

XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Date: May 27, 2021

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

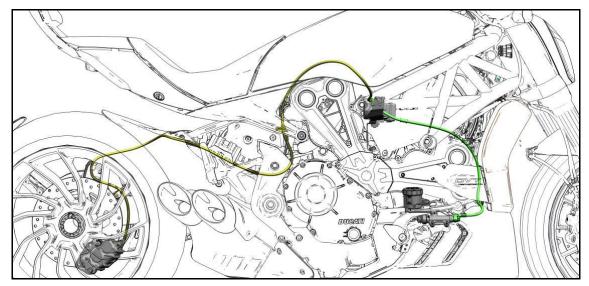
Network

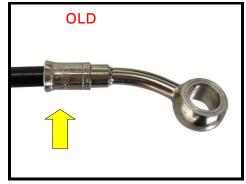
From: Richard Kenton, Technical Director

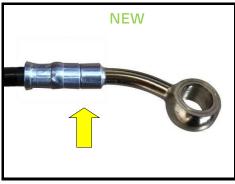
Eric Bradley, Technical Training and Publications Manager

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 - green - and ABS control unit to rear brake caliper - yellow) will be installed to replace the rear brake hoses for the above listed model.









NOTE

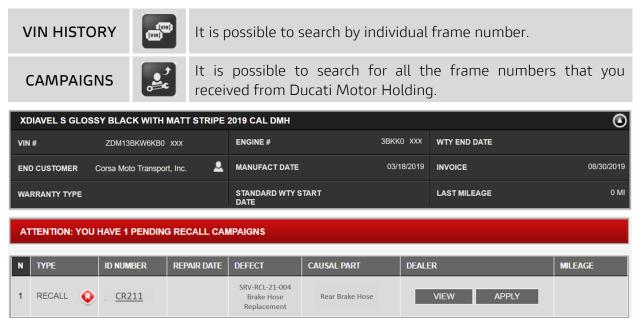
All XDiavel model versions currently produced and being shipped by DMH to all destinations have already been equipped with these new brake hoses



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Application

You can find the precise list of VIN numbers involved in CR211 on the DCS, in sections:



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.

Parts Distribution

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

- 61911361A: ABS control unit / rear brake master cylinder hose
- 61911341A: ABS control unit / rear brake caliper hose
- 85250241A: Copper washers (8pcs)

The required self-locking ties (small (7 pcs) and large (3 pcs)) are easy to find consumables and should be sourced locally.

Warranty Reimbursement Rules

Reimbursement for work associated with this Safety Recall 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 CR211.



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

The dealer shall be reimbursed for the parts listed for the operation; copper washers (8) part no. 85250241A, ABS control unit / rear brake master cylinder hose Part no.61911361A, ABS control unit / rear brake caliper hose Part no.61911341A), the consumable ties and DOT 4 brake fluid; and labor for **2h:54min (29 labor units)** that includes the time necessary for:

- Vehicle reception
- 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

Table of Contents

	Page
Introduction	1
Application	2
Customer Impact	2
Parts Distribution	2
Warranty Reimbursement Rules	2
Spare Parts	4
Service Solution	4
Part 1: Vehicle Preparation	4
Part 2: Rear Brake Hose Removal	14
Part 3: Rear Brake Hose Installation – Master Cyl. to ABS control	16
Part 4: Rear Brake Hose Installation – ABS Control to Rear Caliper	18
Part 5: Rear Brake System Filling and Bleeding	23
Part 6: Vehicle Refitting	24
Additional Requirements and Notes	33
Customer Letter Example	34



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Spare Parts

Part No.	Description	Picture
61911361A	ABS control unit / rear brake master cylinder hose	
61911341A	ABS control unit / rear brake caliper hose	
85250241A	Copper washers (8pcs)	O (x8)

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

Part 1: Vehicle Preparation

- 1. Position the vehicle on the rear paddock stand
- 2. Drain all brake fluid contained inside the rear brake system





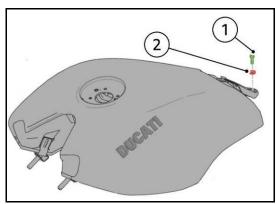
XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

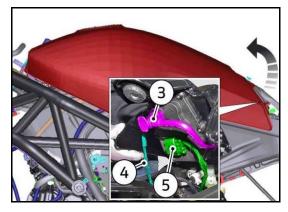


WARNING

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

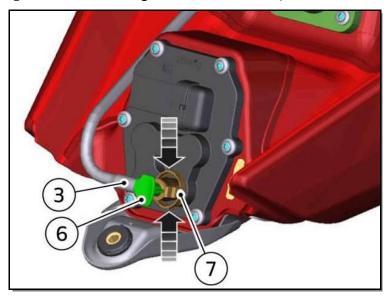
- 3. Remove the seat
- 4. Remove the M6x20 screw (1) with washer (2) retaining fuel tank
- 5. Slightly lift the fuel tank, disconnect the fuel supply hose (3), the ground cable (4) and the fuel pump connector (5)







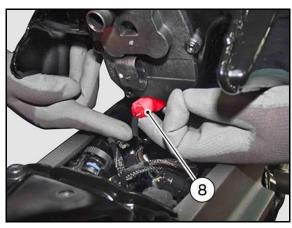
To disconnect the fuel supply hose (3) press on the flange in point (6) and at the same time tighten the **outer ring (7)** in the indicated points





