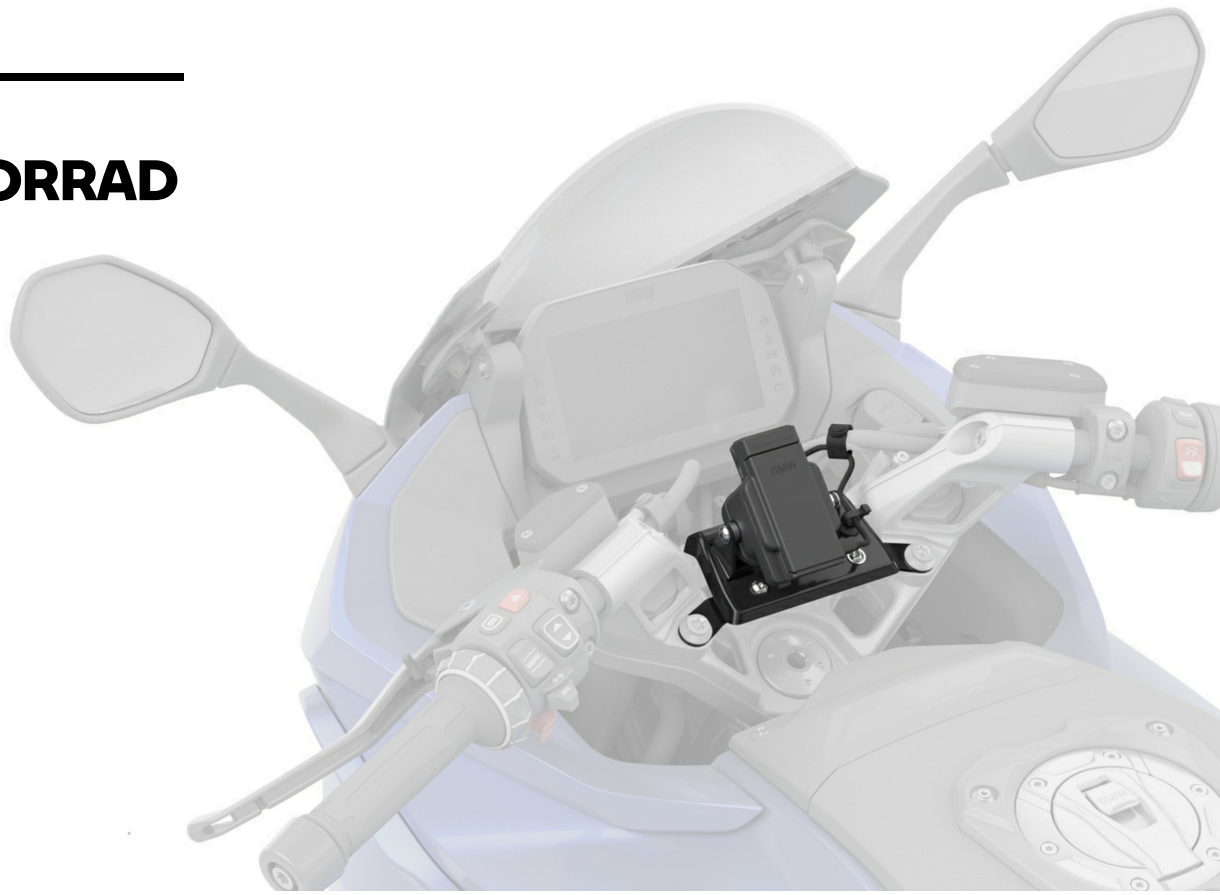




**BMW
MOTORRAD**



Installation instructions

NAVIGATION PREPARATION

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.

Navigation preparation

Requisite tools

Torx wrench set
Torque wrench
Pliers (17 5 571)
Order No.: 83 30 0 415 945



Scope of installation

Navigation holder kit

General instructions

⚠ CAUTION

Hot engine and/or hot exhaust system

Risk of burn injury

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

⚠ ATTENTION

Vehicle not securely propped

Risk of damage to parts if vehicle topples

- Prop the vehicle securely.

⚠ 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

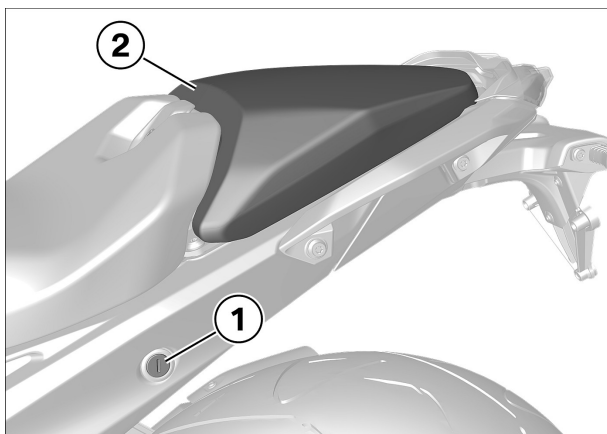
Once the retrofit kit has been installed by the workshop, these installation instructions must be handed over to the customer.

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

77 52 008 Installing the navigation system preparation

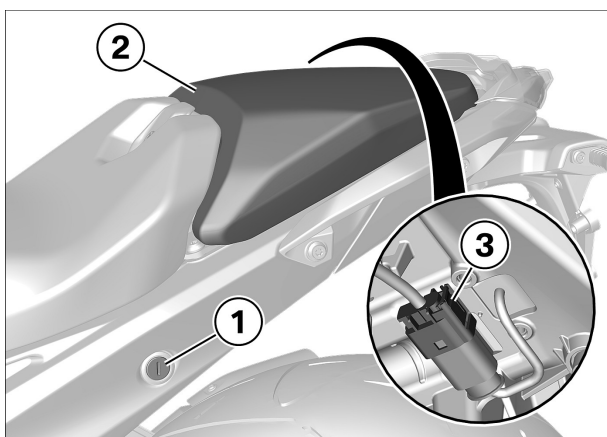
Additional work: 46 52 510 Mounting and dismounting the rear-wheel stand with special tools (for motorbikes without a centre stand)

1



► Removing passenger seat

- Unlock seat lock **(1)**.
- Remove passenger seat **(2)**.

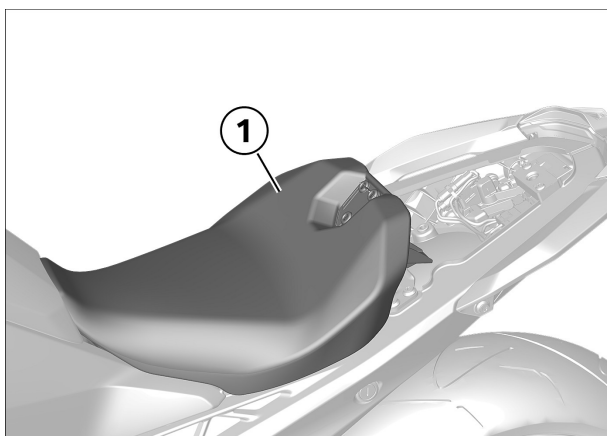


with seat heating^{OE} (0518)

- Unlock seat lock **(1)**.
 - Loosen passenger seat **(2)**.
- Do not put strain on cable for seat heating!
- Disconnect connector **(3)** for seat heating and remove passenger seat.

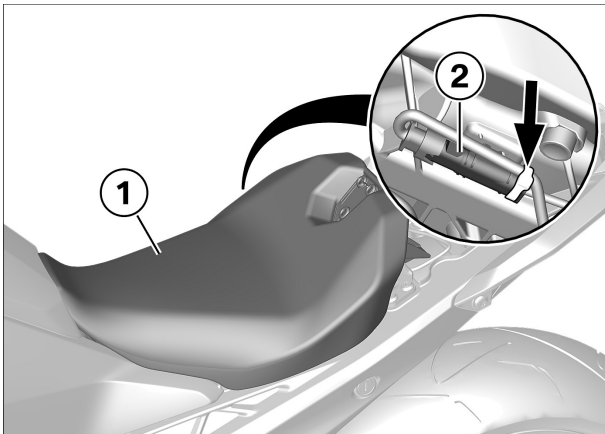
Do not twist or put strain on socket!◇

2



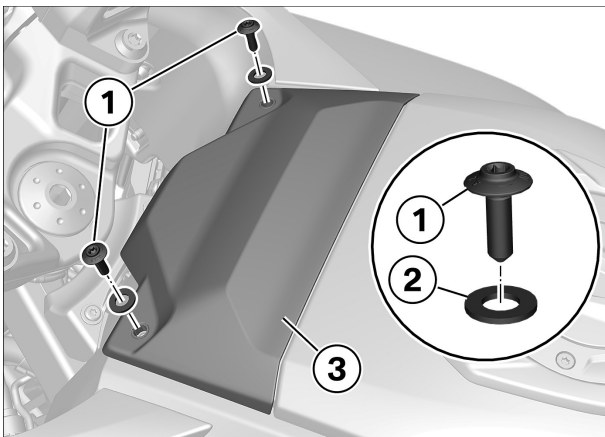
► Removing rider's seat

- Remove rider's seat **(1)**.



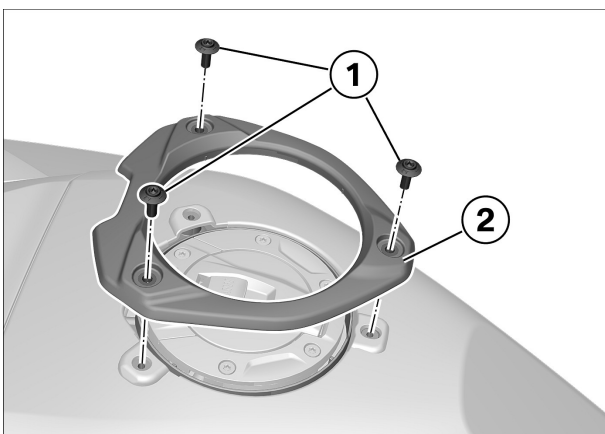
- with seat heating^{OE} (0518)
- Carefully remove rider's seat **(1)**.
 - Remove cable strap **(arrow)**.
 - Disconnect connector **(2)** for seat heating.
Do not twist or put strain on socket!◇

3

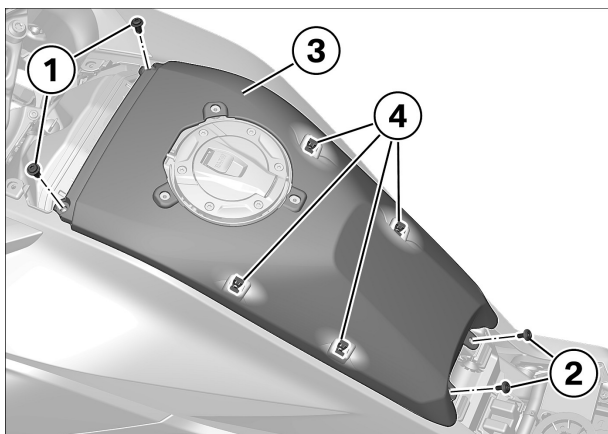


- **Removing front tank cover**
- Remove screws **(1)** and washers **(2)**.
 - Remove tank cover **(3)**.

