

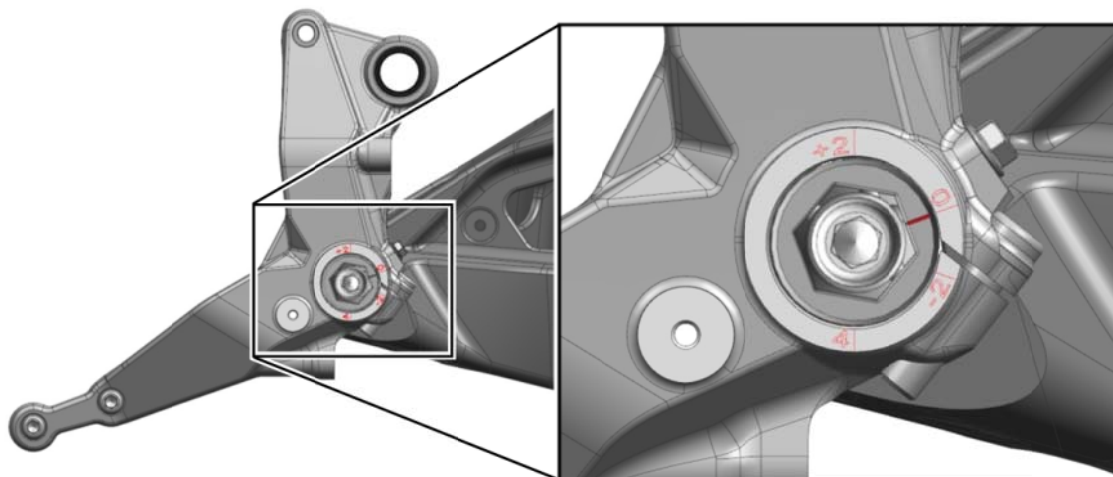
Date: 09/05/2013

Subject: ADJUSTING THE SWINGARM SHAFT HEIGHT

Models: 1199 PANIGALE R (all country versions)

Dear Dealers,

in addition to the technical course provided by DMH on the model 1199 Panigale R we hereby send you the instructions for the correct height adjustment of the swingarm fastening points to the engine.



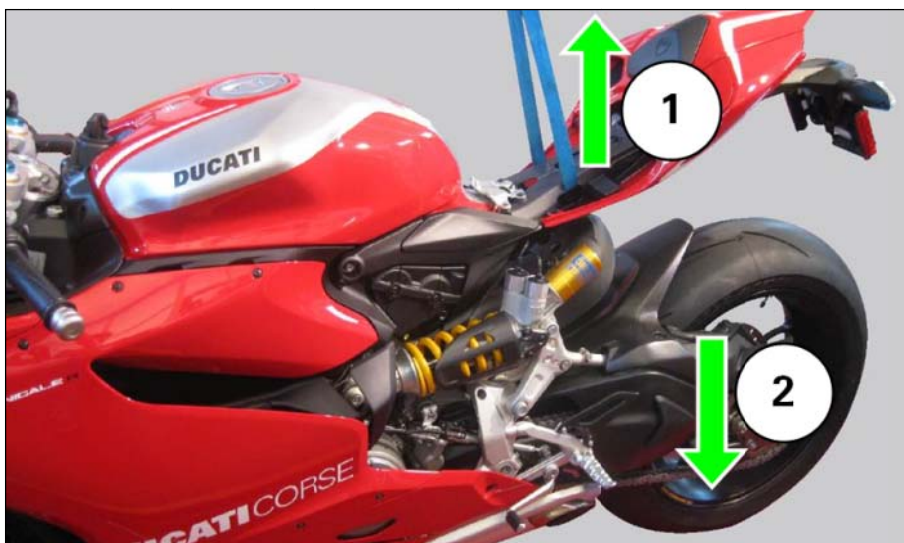
The 1199 Panigale R offers four height adjustment levels of the swingarm shaft: starting from level 0 that corresponds to the standard set-up which the motorcycle is delivered with it is possible to increase by 2 mm or decrease by 2 or 4 mm the swingarm shaft height.

The adjustment procedure must be carried out by thoroughly following the the phases described hereafter:

- 1) Rear side height measurement
- 2) Swingarm shaft height change
- 3) Adjusting the rear side height
- 4) Adjusting the final drive chain tension

1) REAR SIDE HEIGHT MEASUREMENT

- Lift the motorcycle rear side with appropriate equipment until the rear wheel is lifted from the ground.
- Push the rear wheel downwards in order to win the counter-spring force of the rear shock absorber.



- Measure the distance **X** between two fixed reference points: one near the rear wheel shaft and the other on the rear subframe.



