

VW Bus T6

Sound package 1 cab system 65400-2

Assembly instruction

Stand: 02.11.2023

Art. Nr. 69400-82-2

JEHNERT
Sound Design
AUTOMOTIVE

Installation instructions: Sound system VW Bus T6 Article 69400-82-2

3-Wege-Fahrerhaussystem 65400-2

Subwoofer for mounting under T6 passenger seat and amplifier

Packing List:

2x XE 26 - neodymium tweeter ø 26mm
2x XE 80 - high-end midrange driver, ø 80mm
1x midrange module (right + left) cover: imitation leather in gray or anthracite
2x XM 165 - low-midrange driver „Power-Woofer“ ø 165mm
2x adapter ring for XM 165 part no. 271320-24
2x 3-way crossover VW T6 - item no. 65400 plug&play 2-piece
1x Digital 5-channel amplifier High Power incl. 2,2m connection cable
1x Subwoofer 17022 incl. 1m connection cable
2x Mounting template for A-pillar

1x mounting kit subwoofer 4x mounting angle 21,5x3x1cm
8x self-tapping screw Torx 4,8 x 22
4x countersunk screw M4 x 16 (hexagon)
4x Polystop nut M4
4x washer ø 12mm
2x felt 40cm

1x mounting kit woofer: 12x countersunk screw M4 x 16 (hexagon)
12x washer 5mm
12x M5 polystop nut
8x pan-head screw 3,9x16

1x mounting kit mid-high: 2x screw M 4 x 25
4x screw M 4 x 40
4x screw M 4 x 45
12x washer ø 12mm
12x nut M4

Optional on order: Vehicle specific radio connection cable for factory VW radio



Installation note:

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

Radio Adjustment Notice:

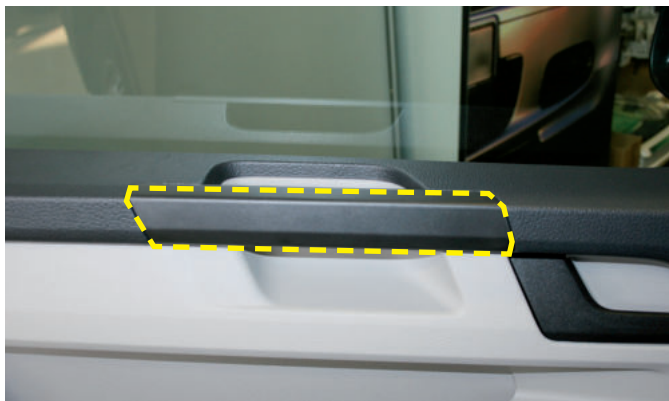
To achieve the best sound, all settings on the radio (bass, treble, loudness, etc.) should be set to should be set to zero or neutral.

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 based on material or manufacturing defects. 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.

1. disassembly of the door panels

1.1. lower the window pane completely.



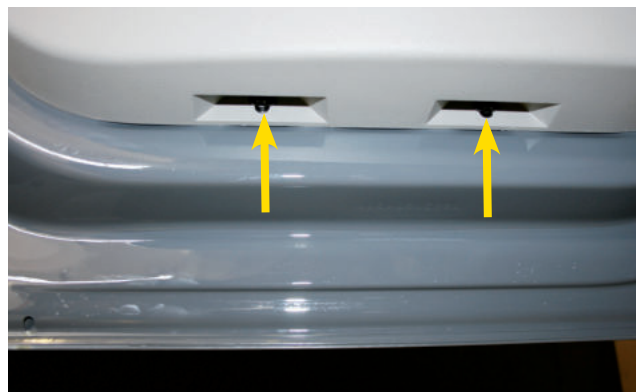
1.2 Unclip the door handle



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



1.4. remove the screw in the middle of the door panel.



1.5. lower edge of the door trim:
Unscrew 2x plastic rivets

1.6 Unclip the door trim starting from the bottom by pulling and lift it upwards.
(Clamping strip on the lower edge of the window is still attached).

