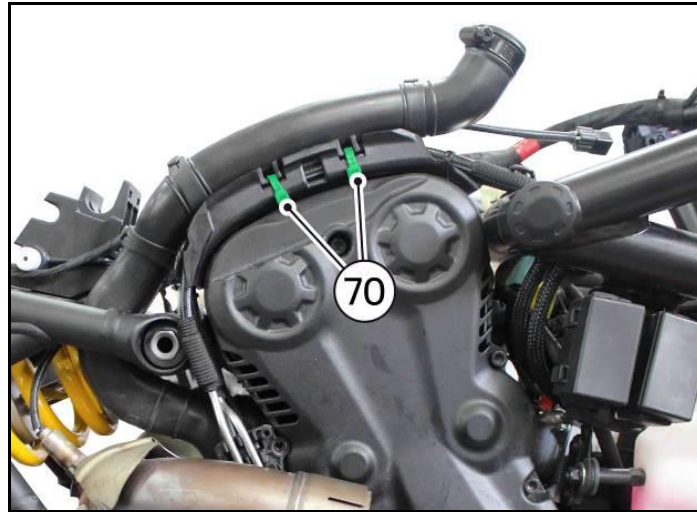


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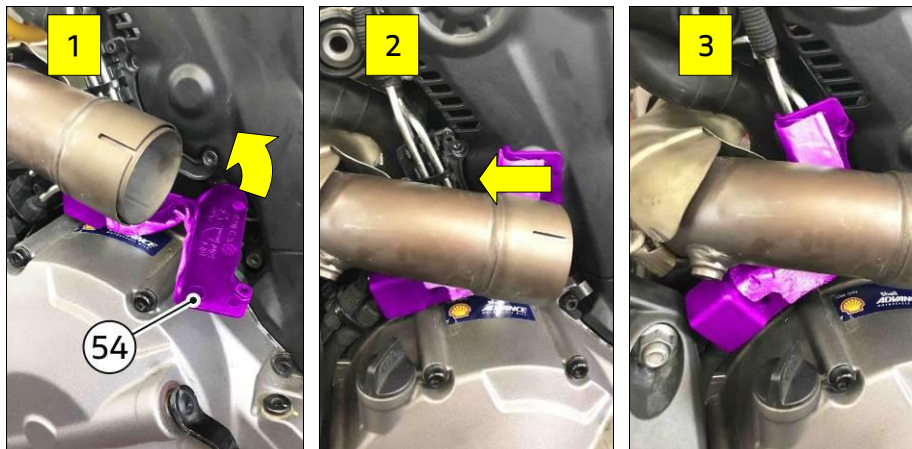
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Part 6: Vehicle refitting

1. Position the Crankcase ventilation hose on vertical cylinder head and secure it to head cover using the **2 large self-locking ties (70)**, aiming these latter as shown in the figure



2. Install the **cover (54)** following the procedure below:
 - 2 A. fit the cover and position it as shown in figure
 - 2 B. turn cover upwards to insert it between exhaust manifold and vertical head belt cover guard
 - 2 C. position cover inside its seat.





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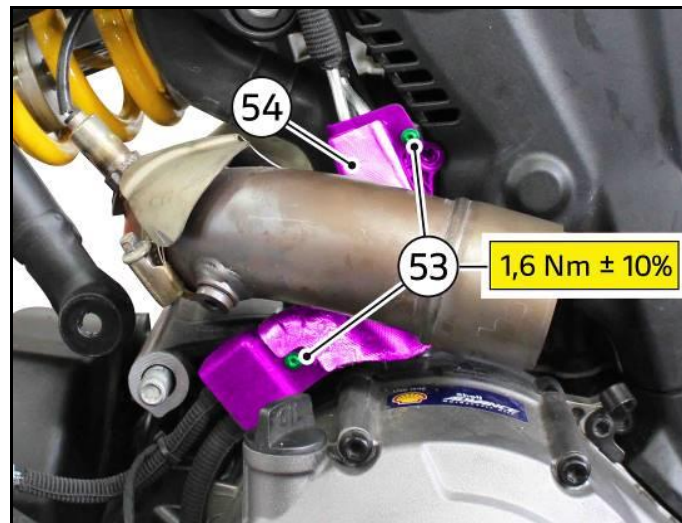
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3. Tighten the 2 self-tapping screws (53) securing cover (54) to 1.6 Nm ± 10%.

