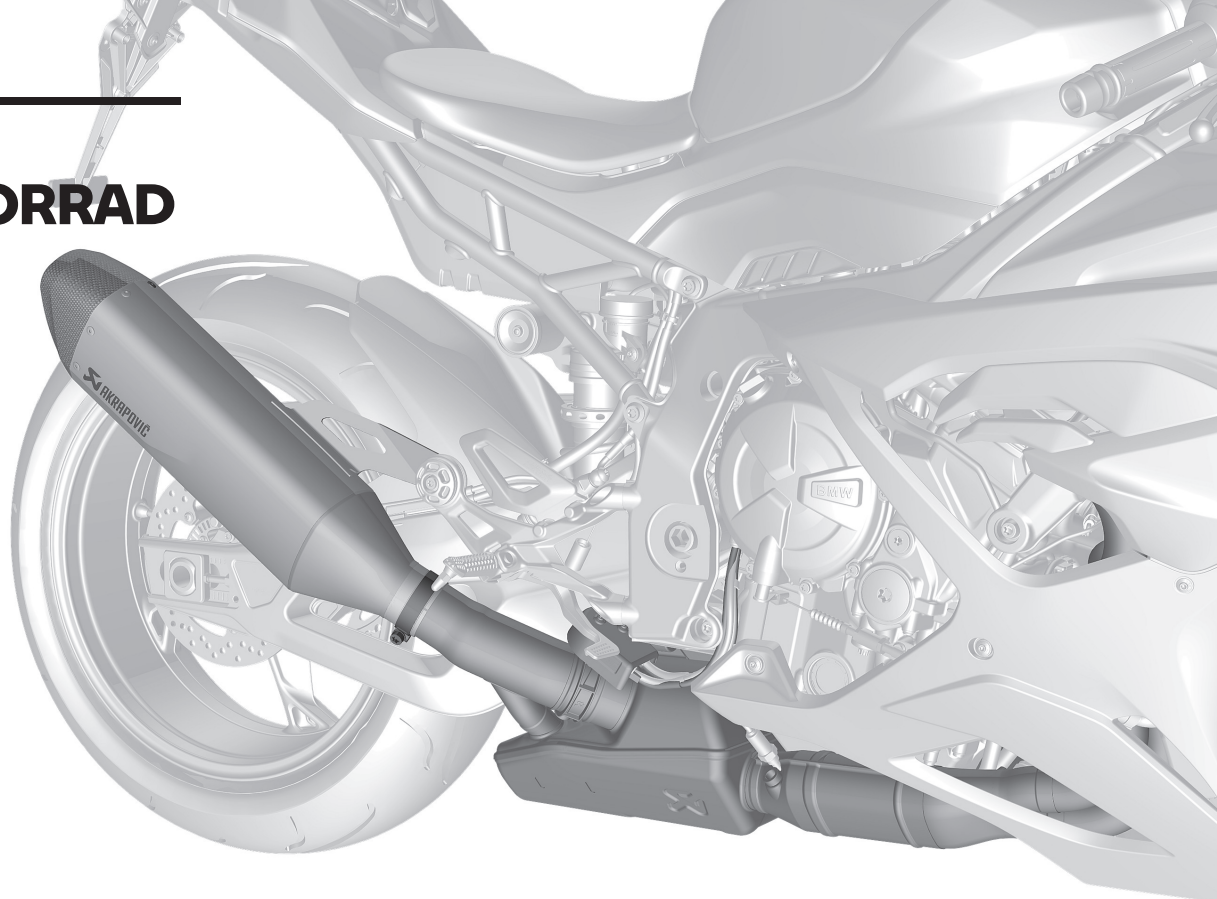




**BMW
MOTORRAD**



Installation instructions

M TITAN EXHAUST SYSTEM

MAKE LIFE A RIDE

BEFORE COMMENCING WORK, YOU MUST READ THESE INSTALLATION INSTRUCTIONS THROUGH CAREFULLY AND MAKE SURE YOU UNDERSTAND THEM FULLY.

We congratulate you on your choice of optional accessories from BMW Motorrad that will enable you to customise your motorcycle in accordance with your personal preferences.

Safety is invariably an essential prerequisite for extracting full benefit and enjoyment from new accessories. Some work calls for special tools and possibly a thorough knowledge of motorcycle technology. If you are in doubt consult a specialist workshop, preferably your authorised BMW Motorrad dealer.

Since we provide you with a multitude of accessories and optional equipment, we cannot cover all equipment specifications in these installation instructions. Therefore we restrict ourselves to the basic version of the corresponding model. The removal and installation of other possibly installed accessories is described in the corresponding installation instructions. Consult your authorised BMW Motorrad dealer if you no longer have access to the sets of instructions you need.

If you have questions concerning your motorcycle or any of the accessories from our range, your authorised BMW Motorrad dealer will gladly provide advice and assistance.

We at BMW Motorrad hope you will enjoy riding your BMW and that all your journeys will be pleasant and safe.

THE SYMBOLS USED TO DRAW ATTENTION TO PRECAUTIONARY STATEMENTS IN THIS MANUAL ARE AS FOLLOWS:

 **CAUTION**

Low-risk hazard. Non-avoidance can lead to slight or moderate injury.

 **DANGER**

High-risk hazard. Non-avoidance leads to fatal or severe injury.

 **NOTICE**

Specific instructions on how to operate, control, adjust or look after items of equipment on the motorcycle.

- ▶ Start of the main activity
- ▷ Start of the secondary activity
- Instruction

 **WARNING**

Medium-risk hazard. Non-avoidance can lead to fatal or severe injury.

 **ATTENTION**

Special notes and precautionary measures. Non-compliance can lead to damage to the vehicle or accessory and, consequently, to voiding of the warranty.

 **Tightening torque**

Screws, bolts and nuts are tightened in accordance with the applicable DIN/ISO standards. Tightening torques that deviate from the standards are stated. Non-compliance can result in damage to the vehicle or accessories or can endanger the driver.

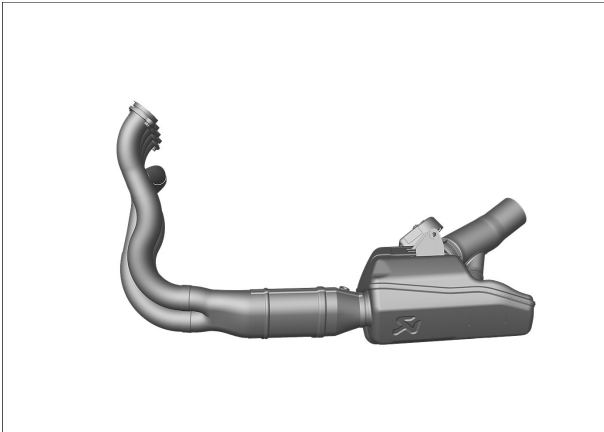
- ◀ End of the main activity
- ◁ End of the secondary activity
- ◇ End of validity designation CS (construction status), OE (optional extra) or OA (optional accessory)

All rights reserved.

M Titan exhaust system

Requisite tools

- Torx wrench set
- Open-ended wrench set
- Diagonal cutting pliers
- Torque wrench



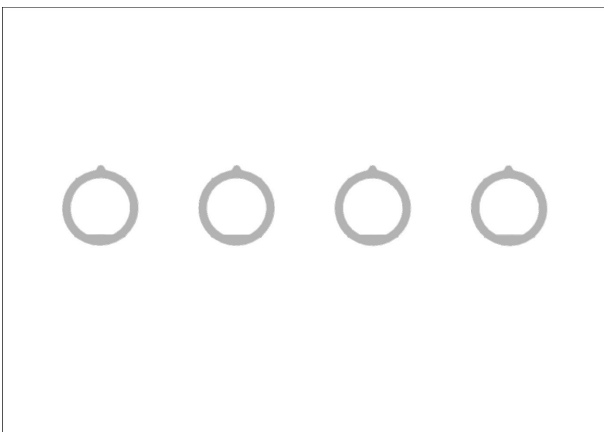
Scope of installation

- Sport exhaust system



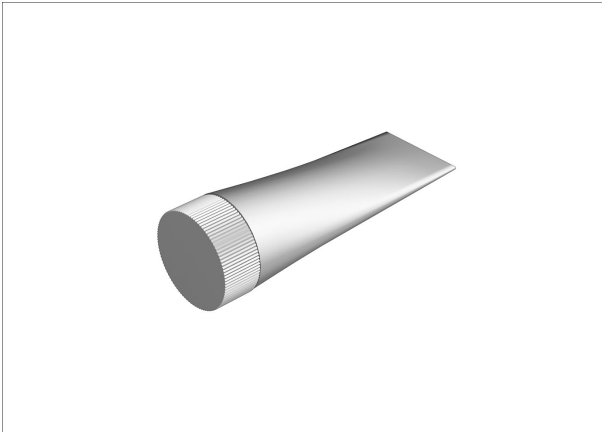
Additionally required:

- Sports silencer
- Clamping collar




Also required

- Exhaust manifold gasket 4x



Also required

 Lubricant	
Optimoly TA	18 21 9 062 599

General instructions

ATTENTION

Vehicle not securely propped

Risk of damage to parts if vehicle topples

- Prop the vehicle securely.

CAUTION

Hot engine and/or hot exhaust system

Risk of burn injury

- Allow engine and exhaust system to cool before starting work.

WARNING

Children and pets in the working area

Injury to persons

- Keep children and pets away from the working area.

CAUTION

Wearing jewellery during work

Risk of injury by snagging or electrical short circuit

- Remove all items of personal jewellery (rings, chains, wristwatch, etc.) before starting work.

NOTICE

Once the retrofit kit has been installed by the workshop, these installation instructions must be handed over to the customer.

Make sure that these installation instructions accompany the retrofit kit when it is passed on to a third party.

77 11 011 Installing sport exhaust system

⚠ CAUTION

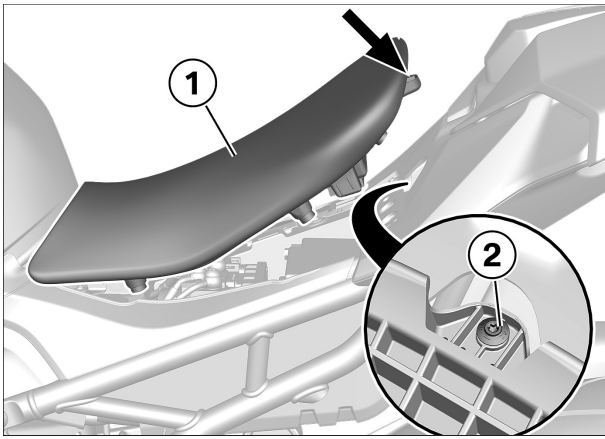
Hot exhaust system

Risk of burn injury

- Do not touch a hot exhaust system.

Additional work: 46 52 510 Mounting and dismounting the rear-wheel stand with special tools (for motorbikes without a centre stand)

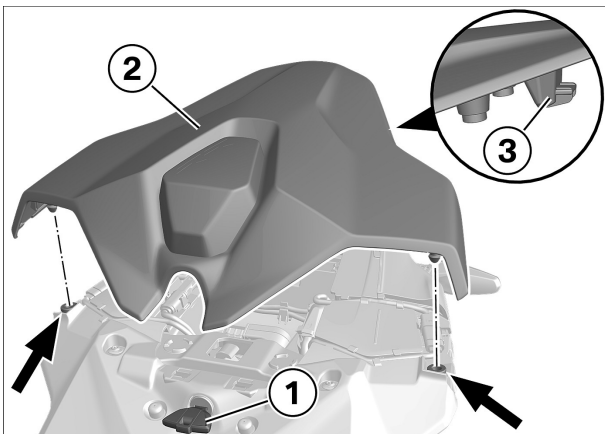
1



► Removing rider's seat

- Press rider's seat (1) on seat cushion surface (arrow) to front.
- Slacken screw (2).
- Lift rider's seat (1) at rear and remove.

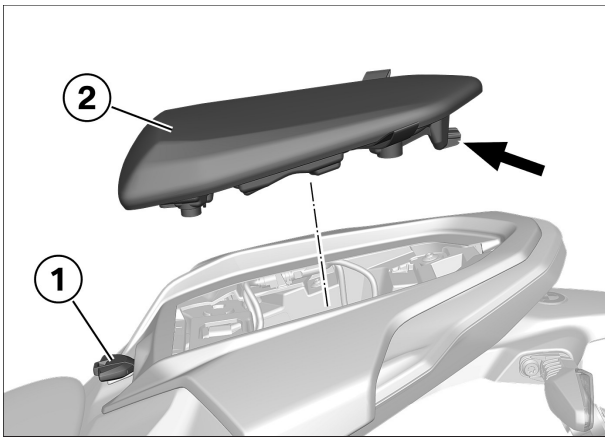
2



► Removing tail-hump cover

- Use vehicle key (1) to unlock lock for tail-hump cover (2).
- Pull tail-hump cover (2) up and loosen from grommets (arrows).
- Remove tail-hump cover (2) by detaching locator (3).

