

77 51 001 Installing LED auxiliary headlights

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Equipment trim-level variant:

LED auxiliary headlights^{OA}



Note

The LED auxiliary headlights have an overheat cutout. The headlights automatically reduce their brightness if a certain temperature is reached; under extreme circumstances the headlights can even switch themselves off. The headlights return to full brightness once they have cooled down sufficiently.

Preparatory work

Removing rear seat

Removing front seat

Removing centre cover for fuel tank

Removing left side panel

Removing left side cover

Removing left cover for fuel tank

Removing right side panel

Removing right side cover

Removing right cover for fuel tank

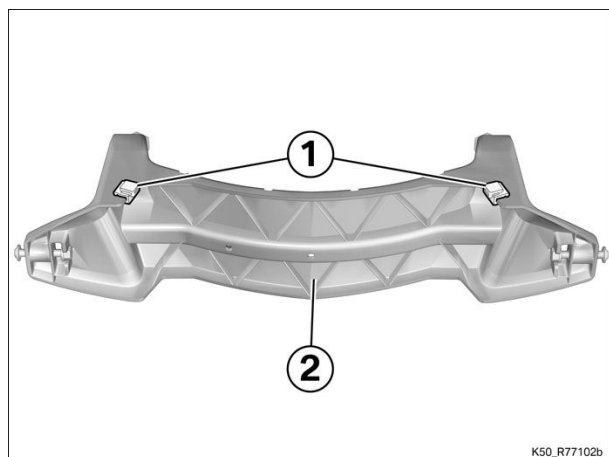
Removing top front-wheel cover

Removing left intake air pipe

Core activity

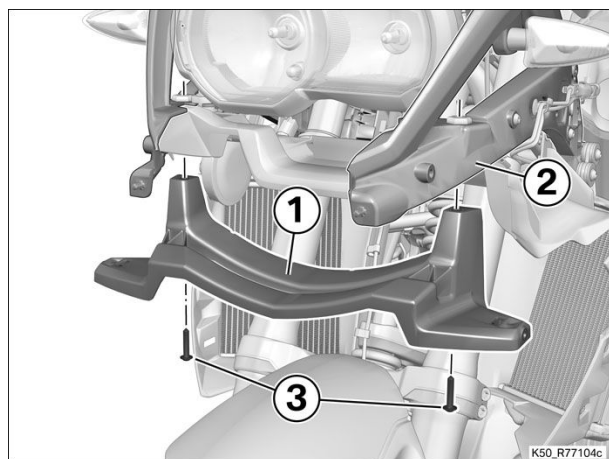
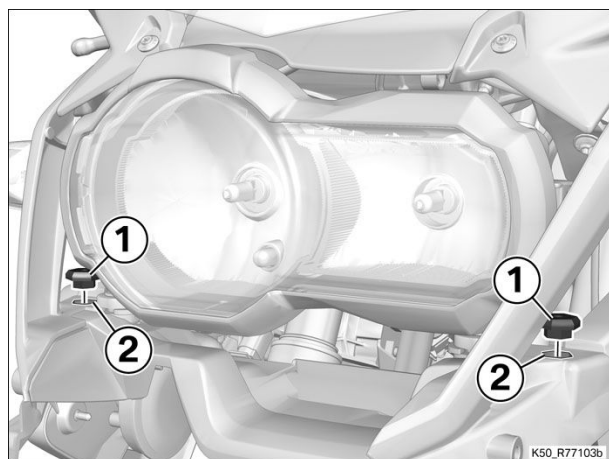
(-) Holder for cable tie to bracket for auxiliary headlight

- Install holder (1) for cable tie on bracket (2) for auxiliary headlight.




