



Procedure to check and adjust the clutch fluid pressure

All models with adjustment threaded dowel from MY 2015 to MY 2018

Service Repair Bulletin SRV-SRB-18-028

Date: October 9, 2018
To: Dealer Principal, General Manager, Service Manager, North American Dealer Network
From: Richard Kenton, Technical Director
Eric Bradley, Technical Training and Publications Manager

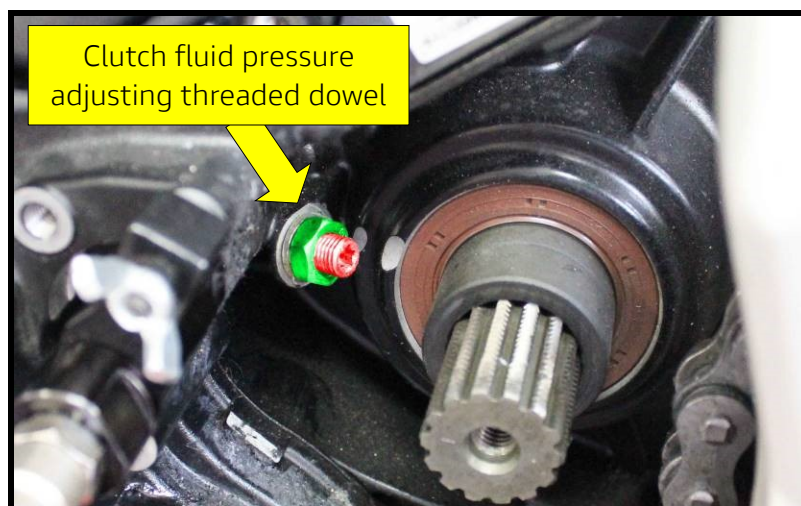
Dear Dealers,

Situation

Through ongoing analysis of customer concerns, we have identified reports of difficult detection of the "neutral" gear (N) with consequent possible engine cranking. The clutch installed on the Ducati models has been designed so that, both in cold engine (ambient temperature) and warm engine conditions, the correct quantity of oil and pressure are ensured for a proper lubrication of all mechanical parts for correct operation.

This Service Bulletin is to provide you with the correct procedure to measure and adjust the clutch oil pressure if the situation mentioned above should occur or in case of crankcase replacement. Note: this procedure applies only to the models with adjusting threaded dowel.

Beginning January 2018, the clutch oil pressure check is carried out in the production department. All new units manufactured since that time should not require adjustment unless necessary during other service or repair work.







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Tools

The tools listed below are part of Ducati Service minimum standard requirements.


Part no.	Image	Models (all versions)	Model Year
887132695		Hypermotard / Hyperstrada 939	2016-2018
		Scrambler Sixty2	2016-2018
		Scrambler 800	2015-2018
		Scrambler 1100	2018
		Monster 797	2017-2018
		Monster 821	2015-2018
		Monster 1200	2017-2018
		Multistrada 950	2017-2018
		Multistrada 1200	2015-2017
		Multistrada 1260	2018
		SuperSport	2017-2018

Part no.	Image	Models (all versions)	Model Year
887136156		Diavel	2015-2018
		XDiavel	2016-2018



NOTE

Due to different crankcase design on the Diavel and XDiavel models, it is necessary to use the mounting base portion of tool part no. 887132695, remove the oil pressure detection rod and fit rod part no.887136156 instead.

Part no.	Image	Models (all versions)	Model Year
887136155		Panigale V4	2018



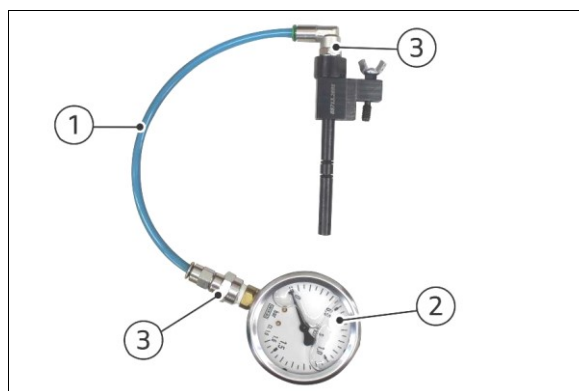
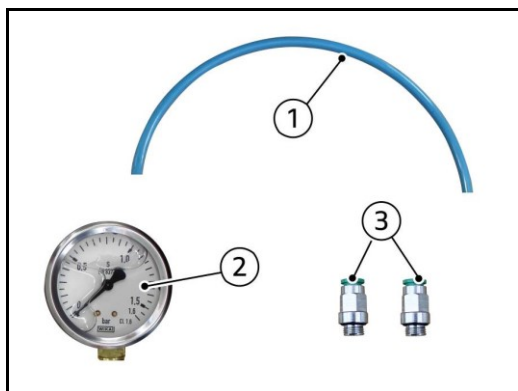
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In conjunction with the tools specified above it is also necessary to use a pressure measurement tool:

