



## SIB 61 07 21 RETROFITTING HEATED GRIPS

**MODEL**

E-Series	Model Description
K02/11	G 310 GS
K03/11	G 310 R

### SITUATION

Workshop installation guide "Installing heated grips" not yet available in AIR.

Installation instructions have been modified due to updated wiring harness routing and arrangement.

### PROCEDURE

These documents will be added to AIR in the fall of 2021. In the meantime, please use the attached instructions appropriate for the model of motorcycle being retrofitted.

### QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Contact the BMW Technical Support Group via TSARA
Warranty inquiries	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Motorrad Parts Department

#### Supporting Materials

[picture\\_as\\_pdf 77 22 185\\_K02MÜ\\_EN.pdf](#)

[picture\\_as\\_pdf 77 22 185\\_K03MÜ\\_EN.pdf](#)

[picture\\_as\\_pdf 61 07 21\\_RETROFITTING HEATED GRIPS.pdf](#)

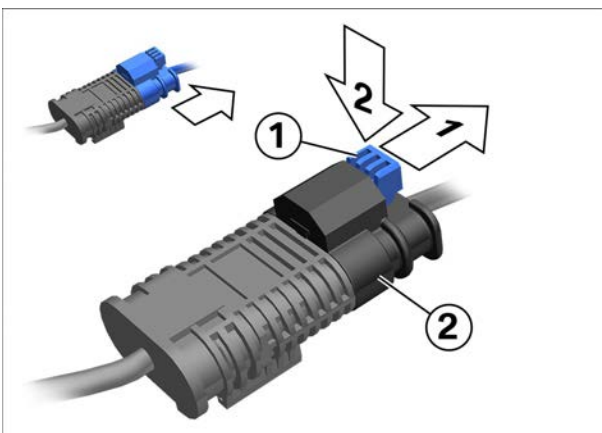
**0G31 - G 310 GS****77 22 185 Installing heated handlebar grips****1****► Preparatory work**

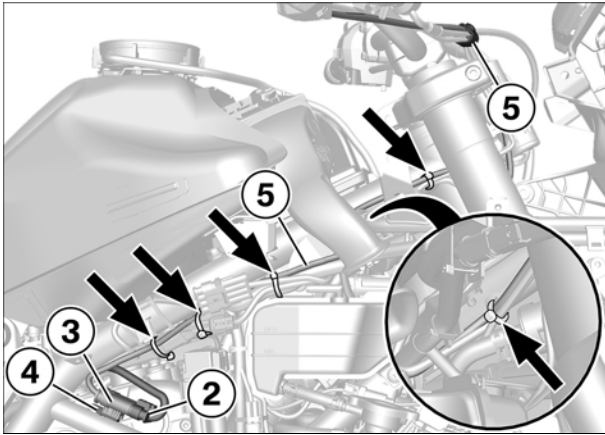
- Removing and installing the rear-wheel stand special tool (motorcycles without centre stand) (Description in item: 46 52 510, Billed as a separate item)
- Removing seat
- Removing cover for left intake snorkel
- Removing the cover for right intake snorkel
- Removing cover for fuel tank
- Removing right radiator cowl
- Removing top front-wheel cover
- Removing front mask with windscreen
- Removing headlight
- Remove the left handlebar weight
- Remove the right handlebar weight

**2****► Removing throttle grip unit****► Information for disconnecting vibration-resistant connectors****ATTENTION****Disconnection of the connector not in compliance with correct procedure**

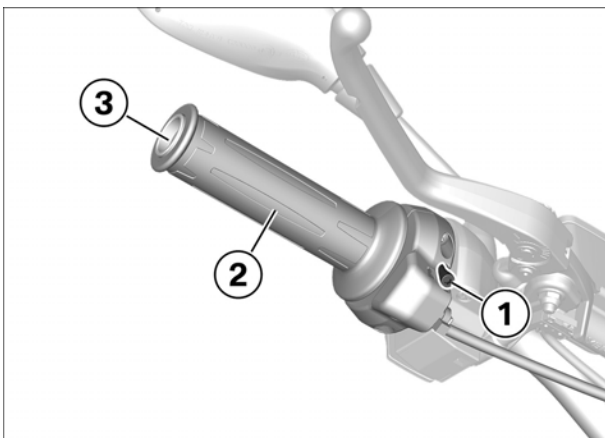
Damage to locking tab

- 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)**.



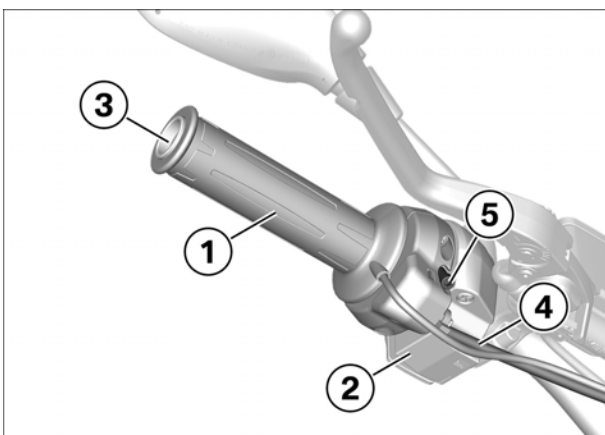


- Remove cable straps (**arrows**).
- Remove tensioning strap (**1**).
- Disconnect connector (**2**).
- Disconnect connector (**3**) from holder (**4**) and work cable (**5**) for throttle grip unit clear to the top.



- Loosen bolt (**1**).
- Pull off throttle grip unit (**2**) from handlebars (**3**).

### 3



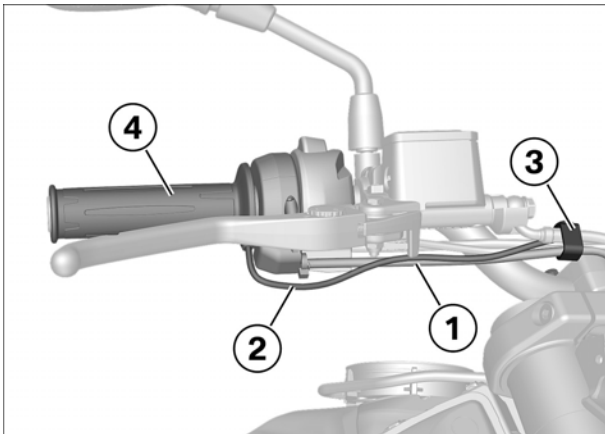
#### ► Installing new throttle grip unit

#### **⚠ WARNING**

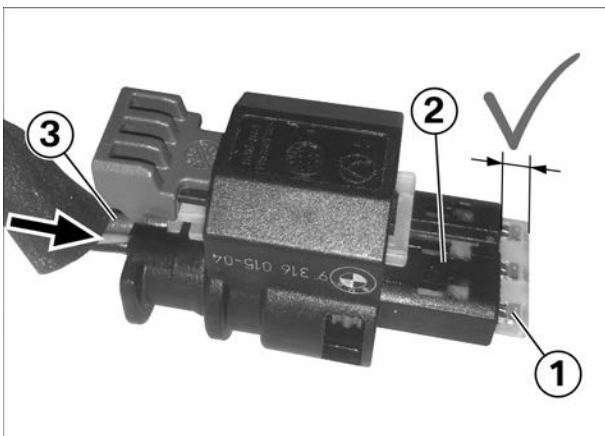
**Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.**

Impairment of road safety.

- Check the freedom of movement of the handlebars.
- Slide on new throttle grip unit (**1**) up to multifunction switch (**2**) on handlebars (**3**).
- Select position of throttle grip unit (**1**) making sure that cable (**4**) is not bent by multifunction switch (**2**).
- Tighten screw (**5**).

