

## Installation instructions 69701 / 69702: »Mercedes Sprinter«

### 3-way sound system Mercedes Sprinter incl. subwoofer and amplifier and Living room boxes

Model/year: Sprinter (01.2006)



#### Packing list:

1x midrange module (left & right) Mercedes Sprinter, covered  
2x »XE26« neodymium softdome tweeter Ø 26mm incl. mounting kit  
2x »XE80« full range driver Ø 80mm  
2x »XM165« low-midrange driver „Power-Woofer“ Ø 165mm  
2x mounting ring for »XM165 incl. cover grille  
1x 3-way crossover (left & right) Mercedes Sprinter (Art.-No.: 65700)  
1x mounting kit - Mercedes Sprinter (Art.-No.: 65700)  
1x 5-channel DSP amplifier  
1x vehicle specific subwoofer enclosure

#### for sound package 2 (69702):

2x living room boxes of your choice incl. assembly set and assembly instructions



#### Mounting set art. no. 65701/ 65702:

»XE26«: 2x mounting bracket  
2x M4x10 for mounting bracket

Other: 8x sheet metal nut 3.9 Vz  
8x sheet metal screw pan head 3,9 x 19 (black)  
4x Spax countersunk screw 3,5 x 20  
1x Spax countersunk screw 3,5 x 30  
1x Spax countersunk screw 4 x 50  
1x Spax countersunk head screw 4 x 60  
1x Spax countersunk screw 4 x 70

Subwoofer: 4x Velcro dots and Velcro discs  
4x pan-head screw 3.5 x 13

#### Required accessories - front system:

Speaker cable 1.5mm<sup>2</sup>: approx. 12m (recommendation)  
16x flat receptacles: 6,3 x 0,8mm (for crossover input and output)  
4x flat receptacles: 4,8 x 0,8mm (for woofer and midrange + pole)  
4x flat receptacles: 2.8 x 0.8mm (for woofer and midrange + pole)  
4x flat tabs: 6,3 x 0,8mm (connection to tweeter)  
4x insulated butt connectors (connection radio to crossover)

#### Warranty:

As the manufacturer, we warrant these sound systems for 2 years from the date of purchase from the dealer. Within this warranty period, we will, at our option, repair or replace free of charge all defects that are due to material or manufacturing faults. Excluded from the warranty are damages caused by improper use or installation, wear and tear or interventions by third parties.

The warranty does not cover consequential damage or defects that only insignificantly impair the value or usability of the sound systems. A warranty obligation is not triggered in the case of damage caused by external influences. Systems with additional or incorrect mounting holes are excluded from exchange. These are damages to the components that cannot be repaired.

## **General installation instructions - must be observed!**



### Power supply:



The amplifier must be supplied with a separate power supply to the body battery with a cable cross-section of 2.5mm<sup>2</sup> (for standard variant)/ 10mm<sup>2</sup> (for high power variant) and a fuse protection of the amplifier with 20A/30A.



