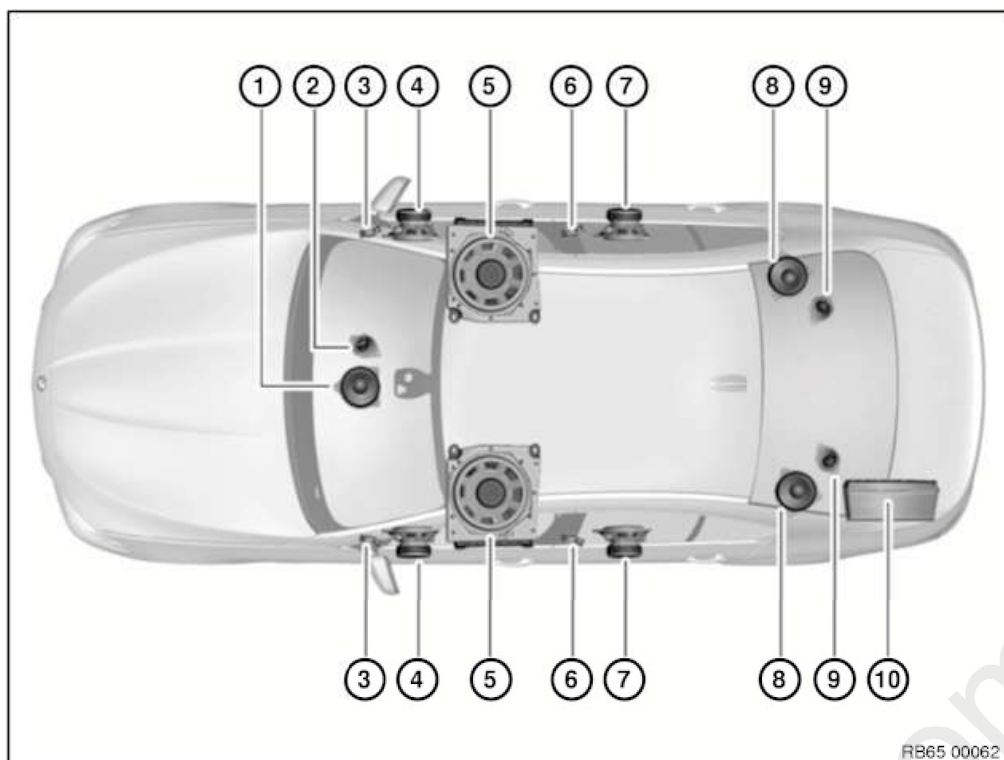
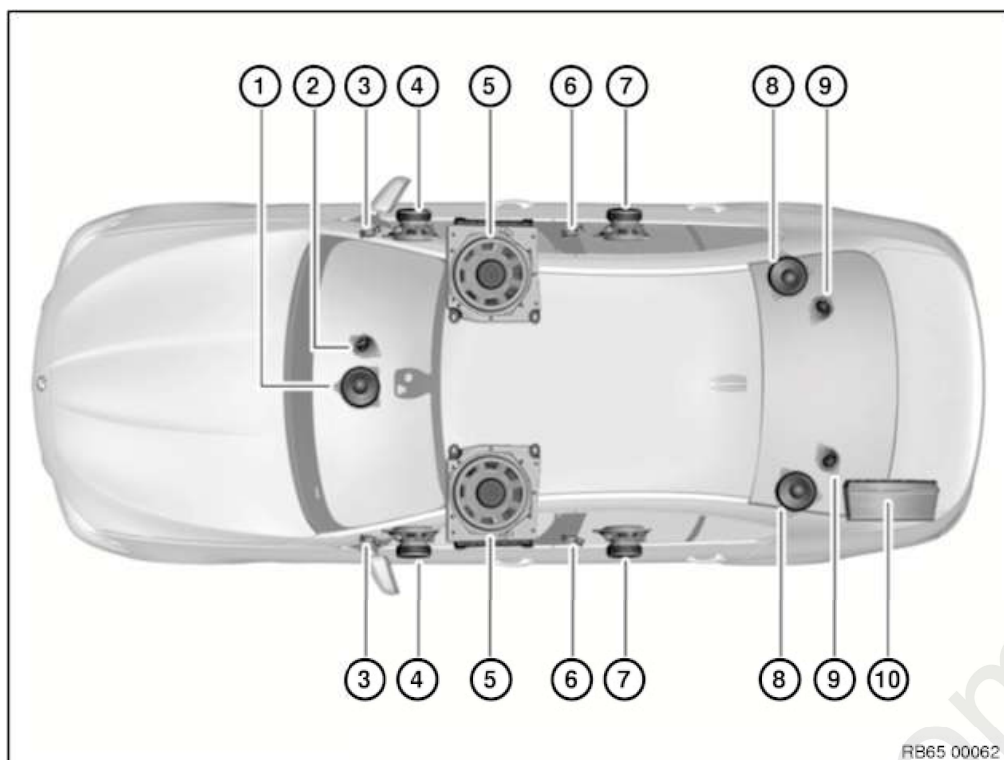


65 13 ... Overview of audio components



- | | |
|---|---|
| 1 Mid-range speaker, front (centre) | 6 Tweeter in rear side trim panel |
| 2 Tweeter, front (centre) | 7 Mid-range speaker in rear side trim panel |
| 3 Tweeter mirror triangle | 8 Mid-range speaker storage shelf |
| 4 Mid-range speaker, door, front | 9 Tweeter storage shelf |
| 5 Bass speaker under front seat | 10 Amplifier |

65 13 ... Overview of audio components



- | | |
|---|---|
| 1 Mid-range speaker, front (centre) | 6 Tweeter in rear side trim panel |
| 2 Tweeter, front (centre) | 7 Mid-range speaker in rear side trim panel |
| 3 Tweeter mirror triangle | 8 Mid-range speaker storage shelf |
| 4 Mid-range speaker, door, front | 9 Tweeter storage shelf |
| 5 Bass speaker under front seat | 10 Amplifier |

65 12 210 Removing and installing/replacing CHAMP radio receiver (BMW Professional radio)



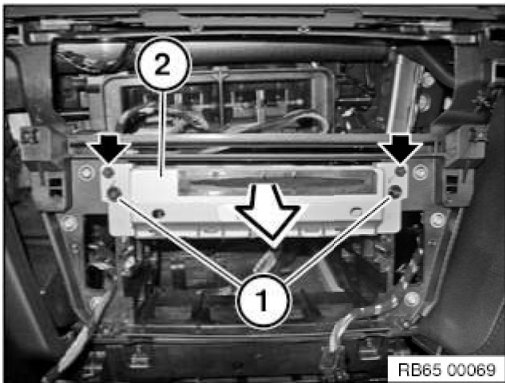
Important!

Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).



Necessary preliminary tasks:

- Disconnect [battery negative cable](#)
- Remove [radio and IHKA controls](#)

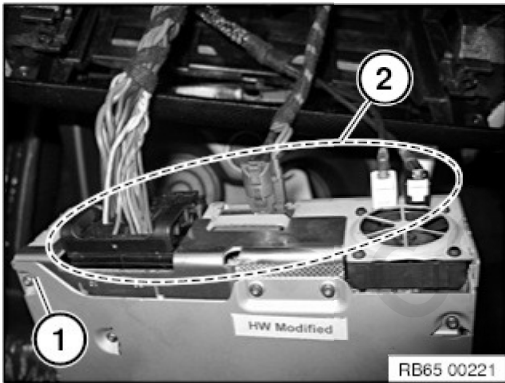


Release screws (1).

Pull out the CHAMP (2) to the front.

Installation note:

Make sure CHAMP (2) is correctly seated on retaining lugs at the marked points.



Unlock plug connections (2) and disconnect.

Remove CHAMP (1).



Replacement:

Carry out [vehicle programming/encoding](#).

For vehicles with Teleservices optional equipment:

- Update services via menu in the central information display.

Load service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

**Special tools required:**

- [00 9 325](#)

**Important!**

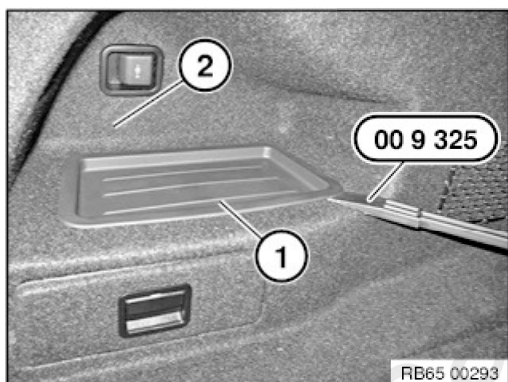
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

**Note:**

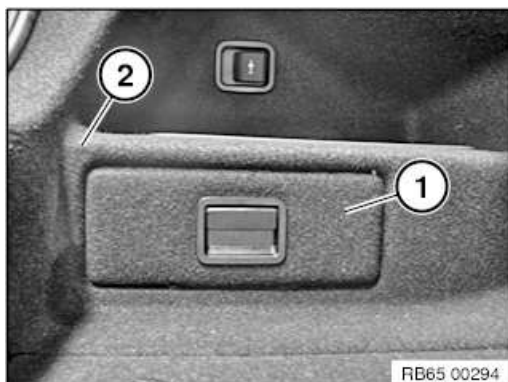
Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary tasks:**

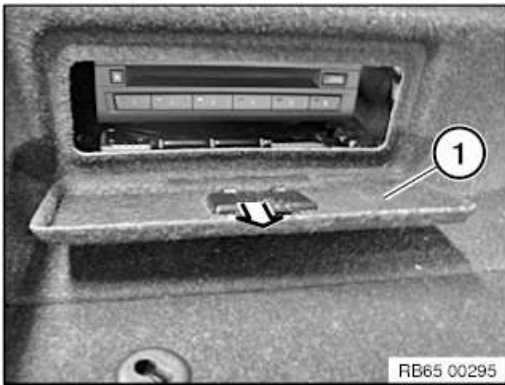
- Disconnect [battery earth lead](#)



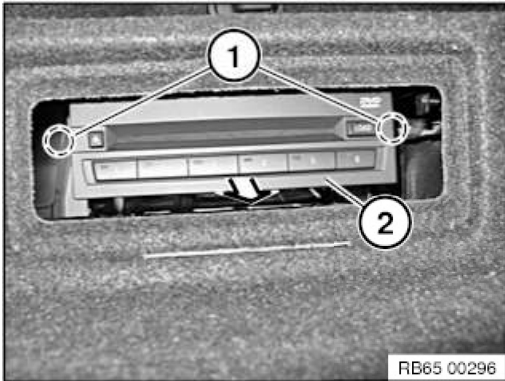
Use special tool [00 9 325](#) to remove luggage compartment floor storage tub (1) from left luggage compartment wheel arch panel (2).



Open flap (1) of luggage compartment wheel arch panel (2).



Remove flap (1) in direction of arrow.



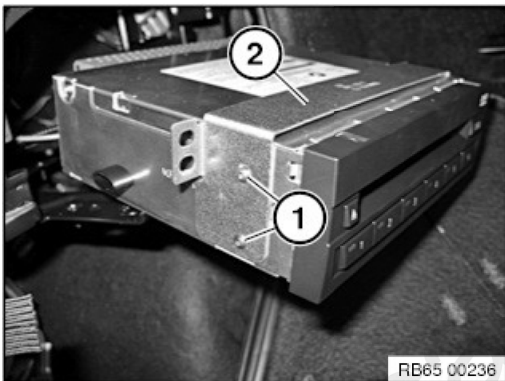
Note:

Secure screws (1) against falling out.

Release screws (1).

Slightly pull out DVD changer (2) and unlock and disconnect related plug connection.

Remove DVD changer (2).



Replacement:

Release left and right screws (1).

Remove retaining bracket (2) from DVD changer.



Replacement:

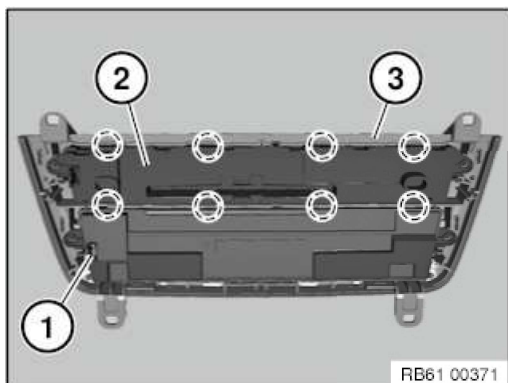
Carry out [vehicle programming/coding](#).

**Important!**

Read and comply with notes on protection against electrostatic damage ([ESD protection](#)).

**Necessary preliminary tasks:**

- Remove [radio and IHKA controls](#)



Disconnect plug connection (1).

Unclip audio operating unit (2) at the marked points using a suitable tool (such as a screwdriver - 3 mm blade).

Remove the audio operating unit (2) from the cover (3) toward the rear.

Installation note:

Audio control unit (2) must noticeably and audibly snap into cover (3).

65 12 ... Install the correct navigation map (after replacing the head unit as from 07/2015)

Install the correct navigation map depending on the validity of the customer subscription after having replaced the head unit for vehicles with a production date as from 07/2015.

Different cases:

Customer subscription is **still valid**:

- Install the most recent navigation map.

Customer subscription has **expired**:

- Check when the customer subscription expired*.
- Install the navigation map applicable on the expiry date.

The customer subscription has **expired**. **After the expiry** of his/her subscription, the customer **purchased a newer version of the navigation map** ("One Time Update"):

- Check which navigation map was installed most recently*.
- Install this navigation map

* The information required to determine the term of the customer subscription is available in the following path:

After-sales Information Research (AIR)

- Navigation map

The following table is displayed in the "Navigation map" menu:

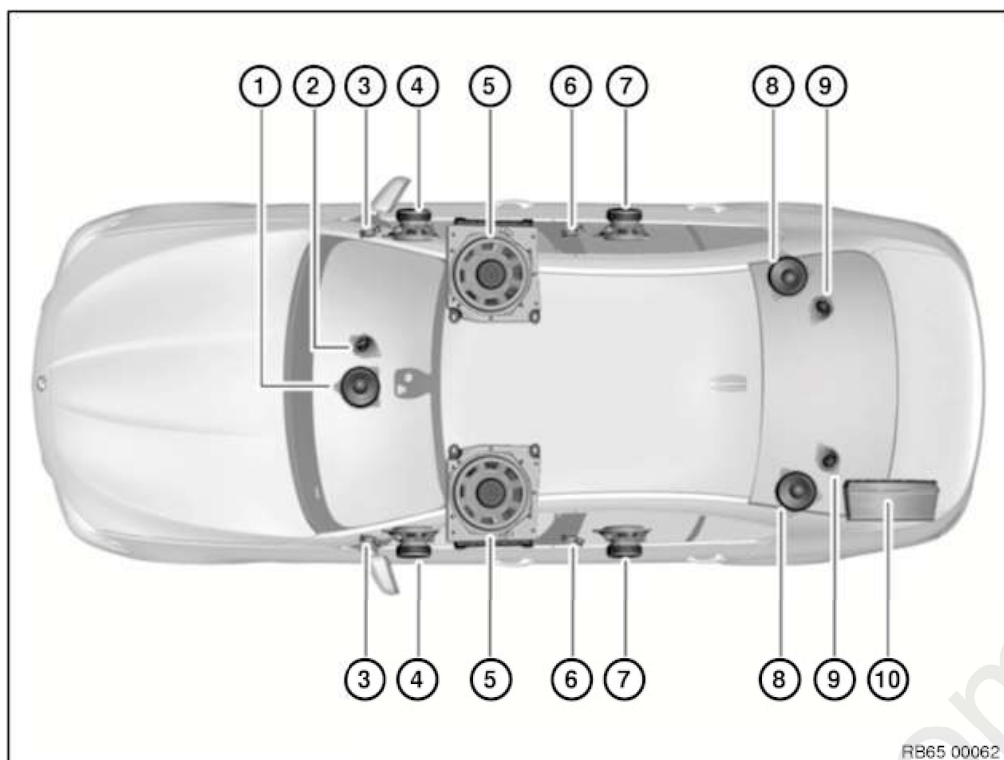
Installed map (Status with date)	Enabling code (Subscription)	Free update	Update subject to a charge
In this field the currently installed map with year specification is displayed. (E.g. navigation map Europe 2015)	Displayed in this field is: • Validity of the subscription (E.g. valid until 31.10.2017) • or an enabling code for "One Time Update"	Displayed in this field is: • During a valid subscription of the current, free enabling code • The last functional, free enabling code is shown if the subscription or "One time update" has expired	Displayed in this field is: • The field is empty during a valid subscription • The next available, most recent enabling code subject to a charge if the subscription or "one time update" has expired

Go to the following path for more information on navigation, such as update variants, new features and compatibility tables:

After-sales Assistance Portal (ASAP)

- Product information bulletin
- 07 Infotainment and communication
- 03 Navigation update

65 13 ... Overview of audio components



- | | |
|---|---|
| 1 Mid-range speaker, front (centre) | 6 Tweeter in rear side trim panel |
| 2 Tweeter, front (centre) | 7 Mid-range speaker in rear side trim panel |
| 3 Tweeter mirror triangle | 8 Mid-range speaker storage shelf |
| 4 Mid-range speaker, door, front | 9 Tweeter storage shelf |
| 5 Bass speaker under front seat | 10 Amplifier |

65 12 053 Remove and install/replace the central bass on the passenger's side (under the front seat)



Operation is identical to:

[Removing and installing central bass speaker -driver's side-](#)

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**Attention!**

Risk of damage!