4

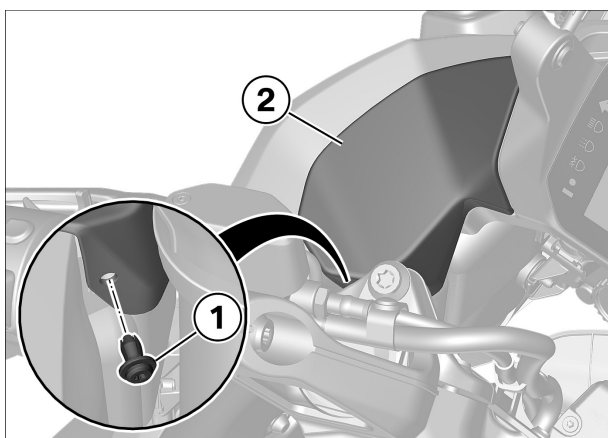


- **Removing centre fuel-tank cover**
- Remove screws **(1)**.
 - Remove fuel filler cap **(2)**.



- Remove expanding rivet **(1)** and screws **(2)**.
- Loosen tank cover **(3)** out of clip clamps **(4)** and remove.

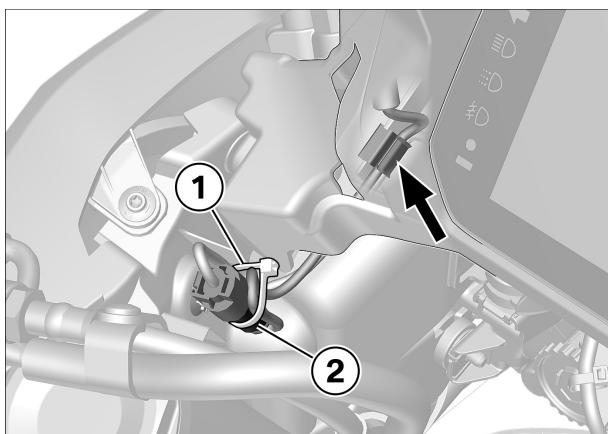
5



► Removing left inboard cover

- Remove expanding rivet **(1)**.
- Remove inner cover **(2)**.

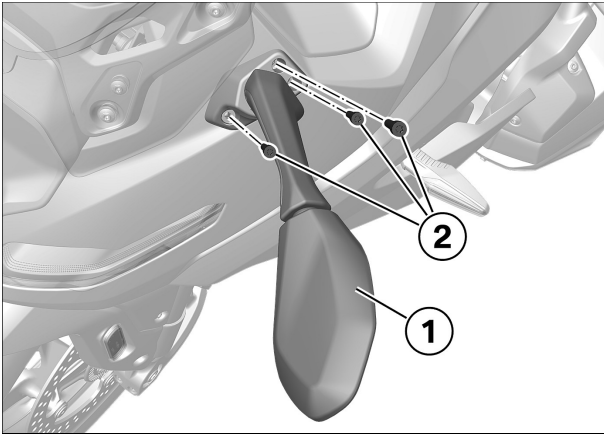
6



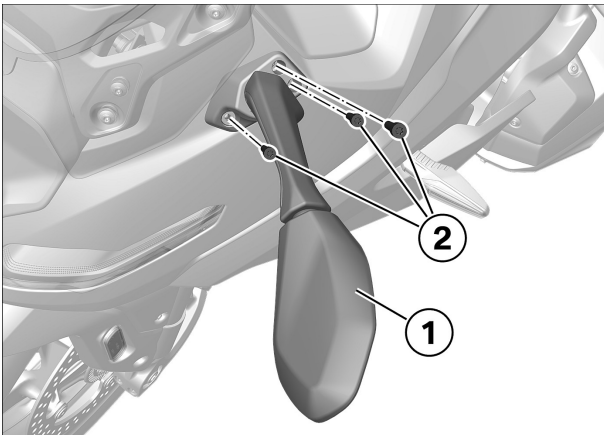
► Removing left mirror

with Riding Assistant^{OE} (05AS)

- Remove cable strap **(1)**.
- Loosen connector **(2)** and disconnect.
- Release the cable **(arrow)**.◇



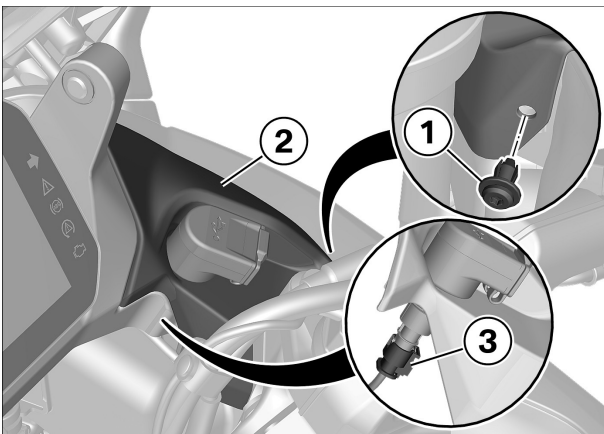
- Swivel mirror **(1)** to the front.
- Remove screws **(2)** and remove mirror **(1)**.



with Riding Assistant^{OE} (05AS)

- Swivel mirror **(1)** to the front.
- Remove screws **(2)** and remove mirror **(1)**, while threading out the cable.◇

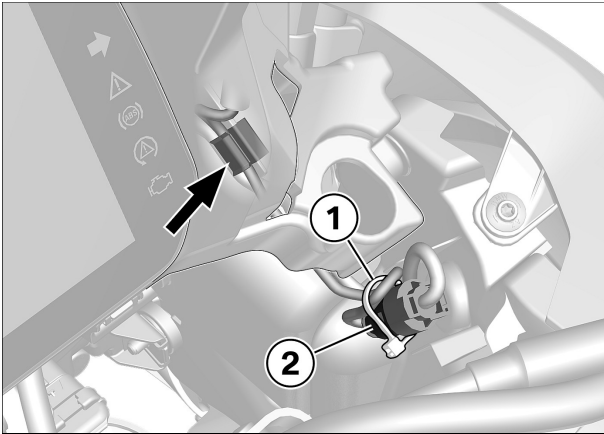
7



► Removing right inner trim

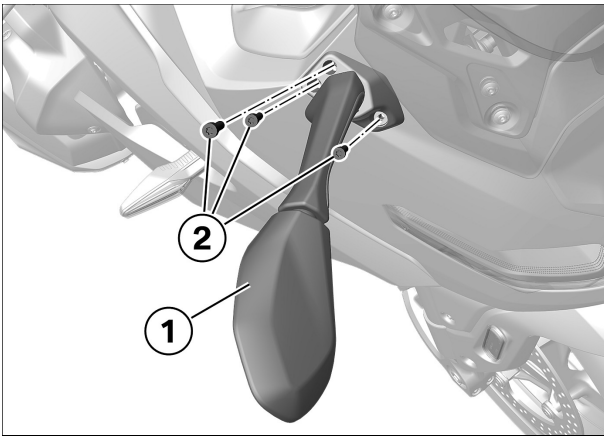
- Remove expanding rivet **(1)**.
- Loosen inner cover **(2)**.
- Disconnect connector **(3)** for socket.

8

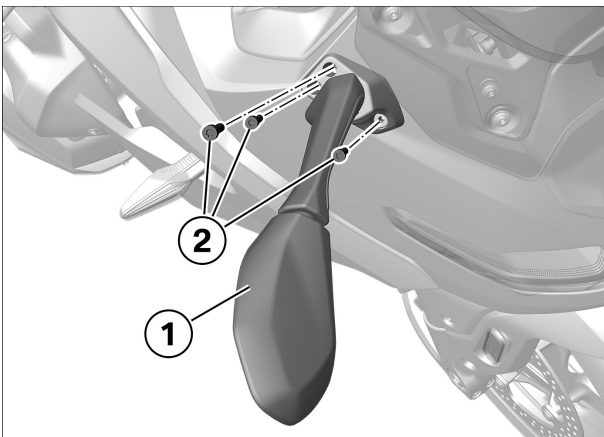
► **Removing right mirror**

with Riding Assistant^{OE} (05AS)

- Remove cable strap **(1)**.
- Loosen connector **(2)** and disconnect.
- Release the cable **(arrow)**.◇



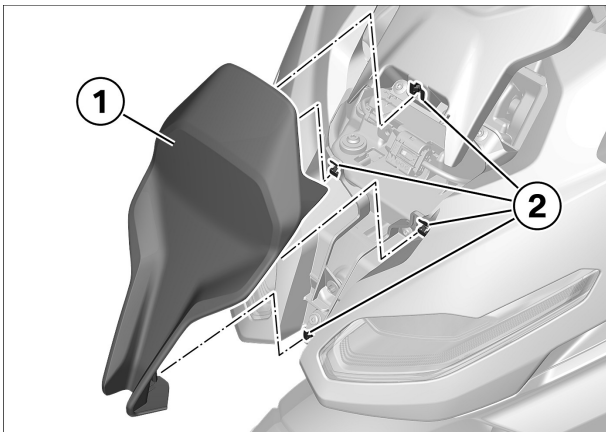
- Swivel mirror **(1)** to the front.
- Remove screws **(2)** and remove mirror **(1)**.



with Riding Assistant^{OE} (05AS)

- Swivel mirror **(1)** to the front.
- Remove screws **(2)** and remove mirror **(1)**, while threading out the cable.◇

9

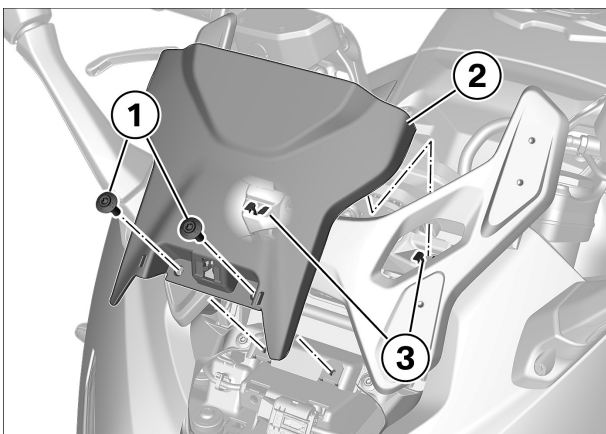


► Removing front trim

- Loosen trim (1) from clip clamps (2) and remove it.



