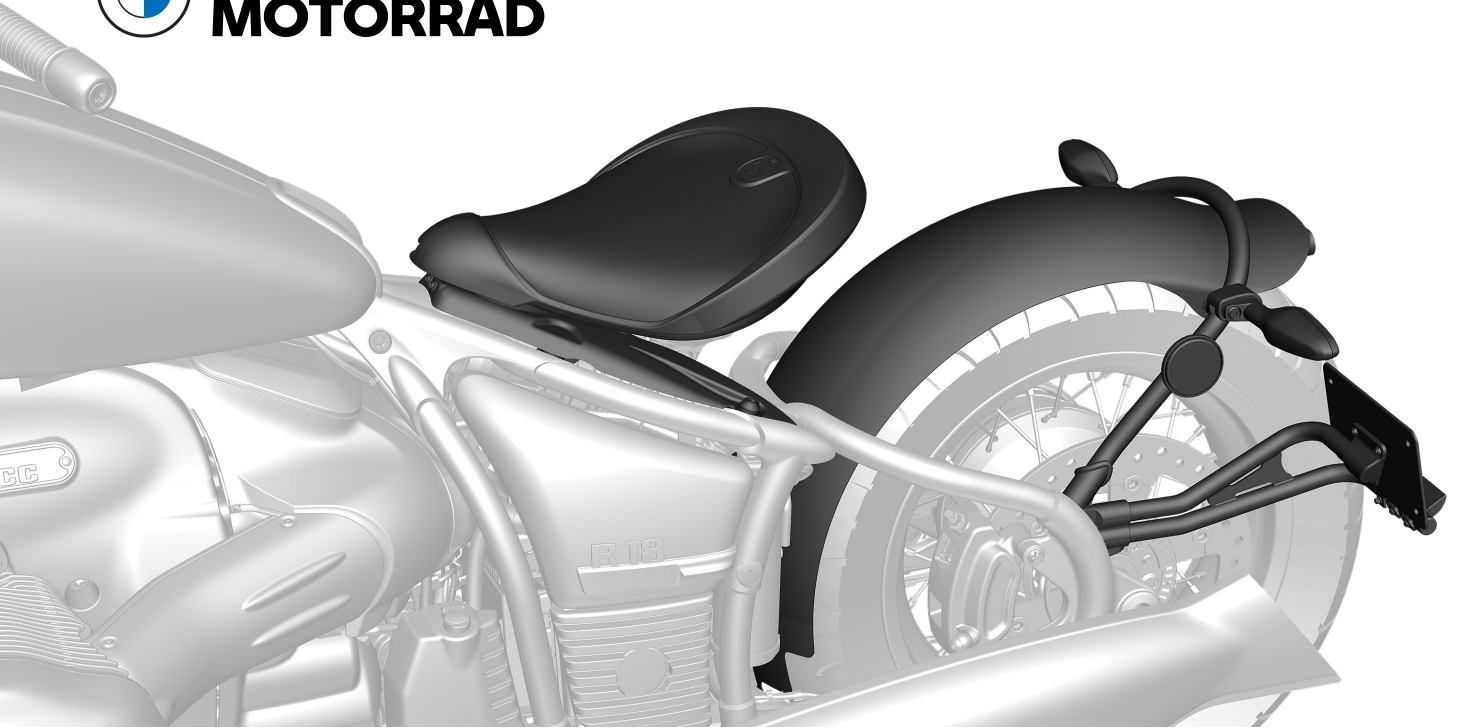




**BMW  
MOTORRAD**



Installation instructions

# **BOBBER KIT**

**MAKE LIFE A RIDE**

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**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.

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**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.

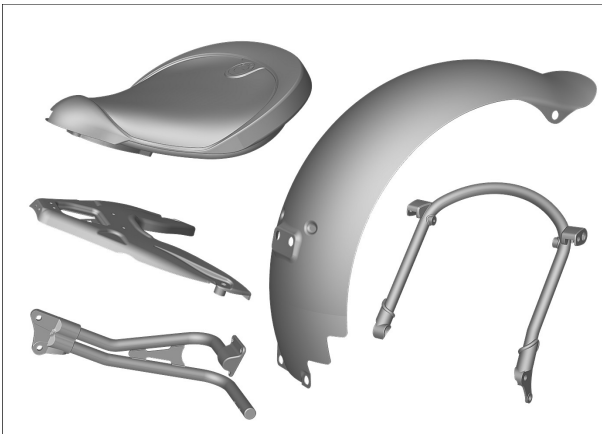
- ◀ End of the main activity
- ◁ End of the secondary activity
- ◇ End of validity designation CS (construction status), OE (optional extra) or OA (optional accessory)

All rights reserved.

## Bobber kit

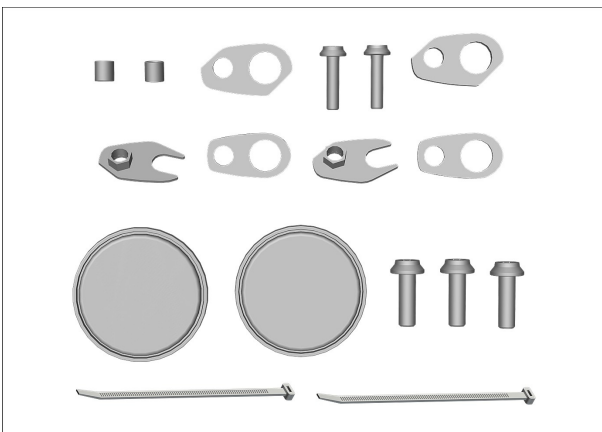
### Requisite tools

- Torx wrench set
- Torque wrench
- Hexagon socket wrench set
- Phillips screwdriver
- Wedges (36 5 521)  
Order No.: 83 30 2 152 983
- Insulation strippers (61 0 511)  
Order No.: 83 30 2 221 122
- Handle (61 4 342)  
Order No.: 83 30 0 496 849
- Crimping head (61 4 343)  
Order No.: 83 30 0 496 850
- Crane  
Order No.: 83 30 0 402 300



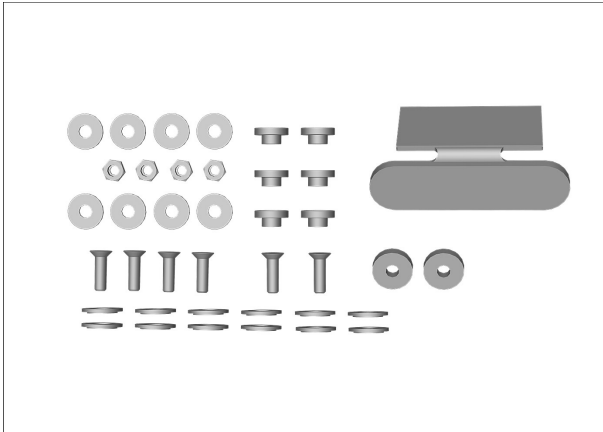
### Delivery specification

- Side number plate carrier
- Hommage single seat
- Bobber rear-wheel cover
- Single seat mounting plate
- Bobber retaining bracket



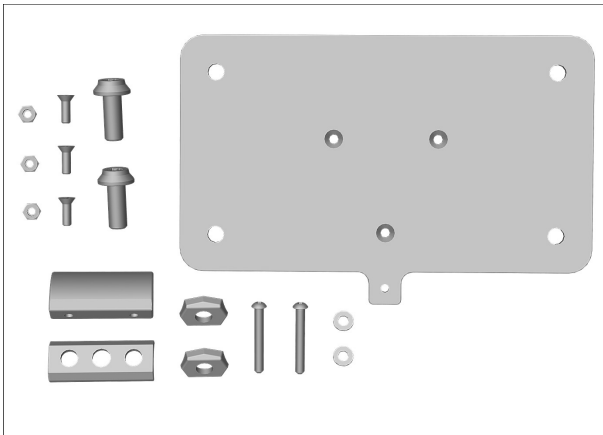
### Retaining bracket mounting material set

- |                        |   |
|------------------------|---|
| - Decoupler outer      | 2 |
| - Lock washer with nut | 2 |
| - Decoupler inner      | 2 |
| - Spacing bushing      | 2 |
| - Torx screw M6×20     | 2 |
| - Torx screw M8×25     | 3 |
| - Cable tie            | 2 |
| - Side reflector       | 2 |



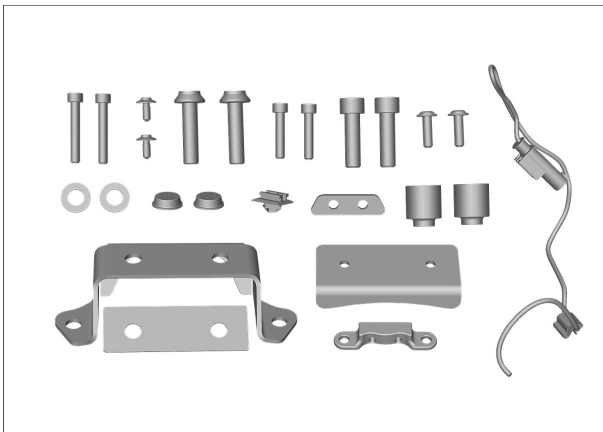
**Rear-wheel cover mounting material set**

- Guide bushing 6
- Hexagon socket bolt M6×20 2
- Hexagon socket bolt M6×25 4
- Washer 4
- Nut 4
- Fender double-up 12
- Washer 4
- Spacing bushing 2
- Rear reflector



**Number plate carrier mounting material set**

- Pipe connection, single hole 2
- Number plate light
- Pipe connection, multi-hole
- Hexagon socket bolt M4×30 2
- Washer 2
- Cross-head screw M4×14 3
- Nut 3
- Torx screw M8×20 2
- Number plate carrier plate



**Single seat mounting plate mounting material set**

- Hexagon socket bolt M6×40 2
- Torx screw M5×12 2
- Torx screw M10×40 2
- Washer 2
- Hexagon socket bolt M6×30 2
- Elastic buffer 2
- Hexagon socket bolt M10×35 2
- Torx screw M6×20 2
- Holder for plug connection
- Support bridge
- Reinforcement plate 2
- EPDM damper element

- Support bush 2
- Thread-in bridge
- Connecting cable

## General instructions

### 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

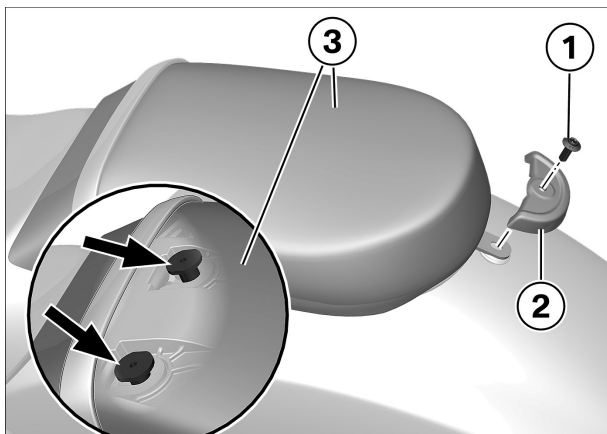
Once the retrofit kit has been installed by the workshop, these installation instructions must be handed over to the customer.

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

## 77 31 039 Installing bobber kit (US version)

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

**1**



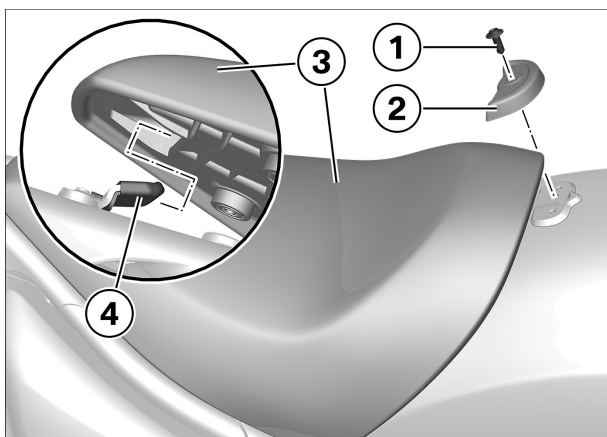
– with two-up riding package<sup>OE</sup> (0413)

► **Removing passenger seat**

- Remove bolts (1) and cover (2).
- Pull rider's seat (3) to the rear from retaining lugs (Arrows) and remove.◇

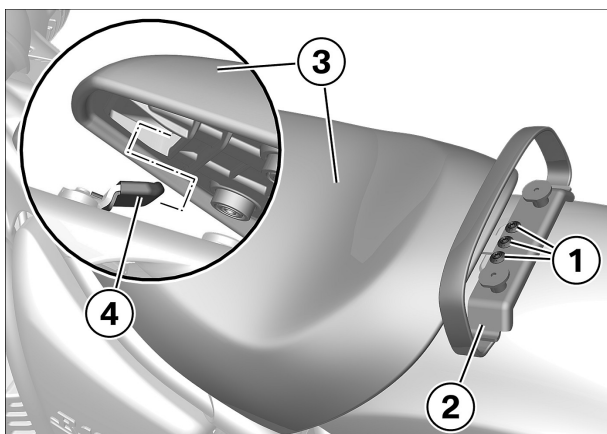


**2**



► **Removing rider's seat**

- Remove bolts (1) and cover (2).
- Disengage rider's seat (3) from retaining lug (4) and remove.