There is a hard disk installed in the headunit.

Carry out mechanical work on the headunit and adjacent components with care.

Avoid subjecting the headunit to vibration/shocks.

**Attention!**

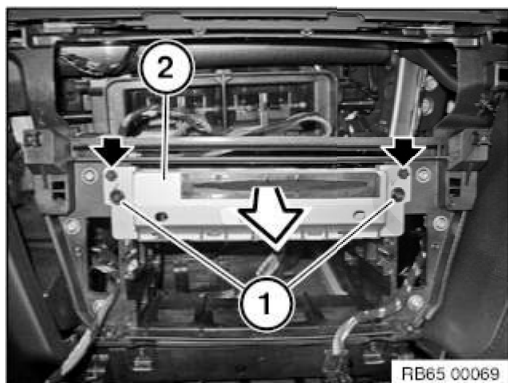
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

**Note:**

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary tasks:**

- Remove [radio and IHKA control panel](#)
- Disconnect [battery earth lead](#) (F03: Disconnect both battery earth leads).

**Note:**

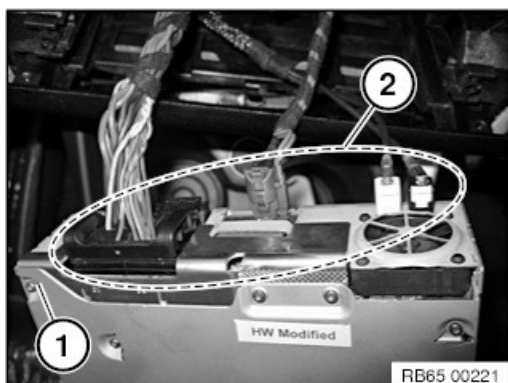
Picture for example purposes only!

Release screws (1).

Pull head unit (2) forward.

Installation note:

Check head unit (2) is correctly seated on retaining lug at marked points.



Unlock and disconnect all plug connections (2) in the marked area.

Remove headunit (1).



Only for US models with satellite radio:

Additional work is required when replacing the headunit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[Install correct navigation map in vehicles with production date starting from 07/2015.](#)

Additionally load service history for the following vehicles:

- 1 series and 2 series F2x, 3 series and 4 series F3x from series introduction
- F01, F02, F03, F07, F10, F11 with production date from 07/2013
- F06, F12, F13 with production date from 03/2014
- F15, F16 from volume production launch
- F18 with production date from 09/2013
- F25 with production date from 04/2014
- F26 as of series introduction

Importing the Service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

**Attention!**

Risk of damage!

There is a hard disk installed in the head unit.

Carry out mechanical work on the head unit and adjacent components with care.

Avoid subjecting the head unit to vibration/shocks.

**Attention!**

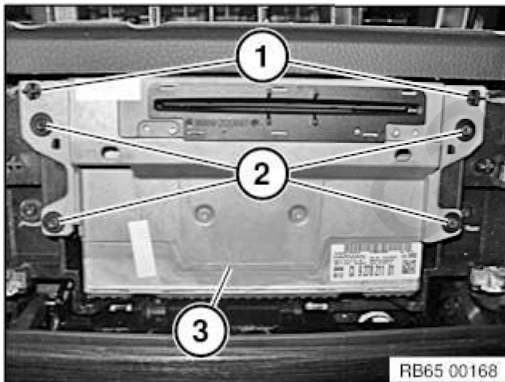
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

**Note:**

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary work:**

- Remove [radio and A/C control panel](#)
- Disconnect [battery earth lead](#) (F03: Disconnect both battery earth leads).

**Note:**

Picture for example purposes only!

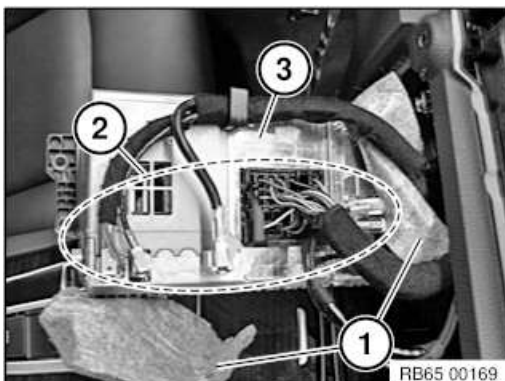
Unfasten screws (2).

Tightening torque [65 12 3AZ](#).

Pull headunit (3) out of guide.

Installation note:

Make sure head unit (3) is correctly seated in guide lugs (1).



Set the protective nonwoven material (1) aside as shown.

Unlock plug connections (2) and disconnect.

Remove headunit (3).



Only for US models with satellite radio:

Additional work is required when replacing the head unit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[Install correct navigation map in vehicles with production date starting from 07/2015.](#)

Additionally load service history for the following vehicles:

- 1 series and 2 series F2x, 3 series and 4 series F3x from series introduction
- F01, F02, F03, F07, F10, F11 with production date from 07/2013
- F06, F12, F13 with production date from 03/2014
- F15, F16 from volume production launch
- F18 with production date from 09/2013
- F25 with production date from 04/2014
- F26 as of series introduction

Importing the Service history:

- 05 Maintenance and Pre-Delivery Check
- Service history



Initialise component protection (only F15, F16, F85, F86):

After renewal of the BDC **or** after installation of a **used** head unit, the component protection in the head unit must be initialised once again.

For this purpose, the following steps must be carried out:

1. Request enabling code from Technical Support.
2. Apply the following immediate measures to reinitialise component protection using the diagnosis system:
 - Vehicle handling
 - Software update
 - Additional software
 - Initialisation of component protection in the head unit (HU)

Observe instructions without fail!

**Attention!**

Risk of damage!

There is a hard disk installed in the headunit.

Carry out mechanical work on the headunit and adjacent components with care.

Avoid subjecting the headunit to vibration/shocks.

**Attention!**

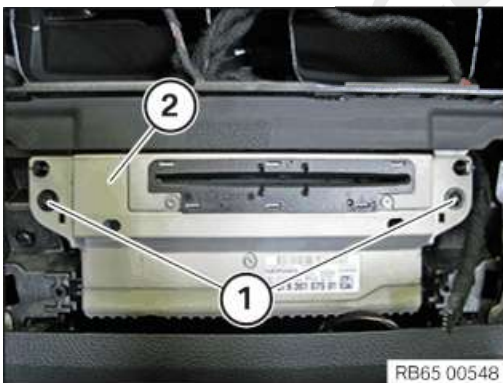
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

*Note:*

Comply with notes and notes on [handling optical fibres](#).

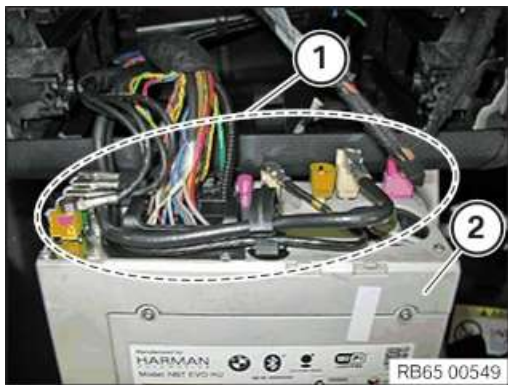
**Necessary preliminary tasks:**

- Remove [radio and IHKA control panel](#)
- Disconnect [battery earth lead](#)

**Removal:**

Release screws (1).

Pull the HU-H (2) out forward.



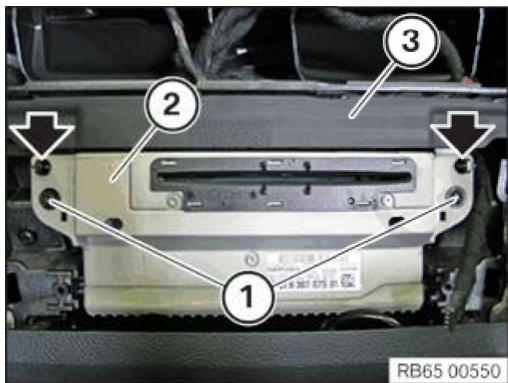
Unlock and disconnect all connectors (1) in marked area.
Remove HU-H (2).



Installation:



Position HU-H (2).
Connect and lock all the connectors (1) in the marked area.



Slide the HU-H (2) toward the back into the instrument panel (3).
Tighten down screws (1).

Note:

Make sure the HU-H (2) is correctly seated on the retaining lugs at the marked points.



Required reworking:

- Install the [radio and IHKA control panel](#)
- Connect [battery earth lead](#)



Only for US models with satellite radio:

Additional work is required when replacing the headunit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[On vehicles with a production date as from 07/2015, install the correct navigation map.](#)

Importing the Service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

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**Important!**

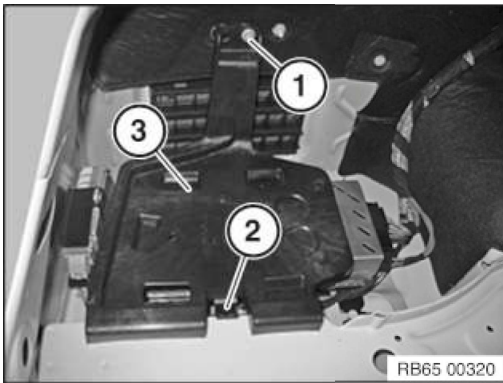
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

*Note:*

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Partially remove [luggage compartment wheel arch panel on left](#)



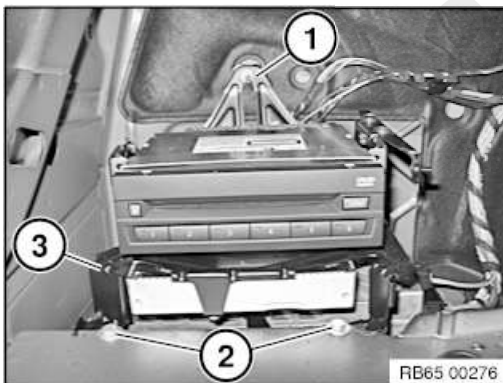
Slacken nut (1).

Unlock catch (2).

Remove cover (3).

Installation note:

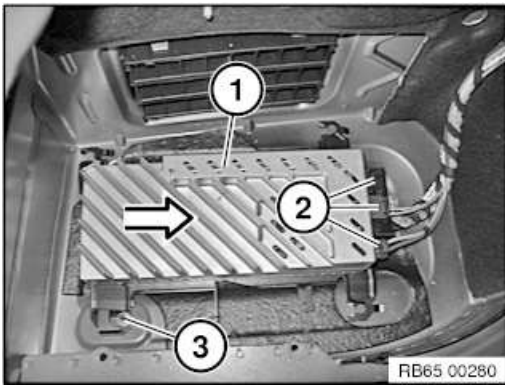
Make sure cover (3) is correctly seated.



Version with TV module or DVD changer:

Unscrew nut (1) and bolts (2).

Take off holder (3).



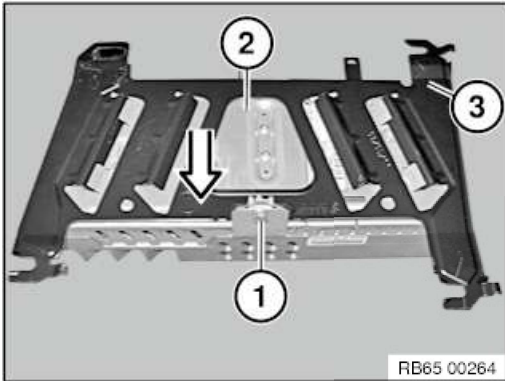
Unscrew nut (3).

Unlock plug connections (2) and disconnect.

Remove amplifier (1) with holder in direction of arrow.

Installation note:

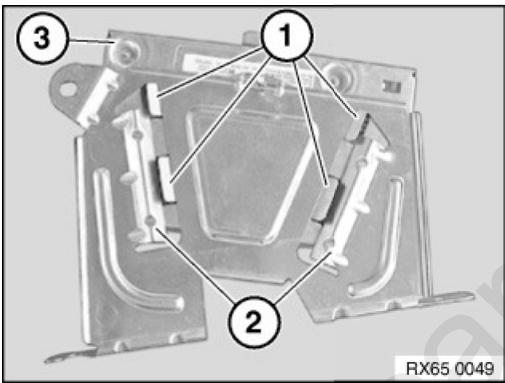
Make sure amplifier (1) is correctly seated.



Replacement:

Release screw (1).

Pull amplifier (2) out of holder (3) in direction of arrow.



Installation note:

Lugs (1) must be correctly slid into guide (2).

Check that amplifier (3) is securely seated.



Replacement:

In Harman Kardon version, perform [vehicle programming and encoding](#).

**Special tools required:**

- [00 9 340](#)

**Attention!**

Risk of damage!

A hard disk is installed in the Car Information Computer (CIC).

Carry out mechanical work on the CIC and adjacent components with care.

Avoid subjecting the CIC to vibration/shocks.

**Attention!**

Read and comply with notes on protection against electrostatic damage ([ESD protection](#)).

**Attention!**

Carry out installation in a dust-free workshop area only.

To avoid damage, do not touch or dirty the display area.

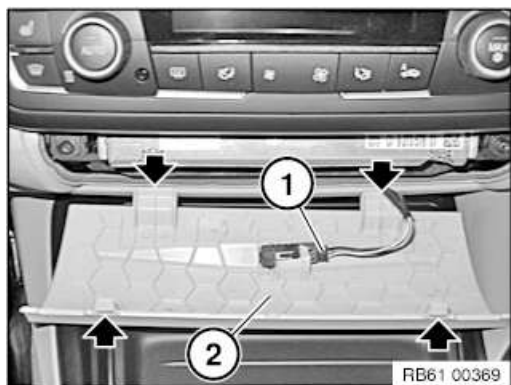
**Necessary preliminary tasks:**

- Remove [decorative strip on dashboard in middle](#)



Insert special tool [00 9 340](#) as illustrated.

Carefully lever out trim (1) towards front and unclip.

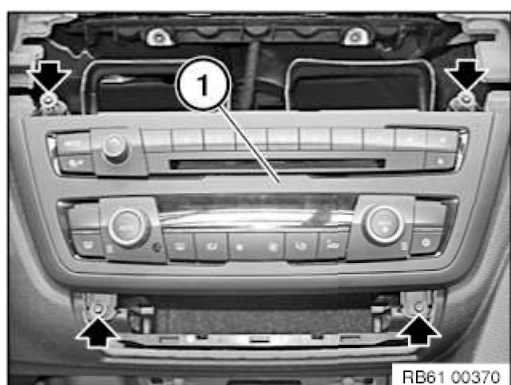


Unfasten plug connection (1) and disconnect.

Remove cover (2).

Installation note:

Retaining lugs and guides must not be missing or damaged.



Release all screws (arrow).

Pull control panel (1) forwards slightly.

Unlock associated plug connections and disconnect.

Remove the control panel (1).

