



CR158 – Replacement of clutch actuator slave cylinder Scrambler 1100 Model Year 2018 (all model versions) Service Repair Bulletin SRV-TSB-18-012

Date: June 6, 2018
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 tests and the analysis of our supplier identified a condition that may potentially result in fluid seepage at the clutch actuator slave cylinder, that could result in an erratic operation of the clutch. Therefore, we decided to preventively upgrade the vehicles involved and install an improved clutch actuator slave piston kit.

Application

You can find the precise list of VIN numbers involved in CR158 on the DCS, in sections:

VIN HISTORY		You can consult the single frame number.
CAMPAIGNS		You can consult all the VIN numbers that Ducati Motor Holding sent you.

SCRAMBLER 1100 YELLOW 2018 CAL DMH							
VIN #	ZDMKAFCP5JB00 XXXX	ENGINE #	AFC XXXX	WTY END DATE	05/30/2020		
END CUSTOMER	Corsa Moto Transport, Inc.	MANUFACT DATE	04/19/2018	INVOICE	04/27/2018		
WARRANTY TYPE	Standard Warranty	WTY START DATE	05/31/2018	LAST MILEAGE	0 MI		
N	TYPE	ID NUMBER	REPAIR DATE	DEFECT	CAUSAL PART	DEALER	MILEAGE
1	RECALL	CR158		SRV-TSB-18-012 REPL. OF CLUTCH SLAVE CYL		VIEW APPLY	

Customer Impact

All bikes in dealer stock ('to be registered' or 'already registered') and awaiting delivery to final customers will require this inspection during pre-delivery operations, before delivery to the final customer. All bikes already delivered to final customers must undergo this inspection and below procedures at the next service appointment.

Parts Distribution

The parts necessary to perform this Workshop Campaign CR158 must be ordered Individually by VIN.



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Warranty Reimbursement

Reimbursement for work associated with this Safety Recall Campaign will be done through the regular warranty claim procedure using the “Vehicle History” section of the DCS. The warranty claim is pre-filled and is identified as **CR158**.

You will be reimbursed for [REDACTED] of labor time ([REDACTED] labor units) that includes the time necessary for:

- A. Vehicle acceptance
- B. Replacement of clutch actuator slave cylinder with kit part no.61041941A
- C. Compensation for the cost of DOT 4 fluid
- D. Light cleaning of the vehicle

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Parts List

The kit part no.61041941A required to perform the upgrade includes:

Part no.	Description		Photo	Quantity (pcs)
61041941A		Grease (A)		1
		Clutch actuator slave cylinder (B)		1
		Copper washers (C)		2



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Service Solution

To perform the update process in the time provided, it is necessary to follow all instructions in the sequence of operations provided in this bulletin

1.0 Position the bike on the rear paddock stand with engine off

2.0 Use a **self-locking tie (1)** to keep the clutch lever slightly pulled approximately at half its travel as shown in the figure



NOTE

Do NOT use a rubber band since it would move the lever when the clutch actuator unit is removed



3.0 Turn handlebar straight and use a cloth to protect the parts near and under the clutch master cylinder, as shown in the figure



WARNING

The clutch fluid is harmful in case of contact with your eyes or skin. Wash the affected area thoroughly with water in case of accidental contact