3

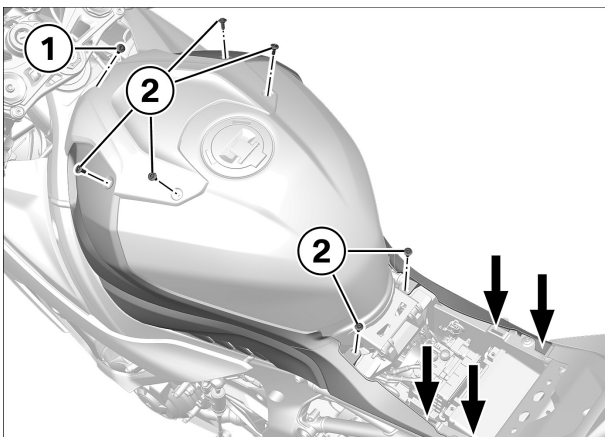


– with two-up riding package^{OE} (0413)

► **Removing passenger seat**

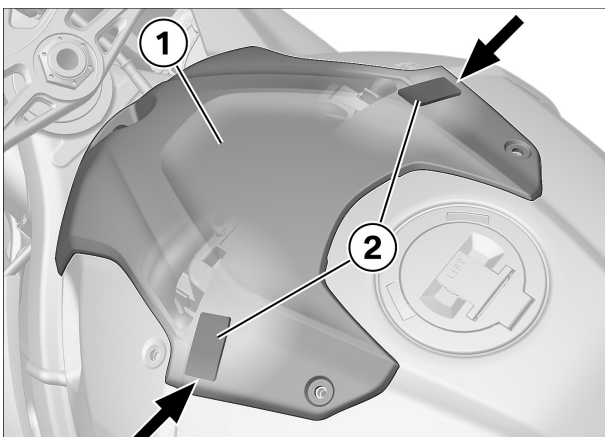
- Use vehicle key **(1)** to unlock lock for passenger seat **(2)**.
- Remove passenger seat **(2)** by unhooking locator **(arrow)**.◇

4

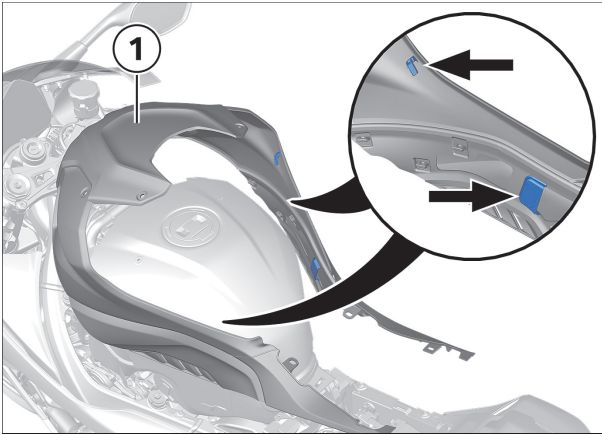


► **Removing complete fuel-tank cover**

- Remove bolt **(1)**.
- Remove screws **(2)**.
- Disengage the locators **(arrows)**.

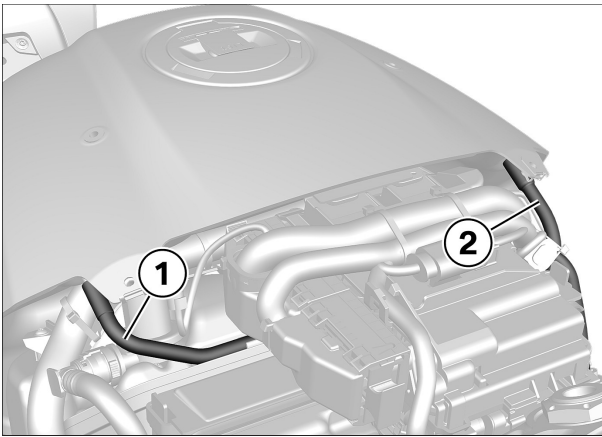


- Lift centre fuel-tank cover **(1)** at the edges **(arrows)** and release hook and loop tape **(2)**.



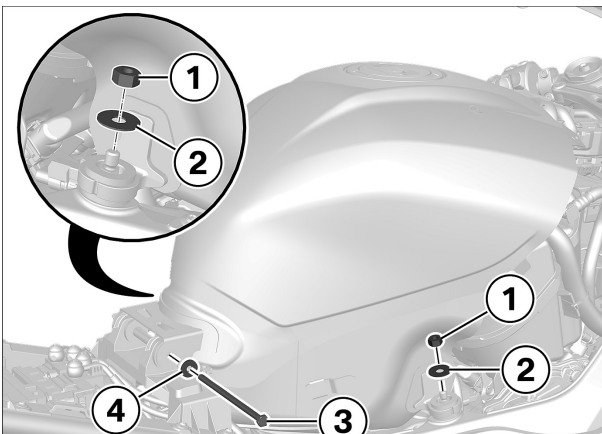
- Release fuel-tank cover **(1)** completely and detach locators **(arrows)**.
- Remove fuel-tank cover **(1)** completely.

5

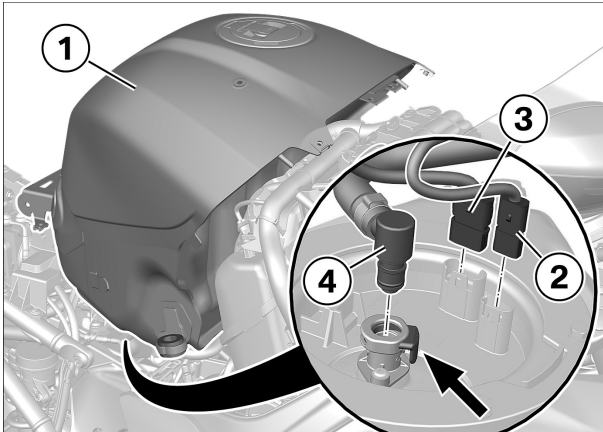


► Removing fuel tank

- Pull off hoses **(1)** and **(2)**.



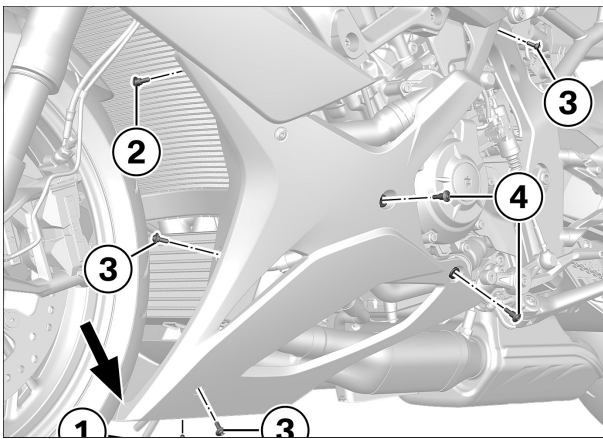
- Remove nuts **(1)** with washers **(2)**.
- Remove bolt **(3)** with washer **(4)**.



- Lift the fuel tank **(1)**.
- Disconnect plug connection **(3)** for electric fuel pump and plug connection **(2)** for fuel-level sensor.
- Press open the lock of the fuel delivery line (**arrow**) and disconnect fuel delivery line **(4)**.
- Remove fuel tank **(1)**.

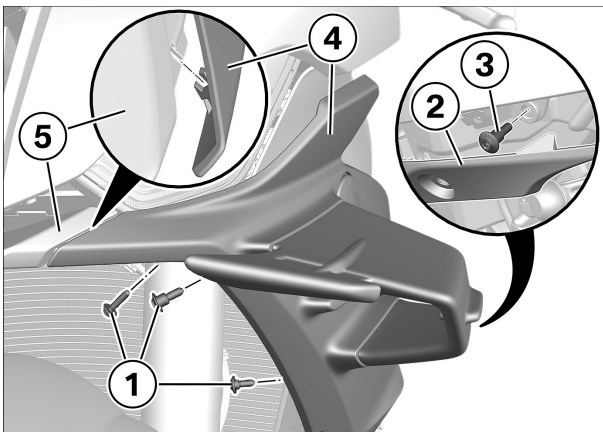


6

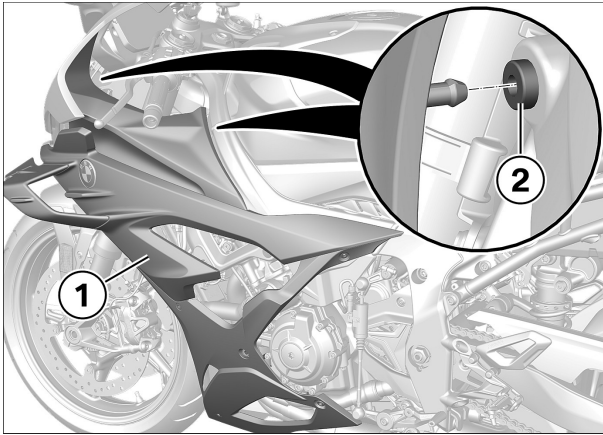


► **Removing fairing side panel with engine spoiler left and right**

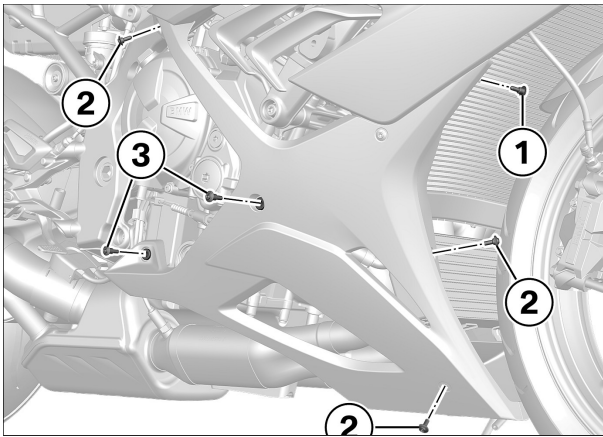
- Remove screw **(1)**.
- Remove screw **(2)**.
- Remove screws **(3)**.
- Remove screws **(4)**.
- Unclip locator (**arrow**).



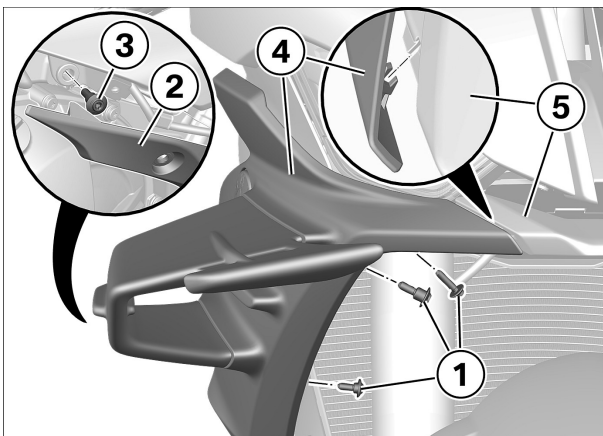
- Remove screws **(1)**.
- Loosen engine spoiler **(2)** and bend slightly down, remove screw **(3)**.
- Unclip fairing side panel **(4)** from front trim panel **(5)** (**arrow**).



- Loosen fairing side panel **(1)** from grommets **(2)** and remove.



- Remove screw **(1)**.
- Remove screws **(2)**.
- Remove screws **(3)**.

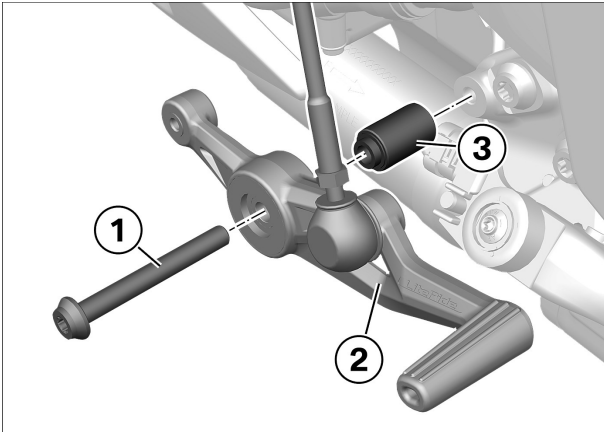


- Remove screws **(1)**.
- Loosen engine spoiler **(2)** and bend slightly down, remove screw **(3)**.
- Unclip fairing side panel **(4)** from front trim panel **(5)** (**arrow**).



- Loosen fairing side panel **(1)** from grommets **(2)** and remove.

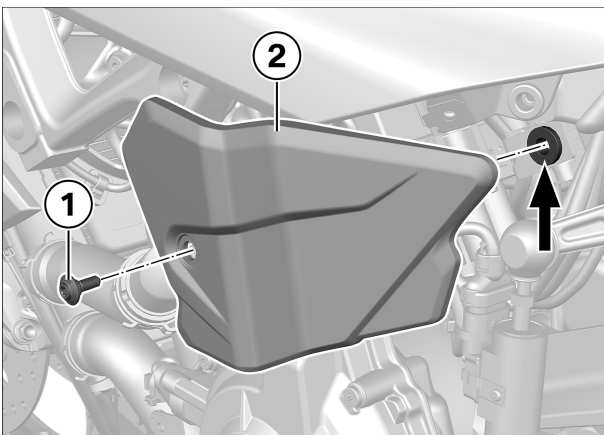
7



► **Releasing gearshift lever**

- Remove bolt (1).
- Release the gearshift lever (2) and mounting (3).
- Allow gearshift lever (2) to dangle to one side.

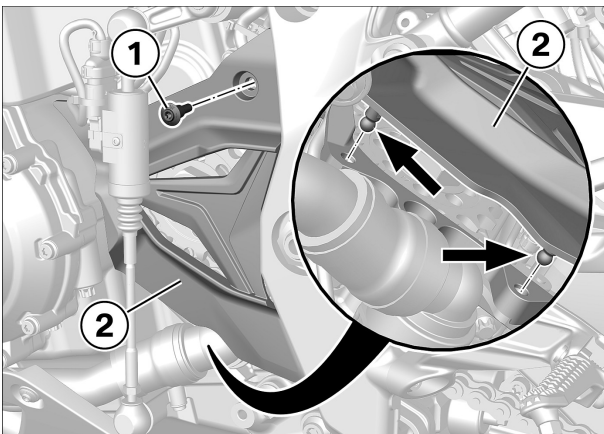
8



► **Removing the trim of the relay**

- Remove bolt (1).
- Remove trim (2) and also from rubber grommet (arrow).