Analog oil pressure measurement

- A. Precision glycerin-filled **pressure gauge (2)** with incremental measurement from 0-2 bar
- B. Polyurethane **Rilsan pipe (1)** 40x60 mm and with a length of L=300mm
- C. Two **quick-release inserts (3)** for Rilsan pipes to connect the pressure gauge and the clutch pressure specific detection tool



Warranty Reimbursement

Fill in the warranty claim as follows:



NOTE

The time provided for every operation varies depending on the model

- 1) **Scenario A** – Clutch oil pressure measurement only

	Operation Code	Description
Scenario A	1-999-127	Clutch fluid pressure measurement

- 2) **Scenario B** – Clutch oil pressure measurement and adjustment

	Operation Code	Description
Scenario B	1-999-126	Clutch fluid pressure measurement and adjustment



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Service Solution:

Procedure to measure and adjust the clutch oil pressure



NOTE

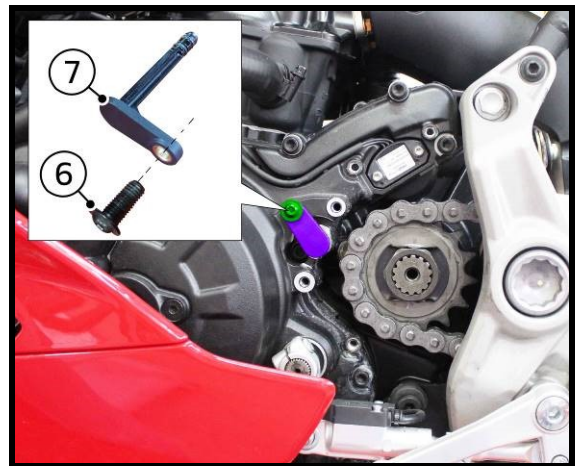
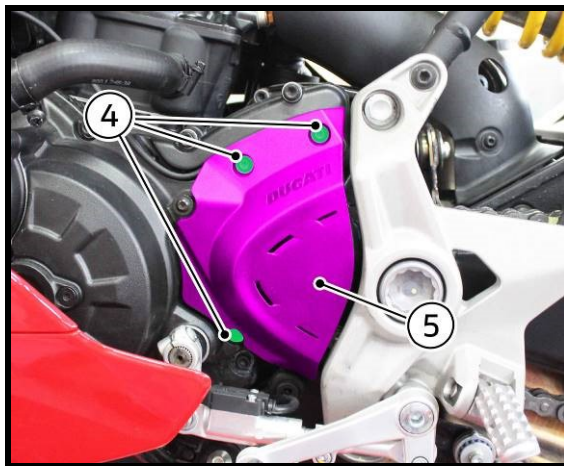
Following example is the procedure to measure and adjust the clutch oil pressure of the SuperSport model using the specific tool part no. 887132695. Proceed in the same method for the other models using the specific tool required for the model.



WARNING

To take the clutch oil pressure measurement correctly it is necessary that the test is performed with engine at ambient temperature (bike has not been running for approx. 12 hours).

1. Position the bike on the rear paddock stand
2. Take clutch oil pressure measuring tool part no.887132695 (Please refer to chart for the correct tool number applicable to the vehicle model being tested)
3. Install measurement tool on pressure adapter tool
4. Remove the 3 screws (4) M6x16 securing sprocket cover (5) and slide it out
5. Remove the screw (6) M6x16 securing plug (7) (for models with cable actuated clutch)