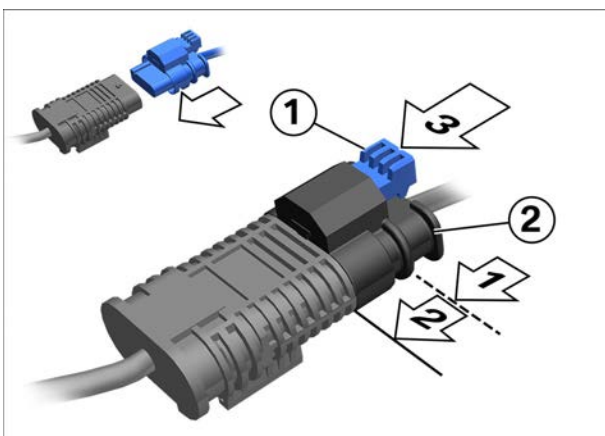


- Route cable for throttle grip unit **(1)** and cable for grip heating **(2)** and work down.
- Install tensioning strap **(3)**.
- Ensure freedom of movement of cable for grip heating **(2)** with operation of throttle grip **(4)**.

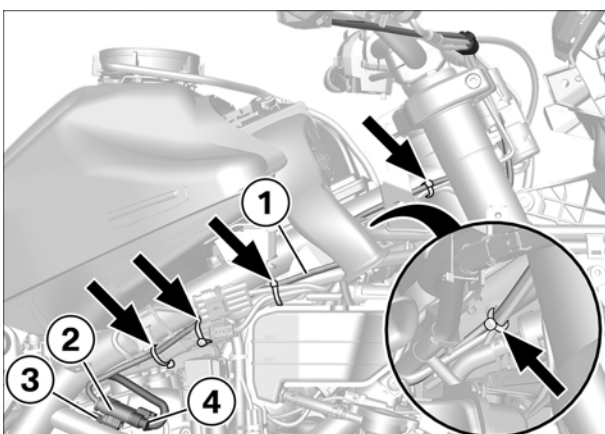


▷ **Information for connecting vibration-resistant connectors**

- 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

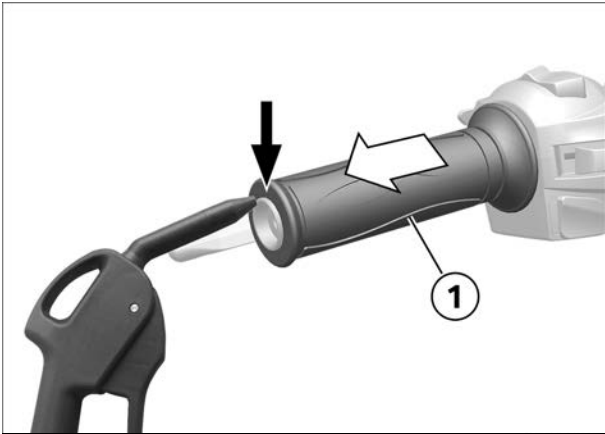


- Ensure that the release tab **(1)** is unlocked.
- Slide connector **(2)** in direction of arrow **(arrow 1)**.
  - » The connector **(2)** engages audibly.
- Slide connector **(2)** in direction of arrow **(arrow 2)** further.
  - » The connector **(2)** engages audibly.
- Slide locking tab **(1)**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



- Route cable for throttle grip unit **(1)**.
- Secure connector **(2)** on holder **(3)**.
- Connect connector **(4)**.
- Close the cable strap **(arrows)**.

4



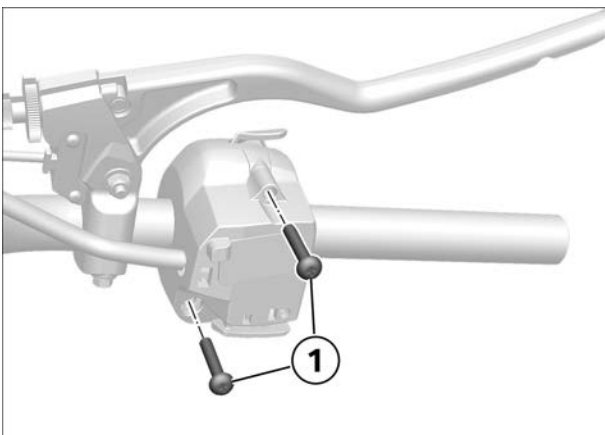
► **Removing left handlebar grip**

- Lift the edge of handlebar grip **(1)** (Arrow), spray brake cleaner and spread it under handlebar grip **(1)** with compressed air.

Cleaner	
Brake cleaner	83 19 2 154 780

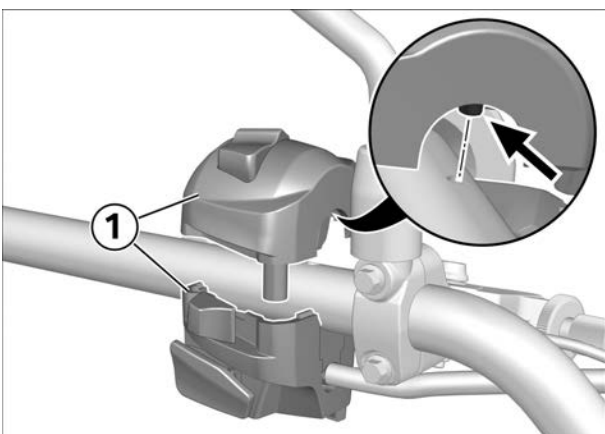
- Pull off handlebar grip **(1)**.

5



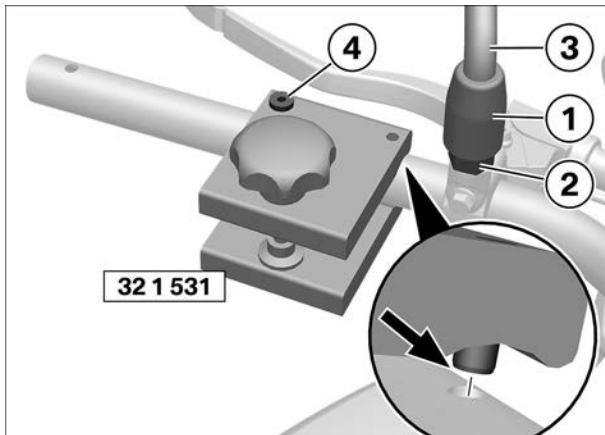
► **Removing left multifunction switch**

- Remove screws **(1)**.



- Separate housing halves of multifunction switch **(1)**, noting the lug (arrow).
- Loosen multifunction switch **(1)** and let it hang from the cable.

## 6

► **Preparing handlebars for grip heating, left**

- Slide rubber grommet **(1)** up.
- Loosen lock nut **(2)** and loosen mirror **(3)**.
- Insert drilling template (32 1 531) with retaining pin into multifunction switch bore hole (**Arrow**) and clamp tight.
- Drill through drill sleeve **(4)** through handlebars from top and bottom and remove swarf **several times** from drill sleeve **(4)**.

**Technical data**

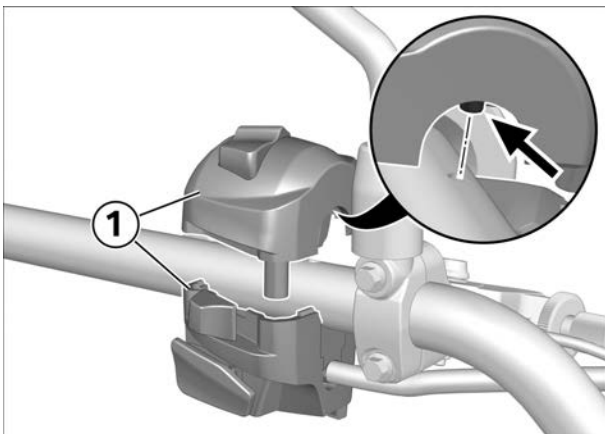
Hole diameter for left heated grip	Twist drill Ø	3.5 mm	
------------------------------------	---------------	--------	--

- Remove drilling template (32 1 531).
- Secure mirror **(3)** with lock nut **(2)** and push rubber grommet **(1)** on.