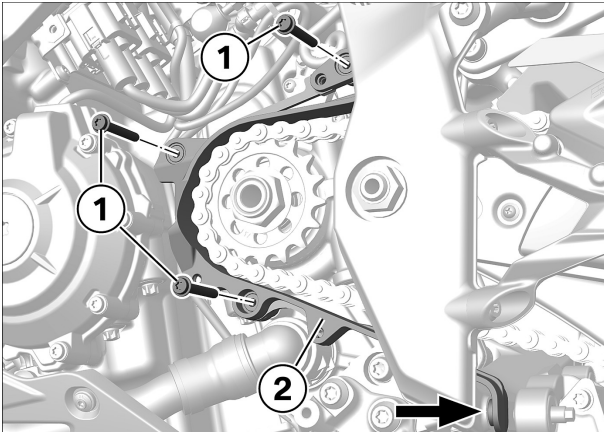
9



► **Removing pinion cover**

- Remove bolt (1).
- Slacken detent pins (arrows) evenly and remove pinion cover (2).

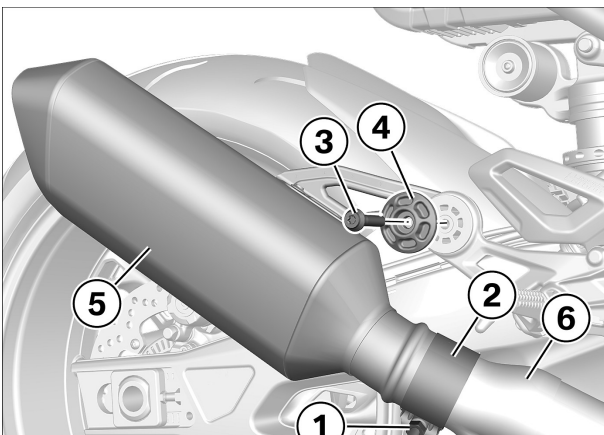
10



► Release chain failure protection

- Remove screws (1).
- Release the chain failure protection (2), to unclip from the mounting (arrow) on frames.

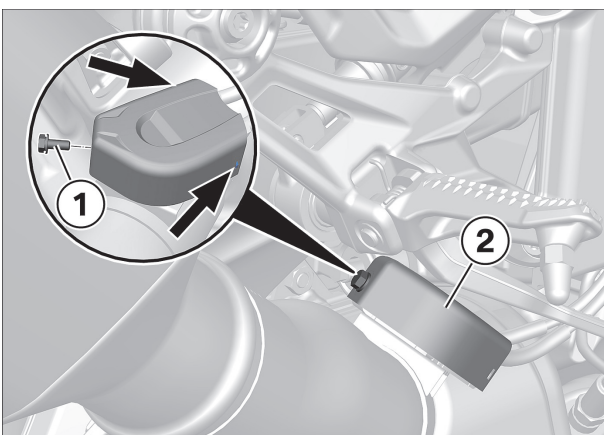
11



► Removing silencer

- Slacken nut (1) and release clamp (2).
- Remove the screw (3) and shaped washer (4) (save the components, they will be reused).
- Remove the silencer (5) from the front silencer (6).

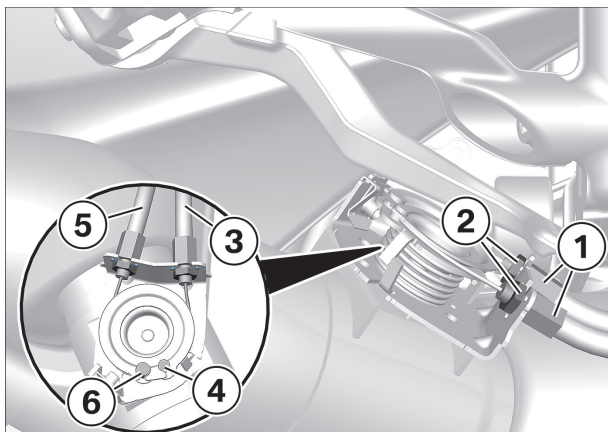
12



► Removing cover of exhaust-flow control valve

- Remove screw (1) and remove cover (2) from fixtures (arrows).

13

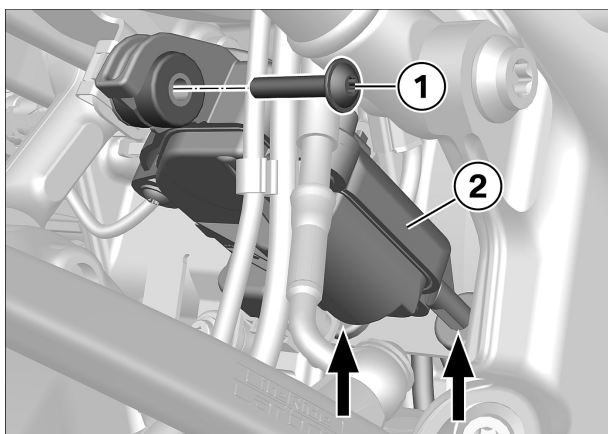


► **Disengaging Bowden cables from exhaust-flow control valve**

- Slacken screws (1) and counter-hold nuts (2) where needed.
- Loosen return cable (3) and detach cable (4).
- Loosen actuating cable (5) and detach cable (6).



14

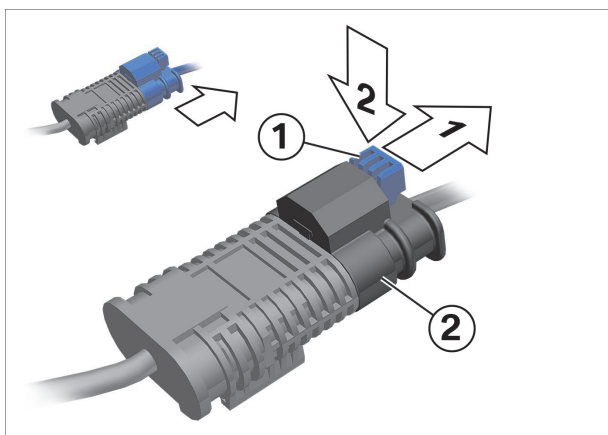


► **Disengaging servomotor for exhaust-flow control valve**

- Remove bolt (1).
- Release servomotor (2) from rubber grommets (arrows).



15



► **Disconnecting oxygen sensors**

▷ **Information on disconnecting vibration-resistant plug**

ATTENTION

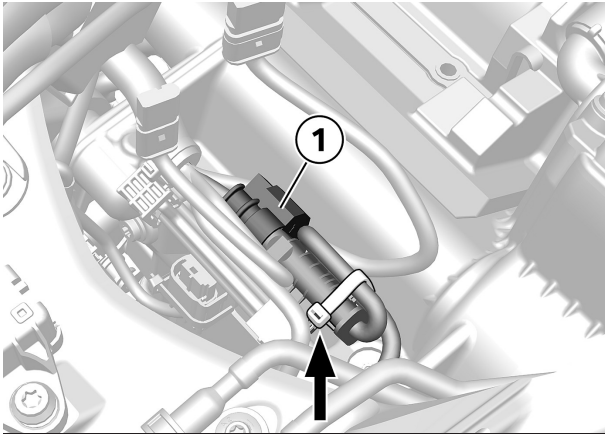
Disconnection of the connector not in compliance with correct procedure

Damage to locking tab

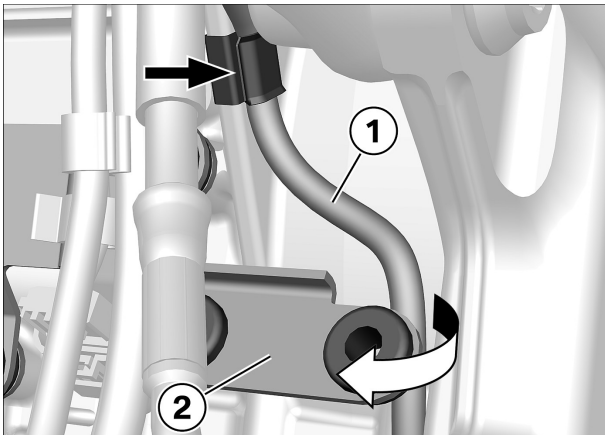
- Push the connector away from the locking tab, do not lift or bend the locking tab.

- Unlock locking tab (1) in direction of arrow (arrow 1).
- Press down locking tab (1) in direction of arrow (arrow 2) and disconnect connector (2).

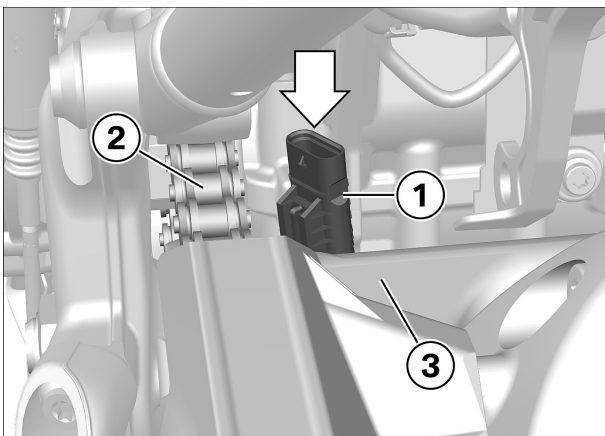




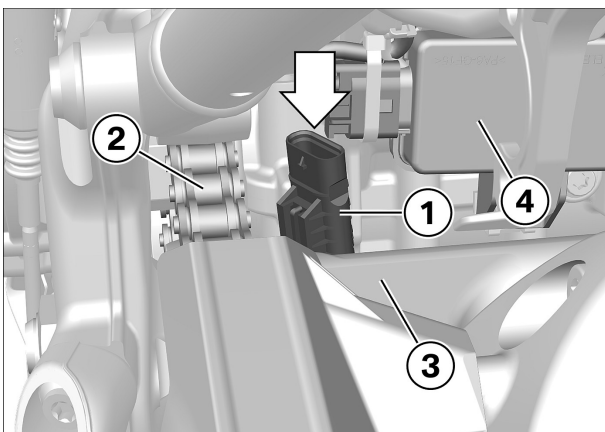
- Remove cable strap (**arrow**).
- Loosen and disconnect plug connection **(1)**.



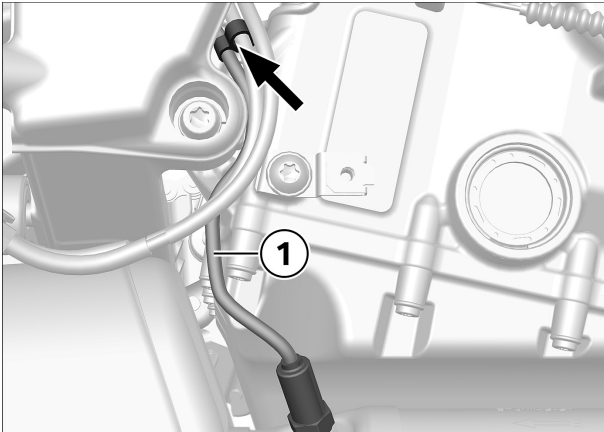
- Loosen cable **(1)** from holder (**arrow**) and work through under holder **(2)** for exhaust flap servomotor to the left side of vehicle.



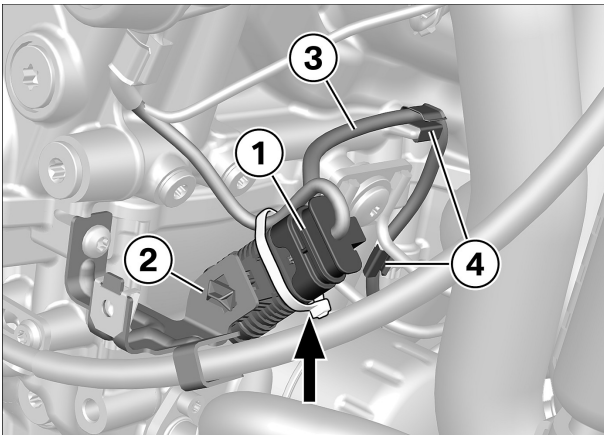
- Work connector **(1)** through with cable for oxygen sensor monitor near the drive chain **(2)** between the rear wheel swinging arm **(3)** and the engine to the bottom.