### Radio settings:

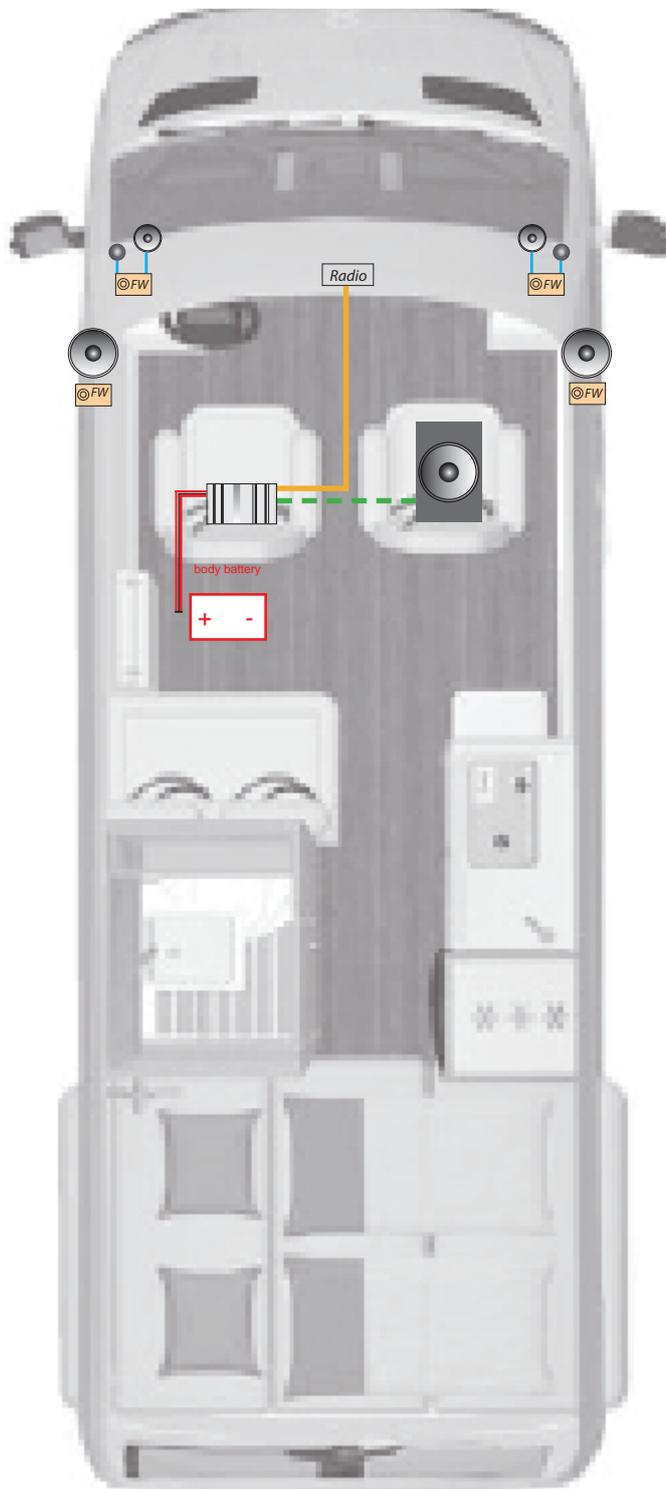


To achieve the best sound, all settings on the radio (bass, treble, loudness, equalizing, etc.) should be set to ZERO or OFF.

### Installation Notice:

To avoid vibration noise, secure all cable harnesses with insulating tape or similar.

## Cable routing / connection scheme



### Tweeter »XE 26«

Mounting in the dashboard in the mid-high module, pre-installed.

### Mid range »XE 80«

Mounting in the dashboard in the mid-high module, pre-installed.

### Woofer »XE130G«

Mounting in the vehicle side panels.

### Crossovers

MHT crossover vehicle specific

Mounting behind the A-pillar trim laterally in the cavity of the dashboard.

TT crossover vehicle specific

Mounting in the side panel.

### Subwoofer

For example, housing for mounting under the passenger seat incl 4.8m »plug & play« subwoofer cable.

### Amplifier / Radio

5-channel digital sound processor/amplifier.

### Power cable 12V+

#### Ground cable

2.5mm<sup>2</sup> / 20A fuse (standard variant).

10mm<sup>2</sup> / 30A fuse (high power variant).

The position of the body battery, subwoofer and amplifier is not identical in every vehicle!

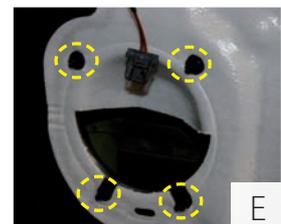
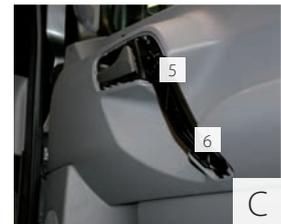
## 1. disassemblies

### 1.1. seats

- **Disconnect all plugs from the seats!**
- Remove the driver and passenger seats from the vehicle (Important: Disconnect the plug!)

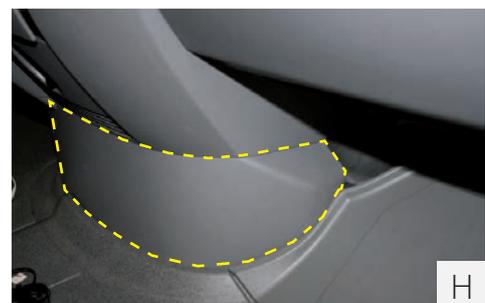


### 1.2. door panels



- Remove screws 1-4 (see Fig. A).
- Lever out the cover (see Fig. B) with a plastic wedge and remove it.
- Remove screws 5-6 (see fig. C) under the cover
- Carefully pry out the panels starting from the bottom, paying attention to the panel clips
- Unplug and remove the factory woofers in the door (see fig. E)
- Remove the mounting dowels of the woofers with pliers (see fig. F)

