



New routing of rear speed sensor cable 2018 Panigale V4 (all model versions) Tips & Tricks Bulletin SRV-TTB-18-005

Date: July 26, 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 tests and analysis of feedback from the field have determined an opportunity for product improvement and we provided a new routing of the rear speed sensor cable for the above-specified model. The new routing will prevent any interference of the rear speed sensor cable with the chain sliding shoe.

Application

All motorcycles manufactured starting from 02/07/2018 will feature the new routing of the rear speed sensor cable. Additionally, the 4 small self-locking ties, used starting from 02/07/2018 for the new routing of the rear speed sensor cable, will be later superseded by fast points (cable guides), providing a more convenient solution in case of cable removal/reassembly.

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

Only in cases where required, the parts to perform this improvement must be ordered Individually by VIN.

Warranty Reimbursement

To request reimbursement of both labor and parts necessary to carry out the operations, fill in a warranty claim of the NORM type.



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Fill in the warranty claim as follows:

1) Intervention in **Procedure A:**

No relevant fault codes are detected during the Global Scan and no abrasion is noted on the cable - Installation of 4 small self-locking ties for joining rear speed sensor cable to rear brake caliper fluid hose.

	Operation Code	Labor Time	Spare Parts
Operation Procedure A	3-999-080		Part no.74140381A: Self-locking ties

2) Intervention in **Procedure B:**

Relevant fault codes are found during the Global Scan, and/or abrasion is found on the sensor cable - Replacing the rear speed sensor cable and installation of 11 small self-locking ties for joining rear speed sensor cable to rear brake caliper fluid hose.

	Operation Code	Labor Time	Spare Parts
Operation Procedure B	3-999-032		Part no.55212111B: Rear speed sensor cable Part no.4601E651A: Heat reflective sheath Part no.74140381A: Self-locking ties

Reimbursed labor includes the following:

- A. Vehicle acceptance
- B. Performance of a Global Scan
- C. Performance of either Procedure A or B
- D. Light cleaning of the vehicle



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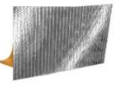
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Parts List

The following components are necessary if required to perform the improvement:

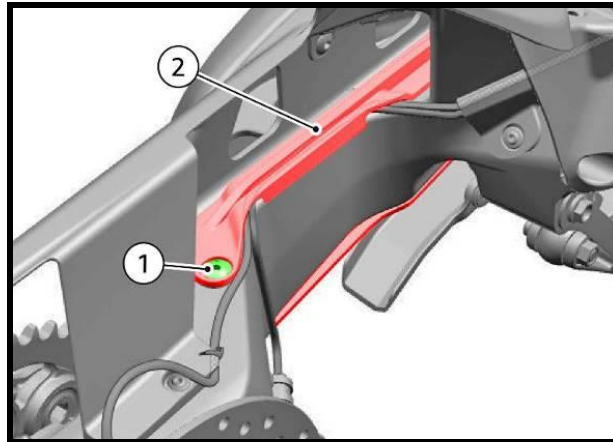
Part no.	Description	Qty	Image
55212111B	Rear Speed Sensor	1	
4601E651A	Heat Reflective Sheath	1	
74140381A	Self-Locking Ties	Up to 11	



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Service Solution

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. Remove the *M6x15 rear screw (1)* retaining the *upper chain sliding shoe (2)* to swingarm



4. Connect the DDS 2.0 diagnosis instrument to the motorbike and run a Global Scan:

If NO error C1031: Rear wheel speed sensor [Open circuit or short-circuit to ground / positive] or any other errors related to the same malfunction of the rear wheel speed sensor are reported in current or stored status - Follow **Procedure A**

If error C1031: Rear wheel speed sensor [Open circuit or short-circuit to ground / positive] in current or stored status or any other errors related to the same malfunction of the rear wheel speed sensor are reported - Follow **Procedure B**