2) SWINGARM SHAFT HEIGHT CHANGE

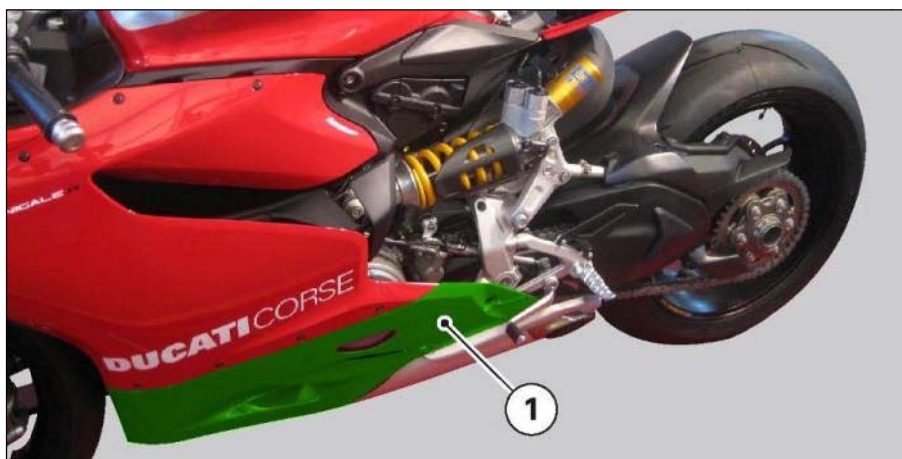


CAUTION

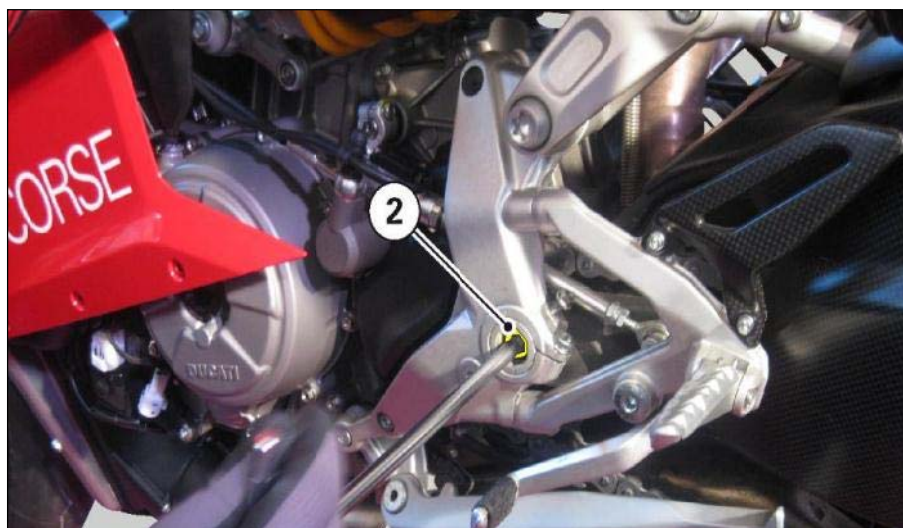
The height adjustment of the swingarm shafts must be performed on both sides of the motorcycle.

The following operations describe the adjusting procedure of the swingarm shaft height on the left side, repeat ALWAYS the same operations also on the right side.

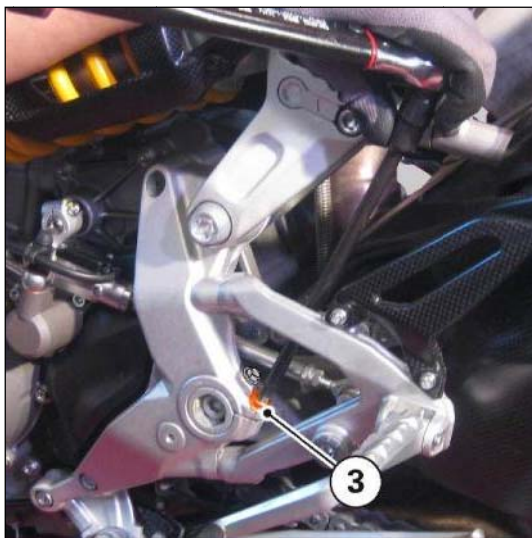
- Remove the **lower side fairing (1)** on the left side.



- Loosen the **central screw (2)** of the swingarm shaft.