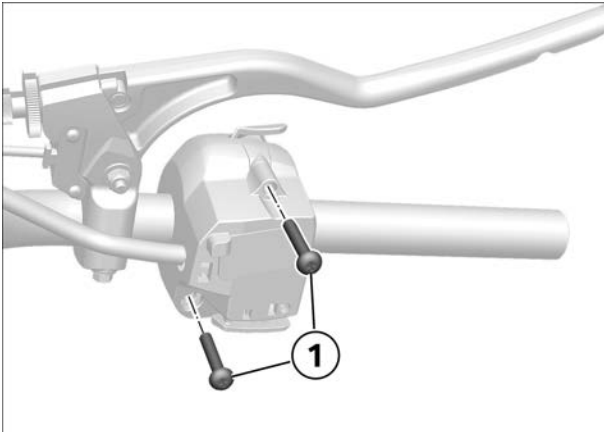
**Tightening torques**

<b>Left mirror (lock nut) to adapter</b>		
M10 x 1.25	22 Nm	

## 7

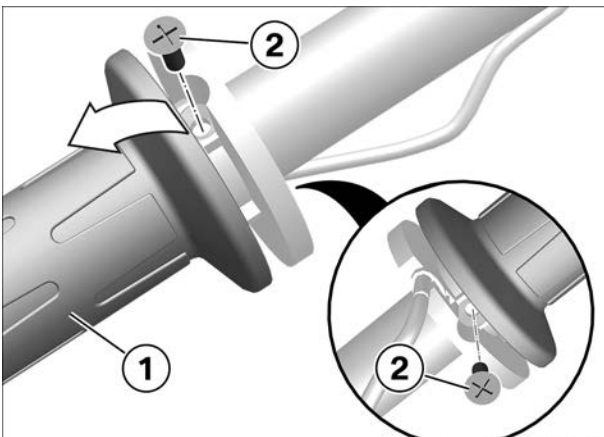
► **Secure multifunction switch, left**

- Hold multifunction switch **(1)** in position.
- Join housing halves of multifunction switch **(1)**, making sure that the lug (**arrow**) engages the hole in the handlebar.



- Install screws (1).

8

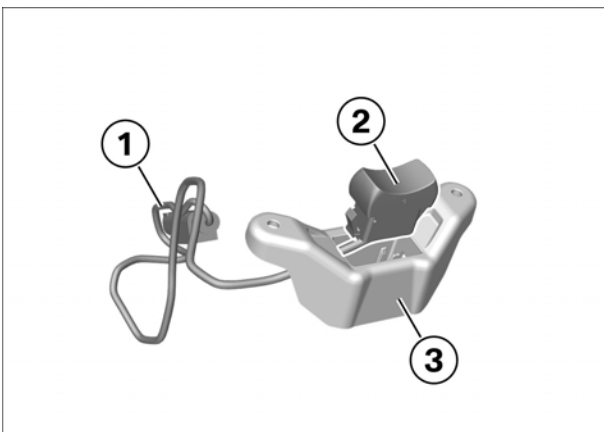


► **Installing the left heated grip**

- Push on heated grip (1).
- Bend rubber grip (Arrow) up on the inner edge.
- Install screws (2) at top and bottom up to the equipment.

Tightening torques		
Heated grip to handlebars		
M4 x 10, thread-tapping	2 Nm	

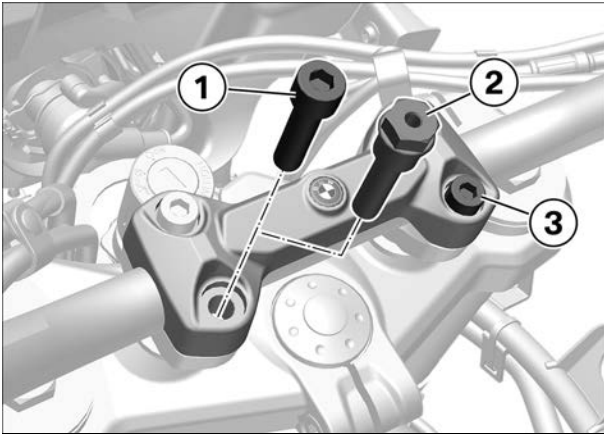
9



► **Inserting heated grip switch in holder**


- Work cable (1) for heated grip switch (2) through holder (3).
- Clip in heated grip switch (2) in holder (3). Switch engages audibly.


10



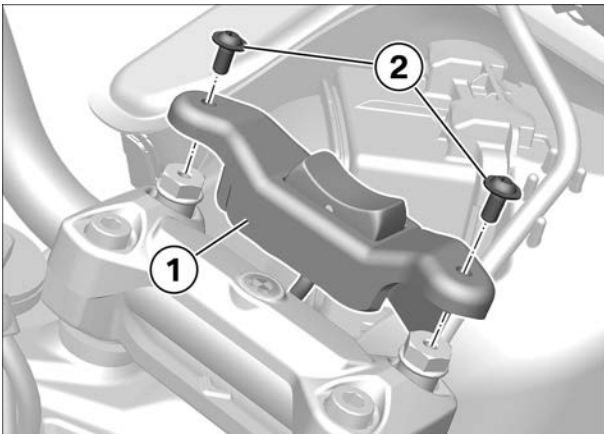
► **Installing the switch for grip heating**

- Remove bolt (1).
- Lubricate and install bolts (2).

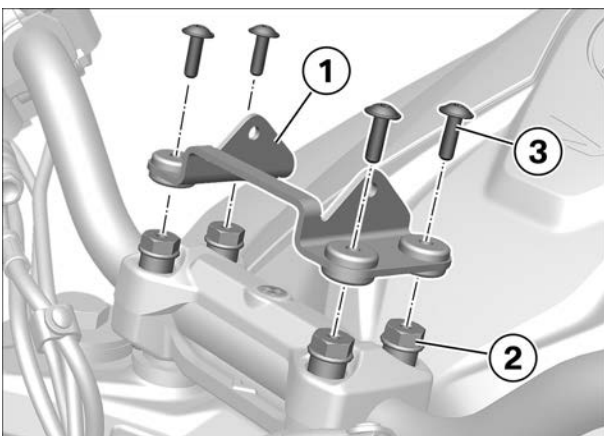
 <b>Tightening torques</b>		
<b>Handlebar to handlebar clamp</b>		
M8 x 30	19 Nm	

 <b>Lubricant</b>	
MP 3 paste	07 55 9 062 476

- Replace bolt (3) in the same way by a bolt (2).
- Position switch (1) and install with screws (2).



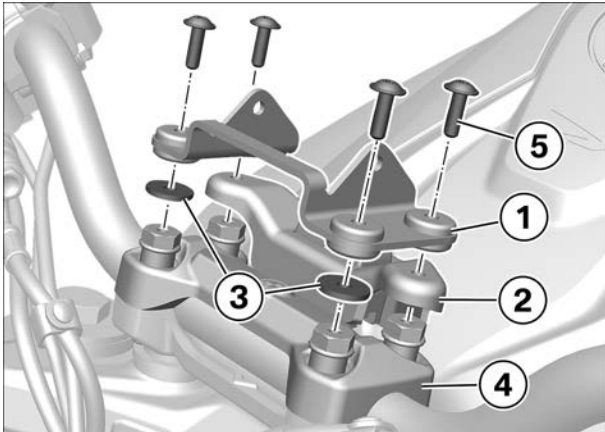
11



– with holder for BMW MotorradNavigator<sup>OA</sup>

► **Installing the switch for grip heating**

- Remove screws (3).
- Release holder for navigation system (1) from bolts (2).



- Position switches for grip heating (1) and holder for navigation system (2) with washers (3) on handlebar clamping block (4).
- Install screws (5).◇

12

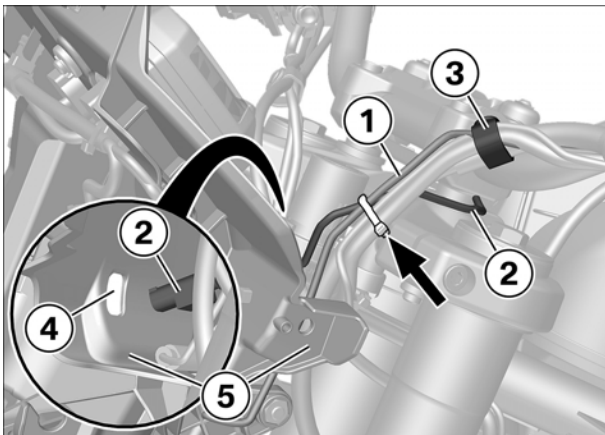
► Routing the cable from the left heated grip and connector

**⚠ WARNING**

Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.