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Procedure A

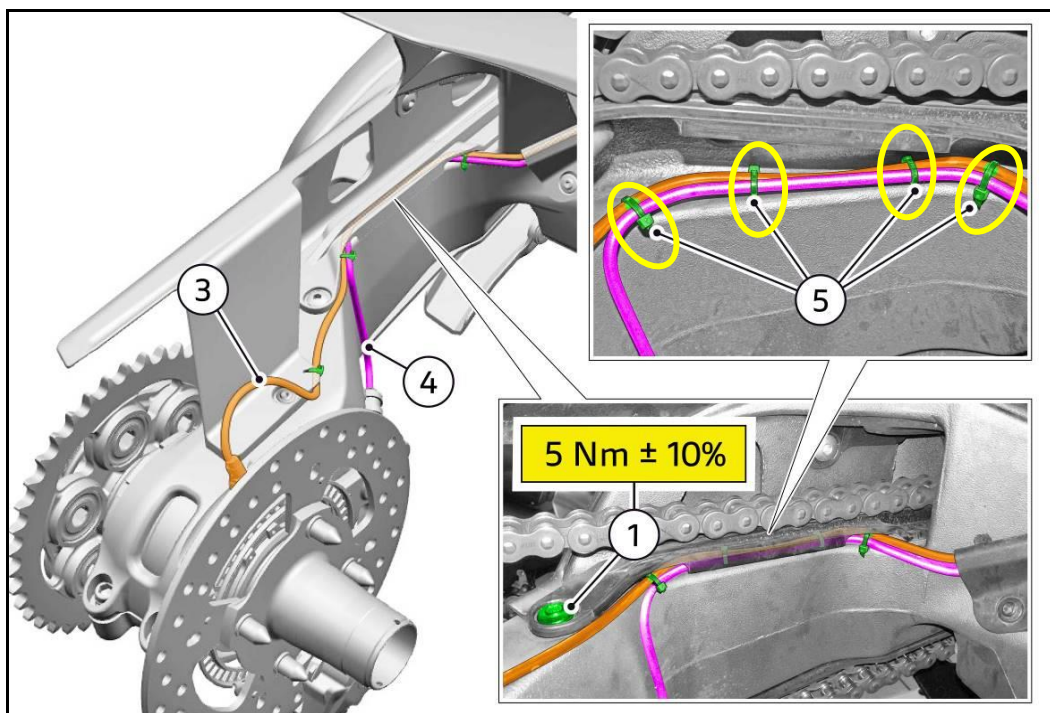
- A 1. Tie *rear speed sensor cable (3)* to *rear brake caliper fluid hose (4)* using *4 small self-locking ties (5)* and positioning them as shown in the figure.



WARNING

The closing devices of the 2 central ties must be aiming toward the inside of the swingarm, while the closing devices of the other 2 ties must be aiming outwards

- A 2. Tighten the *M6x15 rear screw (1)* retaining the upper chain sliding shoe to the swingarm to **5 Nm $\pm$ 10%**.



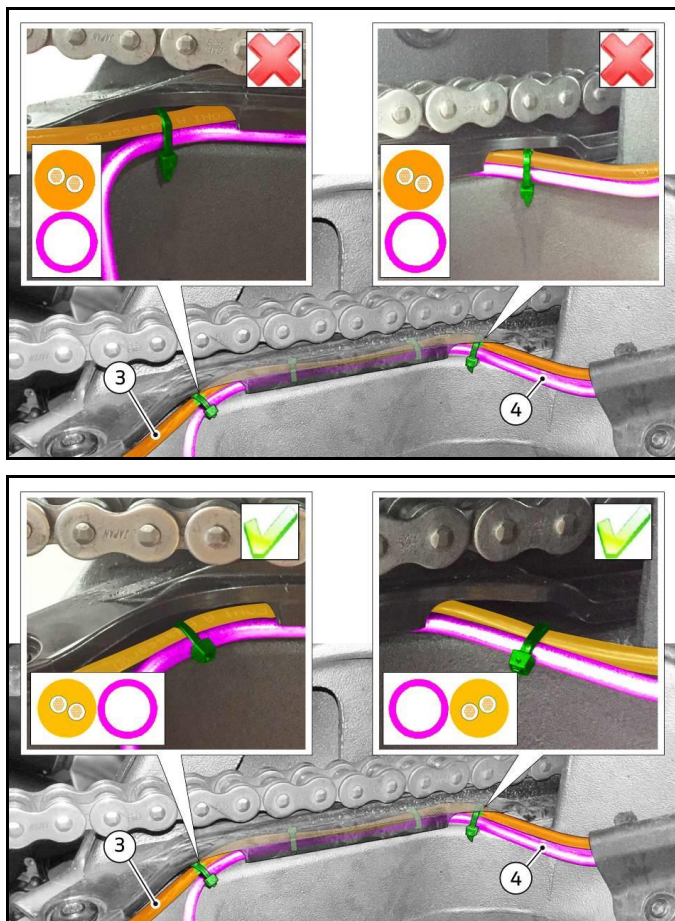


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WARNING

The *rear speed sensor cable (3)* and *rear brake caliper fluid hose (4)* must NOT be overlapping as shown in the upper figure.