10



► Removing cover for windscreen adjuster

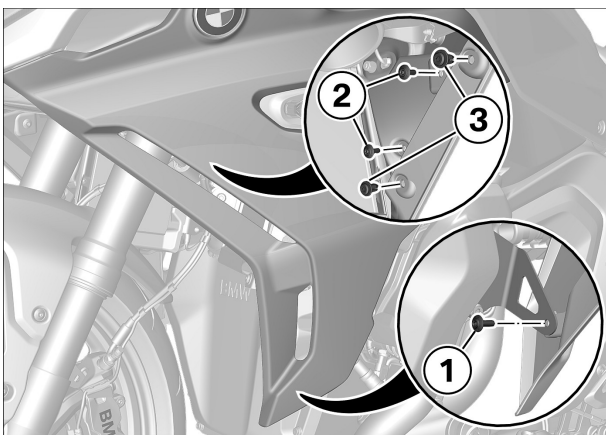
Requirement

Windscreen adjuster is raised.

- Raise windscreen adjuster, if necessary.
- Remove screws (1).
- Loosen cover (2) from clip clamps (3) and remove it.

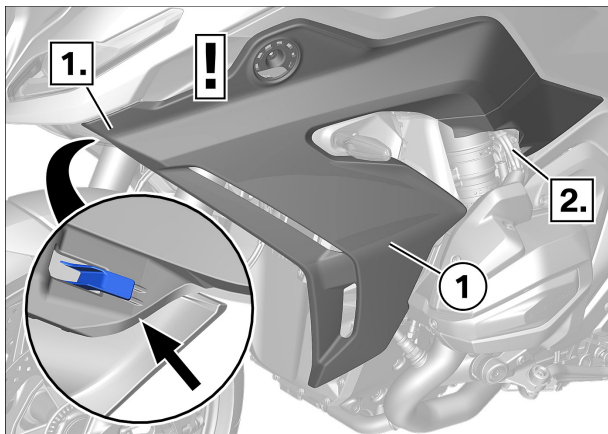


11

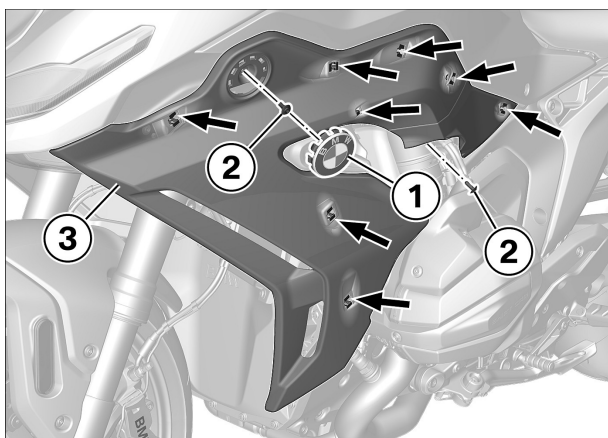


► Removing left side panel

- Remove screw (1).
- Remove screws (2) and expanding rivets (3).

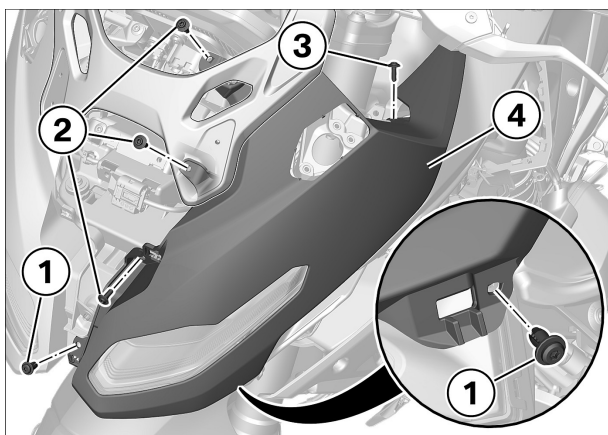


- During removal, note:
 - When loosening fairing side panel **(1)**, pay attention to hook **(arrow)**.
- Press on the fairing side panel, then remove it at the rear first.**



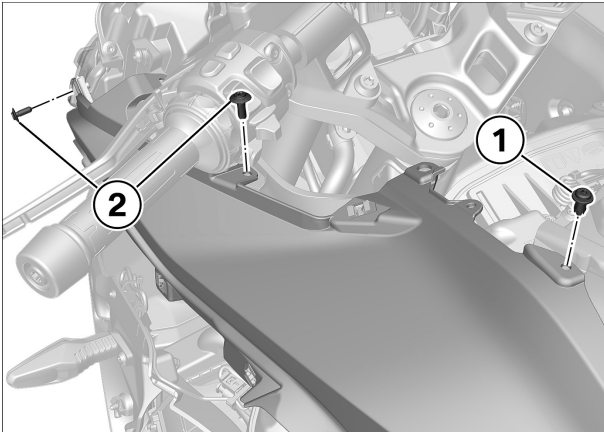
- Remove badge **(1)**.
Lever off carefully using plastic tool.
- Remove screws **(2)**.
- Loosen fairing side panel **(3)** from clip clamps **(arrows)** and remove it.

12



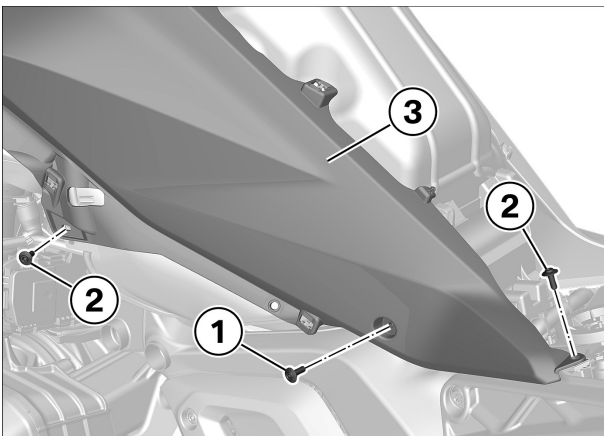
- **Removing left front trim panel**
- Remove expanding rivets **(1)** and screws **(2)**.
 - Remove screw **(3)**.
 - Loosen and remove front trim panel **(4)**.

13



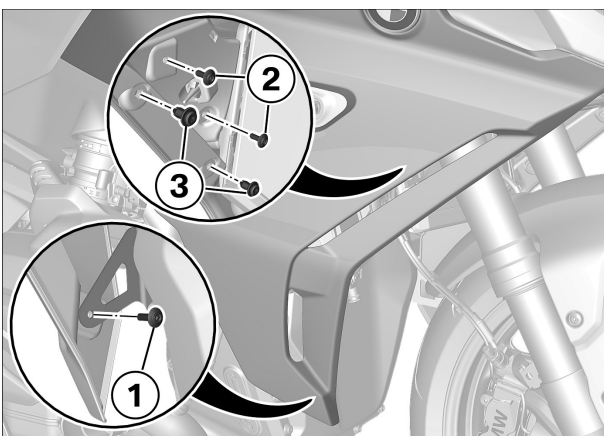
► Removing left fuel-tank cover

- Remove expanding rivet **(1)** and screws **(2)**.



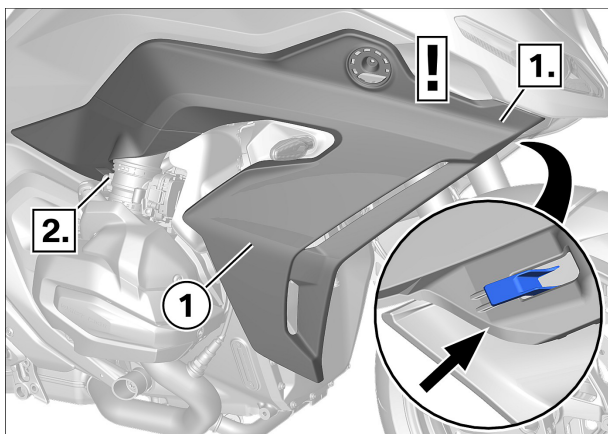
- Remove screws **(1)** and **(2)**.
- Loosen and remove tank covers **(3)**.

14

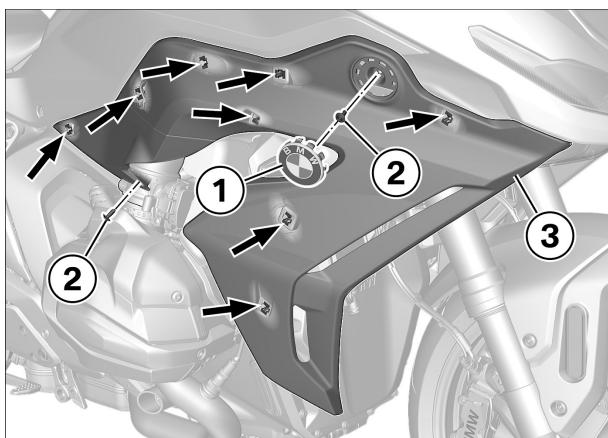


► Removing right side panel

- Remove screw **(1)**.
- Remove screws **(2)** and expanding rivets **(3)**.

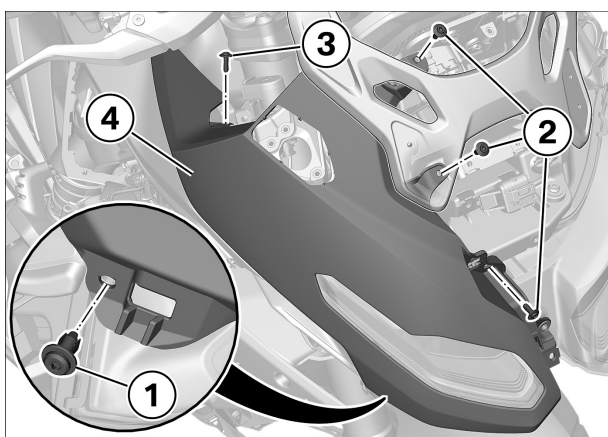


- During removal, note:
 - When loosening fairing side panel (1), pay attention to hook (arrow).
- Press on the fairing side panel, then remove it at the rear first.**



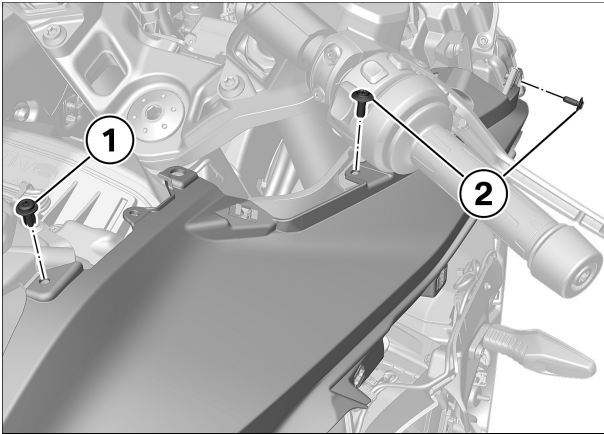
- Remove badge (1).
Lever off carefully using plastic tool.
- Remove screws (2).
- Loosen fairing side panel (3) from clip clamps (arrows) and remove it.