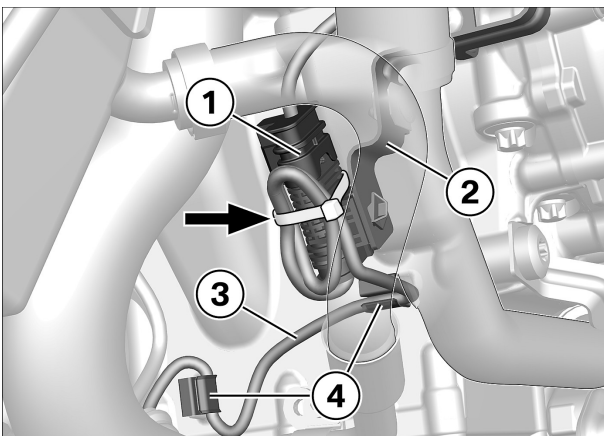
- with tyre pressure control (RDC)^{OE} (0530)
- Work connector **(1)** through with cable for oxygen sensor monitor near the drive chain **(2)** between the rear wheel swinging arm **(3)** and the engine toward the bottom while working cable through under the RDC control unit **(4)**.◇



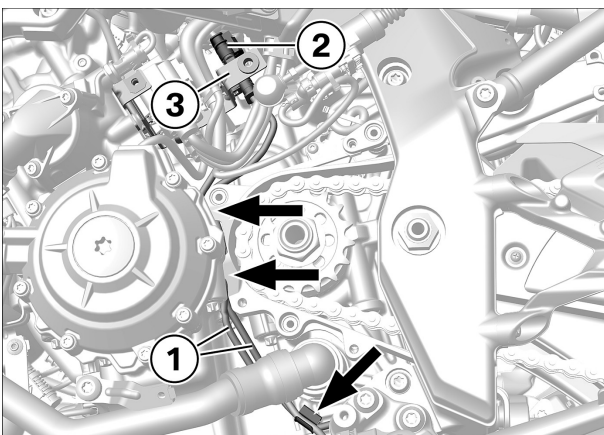
- Release the cable **(1)** for the monitoring oxygen sensor from the holder **(arrow)**.
- Thread out the cable **(1)**.



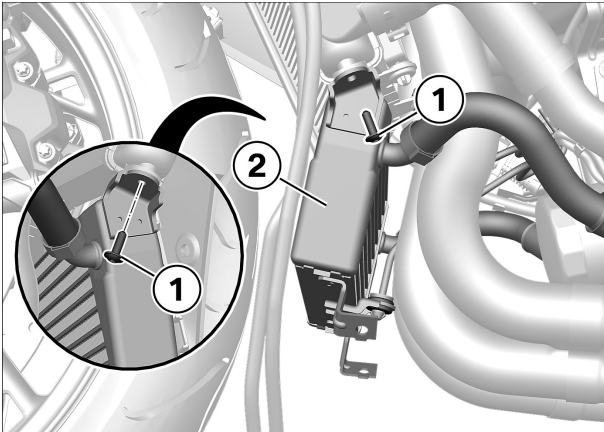
- Release plug connection **(1)** for front oxygen sensor from holder **(2)**.
- Remove cable strap **(arrow)**.
- Disconnect plug connection **(1)** for right front oxygen sensor.
- Release and guide out cable **(3)** from holder **(4)**.



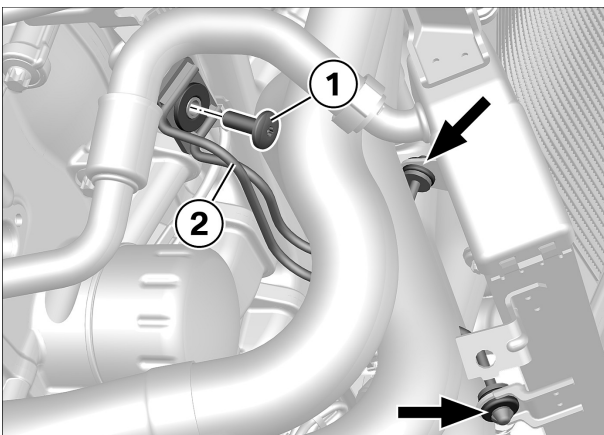
- Release plug connection **(1)** for left front oxygen sensor from holder **(2)**.
- Remove cable strap **(arrow)**.
- Disconnect plug connection **(1)** for left front oxygen sensor.
- Release and guide out cable **(3)** from holder **(4)**.



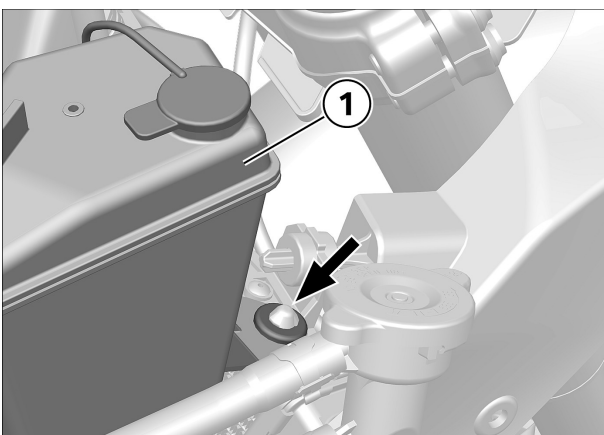
- Release cable **(1)** for left monitoring oxygen sensor and side-stand switch from holders **(arrows)**.
- Release plug connection **(2)** for left monitoring oxygen sensor and work clear from relay holder **(3)** outward.
- Disconnect plug connection **(2)** for left monitoring oxygen sensor.

16**▶ Releasing oil cooler**

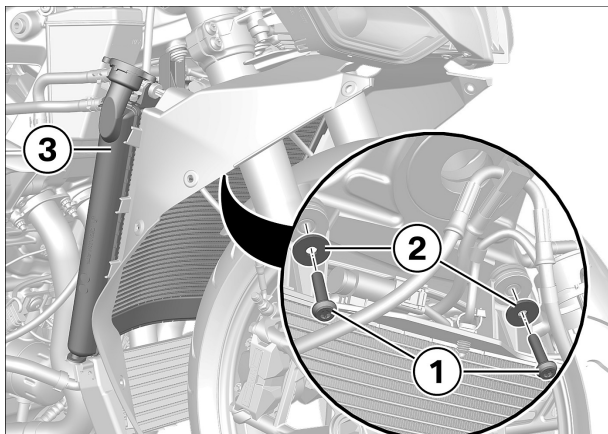
- Remove screws (1).
- Release oil cooler (2).

17**▶ Removing bracket for radiator**

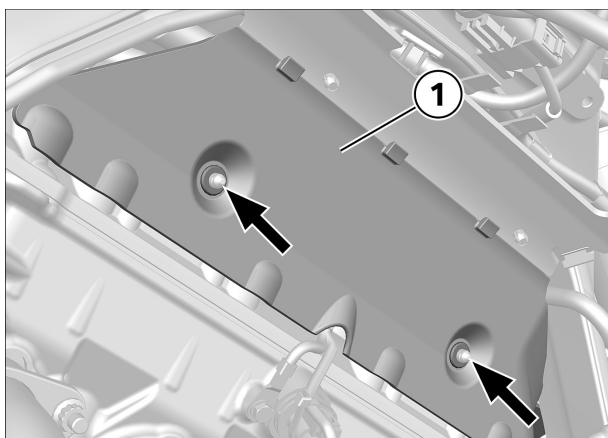
- Remove bolt (1).
- Loosen lugs (arrows).
- Work out holders (2) and remove.

18**▶ Disengaging radiator**

- Loosen expansion tank (1) from lug (arrow).



- Remove screws **(1)** and washers **(2)**.
- Loosen radiator **(3)** and pull to the front.



- Loosen exhaust duct **(1)** from lug **(arrows)**.

19

► Removing exhaust manifold

CAUTION

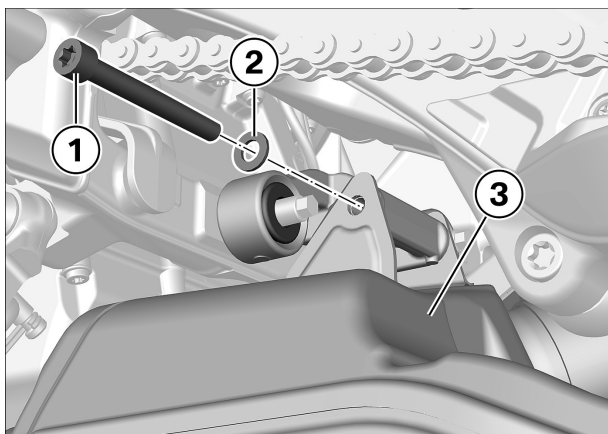
Hot exhaust system

Risk of burn injury

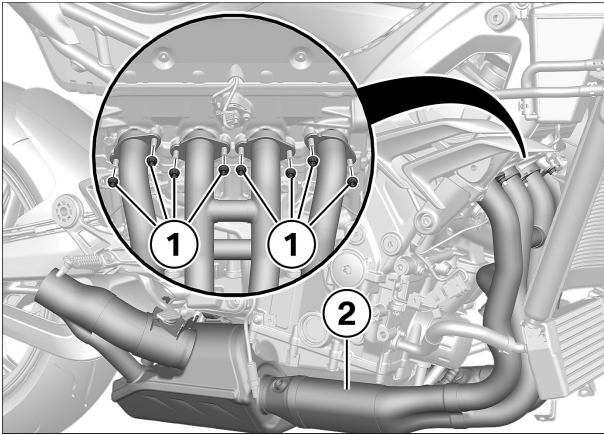
- Do not touch a hot exhaust system.

NOTICE

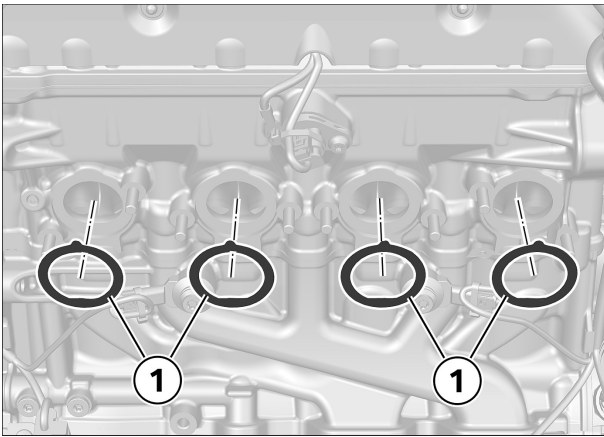
Support the exhaust system to make it easier to remove and install the assembly.



- Remove and store bolt **(1)** and washer **(2)** (subsequently needed for reassembly).
- Release exhaust manifold **(3)**.

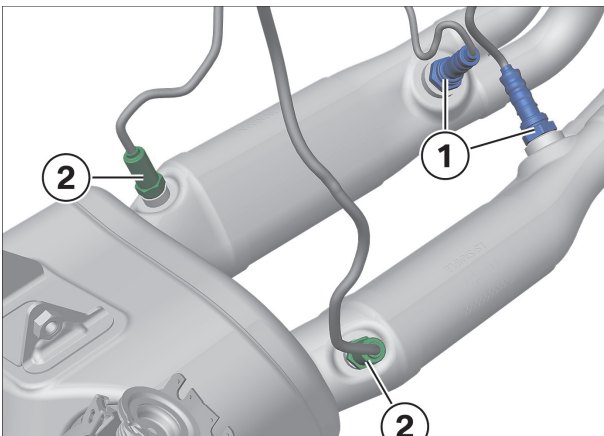


- Remove and store nuts **(1)** (**will be reused**).
- Remove exhaust manifold **(2)**.



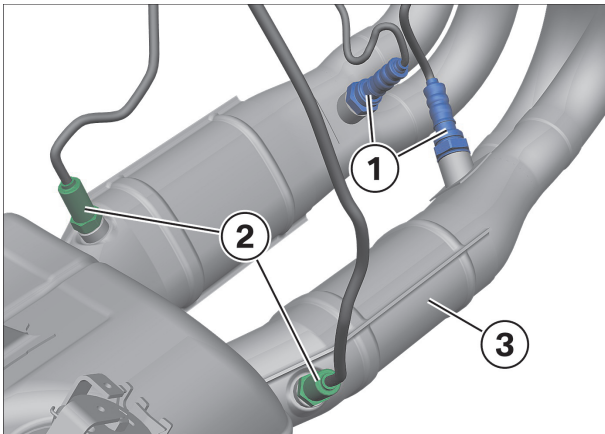
- Remove exhaust manifold seals **(1)** and dispose of them correctly.

20




► Transferring oxygen sensors to new exhaust manifold


- Remove front oxygen sensors **(1)**.
- Remove monitoring oxygen sensors **(2)**.




- Lightly lubricate thread of oxygen sensors (1) and (2).

 Lubricant	
Optimoly TA	18 21 9 062 599

- Install oxygen sensors (2) in new exhaust manifold (3).

 Tightening torques		
Monitoring oxygen sensor to exhaust manifold		
M12 x 1.25 Thinly lubricate thread, Lubricant (Optimoly TA)	25 Nm	

- Install front oxygen sensors (1) in new exhaust manifold (3).

 Tightening torques		
Front oxygen sensor to exhaust manifold		
M14 x 1.25 Thinly lubricate thread, Lubricant (Optimoly TA)	45 Nm	


21

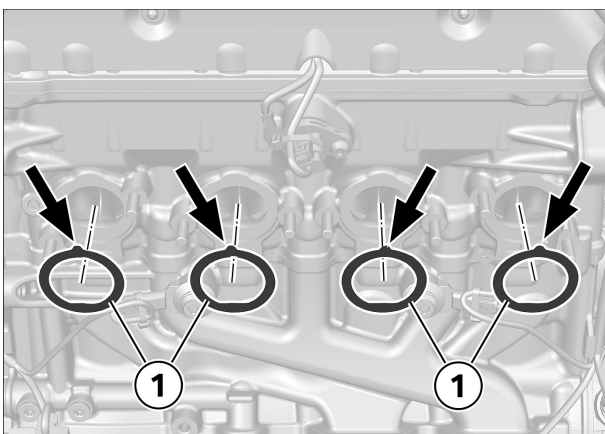
► Installing exhaust manifold

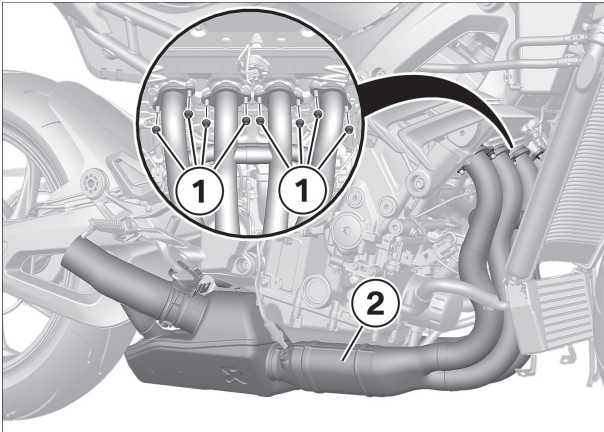
NOTICE

Support the exhaust system to make it easier to remove and install the assembly.

