

VW T6.1
Cab system

Assembly instructions

Status: 12.03.2024

Art. No. 65410

JEHNERT
Sound Design
AUTOMOTIVE

3-way cab system

Installation instructions: Sound system VW Bus T6.1 Article 65410

Packing list:

2x XE 26 - neodymium tweeter \varnothing 26mm
2x XE 80 - high-end midrange driver, \varnothing 80mm (already mounted)
1x midrange/tweeter module (right + left) VW T6.1, cover: artificial leather
2x XM 165 - Low-midrange speaker „Power-Woofer“ \varnothing 165mm
incl. pre-assembled adapter rings
2x 3-way crossover VW T6.1 4-piece - art. no. 65410
2x mounting template for A-pillar



1x mounting kit for mid/high modules:

2x screw M 4 x 20
4x M 4 x 30 screw
2x screw M 4 x 40
2x screw M 4 x 45
10x washer \varnothing 12mm
12x nut M4
2x washer \varnothing 20mm

1x woofer mounting set:

4x M4 x 25 screws
4x washer \varnothing 4mm
4x M4 polystop nut
8x 3.9 x 16 countersunk head screws



required tools:

Phillips screwdriver
Torx screwdriver (TX 25)
Cutter knife (sharp!)
Hot glue gun
Hot air gun
Plastic wedge
insulating tape
White marker

Installation note:

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

Radio setting note:

To achieve the best sound, all settings on the radio (bass, treble, loudness, etc.) should be set to zero or neutral.
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1. Removing the door panelling

1.1. Lower the window pane completely.



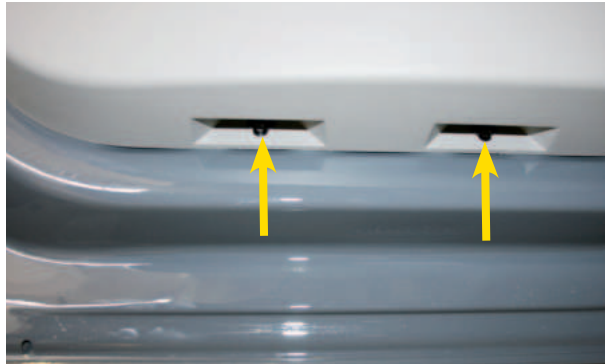
1.2. Unclip door handle



1.3. Switch unit, starting at the door lock switch, lever out



1.4. Remove the screw in the centre of the door panel.

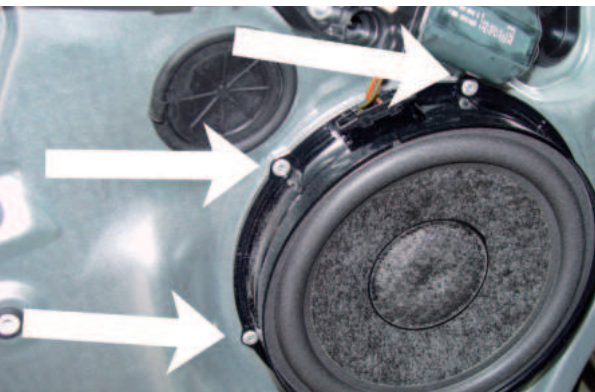


1.5 Lower edge of the door panelling:
Unscrew 2x plastic rivets

1.6 Starting from the bottom, unclip the door panelling by pulling and lifting it upwards.
(The clamping strip on the bottom edge of the window is still attached).

1.7 Unclip the door release bowden cable - pull the cable sheathing on the opening lever by 1 cm - then unhook.

1.8. unplug the „alarm light, window regulator and mirror adjustment“ connector.



1.9. Unplug the original loudspeaker connection and remove the factory woofer (drill out and remove the fastening rivets).
->> Make absolutely sure that the pieces of metal do not fall into the inner area of the door.
Tip: Stick adhesive tape behind the rivet).
Alternatively, loosen the original screws and keep them for later assembly.

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A U T O M O T I V E

2. Woofer installation - original installation location in the vehicle doors



2.1 Fasten the mounting ring with 4x M4 x 25 screws, 4mm washers and M4 polystop nuts (Fig. B) and connect the JEHNERT loudspeaker connector to the JEHNERT loudspeaker (Fig. C)

2.2 Fasten the speaker to the mounting ring with 8x 3.9 x 16 countersunk head screws and connect the original speaker connector plug to the JEHNERT speaker connector plug (Fig. D)

ACHTUNG!!! the cable connections of the woofer must not come into contact with the inner door panel
--> insulate if necessary.