A 3. Refit the rear wheel (See Sec. 7: "Chassis - Rear wheel" of the Workshop Manual)

A 4. Remove the rear paddock stand

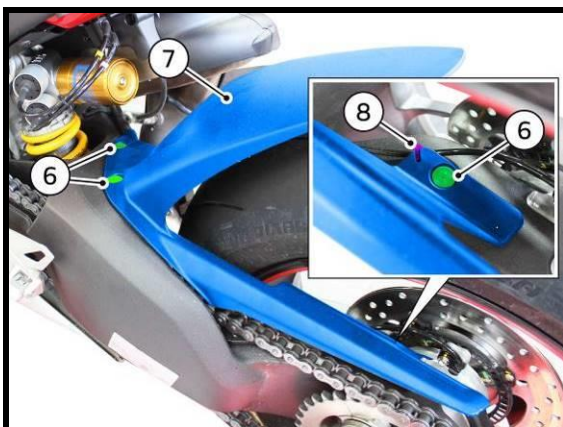


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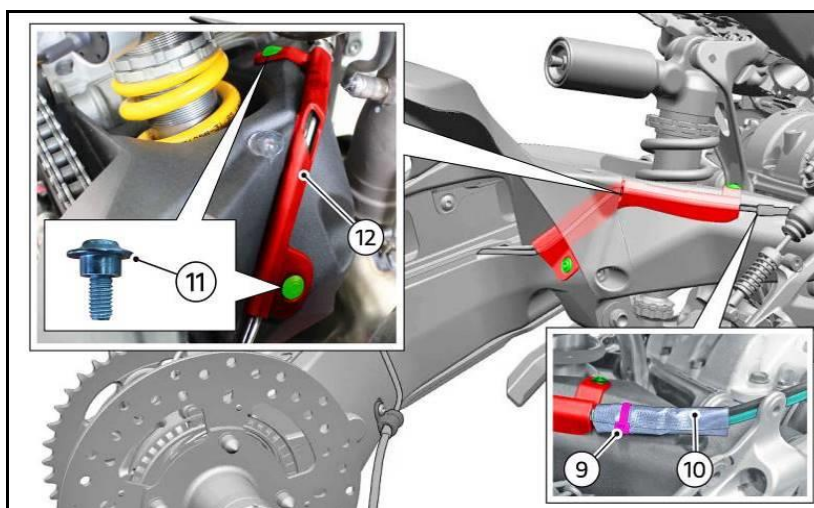
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Procedure B

- B 1. Remove the LH side fairing (see Sec. 5: "Fairing installation – Fairing" of the Workshop Manual)
- B 2. Remove the **4 M5x9 screws (6)** with collar securing the rear **mudguard (7)** to the swingarm
- B 3. Remove the small **self-locking tie (8)** securing rear speed sensor cable to mudguard



- B 4. Remove the small self-locking **tie (9)** and the **heat reflective sheath (10)**
- B 5. Remove the **2 M5x9 screws (11)** securing **hose grommet (12)** to swinging arm, then slide it out



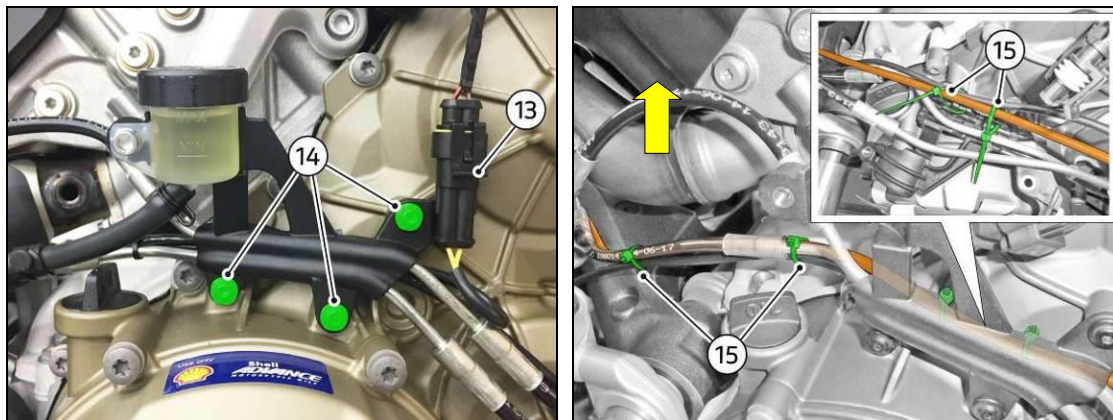


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B 6. Slide out the *rear stop light connector (13)* from the rear brake fluid reservoir support.

B 7. Remove the *3 M5x12 screws (14)* securing the rear brake fluid reservoir support

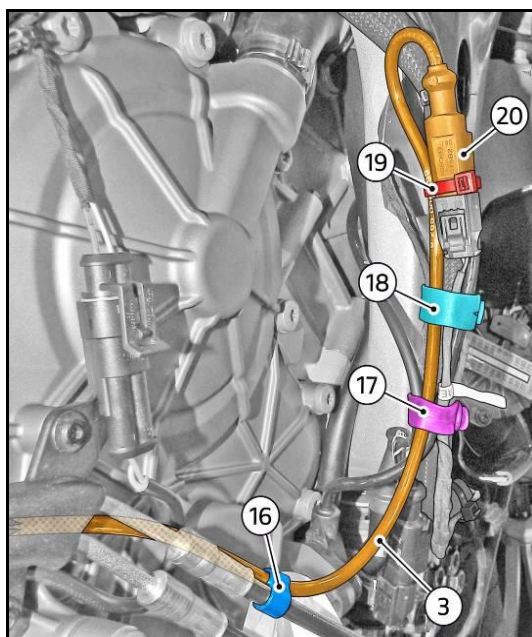
B 8. Remove the *4 self-locking ties (15)*