– with two-up riding package<sup>OE</sup> (0413)

- Remove bolts (1) and retaining bracket (2).
- Disengage rider's seat (3) from retaining lug (4) and remove.◇



**3**

▶ **Removing number plate**

- Remove number plate .

**4**

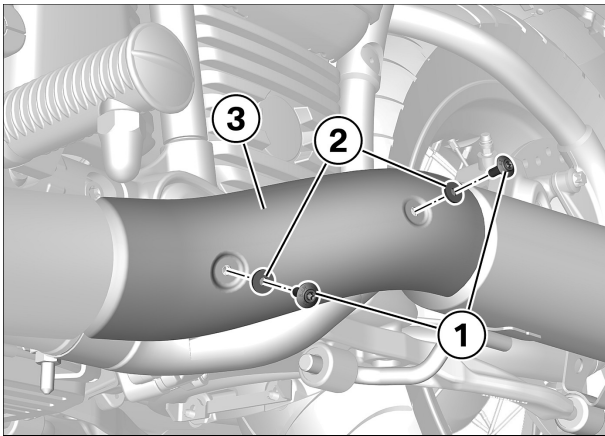
▶ **Removing left silencer**

**⚠ CAUTION**

**Hot exhaust system**

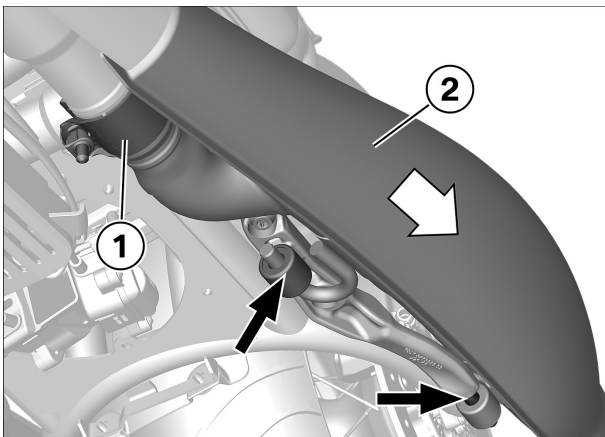
Risk of burn injury

- Do not touch a hot exhaust system.



– with design option rear silencer<sup>OE</sup> (19FA)

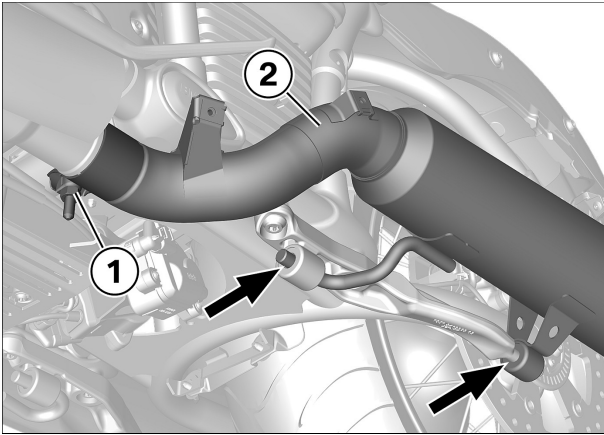
- Remove screws **(1)** with washers **(2)**.
- Remove trim **(3)**.◇



- Slacken clamp **(1)**.

- Loosen silencer **(2)** to the rear from holder **(arrows)** and take off.





- with design option rear silencer<sup>OE</sup> (19FA)
- Slacken clamp **(1)**.
- Loosen silencer **(2)** to the rear from holder **(arrows)** and take off.◇

## 5

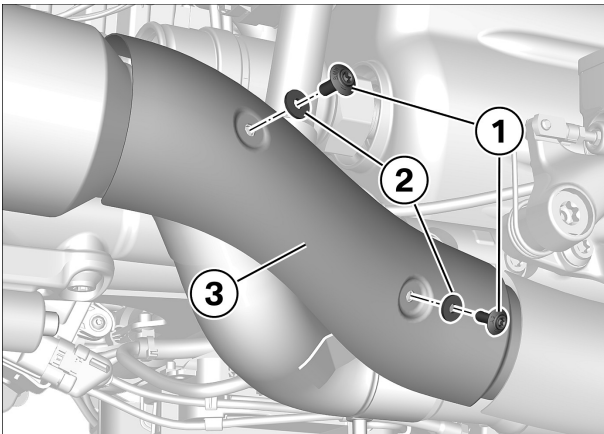
### ► Removing right silencer

#### ⚠ CAUTION

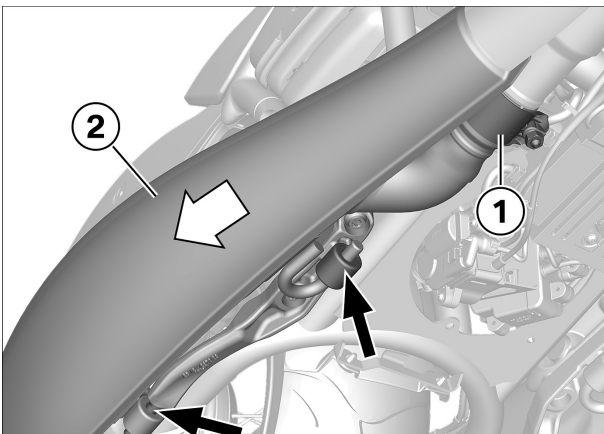
##### Hot exhaust system

Risk of burn injury

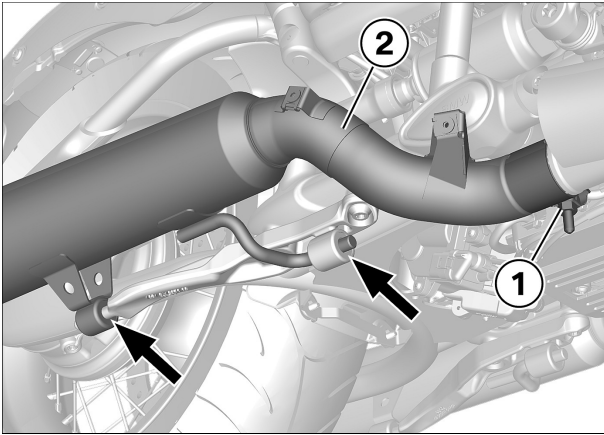
- Do not touch a hot exhaust system.



- with design option rear silencer<sup>OE</sup> (19FA)
- Remove screws **(1)** with washers **(2)**.
- Remove trim **(3)**.◇



- Slacken clamp **(1)**.
- Loosen silencer **(2)** to the rear from holder **(arrows)** and take off.

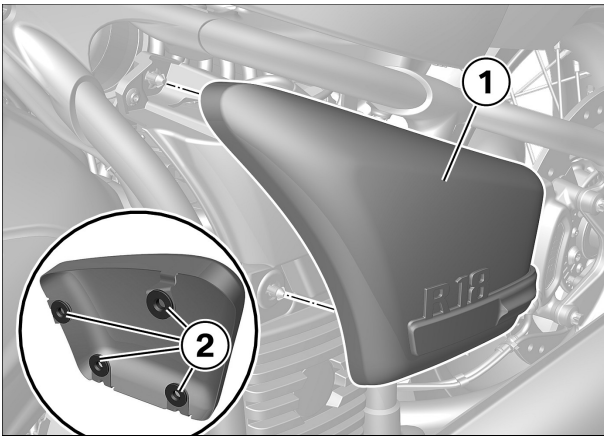


– with design option rear silencer<sup>OE</sup> (19FA)

- Slacken clamp **(1)**.
- Loosen silencer **(2)** to the rear from holder **(arrows)** and take off.◇



## 6

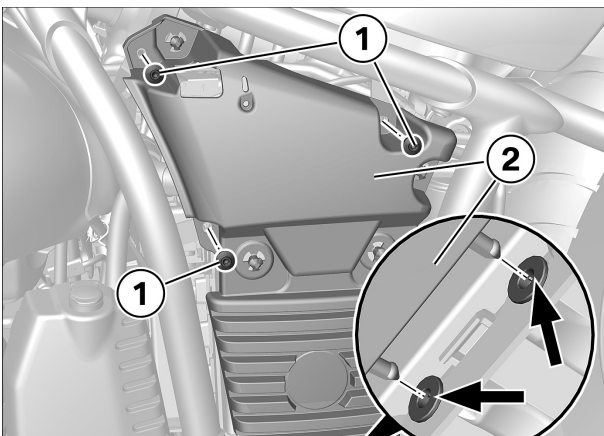


### ► Removing left side cap

- Pull off side cover **(1)** with rubber grommets **(2)** and remove.



## 7

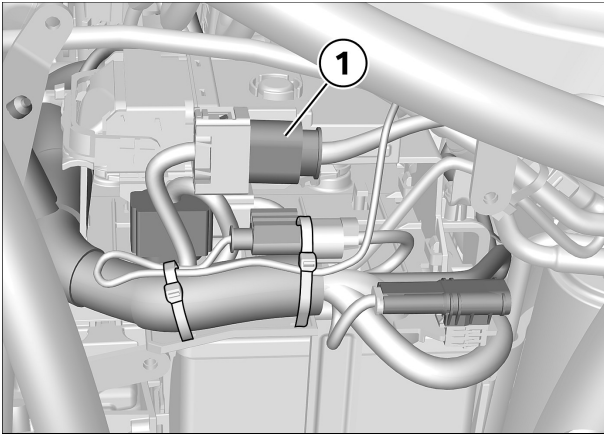


### ► Remove support for left side cover

- Remove screws **(1)**.
- Detach support **(2)** at bottom **(Arrows)** and remove.

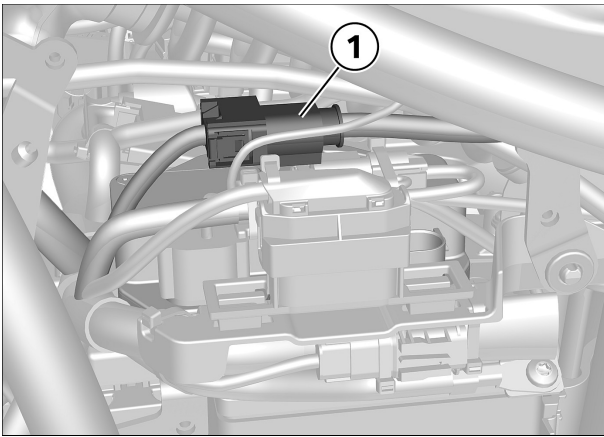


8



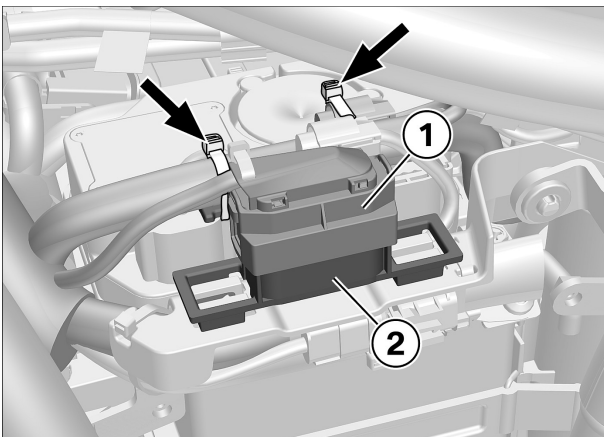
► **Removing rear frame complete with wheel cover**

- Disconnect connector **(1)** for rear lights.