(-) Installing bracket for LED auxiliary headlight

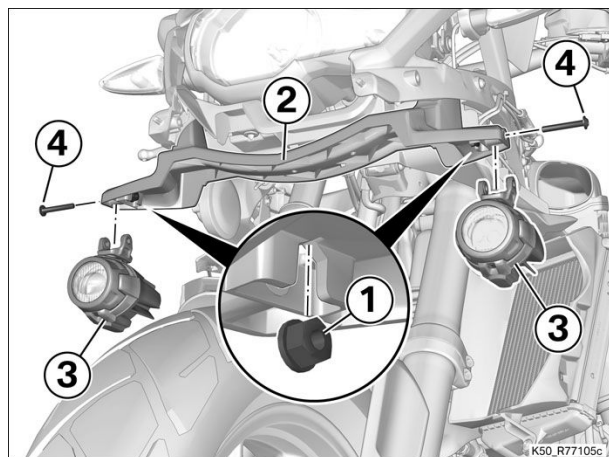
- Insert threaded bushes (1) into front panel carrier (2).




- From below, work bracket (1) for the LED auxiliary headlight into position on front panel carrier (2).
- Install screws (3).

 Tightening torques		
Bracket, LED auxiliary headlight to front panel carrier		
M6 x 30	8 Nm	
Thread-locking compound (mechanical)		
or, Thread-locking compound (Loctite 243, Medium strength)		

(-) Installing LED auxiliary headlight



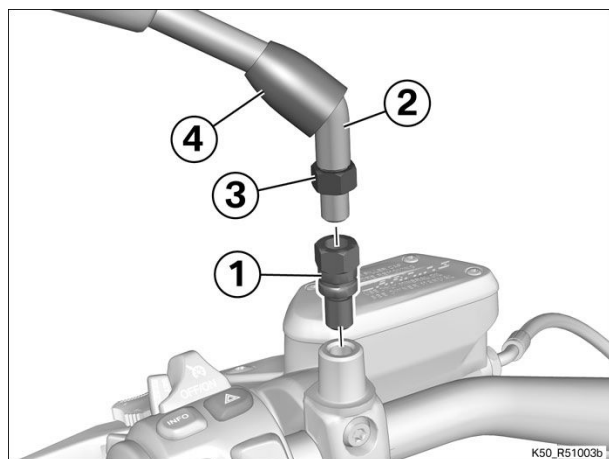
- Install nuts (1) in bracket (2).
- Hold LED auxiliary headlight (3) in position at bracket (2).
- Install screws (4).

 Tightening torques		
LED auxiliary headlight to bracket		
M6 x 40	6 Nm	

(-) Installing switch for LED auxiliary headlights

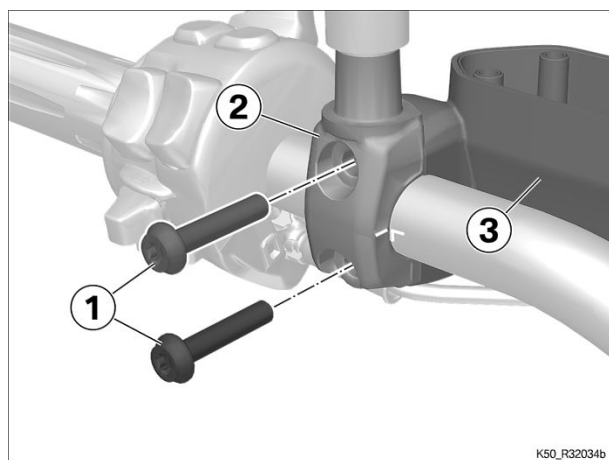
► Removing left mirror

- Push back cover (4).
- Slacken locknut (3).
- Remove mirror (2) and left/right adapter (1).