- Lubricate new seals (1) lightly and install in cylinder head making sure that tabs (arrows) face up.

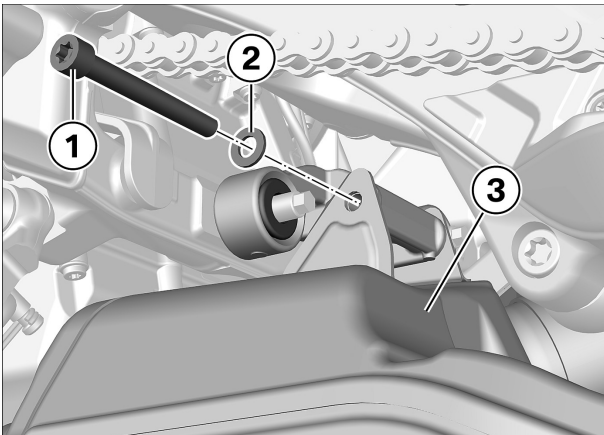
 Lubricant	
Optimoly TA	18 21 9 062 599





- Hold exhaust manifold **(2)** in position.
- Install nuts **(1)**.

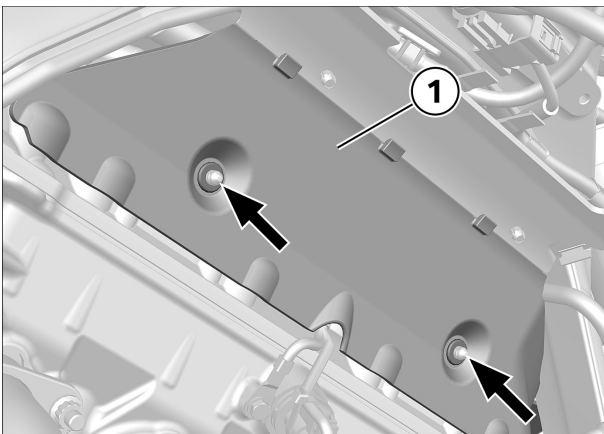
🔧 Tightening torques		
Exhaust manifold to cylinder head		
M7	14 Nm	



- Clean thread.
- Position exhaust manifold **(3)**.
- Install bolt **(1)** and washer **(2)**.

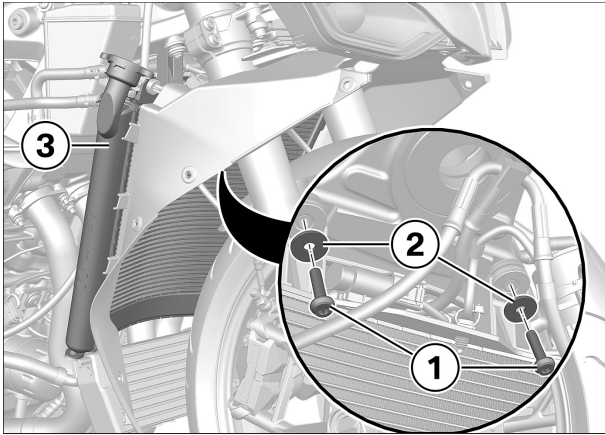
🔧 Tightening torques		
Exhaust manifold to holder		
M8 x 70, Renew screw Thread-locking compound (micro-encapsulated)	18 Nm	

22




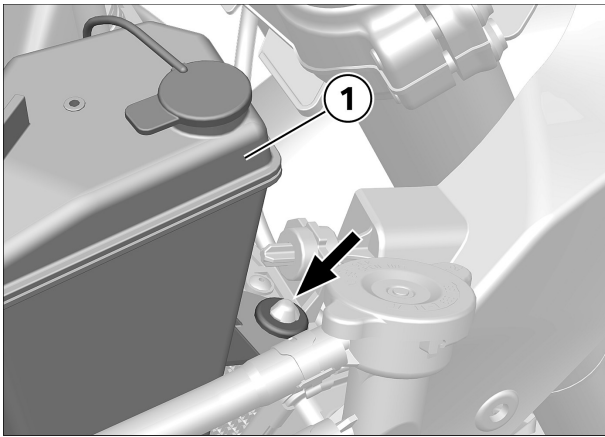
► Securing radiator

- Push the radiator back.
- Secure exhaust duct **(1)** on lugs **(arrows)**.



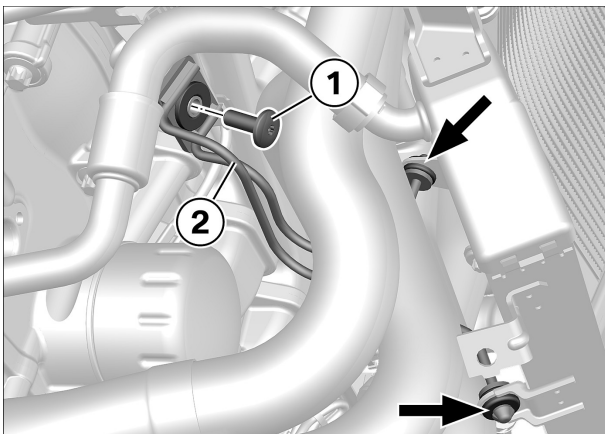
- Fit radiator **(3)**.
- Install screws **(1)** and washers **(2)**.

 Tightening torques		
Radiator to frame		
M6 x 25	8 Nm	




- Secure expansion tank **(1)** on lugs **(arrow)**.

23

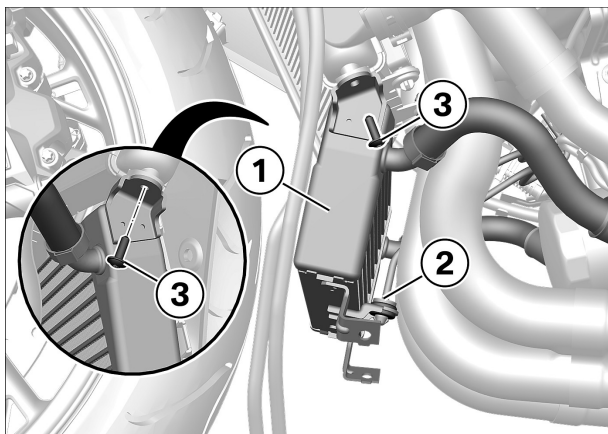


► **Installing bracket for radiator**

- Work holder **(2)** in and fit.
- Secure lugs **(arrows)**.
- Install bolt **(1)**.

 Tightening torques		
Radiator holder to crankcase		
M8 x 24	8 Nm	

24

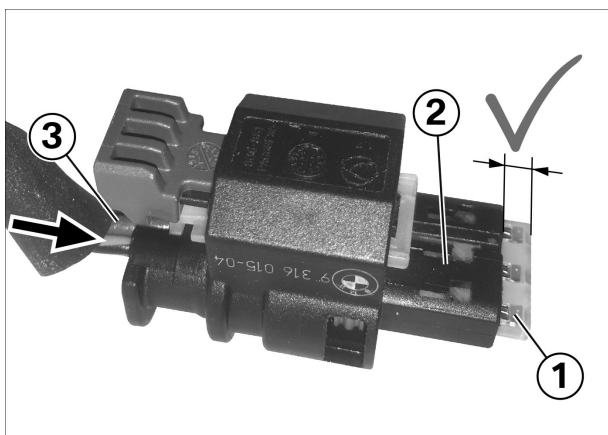


► Secure the oil cooler

- Clean the threads.
- Make sure that the oil cooler (1) is fastened on holder (2).
- Fit oil cooler (1) and install bolts (3).

Tightening torques		
Oil cooler to radiator		
M5 x 16, Renew screw	5 Nm	
Thread-locking compound (micro-encapsulated)		

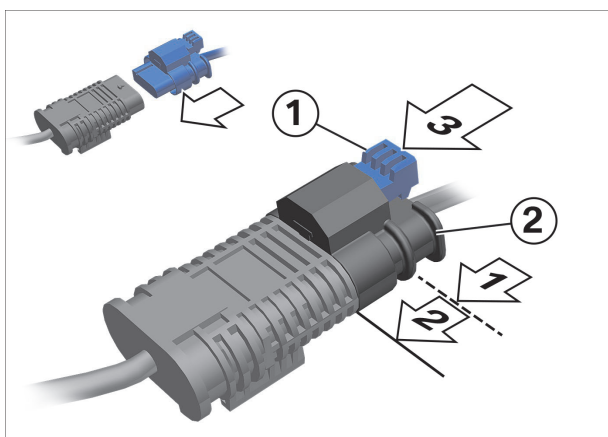
25



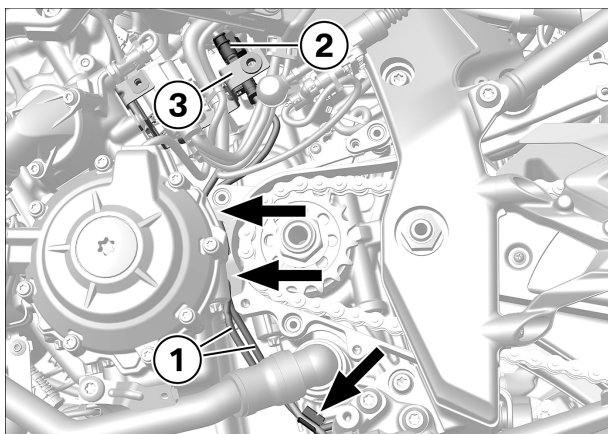
► Connecting oxygen sensors

▷ Information for connecting vibration-resistant connectors

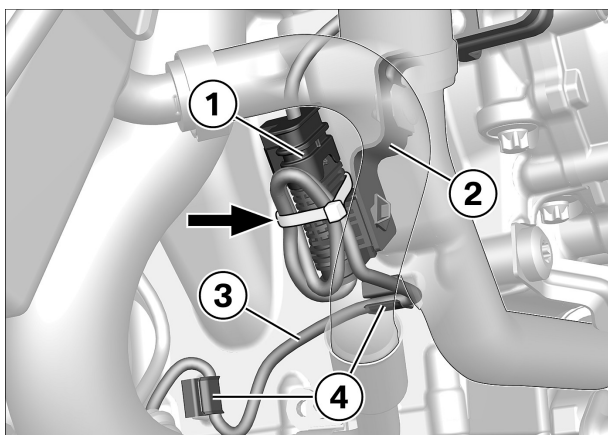
- Check if the contact carrier (1) protrudes significantly from the connector housing (2).
- If necessary, hold down the connector housing (2) and slide contact carrier from the rear at the cable inlet (3) toward the front until the contact carrier (1) is visible



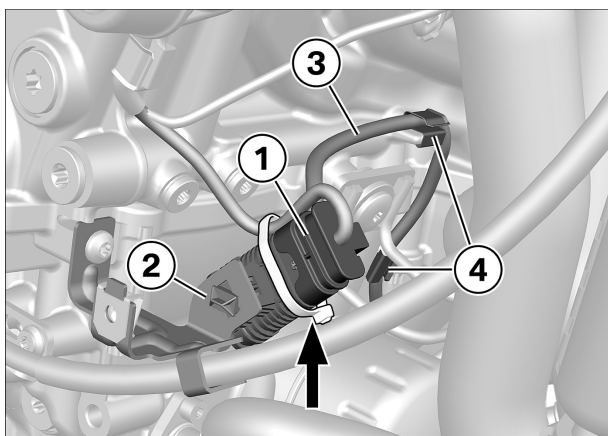
- Ensure that the release tab (1) is unlocked.
- Slide connector (2) in direction of arrow (arrow 1).
 - » The connector (2) engages audibly.
- Slide connector (2) in direction of arrow (arrow 2) further.
 - » The connector (2) engages audibly.
- Slide locking tab (1) in direction of arrow (arrow 3).
 - » The locking tab (1) engages audibly.



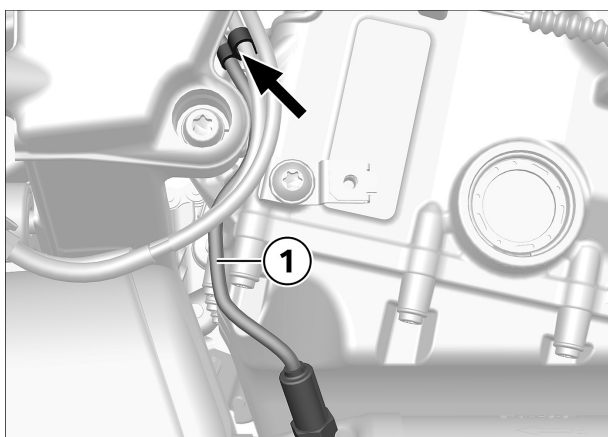
- Connect plug connection **(2)** for left monitoring oxygen sensor.
- Insert plug connection **(2)** behind relay holder **(3)** and secure.
- Secure cable **(1)** for monitoring oxygen sensor and side-stand switch in holder **(arrows)**.