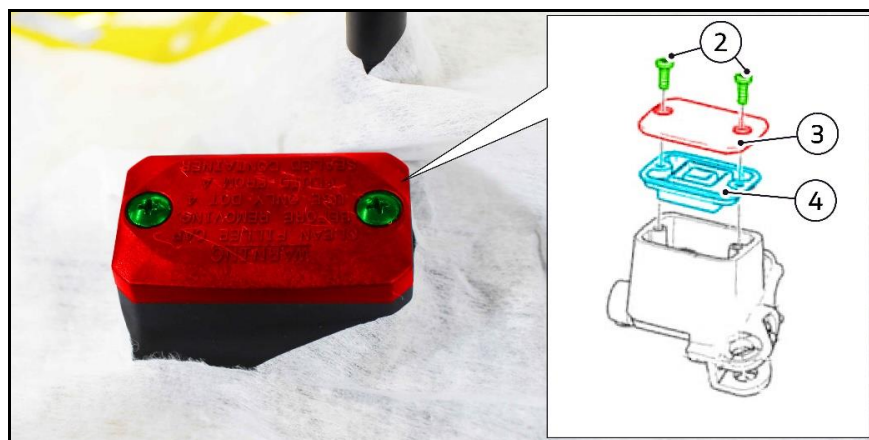
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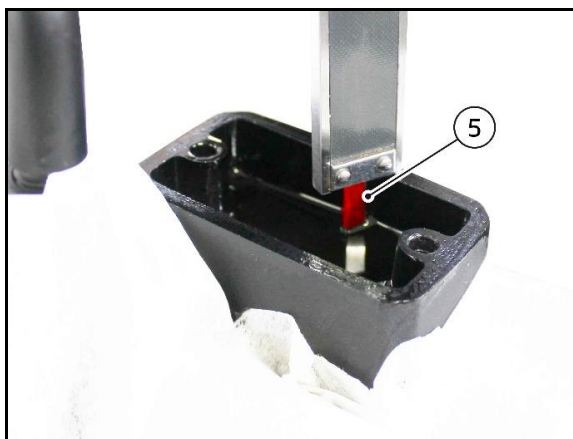
NOTE

Damage to vehicle components due to brake fluid spillage will not be covered by warranty

- 4.0 Remove the **2 screws (2)** retaining the clutch fluid **reservoir cap (3)** then remove the **reservoir cap (3)** and **diaphragm (4)**



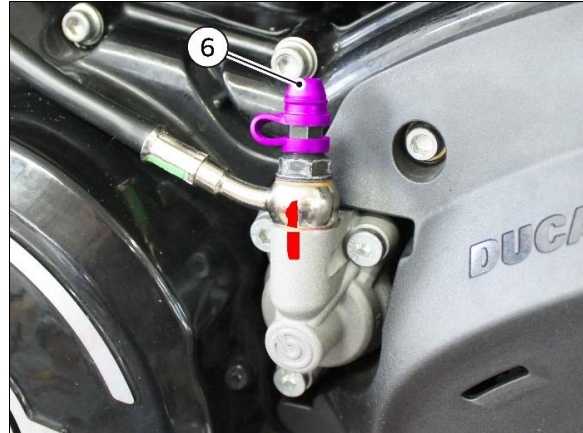
- 5.0 Measure and record the clutch fluid level in the reservoir. Set a gauge on the clutch fluid reservoir surface and bring **stylus (5)** down until it touches the surface of the fluid





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6.0 Mark the clutch control hose union and the clutch actuator unit with a felt-tip pen as shown in the figure to enable correct positioning at reassembly, then remove the **bleed cap (6)**

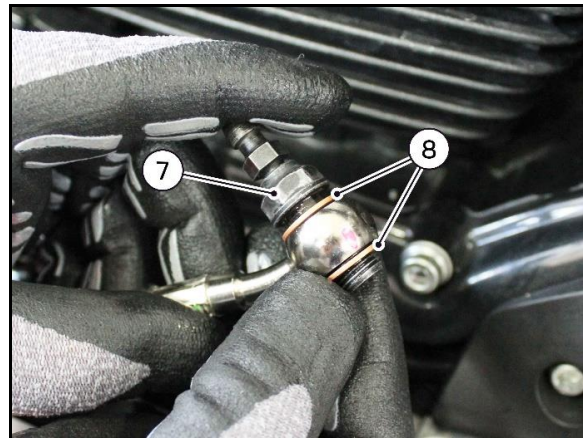
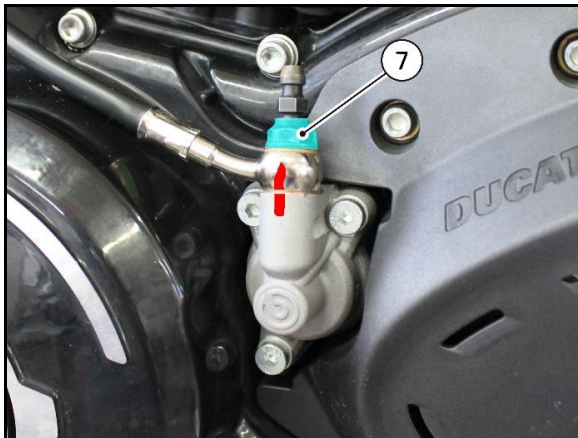