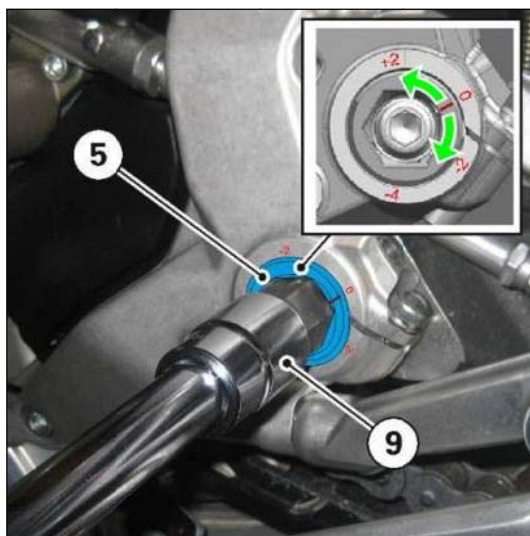
- Loosen the **screw (3)** of the swingarm shaft clamp.



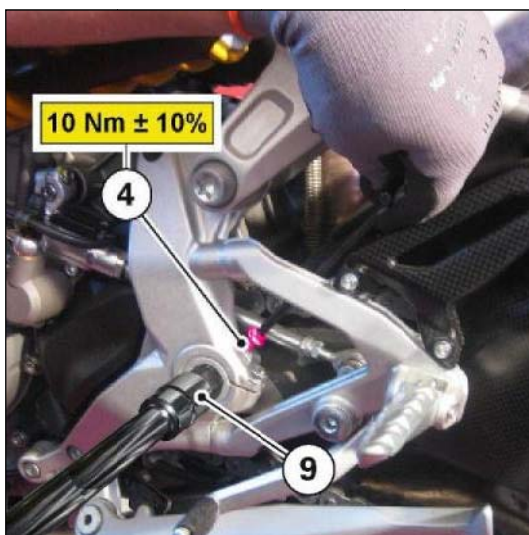
- Remove the anti-rotation **pin (4)** of the swingarm shaft.



- Set the desired value of the swingarm shaft height:
 - **0 → + 2** (the swingarm shaft height is increased by 2 mm with respect to STD);
 - **0 → - 2** (the swingarm shaft height is decreased by 2 mm with respect to STD);
 - **0 → - 4** (the swingarm shaft height is decreased by 4 mm with respect to STD);
 by turning the **shaft (5)** with a **19 mm hexagon socket (9)** until the desired reference value is reached.



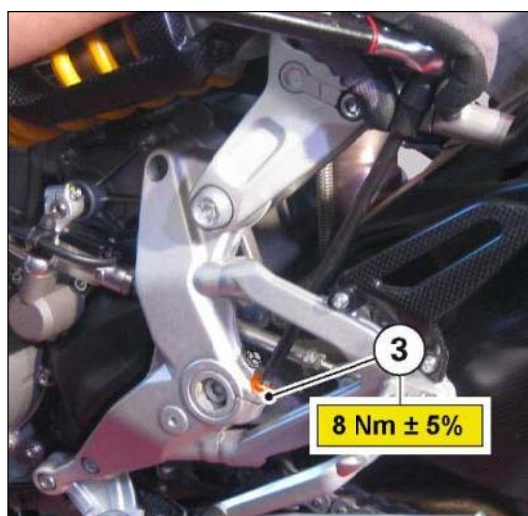
- By still keeping the **19 mm hexagon socket (9)** inserted to avoid the shaft rotation, start the anti-rotation **spin (4)** of the swingarm shaft and tighten it to a torque of **10 Nm ± 10%**.



- Tighten the **central screw (2)** of the swingarm shaft to a torque of **80 Nm ± 5%**.



- Tighten the **screw (3)** of the swingarm shaft clamp to a torque of **8 Nm ± 5%**.

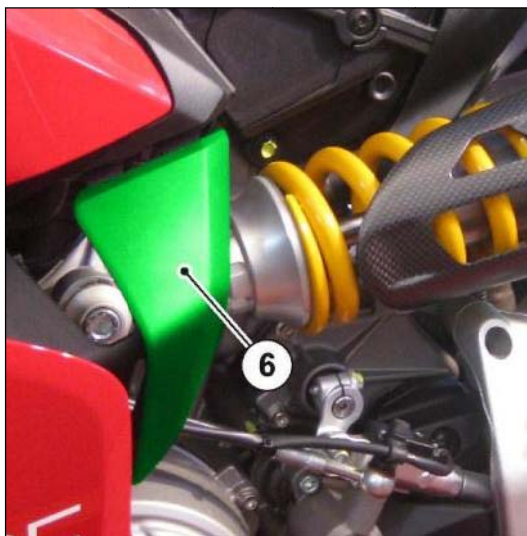


- Reassemble the **lower side fairing (1)** on the left side.