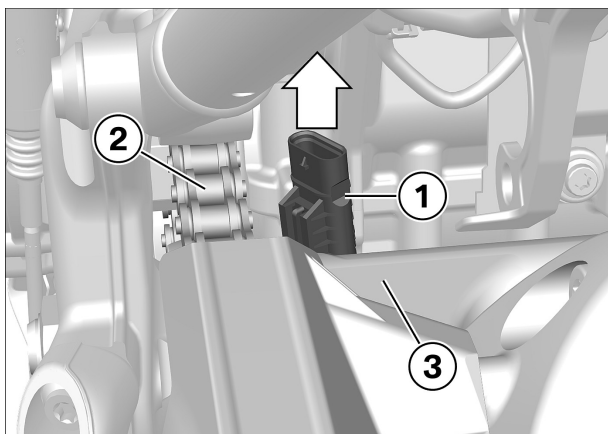
- Route cable **(3)** and secure in holder **(4)**.
- Connect plug connection **(1)** for left front oxygen sensor.
- Route excess cable lengths **(3)** in loops and secure with cable strap **(arrow)**.
- Secure plug connection **(1)** for left front oxygen sensor in holder **(2)**.



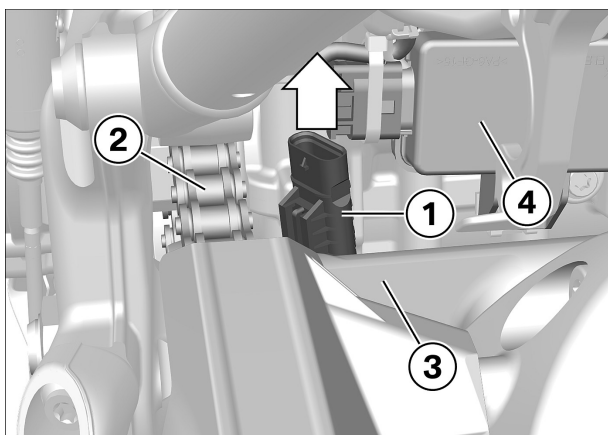
- Lay cable **(3)** and secure in holders **(4)**.
- Connect plug connection **(1)** for right front oxygen sensor.
- Secure plug connection **(1)** for right front oxygen sensor in holder **(2)**.
- Form excess cable lengths **(3)** into loops and secure cable strap **(arrow)**.



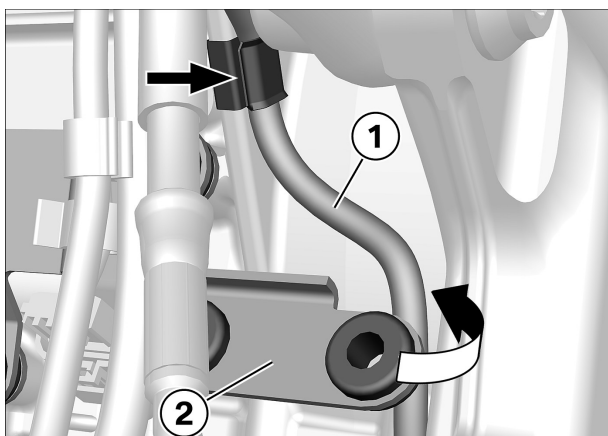
- Work in cable **(1)** for monitoring oxygen sensor and work through under rear wheel swinging arm to the left side of the vehicle.
- Secure the cable **(1)** in the holder **(arrow)**.



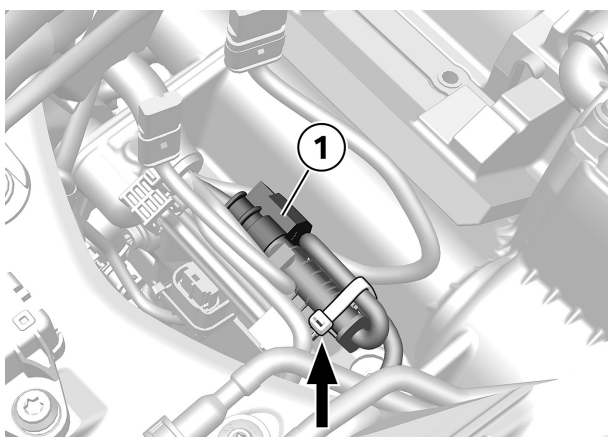
- Work connector (1) through with cable for monitoring oxygen sensor near the drive chain (2) between the rear wheel swinging arm (3) and the engine to the top.
- Work connector (1) with cable through to the right side of the vehicle.



- with tyre pressure control (RDC)^{OE} (0530)
- Work connector (1) through with cable for monitoring oxygen sensor near the drive chain (2) between the rear wheel swinging arm (3) and the engine toward the top while working cable through under the RDC control unit (4) to the top.
- Work connector (1) with cable through to the right side of the vehicle.◇

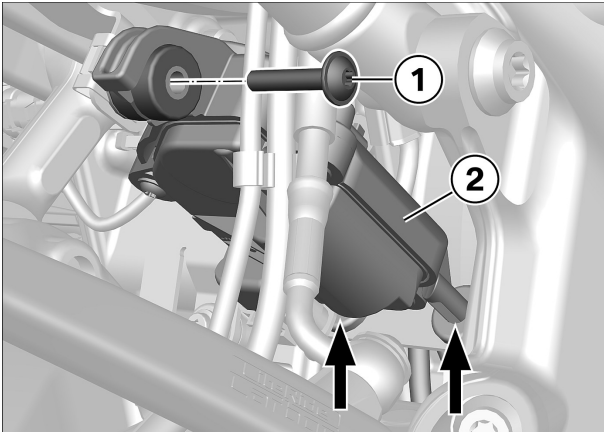


- Work cable (1) through under holder (2) for exhaust flap servomotor toward the front and secure in holder (arrow).



- Connect and secure the plug connection (1).
- Secure the cable strap (arrow).

26

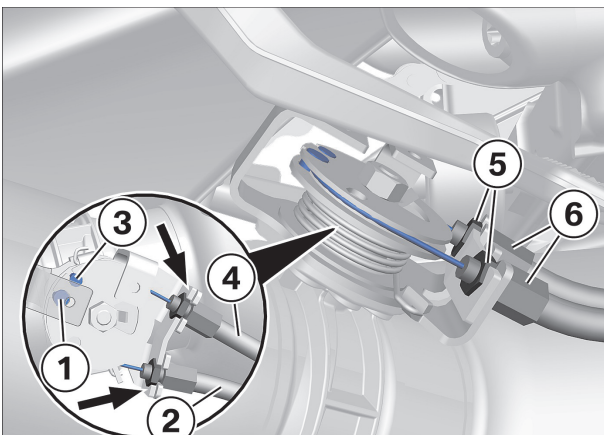


► Securing servomotor for exhaust-flow control valve

- Secure servomotor(2) in rubber grommets (arrows).
- Install bolt (1).

Tightening torques		
Servomotor holder for exhaust flap to frame		
M5 x 10	2 Nm	

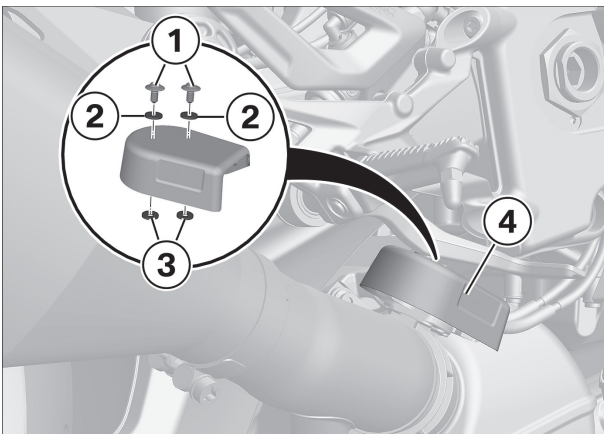
27



► Securing Bowden cables to exhaust-flow control valve

- Attach cable (1) and fit actuating cable (2).
- Attach cable (3) and position retention cable(4).
- Position nuts (5) in stops (arrows).
- Tighten bolts (6) and counter-hold nuts (5) where needed.

28



► Installing cover of exhaust-flow control valve

- Position cover (4) with preassembled bolts (1) and washers (2) and (3).
- Install screws (1).

29

► Installing sports silencer

ATTENTION

Use of unsuitable cleaning agents

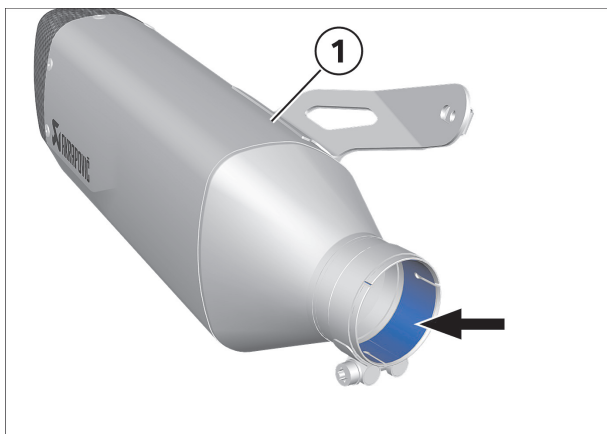
Damage to the surface

- Use only a care spray recommended by your authorised BMW Motorrad dealer and a dry, soft cloth to clean the outside of the sports silencer and the retaining clip.

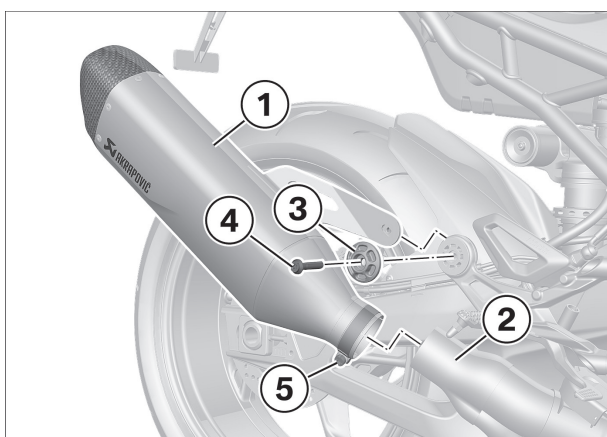
NOTICE

The lifespan of the insulating material in the silencer depends on engine performance and style of riding. Consult an authorised BMW Motorrad dealer if the silencer becomes louder or if its external appearance changes. Note, however, that slight discolouration of the silencer is normal. This discolouration is caused by the high temperature of the exhaust gas.

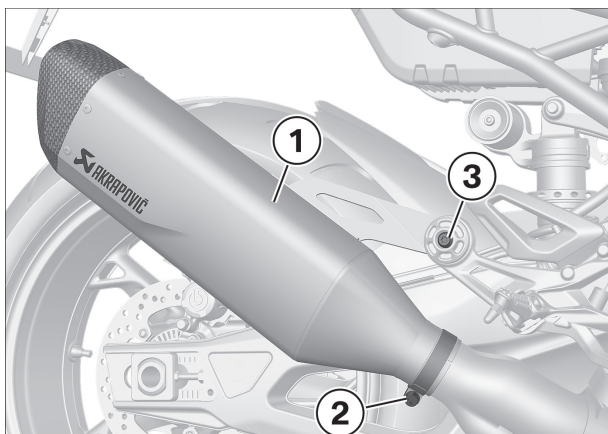
- Lightly lubricate inside (**arrow**) of sports silencer (**1**).



Lubricant	
Optimoly TA	18 21 9 062 599



- Attach sports silencer (**1**) on exhaust pipe of front silencer (**2**).
- Position shaped washer (**3**) and install screw (**4**), do not tighten.
- Tighten clamp (**5**) hand-tight.



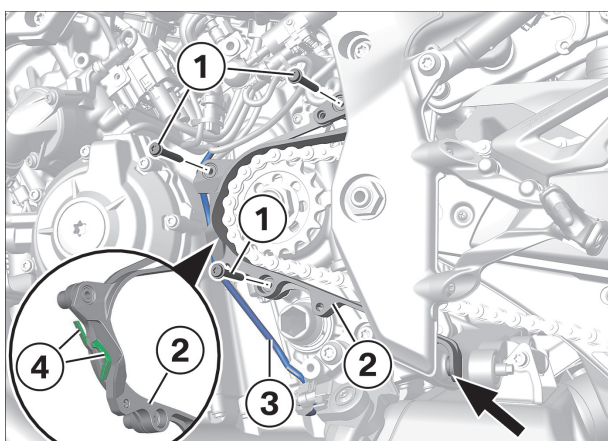
- Align sports silencer **(1)**.
- Tighten clamping collar **(2)**.

🔧 Tightening torques		
Clamping collar for rear silencer		
M8	24 Nm	

- Tighten screw **(3)**.

🔧 Tightening torques		
Silencer to footrest system		
M8 x 40	19 Nm	

30

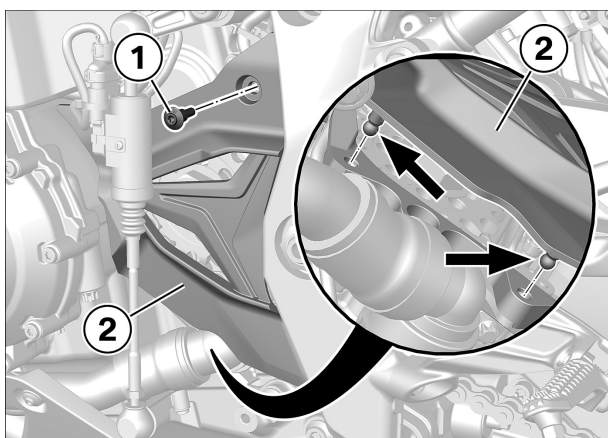


► Secure chain failure protection

- Route wiring harness **(3)** in cable routing **(4)** of chain failure protection **(2)**.
- Secure chain failure protection **(2)**. Clip into mounting **(arrow)** on frame for this purpose.
- Install screws **(1)**.