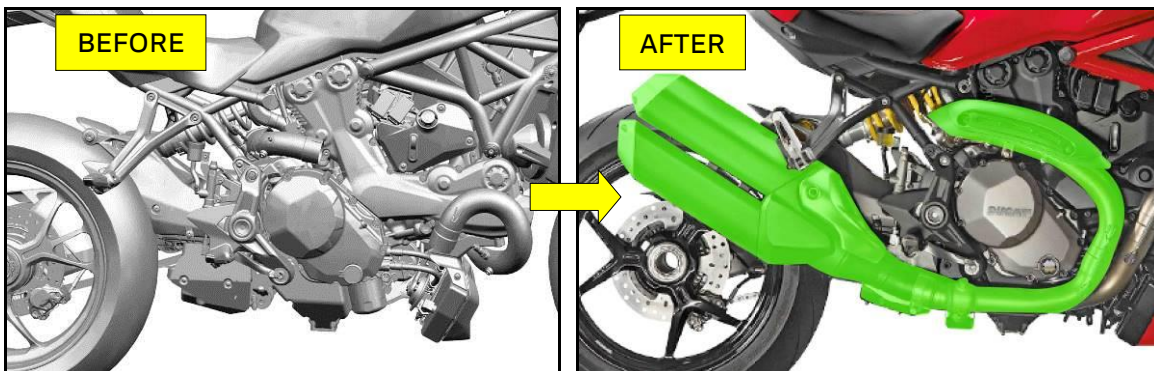


NOTE

Before carrying on with the tightening, start the 2 self-tapping screws (54) taking care to start them in the original thread already present.



4. Fit the vertical head exhaust mid pipe (See Sec.8: "Fuel/exhaust system – Exhaust system" of the Workshop Manual).
5. Fit the silencer (See Sec.8: "Fuel/exhaust system – Exhaust system" of the Workshop Manual)

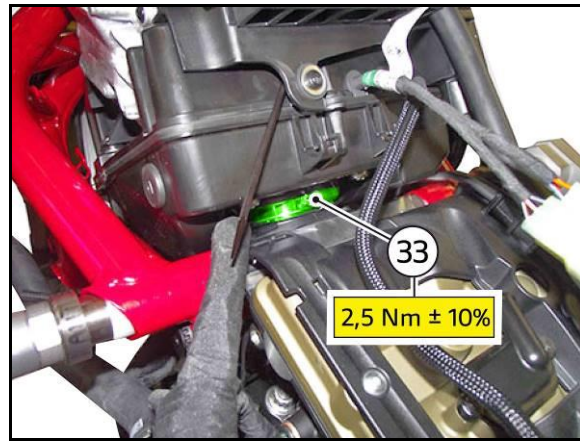
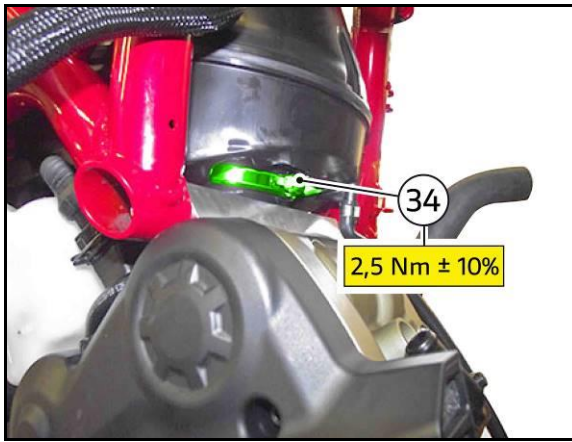




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6. Remove the adhesive tape from the intake manifolds
7. Install the Airbox on the vehicle making sure that the two intake manifolds are perfectly fitted inside it
8. Working on vehicle RH side, fasten the Airbox using **clamp (34)** positioned on the horizontal cylinder head and **clamp (33)** positioned on the vertical cylinder head and tighten them to **2.5 Nm \pm 10%**.