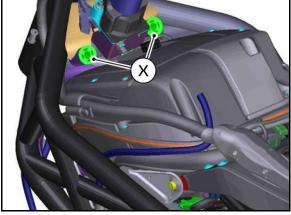
XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

6. Disconnect the fuel level sensor connector (8)

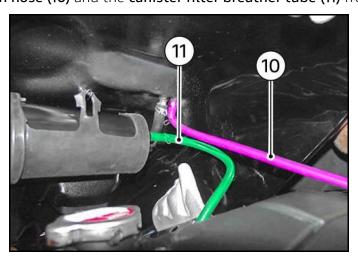


7. Lift the fuel tank by pulling out the 2 pins (9) from the relevant supports (X)





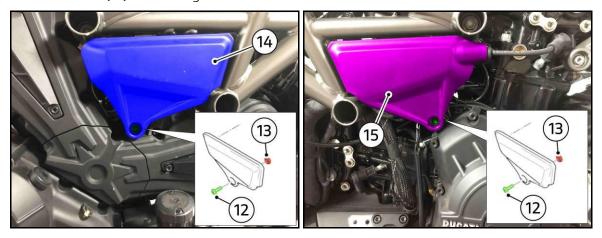
8. Pull out the drain hose (10) and the canister filter breather tube (11) from the fuel tank



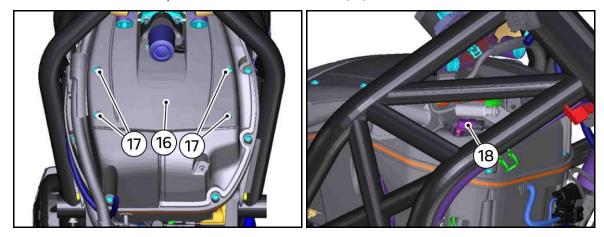


XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

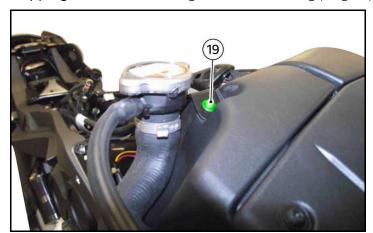
9. Remove the **2 M6x22 screws (12)** with the relevant **spacers (13)** fastening **RH cover (14)** and **LH cover (15)** of the engine



- 10. Remove the filter cover (16) by unscrewing the 4 self-tapping screws (17)
- 11. Disconnect the air temperature sensor connector (18)



12. Remove the **self-tapping screw (19)** securing the coolant filling plug support



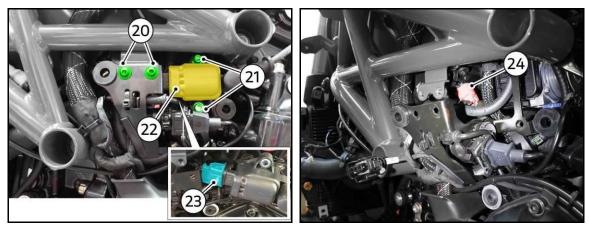
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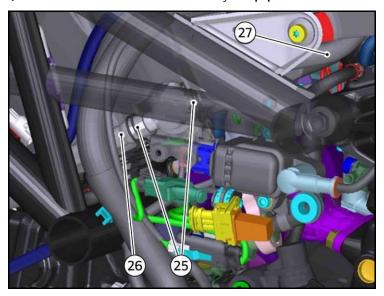


XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- 13. Working on vehicle LH side:
 - 13.1 Remove the 2 M6x10 screws (20) securing the connector support
 - **13.2** Remove the **2 M6x25 screws (21)** securing **ignition coil (22)** and disconnect the relevant **connector (23)**
 - 13.3 Disconnect secondary air (AIS) connector (24)



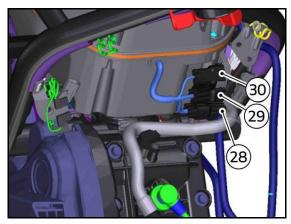
13.4 Remove the 2 spring retainers (25) and pull out the horizontal head secondary air pipe (26) and the vertical head secondary air pipe

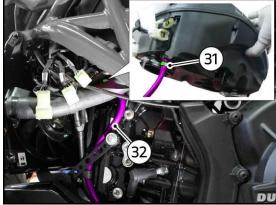




XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

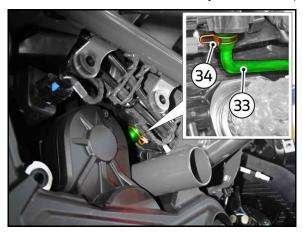
- 13.5 Disconnect vertical cylinder ETV (28), injection (29) and horizontal cylinder ETV (30) connectors
- 13.6 Remove tie (31) and pull out Airbox drain hose (32)

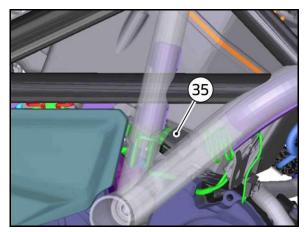




14. Working on vehicle RH side:

- 14.1 Pull out horizontal cylinder head pressure sensor pipe (33) acting on clamp (34)
- 14.2 Disconnect horizontal cylinder head pressure sensor connector (35)