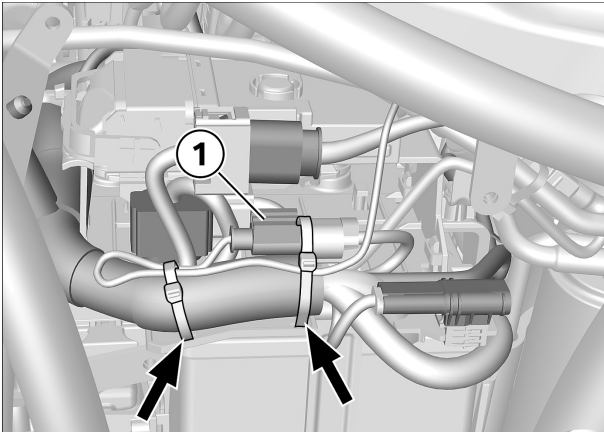
– as of build level March 2021<sup>CST</sup>

- Disconnect connector **(1)** for rear lights.◇

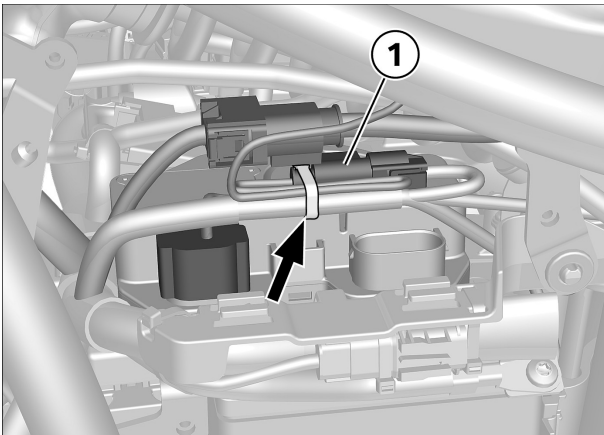


– as of build level March 2021<sup>CST</sup>

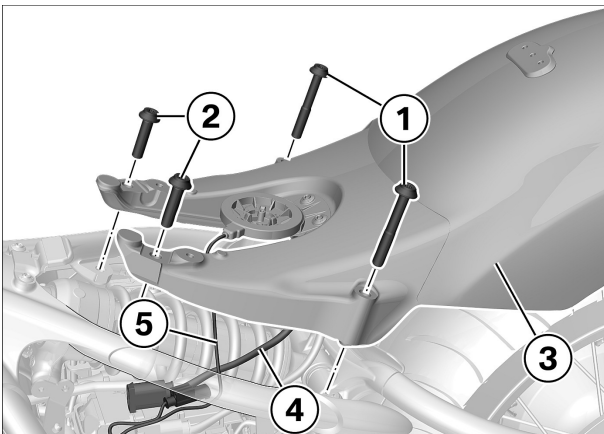
- Remove the cable straps **(arrows)**.
- Disconnect diagnostic socket **(1)** and remove holder **(2)**.◇



- Remove the cable strap (**arrows**).
- Disconnect connector **(1)** for audio frequency aerial .



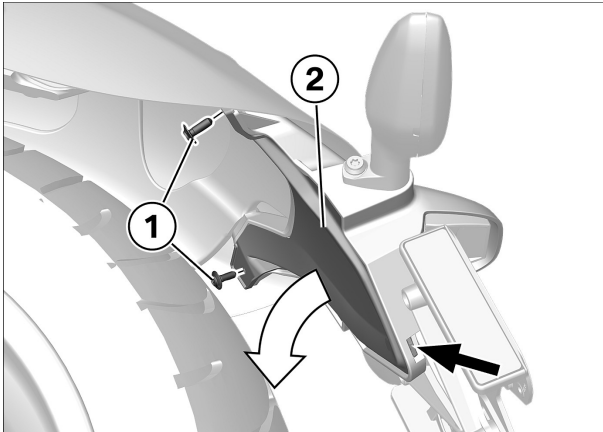
- as of build level March 2021<sup>CST</sup>
- Remove cable strap (**arrow**).
- Disconnect connector **(1)** for audio frequency aerial .◇



- Remove screws **(1)**.
- Remove screws **(2)**, supporting the rear of the rear frame **(3)**.
- Remove the rear frame **(3)** assembly with the rear-wheel cover. Disconnect the cable **(4)** for the rear lights and the cable **(5)** for the AF aerial.
- » AF aerial can remain on rear-wheel cover, a new AF aerial is integrated in the solo seat.



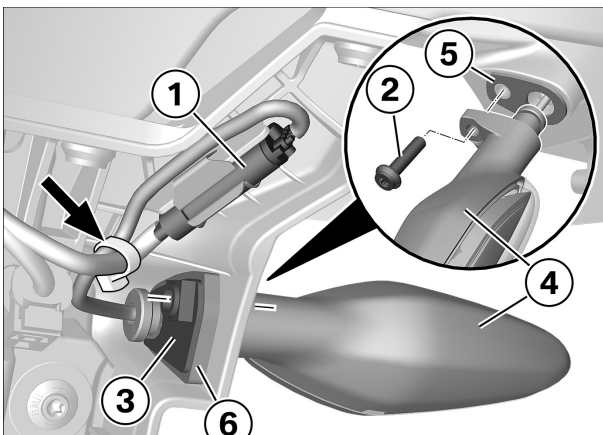
9



► **Removing cover for number-plate carrier**

- Remove screws (1).
- Pivot cover (2) down and unhook (Arrow).

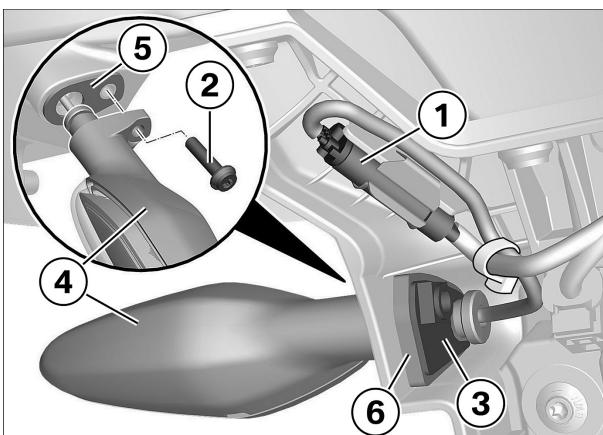
10



► **Removing left multifunctional turn indicator**

- Remove cable strap (arrow).
- Loosen connector (1) for left LED turn indicator and disconnect.
- Remove screw (2) and take off retaining plate (3).
- Remove LED turn indicator (4), noting surfaces (5) and (6).

11



► **Removing right multifunctional turn indicator**

- Remove cable strap (arrow).
- Loosen connector (1) for right LED turn indicator and disconnect.
- Remove screw (2) and take off retaining plate (3).
- Remove LED turn indicator (4), noting surfaces (5) and (6).

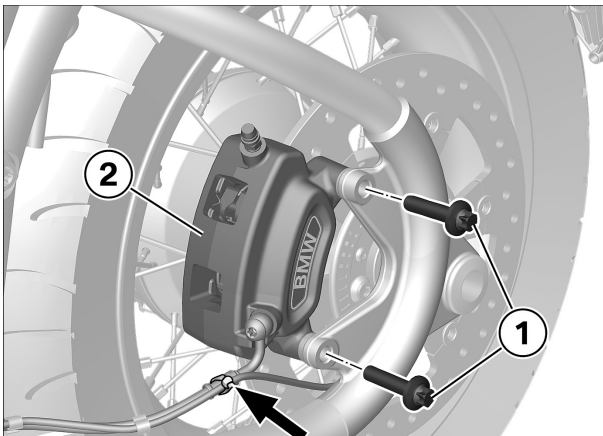
## 12

## ► Removing rear brake calliper

**ATTENTION****Brake actuation with brake pads or brake calipers removed**

Brake pistons pushed out

- Do not operate brake.
- Install brake pads and brake caliper or insert the piston resetting device.



- Remove cable strap (**arrow**).
- Remove screws (**1**).

**ATTENTION****Hard or sharp-edged components**

Scratches and damage to paintwork

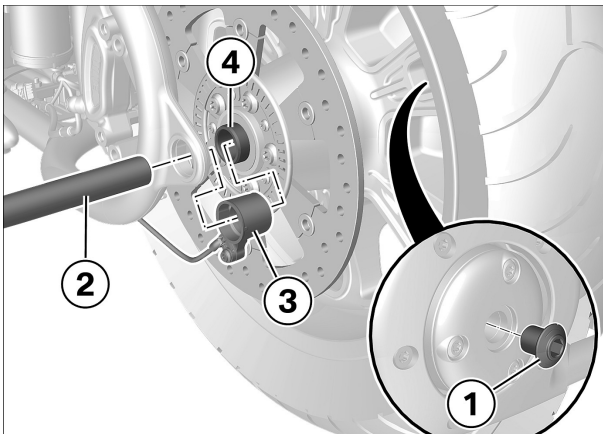
- Use a suitable soft cover or mask off the areas at risk.

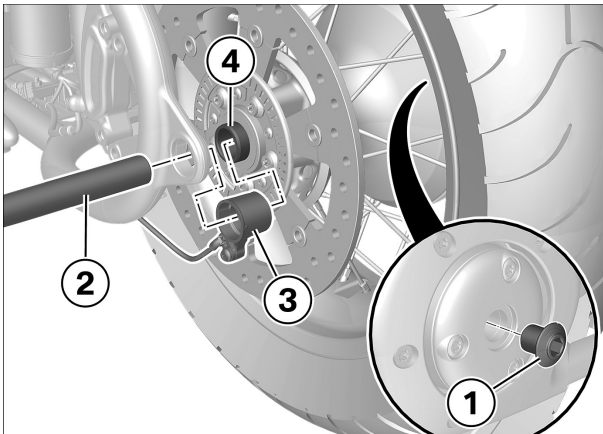
- Loosen brake calliper (**2**) from brake disc, set aside.

## 13

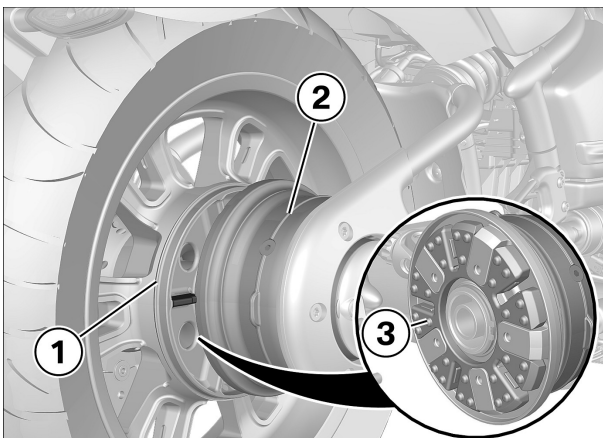
## ► Remove the rear wheel

- Remove bolt (**1**).
- Remove quick-release axle (**2**), let sensor mount (**3**) hang on cable.
- Remove bush (**4**).

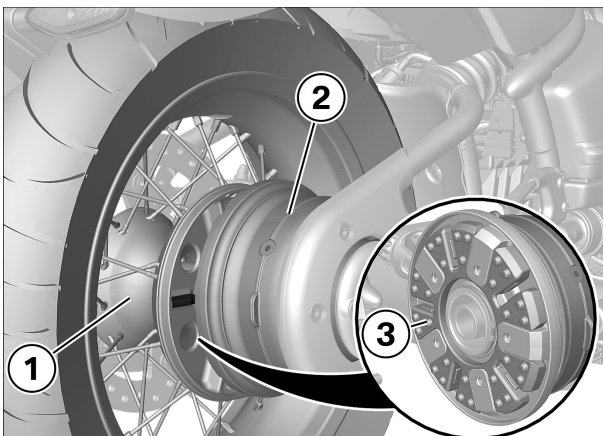




- with spoked wheels<sup>OE</sup> (0145)
- Remove bolt **(1)**.
- Remove quick-release axle **(2)**, let sensor mount **(3)** hang on cable.
- Remove bush **(4)**.◇



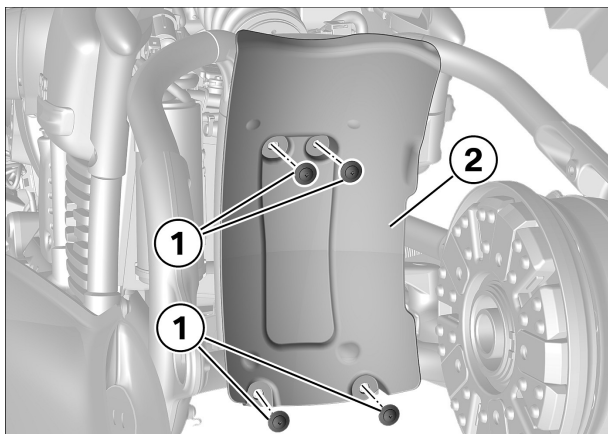
- Support the rear wheel **(1)**, for instance with chocks (36 5 521).
- Pull off rear wheel **(1)** from final drive **(2)**.
- Raise vehicle **with scissor-type lifter** and remove rear wheel **(1)**.
- Check torsion damper rubber **(3)** and replace, if necessary.