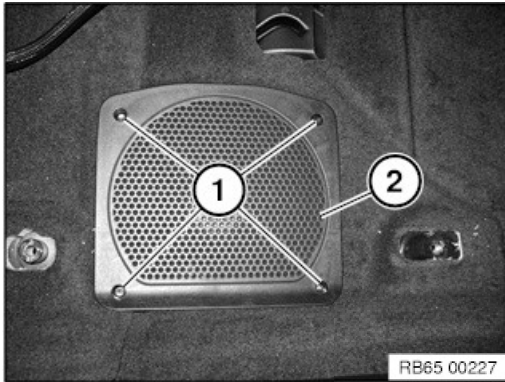
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65 12 051 Removing and installing/renewing central bass speaker -driver's side- (under front seat)



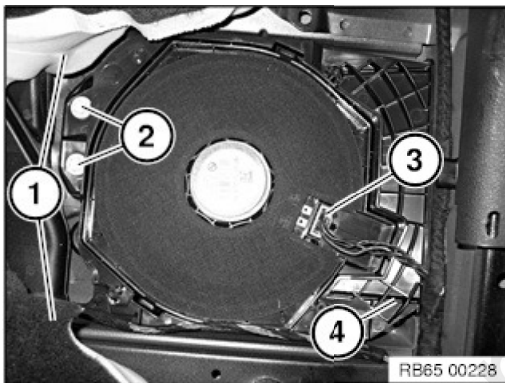
Necessary preliminary tasks:

- Remove [front seat](#)
- Remove [door sill cover strip](#)



Release screws (1).

Remove cover of bass speaker (2).



Fold up the carpet (1) as shown.

Unfasten plug connection (3) and disconnect.

Unfasten screws (2).

Feed out central bass speaker support (4).



Important!

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).



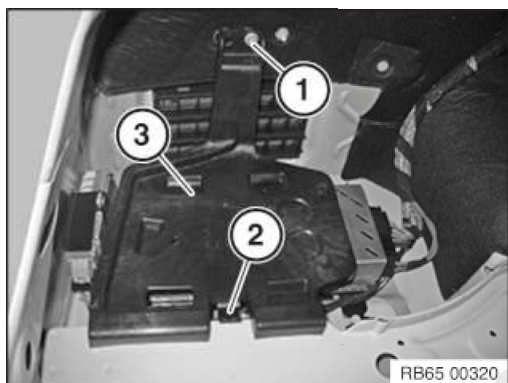
Note:

Comply with notes and notes on [handling optical fibres](#).



Necessary preliminary tasks:

- Disconnect [battery earth lead](#)
- Partially remove [luggage compartment wheel arch panel on left](#)



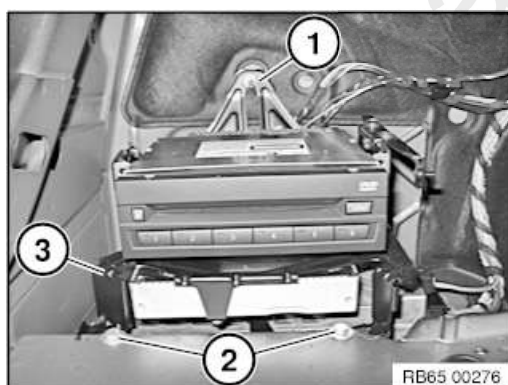
Slacken nut (1).

Unlock catch (2).

Remove cover (3).

Installation note:

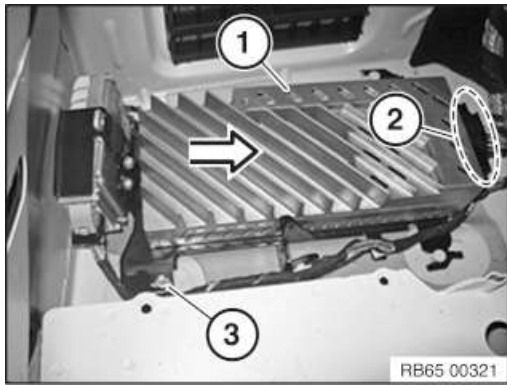
Make sure cover (3) is correctly seated.



Version with TV module or DVD changer:

Unscrew nut (1) and bolts (2).

Take off holder (3).



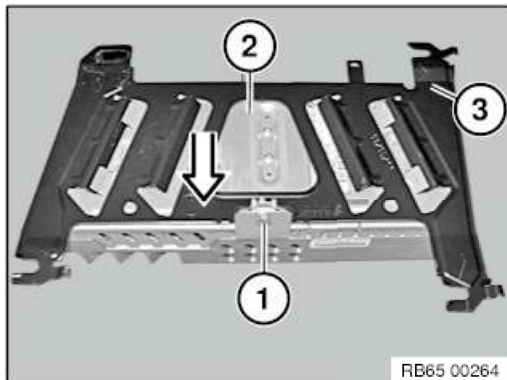
Unscrew nut (3).

Unlock plug connections (2) and disconnect.

Remove amplifier (1) with holder in direction of arrow.

Installation note:

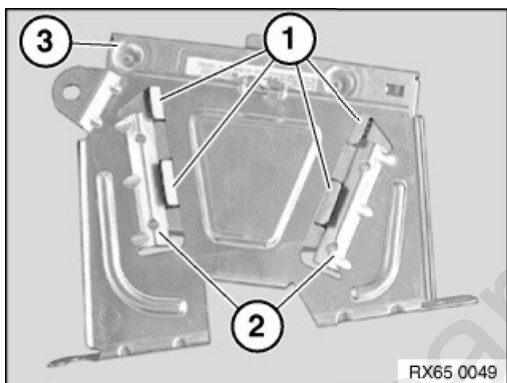
Make sure amplifier (1) is correctly seated.



Replacement:

Release screw (1).

Pull amplifier (2) out of holder (3) in direction of arrow.



Installation note:

Lugs (1) must be correctly slid into guide (2).

Check that amplifier (3) is securely seated.



Replacement:

In Harman Kardon version, perform [vehicle programming and encoding](#).

65 12 210 Removing and installing/replacing CHAMP radio receiver (BMW Professional radio)



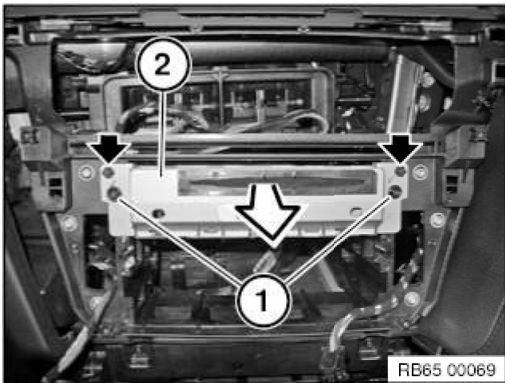
Important!

Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).



Necessary preliminary tasks:

- Disconnect [battery negative cable](#)
- Remove [radio and IHKA controls](#)

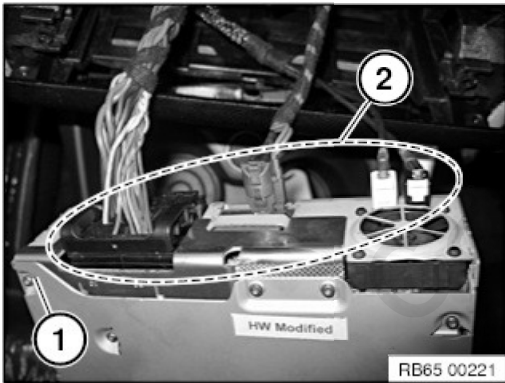


Release screws (1).

Pull out the CHAMP (2) to the front.

Installation note:

Make sure CHAMP (2) is correctly seated on retaining lugs at the marked points.



Unlock plug connections (2) and disconnect.

Remove CHAMP (1).



Replacement:

Carry out [vehicle programming/encoding](#).

For vehicles with Teleservices optional equipment:

- Update services via menu in the central information display.

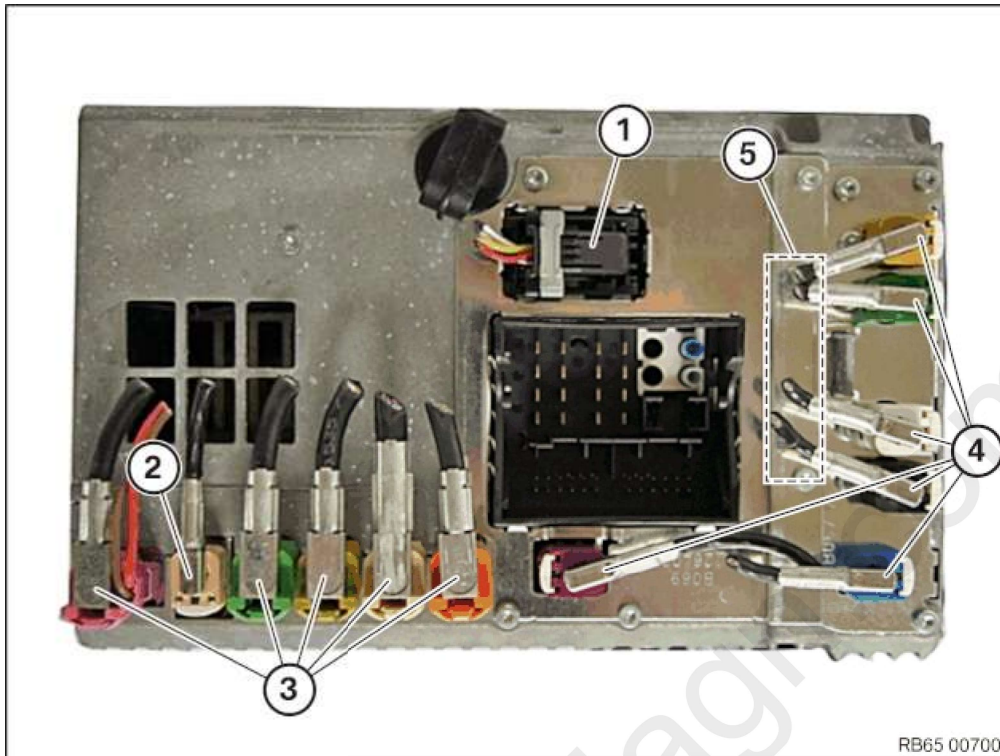
Load service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

**Attention!**

If **lines are disconnected** in the vehicle interior during a theft of electronic components, the disconnected lines **are to be individually repaired or replaced**.

Replacement **of the complete audio wiring harness is not permitted**.



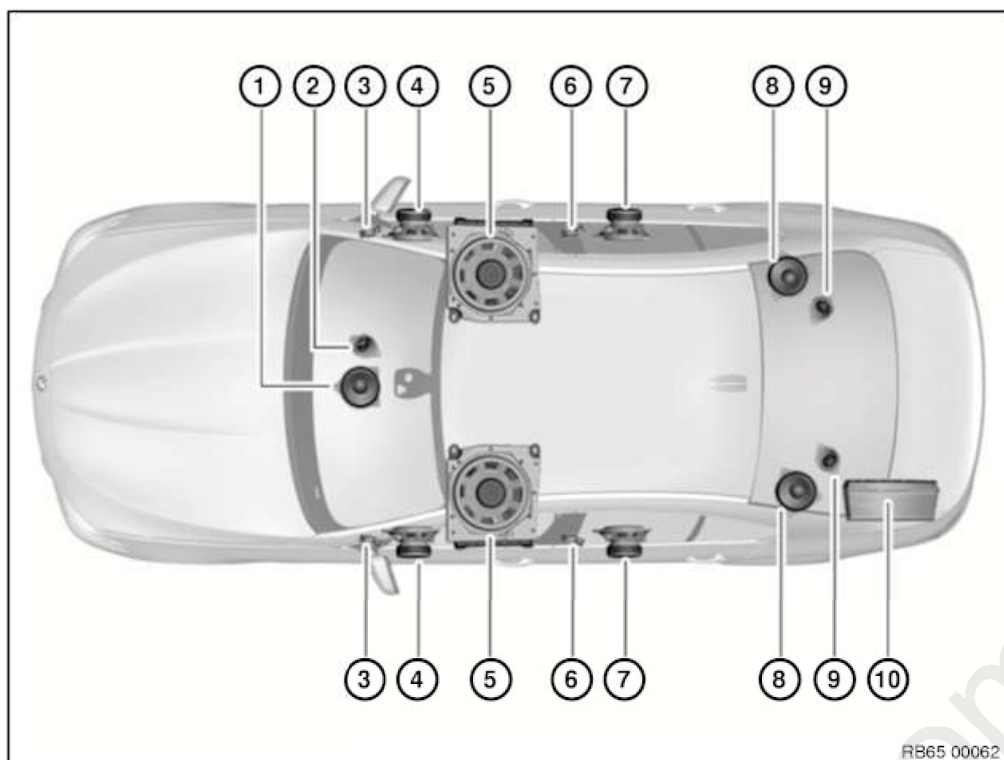
 The figure shows a stolen head unit with connectors and disconnected line parts. Disconnected lines without a connector remain in the vehicle.

The number and arrangement of lines can vary according to the equipment.

All parts necessary for repair are available in the Electronics Parts Catalogue.

1. Repair connector with lines with the "TV module" repair kit.
- 2./4. If the (5) coaxial lines (aerial lines) are cut close to the connector, attach a new connector. Otherwise, completely replace coaxial lines (aerial lines) (line extension not possible).
Exception: The connector cannot be repaired on **RG174** lines.
3. Completely replace HSD lines (repair not possible).

65 13 ... Overview of audio components



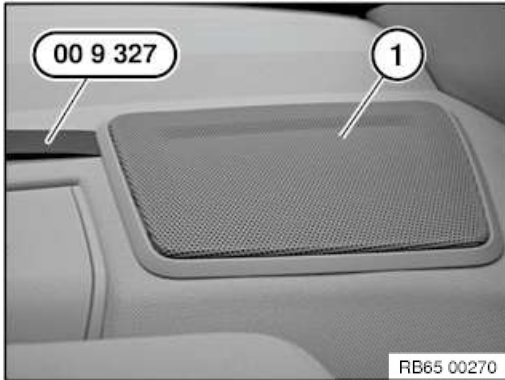
- | | |
|---|---|
| 1 Mid-range speaker, front (centre) | 6 Tweeter in rear side trim panel |
| 2 Tweeter, front (centre) | 7 Mid-range speaker in rear side trim panel |
| 3 Tweeter mirror triangle | 8 Mid-range speaker storage shelf |
| 4 Mid-range speaker, door, front | 9 Tweeter storage shelf |
| 5 Bass speaker under front seat | 10 Amplifier |

65 13 188 Removing and installing/replacing rear mid-range speaker (in storage shelf)

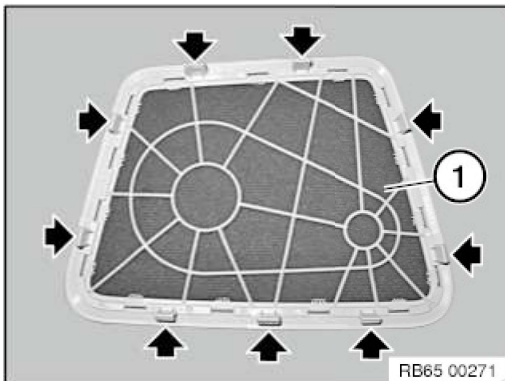


Special tools required:

- [00 9 327](#)

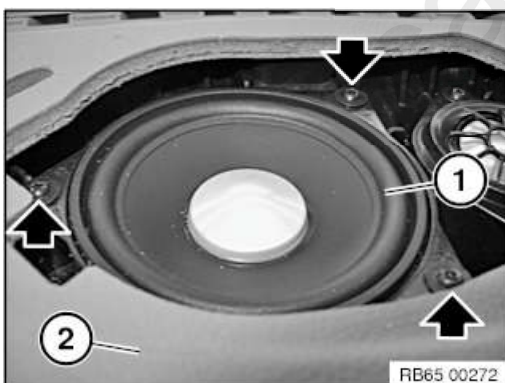


Lever out speaker cover (1) with special tool [00 9 327](#).



Installation note:

Retaining lugs on speaker cover (1) must not be damaged.



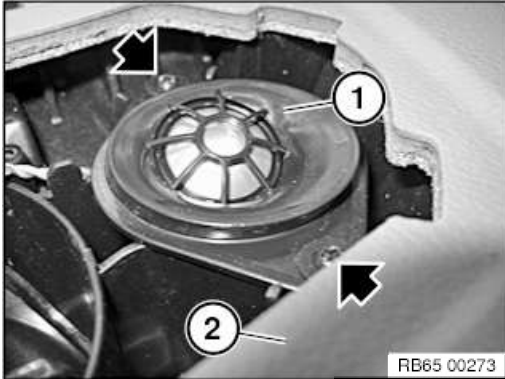
Release screws.

Remove mid-range speaker (1) from storage shelf (2) and disconnected associated plug connections.



Installation note:

- Remove [rear mid-range speaker](#)



Release screws.

Remove tweeter (1) from storage shelf (2).