15

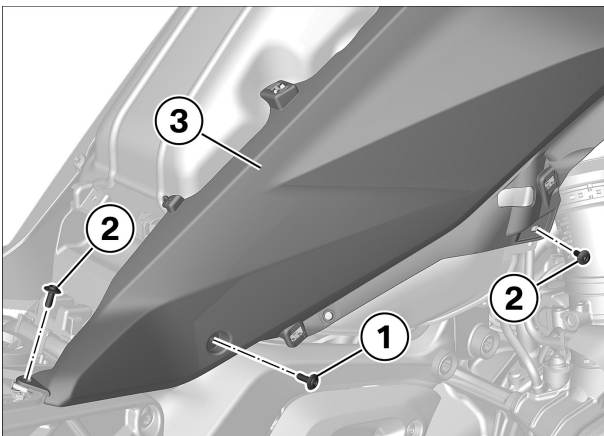


- **Removing right front trim panel**
- Remove expanding rivet (1) and screws (2).
 - Remove screw (3).
 - Loosen and remove front trim panel (4).

16

▶ **Removing right fuel-tank cover**

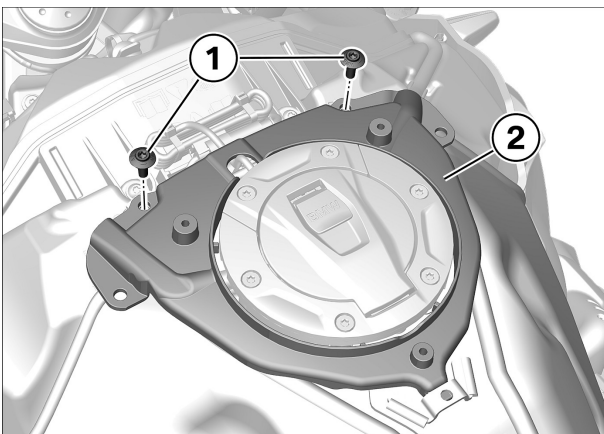
- Remove expanding rivet **(1)** and screws **(2)**.



- Remove screws **(1)** and **(2)**.
- Loosen and remove tank covers **(3)**.



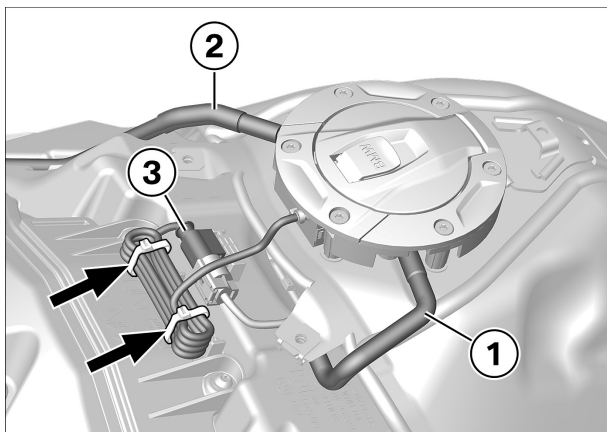
17

▶ **Removing fuel tank adapter ring**

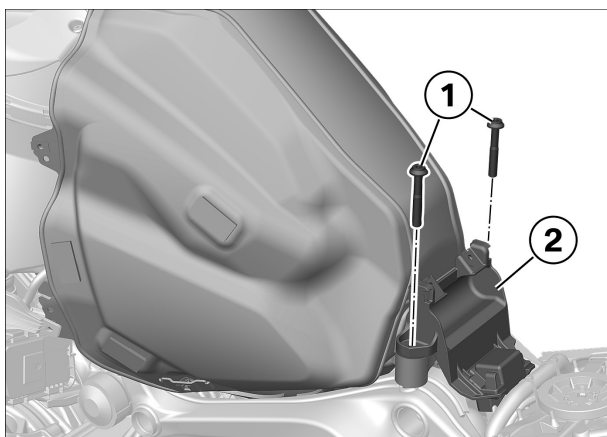
- Remove screws **(1)**.
- Remove adapter ring **(2)**.



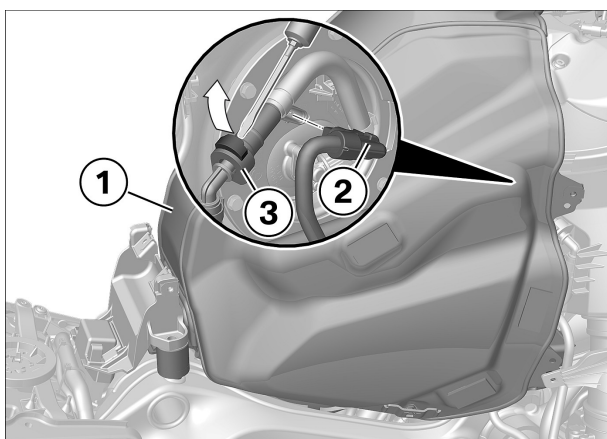
18

► **Removing fuel tank**

- Disconnect overflow hose **(1)**.
- Disconnect vent hose **(2)**.
- Remove the cable straps **(arrows)**.
- Disconnect connector **(3)** for fuel filler cap and loosen.



- Remove screws **(1)** and loosen tank holder **(2)**.



- Pull fuel tank **(1)** slightly.
- Disconnect connector **(2)** for fuel pump.

⚠ WARNING

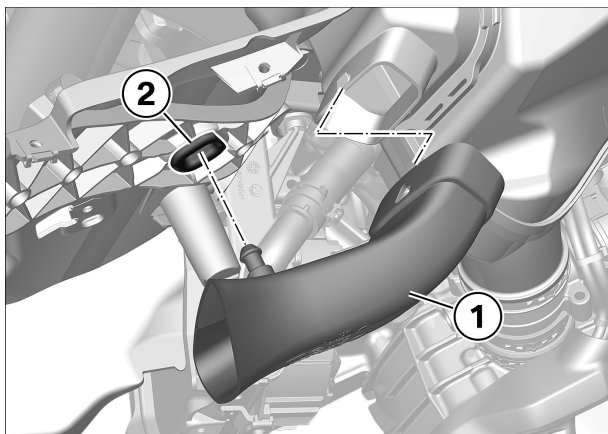
Fuel is highly flammable and hazardous to health

Risk of fire, risk of damage to health

- Comply with the safety regulations.

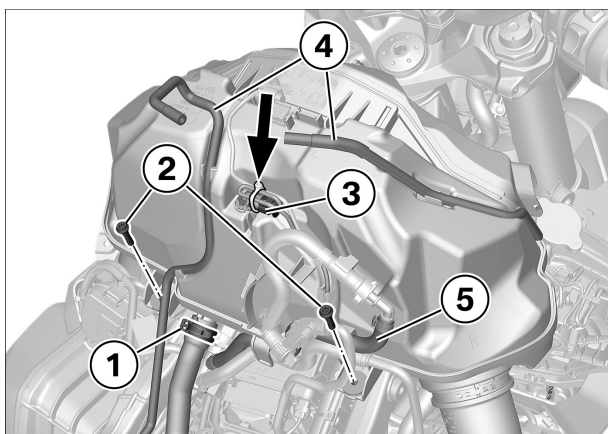
- Disconnect quick-release coupling **(3)**.
Carefully raise lock with screwdriver.
Employ suitable means to catch escaping fuel.
- Remove fuel tank **(1)**.

19

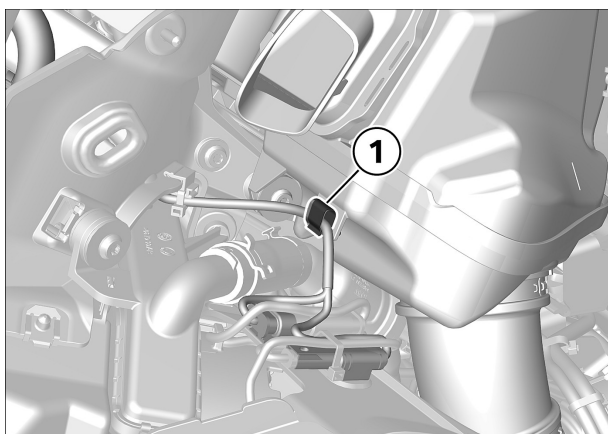
► **Remove left and right intake snorkel**

- Loosen intake snorkel (1) from rubber grommet (2) and remove.
- Remove right intake snorkel in the same way.

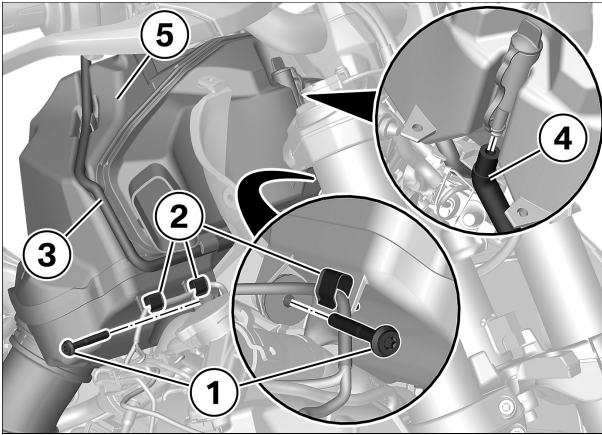
20

► **Removing intake air silencer**

- Loosen clamp (1) with pliers (17 5 571) and pull off vent hose.
- Remove screws (2).
- Disconnect connector (3) for temperature sensor.
- Remove cable strap (arrow).
- Loosen hoses (4) and line (5).

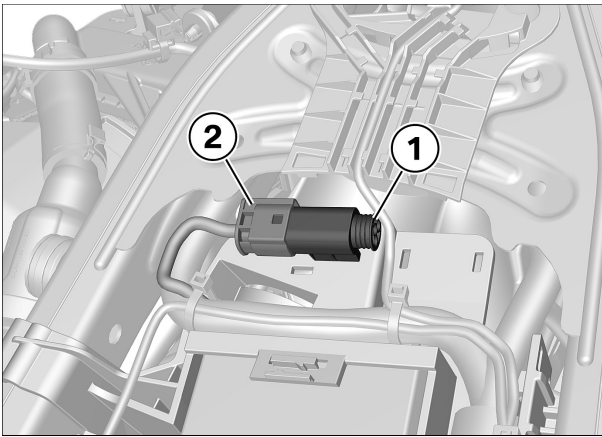


- Loosen cable from cable clamp (1).