- with spoked wheels<sup>OE</sup> (0145)
- Support the rear wheel **(1)**, for instance with chocks (36 5 521).
- Pull off rear wheel **(1)** from final drive **(2)**.
- Raise vehicle **with rear-wheel stand** and remove rear wheel **(1)**.
- Check torsion damper rubber **(3)** and replace, if necessary.◇



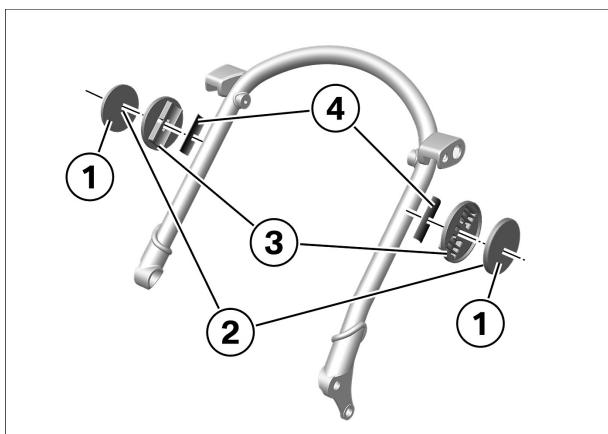
# 14



► **Removing spray guard for spring strut**

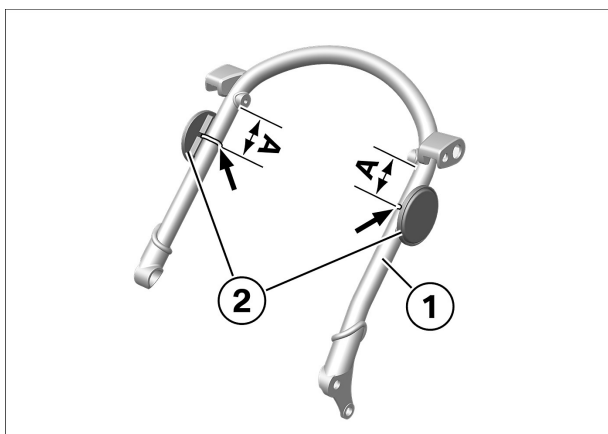
- Remove expanding rivet **(1)**.
- Take off spray guard **(2)**.

# 15




► **Installing reflectors, side**

- Remove protective film **(2)** from rear side of reflector **(1)**.
- Affix reflector **(1)** on holder **(3)**.
- Peel back protective film of adhesive strips **(4)** and affix on holder **(3)**.



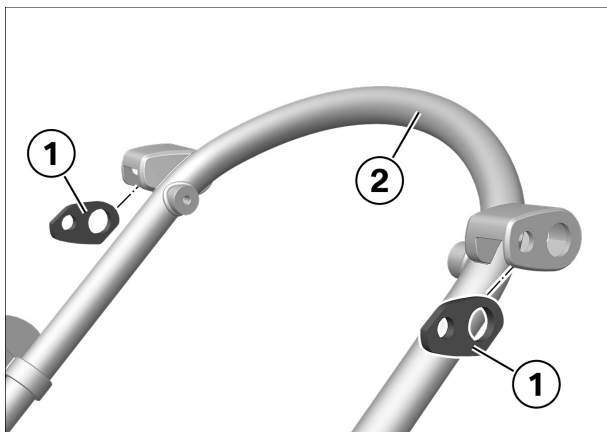
- Attach holder **(2)** according to dimension **(A)** on retaining bracket **(1)**, left and right.

 <b>Technical data</b>			
Distance from reflector to screw point		45 mm	

- Align reflector in parallel to vehicle
- Secure holder **(2)** with cable strap **(arrows)**.

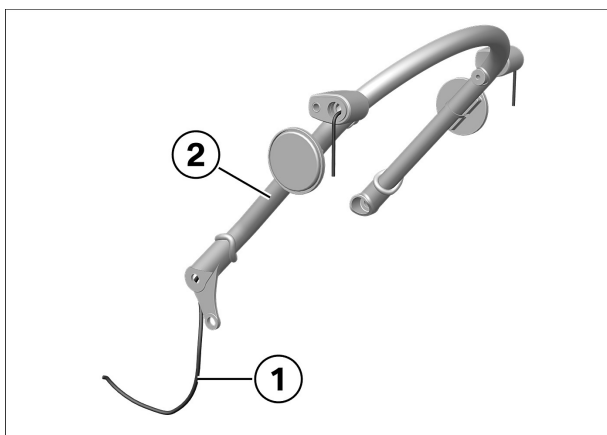


# 16



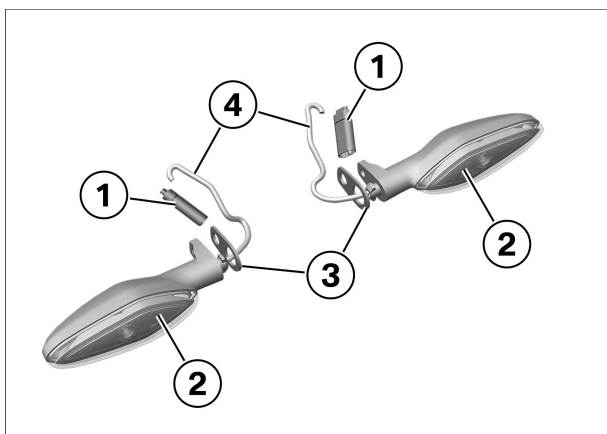
► **Installing the wiring harness for turn indicator into retaining bracket**

- Install damping elements (1) on the left and right in retaining bracket (2).
- » Damping elements (1) must be installed before pulling in the wiring harness.



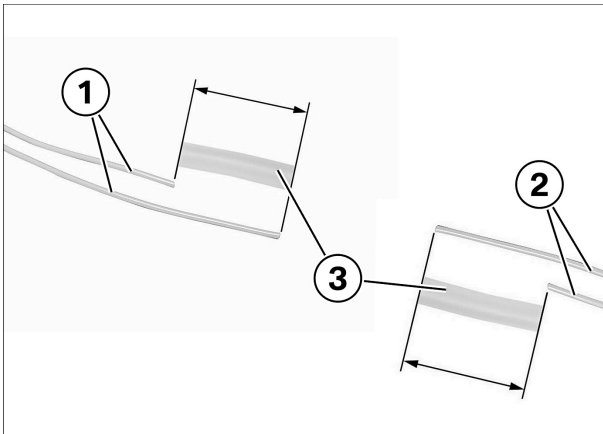
- Pull in wiring harness (1) for turn indicators from the left side into retaining bracket (2).
- » Short wiring harness for left turn indicator. Long wiring harness for right turn indicator

# 17




► **Installing multifunctional turn indicators on retaining bracket**

- Cut off connector (1) from removed turn indicators (2).
- Fit shims (3) over cable (4).



▷ **Connecting the cables for the multifunctional turn indicator**

- The cables of the multifunctional turn indicators and wiring harness must be connected in accordance with the following table:

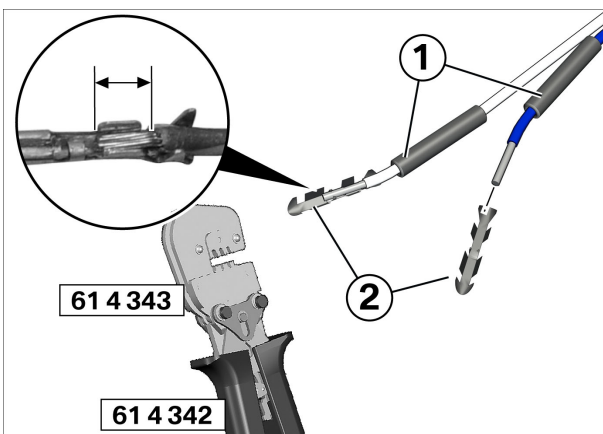
 <b>Technical data</b>			
Function	Multi-functional turn indicator cable colour	Cable colour wiring harness bobber kit	
Ground	Brown	Brown	
Turn indicator/brake light/tail light	Blue	Black (right)/white (left)	

» The remaining cables of the additional wiring harness are not required.

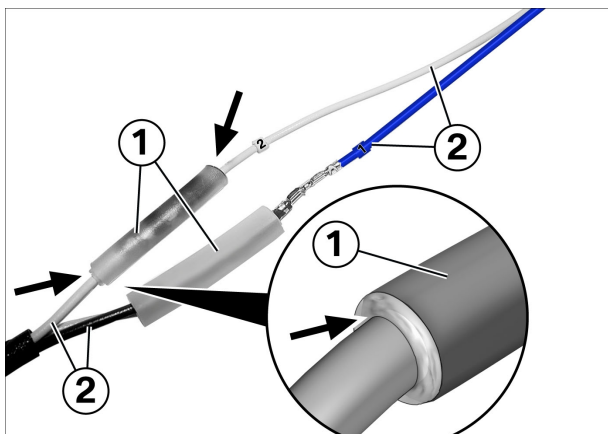
- **Before connecting the cables firmly, check the function of the turn indicators with a temporary connection.**
- Cut the individual cables (1) and their counterparts (2) in **staggered lengths** by the approximate length of a heat shrink tube (3) so that cable connections are not next to each other.



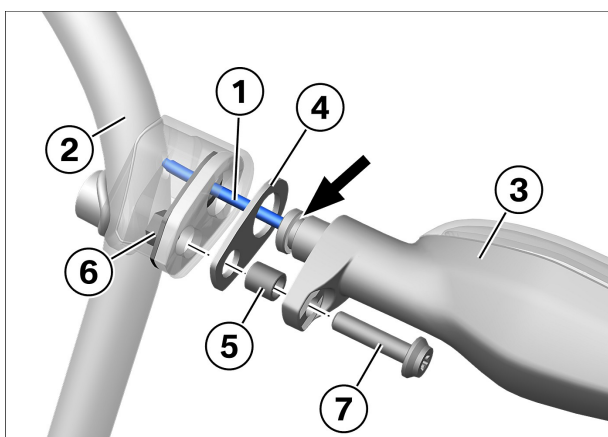
- Set stripping pliers (61 0 511) to the correct wire diameter.
- Use stripping pliers (61 0 511) to strip the ends of the wires.



- Push on the heat-shrink tubing (1).
- Insert the cable ends in the respective butt connectors (2), **the insulation and core must be secured (magnifying glass).**
- Secure the butt connector (2) using pliers (61 4 342) with crimping head (61 4 343) while noting the cable cross-section.

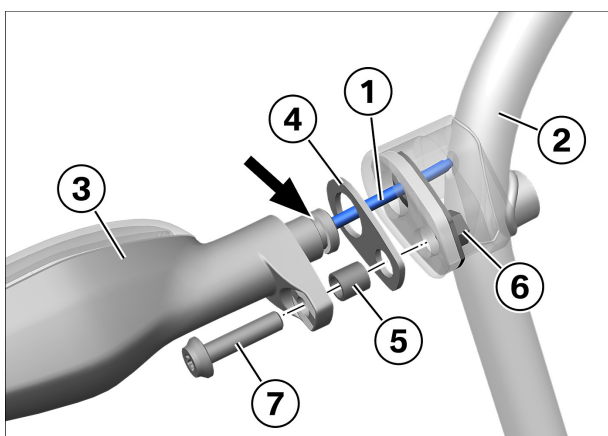


- Slide the heat shrink tube **(1)** over the cable connection and heat it.
- » Heat-shrink tubing **(1)** contracts to a tight fit.
- » Hot-melt adhesive (**Arrows**) escapes from between heat-shrink tubing **(1)** and cable **(2)**.



- Push cable **(1)** into retaining bracket **(2)**.
- Position left turn indicator **(3)** with shim **(4)** and bush **(5)** on retaining bracket **(2)**.
- Insert lock washer **(6)** so that recess engages in groove (**arrow**).
- Install screw **(7)**.