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

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



1.9. disconnect original loudspeaker connection and remove factory woofer
(Drill out and remove fastening rivets
->> make sure that the metal pieces do not fall into the inner area of the door.

Tip: stick adhesive tape behind the rivet).

2. crossover assembly

The radio must be removed to adapt the input of the crossover.



2.1 Use a plastic wedge to lever off the radio bezel (incl. ventilation nozzles). lever off with a plastic wedge.

2.3 Adapting the loudspeaker cable with the radio
 (Radio connections: „Front left“ and „Front right“).
 Route cable to crossover mounting location
 right and left under the dashboard. Connect cable to
 Connect crossover input.

2.4. connect speaker cables for tweeter, midrange and woofer to the
 to the labeled crossover output (with 6.3mm
 crimp connector), mark midrange and tweeter cables.
 Wrap crossover with damping fleece or similar, insert right and left
 under the dashboard on the right and left side and make sure
 and ensure a tight fit (e.g. with cable ties).



2.2 Remove the 4 Torx screws (TX20) underneath.
 Pull out the radio and disconnect the quadlock connector.



2.5. lead the woofer cable to the woofer installation location
 through the rubber grommet to the vehicle door.



2.6 Route the mid-range and tweeter cables under the dashboard to
 the A-pillar.



Zur Vermeidung von Vibrationsgeräuschen alle Kabelstränge mit Isolierband o.ä. sichern.

3. woofer mounting - original installation location in the vehicle doors.

☞ To protect the woofer and adapter ring from water ingress, we recommend attaching a „Rainstop mat“ (see Fig. 3.1, gray mat under the mounting ring, included in delivery).



3.1. Cut the Rainstop mat to the size of the mounting ring. and make a circular cut in the lower area. Place the mounting ring with the Rainstop mat on the factory opening with the 6 screws supplied (M4 x 20 (M4 x 20 - hexagonal). At the front and rear, shim with 12 mm washers at the front and rear.

Note: After all woofers are connected to the crossover, the polarity of all woofers should be checked at a 9 volt battery (on crossover input cable on radio/power amp side):

Pole of FW input + to + of 9 V battery.

Pole of FW input - to - of 9 V battery

Both woofers must resonate evenly during this check!

A reversed polarity of the woofer can cancel the entire bass response!

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

Original speaker terminal

Connection woofer

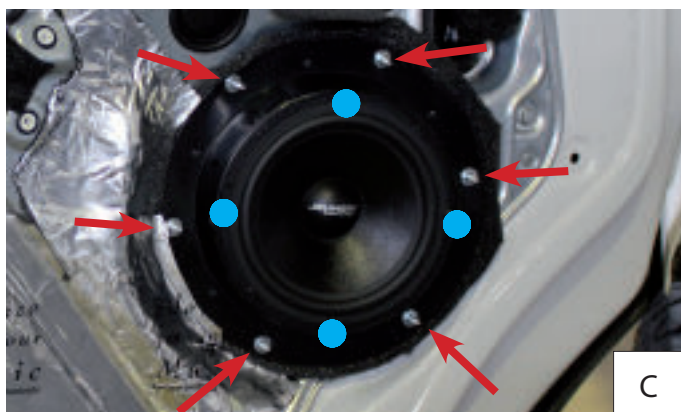


Low frequency crossover

3.2 Connecting the woofers to the crossover network

ATTENTION!!!

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



3.1 Fasten the mounting ring with 6x M5 x 30 screws, 5mm washers and M5 polystop nuts each (Fig. C). Then fasten the loudspeaker to the mounting ring with 4x 3.9 x 16 raised countersunk head screws each (●) and connect the original loudspeaker connector with the JEHNERT loudspeaker connector and the JEHNERT loudspeaker.