Feed out associated plug connection.

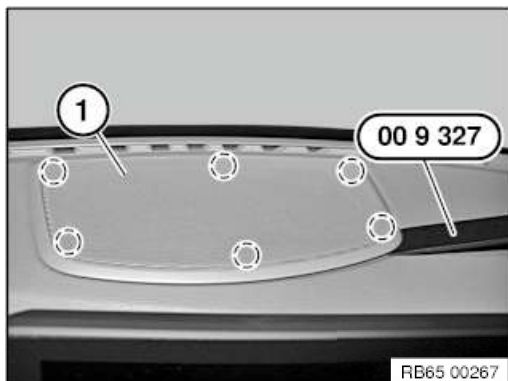
cardiagn.com

65 13 060 Removing and installing/replacing speaker (mid-range speaker, in instrument panel)

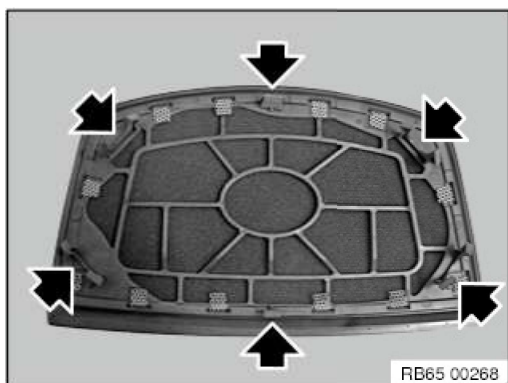


Special tools required:

- [00 9 327](#)

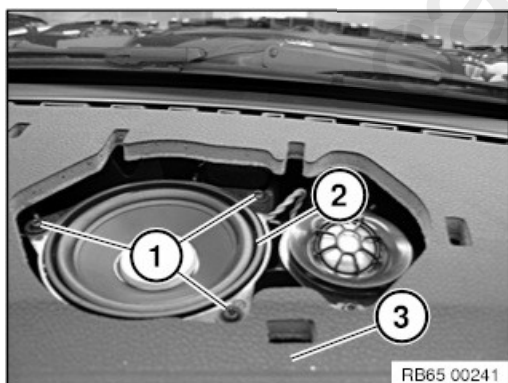


Unclip trim (1) with special tool [00 9 327](#) from latch mechanisms and remove upwards.



Installation note:

Retaining lugs and clamps at marked points must not be damaged.



Release screws (1).

Tightening torque [65 13 05AZ](#).

Remove mid-range speaker (2) upwards from dashboard (3).

Disconnect plug connections underneath.

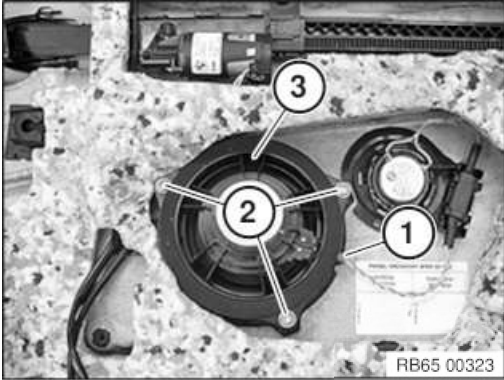
Remove mid-range speaker (2).

65 13 090 Removing and installing/replacing speaker (mid-range speaker, rear side trim panel)



Necessary preliminary tasks:

- Remove [rear side trim panel](#)



Disconnect plug connection (1).

Unfasten screws (2).

Tightening torque [65 13 3AZ](#).

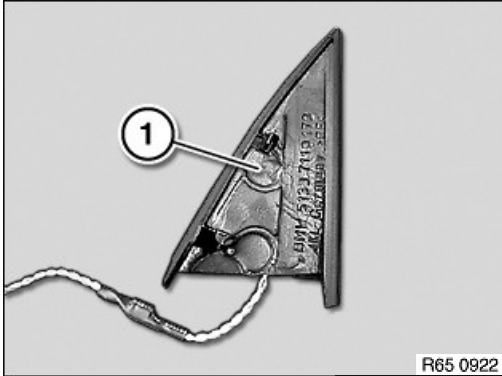
Remove speaker (3) from side trim panel.

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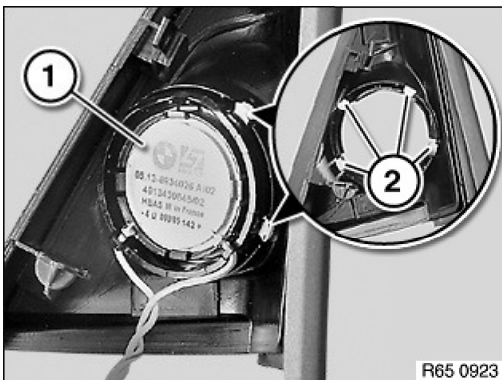


Necessary preliminary tasks:

- Remove [corner trim panel](#)



Remove sound insulation (1).



Unclip speakers (1) from latch mechanisms (2).

Disconnect associated plug connection.

Remove speaker (1).

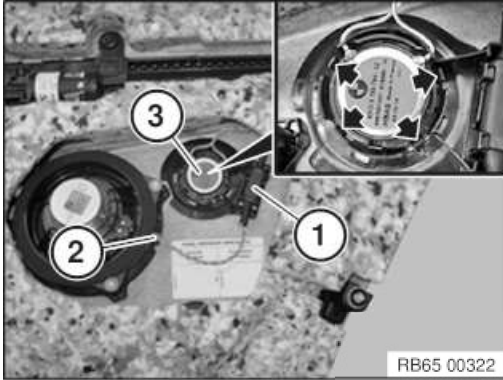
Installation note:

Latch mechanisms (2) must not be damaged.



Necessary preliminary tasks:

- Remove [rear side trim panel](#)



Disconnect plug connection (2).

Feed the resistor (1) out.

Unlock latches at marked points.

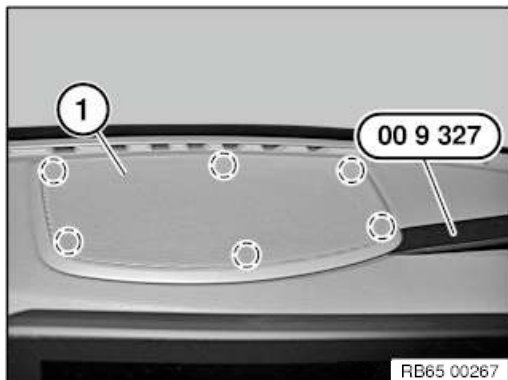
Remove tweeter (3).

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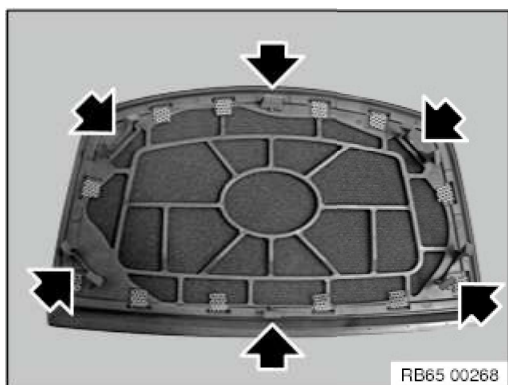


Special tools required:

- [00 9 327](#)

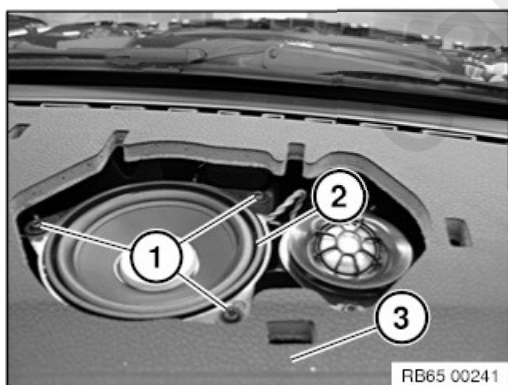


Unclip trim (1) with special tool [00 9 327](#) from latch mechanisms and remove upwards.



Installation note:

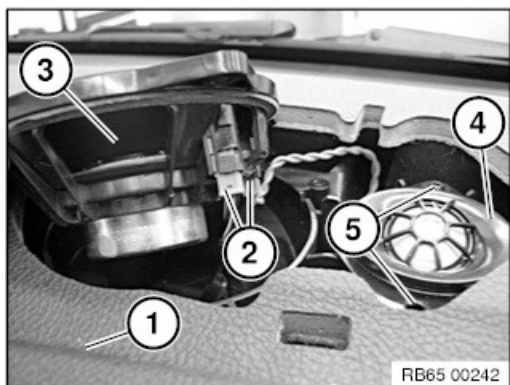
Retaining lugs and clamps at marked points must not be damaged.



Release screws (1).

Tightening torque [65 13 06AZ](#).

Pull out mid-range speaker (2) upwards from dashboard (3).



Disconnect plug connections (2) at mid-range speaker (3).

Release screws (5) on tweeter (4).

Pull out tweeter (4) upwards from dashboard (1).

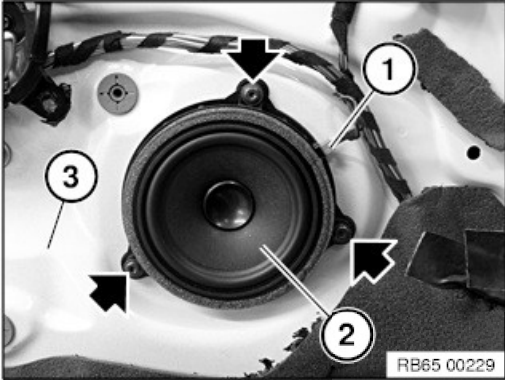
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65 13 070 Removing and installing/replacing speakers (mid-range speaker, front door left and right)



Necessary preliminary tasks:

- Remove front [door trim panel](#)



Release screws at marked points.

Tightening torque [65 13 01AZ](#).

Unfasten plug connection (1) and disconnect.

Remove speaker (2) from inner door panel (3).

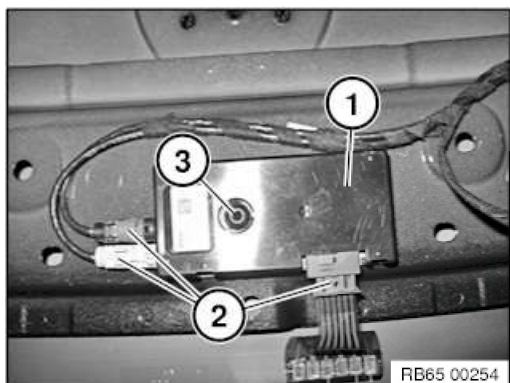
cardiagn.com

**Important!**

Observe [instructions](#) for the protection against electrostatic discharge (ESD protection)!

*Necessary preliminary tasks:*

- Remove [auxiliary brake light](#)



Release screw (3).

Unlock plug connections (2) and disconnect.

Remove aerial amplifier (1).

**Necessary preliminary tasks:**

- Detach [empty housing](#) for roof-mounted aerial
- If necessary, remove the [telematics control unit](#)

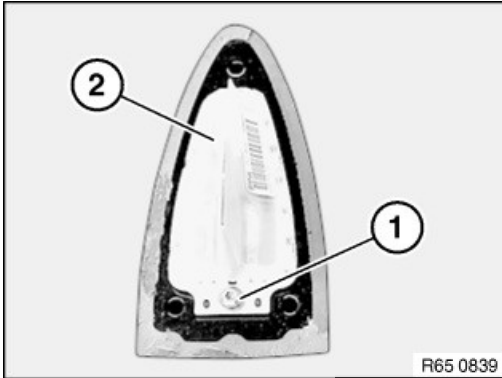
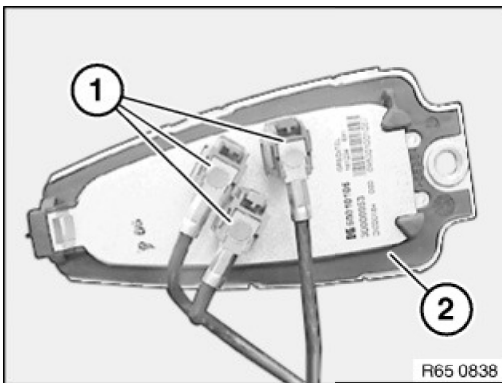
*Note:*

Diagram similar.

Release screw (1).

Remove roof-mounted aerial (2) by manoeuvring upwards.



Disconnect plug connection (1).

Remove aerial (2).

Installation note:

Do not mix up aerial/antenna connections (1).

*Note:*Replacement:

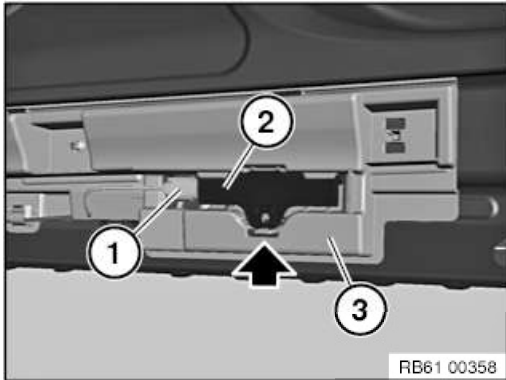
Connection for DAB-L on the roof-mounted aerial omitted (white connector).

If necessary, tie back the remaining cable connection on the side of the vehicle so that rattling noise cannot occur.



Necessary preliminary tasks:

- Remove [trim panel for cover on side member](#)



Disconnect plug connection (1).

Unlock and remove aerial for Comfort Access (2) from bracket (3).

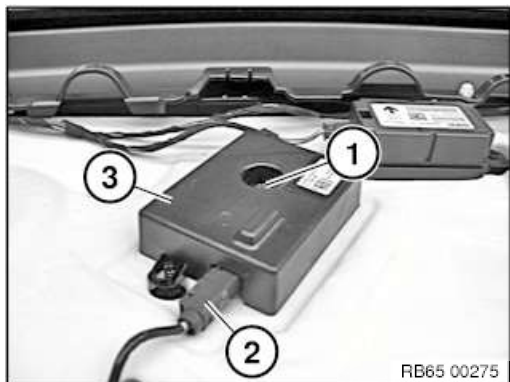
Installation note:

Make sure aerial for Comfort Access (2) is correctly seated on bracket (3).

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**Necessary preliminary tasks:**

- Remove [trim panel for storage shelf](#)



Slacken nut (1).

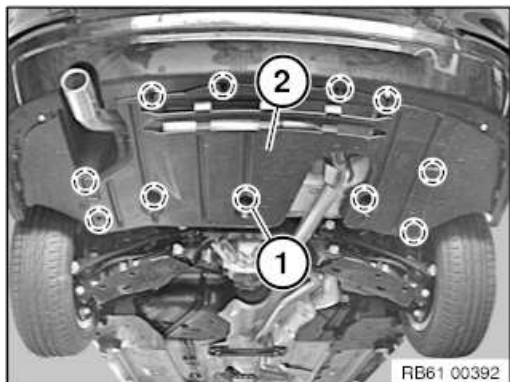
Unfasten plug connection (2) and disconnect.

Remove backup aerial (3).

Installation note:

Position back-up aerial (3) so that positioning pin on back engages in associated bore hole.

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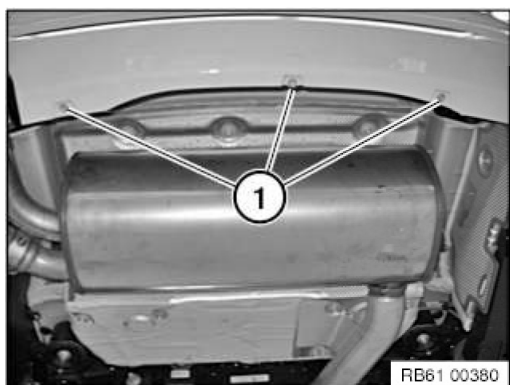


Note:

Work shown on the F30 by way of example, deviations in detail are possible in other models.

Depending on the engine version:

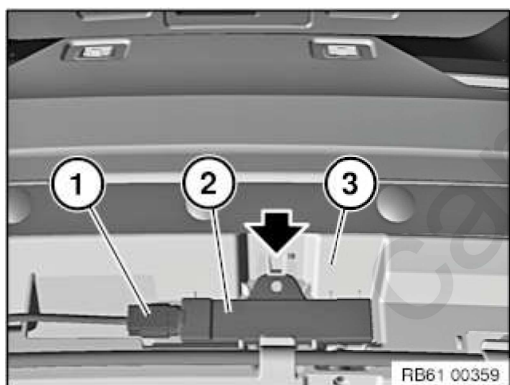
If necessary, release screws (1) on cover (2) and remove cover (2).