7.0 Remove the connection **screw (7)** with **2 copper washers (8)** and allow hose to drain into suitable waste fluid container



NOTE

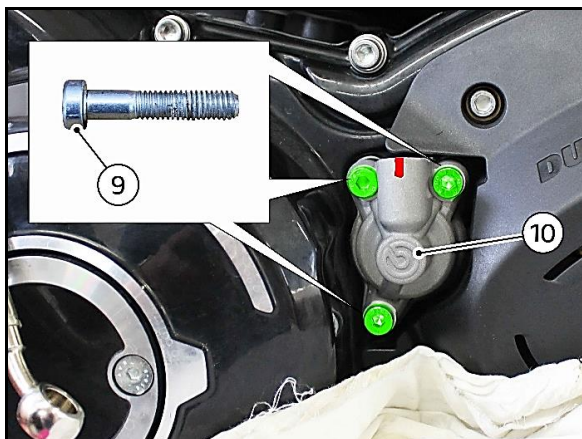
Protect the surrounding area with a cloth to prevent the fluid inside the clutch actuator unit from touching the silencer or other components



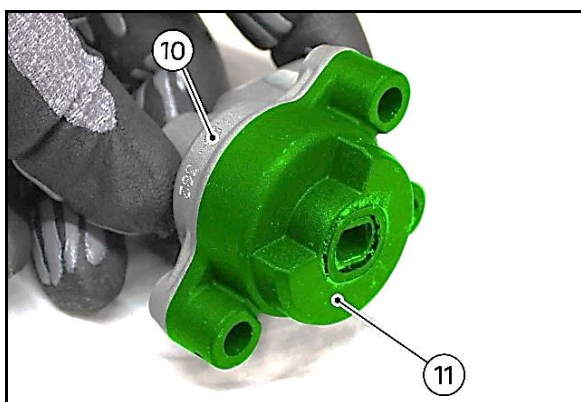


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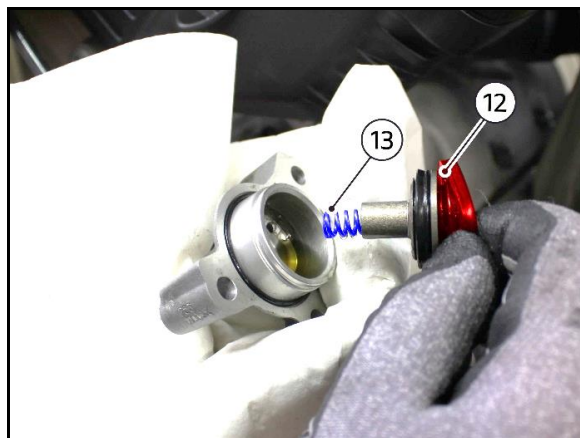
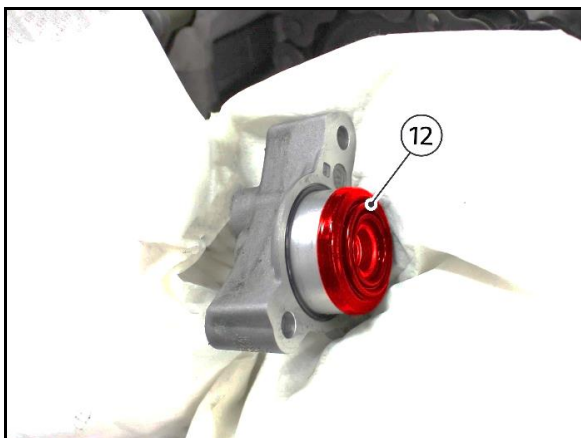
8.0 Remove the **3 M6x30 screws (9)** that retain the **clutch actuator unit (10)**, then remove the **clutch actuator unit (10)** from the motor and clutch pushrod