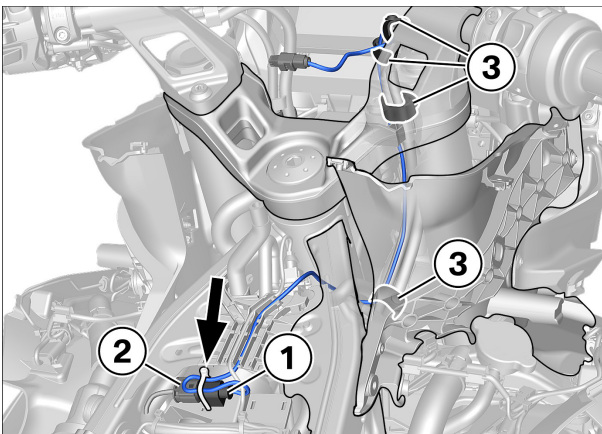
- Remove screws **(1)**.
- Loosen cable from cable clamps **(2)**.
- Loosen vent hose **(3)**.
- Loosen coolant hose **(4)**.
- Loosen intake silencer **(5)** from throttle valves and remove.

21



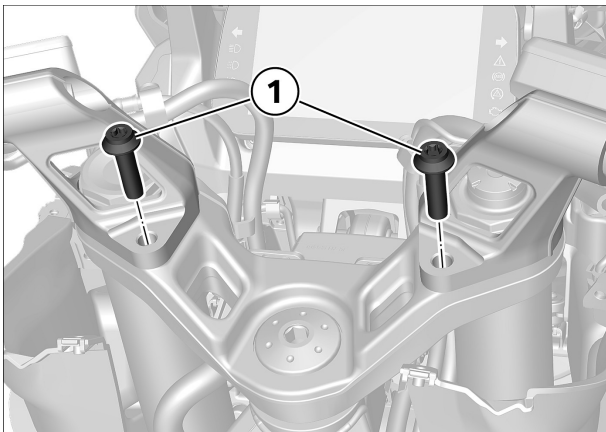
► Routing auxiliary cable

- Remove blind cap **(1)**.
- Disconnect connector **(2)** from blind cap **(1)**.



- Connect connector **(1)** and **(2)**.
- Route the cable and secure it with rubber straps **(3)** and cable strap **(arrow)**.

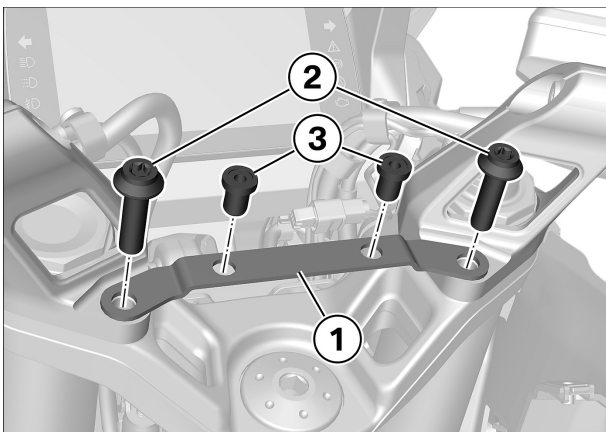
22



► **Removing handlebars**


- Remove screws (1).

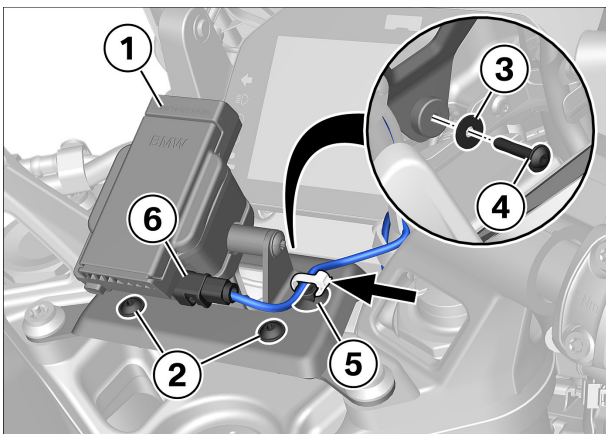
23




► **Installing preparation for navigation system**

- Align retaining plate (1).
- Install screws (2) and buffers (3).

 Tightening torques		
Holder to handlebars		
M10×35	38 Nm	

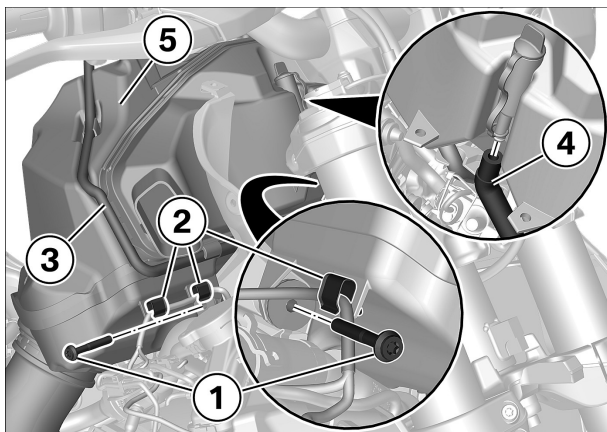


- Position preparation for navigation system (1).
- Install screws (2).
- Install washer (3) and screw (4).

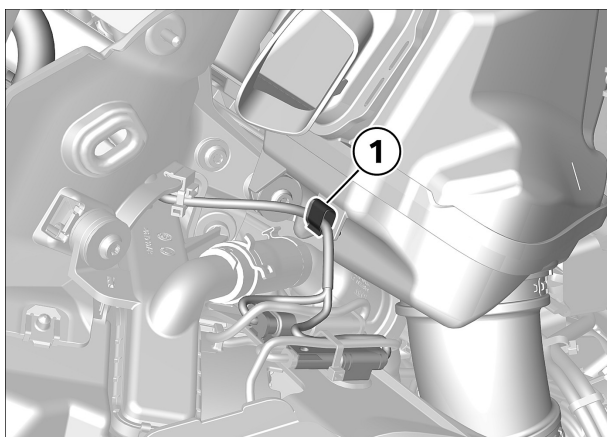
 Tightening torques		
Holder to fork bridge		
M5×25	5 Nm	

- Install holder (5).
- Connect connector (6) and secure cable with cable strap (arrow).

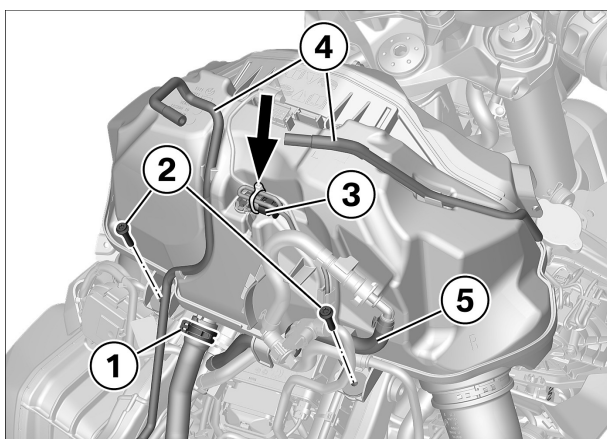
24

► **Install the intake air silencer**

- Press intake silencer **(5)** onto throttle valves.
Ensure that no hoses or lines are pinched.
- Secure cable in cable clamps **(2)**.
- Secure vent hose **(3)**.
- Push on coolant hose **(4)**.
- Install screws **(1)**.
M6 x 40

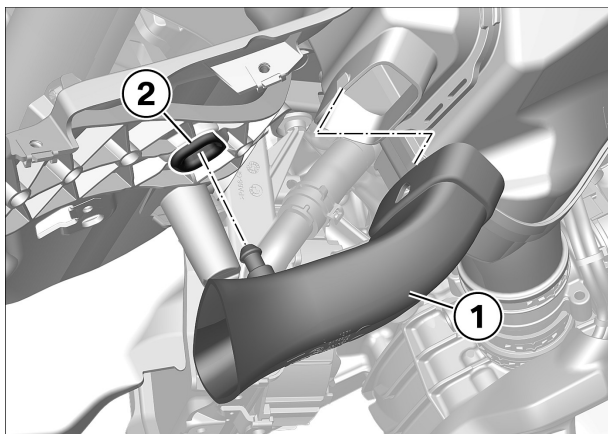


- Secure cable in cable clamp **(1)**.



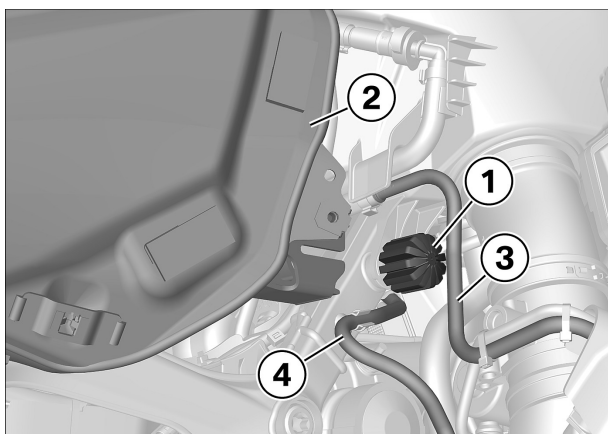
- Install screws **(2)**.
M6 x 25
- Connect connector **(3)** for temperature sensor.
- Install cable strap **(arrow)**.
- Secure hoses **(4)** and line **(5)**.
- Slide on vent hose and secure clamp **(1)** with pliers (17 5 571).

25

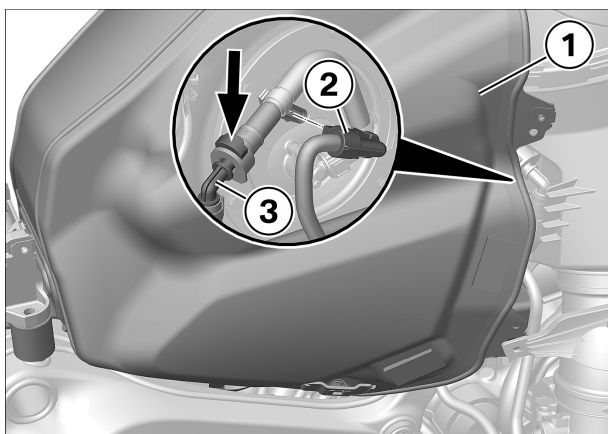
► **Installing left and right intake air pipes**

- Install intake snorkel (1) and secure in rubber grommet (2).
- Install right intake snorkel in the same way.

