

**3-way cab system
 Subwoofer for mounting under
 T6 passenger seat and amplifier**



Packing list:

- 2x XE 26 - neodymium tweeter ø 26mm
- 2x XF 70 - high-end midrange driver, ø 70mm
- 1x midrange module (right + left) VW T6, cover: imitation leather
- 2x XM 165 - low-midrange driver „Power-Woofer“ ø 165mm
- 2x adapter ring for XM 165
- 2x 3-way crossover VW T6 - part no. 65400
- 1x digital 5-channel amplifier High Power incl. 2,2m connection cable
- 1x Subwoofer 17022 incl. 1m connection cable
- 2x Rainstop mat 25x25cm
- 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 woofer mounting kit:
 - 12x countersunk screw M4 x 16 (hexagon)
 - 12x polystop nut M4
 - 24x washer ø 12mm
 - 8x pan-head screw 3,9x16

- 1x mid-tweeter mounting kit:
 - 2x Spax screw 3.5 x 20
 - 4x Spax screw 3.5 x 30
 - 2x Spax screw 4x30
 - 2x screw lens head 3,5 x 19
 - 8x sheet metal nut 3.9
 - 2x screw M 4 x 30
 - 4x washer ø 12mm
 - 4x 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.

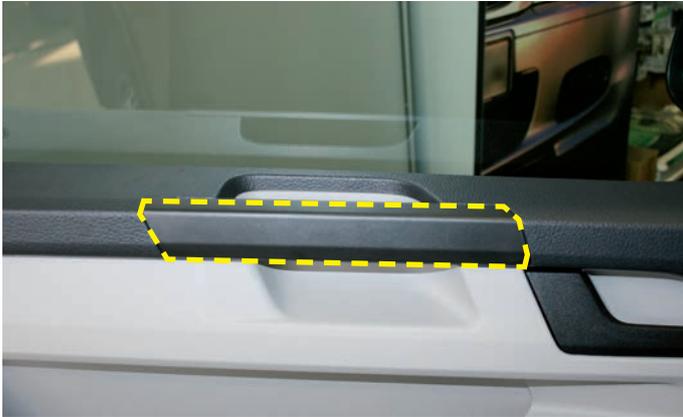
Warranty:

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 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.

Installation instructions: Sound system VW Bus T6

1. disassembly of the door panels

1.1. lower the window pane completely.



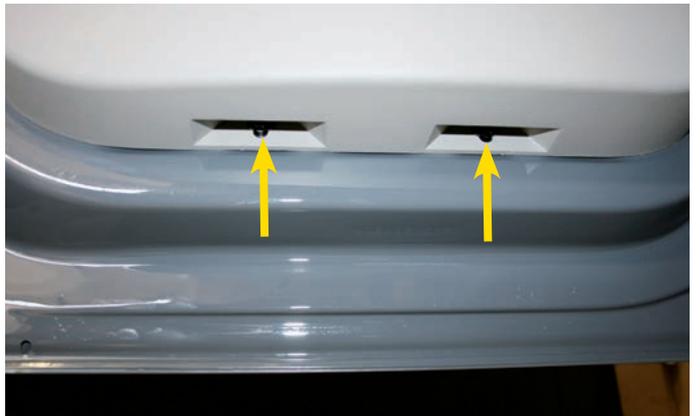
1.2 Unclip the door handle



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 the door release bowden cable - pull the cable sheath on the opening lever 1cm - then unhook it.

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



1.9. disconnect original loudspeaker connection and dismantle 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).

Installation instructions: Sound system VW Bus T6

2. crossover mounting

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



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



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

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

2.4. connect speaker cables for tweeter, midrange and woofer 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 (e.g. with cable ties). Connect crossover input.



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.

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

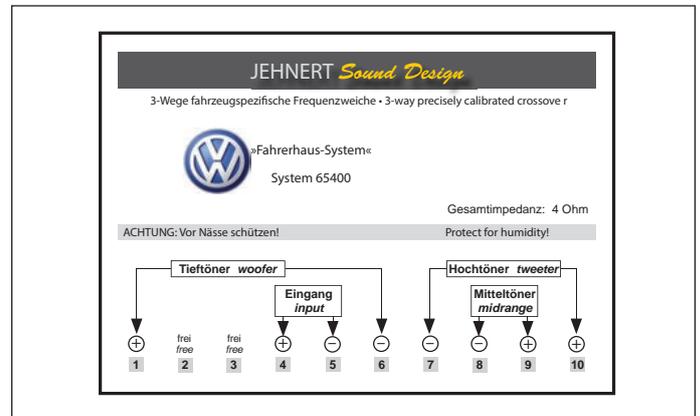
Installation instructions: Sound system VW Bus T6

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.