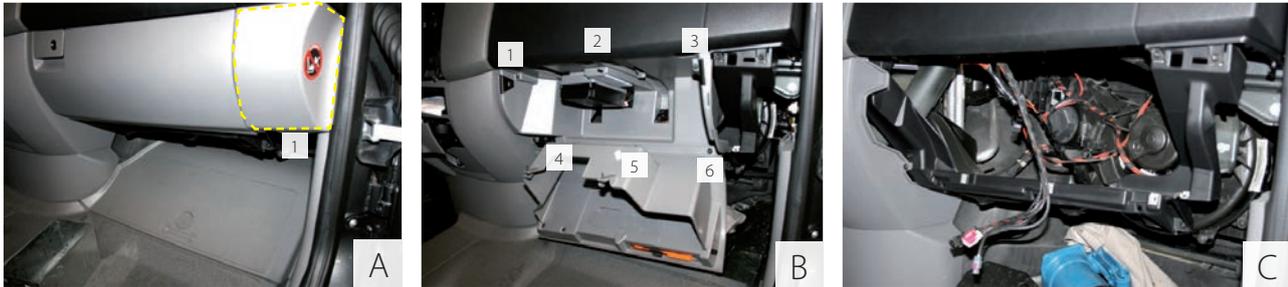
### 1.3. rubber mat in the footwell



- Remove the cover in the footwell under the glove compartment.
- Remove all screws (see Fig. G) in the footwell (driver and passenger side).
- Remove other covers in the footwell to be able to remove the Mercedes rubber mat

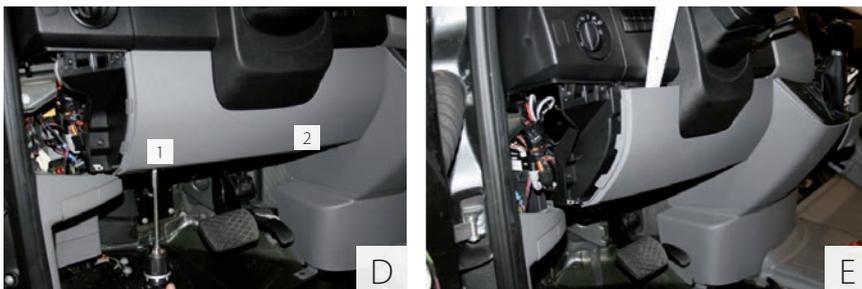
## 1. disassemblies

### 1.4 Side covers and glove box



- Remove the side panel next to the glove compartment (see Fig. A) (driver's and passenger's side); to do this, remove screw (1).
- Remove screws 1-6 (see Fig. C)
- Disconnect lighting and remove glove compartment from vehicle (optional (if available): disconnect navigation module)

### 1.5. covers under dashboard



- Remove screws (1-2) of the plastic trim below the steering wheel (Fig. D).
- Loosen the trim with a plastic wedge (Fig. E)

### 1.6. Radio



- Open the storage compartment above the radio on the dashboard
- Use a plastic wedge to loosen the radio cover starting from the top
- Remove 4 screws (see fig. H)
- Pull out the radio to the front, remove the Quadlock connector and Fakra connector

## 2. preparation speaker connections



- Route the crossover input from the radio compartment, starting behind the dashboard, to the crossover mounting location (Fig. A)



- Drill a hole ( $\varnothing$  6.5 mm) in the original cup holder on the dashboard for the cable feed-through (Fig. B).
- Run the connection cables for the tweeter and midrange speaker from the respective speaker positions to the installation location of the crossover (for cable routing, see Fig. A)



- All connection cables (tweeter, midrange and woofer) as well as the crossover input for the connection of the loudspeakers with the respective (crimp on) the respective plugs.