4. Dämmung der Fahrzeurtüren und Türverkleidungen

Important recommendation:

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

Measures against vibration noise:

4.1. insulation of the vehicle doors

- Cover the back of the door trim with insulating fleece (Order No. 27000) or foam material.
or
- Stabilize rear side of door trim with stiffening compound (GRP fiber filler or similar).
IMPORTANT: Make sure to leave the cut-outs for the door airbag and speakers free!
- Cover the *backside of the door panel inside (=outer door skin) with self-adhesive bitumen mats / tar mats (see example below).
- by tapping the vehicle door, vibration noises of door mechanism parts (e.g. Bowden cables etc.) and localize 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

4.2. insulation of the rear side of the door panel

- Apply insulation fleece (Order No. 27000) to the back of the door trim.
or foam
or
- Stabilize the rear side of the door trim with stiffening compound (GRP fiber filler or similar).

IMPORTANT: Make sure to leave the cut-outs for the door airbag and speakers



ATTENTION / Danger !!!

No insulating material behind side airbags



IMPORTANT:

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



1. first insulation layer with alubutyl mats
2. second insulation layer with insulation fleece mats

5. mounting the door panels on the vehicle doors.

5.1 Hook the door panel into the top of the door shaft strip.

5.2 Reattach the door trim in reverse order.
Ensure that the clips are unlocked, see Fig.



richtig



Prüfen Sie vor der
Montage der
Türverkleidung, dass alle
Klipse entriegelt sind.



falsch



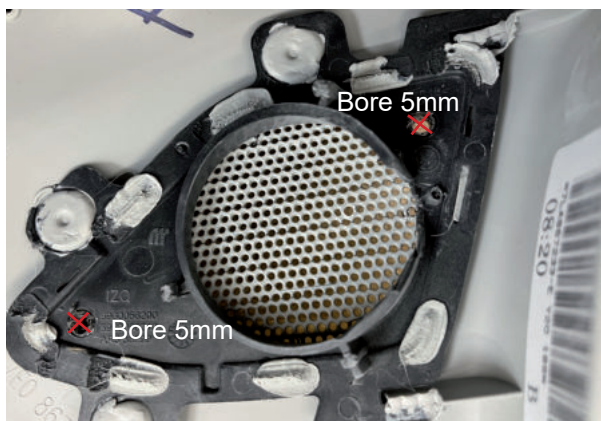
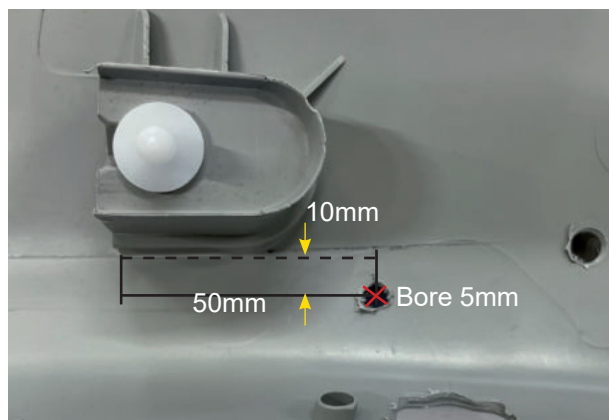
Final check after door panel assembly:

Check all functions of controls such as seat adjustment, glove box opening, window regulator, etc.

6. mounting mid-high module on the A-pillar

6.1 Dismantle the A-pillar.

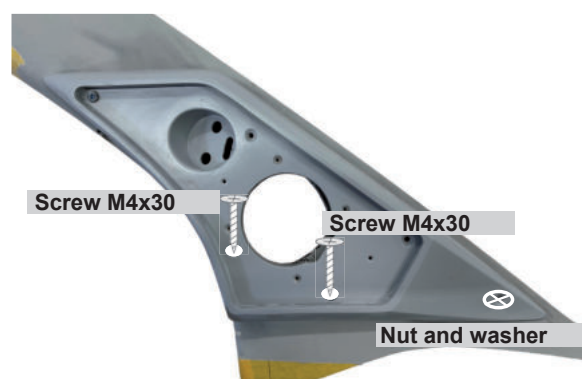
Tip: To protect the A-pillar against scratches, mask the surface all around with adhesive tape.