3.2 Connecting the woofer to the crossover network

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 wiring harnesses with insulating tape or similar.

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



3.3. mount woofer with 4x 3.5x16 (lens head) screws.

Installation instructions: Sound system VW Bus T6

4. insulation of the vehicle doors and door panels.

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

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

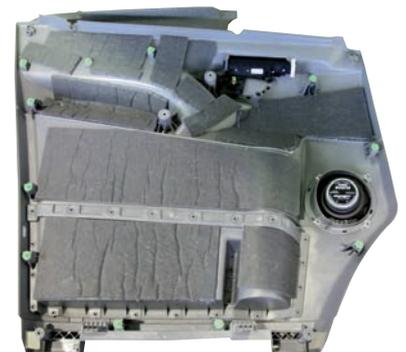
IMPORTANT: Make sure to leave the cut-outs for the door airbag and speakers free!



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



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

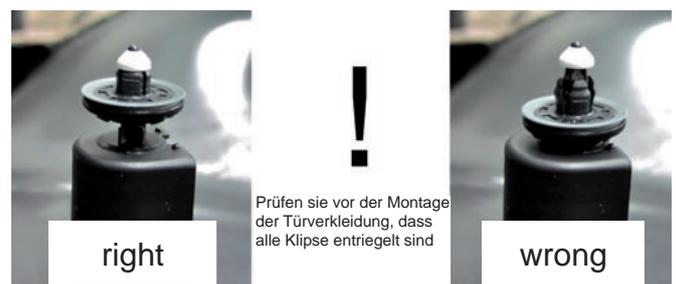


Example illustration

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 panel in reverse order.
 Ensure that the clips are unlocked, see Fig.



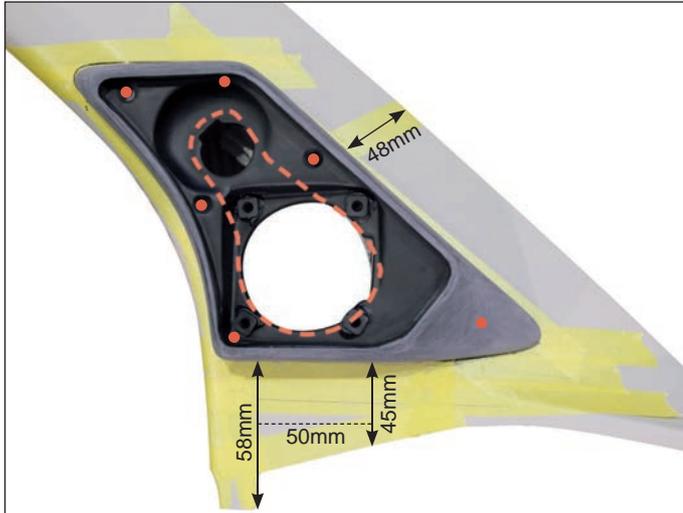
Final check after door panel assembly:
 Check all functions of controls such as seat adjustment, glove box opening, window regulator, etc.

Installation instructions: Sound system VW Bus T6

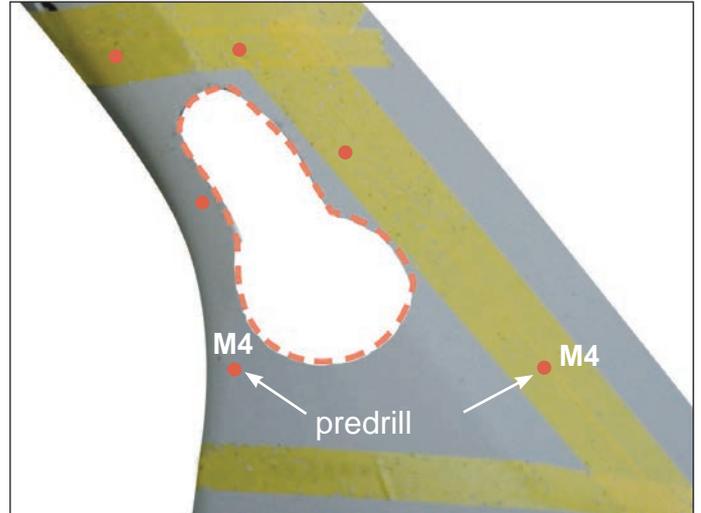
6. mounting mid-high module on the A-pillar

6.1 Dismantle the A-pillar.

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



6.2. align module without midrange speaker on the A-pillar, as indicated in Fig.
 Mark speaker openings and screw positions.