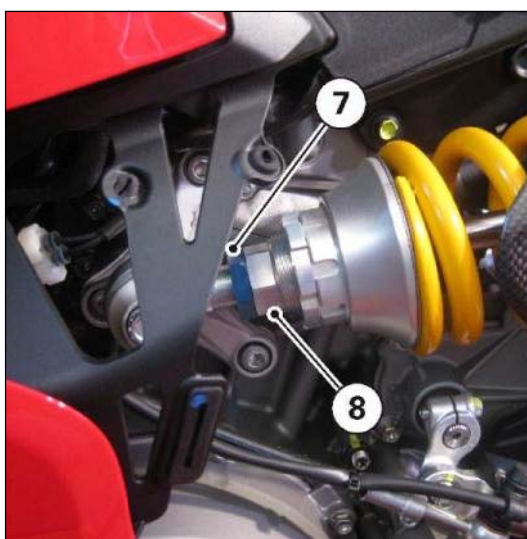
3) **ADJUSTING THE REAR SIDE HEIGHT**

The rear height change of the motorcycle is performed by changing the shock absorber centre distance.

- Remove **cover (6)** of the electric system support on the left side.



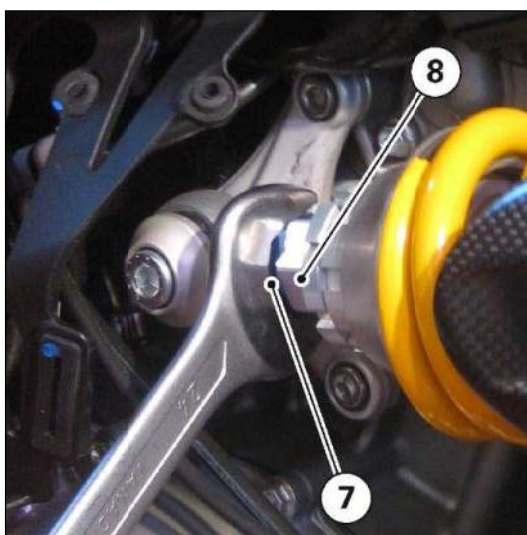
- The shock absorber centre distance changes by loosening the **light blue lock nut (7)** and by working on the **grey nut (8)** of the shock absorber itself: through tightening of the latter the shock absorber centre distance will be lengthened and the rear height will be therefore increased, on the contrary by loosening such nut, the shock absorber centre distance will be decreased and so will the rear height.



- Screw or loosen the **grey nut (8)** until distance **X** is restored which was previously measured between the two fixed reference points: one near the rear wheel shaft and the other on the rear subframe.



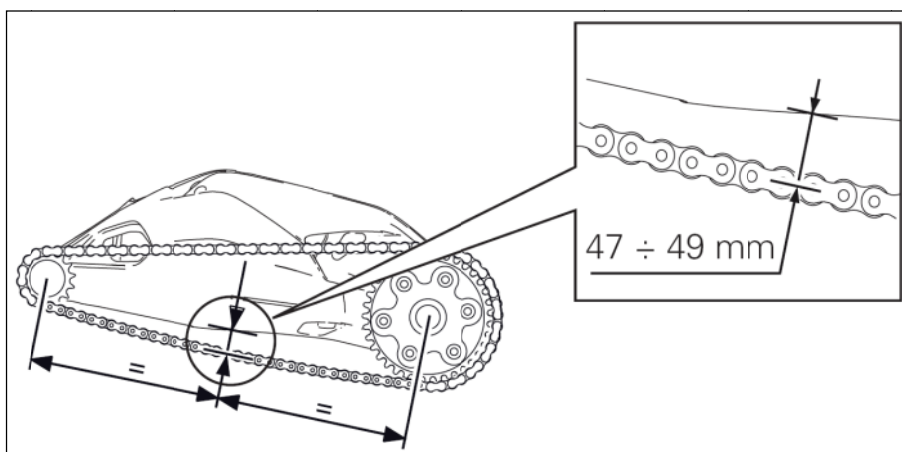
- Once the correct height of the rear side is restored, tighten the **lock nut (7)** against **nut (8)** to avoid that the latter changes its position during the operation.



- Reassemble **cover (6)** of the electric system support on the left side.

4) ADJUSTING THE FINAL DRIVE CHAIN TENSION

- Set the vehicle on the side stand.
- The adjustment must be performed without rider and any side panniers.
- Make the rear wheel turn until you find the position where chain is tightest.
- Place ruler at mid-way of chain lower section, push chain downwards and tension up until distance between the aluminium section of the swingarm and chain pin centre is between 47 mm and 49 mm.



IMPORTANT

Should the drive chain be too tensioned or too loosened, adjust it so that the measurement falls again within the indicated values. An incorrectly tensioned chain will lead to accelerated wear of the transmission components.

- Make sure to tighten the two eccentric securing screws on the swingarm to a torque of **25 Nm ± 5%** through sequence 1-2-1.

Best Regards,

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Service Technical Specialist

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Service Aftersales Manager