B 9. Release the *rear speed sensor cable (3)* from *fast point (16)*

B 10. Remove the *button ties L.39mm (17)* and *L.62mm (18)*

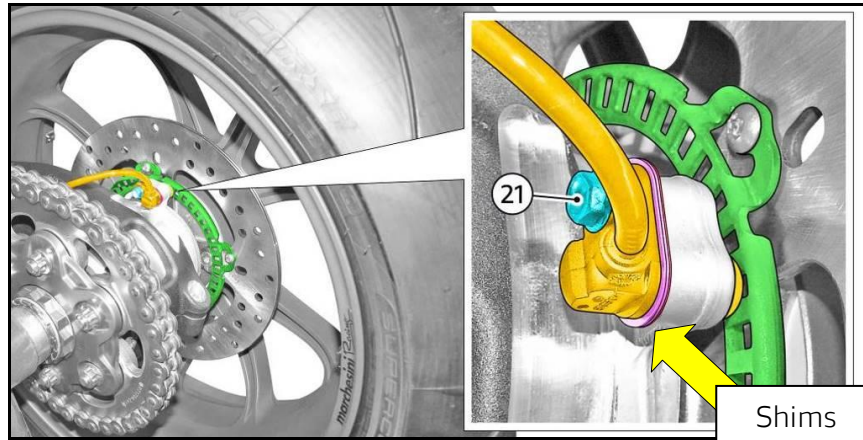
B 11. Remove the large self-locking *tie (19)* and detach *connector (20)* of rear speed sensor cable



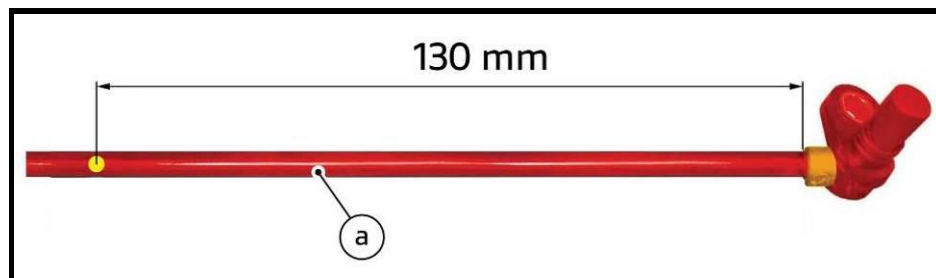


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- B 12. Remove the **M6x16 screw (21)** retaining the rear speed sensor to the phonic wheel with the relevant shims



- B 13. Take the new **rear speed sensor cable (a)** part no. 55212111B and use a felt pen to mark at 130 mm from cable end at the sensor head, as shown in the figure.

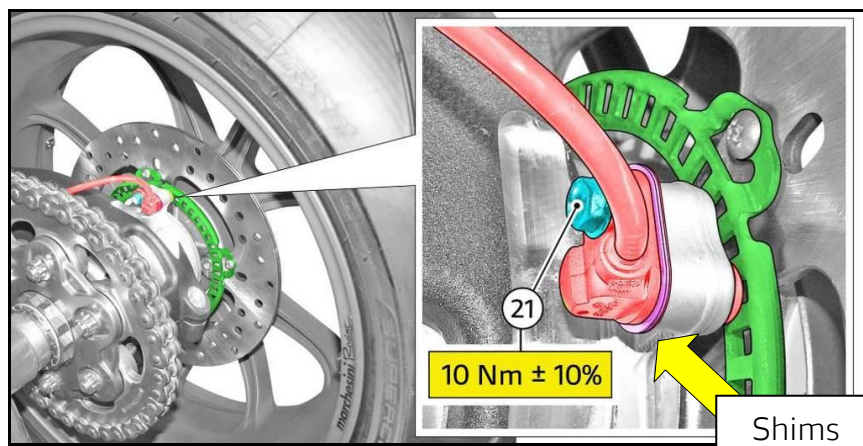


- B 14. Fasten the rear speed sensor tightening **M6x16 screw (21)** to **10 Nm $\pm$ 10%**



WARNING

Set the gap between the **Rear Wheel Speed Sensor** and **phonic wheel** from **1.3 to 1.9 mm**, using 0.2 mm and 0.5 mm thick shims as needed