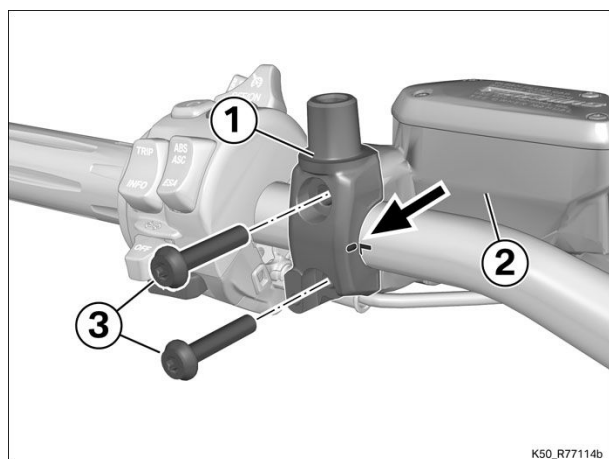
► **Removing clamping block**


- Remove screws (1).
- Remove clamping block (2) from handlebar fitting (3).



► **Installing clamping block for handlebar fitting for clutch**


- Hold clamping block (1) in position at handlebar fitting (2).
- Loosely install screws (3).
- Position handlebar fitting (2) at the marks (arrow).
- Tighten screws (3).

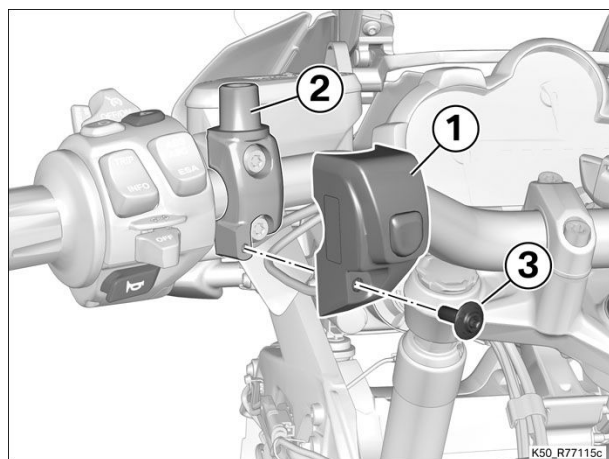


 Tightening torques		
Handlebar fitting to handlebar		
M6 x 30	8 Nm	




- Hold switch for LED auxiliary headlights (1) in position at clamping block (2).
- Install screw (3).

 Tightening torques		
Additional switch to clamping block		
M5 x 14	3 Nm	




► **Installing left mirror**

- Install left/right adapter (1).

 Tightening torques		
Adapter to clamping block		
M10 x 14 - 4.8	25 Nm	

- Install mirror (2) and adjust it to the correct position.
- Tighten locknut (3).

 Tightening torques		
Mirror (lock nut) to adapter		
Left-hand thread, M10 x 1.25	22 Nm	

- Slip cover (4) over the threaded fastener.