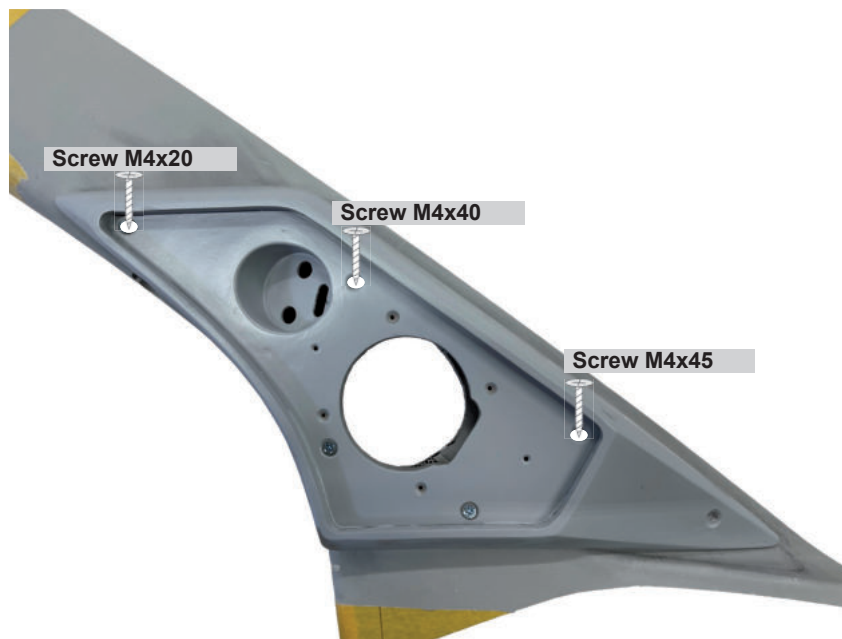
6.2 Drill holes (5mm Ø) on the back of the A-pillar for the screw anchored in the molded part. The drilling points are located on the reference point of the factory tweeter mounting.



6.3 Place the enclosed template on the A-pillar, mark the speaker openings and cut them out with a jigsaw. **Caution:** do not cut away too much



6.4 Align the module on the A-pillar and mount it with the supplied screws as shown in the illustration. Insert the screws through the holes previously drilled in the A-pillar -->> Screw the screws with washer and self-locking nut and tighten carefully! (Illustration for better representation without speakers)



6.5 Use the remaining screws to fix the molded part to the A-pillar.



6.6. connect midrange and tweeter to crossover (red or marked cable ⇒).