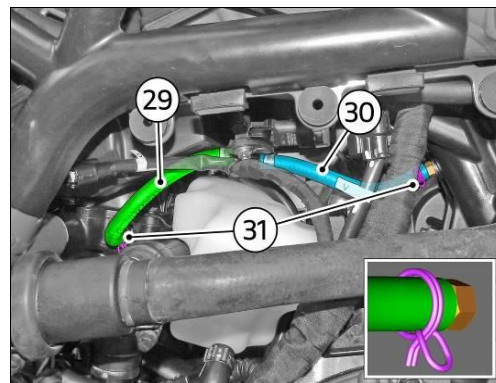
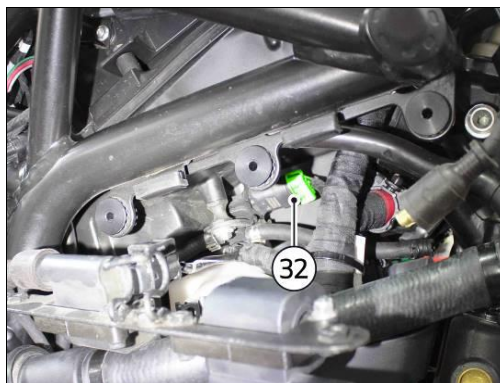


9. Working on vehicle LH side:
 - 9 A. connect map sensor **connector (32)**
 - 9 B. install horizontal head pressure sensor **hose (29)** and vertical head pressure sensor **hose (30)** by applying the **2 clamps (31)**.



NOTE

Position clamps with cut parts side facing downwards, as shown in the figure.