🔧 Tightening torques		
Chain drop guard to engine		
M6 x 45	5 Nm	

31



► Installing pinion cover

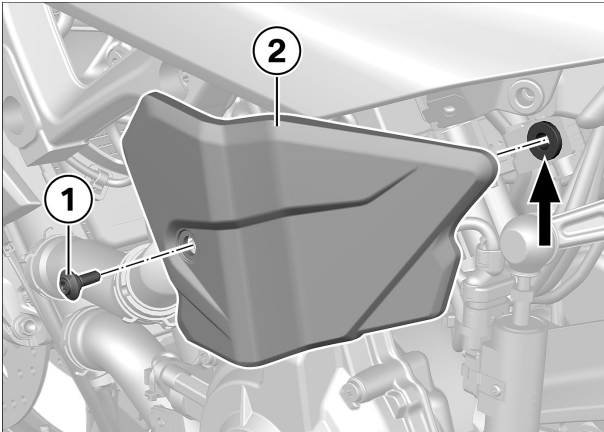
- Lubricate detent pin **(arrows)**.

🔧 Installation tool		
Silicone spray	83 19 2 208 609	

- Position pinion cover **(2)** and let detent pin **(arrow)** engage.
- Install bolt **(1)**.

🔧 Tightening torques		
Pinion cover to chain failure protection		
M5 x 20	2 Nm	

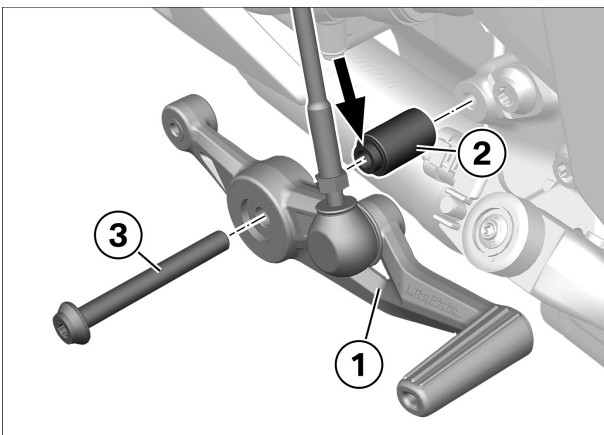
32



► **Installing the trim for the relay**

- Install trim (2) and secure in rubber grommet (arrow).
- Install bolt (1).

33

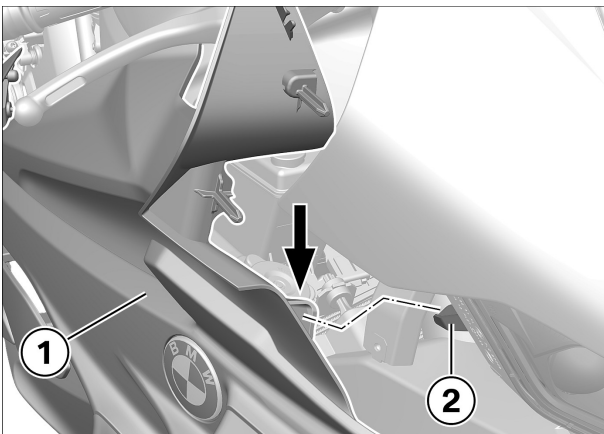


► **Securing gearshift lever**

- Position gearshift lever(1) and fixture(2) with offset side(arrow) towards gearshift lever(1).
- Install bolt (3).

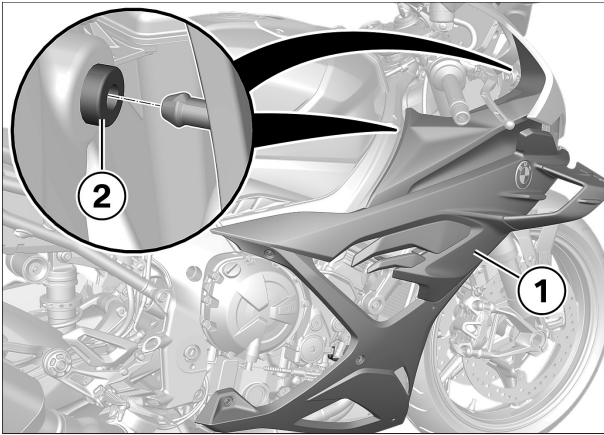
Tightening torques		
Gearshift lever to side-stand pivot mount		
M8 x 65	19 Nm	

34

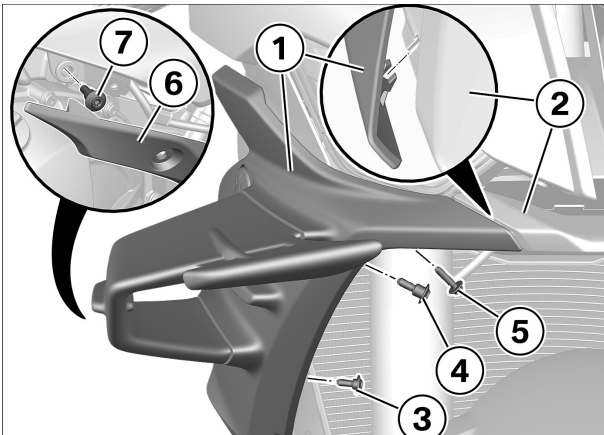


► **Install fairing side panel with engine spoiler right and left**

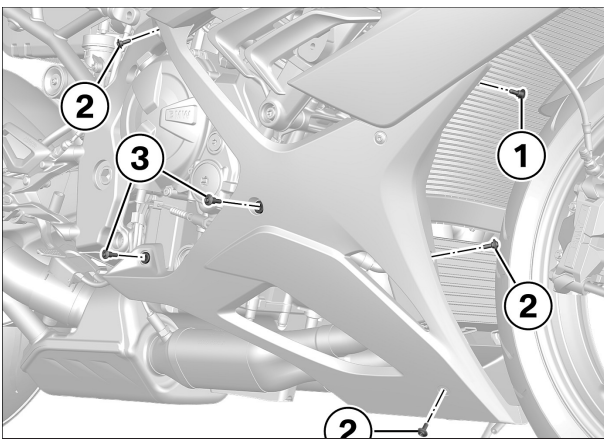
- When installing right fairing side panel (1), make sure lug (2) engages in holder (arrow).



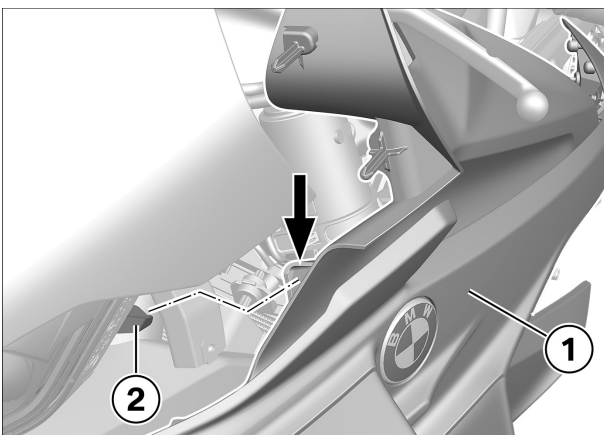
- Position right fairing side panel **(1)** and secure in grommets **(2)**.



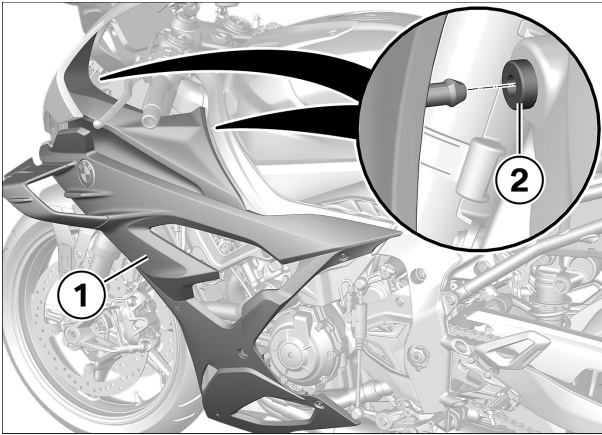
- Clip in fairing side panel **(1)** in front trim panel **(2)** (**arrow**).
- Install screws (3 mm collar) **(3)**.
- Install screw (6 mm collar) **(4)**.
- Install screws (without collar) **(5)**.
- Bend engine spoiler **(6)** slightly down and install screw (9 mm collar) **(7)**.
- Position engine spoiler **(6)**.



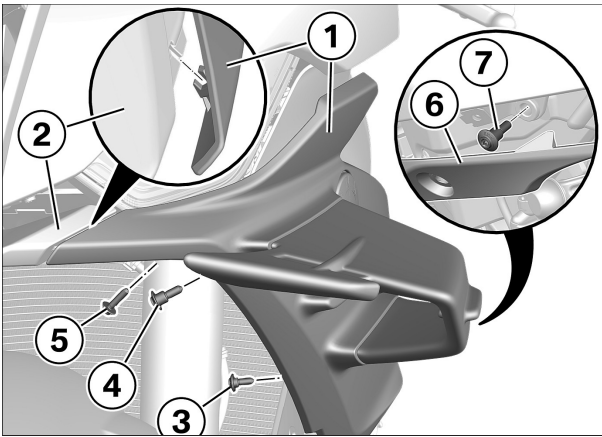
- Install screws (9 mm collar) **(3)**.
- Install screws (3 mm collar) **(2)**.
- Install screw (6 mm collar) **(1)**.



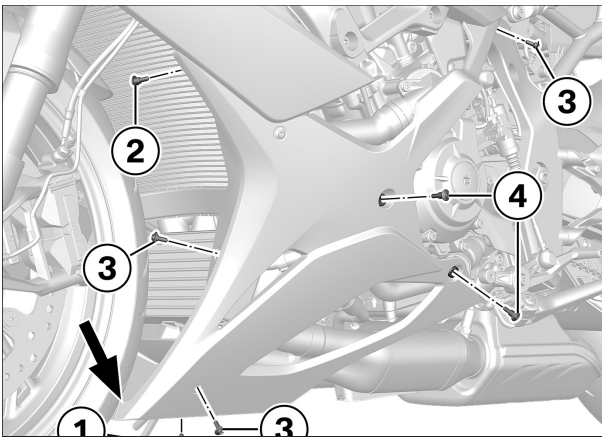
- When installing left fairing side panel **(1)**, make sure lug **(2)** engages in holder (**arrow**).



- Position left fairing side panel **(1)** and secure in grommets **(2)**.

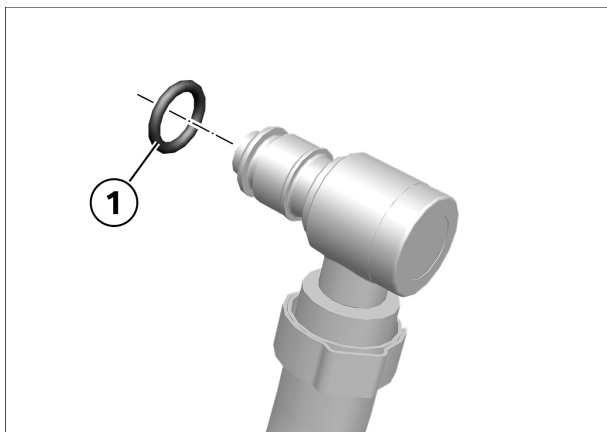


- Clip in fairing side panel **(1)** in front trim panel **(2)** (arrow).
- Install screws (3 mm collar) **(3)**.
- Install screw (6 mm collar) **(4)**.
- Install screws (without collar) **(5)**.
- Bend engine spoiler **(6)** slightly down and install screw (9 mm collar) **(7)**.
- Position engine spoiler **(6)**.



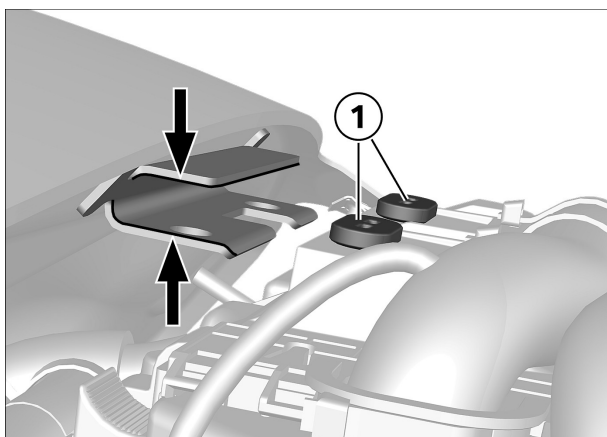
- Clip in locators (arrow).
- Install screws (9 mm collar) **(4)**.
- Install screws (3 mm collar) **(3)**.
- Install screw (6 mm collar) **(2)**.
- Install screw (without collar) **(1)**.