6.3 Cut out the speaker openings with a jigsaw.
Attention: do not cut away too much
 -> Markings for screws must remain!!!
 Pre-drill holes for M4 screws with 4mm drill (see 6.4)



6.4 Mount the module on the A-pillar using the screws supplied, according to the illustration. -->> Tighten the screws carefully!
 Secure Spax screws and pan head screw with sheet metal nuts.
 secure with sheet metal nuts.



6.5. screws on the back of the A-pillar trim.
 additionally secure with hot glue.

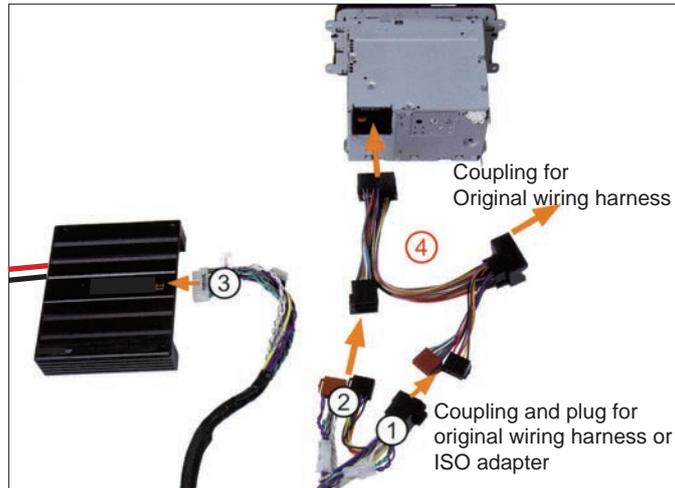
6.6 Connect the midrange and tweeter to the crossover and reinstall the A-pillar cover.

Installation instructions: Sound system VW Bus T6

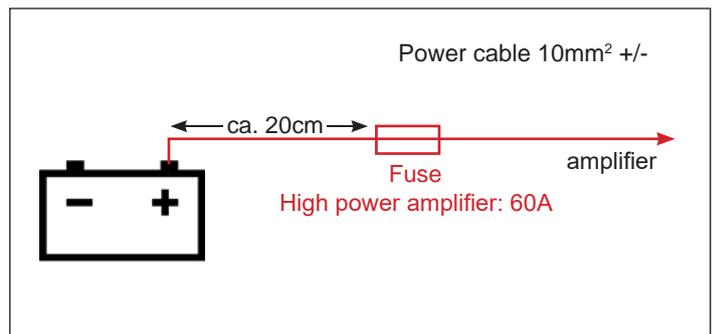
7. amplifier connection

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 plugs - 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 connectors 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 (60A).

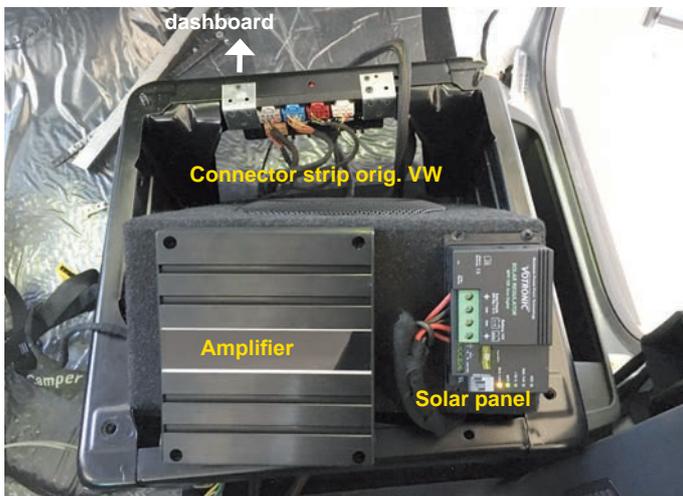


Installation instructions: Sound system VW Bus T6

8. amplifier and subwoofer mounting



Optimal mounting location for subwoofer and amplifier:
Under the passenger seat (depending on vehicle equipment).