Note:

Bumper aerial is located on reinforcement of rear bumper panel.

Release screws (1) on bumper panel at bottom rear.



Note:

Shown with bumper panel removed for purposes of clarity.

Disconnect plug connection (1).

Reach between reinforcement and bumper panel.

Release latch mechanism (arrow) on reinforcement (3) and feed out bumper aerial (2).

Installation note:

Make sure bumper aerial (2) is correctly fitted on reinforcement (3).

65 20 030 Removing and installing/replacing empty housing for roof-mounted aerial

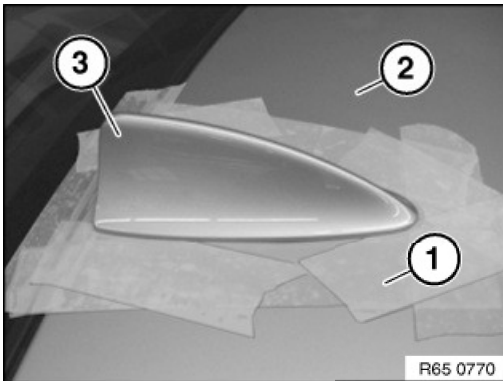


Important!

Note to customer:

In order to guarantee a permanent connection and adhesive hardening:

After bonding the empty housing for the roof-mounted aerial, wait 24 hours before driving the vehicle through a car wash.



Note:

Clean roof.

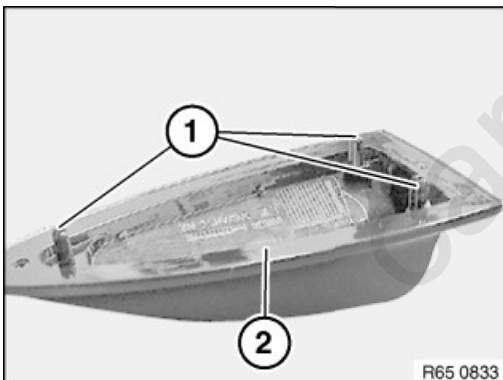
Mask roof (2) around empty housing for roof-mounted aerial (3) with yellow plastic adhesive tape (1). To do so, slide plastic adhesive tape under empty housing (3) slightly.

Cut through the adhesive bead (e.g. scalpel) and remove the empty housing for the roof-mounted aerial (3).



Installation:

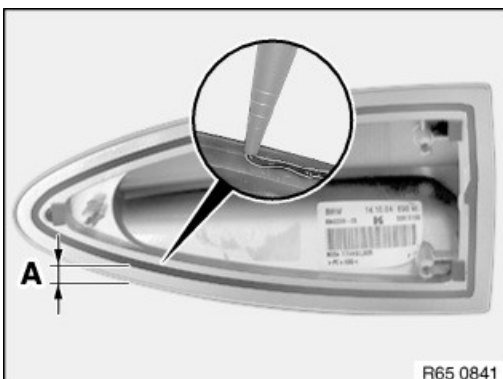
Empty housing for roof-mounted aerial is secured with window glass adhesive. All preparatory operations correspond to the [Window bonding notes](#).



Note:

Replace empty housing for roof-mounted aerial if centering pins (1) on empty housing are damaged.

Bonding surface (2) must be clean and free from grease.



Apply trace of adhesive bead all round outer contour as follows.

Distance between adhesive bead and edge of aerial housing:

A. $6.5 \text{ mm} \pm 1 \text{ mm}$

Start and end of bead trace must have an overlap length of max. 10 mm.

Important!

To prevent the adhesive from leaking, the adhesive bead diameter must not exceed 2.5 mm to 3.5 mm.



Note:

Attach the empty housing coated with adhesive by hand. To spread the adhesive better, move the housing back and forth horizontally slightly when pressing down.

Secure empty housing if necessary with adhesive tape and press down uniformly.

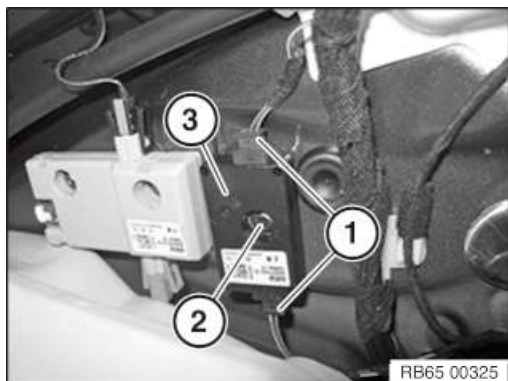
After bonding, leave vehicle to stand for at least 3 hours at room temperature.

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Necessary preliminary tasks:

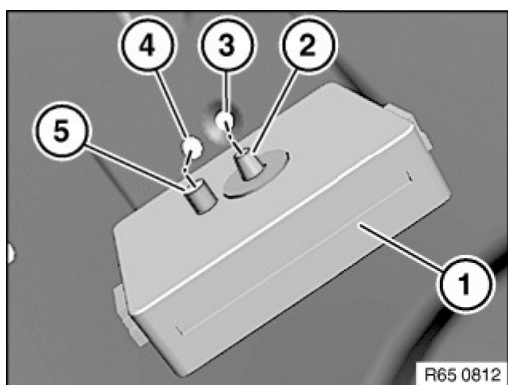
- Remove [trim panel for storage shelf](#)



Unlock plug connections (1) and disconnect.

Release screw (2).

Remove interference suppression filter (3) from C-pillar.



Installation note:

Fit interference suppression filter (1) so that screw (2) engages thread (3) and locating pin (4) engages in bore hole (5).

61 35 953 Removing and installing/replacing interior aerial for Comfort Access (front storage compartment)



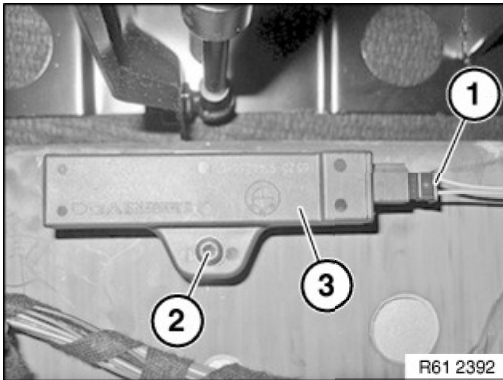
Necessary preliminary tasks:

For version with automatic transmission:

- Remove [centre console trim](#)

For version with manual gearbox:

- Partially remove [gearshift lever gaiter](#)



Note:

Similar to graphic.

Disconnect plug connection (1).

Release screw (2).

Remove interior aerial (3).

Installation note:

Make sure interior aerial (3) is correctly fitted.

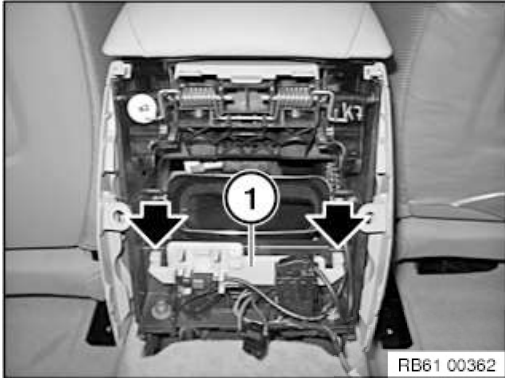
Make sure plug connection (1) is correctly seated.

61 35 954 Removing and installing/replacing interior aerial for Comfort Access (rear centre console)



Necessary preliminary tasks:

- Remove [rear centre console trim](#)



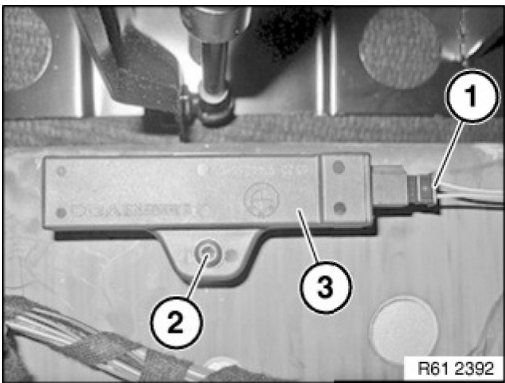
Note:

Work shown on the F30 by way of example, deviations in detail are possible in other models.

Depending on the equipment specification, if necessary release cable clips (1) at latches (arrow) and set down.

Installation note:

Make sure cable clip (1) is correctly seated.



Note:

Similar to graphic.

Unfasten plug connection (1) and disconnect.

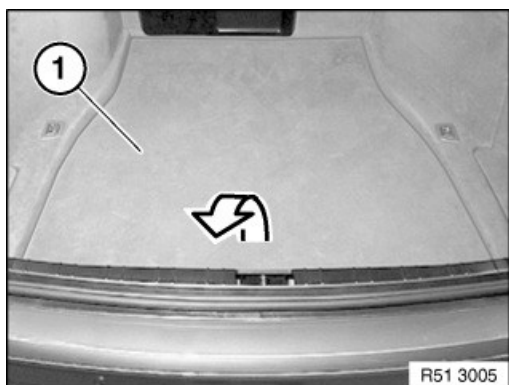
Release screw (2) and remove interior aerial (3).

Tightening torque [61 35 7AZ](#).

Installation note:

Make sure plug connection (1) and interior aerial (3) are correctly seated.

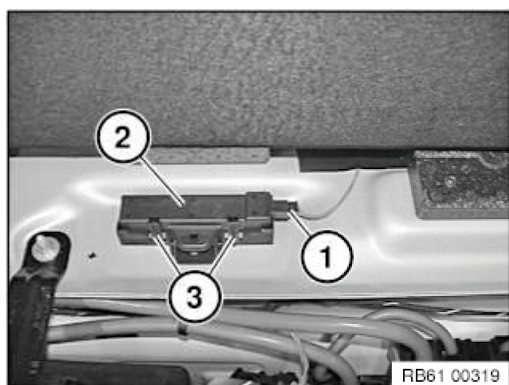
61 35 970 Removing and installing/replacing luggage compartment aerial for Comfort Access



Note:

Work shown on the F30 by way of example, deviations in detail are possible in other models.

Remove luggage compartment floor trim panel (1) in direction of arrow.



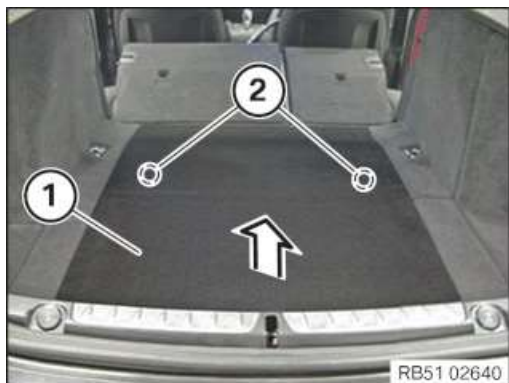
Disconnect plug connection (1).

Unlock and remove luggage compartment aerial (2) from bracket (3).

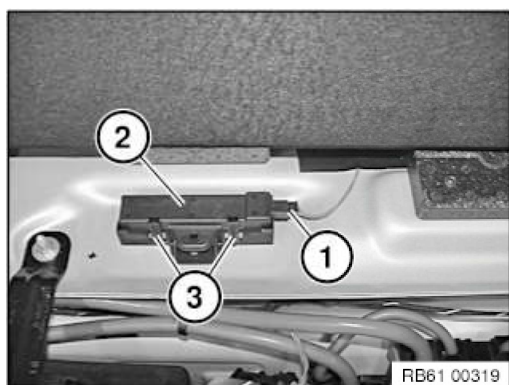
Installation note:

Make sure luggage compartment aerial (2) is seated correctly in bracket (3).

61 35 970 Removing and installing/replacing luggage compartment aerial for Comfort Access



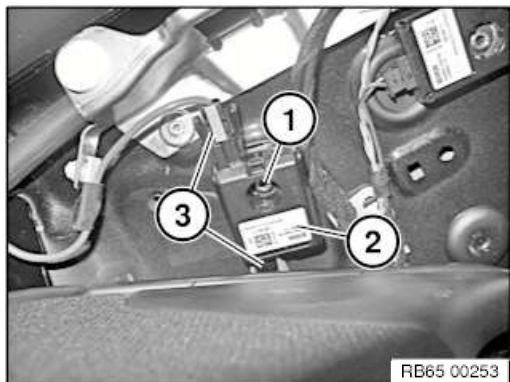
Raise luggage compartment floor trim panel (1) at rear in direction of arrow.
Raise and release Velcro fasteners (2).
Remove luggage compartment floor trim panel (1) to rear.



Disconnect plug connection (1).
Unlock and remove luggage compartment aerial (2) from bracket (3).
Installation note:
Make sure luggage compartment aerial (2) is seated correctly in bracket (3).

**Necessary preliminary tasks:**

- Remove [storage shelf trim panel](#).



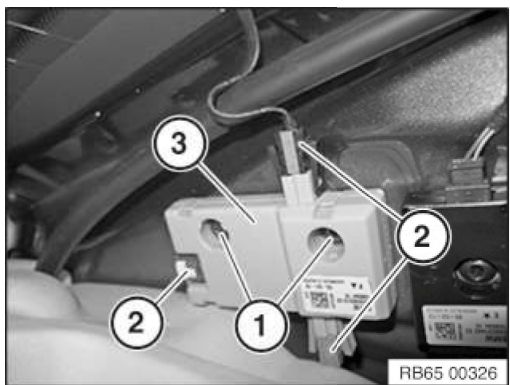
Release screw (1).

Unlock plug connections (3) and disconnect.

Remove wave trap (2) from C-pillar.

Installation note:

Position wave trap (2) so that positioning pin on back engages in associated bore hole.

***Note:******Version with TV module:***

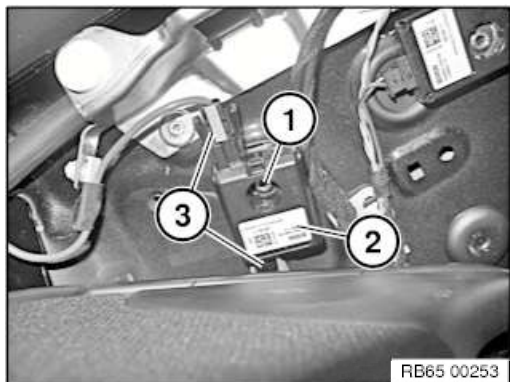
Release screws (1).

Unlock plug connections (2) and disconnect.

Remove wave trap (3).

**Necessary preliminary tasks:**

- Remove [trim panel for storage shelf](#).



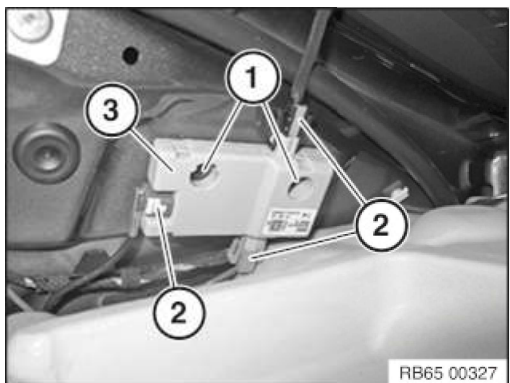
Release screw (1).

Unlock plug connections (3) and disconnect.

Remove wave trap (2) from C-pillar.

Installation note:

Position wave trap (2) so that positioning pin on back engages in associated bore hole.

***Note:******Version with TV module:***

Release screws (1).

Unlock plug connections (2) and disconnect.

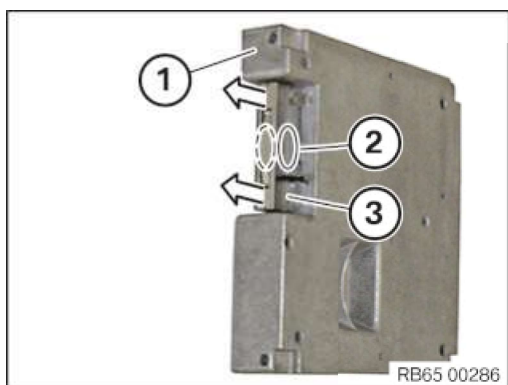
Remove wave trap (3).

**Important!**

Before installing the Pay TV card the customer must be informed that the Pay TV card has been developed for use at home and is not designed for use in the vehicle. Possible high temperatures that may occur in the vehicle can damage the Pay TV card. BMW AG does not accept any claims for this kind of damage.