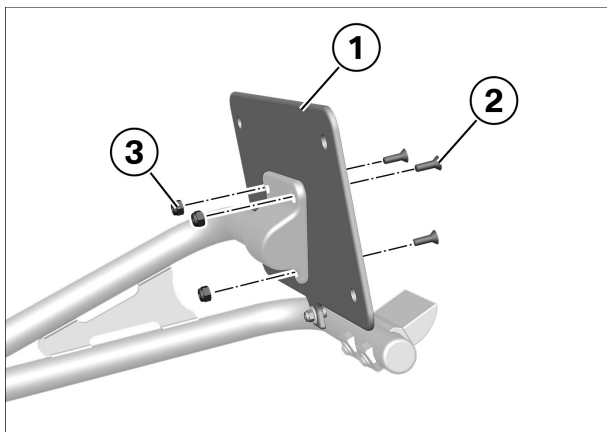
🔧 Tightening torques		
Multifunctional turn indicator on retaining bracket		
M6 x 25	14 Nm	
Thread-locking compound (Loctite 243, Medium strength)		



- Push cable **(1)** into retaining bracket **(2)**.
- Position right turn indicator **(3)** with shim **(4)** and bush **(5)** on retaining bracket **(2)**.
- Insert lock washer **(6)** so that recess engages in groove (**arrow**).
- Install screw **(7)**.

🔧 Tightening torques		
Multifunctional turn indicator on retaining bracket		
M6 x 25	14 Nm	
Thread-locking compound (Loctite 243, Medium strength)		

# 18

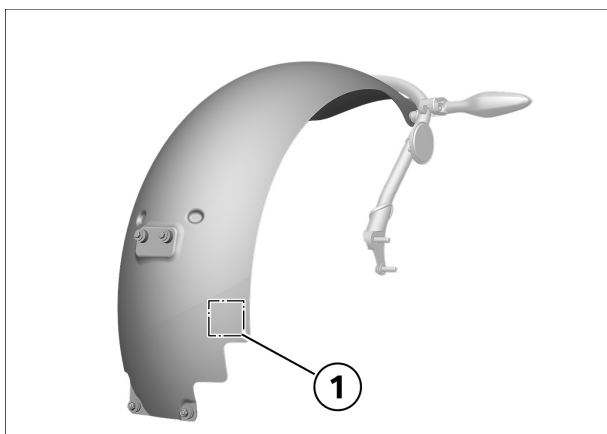


► **Pre-assembling number-plate carrier**

- Position carrier plate (1) and install screws (2) and nuts (3).

Tightening torques		
Support plate to number plate carrier		
M4 x 16 Thread-locking compound (mechanical)	Countersunk head screw and nut	
	3 Nm	

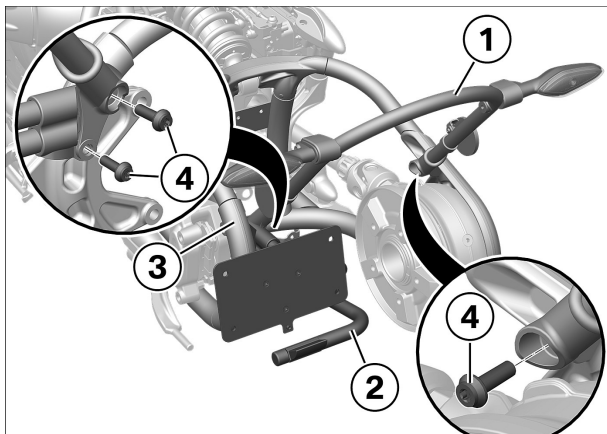
# 19



► **Affix part number label**

- Affix part number label in area (1).

# 20



► **Installing the rear-wheel cover and the side number plate carrier**

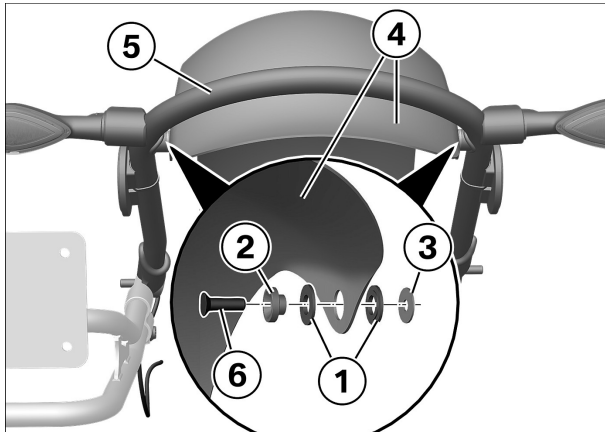
**ATTENTION**


**Use of hard or sharp-edged objects in proximity to component**

Component damage

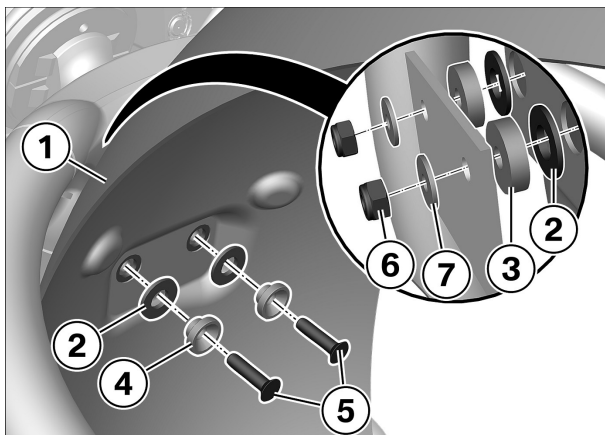
- Take care not to scratch components; cover or mask as necessary.


- Position retaining bracket (1) together with side number plate carrier (2) on rear wheel swinging arm (3).
- Install screws (4).



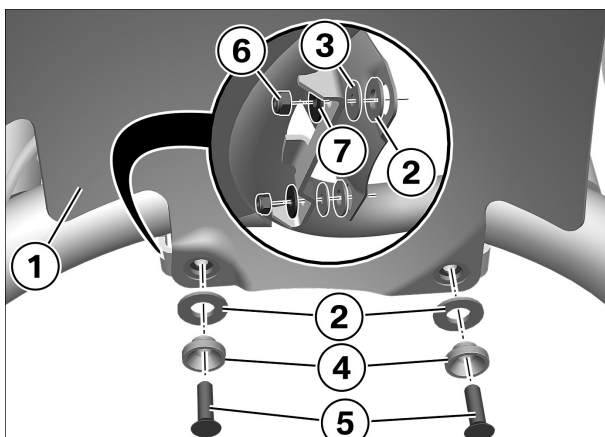
 <b>Tightening torques</b>		
<b>Side number plate carrier on rear wheel swinging arm</b>		
M8 x 25 Thread-locking compound (Loctite 243, Medium strength)	25 Nm	


- Install vibration decouplings **(1)** (collar to inside), collar bushings **(2)** and washers **(3)** in rear-wheel cover **(4)**.
- Position rear-wheel cover **(4)** on retaining bracket **(5)**.
- Install screws **(6)**.




 <b>Tightening torques</b>		
<b>Rear-wheel cover on top retaining bracket</b>		
M6 x 20 Thread-locking compound (Loctite 243, Medium strength)	Countersunk head screw	
	8 Nm	

- Position rear-wheel cover **(1)** with vibration decouplings **(2)** (collar to inside), spacer bushes **(3)** and collar bushes **(4)**.
- Install screws **(5)** and nuts **(6)** with washers **(7)**.



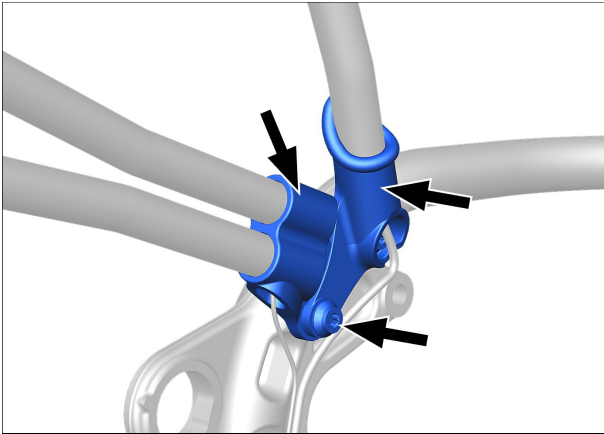
 <b>Tightening torques</b>		
<b>Rear-wheel cover on rear wheel swinging arm centre</b>		
M6 x 25 Thread-locking compound (mechanical)	Countersunk head screw and nut	
	8 Nm	

- Position rear-wheel cover **(1)** with vibration decouplings **(2)** (collar to inside), washers **(3)** and collar bushes **(4)**.
- Install screws **(5)** and nuts **(6)** with washers **(7)**.

 <b>Tightening torques</b>		
<b>Rear-wheel cover on rear wheel swinging arm bottom</b>		
M6 x 25 Thread-locking compound (mechanical)	Countersunk head screw and nut	
	8 Nm	

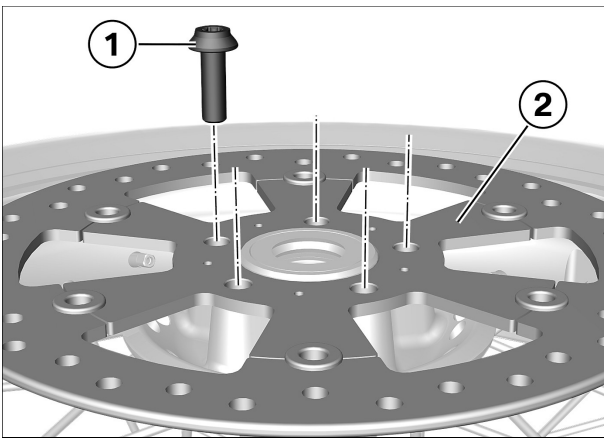


21



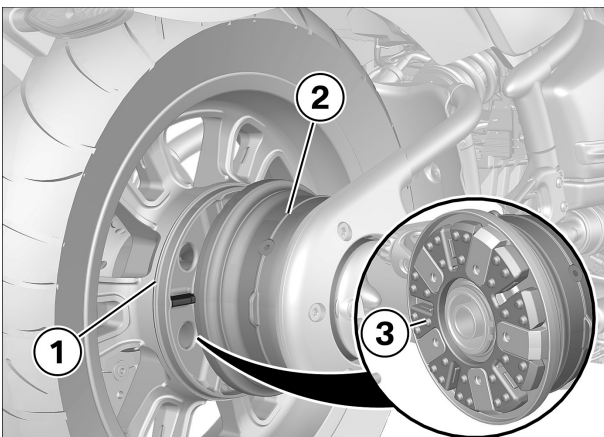
► **Install the rear wheel**

- Mask marked areas (**arrows**).
- To prevent damage on number plate carrier, rear wheel swinging arm and rear wheel, install rear wheel with a second mechatronics technician or workshop crane (46 5 670).




▷ **Removing rear brake disc**

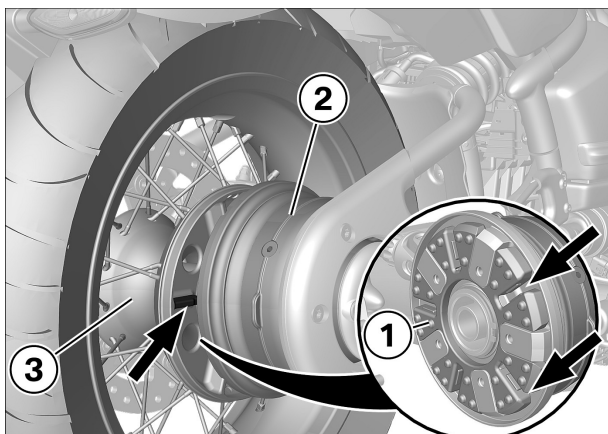
- Remove screws (**1**).
- Remove the brake disc (**2**).




- Make sure judder damper rubber (**1**) is installed in rear axle differential (**2**) and lightly lubricate judder damper rubber (**1**).
- Mounting orientation, see figure.

 <b>Installation tool</b>	
Silicone spray	83 19 2 208 609

- Position rear wheel (**3**) and support with wedges (36 5 521).
- Cast ribs engage in judder damper rubber (**1**) (**arrows**).
- Push in rear wheel (**3**) to limit position.



- with spoked wheels<sup>OE</sup> (0145)
- If necessary, install judder damper rubber **(1)** in rear axle differential **(2)** and lubricate lightly.
- Mounting orientation, see figure.