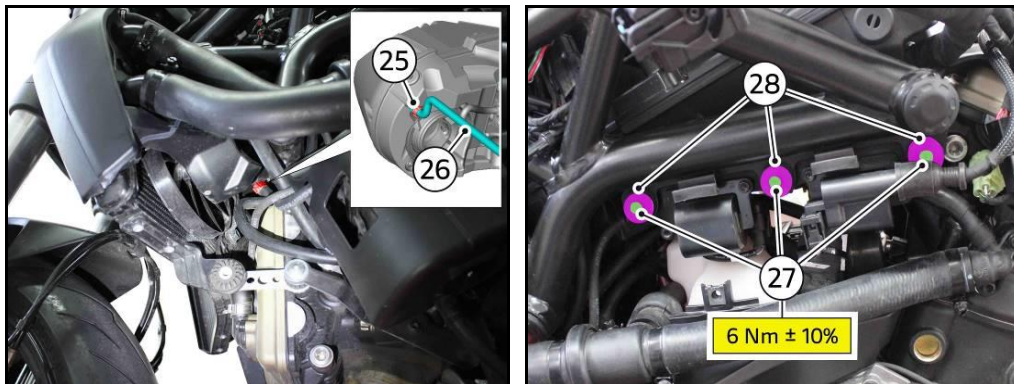




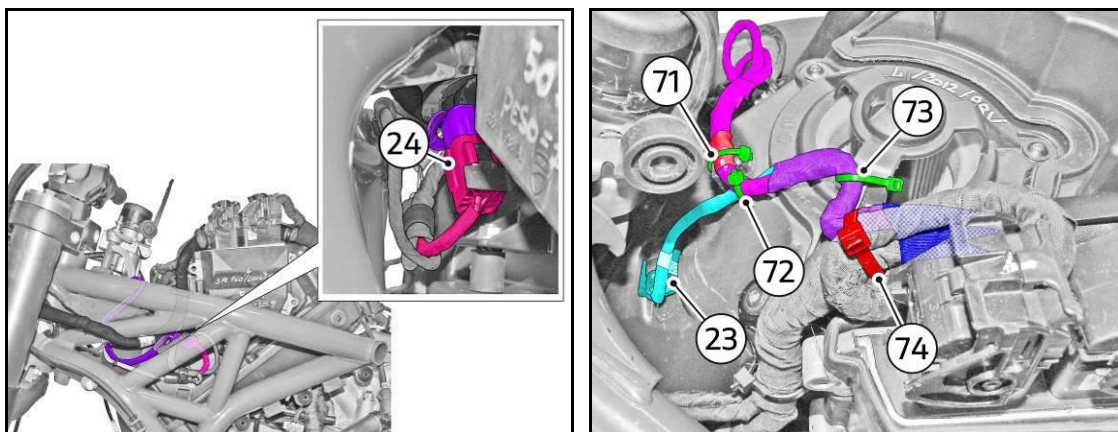
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- 9 A. install Airbox drain hose (26) and secure it with click clamp (25)
- 9 B. install the coil support bracket by tightening the 3 screws M5x20 (27) with the relevant spacers (28) to $6 \text{ Nm} \pm 10\%$



- 9 C. insert ignition switch connector (24) in the relevant tab present on the Airbox
- 9 D. connect the air temperature sensor connector (23)
- 9 E. using the small self-locking tie (71) join the main wiring front central branch to the airbox clip (close to the red taping and aiming it as shown in the figure).
- 9 F. using the small self-locking tie (72) join the main wiring front branch to the air temperature sensor wiring branch (aim it as shown in the figure).
- 9 G. using the small self-locking tie (73) join the main wiring front branch to the air filter cover (aim it as shown in the figure).
- 9 H. using the large self-locking tie (74) join the ground jointing braided wiring branch, the ECU wiring branch and the air main wiring front central branch to the main wiring front branch (aim it as shown in the figure)





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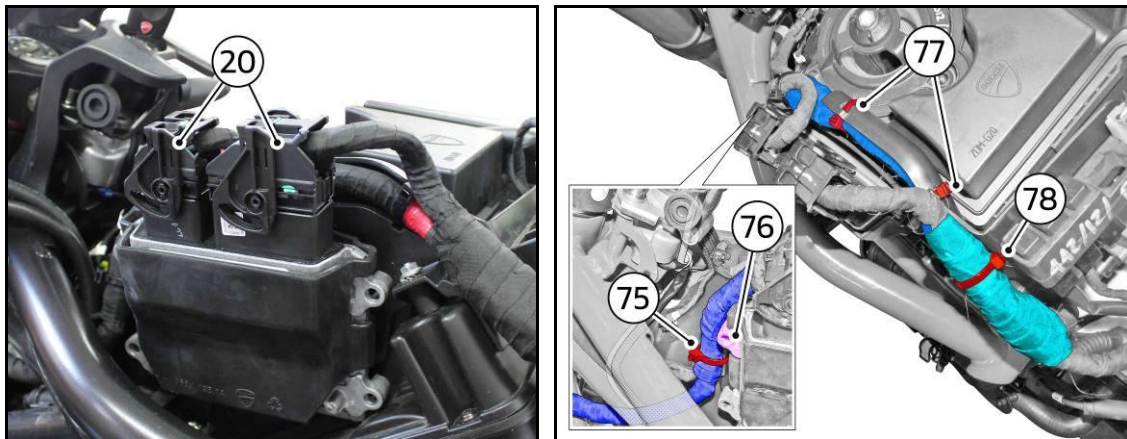
- 9 I. connect **2 connectors (20)** of engine ECU
- 9 J. using the small self-locking **tie (75)** join the main wiring primary front branch to the ECU support (aim it as shown in the figure)