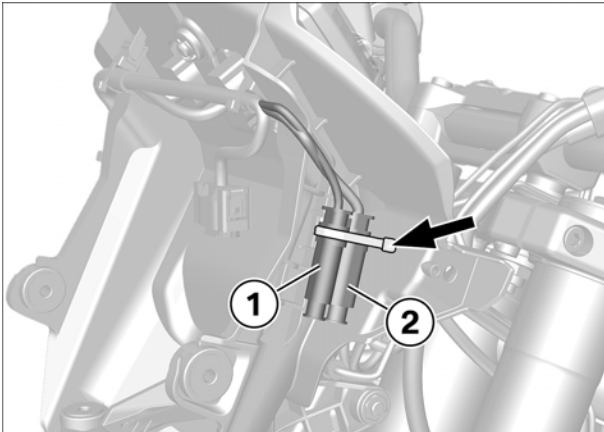
Impairment of road safety.

- Check the freedom of movement of the handlebars.

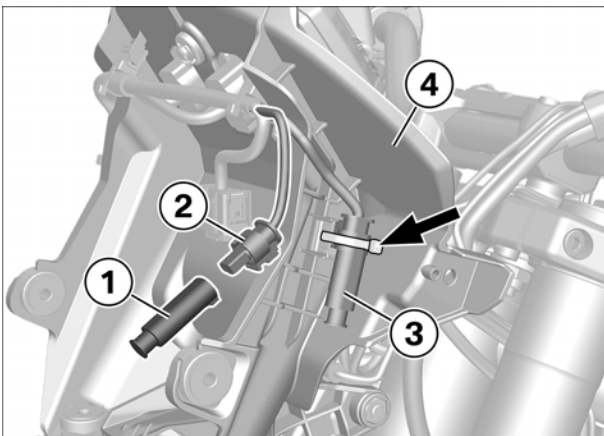


- Work cable (1) for left heated grip and cable (2) for heated grip switch down.
- Secure cable (1) for left heated grip with tensioning belt (3).
- Work cable (2) for heated grip switch with opening (4) through front panel carrier (5) to the front.
- Secure the cable strap (arrow).

## 13

▶ **Exposing connector**

- Remove cable strap (**arrow**).
- Exposing connector **(1)** or connector **(2)** for power supply.



- Remove blind cap **(1)** from connector **(2)**.
- Secure remaining connector for power supply **(3)** again with cable strap (**Arrow**) on front panel carrier **(4)**.

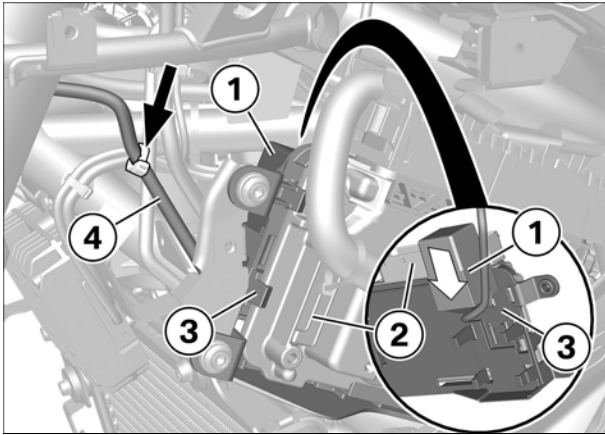
## 14

▶ **Installing the relay box with the wiring harness**
**⚠ WARNING**

**Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.**

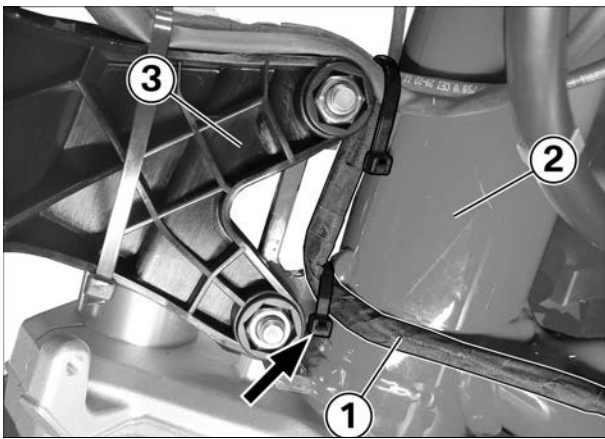
Impairment of road safety.

- Check the freedom of movement of the handlebars.



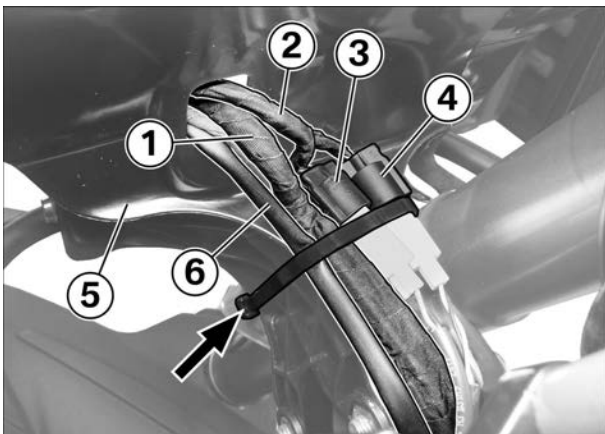
- Connect relay box (1) on rear side of control unit (2) to support (3) for control unit.
- Route wiring harness (4) for relay box to the front and secure with cable strap (Arrow).

# 15

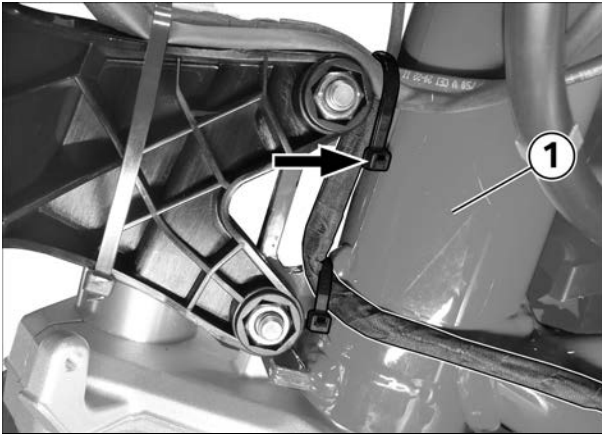


► **Routing cable and connecting connector**

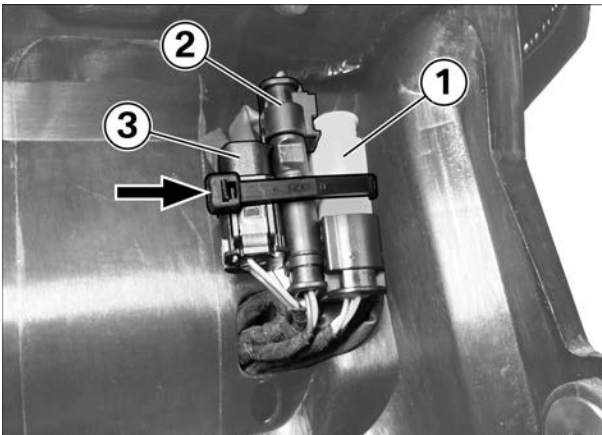
- Route wiring harness (1) for relay box on frame (2) and front panel carrier (3) to the front
- Secure the cable strap (arrow).



- Route wiring harness (1) for relay box, except cable (2) with connector (3) and (4) for heated grips, through opening in front panel carrier (5) to the front.
- Connect connectors (3) and (4) for heated grips and position together with wiring harness (1) for relay box and cable (6) for heated grip switch on front panel carrier (5).
- Secure the cable strap (arrow).



- Secure cable strap (**Arrow**) on frame (**1**).



- Connect connector for heated grip switch (**1**). Lay excess cable length in loops.
- Connect connector for power supply (**2**).
- Connect connector for optional accessories (**3**) (with blind cap).
- Secure plug connections with cable strap (**Arrow**).