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

3. Insulation of vehicle doors and door panelling

Important recommendation:

The use of woofers in the door panelling causes vibrations due to the oscillation of the bass, which can lead to rattling noises in the vehicle door:

Measures against vibration noise:

3.1. Insulation of the vehicle doors

- Cover the back of the door panelling with insulating fleece (order no. 27000) or foam
or
- Stabilise the back of the door trim with stiffening compound (GRP fibre filler or similar)
IMPORTANT: Always leave the cut-outs for the door airbag and loudspeakers free!
- Apply self-adhesive bitumen mats / tar mats to the *rear side of the inside door panel (= outer door skin)
bitumen mats / tar mats (example see illustration below).
- by knocking on the vehicle door, vibration noises from door mechanism parts (e.g. Bowden cables etc.)
and cable harnesses and wrap them with foam / felt, foam rubber or similar.
- Cut off protruding cable ties (rattling noises!)
- Glue felt or foam under the original wiring harness

3.2. Insulation on the back of the door panelling

- Cover the back of the door panelling with insulating fleece (order no. 27000)
or foam
or
- Stabilise the back of the door trim with stiffening compound (GRP fibre filler or similar)

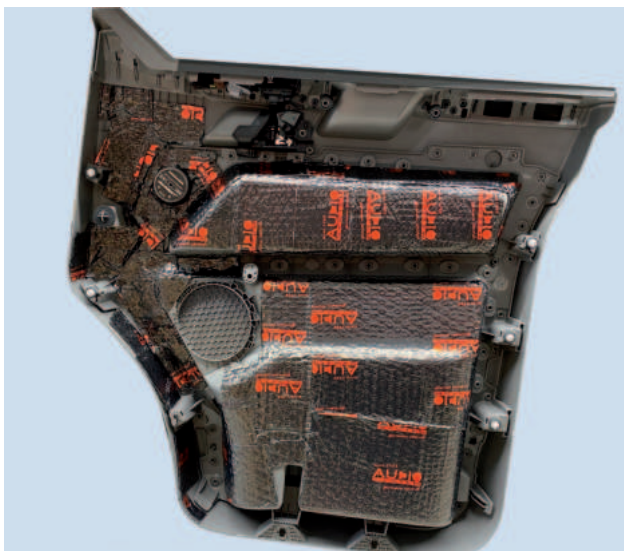
IMPORTANT: Always leave the cut-outs for the door airbag and loudspeakers free!



ATTENTION / Danger !!!
No insulating material behind side airbags



IMPORTANT:
No insulating material behind speakers and door releases.
Leave out the fastening clips



First insulation layer with aluminium butyl mats



Second insulation layer with insulating fleece mats

4. Fitting the door panelling to the vehicle doors

4.1. Hook the door panelling into the top of the door shaft strip.

4.2. Reattach the door panelling in reverse order.
in reverse order. Ensure that the clips are unlocked, see fig.



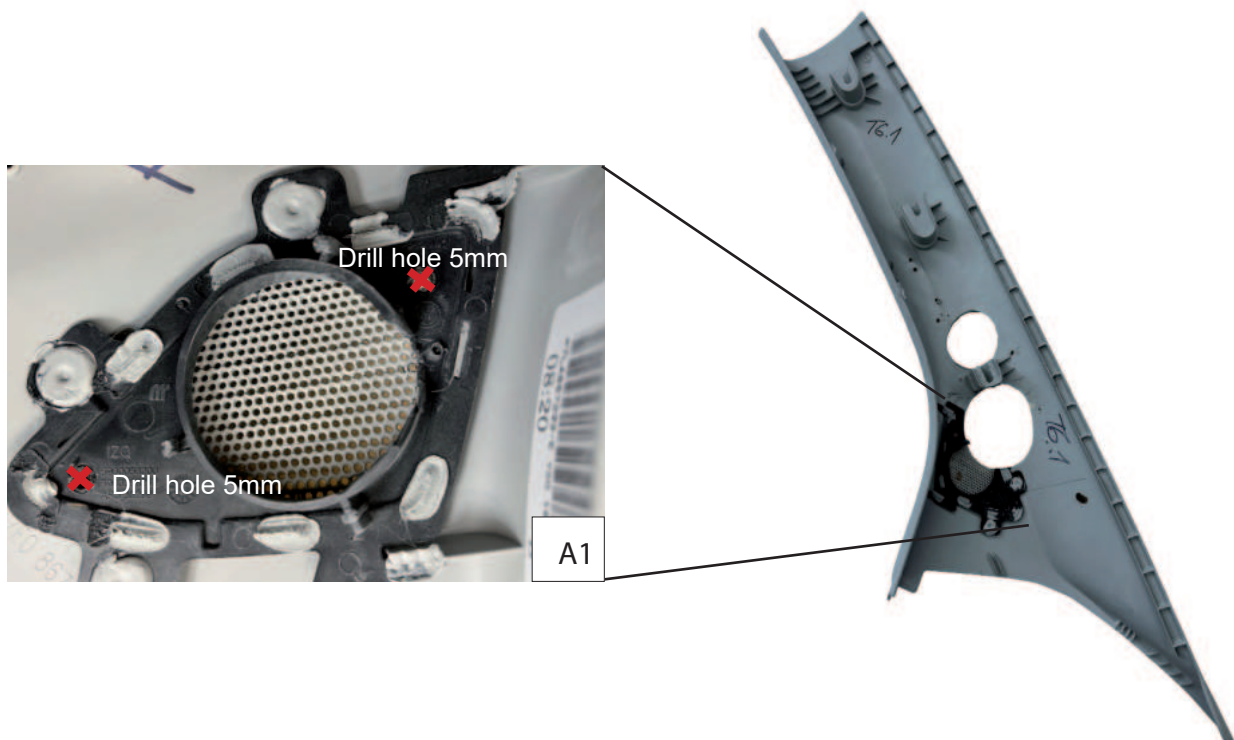
Final inspection after door panel installation:

Check all functions of the controls such as seat adjustment, glove compartment opening, window lifters, etc.

5. Mounting the mid-high module on the A-pillar

5.1. Dismantle the A-pillar.

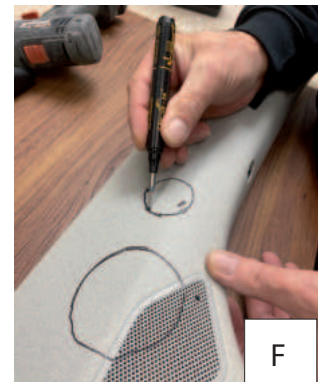
Tip: To protect the A-pillar from scratches, cover the surface all round with adhesive tape.



5.2. Drill holes (5mm Ø) on the rear of the A-pillar as shown in Figure A1. The drilling points are on the centre of gravity of the factory tweeter mounting



5.3. Insert the longest screw stubs through the lower holes of the moulded part and use them to align the moulded part on the A-pillar with the holes (see illustration B). Mark the hole for the threaded rod (see illustration C) (screws serve as a guide for the time being)



5.4. Pre-drill the hole for the threaded rod with a 10 mm drill bit. (see figure D)

5.5. Centre the moulded part on the A-pillar using the threaded rod and the guide screws and mark the holes for the loudspeakers and the last screws. (see illustration E/F)

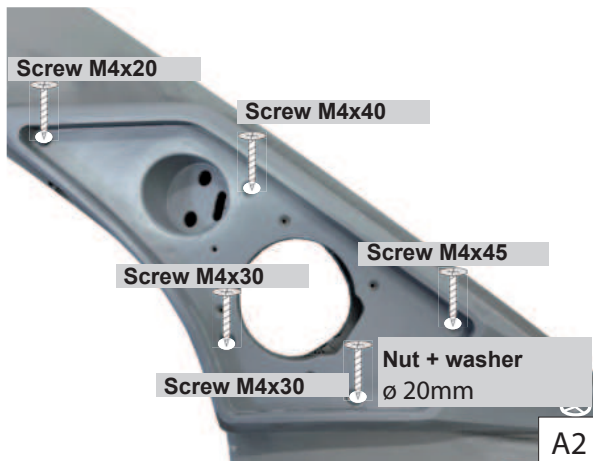


5.6. Cut out the holes for the speakers using a jigsaw, a multitool or a hole saw. (see illustration G)

5.7. Reposition the moulded part; it may be necessary to make improvements to the cut-out around the tweeter cut-out. (see illustration H/I) Repeat this step until the moulded part is flush with the A-pillar.

5.8. Fix the moulded part with the screws shown in Figure A2.

ATTENTION: Screws that were used as guides are needed elsewhere!



5.9. Connect the midrange and tweeter to the cross-over (red or labelled cable ⇒)



5.10. Refit the A-pillar panelling and Attach the cover panel ATTENTION

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Notes:

Guarantee:

As the manufacturer, we guarantee these sound systems for 2 years from the date of purchase from the specialist dealer. Within this warranty period, we will, at our discretion, repair or replace free of charge all defects caused by material or manufacturing faults, manufacturing defects. The guarantee does not cover damage caused by improper use or installation, wear and tear or tampering by third parties. The guarantee 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 event of damage caused by external influences. Systems with additional or incorrect mounting holes are excluded from exchange. These are damages to the components, which cannot be repaired.

Our team in Pliezhausen will be happy to help and advise you at any time:

JEHNERT Sound Design

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