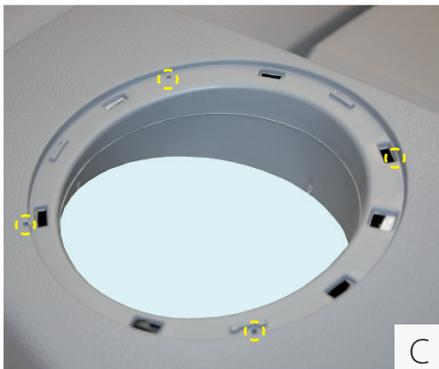
## 3. woofer mounting in the vehicle doors

### 3.1 Recommendation: Insulation of the door lining



- Line the door panels from behind with Alubutyl. see (Fig. A), then glue insulating fleece over the entire surface. see (Fig.B)

### 3.2 Preparation of door panels



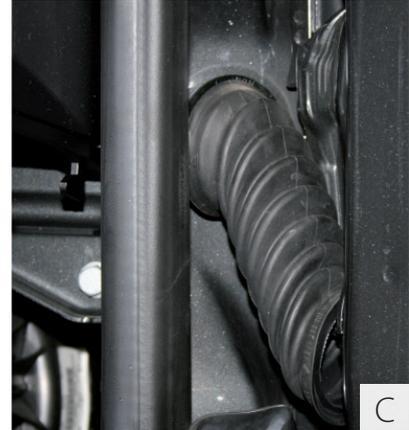
- Position the JEHNERT woofer incl. mounting ring centrally on the door panel and mark the screw points.
- Pre-drill the marked screw points with a 2 mm drill bit (Fig. C).
- Align sheet metal nuts (Ø 3.9 mm) on the back to match the screw points and secure with hot glue or similar (Fig. D)
- Optional: Apply compression tape to the back of the mounting ring to prevent vibrations



- Mount woofer incl. mounting ring with pan-head screws 3.9x19 on the front of the door panel.
- Do not mount door panel again yet!

## 3. woofer mounting in the car doors

### 3.3 Preparation of vehicle doors



- Mark the cutout for the woofer on the factory foil
- Cut away the door foil at the marking with a cutter
- Loosen the door grommet (rubber sleeve)



- **Optional:** Seal the speaker cutout with Rainstop (see Fig. D).  
Do not forget the cut for the speaker cable!
- Route the woofer cable from the installation location of the crossover (glove compartment) through the original door bushing (rubber sleeve see fig. C) to the mounting location of the woofer (vehicle doors) and connect it.
- Then mount the door bushing (Fig. C) again.
- The (insulated) door panel can now be refitted - reconnect all cables!
- Put the loudspeaker cover on the loudspeaker

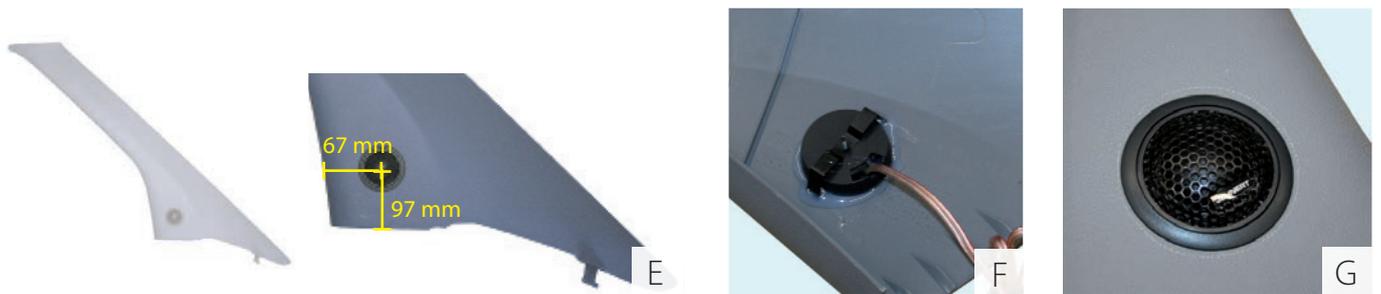
## 4. tweeter mounting

### 4.1 Disassembly of the A-pillar



- Remove the factory loudspeaker covers of the tweeter using a plastic wedge (see Fig. A).
- Then lever out the A-pillar, also with the aid of a plastic wedge (see Fig. C)

### 4.2 Tweeter preparation



- Remove the tweeter from the housing (bayonet catch).
- Position the speaker mounting bracket on the A-pillar (see Fig. E) and mark the cut-out. The tweeter must not protrude over the edge!
- Drill out the marked cutout with a drill bit (smaller diameter than the marking) and then use a Dremel to adapt the cutout to the rear side of the mounting bracket (Ø 48 mm).
- Insert the mounting bracket into the cutout
- Fix the tweeter once all around with hot glue in the cutout on the A-pillar (Fig. F). Important: The Jehnert signet should be horizontal!
- Connect the tweeter and then mount the A-pillar again.