 <b>Installation tool</b>	
Silicone spray	83 19 2 208 609

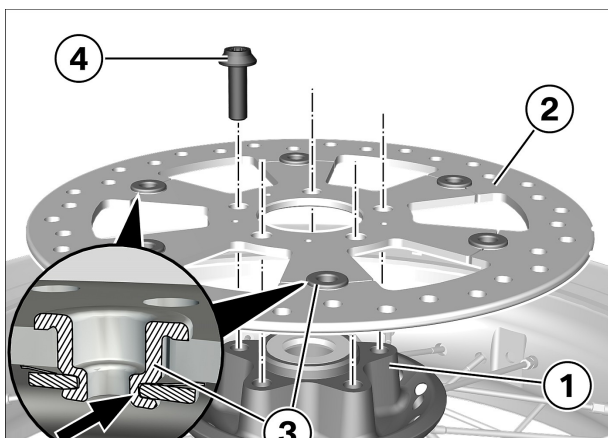
- Position rear wheel **(3)** and support with wedges (36 5 521).
- Cast ribs engage in judder damper rubber **(1)** (arrows).
- Push in rear wheel **(3)** to limit position.

▷ **Installing rear brake disc**


- Clean thread.

 **NOTICE**

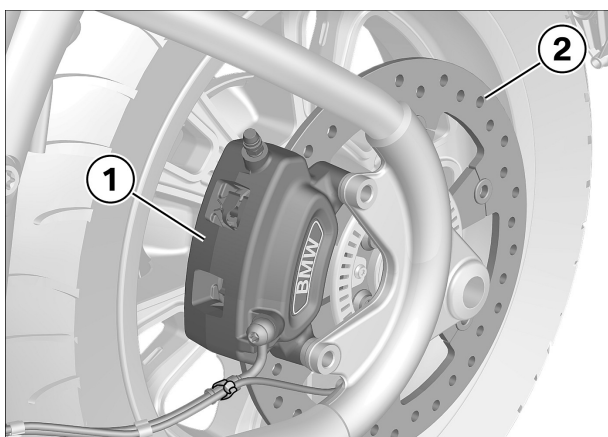
During the installation of the brake disc, make sure there is no contamination or screw locking residue between the wheel rim and brake disc. The contact surfaces must be level and clean.



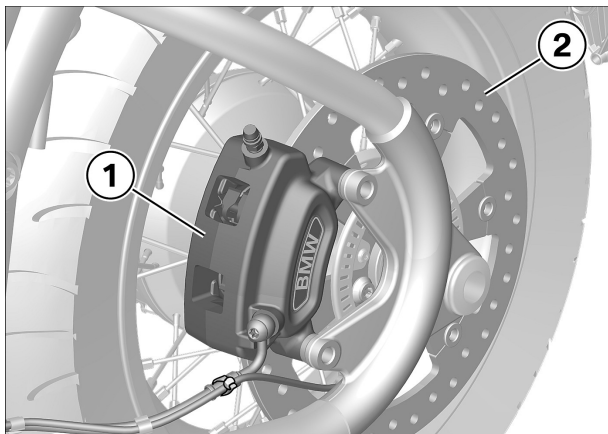
- Clean front wheel on contact surface **(1)**.
- Place brake disc **(2)** with beading (Arrow) of rivets **(3)** facing inward onto wheel rim.
- Install screws **(4)**.

 <b>Tightening torques</b>	
<b>Brake disc to rear wheel</b>	
M10 x 30 - 10.9, Replace bolt or use screw lock	56 Nm
Thread-locking compound (micro-encapsulated)	
or, Thread-locking compound (Loctite 243, Medium strength)	

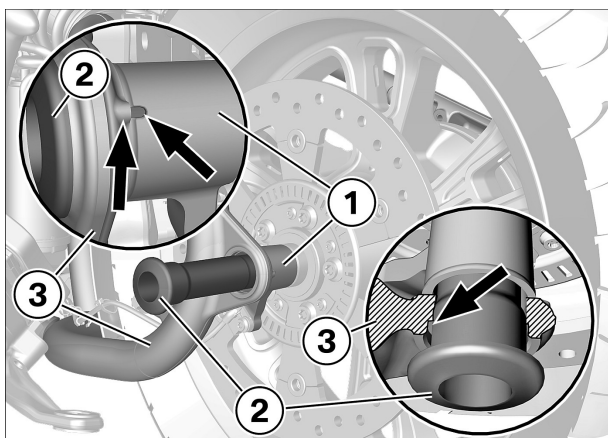
▷



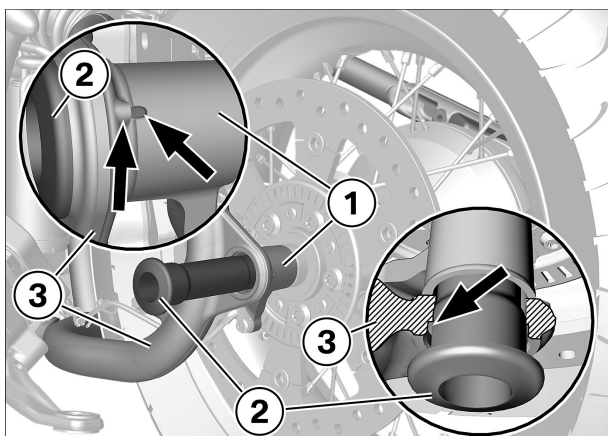
- Attach brake calliper **(1)** on brake disc **(2)**.
- Rear wheel is secured against slipping.



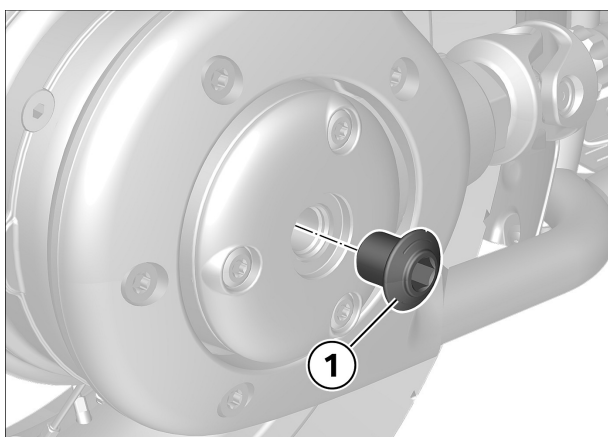
- with spoked wheels<sup>OE</sup> (0145)
- Attach brake calliper (1) on brake disc (2).
- Rear wheel is secured against slipping.◇




- Position sensor mount (1) and quick-release axle (2).
- Align marks on sensor mount (1) and rear wheel swinging arm (3) (arrows).
- Slide in quick-release axle (2) completely.
- Align quick-release axle (2) with mating surface (arrow) on rear wheel swinging arm (3) and sensor mount (1) (arrows).



- with spoked wheels<sup>OE</sup> (0145)
- Position sensor mount (1) and quick-release axle (2).
- Align marks on sensor mount (1) and rear wheel swinging arm (3) (arrows).
- Slide in quick-release axle (2) completely.
- Align quick-release axle (2) with mating surface (arrow) on rear wheel swinging arm (3) and sensor mount (1) (arrows).◇

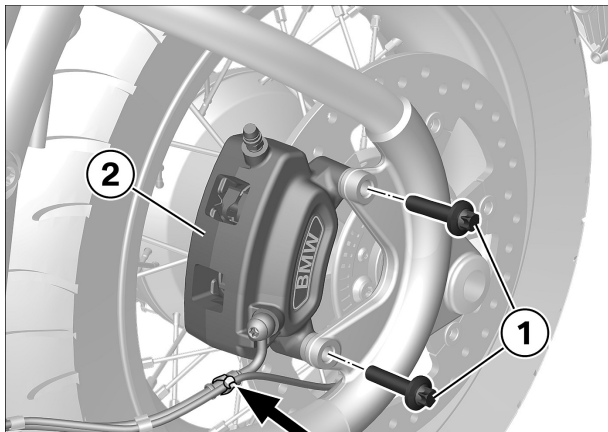


- Install screw (1).

 <b>Tightening torques</b>		
<b>Bolt to rear wheel quick-release axle</b>		
M20 x 1,5 - 8.8	100 Nm	



## 22



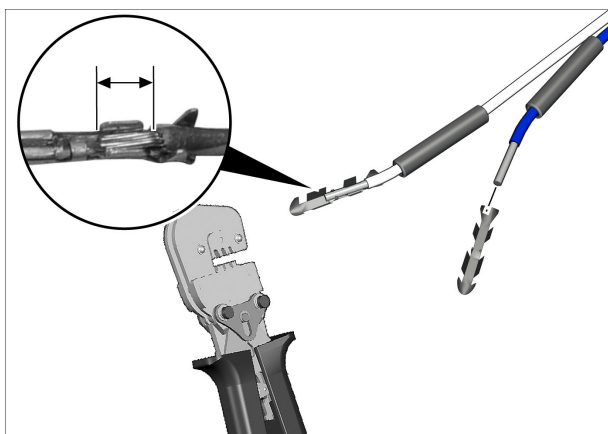
### ► Securing rear brake calliper

- Position brake calliper (2).
- Install screws (1).

Tightening torques		
Rear brake caliper on rear wheel swinging arm		
M10 x 40 - 10.9	56 Nm	

- Secure the cable strap (arrow).
- Operate the brake several times until the brake pads are bedded.

## 23



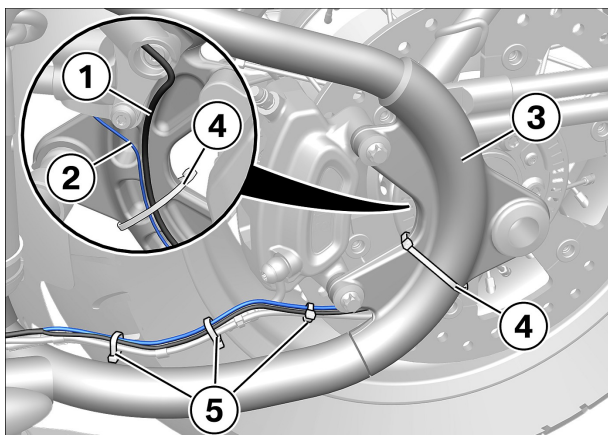
### ► Connecting cable for number plate light

- The cables of the number plate light and wiring harness must be connected in accordance with the following table:

Technical data			
Function	Cable cover number plate light	Cable colour wiring harness bobber kit	
Ground	Black	Brown	
Power supply	Red	Blue	

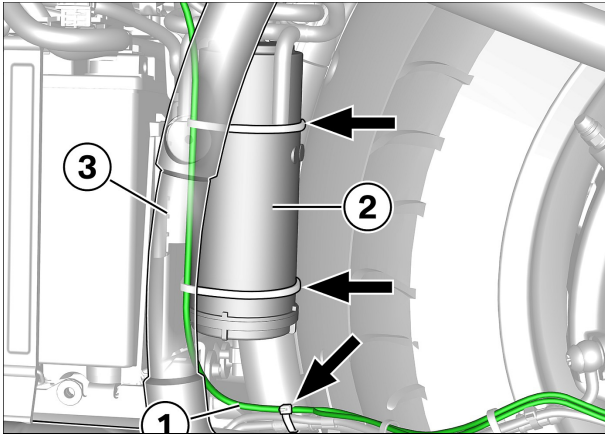
- Connect cable for number plate light according to the instructions for multifunction turn indicators.
- » Additionally, wrap shrink hoses with fabric tape

## 24



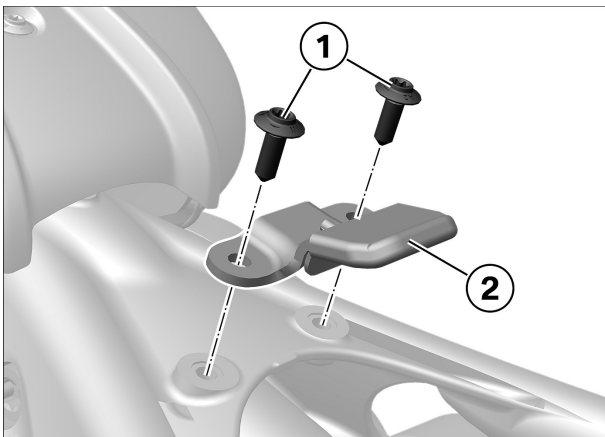
### ► Installing the wiring harness for turn indicator and number plate light

- Lay wiring harness (1) for turn indicator and wiring harness (2) for number plate light inside on rear wheel swinging arm (3) and secure with cable straps (4).
- Lay wiring harnesses (1) and (2) to the front and secure with cable straps (5).