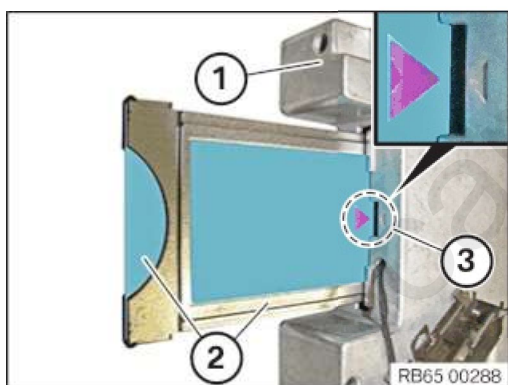
**Necessary preliminary work:**

- Carry out the required preliminary work analog to [removing the TV module](#). Do **not** disconnect the battery earth lead. Do **not** remove the TV module.



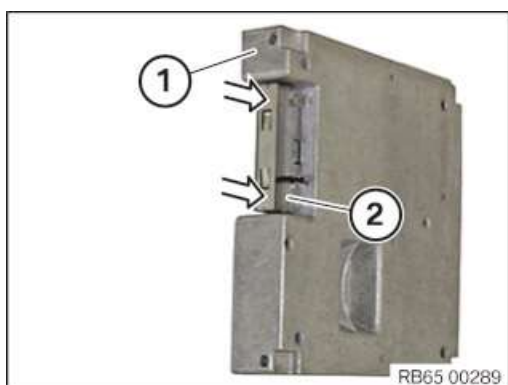
Press cover (3) at point (2) together.

Remove cover (3) of TV module (1) in the direction of the arrow.



Position the Pay TV card with slot (2) as shown (3).

Insert Pay TV card with slot (2) in TV module (1).



Install lid (2) into TV module (1) in the direction of the arrow.



Required follow-up work:

- [Add final details to vehicle](#)

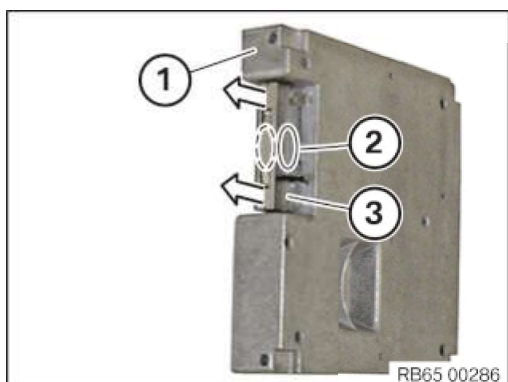
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**Important!**

Before installing the Pay TV card the customer must be informed that the Pay TV card has been developed for use at home and is not designed for use in the vehicle. Possible high temperatures that may occur in the vehicle can damage the Pay TV card. BMW AG does not accept any claims for this kind of damage.

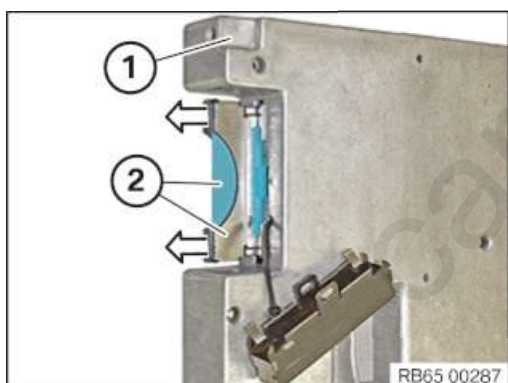
**Necessary preliminary work:**

- Carry out the required preliminary work analog to [removing the TV module](#). Do **not** disconnect the battery earth lead. Do **not** remove the TV module.

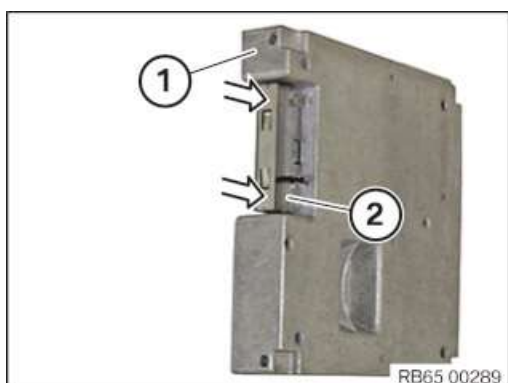


Press cover (3) at point (2) together.

Remove cover (3) of TV module (1) in the direction of the arrow.



Pull out Pay TV card with slot (2) from TV module (1) in the direction of the arrow.



Install lid (2) into TV module (1) in the direction of the arrow.



Required follow-up work:

- [Add final details to vehicle](#)

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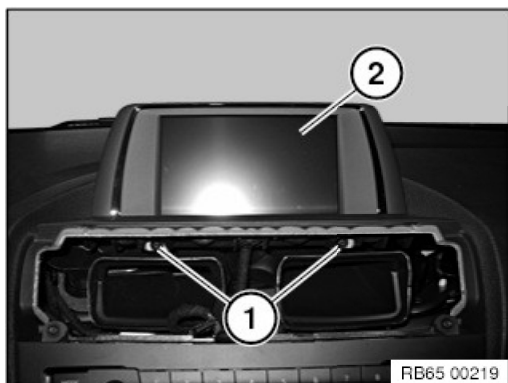
Attention!

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).



Necessary preliminary tasks:

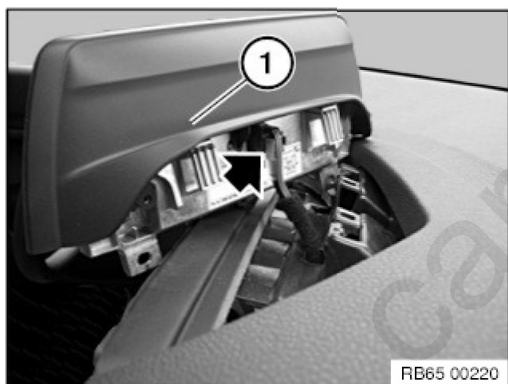
- Remove [decorative strip on dashboard on right](#)



Release screws (1).

Tightening torque [65 50 1AZ](#).

Remove CID (2) towards top.



Unlock plug connection and disconnect.

Remove CID (1).

**Important!**

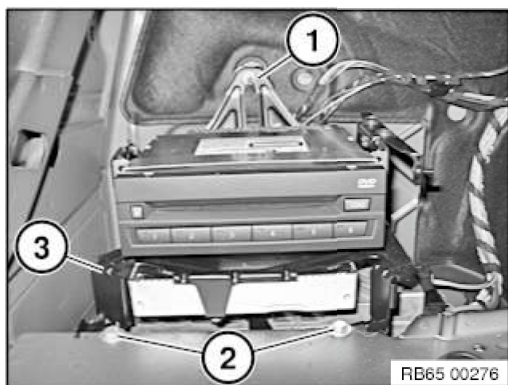
Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).

**Note:**

Follow notes for [handling optical fibres](#).

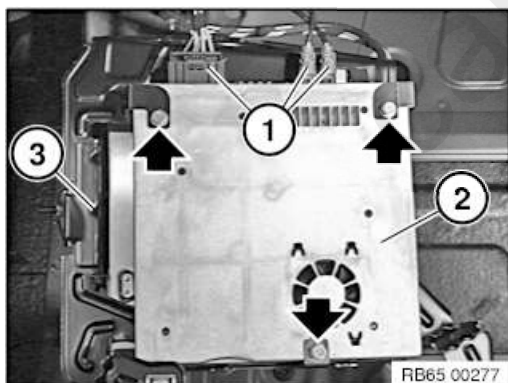
**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Partially remove [luggage compartment wheel arch panel on left](#)



Unscrew nut (1) and bolts (2).

Take off holder (3).



Unlock plug connections (1) and disconnect.

Release screws at marked points.

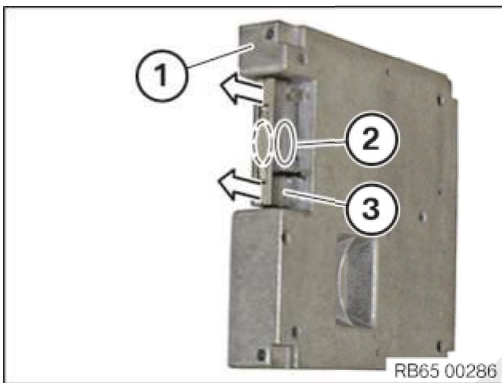
Remove TV module (2) from holder (3).

**Important!**

Before installing the Pay TV card the customer must be informed that the Pay TV card has been developed for use at home and is not designed for use in the vehicle. Possible high temperatures that may occur in the vehicle can damage the Pay TV card. BMW AG does not accept any claims for this kind of damage.

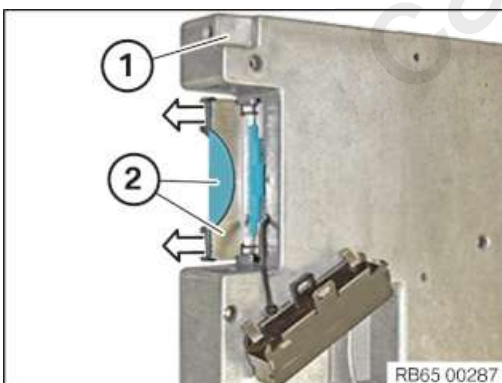
**Necessary preliminary work:**

- Carry out the required preliminary work analog to [removing the TV module](#). Do **not** disconnect the battery earth lead. Do **not** remove the TV module.

**Removal:**

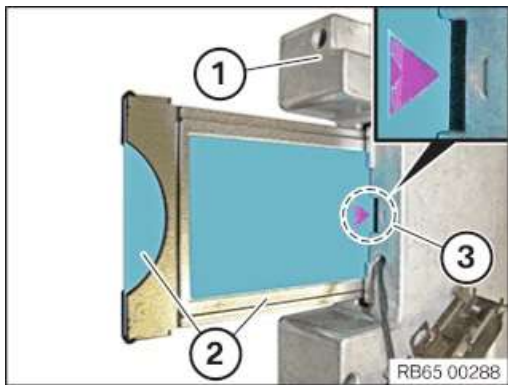
Press cover (3) at point (2) together.

Remove cover (3) of TV module (1) in the direction of the arrow.

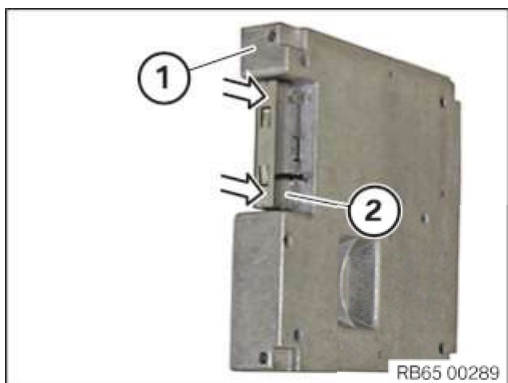


Pull out Pay TV card with slot (2) from TV module (1) in the direction of the arrow.

**Installation:**



Position the Pay TV card with slot (2) as shown (3).
Insert Pay TV card with slot (2) in TV module (1).



Install lid (2) into TV module (1) in the direction of the arrow.



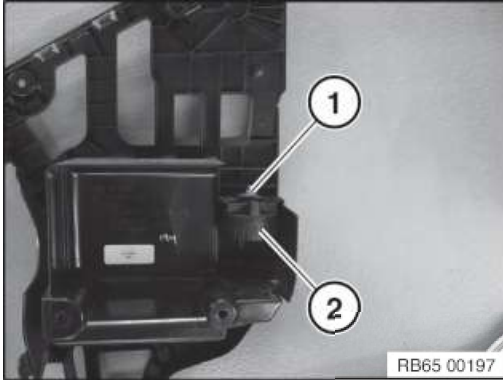
Required follow-up work:

- [Add final details to vehicle](#)



Necessary preliminary tasks:

- Remove [guide for rear right bumper](#)



Slacken nut (1).

Remove emergency power siren with tilt sensor (2).



Replacement:

Carry out [vehicle programming/encoding](#).



Note:

Module for interior movement detector is integrated in roof switch cluster.

This operation is described in:

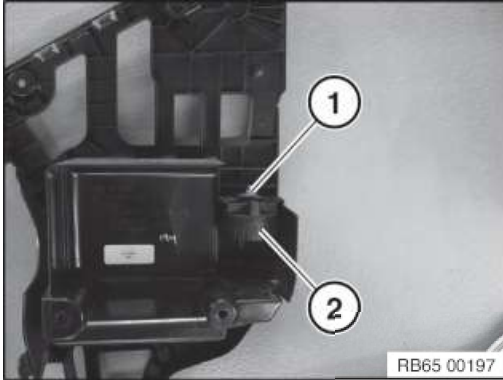
[Removing and installing or replacing roof switch cluster](#)

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Necessary preliminary tasks:

- Remove [guide for rear right bumper](#)



Slacken nut (1).

Remove emergency power siren with tilt sensor (2).



Replacement:

Carry out [vehicle programming/encoding](#).

**Important!**

Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).

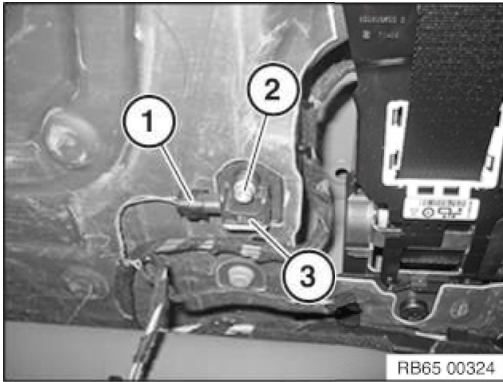
**Warning!**

[Note airbag safety regulations!](#)

Incorrect handling can activate airbag and cause injury.

*Necessary preliminary tasks:*

- [Disconnect battery earth lead](#) and cover
- Remove [rear side trim panel](#)



Unfasten plug connection (1) and disconnect.

Release screw (2).

Tightening torque [65 77 3AZ](#).

Remove sensor (3).

**Warning!**

[Note airbag safety regulations!](#)

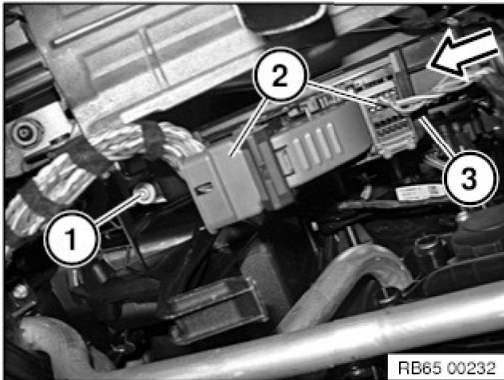
Incorrect handling can activate airbag and cause injury.

**Important!**

Read and comply with [notes](#) on protection against electrostatic discharge (ESD protection).

*Necessary preliminary tasks:*

- Disconnect [battery earth lead](#)
- Remove [trim panel for pedal mechanism](#)



Release screw (1).

Tightening torque [65 77 1AZ](#).

Unlock plug connections (2) and disconnect.

Pull airbag control unit (3) out of holder in direction of arrow.

**Replacement:**

Carry out [vehicle programming/encoding](#).



Operation is identical to:

[Removing and installing left B-pillar sensor](#)

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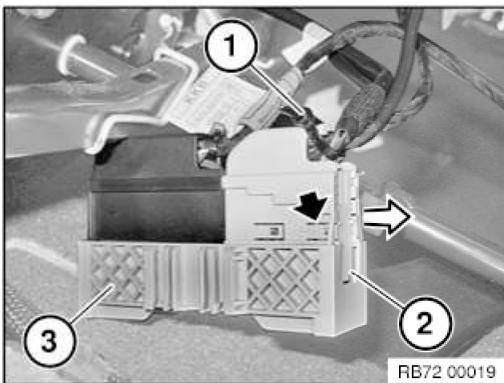
Necessary preliminary tasks:

- Remove [front passenger seat](#)



Important!

- Risk of damage on sharp-edged seat mechanism.
- Guide all cables carefully through seat and backrest mechanism.
- Make sure cable is routed without kinks and tension.
- Make sure plug connections are correctly locked.
- Make sure connectors are correctly seated in latch mechanisms.