## 16

### ► Follow-up work

- Installing right handlebar weight
- Installing left handlebar weight
- Installing headlight
- Installing front mask with windscreen
- Installing top front-wheel cover
- Installing right radiator cowl
- Installing cover for fuel tank
- Installing cover for right intake snorkel
- Installing cover for left intake snorkel
- Installing seat
- Checking headlight beam throw
- Final check of work performed

## 0G41 - G 310 R

### 77 22 185 Installing heated handlebar grips

#### 1

##### ► Preparatory work

- Removing and installing the rear-wheel stand special tool (motorcycles without centre stand) (Description in item: 46 52 510, Billed as a separate item)
- Removing seat
- Removing cover for fuel tank
- Removing right radiator cowl
- Removing front mask with turn indicator
- Disengaging headlight
- Remove the left handlebar weight
- Remove the right handlebar weight



#### 2

##### ► Removing throttle grip unit

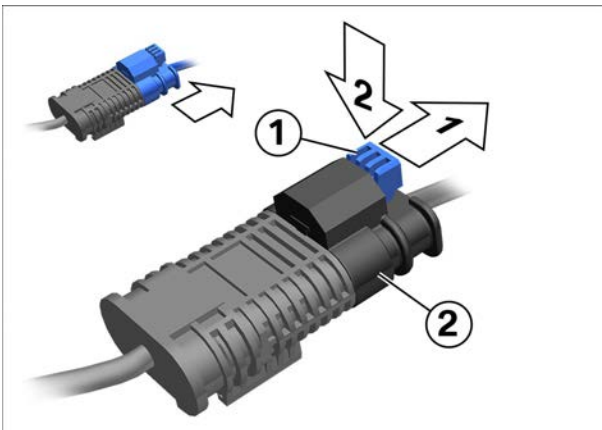
##### ▷ Information for disconnecting vibration-resistant connectors

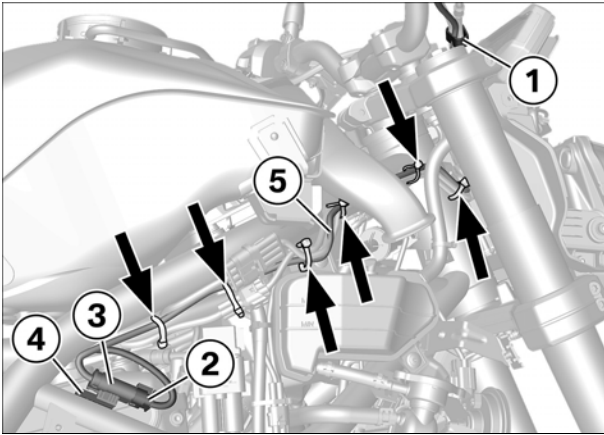
##### ATTENTION

##### Disconnection of the connector not in compliance with correct procedure

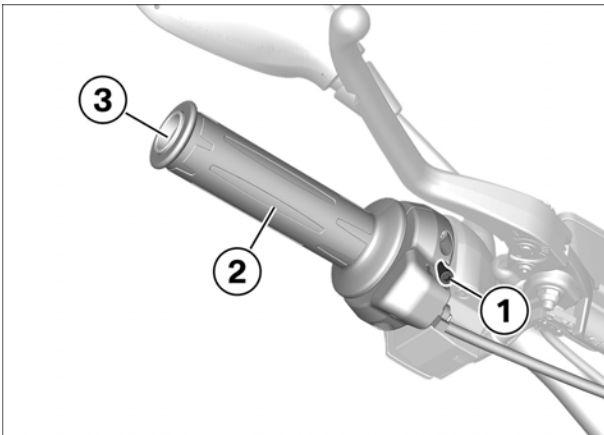
Damage to locking tab

- 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)**.



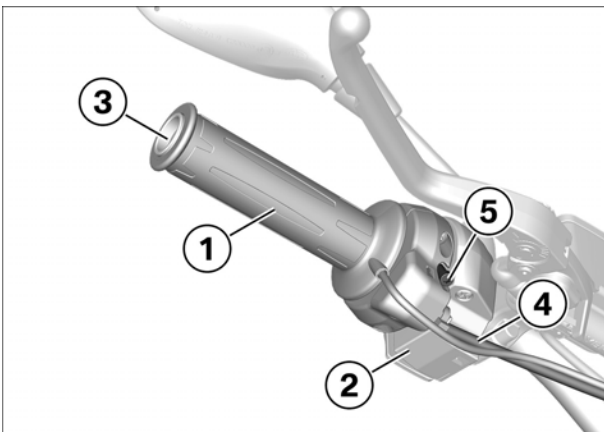


- Remove the cable strap (**arrows**).
- Remove tensioning strap (**1**).
- Disconnect connector (**2**).
- Loosen connector (**3**) from holder (**4**) and work cable (**5**) for throttle grip unit clear to the top.



- Loosen bolt (**1**).
- Pull off throttle grip unit (**2**) from handlebars (**3**).

### 3



#### ► Installing new throttle grip unit

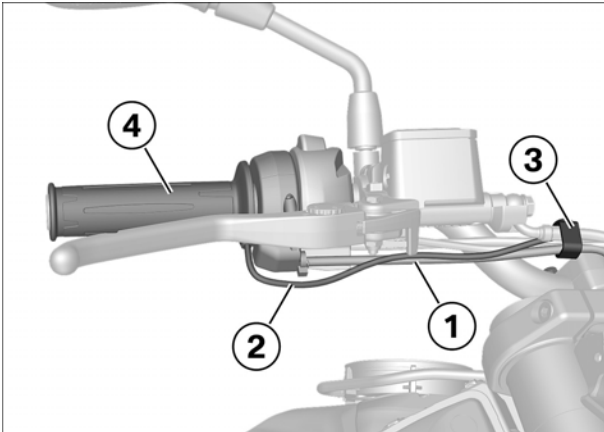
##### **⚠ WARNING**

**Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.**

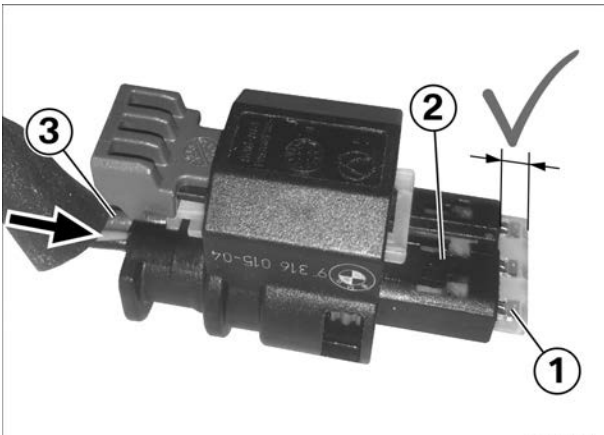
Impairment of road safety.

- Check the freedom of movement of the handlebars.

- Slide new throttle grip unit (**1**) to multifunction switch (**2**) on handlebars (**3**).
- Select position of throttle grip unit (**1**) so that the cable (**4**) is not bent by the multifunction switch (**2**).
- Tighten screw (**5**).

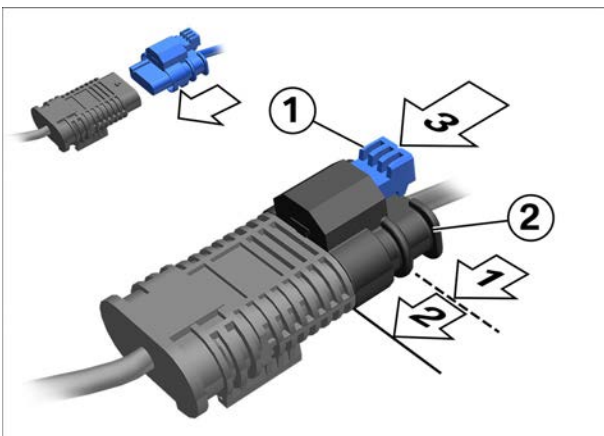


- Route cable for throttle grip unit **(1)** and cable for heated grip **(2)** and work down.
- Route cable for heated grip **(2)** through front panel carrier to the front.
- Install tensioning strap **(3)**.
- Ensure freedom of movement of cable for heated grip **(2)** when operating the throttle grip **(4)**.