- Work wiring harness (1) between activated carbon filter (2) and frame (3) clear to the top.
- Do not lay wiring harness (1) between rear wheel swinging arm and activated carbon filter (2) while under voltage!
- Close the cable strap (arrows).

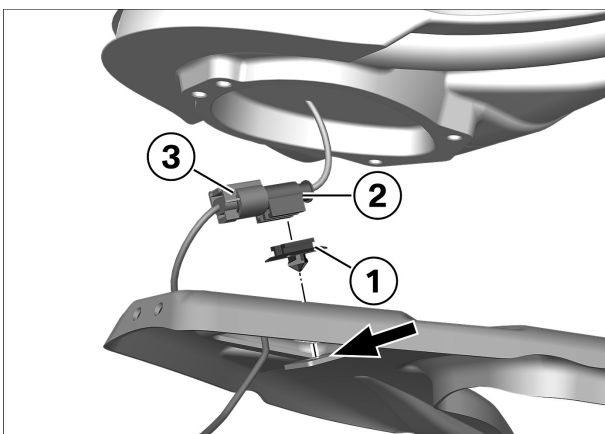
## 25



### ► Removing the retaining lug for the rider's seat

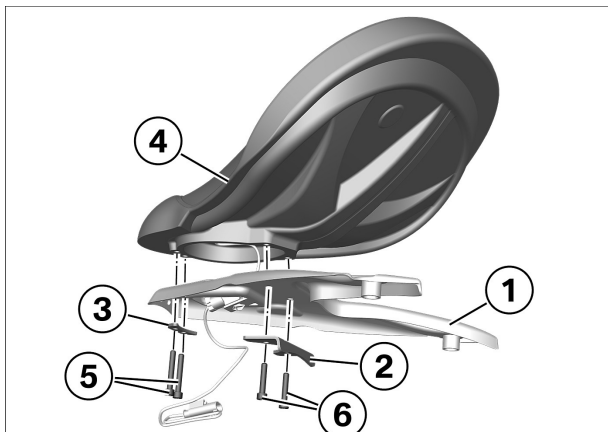
- Remove screws (1).
- Remove the retaining lug (2) for the rider's seat.

## 26



### ► Assembling the solo seat

- Install holder (1) for connector on seat support (arrow).
- Connect connector (2) for audio frequency aerial and connector (3) of additional cable and secure on holder (1).



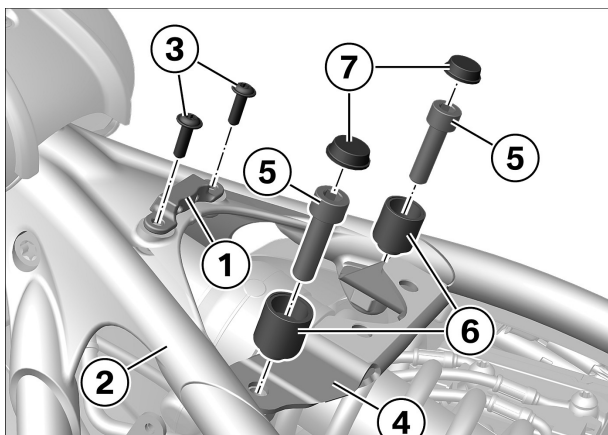
- Position seat support (1), reinforcement plates (2) and (3) on seat (4).
- Install screws (5).

Tightening torques		
Seat support to seat		
M6 x 40 Thread-locking compound (Loctite 243, Medium strength)	8 Nm	

- Install screws (6).

Tightening torques		
Seat support to seat		
M6 x 30 Thread-locking compound (Loctite 243, Medium strength)	8 Nm	

## 27



### ► Installing the holding bracket and reinforcement bridge for solo seat

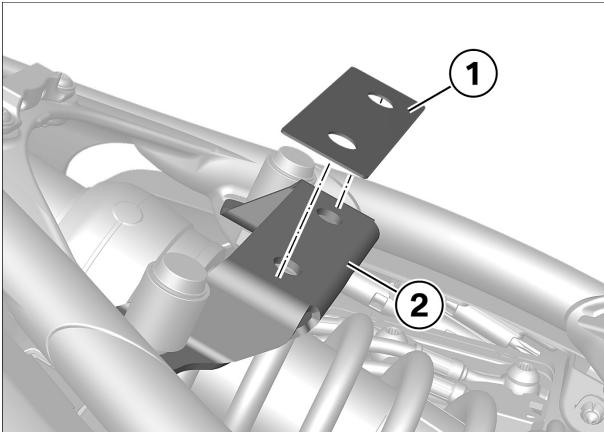
- Position support bracket (1) on main frame (2).
- Install screws (3).

Tightening torques		
Holding bracket on main frame		
M6 x 20 Thread-locking compound (Loctite 243, Medium strength)	8 Nm	

- Position reinforcement bridge (4) on main frame (2).
- Install screws (5) together with bushes (6).

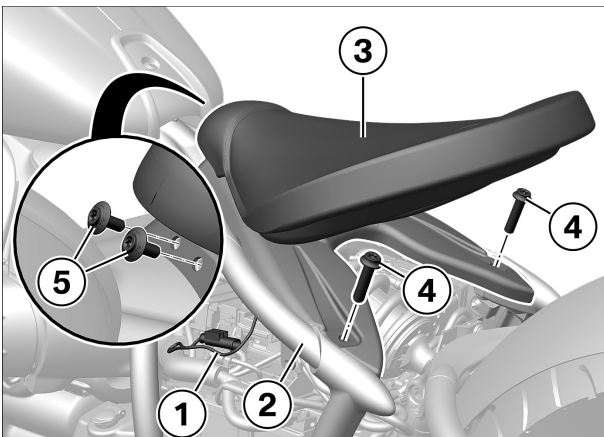
Tightening torques		
Reinforcement bridge at rear of main frame		
M10 x 35 Thread-locking compound (Loctite 243, Medium strength)	49 Nm	

- Insert rubber buffer (7).



- Glue on damping rubber (1) on reinforcement bridge (2).

28



► **Installing the solo seat**

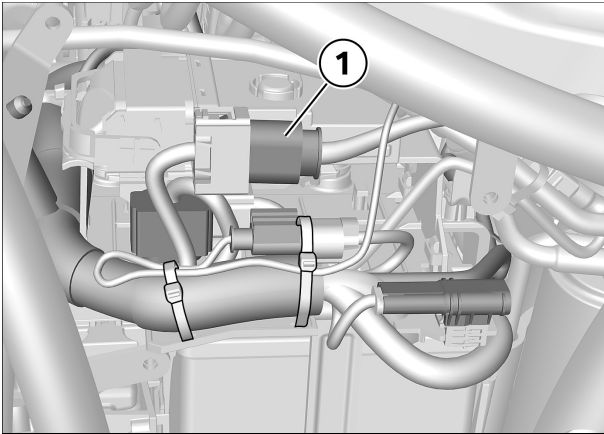
- Work cable (1) for AF aerial through main frame (2) and position solo seat (3).
- Install screws (4) hand-tight.
- Install screws (5).

🔧 <b>Tightening torques</b>		
<b>Solo seat in front on holding bracket</b>		
M5 x 12	5 Nm	
Thread-locking compound (Loctite 243, Medium strength)		

- Tighten screws (4).

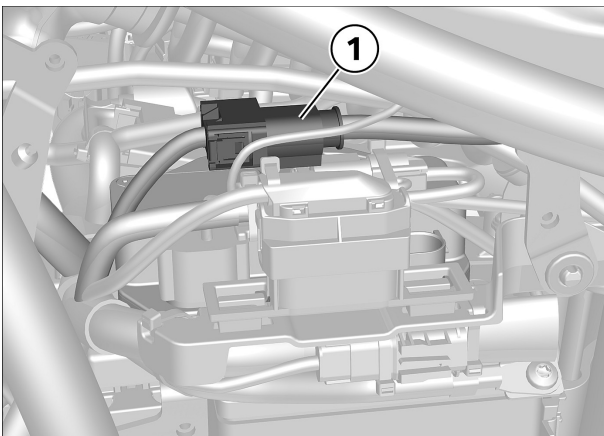
🔧 <b>Tightening torques</b>		
<b>Solo seat on main frame</b>		
M10 x 40	49 Nm	
Thread-locking compound (Loctite 243, Medium strength)		

29



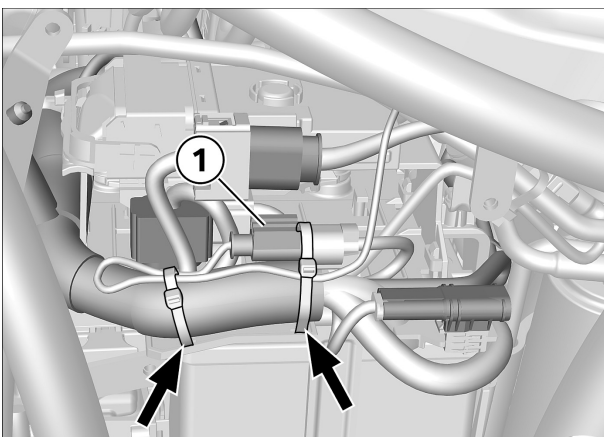
► **Connecting the rear lights and AF aerial**

- Connect connector **(1)** for rear lights.

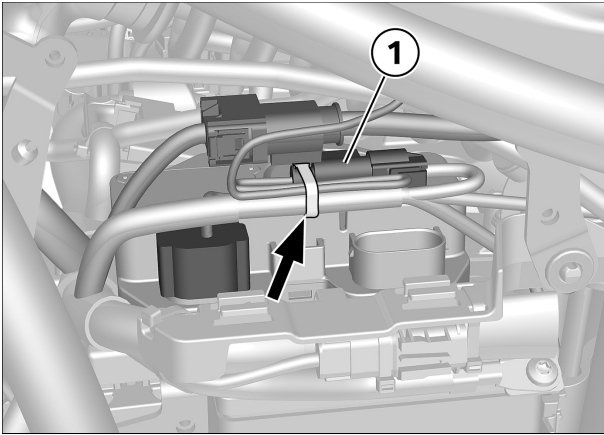


– as of build level March 2021<sup>CST</sup>

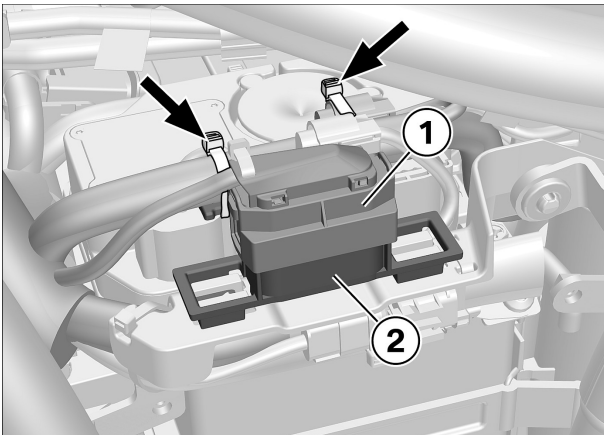
- Connect connector **(1)** for rear lights.◇



- Connect connector **(1)** for AF aerial.
- Close the cable strap **(arrows)**.



- as of build level March 2021<sup>CST</sup>
- Connect connector **(1)** for AF aerial.
- Secure the cable strap **(arrow)**.◇



- as of build level March 2021<sup>CST</sup>
- Install holder **(2)** and secure analysis connector **(1)**.
- Close the cable strap **(arrows)**.◇

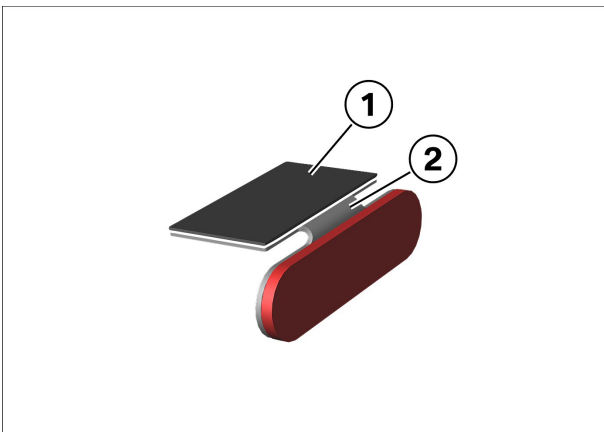
**30**

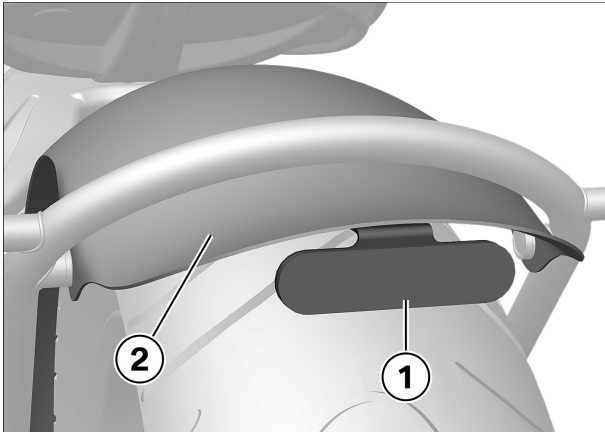
► **Attaching the reflector to the rear-wheel cover**

**NOTICE**

Faces that will be in contact with the adhesive must be dry, clean and free from dust and grease.