(-) Routing and securing connecting line for switch for LED auxiliary headlight

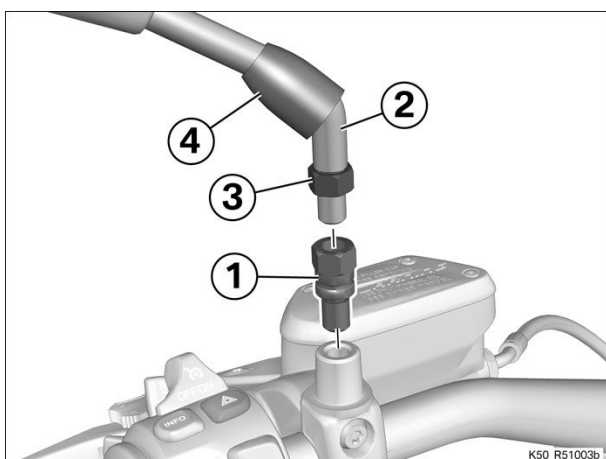


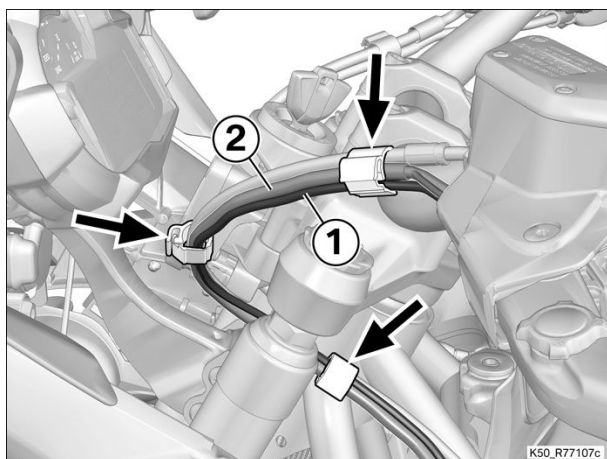
Warning

Incorrectly routed cables and Bowden cables can impede movement of the handlebars and impair road safety.

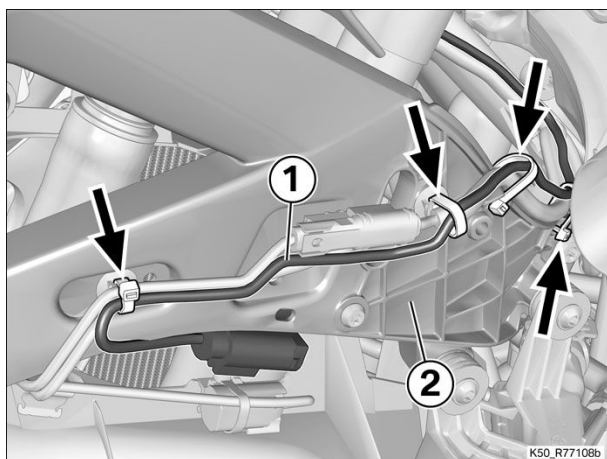
Make sure that the handlebars are free to turn through their full arc of movement.

- Open the holders (arrows).
- Route connecting line (1) down parallel to wiring harness (2).
- Insert connecting line (1) into the holders (arrows) and close.



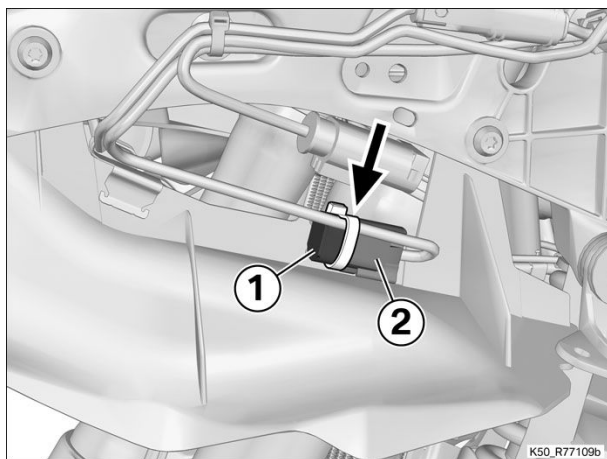


- Remove the original cable ties (arrows) and re-secure connecting line (1) to front panel carrier (2) with the cable ties (arrows) and lines disengaged beforehand, if applicable, at the same positions.



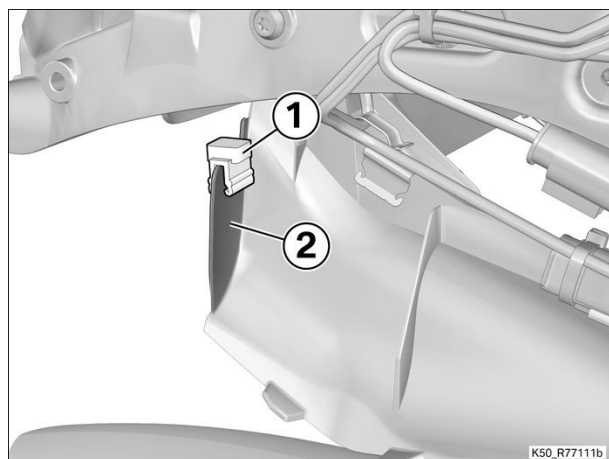
(-) Removing protective cap from connecting plug

- Remove the cable tie (arrow).
- Remove protective cap (1) from connecting plug (2).