NOTE

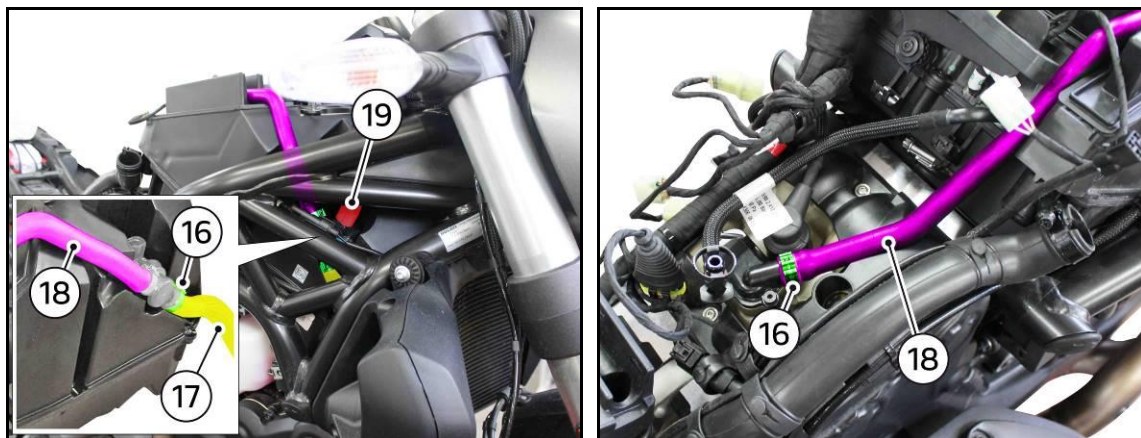
The main wiring primary front branch must not interfere with **poppet (76)** of ECU.

- 9 A. using the **2 big self-locking ties (77)** join the front branch and the ground jointing braided wiring branch to the control unit-relay support (aim them as shown in the figure)
- 9 B. using the large self-locking **tie (78)** join the main branch to the control unit-relay support (aim it as shown in the figure)



10. Working on vehicle RH side:

- 10 A. connect secondary air (AIS) **connector (19)**
- 10 B. install horizontal head secondary air **hose (17)** and vertical head secondary air **hose (18)** by fastening them with the **2 click clamps (16)**





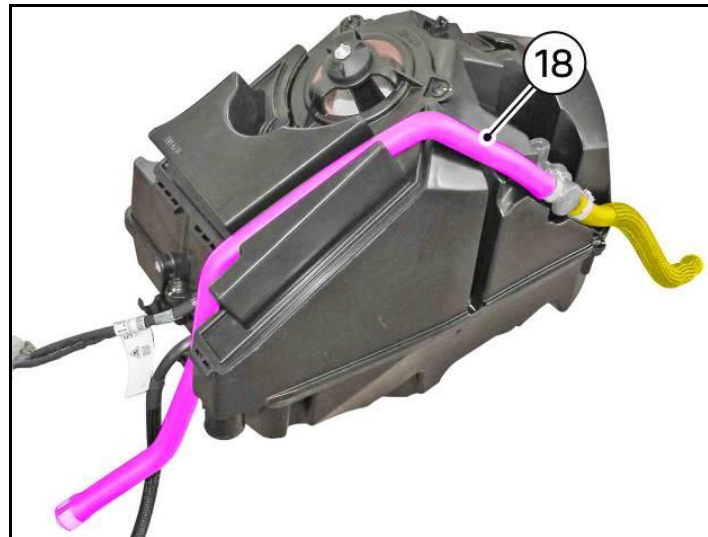
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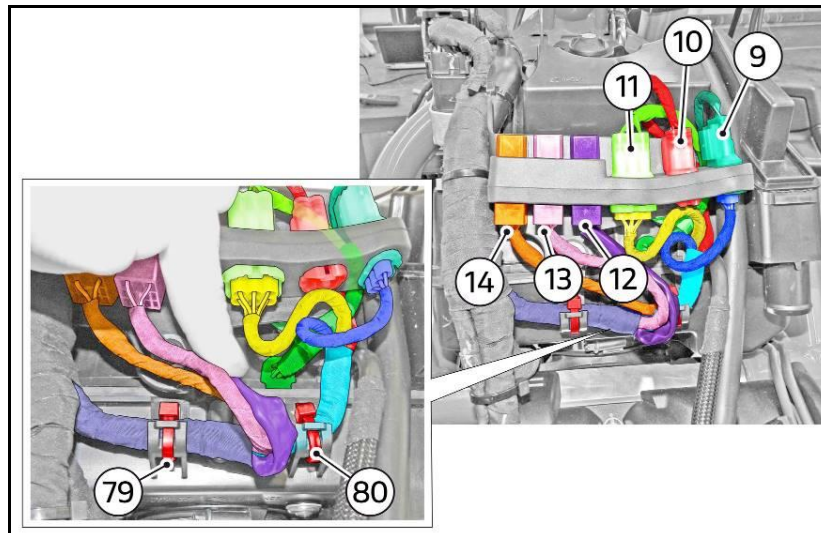