## 5. midrange assembly



- Place the module for the midrange speaker on the dashboard and screw it tight.
- Connect the midrange driver to the crossover network
- Screw the loudspeaker into the module and then mount the cover panel



- |   |               |
|---|---------------|
| 1 | Spax 4 x 70   |
| 2 | Spax 4 x 60   |
| 3 | Spax 4 x 50   |
| 4 | Spax 3,5 x 20 |
| 5 | Spax 3,5 x 20 |
| 6 | Spax 3,5 x 30 |

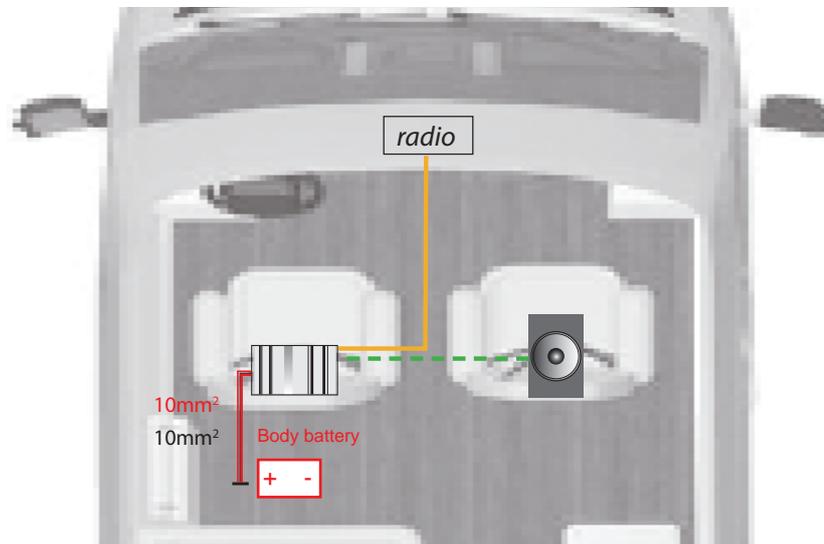
## 6. mount crossovers



- Connect crossover
- Route the crossover from below behind the dashboard (see Fig. C)
- Secure with cable ties or similar to ensure a secure hold
- If necessary, secure crossover with insulating fleece or similar to prevent vibration

When mounting the crossover without a housing, make sure that the copper circuit board is protected against short circuits by insulating fleece or similar.

## 7. amplifier mounting (optional: subwoofer controller mounting) (alternatively mounting amplifier under passenger seat)



- Open the original cable gland (cable shaft) (Fig. B).
- Lay the ISO cable from the center console (radio) through the shaft to the mounting location of the amplifier (Fig. B,C)



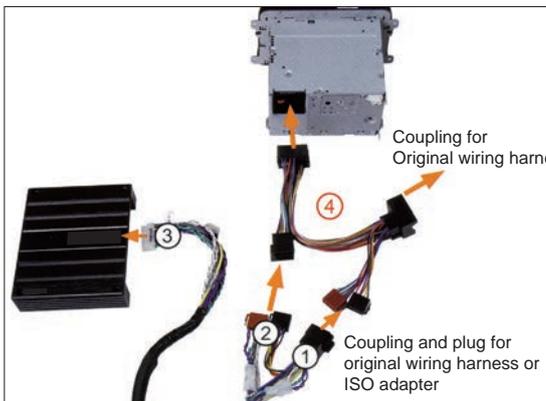
- Optional: Lay the cable for the URC remote control (controller for controlling the subwoofer) from the center console (radio) through the shaft to the mounting location of the amplifier.  
the shaft to the mounting location of the amplifier (mounting location example for the URC see Fig. D) positioning freely selectable.
- Lay the 4.8m subwoofer cable from the subwoofer mounting location to the amplifier (Fig. A).
- Connect the ISO and subwoofer cable (plug and play) to the amplifier (fig. E)
- Depending on the position of the body battery (if it is under the driver's seat), the amplifier may have to be installed in a different place.  
be installed. (unit dimensions 44 x 185 x 164 mm) An optional mounting location (see Fig. F) would be under the cover in the footwell on the passenger side.  
footwell on the passenger side.  
This must also be taken into account when laying the cables!