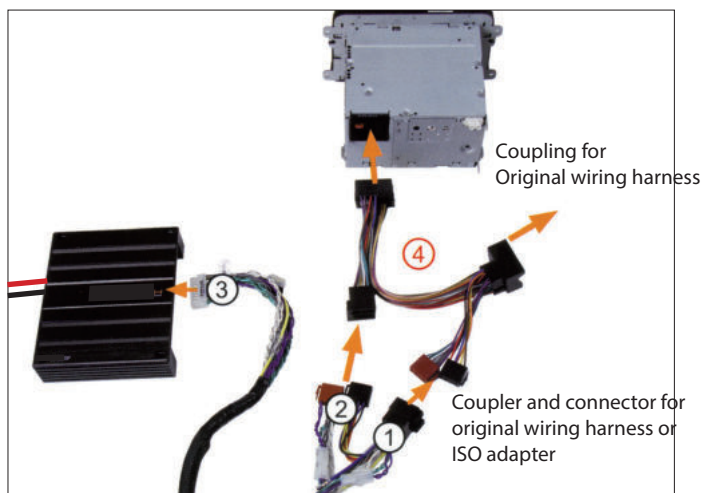


6.7 Reassemble the A-pillar trim and Attach cover panel

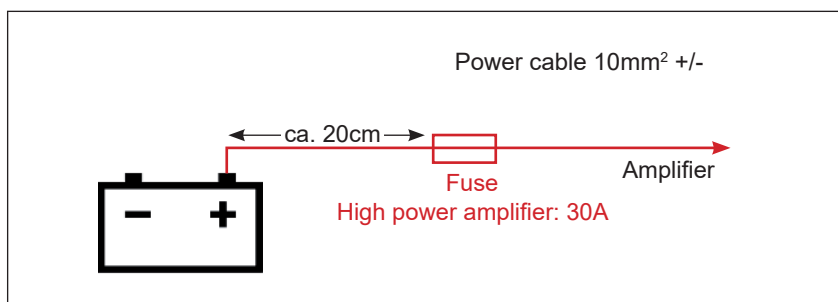
7. amplifier connection

Ideally, the amplifier can be mounted to the subwoofer in the passenger seat console, see step 8.
 (However, the installation location may vary, depending on the vehicle equipment and available space).

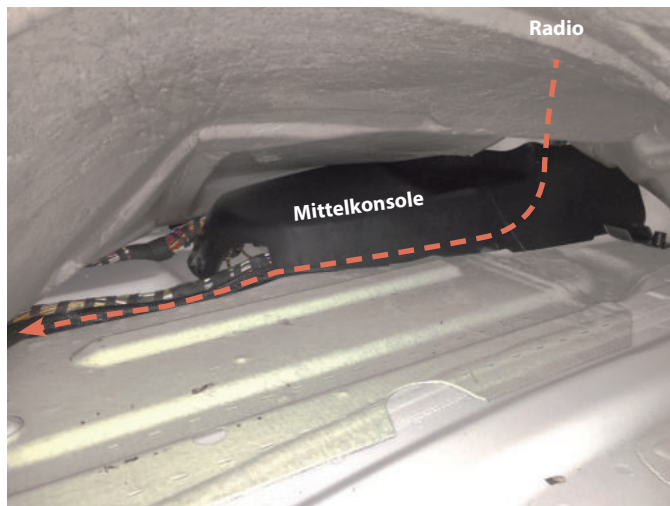
Connection to the car radio



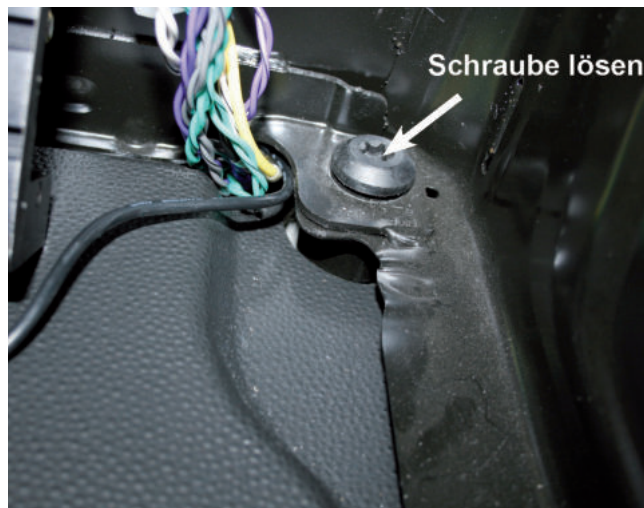
- ISO coupling - here is the wiring harness of the original radio or an ISO adapter is plugged in.
- ISO plug - these are plugged into the original radio or into the ISO-adapter.
- This 20-pin connector is plugged into the amplifier.
- **Optional:** ISO adapter - if the ISO plugs of the supplied wiring harness do not fit the original radio, a vehicle-specific ISO adapter must be used.
- The power connection is made directly to the battery using a 10mm² cable - the positive wire must be fused just before the battery (30A).



7.1 Dismantle the passenger seat.



7.2. ISO cable from the radio, under the carpet and under the center console cover to the passenger seat console. lead.



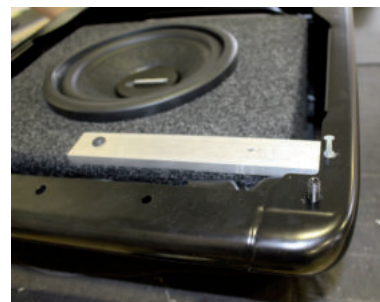
7.3 Loosen the screw on the seat console and feed the ISO cable underneath.