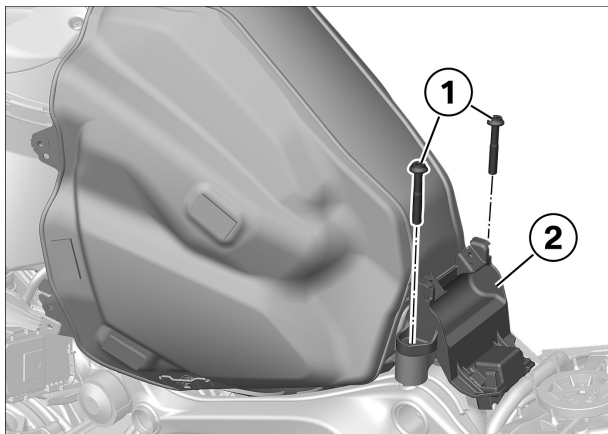
26

► **Installing fuel tank**

- When installing fuel tank (2), note rubber mounts (1), lines (3) and wiring harness (4).

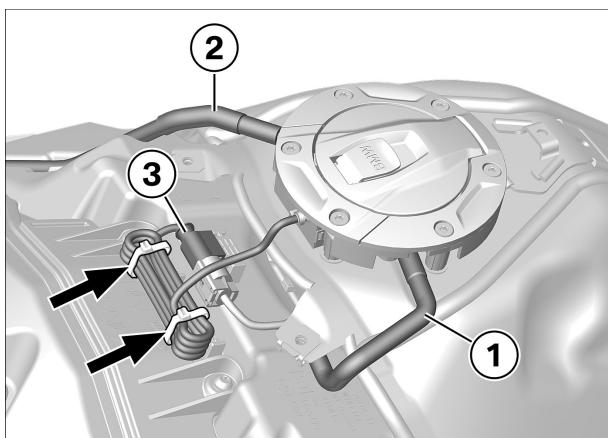


- Position fuel tank (1).
- Connect connector (2).
- Press fuel pressure line (3) into bush with a little effort.
Press in lock (**arrow**).
Check pressure line for tight fit.



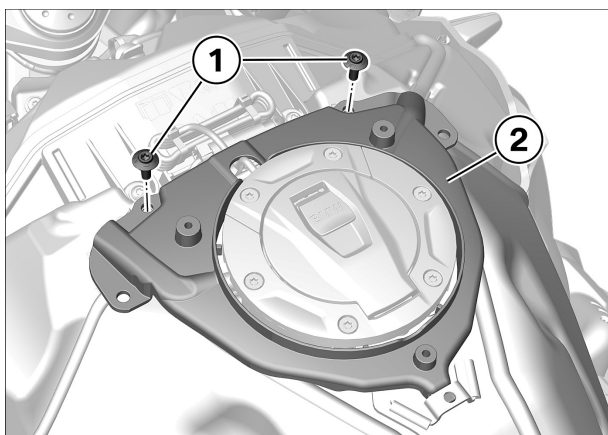
- Position tank holder (2) and install screws (1).

Tightening torques		
Fuel tank to frame		
M8 x 50	19 Nm	



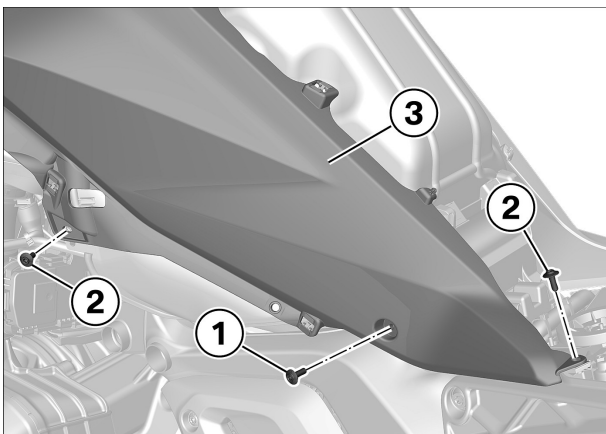
- Secure and connect connector (3) for the fuel filler cap.
- Route and secure cables (arrows).
- Connect overflow hose (1).
- Connect vent hose (2).

27



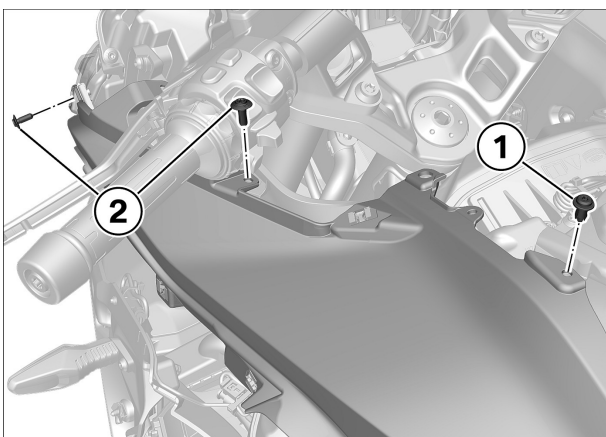
- **Installing fuel tank adapter ring**
 - Install adapter ring (2) and screws (1).

28



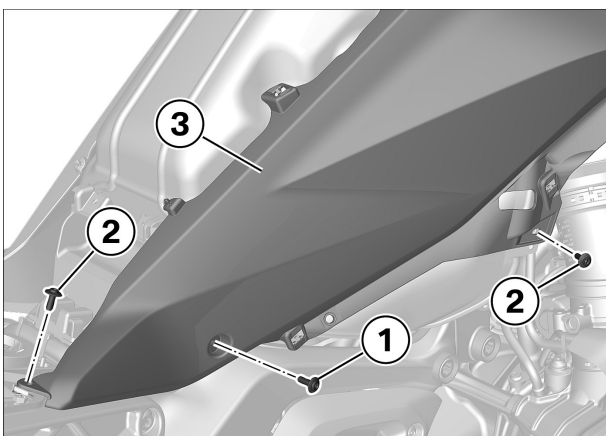
► Installing left fuel-tank cover

- Aligning the tank cover (3)
- Install screw (1) and (2).



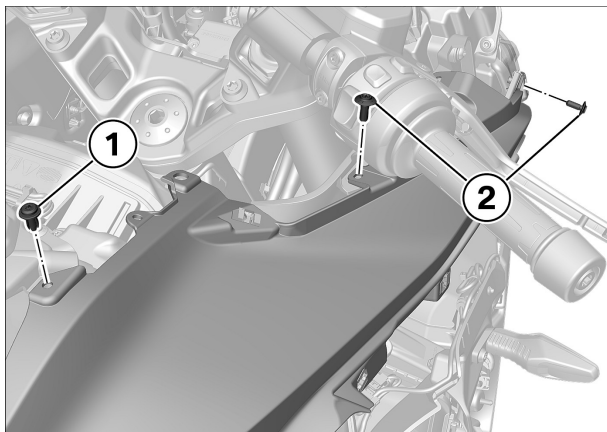
- Install expanding rivet (1) and screws (2).

29



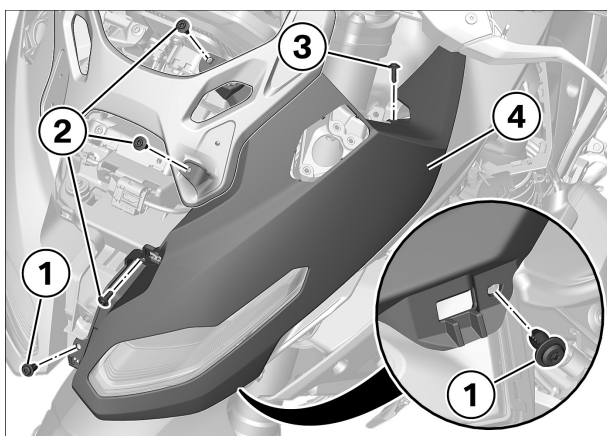
► Installing right fuel-tank cover

- Aligning the tank cover (3)
- Install screw (1) and (2).



- Install expanding rivet **(1)** and screws **(2)**.

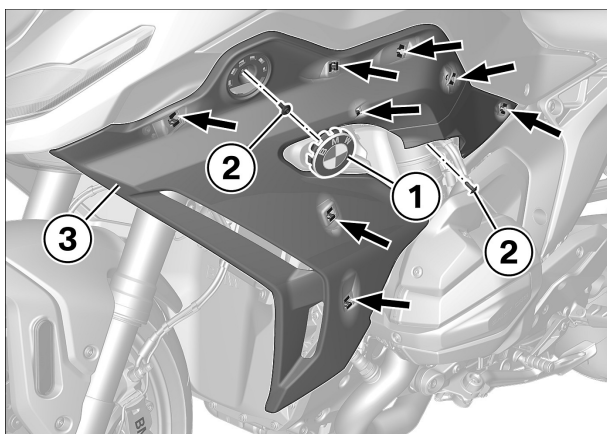
30



► Installing left front-fairing panel

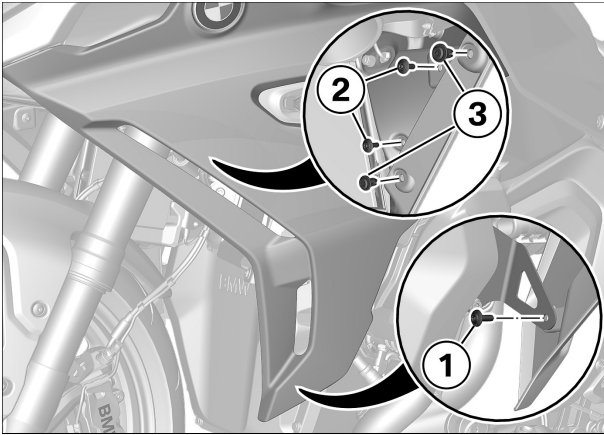
- Align and secure front trim panel **(4)**.
- Install screw **(3)**.
- Install expanding rivets **(1)** and screws **(2)**.

31



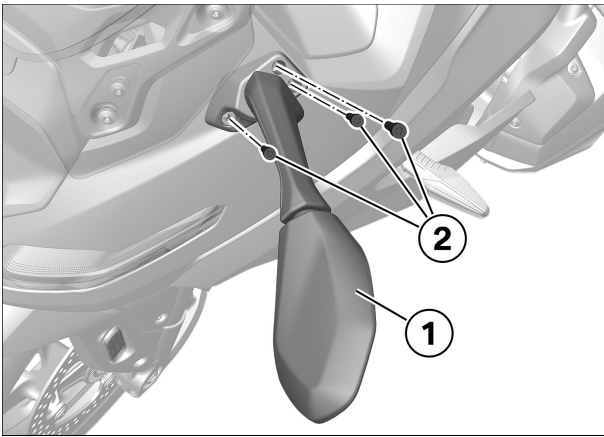
► Installing left side panel

- Align fairing side panel **(3)** and secure in clip clamps **(arrows)**.
- Install screws **(2)**.
- Install badge **(1)**.