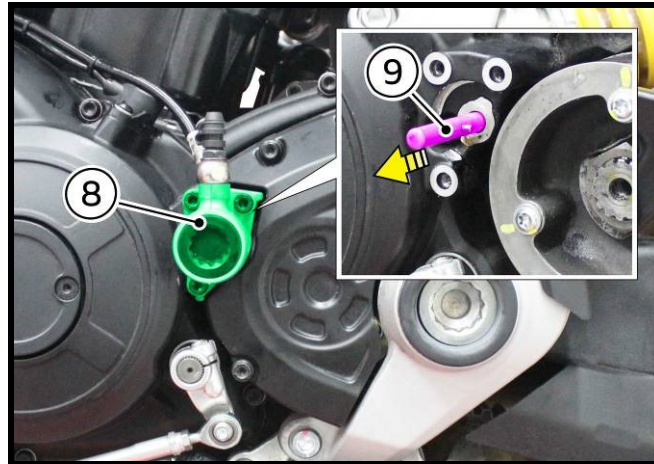
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NOTE

For the models with hydraulic clutch control rod it is necessary to remove the clutch actuator unit (8) and the control rod (9)

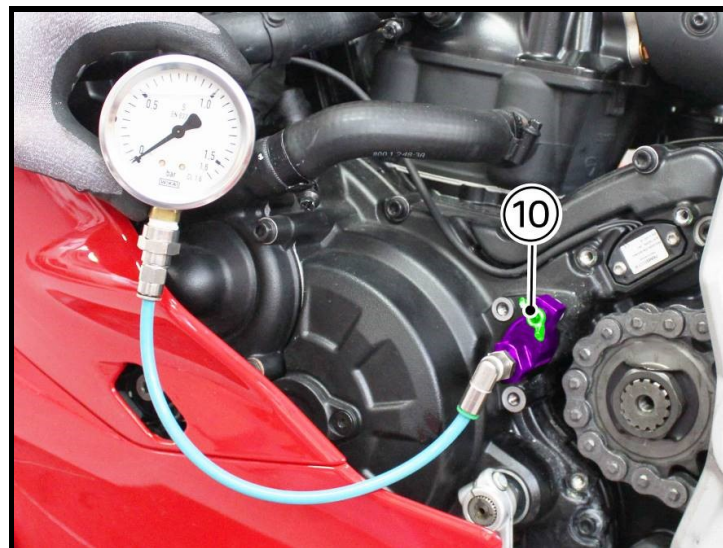


6. Install clutch oil pressure measuring tool part no. 887132695 and secure gently with **key (10)**



NOTE

The special tool part no.887132695 is used in this example with the SuperSport model. Please refer to chart for the correct tool number applicable to the vehicle model being tested





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WARNING

To correctly measure clutch oil pressure:

- The test must begin with **engine at ambient temperature** (bike has not been running for approx. 12 hours)
- Engine rpm: **2500 rpm**
- Pressure read and adjusted if needed within the first 30 seconds from engine starting to avoid oil temperature to increase beyond 30°C



NOTE

We recommend performing this operation with the help of a second operator to enable clutch oil pressure reading and adjustment, while maintaining the appropriate engine RPM

The following table shows the clutch oil pressure ranges for all models equipped with engine with pressure adjusting threaded dowel:

Models	Model Year	Pressure (bar) Temperature 30°C
Diavel	2015-2.018	0.20-0.30
XDiavel	2016-2.018	0.20-0.30
Hypermotard/Hyperstrada 939	2016-2.018	0.20-0.30
Monster 821	2015-2.018	0.20-0.30
Monster 1200	2017-2.018	0.20-0.30
Multistrada 950	2017-2.018	0.20-0.30
Multistrada 1200	2015-2.017	0.20-0.50
Multistrada 1260	2018	0.20-0.50
Scrambler 800	2015-2.018	0.05-0.30
Scrambler 1100	2018	0.20-0.30
SuperSport	2017-2.018	0.20-0.30
Panigale V4	2018	0.10-0.30