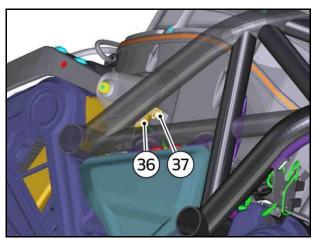




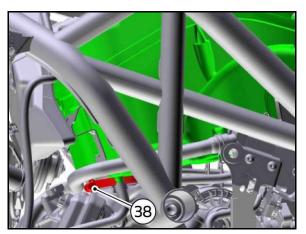


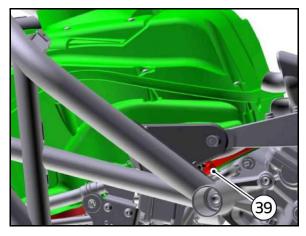
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14.3 Pull out blow-by hose (36) from the Airbox by loosening tie (37)



- 15. Working on vehicle LH side, loosen **tie (38)** positioned on the horizontal cylinder head and **tie (39)** positioned on the vertical cylinder head
 - 15.1 Remove the Airbox from the vehicle







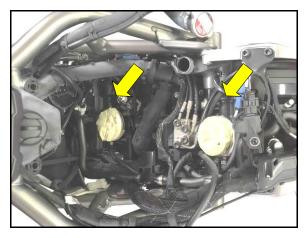
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15.2 Protect the engine with a cloth near the ABS control unit and cover the intake manifolds as shown in the figure to avoid the possible penetration of brake fluid or impurities inside the manifolds.

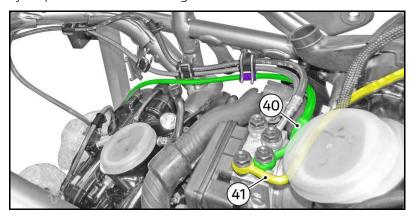


WARNING

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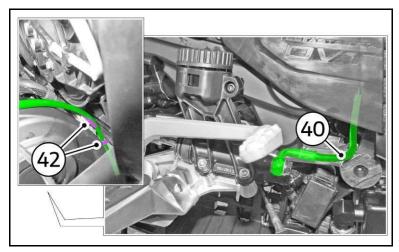
- 16. Remove the rear wheel (See Sec. 7: "Chassis Rear wheel" of the Workshop Manual)
- 17. Remove the rear mudguard (See Sec.5: "Fairing installation Rear and front mudguard" of the Workshop Manual)
- 18. Before carrying out the removal of: **hose (40)** connecting the ABS control unit to the rear brake master cylinder, **hose (41)** connecting the ABS control unit to the rear brake caliper it is necessary to perform the following:



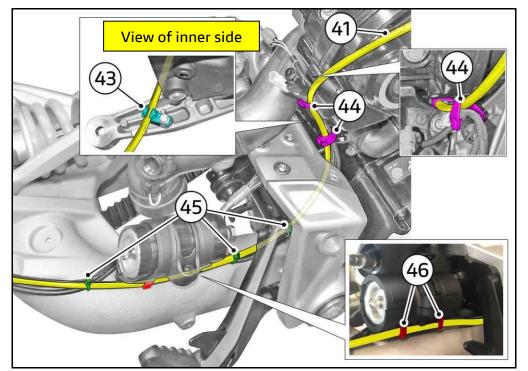


XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

19. Pull out the brake hose (40) from the relevant tabs (42) present on the coolant radiator



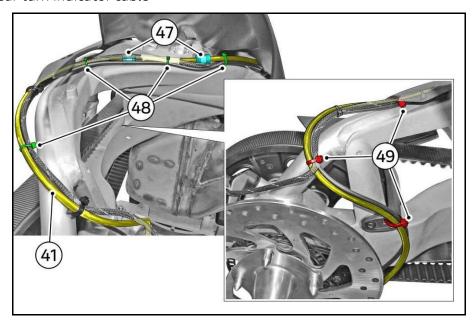
- 20. Pull out the brake hose (41) from cable guide (43)
- 21. Remove **3 L.39mm button ties (44)** joining the **brake hose (41)** to the speed sensor cable and rear turn indicator cable\
- 22. Remove **3 small self-locking ties (45)** joining the **brake hose (41)** to the speed sensor cable and rear turn indicator cable
- 23. Pull out the **brake hose (41)** from the **2 teeth (46)** present on the rear shock absorber reservoir support





XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- 24. Remove the 2 hose grommets (47) on swinging arm
- 25. Remove **4 small self-locking ties (48)** joining the **brake hose (41)**, the speed sensor cable and rear turn indicator cable
- 26. Remove **3 big self-locking ties (49)** joining the **brake hose (41)**, the speed sensor cable and rear turn indicator cable



27. Remove the 3 M6x18 screws (50) securing the air conveyor to the horizontal belt cover





NOTE

It is recommended to remove the air conveyor on horizontal belt cover to make the removal and installation operation of the brake hose connecting the ABS control unit to the rear brake master cylinder easier.



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Part 2: Rear Brake Hose Removal

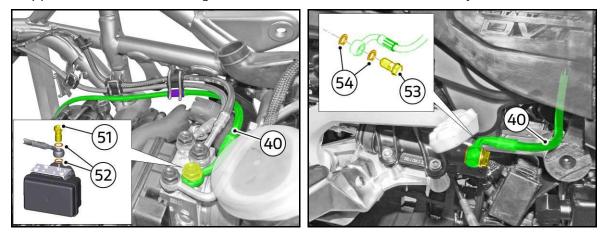
1. Working on the ABS control unit, remove the **special screw (51)** with the **2** copper **washers** (52) securing **brake hose (40)** to ABS control unit.