## 8. connect radio

The amplifier must be supplied with a separate power supply and ground to the body battery (under the driver's seat) with a cable cross-section of 10mm<sup>2</sup> and a fuse rating of 30A.

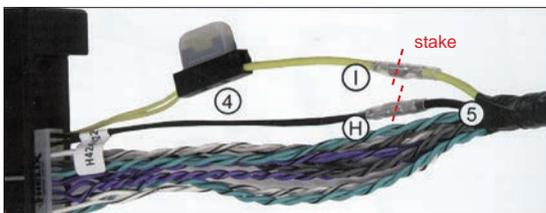
### Amplifier connection »Standard amplifier«:

#### 1. connection to the car radio



- ISO coupler - the wiring harness of the original radio or an ISO adapter is plugged in here.
- ISO plug - these are plugged into the original radio or ISO adapter.
- This 20-pin connector is plugged into the amplifier.
- **Optional:** ISO adapter - if the ISO connectors of the supplied wiring harness do not fit the original radio, an ISO adapter must be used.

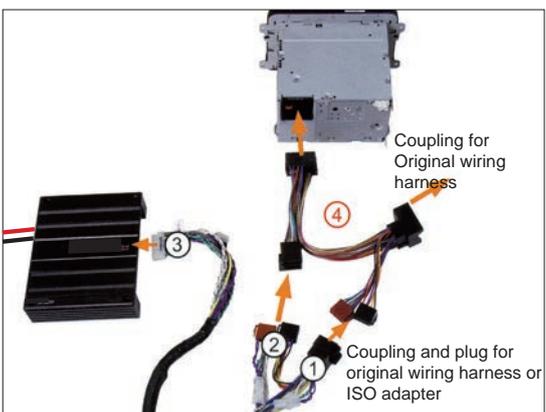
#### 2. connection for direct power supply from the battery.



- This side is connected directly to the battery. For this purpose, the cable connections I and H are disconnected.
- After disconnecting cable connections I and H, the open ends must be insulated individually.
- I +12 volt line for connection to the positive pole of the car battery.
- H Ground line for connection to the negative pole of the car battery or for connection to the ground point of the car chassis.

### Amplifier connection »High Power amplifier«:

#### 1. connection to the car radio

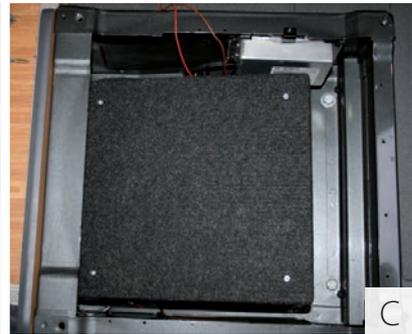


- ISO coupler - the wiring harness of the original radio or an ISO adapter is plugged in here.
- ISO plug - these are plugged into the original radio or ISO adapter.
- This 20-pin connector is plugged into the amplifier.
- **Optional:** ISO adapter - if the ISO connectors of the supplied wiring harness do not fit the original radio, an ISO adapter must be used.

The power connection is made directly to the battery using a 10mm<sup>2</sup> cable - the positive wire must be fused just before the battery (60A).

## 9. subwoofer mounting (under passenger seat)

- Place the subwoofer housing appropriately in the seat console and leave enough space around the sides, otherwise vibrations and disturbing noises may occur.  
otherwise vibrations and disturbing noises may occur.
- Connect the subwoofer cable (plug and play) to the connection terminal of the subwoofer.
- Fix the cabinet to the floor with the supplied Velcro pads, or with the help of an aluminum bracket (not included in delivery) to the seat console.



## 10. assembly

### 10.1. seats

- **Reconnect all plugs on the seats!**
- Reinstall the driver and passenger seats in the vehicle (Important: Connect the plugs!)



### 10.2 All assemblies

- Laying out Mercedes rubber mat in the footwell
- All dismantled covers in the footwell can be mounted again
- Refit the glove box and side covers
- Screw or install other disassemblies again

### 10.3. Radio



#### Radio settings:

To achieve the best sound, all settings on the radio (bass, treble, loudness, equalizing, etc.) should be set to ZERO or OFF.

**Mercedes Sprinter** from 2006-2018,  
Soundpackage 1 and 2

**Assembly instruction**  
Status: 01.10.2021

**JEHNERT**  
*Sound Design*  
A U T O M O T I V E

## Notes

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## Notes

If you have any questions, please do not hesitate to contact our team in Pliezhausen:

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