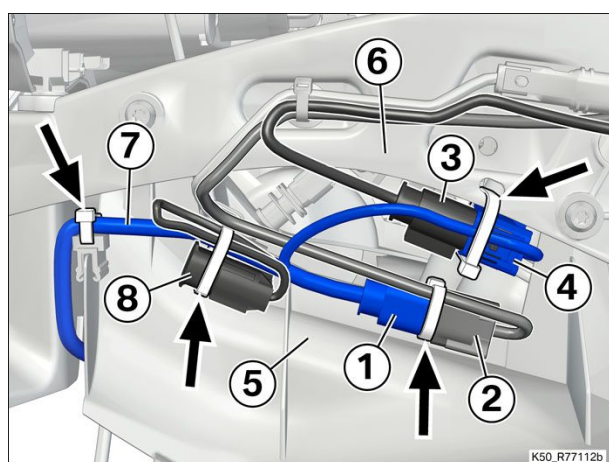


(-) Installing holder for cable tie on front cover

- Install holder for cable tie (1) on front panel (2).

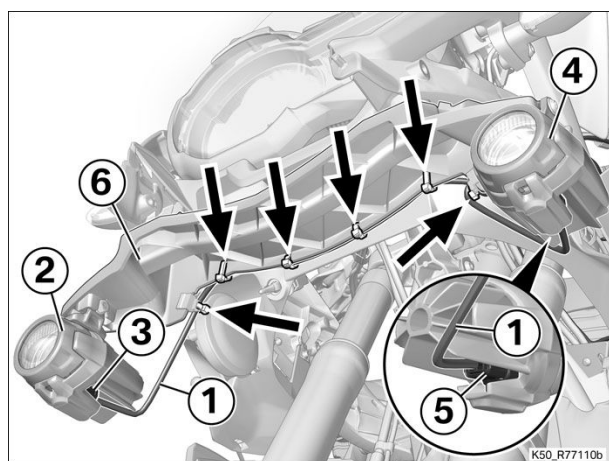


(-) Connecting switch for LED auxiliary headlight and LED auxiliary headlight



- Connect plug of connecting line for LED auxiliary headlights (1) to plug for LED auxiliary headlights (2).
- Connect plug for switch for LED auxiliary headlights (3) to plug of line branch (4).
- Secure plug (1), (2) and connecting line with cable tie (arrow) to front panel (5).
- Secure plug (3), (4) and line branch with cable tie (arrow) to front panel (6).
- Route connecting line for LED auxiliary headlights (7) further forward and secure with cable tie (arrow).
- Secure plug for daytime riding lights (8) and excess length of cable with cable tie (arrow) to connecting line for LED auxiliary headlights (7).

(-) Connecting and routing connecting line for LED auxiliary headlight



- Route **long** branch of connecting line (1) to right LED auxiliary headlight (2) and connect plug (3).
- Route **short** branch of connecting line (1) to left LED auxiliary headlight (4) and connect plug (5).
- Secure connecting line (1) with cable ties (arrows) to bracket (6).

Finishing work

Removing battery cover

Connecting **BMW Motorrad** diagnostic system to vehicle

Performing software update with **ISTA/P**

Disconnecting **BMW Motorrad** diagnostic system from vehicle

- Installing battery cover
- Installing left intake air pipe
- Installing top front-wheel cover
- Positioning left cover for fuel tank
- Positioning right cover for fuel tank
- Installing centre cover for fuel tank
- Securing right cover for fuel tank
- Installing right side cover
- Installing right side panel
- Securing left cover for fuel tank
- Installing left side cover
- Installing left side panel
- Installing front seat
- Installing rear seat
- Adjusting LED auxiliary headlights
- Final check of work performed