Parts and Accessories.
Installation Instructions.

TV function retrofit kit
BMW Z4 (E85)

These installation instructions are only valid for cars with SA 609 (navigation system)

Retrofit kit No. 65 50 304,675

Installation time
The installation time is 3.0 hours, but this may vary depending on the condition of the car and the equipment in it.

Important information
These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

In any event the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

All work must be completed using the latest BMW repair manuals, circuit diagrams, servicing manuals and work instructions in a rational order using the prescribed tools (special tools) and observing current health and safety regulations.

Ensure that the cables/lines are not kinked or damaged as you install them in the car. The costs incurred as a result of this will not be reimbursed by BMW AG.

Additional cables/lines that you install must be secured with cable ties.
If the specified PIN chambers are occupied, bridges, double crimps or twin-lead terminals must be used.
All the figures show LHD cars, proceed in exactly the same way on RHD cars.

Pictograms

⚠️ Denotes instructions that draw your attention to dangers.

📺 Denotes instructions that draw your attention to special features.

⚠️ denotes the end of the instruction or other text.

See the EBA CD or Aftersales Portal for explanations of the pictograms.

Do not archive the hard copy of these installation instructions since daily updates are made by Aftersales Portal.

Subject to technical modifications.
Installation information
Some of the installation of the aerial is shown only on the left-hand side of the car, proceed in the same way on the right-hand side of the car.

Ordering instructions
The boot bulkhead trim is not included in the installation kit and must be ordered separately (see EPC for part number).

List of special equipment
The following special equipment must be taken into consideration when installing the retrofit kit:

SA 609  Navigation system

Information on operation
The TV function is only active when the car is at a standstill.

Special tools required
65 5 400  Release bar
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1. Parts list

Legend

A Adapter cable
B Aerial cable
C Felt
D Video module holder
E Bumper aerial
F Video module
G Aerial booster
H Boot trim (not included in kit)
I Hexagonal nut with washer M5 (4x)
J Securing rivet for the TV aerial (8x)
K Press-stud (4x)
L Clip (2x)
M Cable tie (15x)
## 2. Preparations

<table>
<thead>
<tr>
<th>Conduct a brief test</th>
<th>TIS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disconnect the negative pole of the battery</td>
<td>12 00...</td>
</tr>
</tbody>
</table>

The following components must be removed first of all

<table>
<thead>
<tr>
<th>Item</th>
<th>TIS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear bumper trim</td>
<td>51 12 156</td>
</tr>
<tr>
<td>Left boot – wheel arch trim</td>
<td>51 47 151</td>
</tr>
<tr>
<td>Aerial booster</td>
<td>65 20 110</td>
</tr>
<tr>
<td>Trim for boot bulkhead</td>
<td>51 47 140</td>
</tr>
<tr>
<td>Flap on the rear oddments box</td>
<td>51 16 239</td>
</tr>
<tr>
<td>Trim for rear storage box</td>
<td>51 16 235</td>
</tr>
<tr>
<td>Navigation computer</td>
<td>65 90 140</td>
</tr>
</tbody>
</table>
### 3. Connection diagram

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Signal</th>
<th>Cable colour / Cross-section</th>
<th>Connection location in the car</th>
<th>Abbreviation / Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Adapter cable</td>
<td>---</td>
<td>---</td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>A1</td>
<td>18-pin BL socket casing</td>
<td>---</td>
<td>---</td>
<td>To navigation computer <strong>A112</strong></td>
<td>X1313</td>
</tr>
<tr>
<td>A2</td>
<td>18-pin BL plug casing</td>
<td>---</td>
<td>---</td>
<td>To standard wiring harness plug, 18-pin BL socket casing</td>
<td>X1313</td>
</tr>
<tr>
<td>A3</td>
<td>WS 18-pin socket casing</td>
<td>---</td>
<td>---</td>
<td>To video module holder <strong>A197</strong></td>
<td>X18804</td>
</tr>
<tr>
<td>A4</td>
<td>18-pin BL socket casing</td>
<td>---</td>
<td>---</td>
<td>To video module <strong>A197</strong></td>
<td>X18806</td>
</tr>
<tr>
<td>B</td>
<td>Aerial cable</td>
<td>---</td>
<td>---</td>
<td>Between aerial booster and video module <strong>A197</strong></td>
<td>---</td>
</tr>
<tr>
<td>B1</td>
<td>Aerial plug, 2-pin SW</td>
<td>---</td>
<td>---</td>
<td>To the aerial booster</td>
<td>---</td>
</tr>
<tr>
<td>B2</td>
<td>Angle plug</td>
<td>---</td>
<td>---</td>
<td>To video module <strong>A197</strong></td>
<td>---</td>
</tr>
</tbody>
</table>
4. Installation and cabling diagram

Legend

A  Adapter cable
B  Aerial cable
E  Bumper aerials
F  Video module
G  Aerial booster

1  Navigation computer
5. To install the video module and connect the adapter cable

Affix the felt C to the holder D.

Insert the video module F into the holder D and secure it with a hexagonal nut I.

Place the video module and holder (1) on the stud bolt and secure it with a hexagonal nut I.

Thread the adapter cable A through the opening (1) into the interior.
5. To install the video module and connect the adapter cable

Connect branches A3 and A4 on the adapter cable A to the same coloured cables on the video module F.

Connect branch B2 to the video module F.

Route the aerial cable B from the video module F to the rear closing panel.

Route the adapter cable A through the holder for the navigation computer (1).
5. To install the video module and connect the adapter cable

Connect branch A2 to plug X1313, BL from the navigation computer.
6. To install and connect the bumper aerial

Secure the bumper aerial E on the bumper trim (1) with fastening rivets J.
Install the bumper aerial E on both sides.

Secure the connection cable (2) on the bumper trim using cable ties M.

Remove the sealing stopper (1).

Press the aerial cable through the holder (2) into the boot and push in the sealing stopper (1).
6. To install and connect the bumper aerial

Proceed in exactly the same way on the right-hand side.

Screw the nut and washer (3) from the earth stud (1).
Screw the aerial capacitor (2) to the earth stud using a nut and washer (3).

Bolt the holder (1) to the aerial booster G.

Connect the aerial cable (3) and radio-on signal (4) to the same coloured cables on the aerial booster G.

Connect branch B1 and the aerial cables for the bumper aerial (2) to the same coloured cables on the aerial booster G.
7. Concluding work and coding

- Connect the battery
- Code the retrofit using DISPlus, MoDiC III or GT-1 via path Retrofit
- Conduct a brief test
- Conduct a function test
- Re-assemble the car.
8. Circuit diagram
8. Circuit diagram

Legend

A112  Navigation computer
A197  Video module

X812  Terminal 30 connector
X18344 18-pin plug
X18804 18-pin plug
X18806 18-pin plug

X1313  18-pin plug
X13016  Earth connector
X18344  I bus connector
X18804  18-pin plug
X18806  18-pin plug

Cable colours

BR  Brown
GE  Yellow
GN  Green
GR  Grey
RT  Red
SW  Black
VI  Violet
WS  White