35

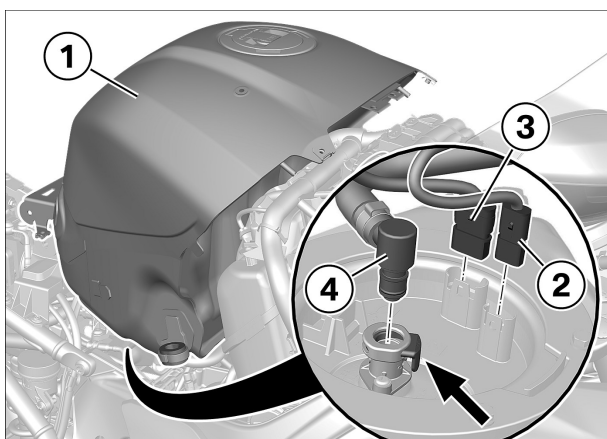


► Installing fuel tank

- Check O-ring of fuel delivery line **(1)** for damage; replace if necessary.



- While installing the fuel tank, ensure that the rubber retainer fits **(1)** in to the guide **(arrows)** of fuel tank.



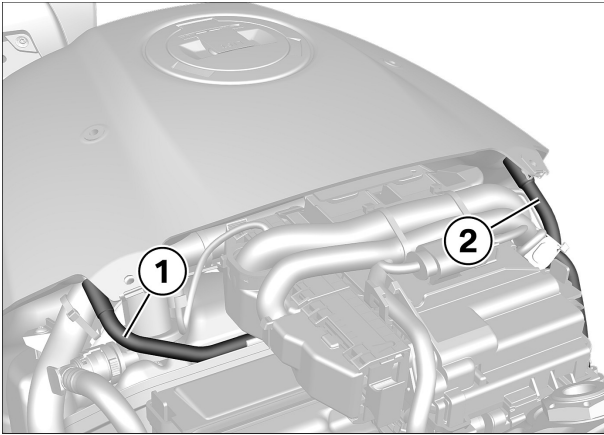
- Position fuel tank **(1)**.

 **ATTENTION**
Application of force to close locked quick-action couplings

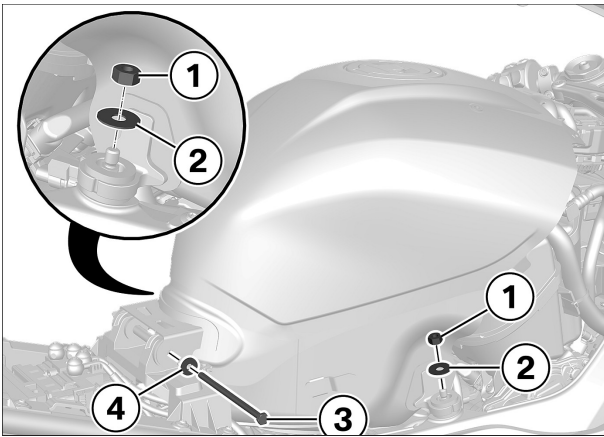
Leak due to damaged O-rings

- Close the quick-action coupling of the fuel line only with the latch open/pressed.


- Push open the lock for fuel delivery line **(arrow)** and push fuel delivery line **(4)** into the bush with slight effort. Release the latch and check that the delivery line is correctly seated.
- Connect plug connection **(2)** for fuel level sensor and plug connection **(3)** for electric fuel pump.
- Position fuel tank **(1)**.




- Connect hoses (1) and (2).



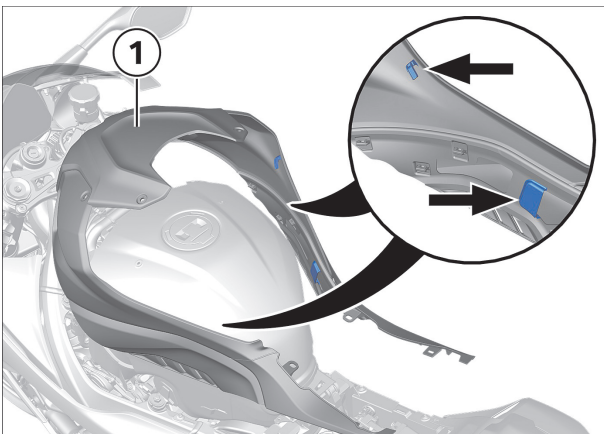
- Install bolt (3) with washer (4).

 Tightening torques		
Fuel tank to retaining bridge, rear		
M6 x 115	5 Nm	

- Install nuts (1) using washers (2).

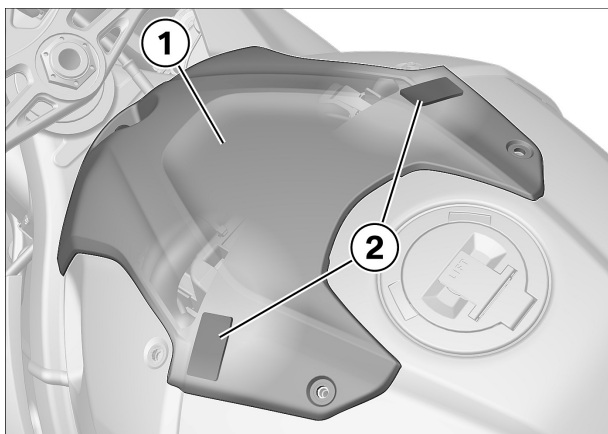
 Tightening torques		
Fuel tank to frame		
M8	19 Nm	

36

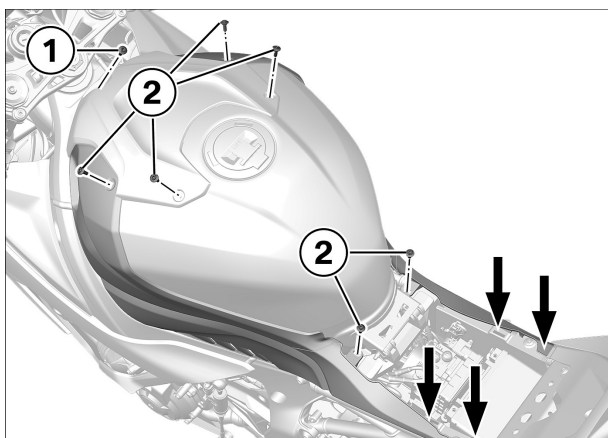


► Installing complete cover of fuel tank

- Fit complete cover of fuel tank (1), attach locators (arrows) and install.



- Position centre fuel tank cover (1) and secure hook and loop tape (2).



- Install screws (shorter collar) (2).
- Install bolt (1) (long collar)
- Engage locators (arrows).

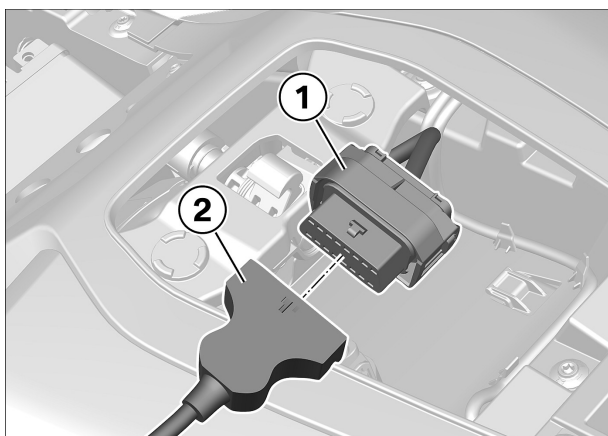
37

► Connecting BMW Motorrad diagnostic system to vehicle

- Connect the BMW Motorrad battery charger.

NOTICE

When carrying out diagnosis and programming, use a battery charger with 30 A approved by BMW Motorrad that ensures an **on-board system voltage of 13 V**.



- Release diagnostic connector (1).
- Connect connecting cable (2) of the BMW Motorrad diagnosis system to the diagnostic connector (1).

NOTICE

See the information about the BMW diagnostic system for all further instructions.

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- ▶ **Reading fault memory with BMW Motorrad diagnostic system and resetting adaptation values**

 **NOTICE**

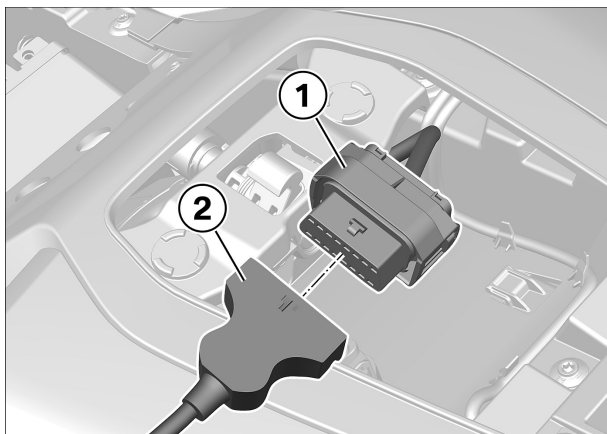
When working with the BMW diagnosis system, follow the instructions.

- Read out the fault memory.
- Perform all requisite repair work.
- Reset the adaptation values.
- Adaptation group in ISTA process "Read/reset adaptation values":

» **Mixture preparation**



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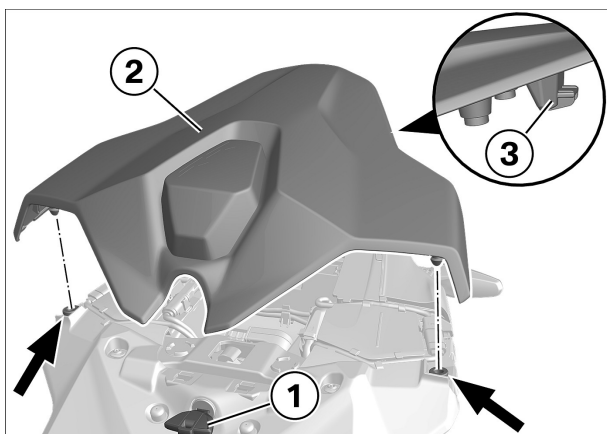


- ▶ **Disconnecting BMW Motorrad diagnostic system from vehicle**

- Close all diagnostic programs and switch off the ignition.
- Disconnect connecting cable (2) of the BMW Motorrad diagnosis system from diagnostic connector (1).
- Secure diagnostic connector (1).
- Disconnect the BMW Motorrad battery charger from the vehicle.



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- ▶ **Installing tail-hump cover**

- Position tail-hump cover (2) and hook fixture (3).
- Push down tail-hump cover (2) and secure in rubber grommets (arrows).

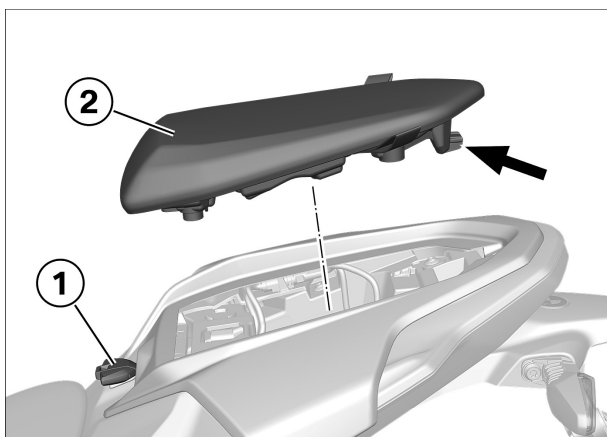
 **NOTICE**

lubricate rubber grommets.

- Lock tail-hump cover (2) with vehicle key (1).



41

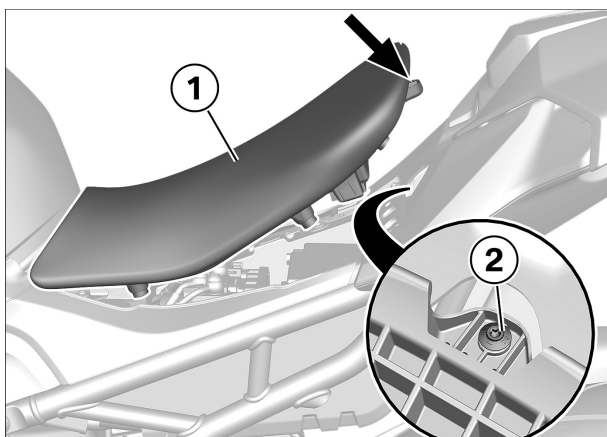


– with two-up riding package^{OE} (0413)

► **Installing passenger seat**

- Position passenger seat **(2)** hooking locator **(arrow)**.
- Press passenger seat **(2)** down and lock with vehicle key **(1)**.◇

42



► **Installing rider's seat**

- Insert front rider's seat **(1)** and position.
- Press rider's seat **(1)** on seat cushion surface **(arrow)** to front.
- Position screw **(2)** and install.

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► **Final check of work performed**

- Check the following:
 - The work as performed achieved the intended purpose.
 - All reservoirs and containers have been filled and all fluids and lubricants are at their correct levels.
 - All threaded fasteners released beforehand have been correctly retightened.
 - The fuel system is free of leaks.
 - The lights and signalling equipment are fully operational and the vehicle is roadworthy.
 - The brake pads of the front and rear brakes are bedded against the brake discs.

▷ **Function test, engine start suppression**

Check

- Set the emergency-off switch (kill switch) to the operating position ("ON").
- Select neutral.
 - » Switch on the ignition.
 - » Neutral indicator light "N" lights up.
- Select a gear.
 - » Neutral indicator light "N" goes out.
- Press the starter button.
 - » Starter does **not** operate.
- Extend the side stand.
 - » Starter does **not** operate.
- Pull the clutch lever.
 - » Starter does **not** operate.
- Press the starter button.
 - » Starter does **not** operate.
- Retract the side stand.
 - » Starter does **not** operate.
- Press the starter button without releasing the clutch lever.
 - » Starter operates.

Result

Not all test steps completed successfully.

Measure

- Check the appropriate parts with the BMW Motorrad diagnostic system.