9.0 Remove the **spacer (11)**, from **clutch actuator unit (10)**



10.0 Remove the clutch actuator slave cylinder by pulling it outward to release the **rubber boot (12)** and the **spring (13)**.





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NOTE

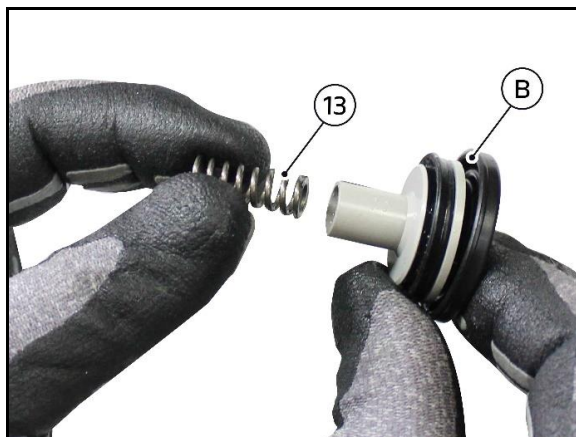
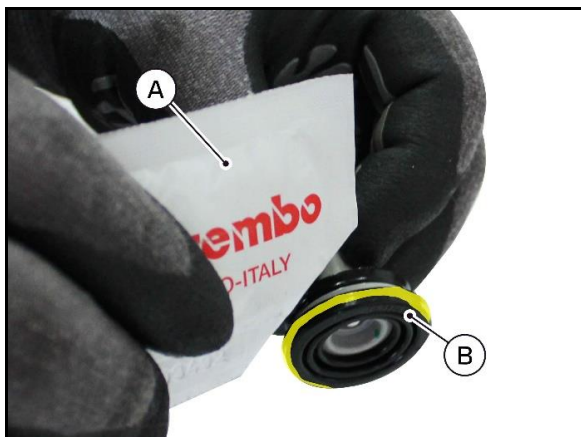
Thoroughly clean any fluid residue from inside the clutch actuator unit with a paper cloth

11.0 From the kit part no.61041941A locate the new clutch actuator slave cylinder. The new version can be identified by a new surface treatment with a smoother surface for better system sealing



12.0 Take **grease (A)** from kit part no.61041941A and apply it along the rubber seal of the new **cylinder (B)**

13.0 Insert the previously removed **spring (13)** inside the new **clutch actuator slave cylinder (B)** as shown in the figure





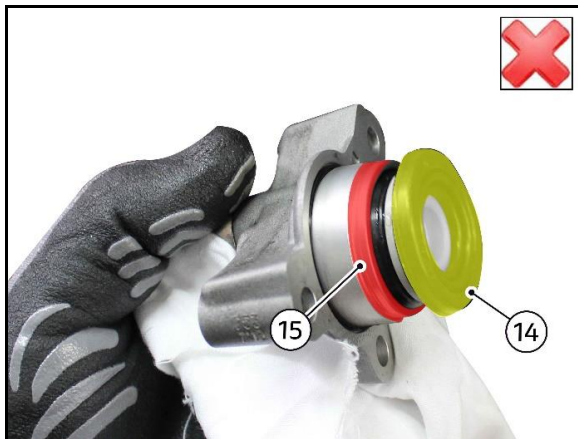
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14.0 Insert the spring-clutch actuator slave cylinder assembly inside the clutch actuator by pushing it in the axial direction