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NOTE

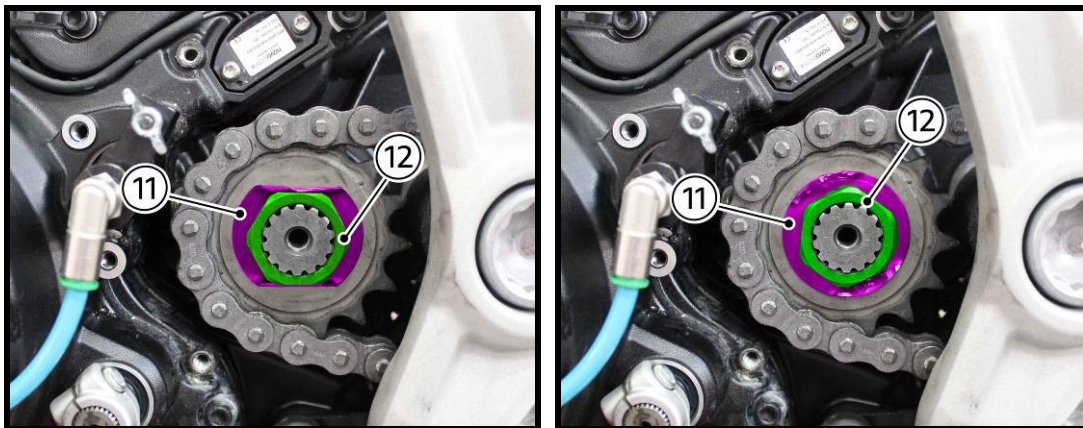
The pressure values indicated in the table have been defined only with the Ducati recommended SHELL Advance DUCATI 15W-50

7. Measure clutch oil operating pressure with the criteria defined above

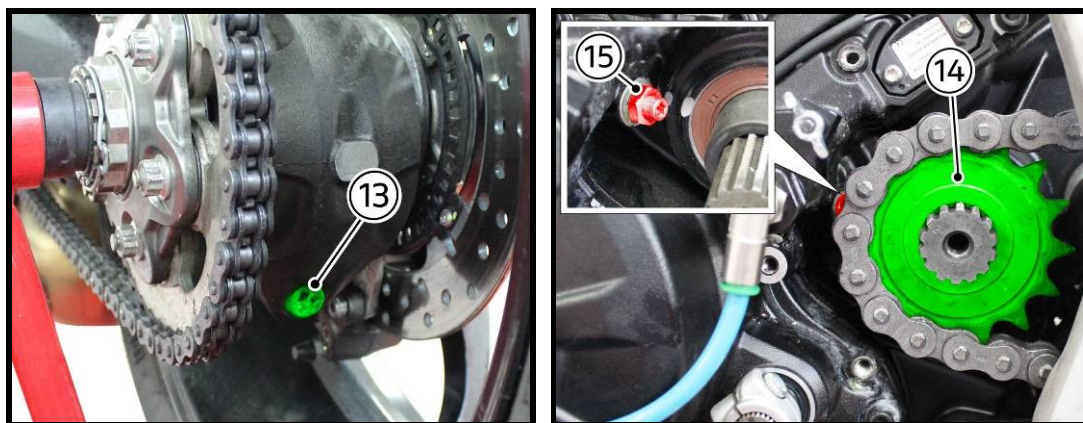
Scenario A: If the value detected by the pressure gauge is within the range indicated in the table, go on to **Step 19**

Scenario B: If the value read by pressure gauge is not within the range specified in the table, Adjust the pressure at the threaded dowel, continue from **Step 8**

8. Straighten the lock washer (11) tabs
9. Remove nut (12) that retains the sprocket and lock washer (11)



10. Loosen the chain by loosening **special screw (13)** then rotating eccentric hub clockwise (Counter clockwise for V4 and SL2)
11. Remove the **sprocket (14)** to reach the adjusting threaded **dowel (15)**





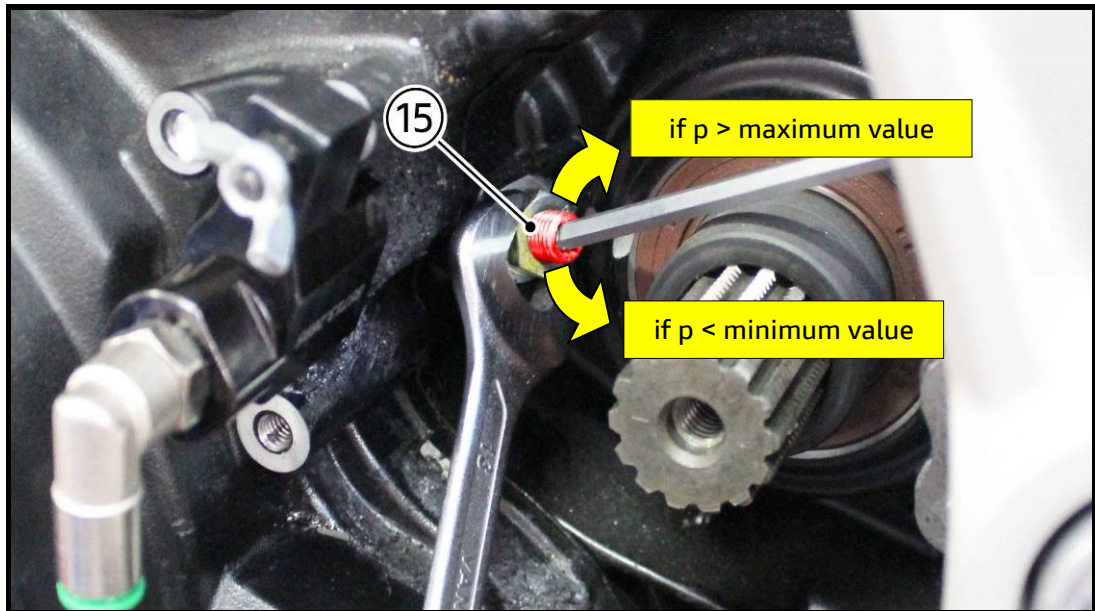
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12. Repeat the measurement procedure provided in **Step 7**