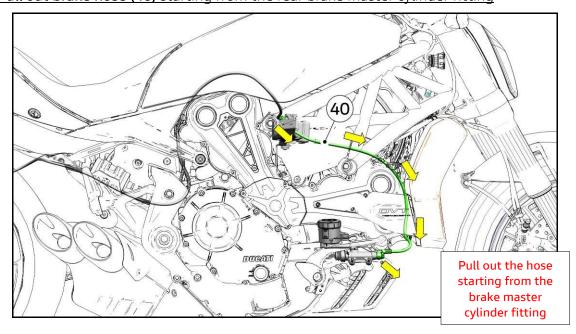
WARNING

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2. Working on the rear brake master cylinder, remove the **special screw (53)** with the **2 copper washers (54)** securing **brake hose (40)** to rear brake master cylinder



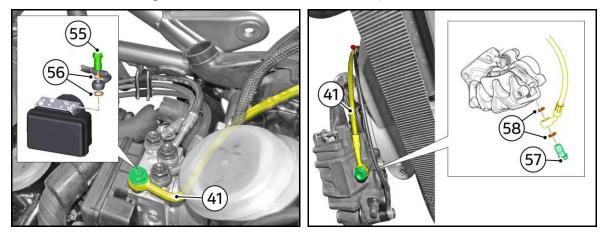
3. Pull out brake hose (40) starting from the rear brake master cylinder fitting



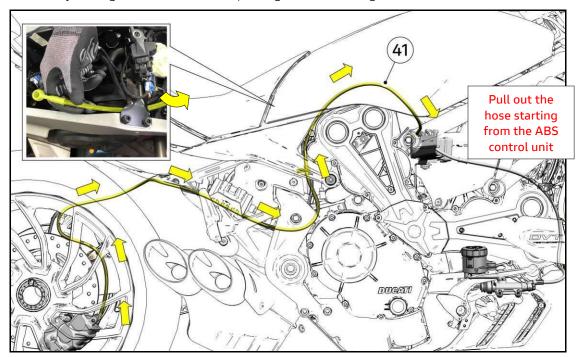


XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- 4. Working on the ABS control unit, remove the **special screw (55)** with the **2** copper **washers** (56) securing **brake hose (41)** to ABS control unit
- 5. Working on the rear brake caliper, remove the **special screw (57)** with the **2 copper washers (58)** securing **brake hose (41)** to rear brake caliper



6. Pull out brake hose (41) by first routing the ABS control unit fitting below the rear subframe jointing bracket and then pulling it out starting from the ABS control unit fitting





XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

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

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



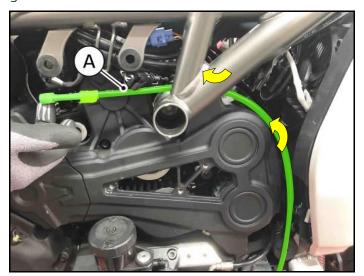
NOTE

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





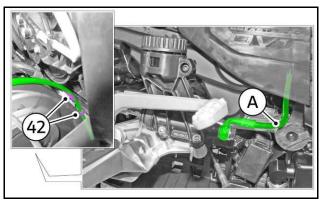
2. Insert the ABS control unit fitting of the **brake hose (A)** between the coolant radiator and the horizontal head cover and route it inside the frame until reaching the ABS control unit, as shown in the figure

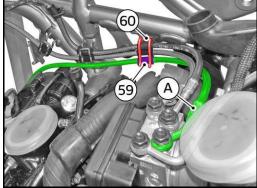




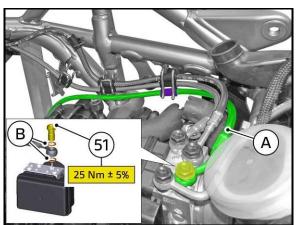
CR211 - Rear Brake Hoses Replacement XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

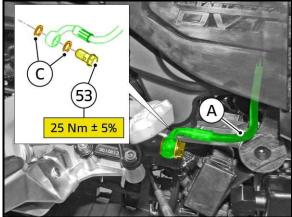
- 3. Route hose (A) between the 2 tabs (42) present on the coolant radiator
- 4. Position the seal (59) inside hose grommet (60) present on frame





- 5. 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 (51) to 25 Nm ± 5% with certification
- 6. Fasten the rear brake master cylinder fitting as shown in the figure using 2 new copper washers (C) and tighten the special screw (53) to 25 Nm ± 5% with certification







XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

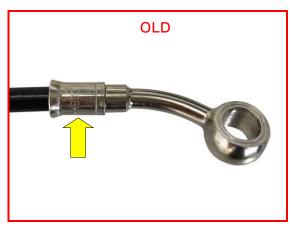
Part 4: New Rear Brake Hose Installation - Brake hose connecting the ABS control unit to the rear brake caliper