WARNING

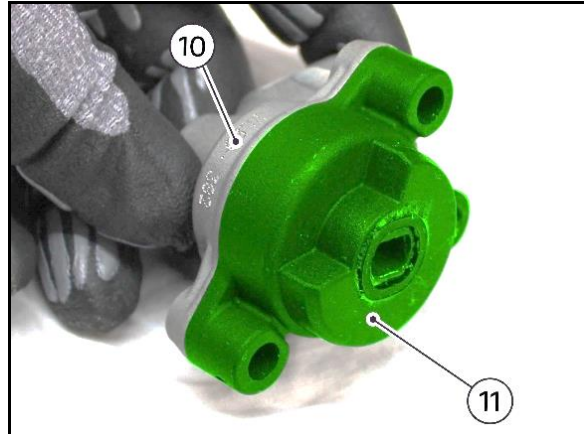
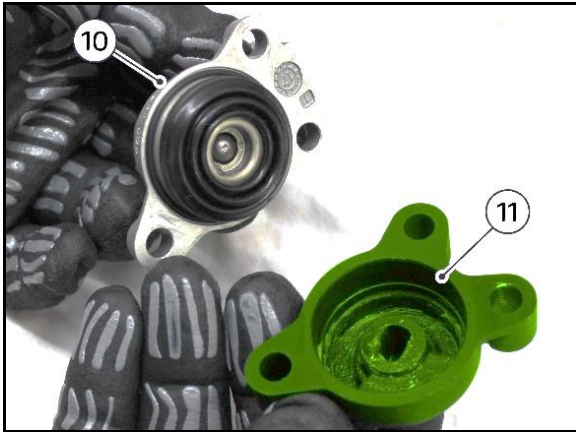
Check that the clutch actuator slave cylinder has been inserted correctly inside the actuator so that the rubber **boot (14)** is correctly positioned along the circumference on the **seat (15)**



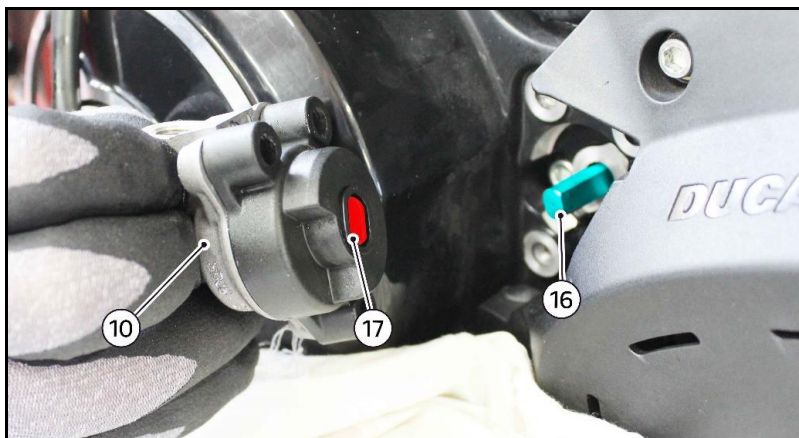


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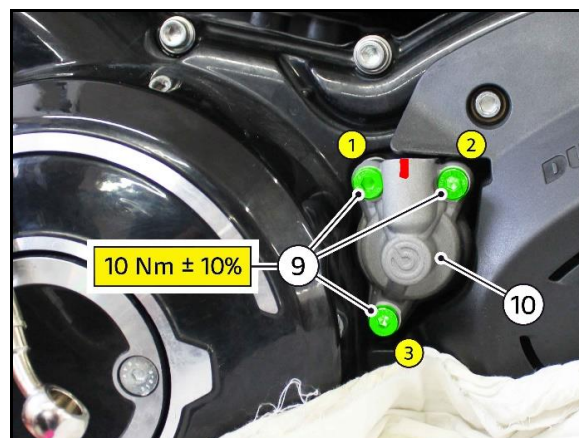
15.0 Install **spacer (11)** onto **clutch actuator unit (10)**, positioning it as shown in the figure