NOTE

Make sure that secondary air **hose (18)** is correctly positioned on the Airbox.



11. Connect injector wiring **connector (9)**, vertical lambda sensor **connector (10)**, potentiometer wiring **connector (11)** and insert starter **relay (12)**, injection **relay (13)** and fuel pump **relay (14)** in the relevant support as shown in the figure
12. Using the large self-locking **tie (79)** join the main wiring primary central branch to the airbox lower cover (aim it as shown in the figure)
13. Using the large self-locking **tie (80)** join the main wiring secondary central branch to the airbox lower cover (aim it as shown in the figure)

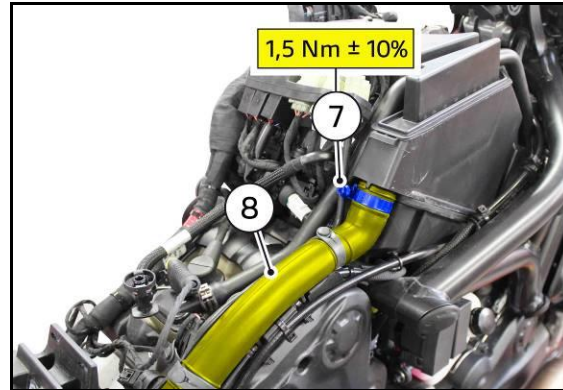




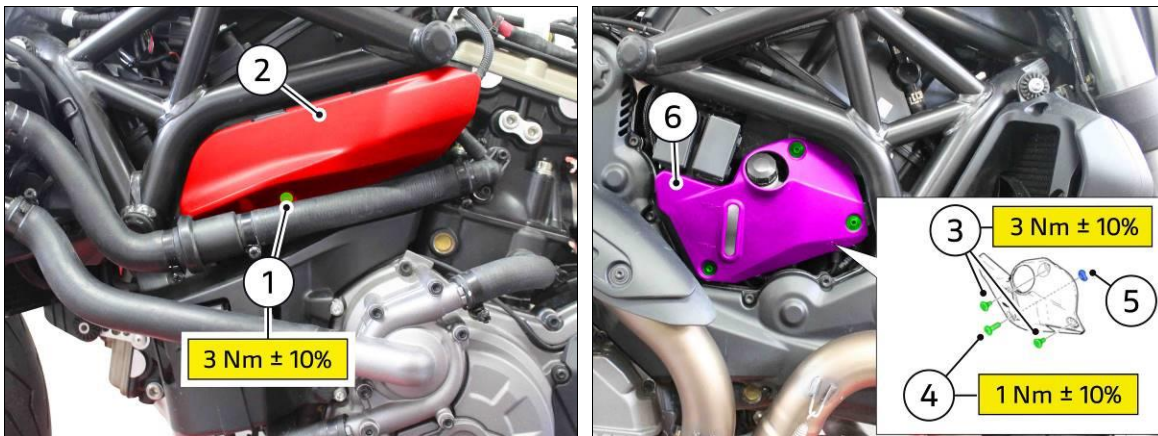
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14. Fit the Crankcase ventilation hose (8) on the Airbox and tighten clamp (7) to 1.5 Nm ± 10%.