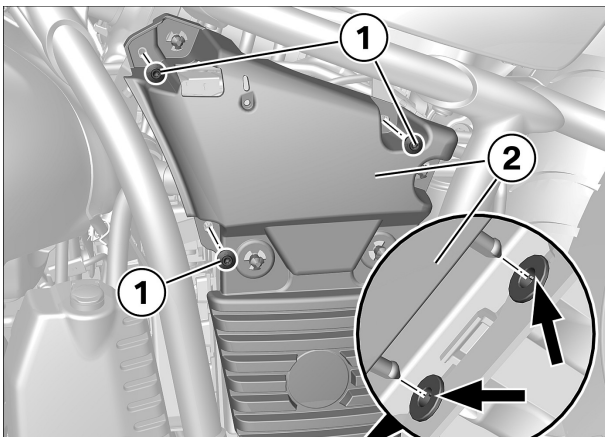
- Affix double-sided adhesive tape **(1)** on holder of reflector **(2)**.





- Remove protective film from double-sided adhesive tape on reflector **(1)**.
- Position reflector **(1)** centred on inside of rear-wheel cover **(2)**, align and briefly press firmly.

**31**

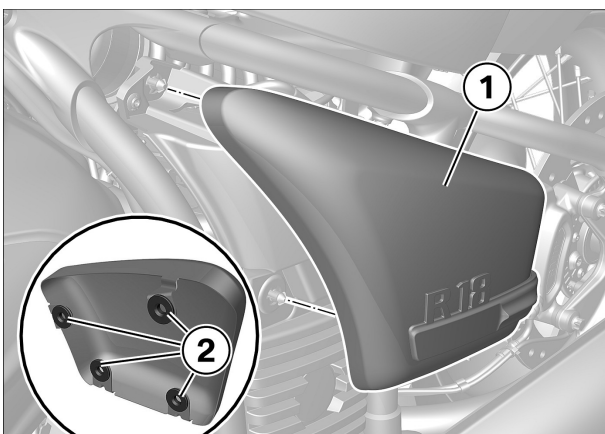


► **Install support for left side cover**

- Clean the threads.
- Position support **(2)** and secure at bottom **(arrows)**.
- Install screws **(1)**.

Tightening torques		
Carrier for side cover to frame		
M5 x 14	5 Nm	
Thread-locking compound (micro-encapsulated)		

**32**



► **Installing left side cap**

- Lubricate rubber grommets **(2)** lightly.

Care products	
Rubber care product	83 12 0 397 018

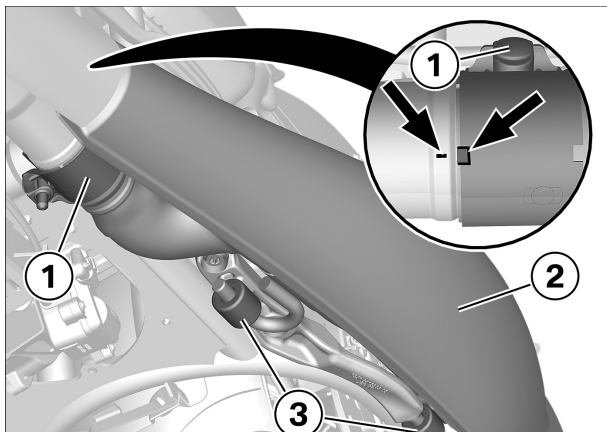
- Position side cover **(1)** and secure with rubber grommets **(2)**.
  - First insert at the bottom, then press on the top.
  - Check side cover for tight fit, it must be secured in all 4 rubber grommets.

33


► Install the left silencer

**NOTICE**


To ensure the leaktightness of the exhaust system, the exhaust clamps have to be lubricated for installation. It is particularly important to apply lubricant to the vicinity of the joint.



- Clean clamp (1) **inside** and lubricate lightly.

 <b>Lubricant</b>	
Optimoly TA	18 21 9 062 599

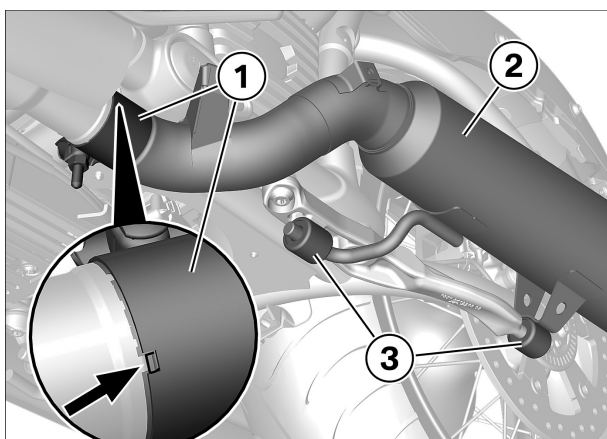
- Install silencer (2) with clamp (1) and slide into holder (3).
- Align silencer and clamp on retaining lug/line marking (**Arrows**).
- Tighten clamp (1).


 <b>Tightening torques</b>		
<b>Clamp to silencer and exhaust manifold</b>		
	24 Nm	

– **Align silencer ends vertically before additional angle of rotation** (parallel to rear frame/rear wheel).


– with design option rear silencer<sup>OE</sup> (19FA)

- Clean clamp (1) **inside** and lubricate lightly.



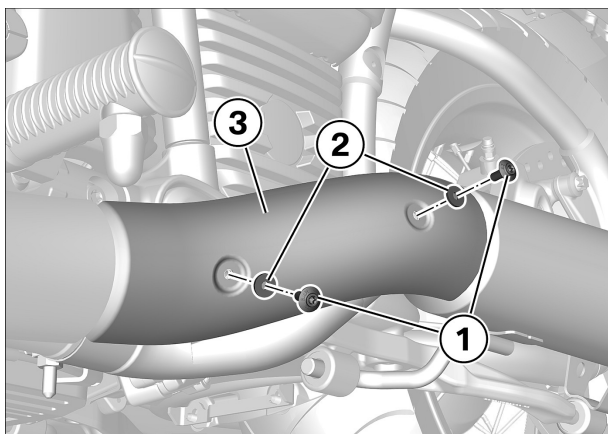
 <b>Lubricant</b>	
Optimoly TA	18 21 9 062 599

- Install silencer (2) with clamp (1) and slide into holder (3).
- Align silencer and clamp on retaining lug (**arrows**).
- Tighten clamp (1).

 <b>Tightening torques</b>		
<b>Clamp to silencer and exhaust manifold</b>		
	24 Nm	

– **Align silencer ends vertically before additional angle of rotation** (parallel to rear frame/rear wheel).◇





- with design option rear silencer<sup>OE</sup> (19FA)
- Position trim **(3)**.
- Install screws **(1)** with washers **(2)**.◇


# 34

## ► Installing right silencer


### NOTICE

To ensure the leaktightness of the exhaust system, the exhaust clamps have to be lubricated for installation. It is particularly important to apply lubricant to the vicinity of the joint.

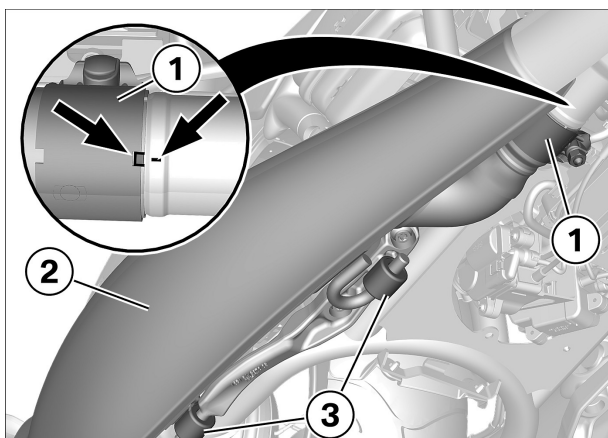
- Clean clamp **(1)** **inside** and lubricate lightly.

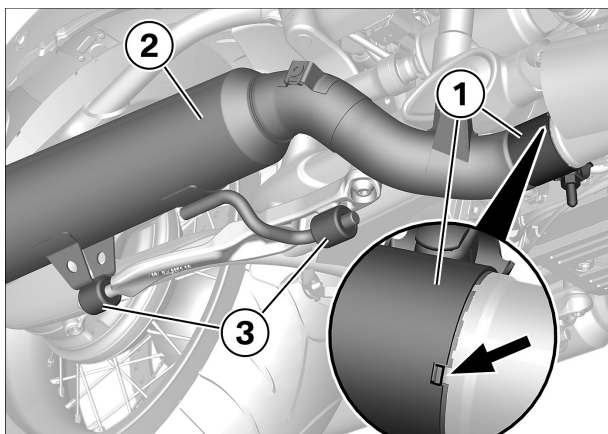
 <b>Lubricant</b>	
Optimoly TA	18 21 9 062 599

- Install silencer **(2)** with clamp **(1)** and slide into holder **(3)**.
- Align silencer and clamp on retaining lug/line marking **(Arrows)**.
- Tighten clamp **(1)**.

 <b>Tightening torques</b>	
<b>Clamp to silencer and exhaust manifold</b>	
	24 Nm

- **Align silencer ends vertically before additional angle of rotation** (parallel to rear frame/rear wheel).





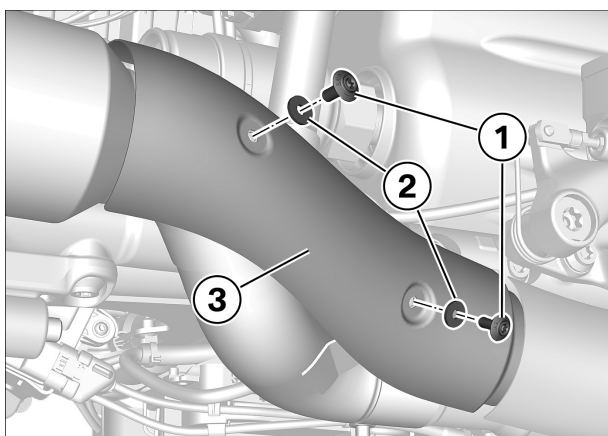
- with design option rear silencer<sup>OE</sup> (19FA)
- Clean clamp **(1)** **inside** and lubricate lightly.

🔧 Lubricant	
Optimoly TA	18 21 9 062 599

- Install silencer **(2)** with clamp **(1)** and slide into holder **(3)**.
- Align silencer and clamp on retaining lug **(arrows)**.
- Tighten clamp **(1)**.

🔧 Tightening torques	
Clamp to silencer and exhaust manifold	
	24 Nm

- **Align silencer ends vertically before additional angle of rotation** (parallel to rear frame/rear wheel).◇



- with design option rear silencer<sup>OE</sup> (19FA)
- Position trim **(3)**.
- Install screws **(1)** with washers **(2)**.◇

## 35

### ▶ Installing number plate

- Install number plate.

## 36

### ▶ 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**

- Select neutral.
  - » Switch on the ignition.
  - » Neutral indicator light "N" lights up.
- Select a gear.
  - » Neutral indicator light "N" goes out.
- Operate the starter switch.
  - » Starter does **not** operate.
- Extend the side stand.
  - » Pull the clutch lever.
- Operate the starter switch.
  - » Starter does **not** operate.
- Retract the side stand.
  - » Operate the starter switch without releasing the clutch lever.
  - » Starter operates.

**Result**

Not all test steps completed successfully.

**Measure**

- Check corresponding components with BMW Motorrad diagnosis system.