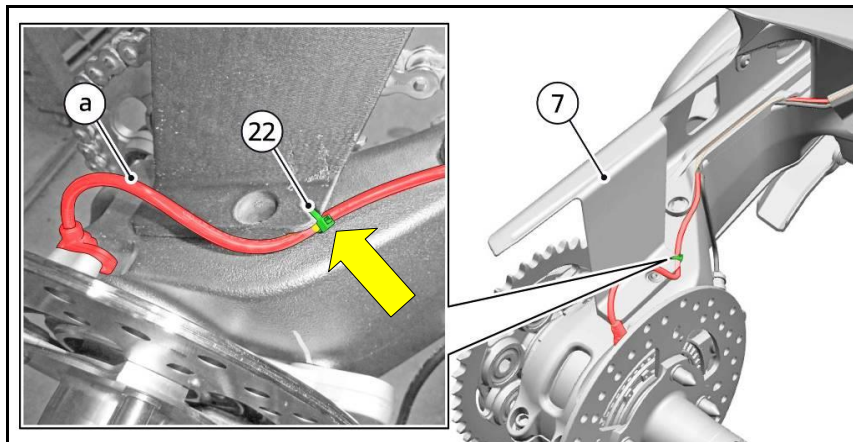
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- B 15. Use a small *self-locking tie* (22), fasten *the rear speed sensor cable (a)* to the *rear mudguard (7)* at the mark you previously made with the felt pen, as shown



NOTE

Slide the *speed sensor cable (a)* in the suitable recess on the *mudguard (7)*



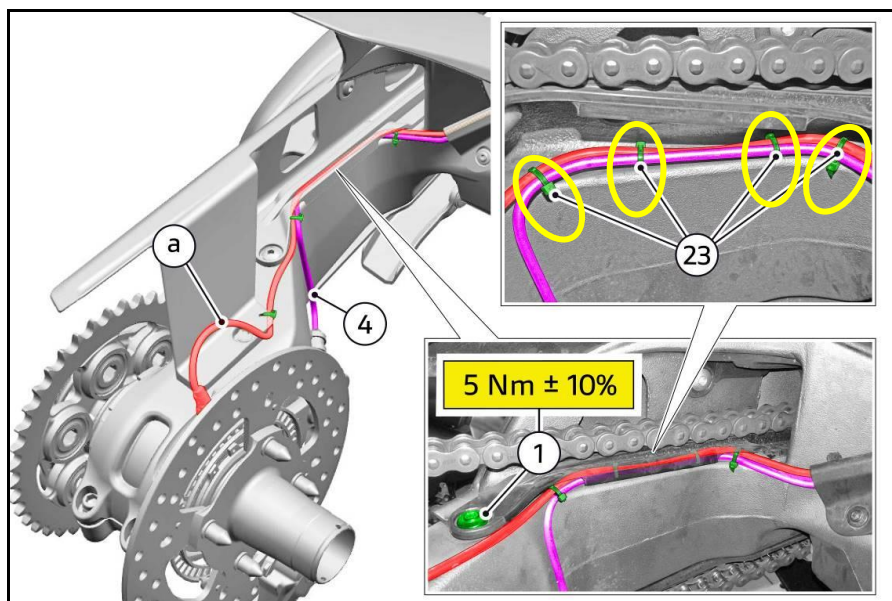
- B 16. Lay the *rear speed sensor cable (a)* and *rear brake caliper fluid hose (4)* along the swingarm and join them using *4 small self-locking ties (23)* as shown



WARNING

The closing devices of the 2 central ties must be aiming toward the inside of the swingarm, while the closing devices of the other 2 ties must be aiming outwards

- B 17. Tighten the *M6x15 rear screw (1)* retaining the upper chain sliding shoe to the swingarm to **5 Nm $\pm$ 10%**.