15. Working on the LH side, install cover (2) tightening screw M5x10 (1) to 3 Nm ± 10%
16. Working on the RH side, install the coolant reservoir cover (6) and tighten the 2 screws M5x9 (3) to 3 Nm ± 10% and screw M6x22 (4) with relevant spacer (5) to 1 Nm ± 10%



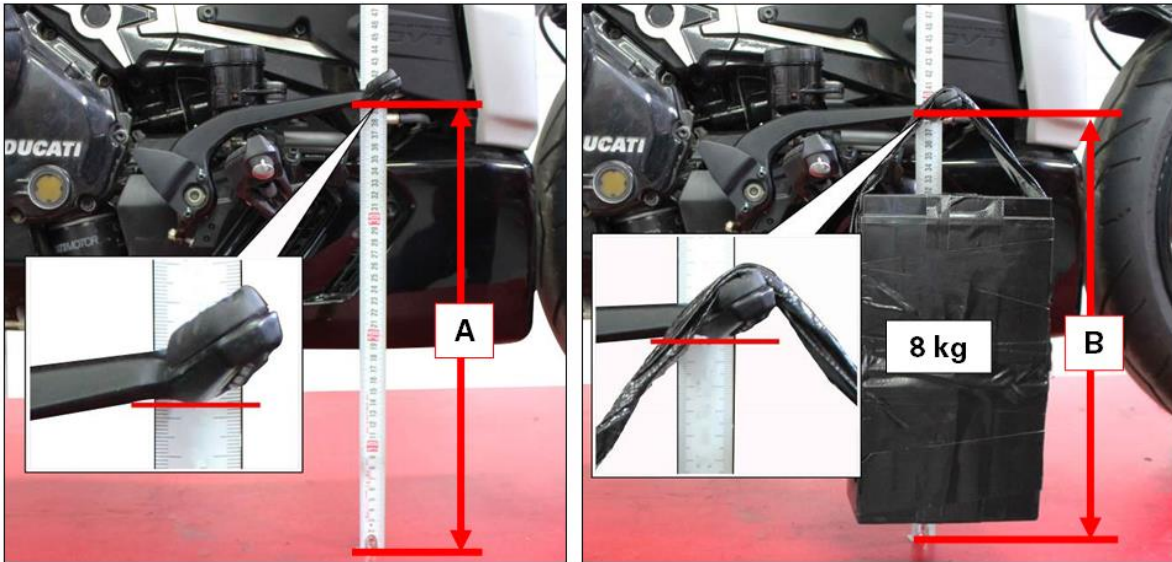
17. Fit the fuel tank (See Sec.8: "Fuel/exhaust system – Fuel tank" of the Workshop Manual)
18. Refit the rear wheel (See Sec. 7: "Chassis – Rear wheel" of the Workshop Manual)
19. Start the engine and keep it at idle until reaching the fan activation condition
20. Connect the DDS 2.0 diagnosis instrument and run a Global Scan
21. Mount the seat



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



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

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

25. Try the bike 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.**
26. Measure again the rear brake lever stroke as referred to under section (28) and (29) of SRV-TTB-17-002. Or (22) and (23) of this bulletin.



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.

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

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



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

- If a stroke increase of the rear brake lever is detected, repeat the entire bleed procedure.
- Once the new bleeding procedure is completed, check that the stroke of the rear brake lever has not increased.

29. Remove the bike from the rear paddock stand

30. Perform a soft cleaning of the bike before delivering it to the Customer.

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