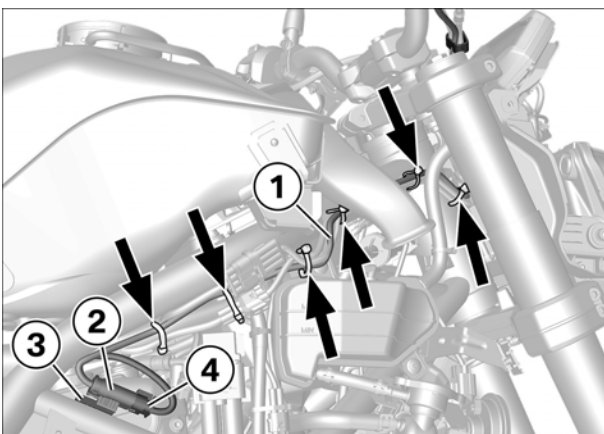


▷ **Information for connecting vibration-resistant connectors**

- 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

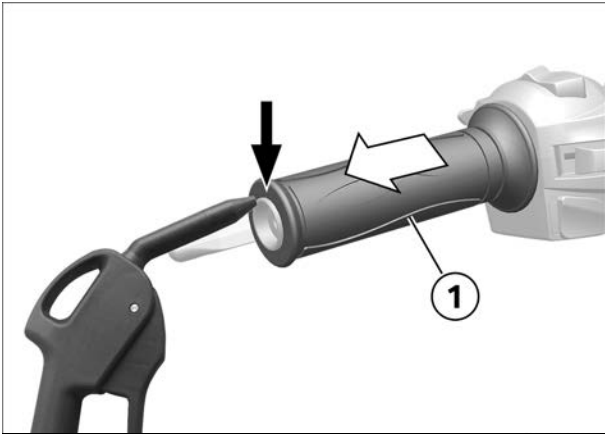


- Ensure that the release tab **(1)** is unlocked.
- Slide connector **(2)** in direction of arrow **(arrow 1)**.
  - » The connector **(2)** engages audibly.
- Slide connector **(2)** in direction of arrow **(arrow 2)** further.
  - » The connector **(2)** engages audibly.
- Slide locking tab **(1)**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




- Route cable for throttle grip unit **(1)**.
- Secure connector **(2)** on holder **(3)**.
- Connect connector **(4)**.
- Close the cable strap **(arrows)**.

4



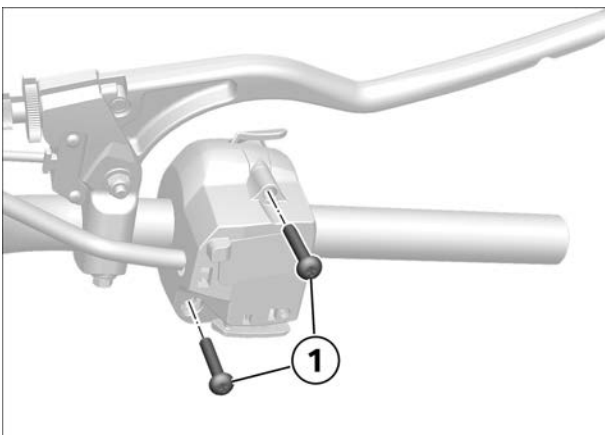
► **Removing left handlebar grip**

- Lift the edge of handlebar grip **(1)** (**Arrow**), spray brake cleaner and spread it under handlebar grip **(1)** with compressed air.

 <b>Cleaner</b>	
Brake cleaner	83 19 2 154 780

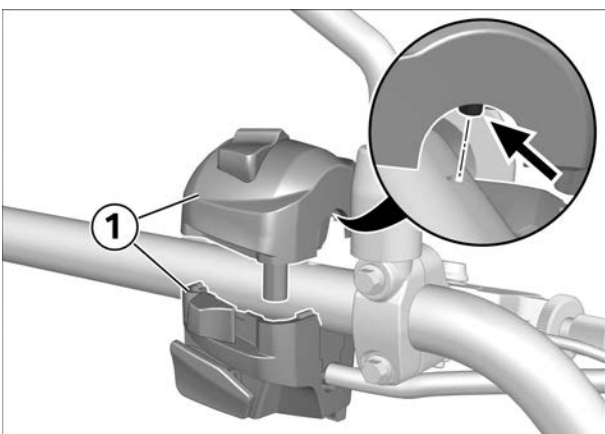
- Pull off handlebar grip **(1)**.

5



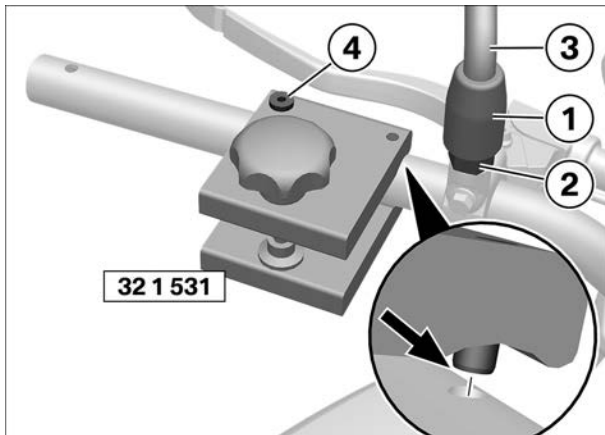
► **Removing left multifunction switch**

- Remove screws **(1)**.



- Separate housing halves of multifunction switch **(1)**, noting the lug (**arrow**).
- Loosen multifunction switch **(1)** and let it hang from the cable.

## 6

► **Preparing handlebars for left heated grip**

- Slide rubber grommet **(1)** up.
- Loosen lock nut **(2)** and loosen mirror **(3)**.
- Insert drilling template (32 1 531) with the retaining pin into the multifunction switch bore hole **(Arrow)** and clamp tight.
- Drill through the handlebars through the drill sleeve **(4)** from top and bottom and clean off swarf **several times** from drill sleeve **(4)**.

**Technical data**

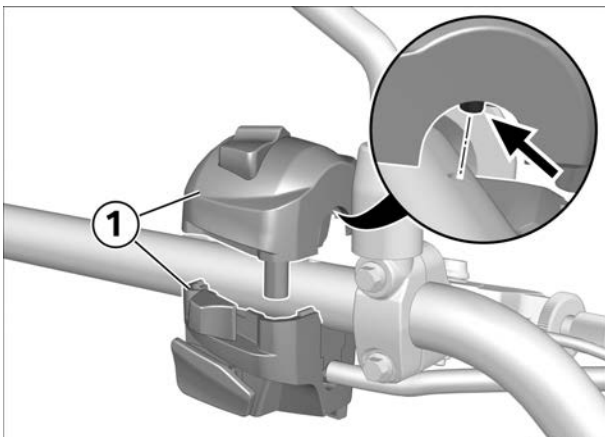
Hole diameter for left heated grip	Twist drill Ø	3.5 mm	
------------------------------------	---------------	--------	--

- Remove drilling template (32 1 531).
- Secure mirror **(3)** with lock nut **(2)** and push rubber grommet **(1)** on.