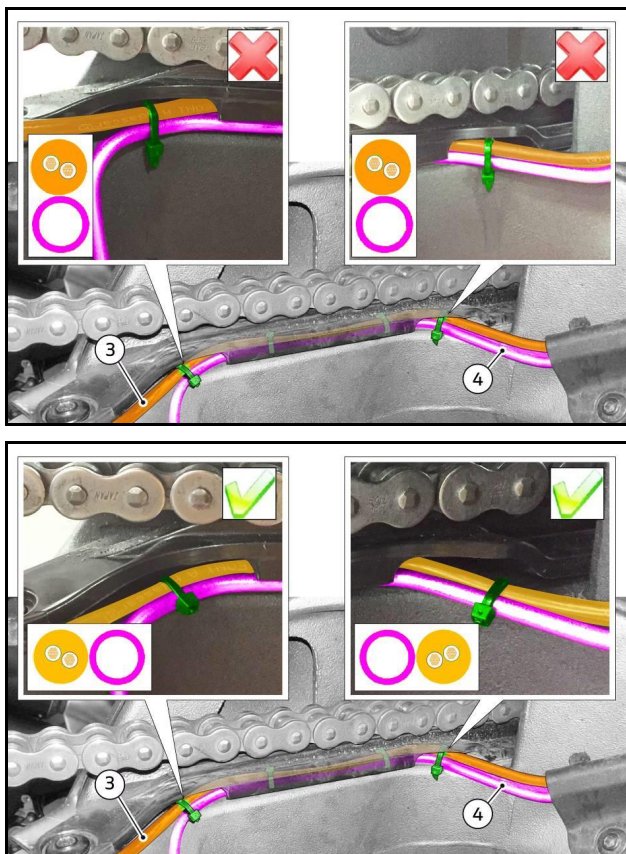


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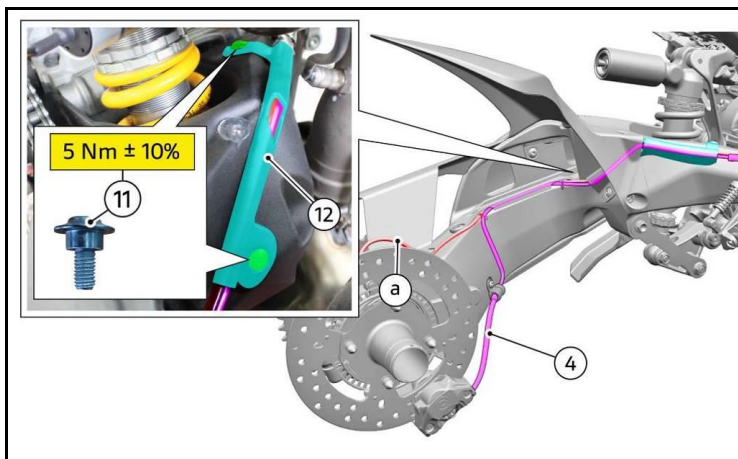


WARNING

The *rear speed sensor cable (3)* and *rear brake caliper fluid hose (4)* must NOT be overlapping as shown in the upper figure.



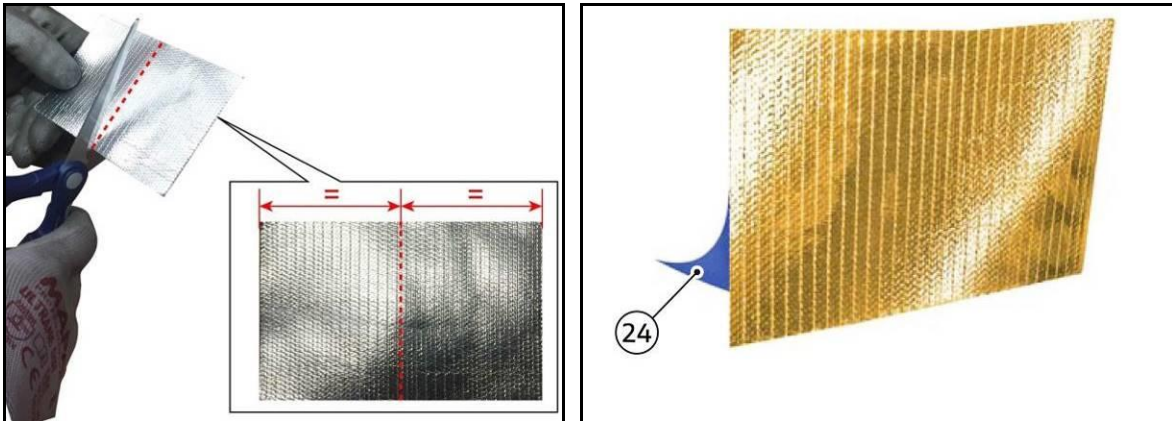
- B 18.** Fit the *hose grommet (12)* to the swinging arm, positioning the *rear speed sensor cable (a)* and the *rear brake caliper fluid hose (4)* inside it, as shown. Then tighten the 2 M5x9 screws (11) to **5 Nm $\pm$ 10%**