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



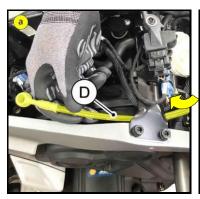
NOTE

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

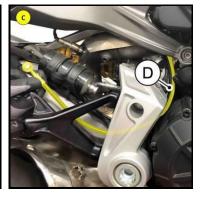




- 2. Install the brake hose (D) as indicated below:
 - 2.1 Route the ABS control unit fitting below the rear subframe jointing bracket
 - **2.2** Insert the rear brake caliper fitting of the **brake hose (D)** between the rear subframe and the vertical head exhaust manifold
 - 2.3 Route the brake hose (D) between the footrest holder plate and the swinging arm



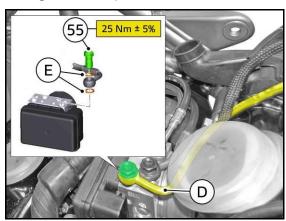


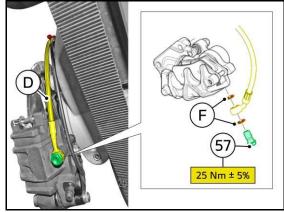




XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- 3. 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 Nm ± 5% with certification
- 4. Fasten the rear brake caliper fitting as shown in the figure using 2 new copper washers (F) and tighten the special screw (57) to 25 Nm ± 5% with certification

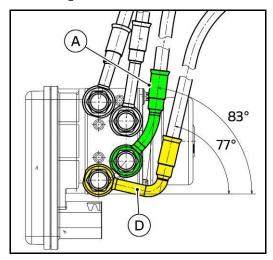






WARNING

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.



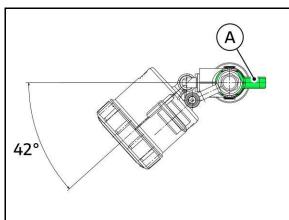


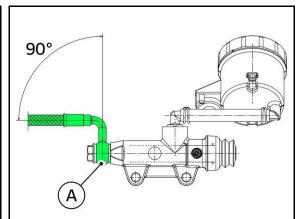
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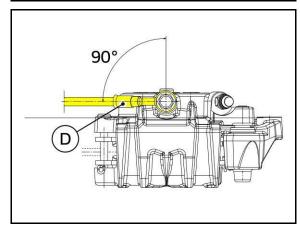


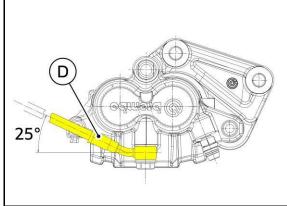
WARNING

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





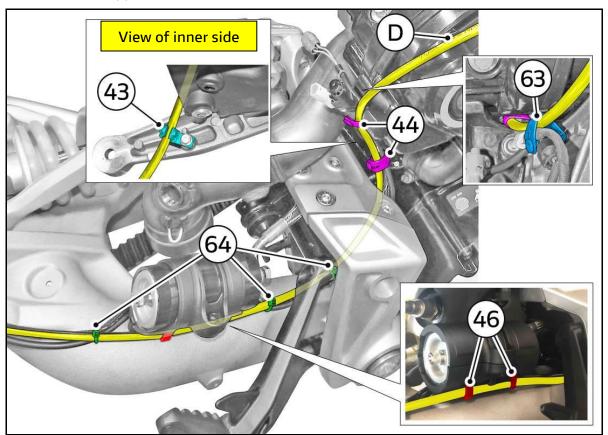






XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- **5.** Fasten the new **brake hose (D)** connecting the ABS control unit to the rear brake caliper, as shown below:
 - 5.1 Insert brake hose (D) inside the cable guide (43)
 - **5.2** Join the **brake hose (D)** to the speed sensor cable and the rear turn indicator cable using the **2 L.39mm button ties (44)**
 - **5.3** Join the **brake hose (D)** to the speed sensor cable connector and the rear turn indicator wiring branch using the **L.39mm button tie (63)**
 - **5.4** Join the **brake hose (D)** to the speed sensor cable and the rear turn indicator cable using the **3 small self-locking ties (64)**
 - **5.5** Insert the **brake hose (D)** inside the **2 teeth (46)** present on the rear shock absorber reservoir support





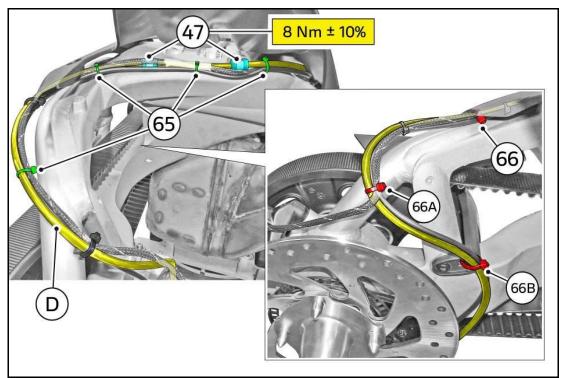
XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- **5.6** Fasten **brake hose (D)** to the swinging arm using **2 hose grommets (47)** and tighten the relevant retaining screws to **8 Nm ± 10%**
- **5.7** Install **4 small self-locking ties (65)** joining the **brake hose (D)**, the speed sensor cable and rear turn indicator cable
- **5.8** Install **3 big self-locking ties (66)** joining the **brake hose (D)**, the speed sensor cable and rear turn indicator cable in the following two locations:
 - the tie (66A) in correspondence of the clip on the swinging arm;
 - the tie (66B) in correspondence of the drive belt protection.



NOTE

Install the tie (66B) ONLY AFTER filling and bleeding the brake system to allow actuating the rear brake caliper.





XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

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-17-001 valid for the XDiavel model. The video of the bleeding procedure can be watched at the following link: https://youtu.be/hQo1FHPA6-U.



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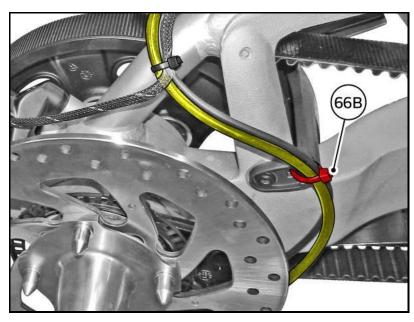






NOTE

Install the big self-locking **tie (66B)** in correspondence of the drive belt protection.

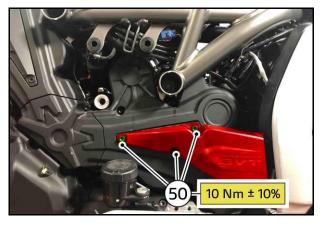




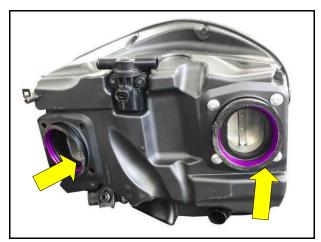
XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Part 6: Vehicle Refitting

- 1. Fit the rear mudguard (See Sec.5: "Fairing installation Front and rear mudguard")
- 2. Refit the rear wheel (See Sec. 7: "Chassis Rear wheel" of the Workshop Manual)
- 3. Fit the air conveyor on the horizontal belt cover and tighten the 3 M6x18 screws (50) to 10 Nm ± 10%



4. Remove the adhesive tape from the intake manifolds and apply soapy water on the rubber profile for intake manifold connection at the bottom of the Airbox

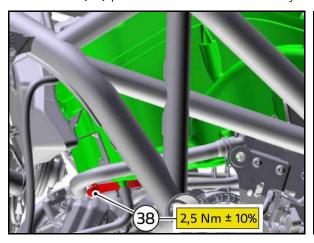


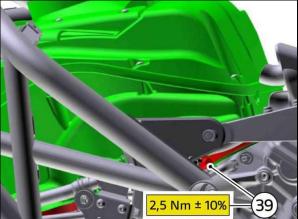
5. Install the Airbox on the vehicle making sure that the two intake manifolds are perfectly fitted inside it



CR211 - Rear Brake Hoses Replacement XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

6. Working on vehicle LH side, fasten the Airbox using **tie (38)** at the horizontal cylinder head and **tie (39)** positioned on the vertical cylinder head and tighten to <u>2.5 Nm ± 10%</u>





- 7. Working on vehicle RH side:
 - 7.1 install horizontal cylinder head pressure sensor pipe (33) and secure it with clamp (34)
 - 7.2 connect horizontal cylinder head pressure sensor connector (35)

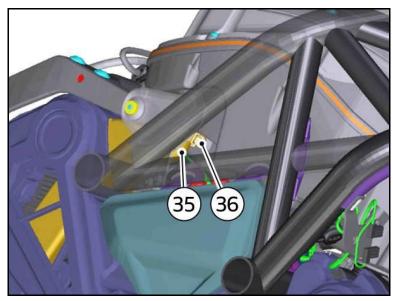






XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

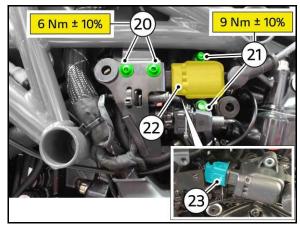
7.3 connect Airbox blow-by hose (35) and secure it with tie (36)



8. Working on vehicle LH side

- 8.1 Connect secondary air (AIS) connector (24)
- **8.2** Connect the ignition coil **connector (23)** and fasten the **coil (22)** to the relevant support by tightening the **2 M6x25 screws (21)** to **9 Nm ±10%**
- **8.3** Install the connector support tightening **2 M6x10 screws (20)** to <u>6 Nm ± 10% with LOCTITE 243</u> applied along the threads

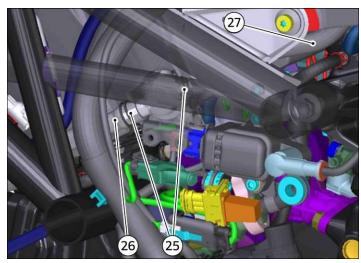




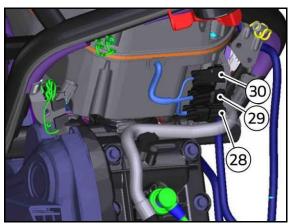


CR211 - Rear Brake Hoses Replacement XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

8.4 Install horizontal head secondary air pipe (26) and vertical head secondary air pipe (27) in correspondence of the actuator and fasten them using 2 spring retainers (25)



- 8.5 Connect vertical cylinder ETV (28), injection (29) and horizontal cylinder ETV (30) connectors
- 8.6 Connect the Airbox drain hose (32) and secure it with tie (31)