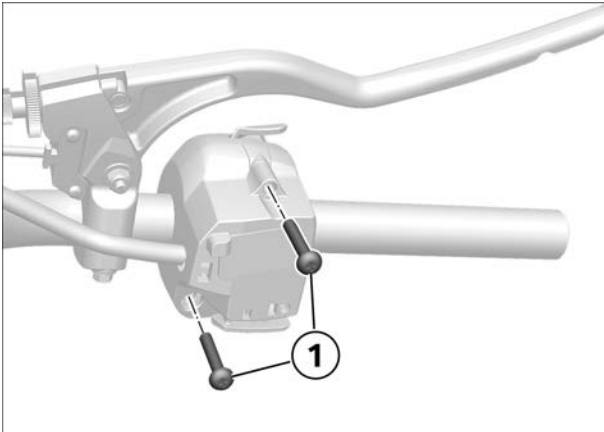
**Tightening torques**

<b>Left mirror (lock nut) to adapter</b>		
M10 x 1.25	22 Nm	

## 7

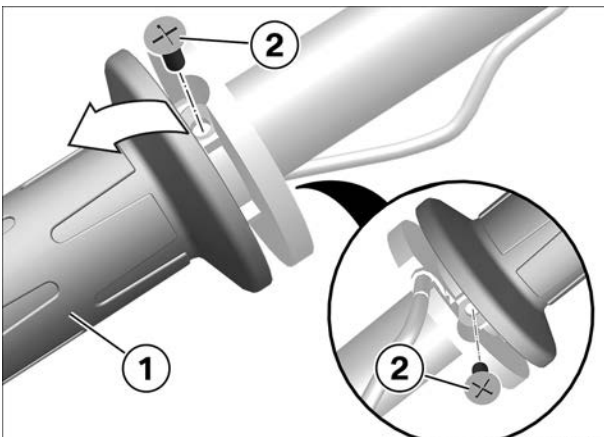
► **Secure multifunction switch, left**

- Hold multifunction switch **(1)** in position.
- Join housing halves of multifunction switch **(1)**, making sure that the lug **(arrow)** engages the hole in the handlebar.



- Install screws (1).

8

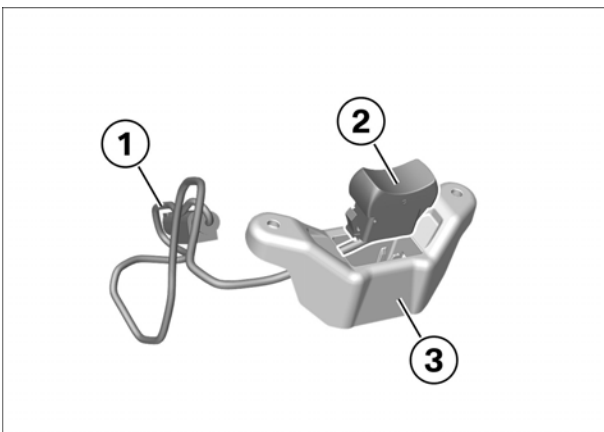


► **Installing the left heated grip**

- Push on heated grip (1).
- Bend rubber grip (Arrow) up on the inner edge.
- Install screws (2) at top and bottom up to the equipment.

Tightening torques		
Heated grip to handlebars		
M4 x 10, thread-tapping	2 Nm	

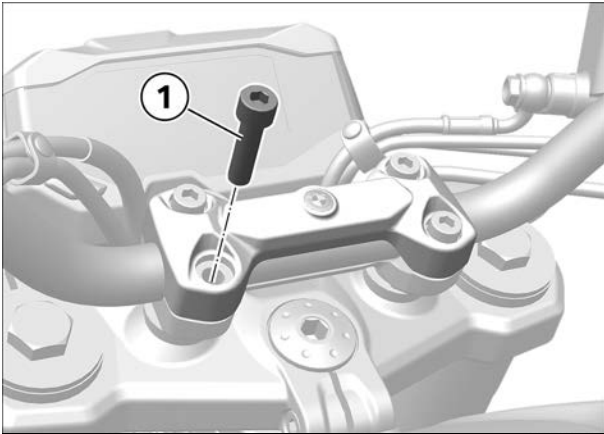
9



► **Inserting heated grip switch in holder**

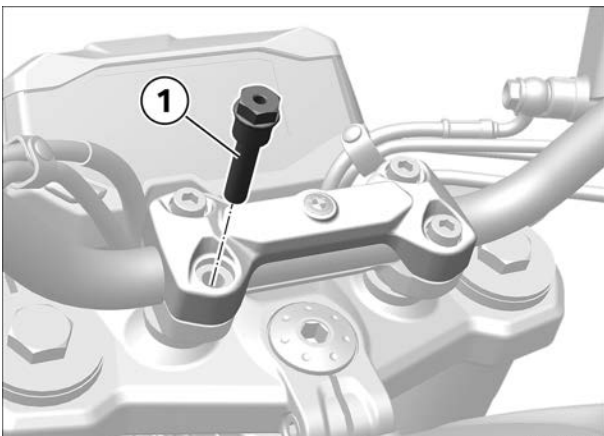
- Work cable (1) for heated grip switch (2) through holder (3).
- Clip in heated grip switch (2) in holder (3). Switch engages with audible click.

10




► **Installing the switch for grip heating**


- Remove bolt (1).

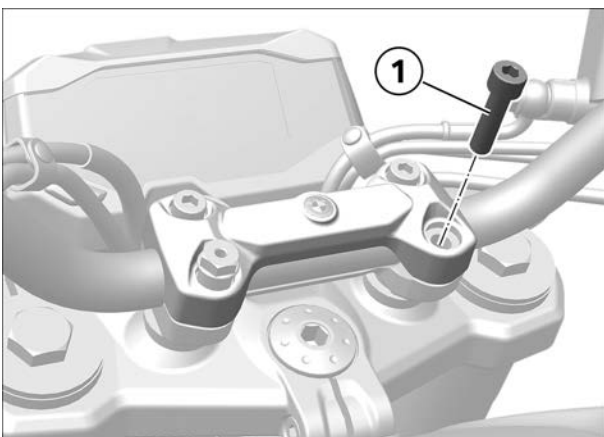


- Lubricate screw (1).

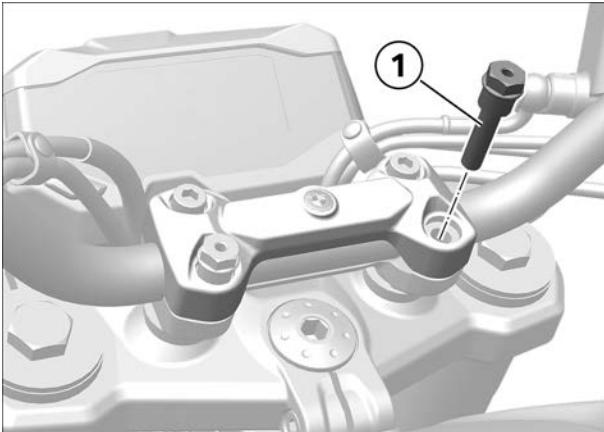
 <b>Lubricant</b>	
MP 3 paste	07 55 9 062 476

- Install bolt (1).

 <b>Tightening torques</b>		
<b>Handlebar to handlebar clamp</b>		
M8 x 30	19 Nm	



- Remove bolt (1).

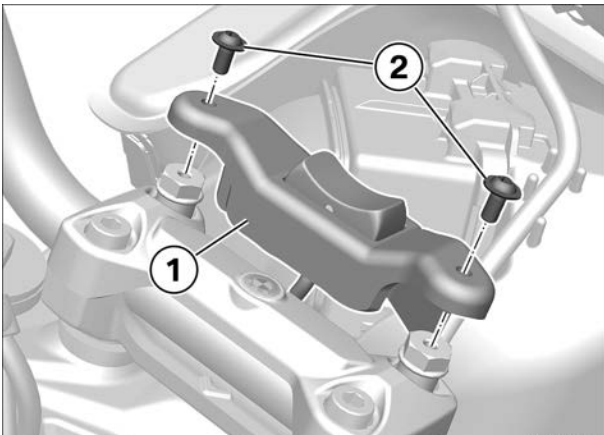


- Lubricate bolt (1).

🔧 Lubricant	
MP 3 paste	07 55 9 062 476

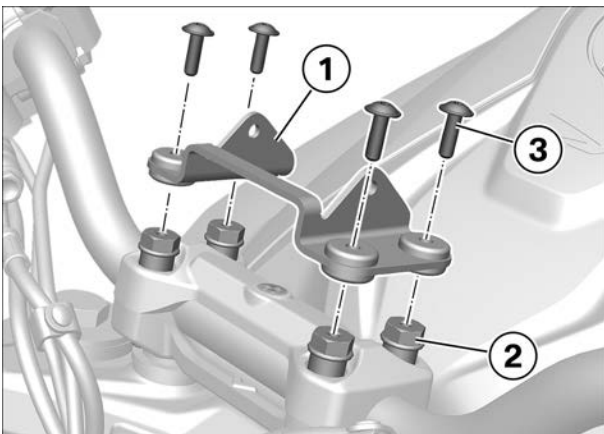
- Install bolt (1).