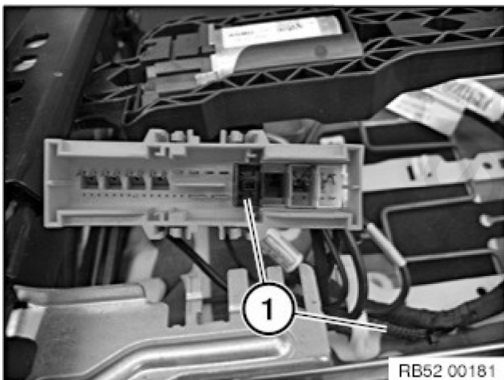
Remove the central plug from the mounting.

Cut open cable strap (1).

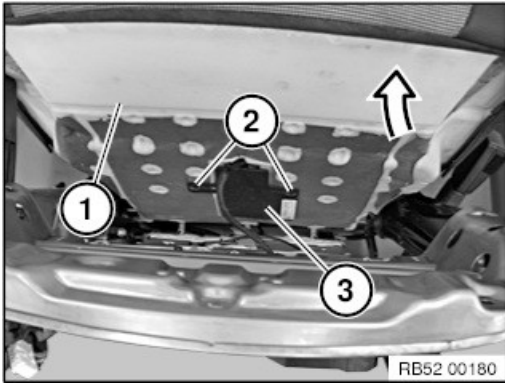
Installation note:

Replace cable tie (1) at central plug.

Raise the tab and pull connector (2) out through the side of the connector housing (3).



Detach cable for seat occupancy detection (1) from cable clip.



Lift the front seat cover with upholstery (1) and unclip the mounting (2) for the seat occupancy detection (3).

Remove the seat occupancy detection (3) from upholstery front passenger seat (1) and feed out connector with cable.

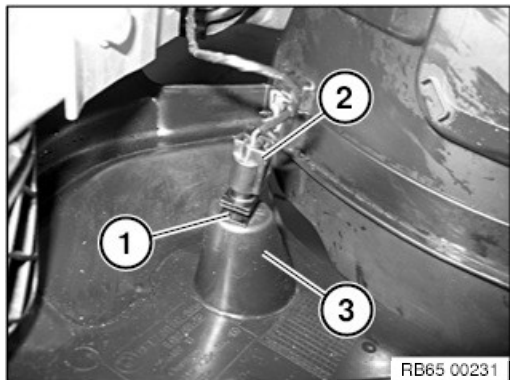
Installation note:

Plug connections are coded against incorrect assembly.

- To avoid malfunctions, make sure seat occupancy mat (3) is cleanly laid:
 - Insert the seat occupancy detection (3) in the provided recess and clip in mounting.
 - Install the cables and connectors for the seat occupancy detection clean and without kinks.
 - Slide and lock connector in central connector housing.



- Partially remove [front wheel arch cover](#)



Pull outside temperature sensor (1) upward out of fixture (3).

Unfasten plug connection (2) and disconnect.

Remove the outside temperature sensor (1).



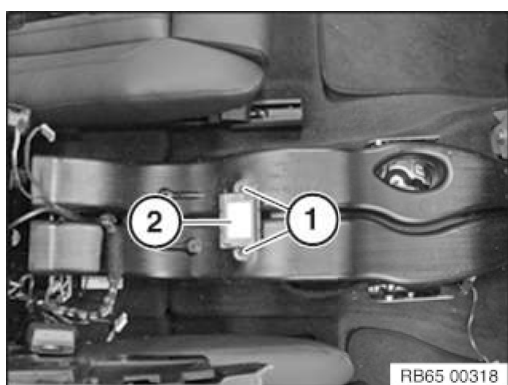
Important!

Read and comply with [notes](#) on protection against electrostatic discharge (ESD protection).



Necessary preliminary tasks:

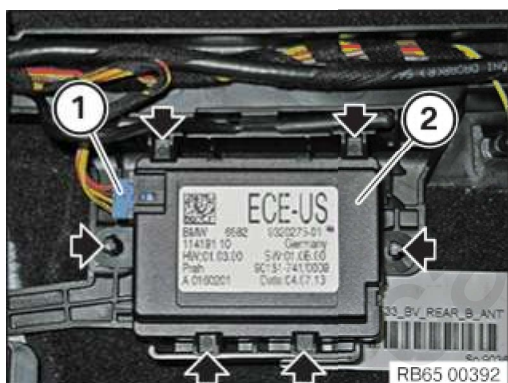
- Remove [complete centre console](#)



Version with air duct:

Loosen the screws (1).

Remove Touchbox (2).



Version without air duct:

Unfasten plug connection (1) and disconnect.

Release latch mechanisms at marked points.

Remove Touchbox (2).



Replacement:

Carry out [vehicle programming and encoding](#).



Attention!

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

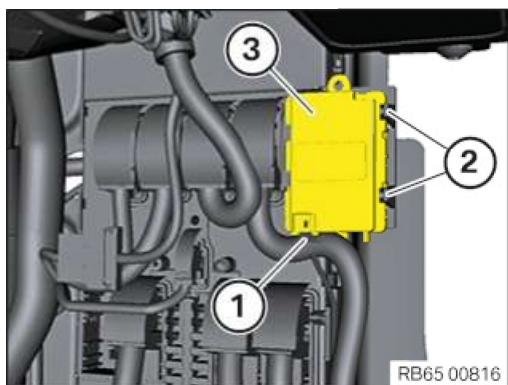


Necessary preliminary tasks:

- Remove [footwell side trim panel, right](#)



Removal:

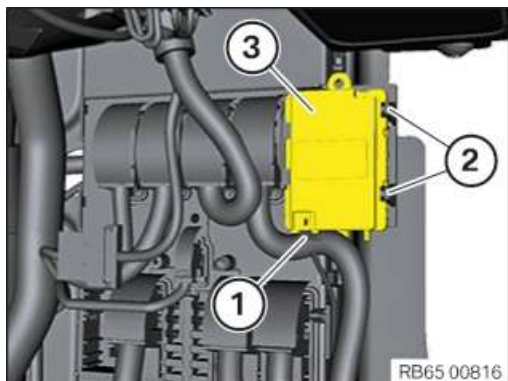


Unfasten plug connection (1) and disconnect.

Release Touchbox (3) from the latch mechanisms (2) and feed out from the holder.



Installation:



Note:

Latch mechanisms (2) must not be damaged or missing.

Feed in Touchbox (3) correctly on the holder and engage it to the latch mechanisms (2).

Connect and lock plug connection (1).



Required reworking:

- Install the [side trim panel in the right-hand footwell](#)



Replacement:

Carry out [programming](#).

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Important!

Risk of damage!

A hard disk is installed in the Car Information Computer (CIC).

Carry out mechanical work on the CIC and adjacent components with care.

Avoid subjecting the CIC to vibration / shocks.



Important!

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).



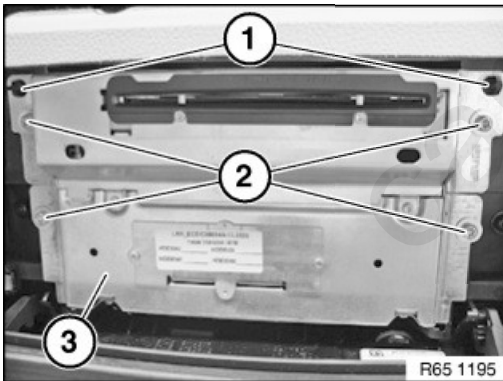
Note:

Comply with notes and notes on [handling optical fibres](#).



Necessary preliminary tasks:

- Disconnect [battery earth lead](#) (F03: Disconnect both battery earth leads).
- Remove [radio and IHKA controls](#)



Note:

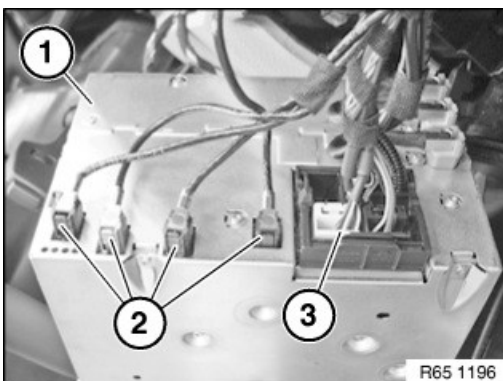
Picture for example purposes only!

Unfasten screws (2).

Pull CIC (3) out of guide.

Installation note:

Make sure CIC (3) is correctly seated in guide lugs (1).



Unlock plug connections (2) and (3) and disconnect.

Remove CIC (1).



Only for US models with satellite radio:

When replacing the CIC unit, additional work is required!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [vehicle programming/encoding](#).

For vehicles with Teleservices optional equipment:

- Update services via menu in the central information display.

Load additionally for following vehicles' service history:

- 1-Series F2x, 3-Series F3x from series introduction
- F01, F02, F03, F07, F10, F11 with production date from 07/2013
- F06, F12, F13 with production date from 03/2014
- F15, F16 from volume production launch
- F18 with production date from 09/2013
- F25 with production date from 04/2014
- F26 as of series introduction

Load service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

**Attention!**

Risk of damage!

There is a hard disk installed in the headunit.

Carry out mechanical work on the headunit and adjacent components with care.

Avoid subjecting the headunit to vibration/shocks.

**Attention!**

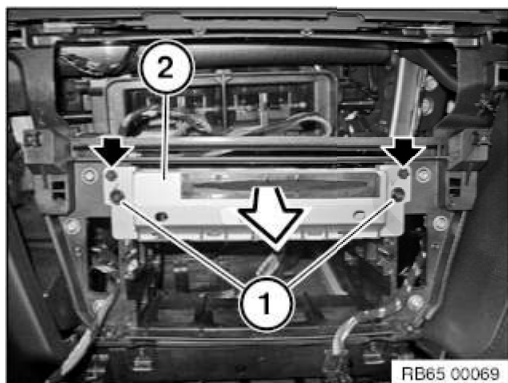
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

**Note:**

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary tasks:**

- Remove [radio and IHKA control panel](#)
- Disconnect [battery earth lead](#) (F03: Disconnect both battery earth leads).

**Note:**

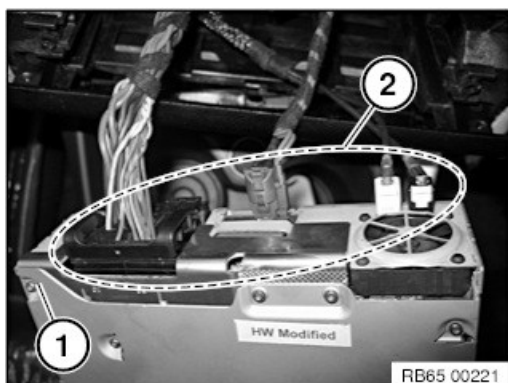
Picture for example purposes only!

Release screws (1).

Pull head unit (2) forward.

Installation note:

Check head unit (2) is correctly seated on retaining lug at marked points.



Unlock and disconnect all plug connections (2) in the marked area.

Remove headunit (1).



Only for US models with satellite radio:

Additional work is required when replacing the headunit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[Install correct navigation map in vehicles with production date starting from 07/2015.](#)

Additionally load service history for the following vehicles:

- 1 series and 2 series F2x, 3 series and 4 series F3x from series introduction
- F01, F02, F03, F07, F10, F11 with production date from 07/2013
- F06, F12, F13 with production date from 03/2014
- F15, F16 from volume production launch
- F18 with production date from 09/2013
- F25 with production date from 04/2014
- F26 as of series introduction

Importing the Service history:

- 05 Maintenance and Pre-Delivery Check
- Service history

**Attention!**

Risk of damage!

There is a hard disk installed in the head unit.

Carry out mechanical work on the head unit and adjacent components with care.

Avoid subjecting the head unit to vibration/shocks.

**Attention!**

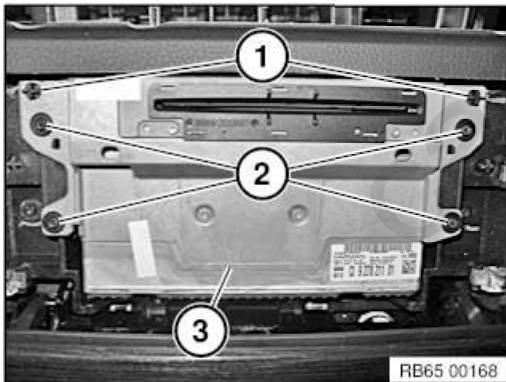
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

**Note:**

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary work:**

- Remove [radio and A/C control panel](#)
- Disconnect [battery earth lead](#) (F03: Disconnect both battery earth leads).

**Note:**

Picture for example purposes only!

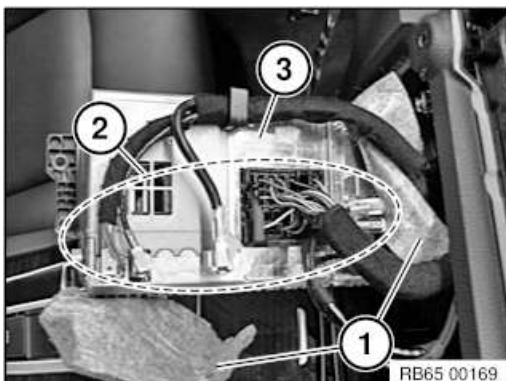
Unfasten screws (2).

Tightening torque [65 12 3AZ](#).

Pull headunit (3) out of guide.

Installation note:

Make sure head unit (3) is correctly seated in guide lugs (1).



Set the protective nonwoven material (1) aside as shown.

Unlock plug connections (2) and disconnect.

Remove headunit (3).



Only for US models with satellite radio:

Additional work is required when replacing the head unit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[Install correct navigation map in vehicles with production date starting from 07/2015.](#)

Additionally load service history for the following vehicles:

- 1 series and 2 series F2x, 3 series and 4 series F3x from series introduction
- F01, F02, F03, F07, F10, F11 with production date from 07/2013
- F06, F12, F13 with production date from 03/2014
- F15, F16 from volume production launch
- F18 with production date from 09/2013
- F25 with production date from 04/2014
- F26 as of series introduction

Importing the Service history:

- 05 Maintenance and Pre-Delivery Check
- Service history



Initialise component protection (only F15, F16, F85, F86):

After renewal of the BDC **or** after installation of a **used** head unit, the component protection in the head unit must be initialised once again.

For this purpose, the following steps must be carried out:

1. Request enabling code from Technical Support.
2. Apply the following immediate measures to reinitialise component protection using the diagnosis system:
 - Vehicle handling
 - Software update
 - Additional software
 - Initialisation of component protection in the head unit (HU)

Observe instructions without fail!

**Attention!**

Risk of damage!

There is a hard disk installed in the headunit.

Carry out mechanical work on the headunit and adjacent components with care.

Avoid subjecting the headunit to vibration/shocks.

**Attention!**

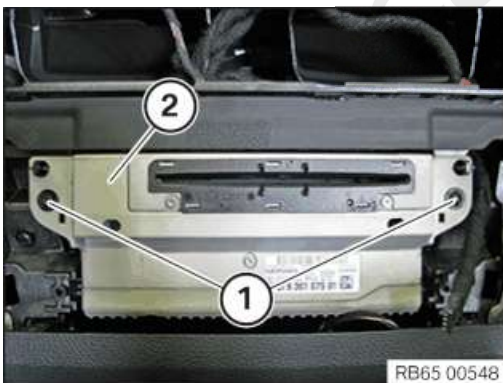
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

*Note:*

Comply with notes and notes on [handling optical fibres](#).

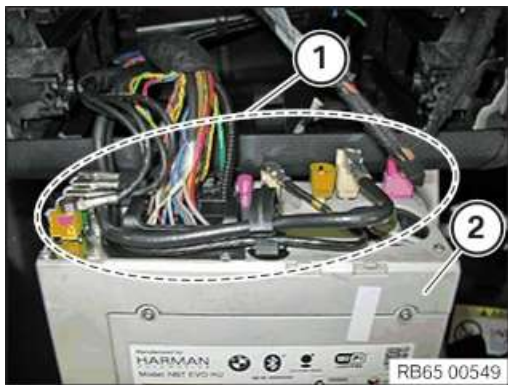
**Necessary preliminary tasks:**

- Remove [radio and IHKA control panel](#)
- Disconnect [battery earth lead](#)

**Removal:**

Release screws (1).

Pull the HU-H (2) out forward.