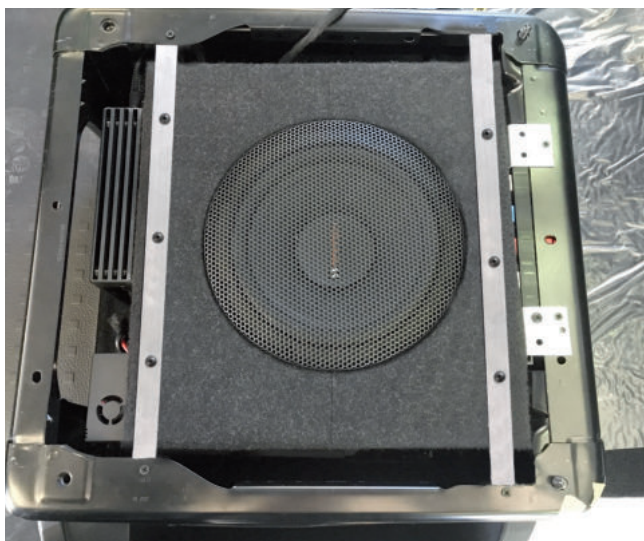
Attach mounting bracket and secure with 4.8 x 22 to secure.



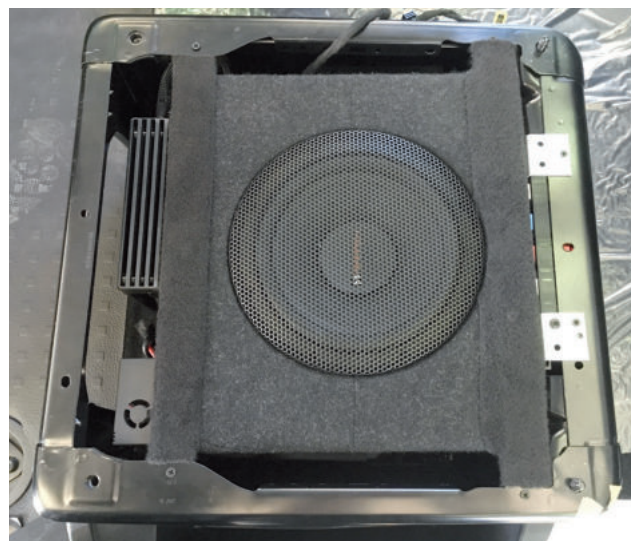
Pre-drill the screw holes for fastening to the Pre-drill the seat bracket (slightly countersink the drill hole).




Fasten the mounting bracket with the Fasten the screws.




7.4 Mount the amplifier on the subwoofer and connect it with the „plug & play“ cable, insert it into the seat console and screw it to the seat with strips on the frame of the seat console.



7.5. subwoofer ready mounted and strips covered with covered with felt fabric.

VW Bus T6 Sound package 1 cab system 65400-2	Assembly instruction Stand: 02.11.2023	
	Art. Nr. 69400-82-2	
<p>Notes:</p>		

VW Bus T6 Sound package 1 cab system 65400-2	Assembly instruction Stand: 02.11.2023	
	Art. Nr. 69400-82-2	
<p>Notes:</p>		

VW Bus T6

Sound package 1 cab system 65400-2

Assembly instruction

Stand: 02.11.2023

Art. Nr. 69400-82-2**JEHNERT**
Sound Design
A U T O M O T I V E**Notes:**

Our team in Pliezhausen will be happy to provide you with advice and assistance at any time:

JEHNERT Sound Design

»Development and production of car audio systems«

Inh. Hans-Peter Jehnert
Im Michelreis 14
72124 Pliezhausen
Tel.: 07127-93457-0
Fax: 07127-93457-10
sounddesign@jehnert.de
www.jehnert.de