16.0 Install the **clutch actuator unit (10)** matching the position relative to **clutch control rod (16)** and **seal (17)** fitted to the spacer



17.0 Start the **3 M6x30 screws (9)** that retain the **clutch actuator unit (10)**. Then tighten **the 3 screws M6x30 (9)** to **10 Nm $\pm$ 10%**, following tightening sequence **1-2-3-1**



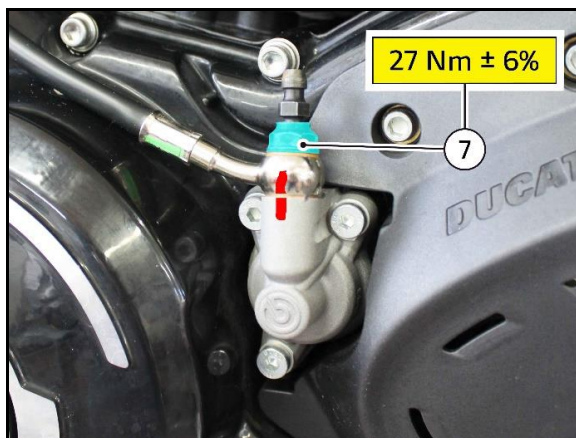
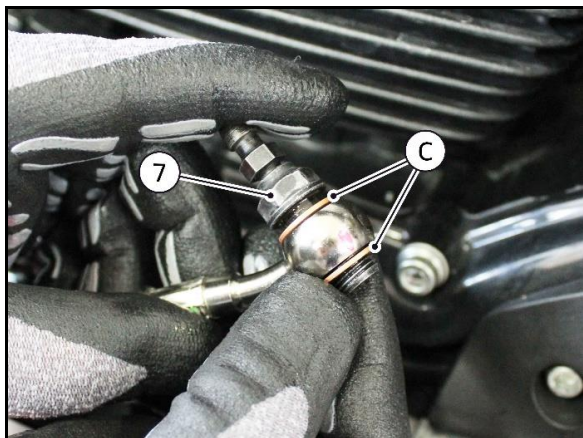


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18.0 Take the new copper washers from the kit part no.61041941A

19.0 Insert the **connection screw (7)** with the **2 new copper washers (C)** on the clutch control hose union as shown in the figure and position it on the previously marked point on the clutch actuator unit

20.0 Tighten the **connection screw (7)** to **27 Nm $\pm$ 6%**



NOTE

Check that there is NO contact between the clutch control hose union and the generator cover

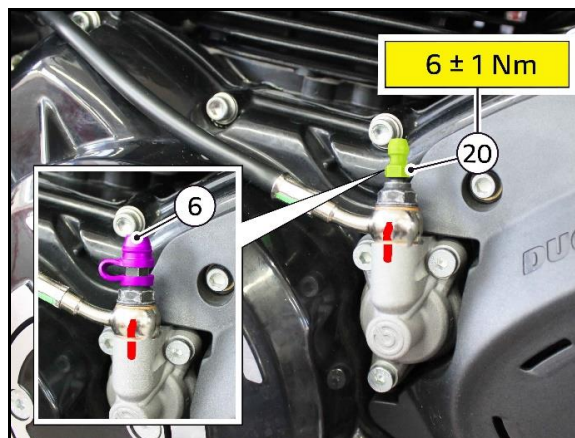
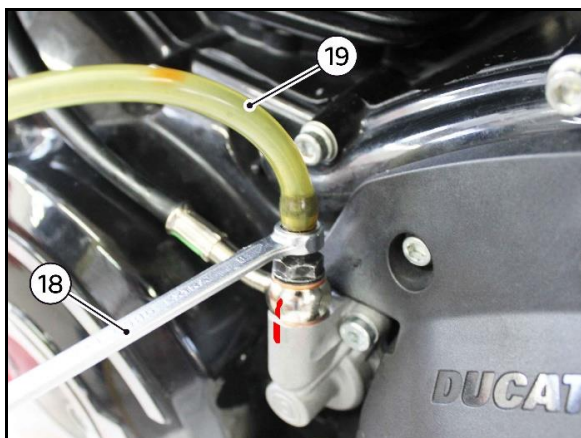
21.0 Remove the self-locking tie from the clutch lever and bleed the clutch system as follows