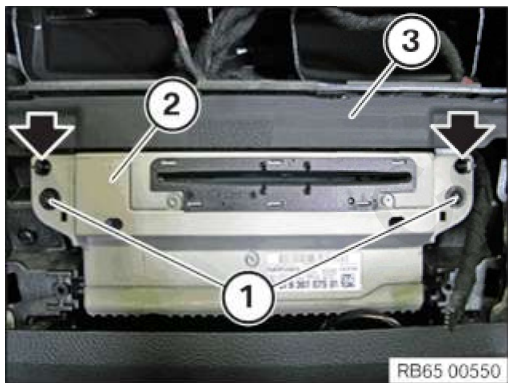
Unlock and disconnect all connectors (1) in marked area.
Remove HU-H (2).



Installation:



Position HU-H (2).
Connect and lock all the connectors (1) in the marked area.



Slide the HU-H (2) toward the back into the instrument panel (3).
Tighten down screws (1).

Note:

Make sure the HU-H (2) is correctly seated on the retaining lugs at the marked points.



Required reworking:

- Install the [radio and IHKA control panel](#)
- Connect [battery earth lead](#)



Only for US models with satellite radio:

Additional work is required when replacing the headunit!

- Refer to document [Replacing satellite tuner, as of 09/2009](#).



Replacement:

Carry out [programming/encoding](#).

[On vehicles with a production date as from 07/2015, install the correct navigation map.](#)

Importing the Service history:

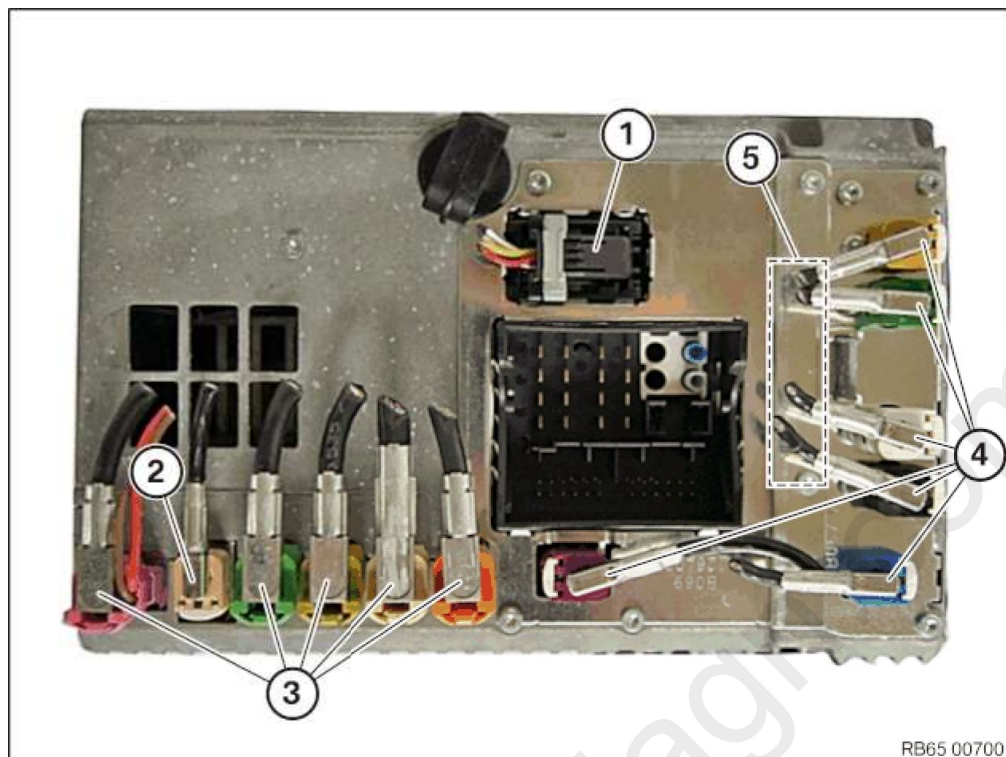
- 05 Maintenance and Pre-Delivery Check
- Service history

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**Attention!**

If **lines are disconnected** in the vehicle interior during a theft of electronic components, the disconnected lines **are to be individually repaired or replaced**.

Replacement **of the complete audio wiring harness is not permitted**.



The figure shows a stolen head unit with connectors and disconnected line parts. Disconnected lines without a connector remain in the vehicle.

The number and arrangement of lines can vary according to the equipment.

All parts necessary for repair are available in the Electronics Parts Catalogue.

1. Repair connector with lines with the "TV module" repair kit.
- 2./4. If the (5) coaxial lines (aerial lines) are cut close to the connector, attach a new connector. Otherwise, completely replace coaxial lines (aerial lines) (line extension not possible).
Exception: The connector cannot be repaired on **RG174** lines.
3. Completely replace HSD lines (repair not possible).

**The following applies in general:**

To avoid damage, observe the following instructions:

- Avoid compressive and tensile loads
- To ensure professional repairs, perform repair work only with BMW-approved or recommended special tools and spare parts
- Make sure cables are laid without kinks or abrasions
- Ensure non-contacting routing at sharp-edged body parts; use edge protection if necessary
- Secure additionally laid cables/leads with cable ties

The following additionally applies:Shielded lines

Interference radiation and interference resistance can lead to neutral zones at contact points in the shielding. Consequently, distinctions have to be drawn between the following types:

Coaxial lines

- Shielded coaxial cables RTK031 may only be repaired with a special [crimping tool](#).
- For aerial lines only the bushing contact may be repaired.
- RG174 Lines and the bushing contact may not be repaired.

CVBS lines

- CVBS cables may not be repaired.
- CVBS cables must be replaced in their entirety.

HSD lines

- HSD cables may not be repaired.
- HSD cables must be replaced in their entirety.

Optical fibre cable:*Note:*

Fibre-optic cables are coloured differently as follows:

- Green = **MOST** (Media Oriented Systems Transport) optical fibres
- Yellow = **ISIS** (Intelligent Safety and Integration System) optical fibres
- Orange=repair fibre-optic cables

Attention!

- Optical fibres are permitted to show only one junction point (bridge). Replace optical fibres if necessary
- Smallest permissible bending radius is 25 mm
- Avoid effects of heat $\geq 85^\circ$

[Treating cables and fibre-optic cables](#)FlexRay (twisted cables):

It is possible to repair the FlexRay. In the event of damage, the cables can be joined with conventional [butt connectors and heat-shrink tubing](#).

Note:

- FlexRay lines may only reveal one separation point (bride); renew complete line if necessary.
- If possible, maintain twisted cable after repair.
- After repairs, twist cables as close as possible to the connector/separation point.
- Twisting must be as symmetrical as possible.

Airbag lines:

[Repairing airbag cables](#)

Ribbon cables:

[Repairing ribbon cables](#)

Replacing wiring harnesses

Repair wiring harnesses mainly cover the full equipment of the vehicle. If certain optional equipment is not installed in the vehicle, note the following:

- If necessary, secure the remaining connectors.
- If necessary, seal the remaining connectors outside the vehicle interior, for example, with butyl tape in such a way that moisture ingress can be eliminated permanently.
- [If necessary, repin the connector of the repair wiring harness.](#)

Note:

Repair wiring harnesses can be equipped with an **additional socket housing** (30-pin, for example), **which was not provided on the previous vehicle-side wiring harness**. This socket housing also cannot be found in the wiring diagram.

Procedure

The separation point between the vehicle-side wiring harness and the repair wiring harness is located **in the vehicle interior** (in the footwell, for example):

- Cut the additional socket housing and connect the lines to the vehicle-side wiring harness using a butt connector.
- Alternatively, a suitable pin housing can be fitted on the vehicle-side wiring harness and connected to the additional socket housing.

However, this is permitted only if the following conditions are met:

- Carpets must not protrude visibly or become deformed due to the installation of the additional plug connection.
- It must be possible to install the adjacent components (for example, trims, trim panels, etc.) correctly after installing the additional plug connection.
- All the attachment points of the adjacent components (for example, trims, trim panels, etc.) must engage correctly.
- There must be no rattling noise due to the installation of the additional plug connection.
- The additional plug connection must not damage the adjacent components/wiring harnesses, etc..

The separation point between the vehicle-side wiring harness and the repair wiring harness is located **outside the vehicle interior** (in the wheel arch, for example):

- Cut the additional socket housing and connect the lines to the vehicle-

side wiring harness using a butt connector.

- **Using the additional socket housing is not permitted with a separation point outside the vehicle interior.**

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**Important!**

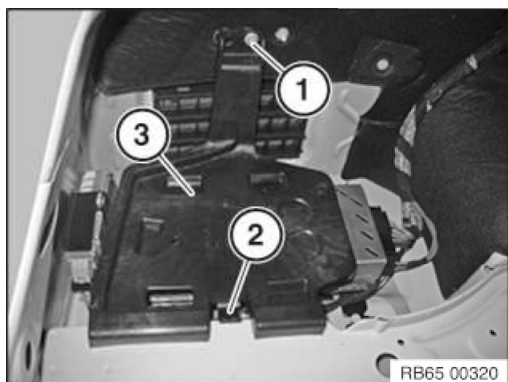
Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

*Note:*

Comply with notes and notes on [handling optical fibres](#).

**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Partially remove [luggage compartment wheel arch panel on left](#)



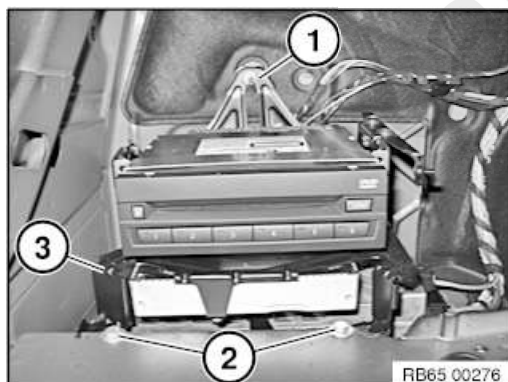
Slacken nut (1).

Unlock catch (2).

Remove cover (3).

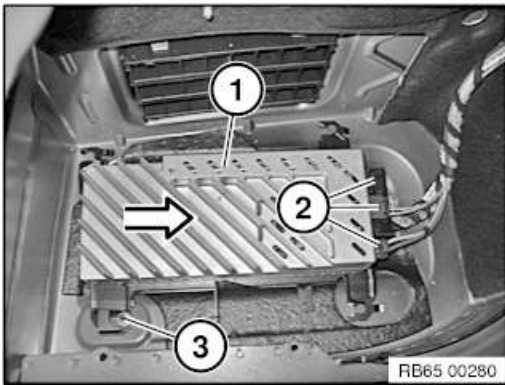
Installation note:

Make sure cover (3) is correctly seated.

Version with TV module or DVD changer:

Unscrew nut (1) and bolts (2).

Take off holder (3).



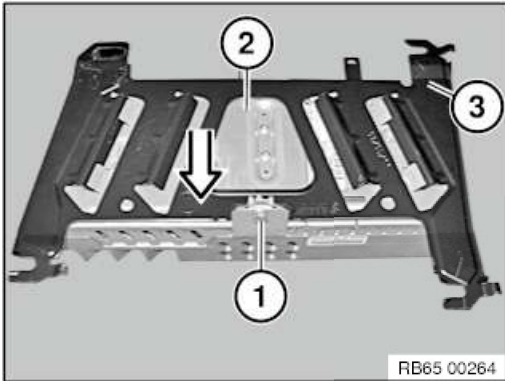
Unscrew nut (3).

Unlock plug connections (2) and disconnect.

Remove amplifier (1) with holder in direction of arrow.

Installation note:

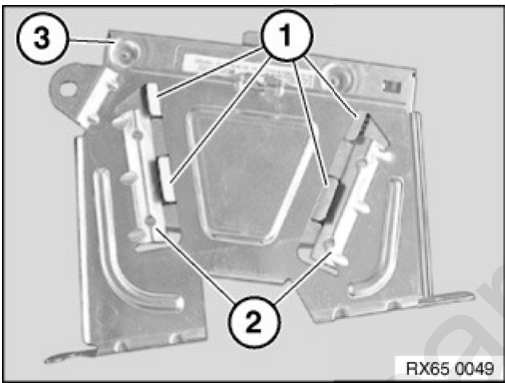
Make sure amplifier (1) is correctly seated.



Replacement:

Release screw (1).

Pull amplifier (2) out of holder (3) in direction of arrow.



Installation note:

Lugs (1) must be correctly slid into guide (2).

Check that amplifier (3) is securely seated.



Replacement:

In Harman Kardon version, perform [vehicle programming and encoding](#).



Important!

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).



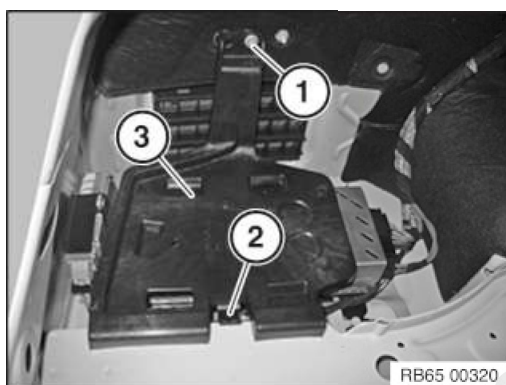
Note:

Comply with notes and notes on [handling optical fibres](#).



Necessary preliminary tasks:

- Disconnect [battery earth lead](#)
- Partially remove [luggage compartment wheel arch panel on left](#)



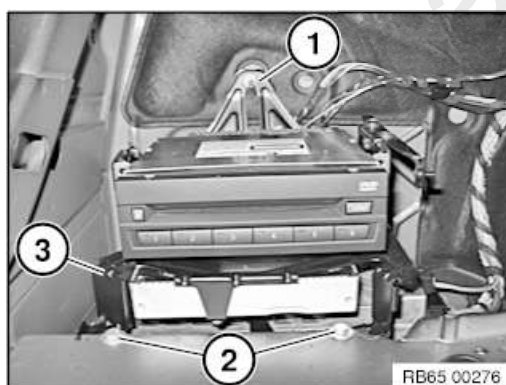
Slacken nut (1).

Unlock catch (2).

Remove cover (3).

Installation note:

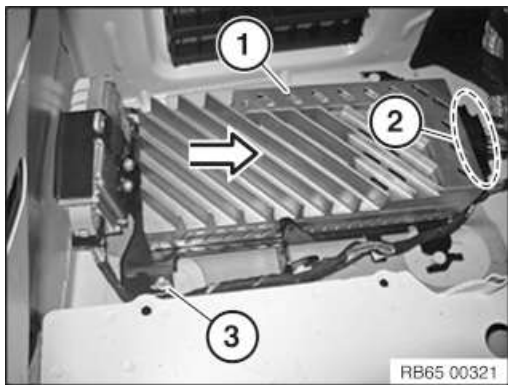
Make sure cover (3) is correctly seated.



Version with TV module or DVD changer:

Unscrew nut (1) and bolts (2).

Take off holder (3).



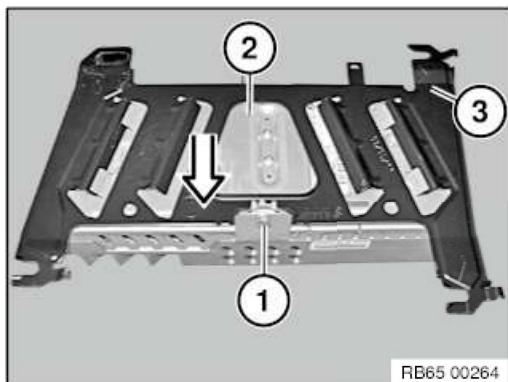
Unscrew nut (3).

Unlock plug connections (2) and disconnect.

Remove amplifier (1) with holder in direction of arrow.

Installation note:

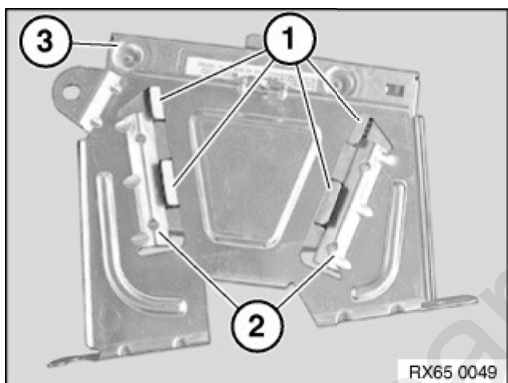
Make sure amplifier (1) is correctly seated.



Replacement:

Release screw (1).

Pull amplifier (2) out of holder (3) in direction of arrow.



Installation note:

Lugs (1) must be correctly slid into guide (2).

Check that amplifier (3) is securely seated.



Replacement:

In Harman Kardon version, perform [vehicle programming and encoding](#).