🔧 Tightening torques		
Handlebar to handlebar clamp		
M8 x 30	19 Nm	



- Position switch (1) and install with screws (2).

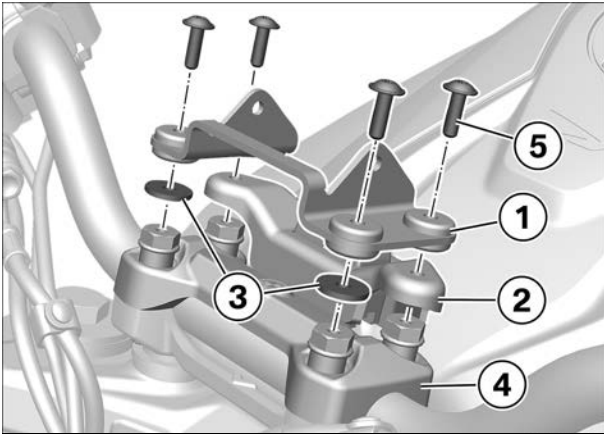
# 11



– with holder for BMW MotorradNavigator<sup>OA</sup>

## ▶ Installing the switch for grip heating

- Remove screws (3).
- Release holder for navigation system (1) from bolts (2).



- Position switches for grip heating (1) and holder for navigation system (2) with washers (3) on handlebar clamping block (4).
- Install screws (5).◇

## 12

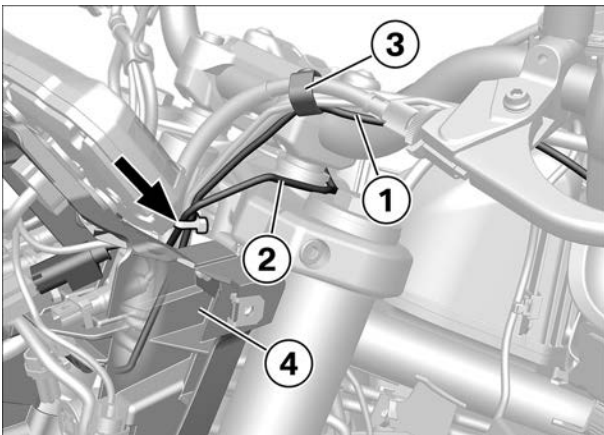
### ► Routing cable of left heated grip and heated grip switch

#### **⚠ WARNING**

**Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.**

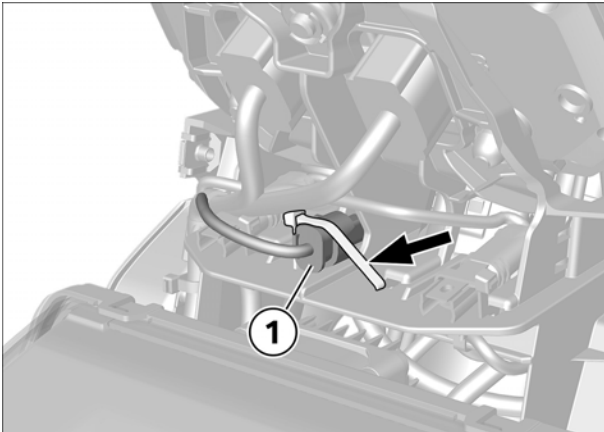
Impairment of road safety.

- Check the freedom of movement of the handlebars.



- Work cable for left heated grip (1) and cable for heated grip switch (2) down.
- Install tensioning strap (3).
- Route cable (1) and cable (2) through front panel carrier (4) to the front.
- Secure the cable strap (arrow).

## 13



## ► Exposing connector

- Remove cable strap (**arrow**).
- Expose connector (**1**) for power supply and remove blind cap.

## 14

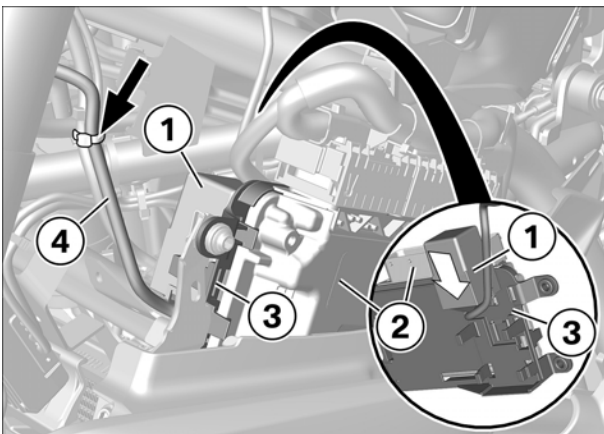
## ► Installing the relay box with the wiring harness

**⚠ WARNING**

Steering angle constrained by routing of cables or Bowden cables not in compliance with correct procedure.

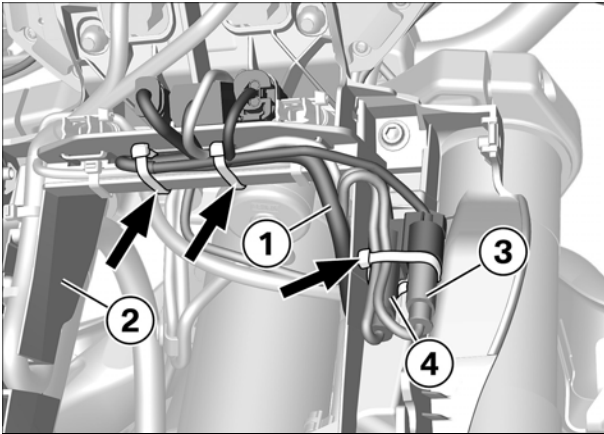
Impairment of road safety.

- Check the freedom of movement of the handlebars.

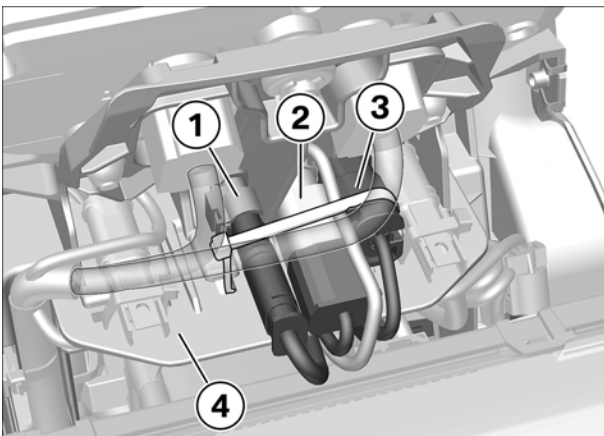


- Connect relay box (**1**) to back side of control unit (**2**) on support for control unit (**3**).
- Route wiring harness (**4**) through front panel carrier to the front and secure with cable strap (**arrow**).

## 15

► **Routing cable and connecting connector**

- Route wiring harness (1) on front panel carrier (2).
- Connect connector for heated grips (3) and (4).
- Close the cable strap (arrows).



- Connect connector for power supply (1).
- Connect connector for heated grip switch (2).
- Position connector for optional accessories with blind cap (3).
- Secure plug connections together with cable strap (arrow) on front panel carrier (4).

## 16

► **Follow-up work**

- Installing right handlebar weight
- Installing left handlebar weight
- Securing headlight
- Installing front mask with turn indicator
- Installing right radiator cowl
- Installing cover for fuel tank
- Installing seat
- Checking headlight beam throw
- Final check of work performed

# Service Information Bulletin

General Electrical Systems

June 4, 2021

61 07 21

## RETROFITTING HEATED GRIPS



### MODEL

E-Series	Model Description
K02/11	G 310 GS
K03/11	G 310 R

### SITUATION

Workshop installation guide "Installing heated grips" not yet available in AIR.

Installation instructions have been modified due to updated wiring harness routing and arrangement.

### PROCEDURE

These documents will be added to AIR in the fall of 2021. In the meantime, please use the attached instructions appropriate for the model of motorcycle being retrofitted.

### QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Contact the BMW Technical Support Group via TSARA
Warranty inquiries	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Motorrad Parts Department