21.1 Insert the **wrench (18)** in the bleed valve and fit the **hose (19)** of the bleeder vessel on the bleed valve of the clutch actuator unit

21.2 Slacken the bleed valve and pump the clutch lever, while progressively filling the reservoir with DOT 4 so that the fluid level never goes below the half of the reservoir. Pump the clutch lever until you no longer see air bubbles coming out of the bleeder hose

21.3 Remove hose and wrench

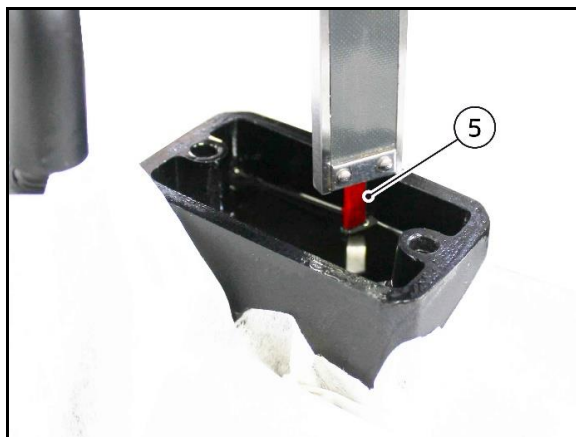
21.4 Tighten the **bleed valve (20)** to **6 $\pm$ 1 Nm** and fit the **bleed cap (6)**





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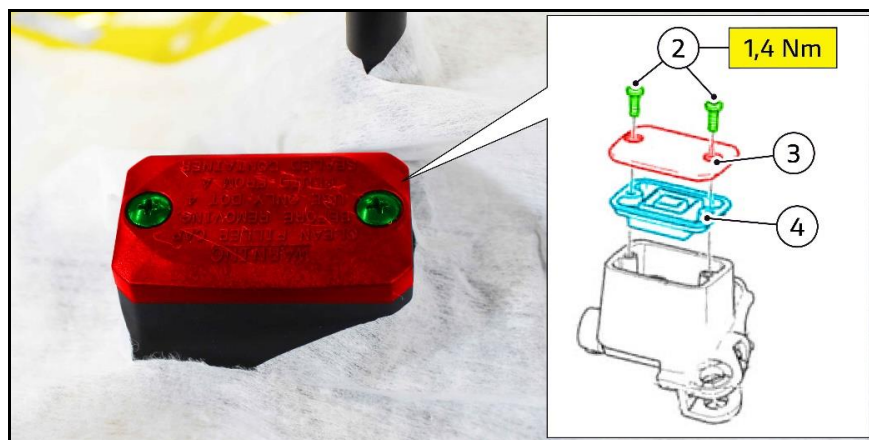
22.0 Fill the clutch fluid reservoir with DOT 4 until reaching the level previously measured with gauge **stylus (5)**



23.0 Flush the diaphragm and the clutch fluid reservoir cap with WATER ONLY, and dry with compressed air

24.0 Install parts in this sequence: **diaphragm (4)** and **cap (3)**, positioning them as shown in the figure

25.0 Start the **2 screws (2)** and tighten to **1.4 Nm**



26.0 Remove the cloths and use water to clean any fluid residue

27.0 Remove the rear paddock stand



NOTE

The clutch fluid could damage the paint or parts of the bike. Wash the affected area with plenty of water in case of accidental contact during and after completion of work

For questions related to this Technical Service Bulletin please contact your Service Area Manager