To restore the correct pressure value indicated in the table loosen the 13mm lock nut and:

- A. turn the 4mm **adjusting dowel (15)** clockwise if the measured pressure value is above the maximum value
- B. turn the 4mm **adjusting dowel (15)** counter clockwise if the measured pressure value is below the minimum value



NOTE

If the clutch oil pressure will not adjust to the range indicated in the table perform the following operation:

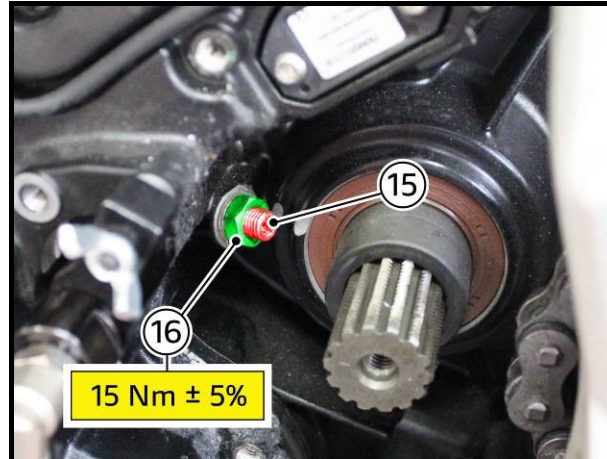
1. Remove the adjusting dowels completely
2. Remove the spring
3. Remove the ball
4. Check that the oil passages are not clogged
5. Use low-pressure compressed air to clean the passages



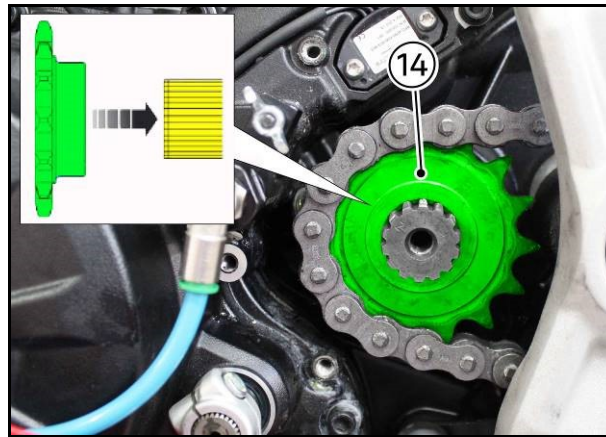
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13. After the adjustment, tighten the nut (16) to 15 Nm \pm 5% avoiding rotation of the adjusting dowel (15)