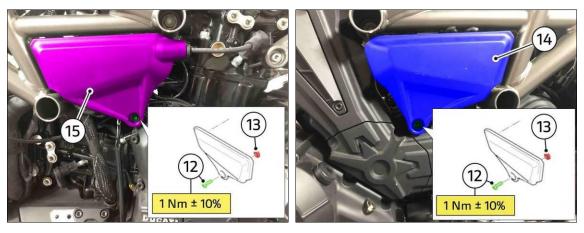






XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

8.7 Install RH cover (14) and LH cover (15) with relevant spacers (13) tightening the 2 M6x22 screws (12) to 1 Nm ± 10%



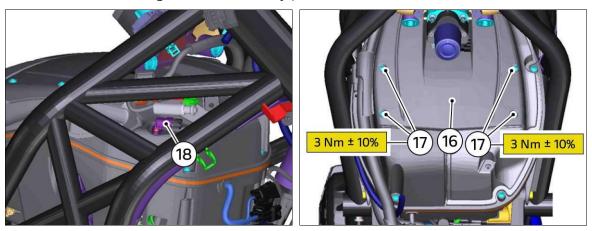
8.8 Connect the air temperature sensor connector (18)

8.9 Fit the filter cover (16) and tighten the 4 self-tapping screws (17) to 3 Nm ± 10%



NOTE

Before carrying on with the tightening, start the **self-tapping screws (17)** taking care to start them in the original thread already present.





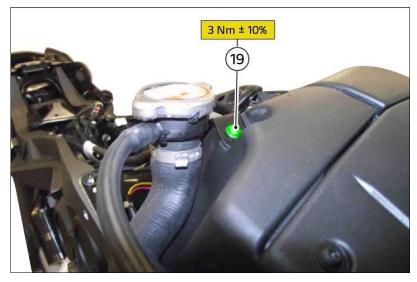
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9. Install the coolant filling plug support and tighten the retaining self-tapping screw (19) to 3 Nm ± 10%

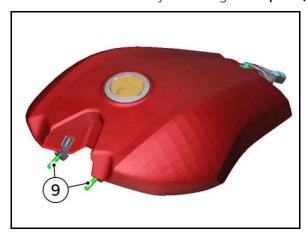


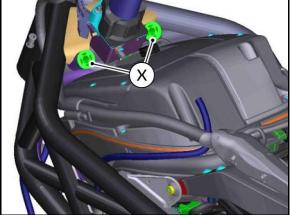
NOTE

Before carrying on with the tightening, start the self-tapping screw (19) taking care to start it in the original thread already present.



10. Install the fuel tank by inserting the 2 pins (9) in the relevant supports (X)

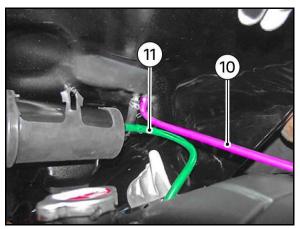


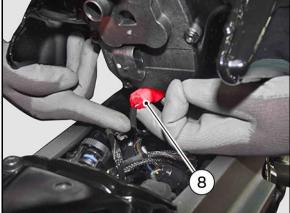




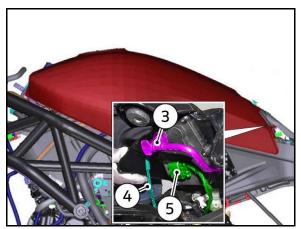
XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

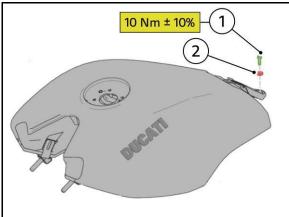
- 11. Connect the drain hose (10) and the breather tube of the canister filter (11)
- 12. Connect the fuel level sensor connector (8)





- 13. Connect the fuel supply hose (3), the ground cable (4) and the fuel pump connector (5)
- 14. Fasten the fuel tank and tighten the M6x20 screw (1) with the relevant washer (2) to $\underline{10}$ Nm \pm 10%



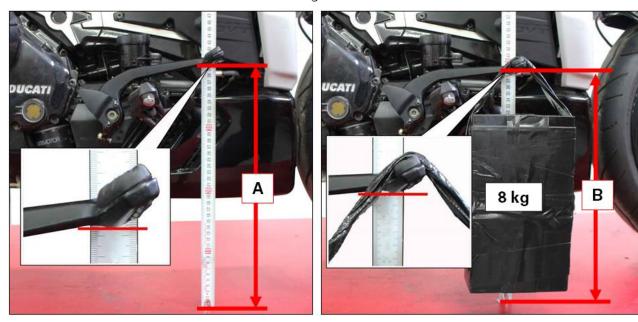


- **15.** Start the engine and keep it at idle until reaching the fan activation condition
- 16. Connect the DDS 2.0 diagnosis instrument and run a Global Scan
- 17. Mount the seat



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

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



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

Rear brake lever stroke 1 = (A1) - (B1)

- 21. Road test the vehicle on the road at a speed of about 30 mph/ 50 Kph and, by operating only the rear brake, brake until the ABS is engaged at least 10 times
- 22. Measure again the rear brake lever stroke as referred to under Part 6, step 18



WARNING

The measurement of the rear brake lever stroke required in point (22) must be taken with the same temperature conditions of point (18). Therefore, if the measurement was taken with cold engine, it will be necessary to wait for 2 hours before proceeding.