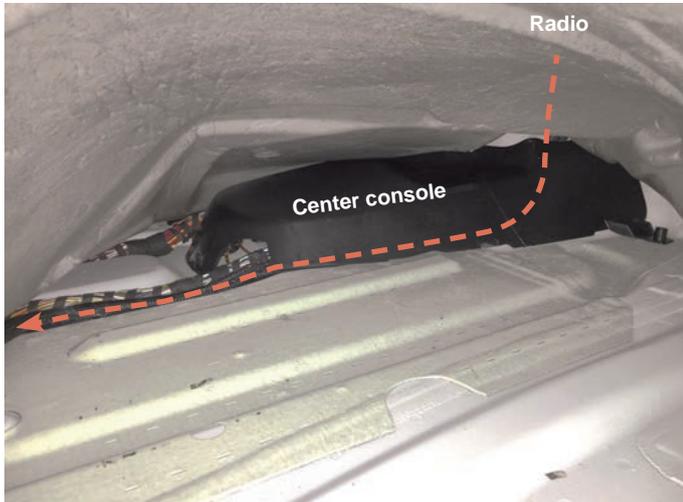
Example of subwoofer and amplifier mounting with offset modules under the passenger seat. The modules were mounted to the subwoofer and the seat frame.



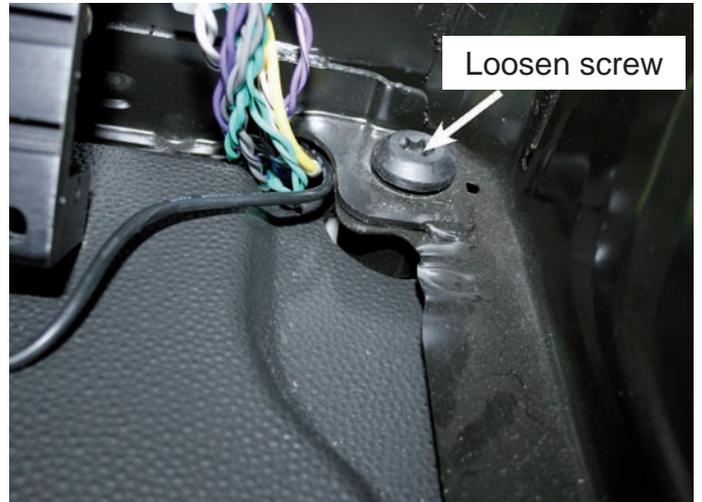
Subwoofer ready mounted in the passenger seat console

Installation instructions: Sound system VW Bus T6

7.1 Remove 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.



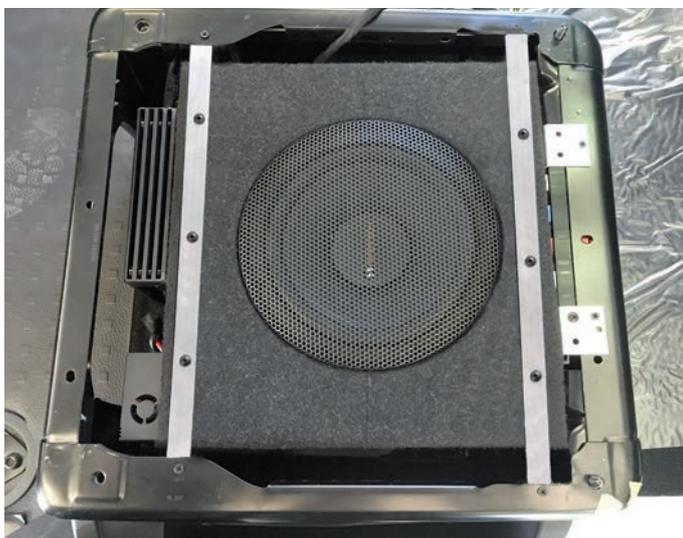
Attach mounting bracket and secure with 4.8 x 22 to secure.



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 screws fasten.



7.4 Mount the amplifier on the subwoofer and connect it with the „plug & play“ cable. Insert the cable 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 felt fabric.