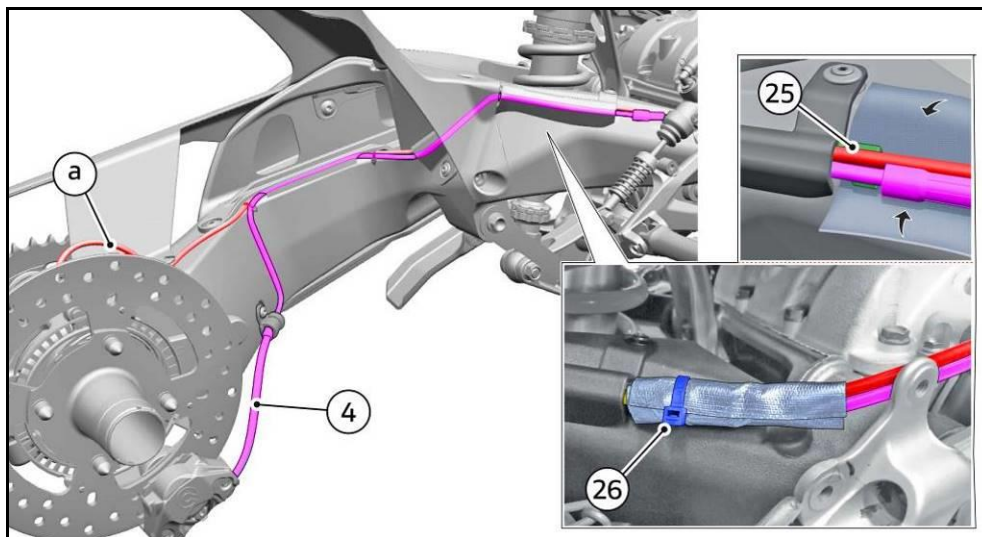


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- B 19.** Using a pair of scissors, cut the new heat reflective sheath part no. 4601E651A in two identical parts along the longitudinal line, as shown in the figure. Use only one of the two pieces of heat reflective sheath
- B 20.** Remove the *protective film (24)* from the back of the heat reflective sheath



- B 21.** Apply the heat reflective sheath aiming it as shown, wrapping the *rear brake caliper hose (4)* and the *rear speed sensor cable (a)* and the *hose grommet tooth (25)*
- B 22.** Apply a new small *self-locking tie (26)* in the position shown in the figure

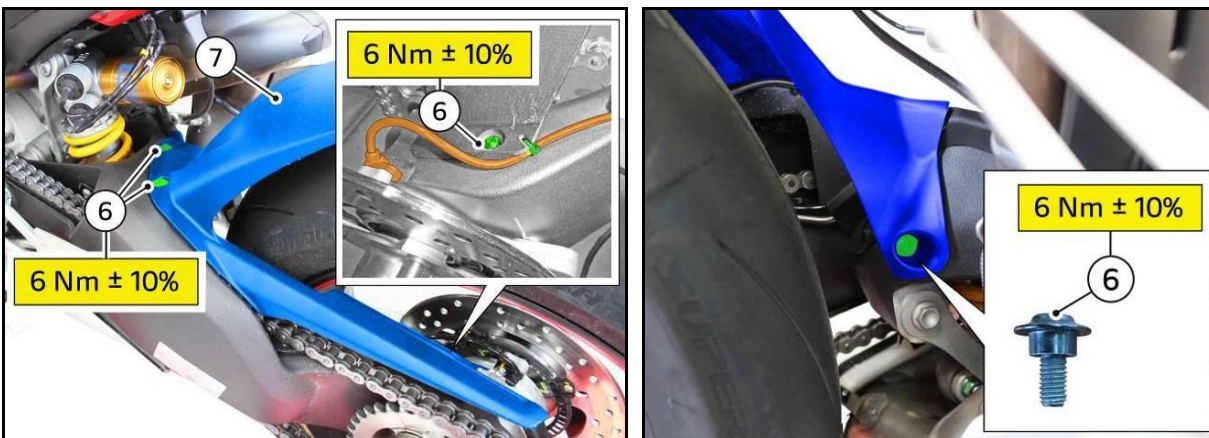




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B 23. Install the rear *mudguard* (7) on the swingarm by tightening the 4 *M5x9 screws* (6) with collar to **6 Nm $\pm$ 10%**

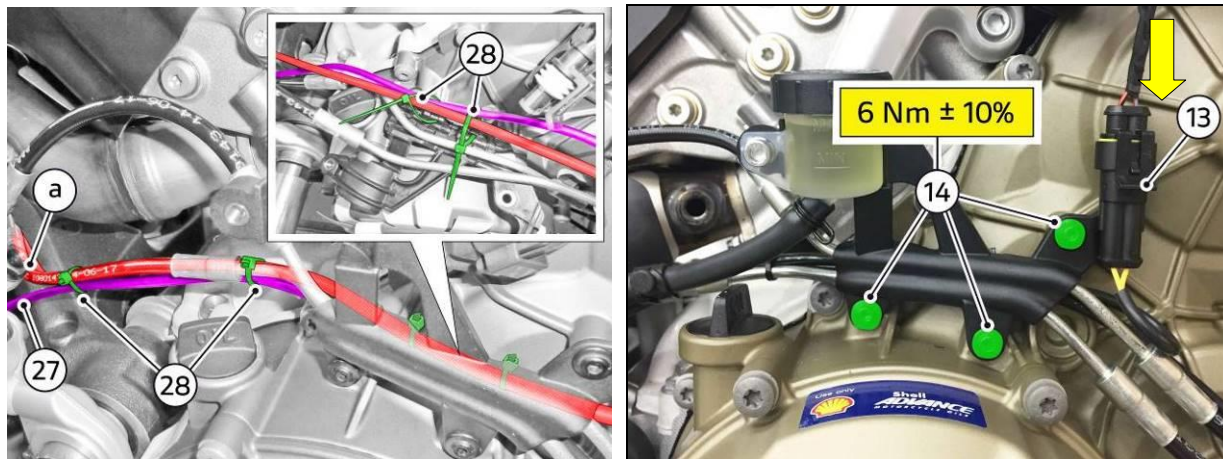


B 24. Route the *rear speed sensor cable* (a) along the clutch cover as shown, then:

- fasten the *rear speed sensor cable* (a) and the *rear stop light cable* (27) to rear brake fluid reservoir support using 2 new small self-locking *ties* (28)
- fasten the *rear speed sensor cable* (a) to the *rear stop light cable* (27) using 2 new small *self-locking ties* (28)

B 25. Fasten the rear brake fluid reservoir support to clutch cover, tightening the 3 *M5x12 screws* (14) to **6 Nm $\pm$ 10%**

B 26. Fasten the *rear stop light connector* (13) to the rear brake fluid reservoir support



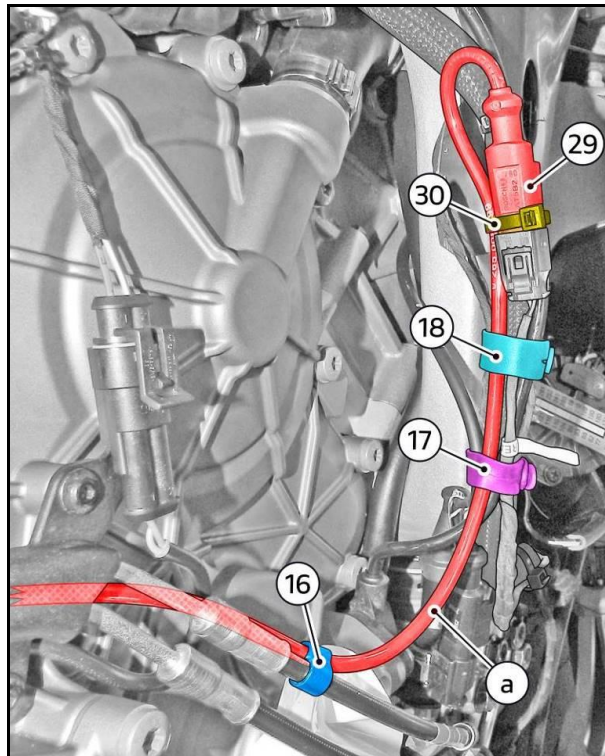


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B 27. Attach the *connector (29)* to the rear speed sensor wiring branch and fasten it using a new large self-locking *tie (30)*, as shown

B 28. Use the *button tie L.62mm (18)* as shown to secure:

- A. pick-up cable
- B. oil pressure switch wiring branch
- C. oil pressure switch wiring branch excess
- D. rear speed sensor cable (a)
- E. rear speed sensor wiring branch



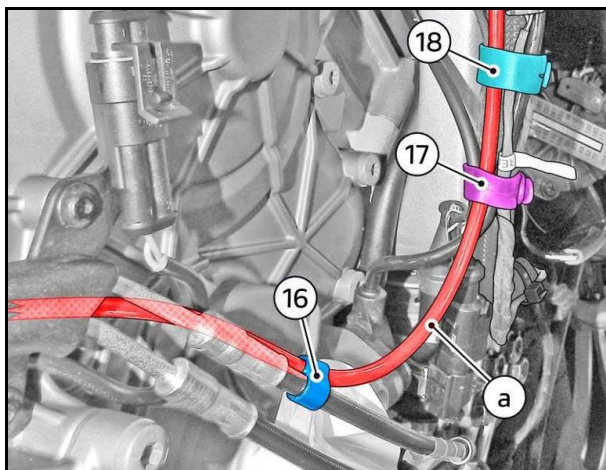
B 29. Use the *button tie L.39mm (17)* as shown to secure:

- A. Pick-up cable
- B. Front speed sensor cable
- C. Oil pressure switch wiring branch
- D. Oil pressure switch wiring branch excess
- E. Rear speed sensor cable (a)
- F. Rear speed sensor wiring branch



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B 30. Join the *rear speed sensor cable (a)* to the hose between rear brake master cylinder/ABS control unit using the *fast point (16)*, as shown



B 31. Install the LH side fairing (see Sec. 5: "Fairing installation – Fairing" of the Workshop Manual)

B 32. Refit the rear wheel (See Sec. 7: "Chassis - Rear wheel" of the Workshop Manual)

B 33. Remove the rear paddock stand

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