14. Fit sprocket (14) and the chain on the gearbox secondary shaft by orienting it as shown in the figure.

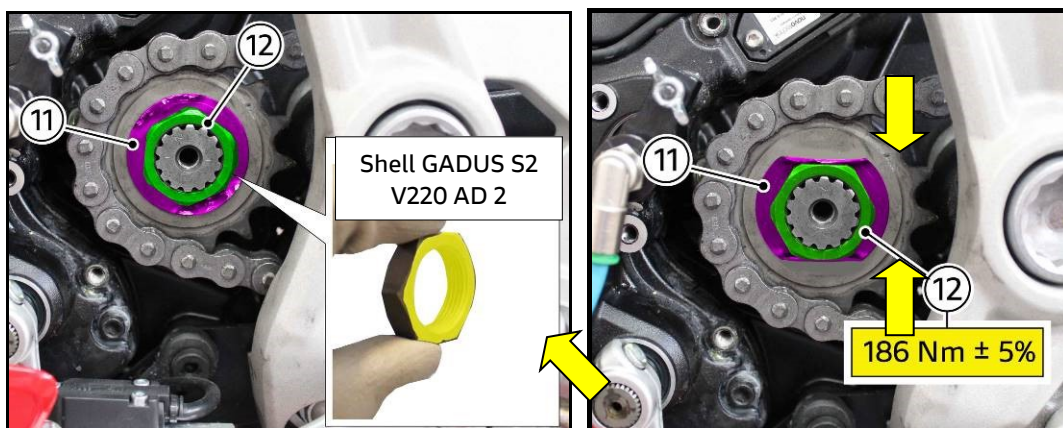




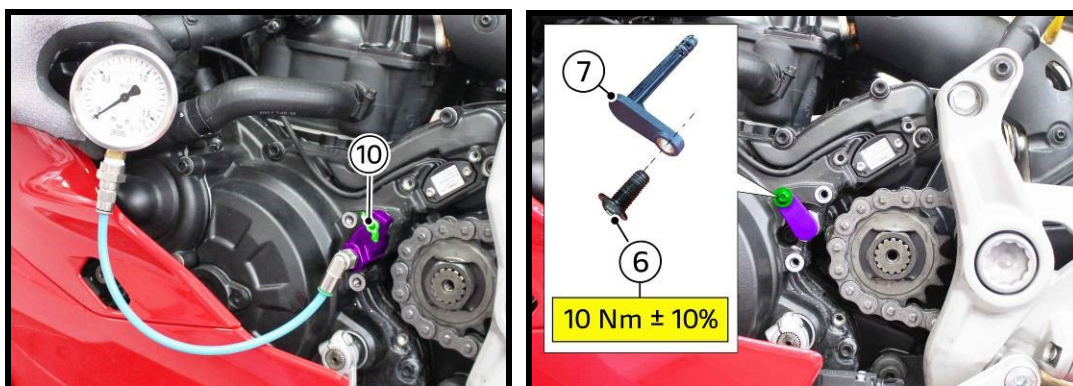
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15. Fit the lock washer (11)
16. Apply Shell GADUS S2 V220 AD 2 grease (or equivalent) on the nut (12) thread and on the nut-washer (11) mating surface
17. Tighten nut (12) to 186 Nm \pm 5%
18. Bend the 2 unused edges (opposite to one another) of the lock washer (11) making them rest against the relevant nut (12) sides.



19. Remove the clutch oil pressure measuring tool part no. 887132695 by loosening key (10)
20. Fit the plug (7) and tighten screw (6) M6x16 to 10 Nm \pm 10% (for models with cable actuated clutch)



NOTE

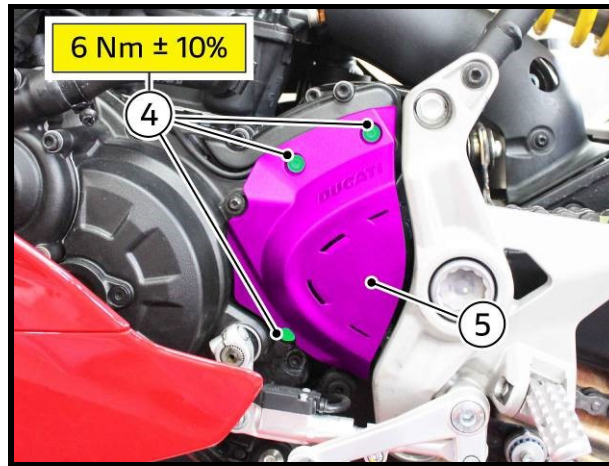
For the models with hydraulic clutch control rod, install the clutch actuator unit with the relevant control rod



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21. Fit the **sprocket cover (5)**, apply Loctite 243 on the thread of the **3 M6x16 screws (4)** and tighten to **6 Nm ± 10%**



22. Remove the rear paddock stand
23. Carry out the tensioning of the final drive chain (see sect. 7: "Chassis – Final drive" of the Workshop Manual)

For information or clarification of this service bulletin, and for assistance with models and versions not listed in this document, please contact your service area manager