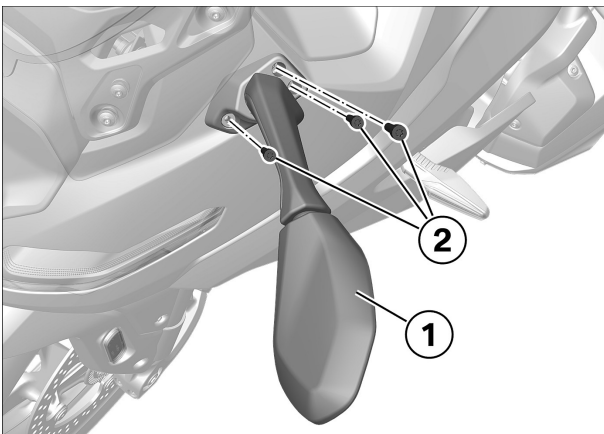
- Install screw **(1)**.
- Install expanding rivets **(2)** and screws **(3)**.

32

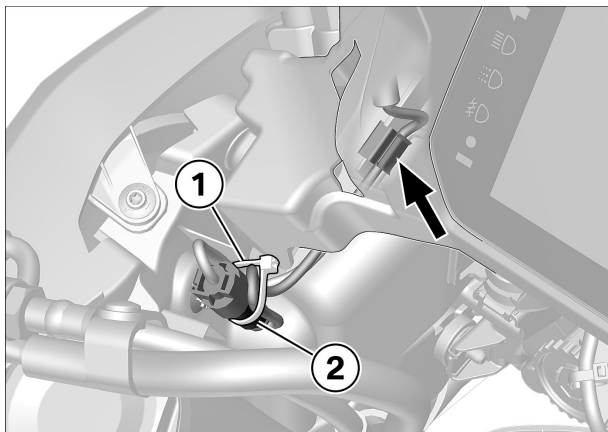


► Installing left mirror

- Position mirror **(1)**.
- Install screws **(2)**.

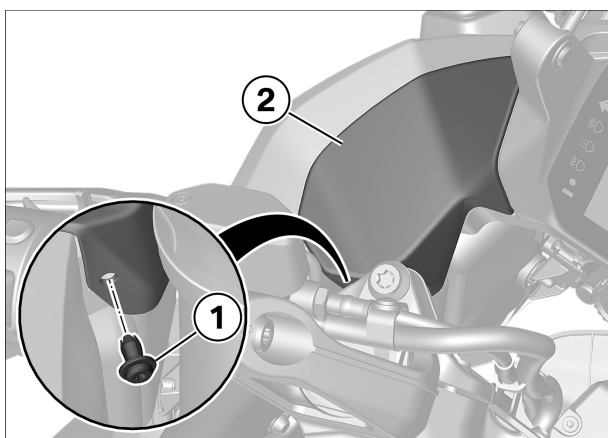


- with Riding Assistant^{OE} (05AS)
- Align mirror **(1)**, while routing cable.
- Install screws **(2)**.◇



- with Riding Assistant^{OE} (05AS)
- Connect connector **(2)** and secure.
 - Secure cable **(arrow)**.
 - Install cable strap **(1)**.◇

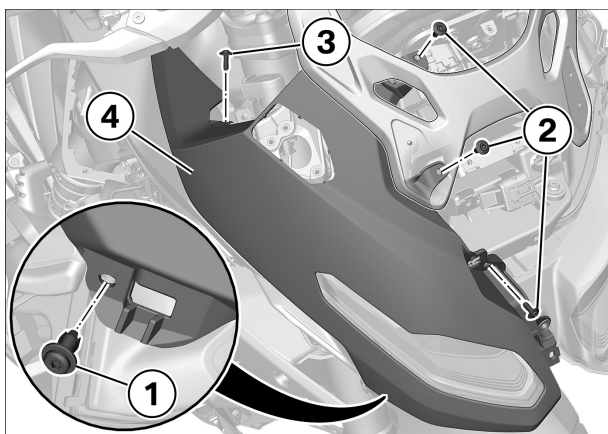
33



► Installing left inboard cover

- Install inner cover **(2)**.
- Install expanding rivet **(1)**.

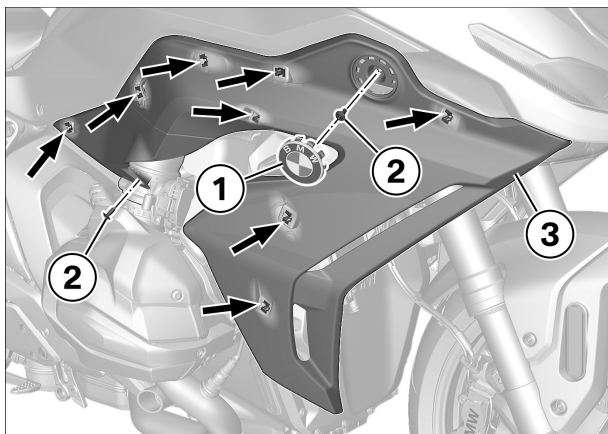
34



► Installing right front-fairing panel

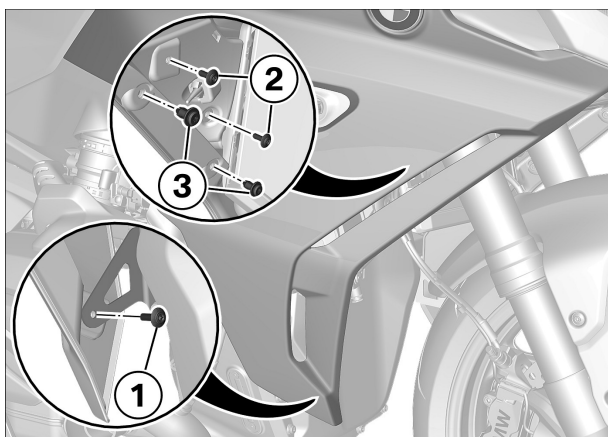
- Align and secure front trim panel **(4)**.
- Install screw **(3)**.
- Install expanding rivet **(1)** and screws **(2)**.

35



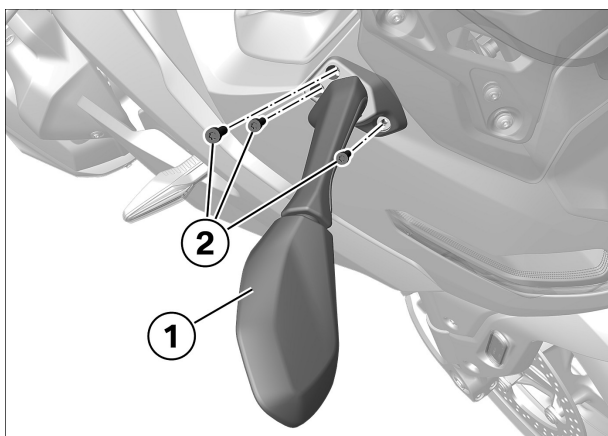
► Installing right side panel

- Align fairing side panel (3) and secure in clip clamps (arrows).
- Install screws (2).
- Install badge (1).



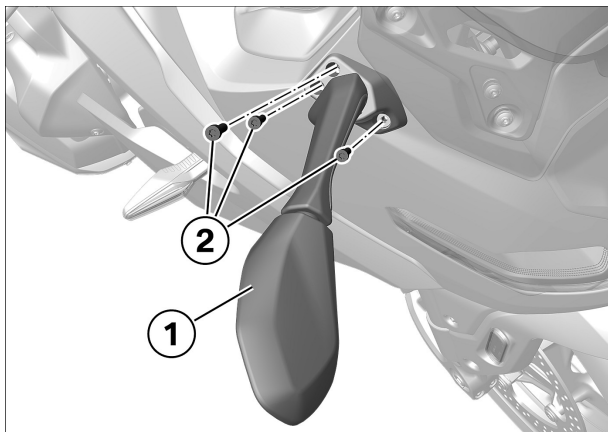
- Install screw (1).
- Install expanding rivets (2) and screws (3).

36

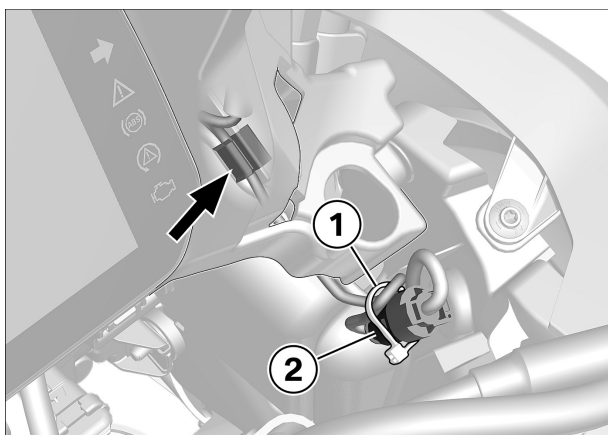


► Installing right mirror

- Position mirror (1).
- Install screws (2).

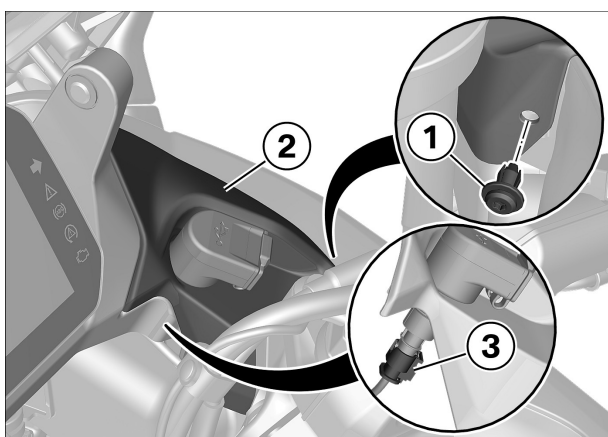


- with Riding Assistant^{OE} (05AS)
- Align mirror **(1)**, while routing cable.
 - Install screws **(2)**.◇



- with Riding Assistant^{OE} (05AS)
- Connect connector **(2)** and secure.
 - Secure cable **(arrow)**.
 - Install cable strap **(1)**.◇

37



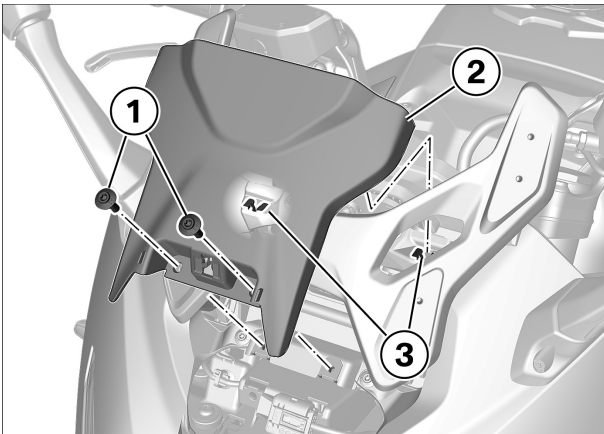
- **Installing right inner trim**
- Position inner trim **(2)** and connect connector **(3)**.
 - Install expanding rivet **(1)**.