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

Rear brake lever stroke 2 = (A2) - (B2)



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

- 24. Compare the 2 stroke values of the rear brake lever
- **25.** If a stroke increase of the rear brake lever is detected, <u>repeat the whole bleed procedure</u> from Part 5,
- **26.** Once the new bleeding procedure is completed, check that the stroke of the rear brake lever has not increased
- 27. Perform a soft cleaning of the vehicle before delivering it to the Customer



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Campaign Authorization

Ducati North America, Inc. will mail a notification letter to all known owners. If a customer does not present this notification letter, it is important that you confirm the eligibility for recall status on the DCS before you commence work. Reimbursement requests for duplicate recall campaign repairs will not be accepted.

Dealer Obligation

This program is designed to complete the necessary repairs and to achieve owner satisfaction. Therefore, we ask that you to take prompt and courteous action in accordance with these directives. Please provide a copy of this communication to every person in your dealership who has recall-related responsibilities. Please direct any questions or concerns to your Service Area Manager.

Thank you for your cooperation.

Service Department Ducati North America, Inc.

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



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

IMPORTANT SAFETY RECALL

This notice applies to your vehicle: VIN XXXXXXXXXXXXXXXXXX

NHTSA Recall No. 21V-XXX

May 27, 2021

Customer Name Customer Address City, St, Zip Code

Subject:

Ducati Motorcycle: XDiavel MY 2016-2020 all model versions (USA and CAN only)

NHTSA Campaign I.D. Number: 21V-XXX

Dealer Bulletin: SRV-RCL-21-004

Dear Ducati Owner,

This notice is sent to you in accordance with the requirements of the U.S. National Traffic and Motor Vehicle Safety Act. Ducati Motor Holding S.P.A. has decided that a defect which relates to motor vehicle safety exists in certain XDiavel MY 2016-2020 all versions (USA and CAN only). Our records indicate that you are the owner of a Ducati motorcycle affected by this safety recall campaign. Please take the time to read this letter and help us take the appropriate steps to ensure that your vehicle is operating properly.

What is wrong?

It has been determined that due to brake system architecture, there is a potential for greater susceptibility for air permeation through the rear brake hoses into the rear brake system, reducing rear brake effectiveness. If this issue develops during normal use, it develops gradually, providing sufficient warning to the operator that rear braking performance may be degrading. If this issue develops after long periods of time without using the motorcycle, the rider during the pre-ride check (as recommended in the Owner's manual) would be warned by an increase of the rear brake pedal stroke. If this condition remains undetected, a rider who relies on rear braking may experience extended stopping distances, increasing the risk of a crash.

The front and rear brake system for this motorcycle are hydraulically independent; therefore, performance of the front brake, which provides full stopping ability, is NOT affected by the rear brake system.



XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

What will Ducati do?

An official Ducati dealer will replace the rear brake hoses free of charge. The repair will take approximately 3 hours to complete. Service time will vary depending on dealer scheduling.

Please, contact your local Ducati Service center as soon as possible to schedule an appointment for the repair. You may continue to operate your motorcycle to reach your Ducati authorized dealer. If your rear brake system is inoperable, or if you feel uncomfortable riding the motorcycle, please discontinue operating the vehicle, then contact our roadside assistance provider at 800-234-1353 to facilitate a tow service to your nearest Ducati dealer.

To locate your nearest authorized Ducati dealer, please go to www.ducati.com, and select the "dealer locator" or you may call toll free from the U.S. 1-888-391-5446.

Federal regulations require that any lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Service Problem Help:

If you believe that your dealer has failed or is unable to remedy the defect without charge, or within a reasonable period of time, please contact Ducati North America Customer Care at 1 (888) 391-5446.

If you cannot obtain satisfaction, please use the following options:

For USA Customers:

If you are still having difficulty getting your vehicle repaired in a reasonable time or without charge, you may write the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave. S.E., Washington, D.C. 20590

Or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY 1- 800-424-9153), or go to www.safercar.gov.

For Canadian Customers:

Please contact Ducati customer service at 1-888-391-5446 or for additional information about the recall you, can contact Transport Canada at 1-800-333-0510.

TREAD ACT CUSTOMER REIMBURSEMENT PLAN

If you have paid for the repair described in the attached letter, and you would like to be considered for reimbursement, please contact your authorized Ducati dealer. Expenses from repair facilities outside of the authorized Ducati dealer network will be considered; however, the procedure must meet Ducati North America's standards.



CR211 - Rear Brake Hoses Replacement XDiavel Model Year 2016-2020 (USA-CAN only) Safety Recall Campaign SRV-RCL-21-004

Your authorized Ducati retailer will request a copy of your owner notification letter, as well as, a copy of your previously paid invoice. They will inspect the vehicle, if still in your possession, prior to submitting a claim on your behalf to Ducati North America, Inc. for reimbursement. Only a repair involving this safety recall campaign is reimbursable. Ducati North America, Inc will not reimburse consequential expenses such as towing, rental, and accommodations.

We recommend that your authorized Ducati dealer be your primary contact on this issue. We anticipate that your authorized Ducati dealer will be able to answer any questions that you may have regarding your qualifications for reimbursement of a previous repair; additionally, our Customer Relations Dept. may be contacted at 888-391-5446 for any special assistance required.

What if you no longer own the vehicle?

If you no longer own the vehicle, please e-mail your change of ownership information to ContactUs@ducati.com or contact Ducati North America Customer Care at 1 (888) 391-5446.

We regret any inconvenience to you from this action; however, your safety and satisfaction are important to us.

Sincerely,

Richard Kenton Technical Director – Ducati North America