38

- **Install the cover for windscreen adjuster**

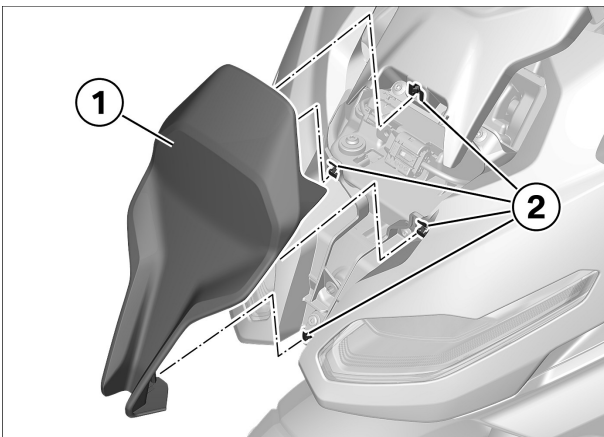
Requirement

Windscreen adjuster is raised.



- Raise windscreen adjuster, if necessary.
- Align cover **(2)** and secure in clip clamps **(3)**.
- Install screws **(1)**.

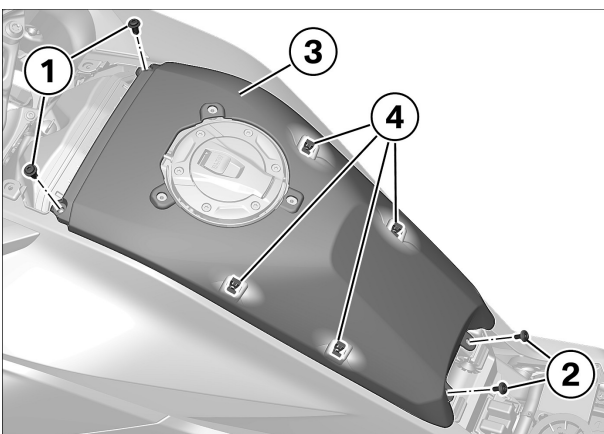
39



► Installing front trim

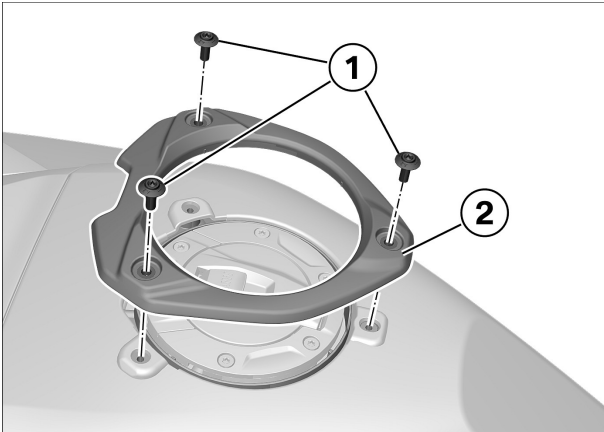
- Secure trim **(1)** in clip clamps **(2)**.

40



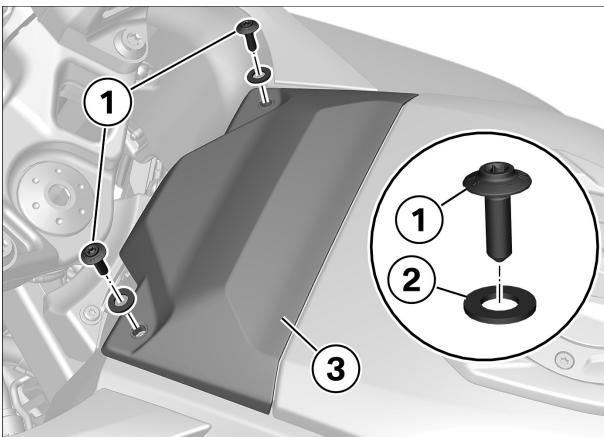
► Installing centre tank cover

- Position tank cover **(3)** and secure in clip clamps **(4)**.
- Install expanding rivets **(1)** and screws **(2)**.



- Secure fuel filler cap (2) with screws (3).

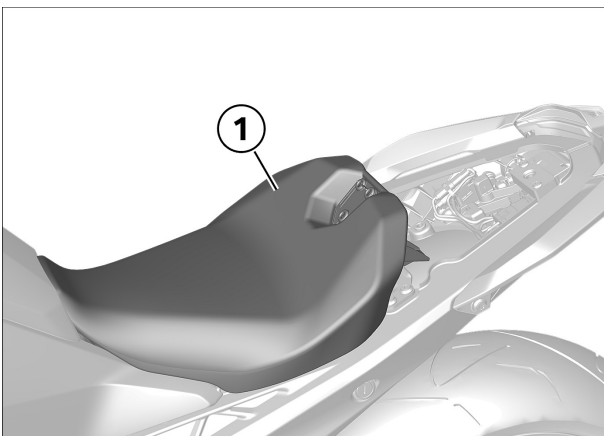
41



► Installing front tank cover

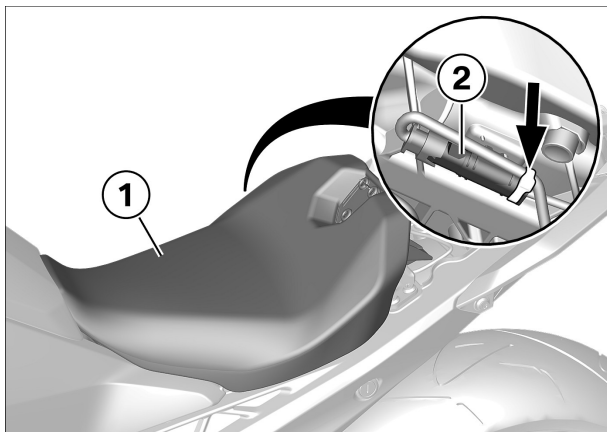
- Position tank cover (2).
- Install screws (1) and washers (2).

42



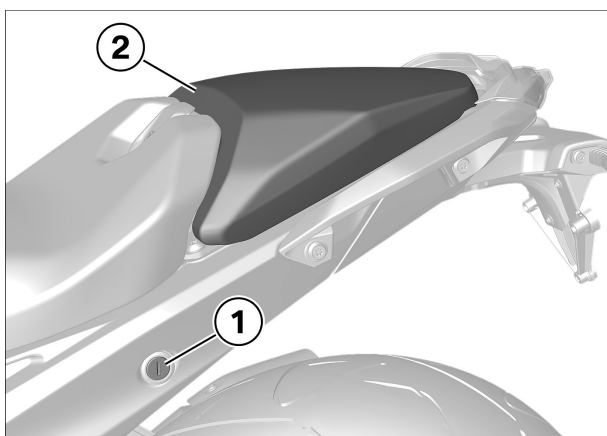
► Installing rider's seat

- Attach rider's seat (1).
- » Inserting rubber buffer into bearing support



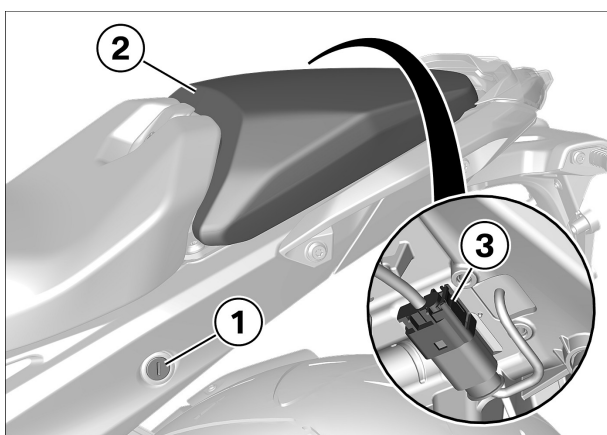
- with seat heating^{OE} (0518)
- Connect connector **(2)** for seat heating.
- Install cable strap **(arrow)**.
- Attach rider's seat **(1)**.
- » Inserting rubber buffer into bearing support◇

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► Installing passenger seat

- Secure passenger seat **(2)** in hooks and secure lock.
- Firmly press down passenger seat **(2)** at rear.
- » The passenger seat engages with an audible click.
- Remove key from lock **(1)**.



- with seat heating^{OE} (0518)
- Connect passenger seat **(2)** with connector **(3)** for seat heating.
- Secure passenger seat **(2)** in hooks and secure lock.
- Firmly press down passenger seat **(2)** at rear.
- » The passenger seat engages with an audible click.
- Remove key from lock **(1)**.◇

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► Final inspection of completed work

- Ensure the following:
 - The objective of the completed work was achieved.
 - All operating fluids have been filled in and the fluids are at the correct fill level.

All loosened screw connections have been retightened correctly.

The fuel system is free of leaks.

The lighting and signal system is functional and the vehicle is roadworthy.

The brake pads of the front and rear wheel brakes are resting against the brake disks.

▷ **Function test, engine start suppression**

Check

- Set kill switch to centred position.
- 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.
- Pull the clutch lever.
- Press the starter button.
- » Starter does **not** operate.
- Retract the side stand.
- 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.

with automated shift assistant^{OE} (022A)

Check

- Set kill switch to centred position.
- Switch on the ignition.
- » Neutral position N or rollaway prevention P lights up.
- **Neutral position N lights up.**
- Press the starter button.
- » Starter operates.
- **Rollaway prevention P lights up.**
- Press the starter button.
- » Starter motor not working.
- Apply brake **and** press starter button.
- » Starter operates.
- **Engine running, gear engaged.**
- Extend the side stand.
- » Engine stops, rollaway prevention P lights up.
- **Engine running, neutral position N lights up**
- Extend the side stand.

» Gear change not possible.

Result

Not all test steps completed successfully.

Measure

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

