

Installation Instructions Product-Ident: 75183









doorboards with soundsystem, Audi A6 4F, sedan / Avant, from 2004

Technical Details:

Car Features:	4-doors, electrical window controls
Model/Year:	4F (07.2004)
Setup-Advice:	To reach the best performance, the setup of the radio (Bass, Loudness etc.) should be null or neutral.
recommended amplifier power:	from 2x 150 - 300 Watt / 4 Ohm



Parts list:

1x	Doorboards (right+left) Audi A6 4F sedan/avant - models from 2004, covered
1x	grills (right+left) Audi A6 4F sedan/avant - models from 2004 , cover: acoustic fabric
2x	XE 26 - Neodymium-Tweeter ø 26mm (1") incl. mounting device, Hex nut M4, washer ø 12mm
2x	XM 110 - High-End-midrange driver, ø 100mm (4")
8x	XM 165 - Low midrange driver, power woofer ø 165mm (6,5")
1x	serial wire set for woofers (right + left)
1x	3-way frequency crossover (right+left) Audi A6 4F /sedan/avant - part-no. 75183
1x	Hardware bag, Audi A6 4F - part-no. 75183/71183
2x	 flat head srew M4 x 20
2x	 flat head srew M4 x 25
18x	 flat head srew M4 x 30
2x	 flat head srew M4 x 50
2x	 flat head srew M4 x 70
34x	 hex nut M4
4x	 Velcro strip à 2,5 cm (reserve)
34x	 washer 20mm

Garantee:

We grant a manufacturers guarantee of 2 years starting from the date of purchase of the doorboard or sound system from the dealer. Within this guarantee period to our choice we either repair or replace free of charge all defects due to material or workmanship. Exempt from this guarantee are damages due to improper use, wear and tear or damages which have to be led back on wear or interventions by third parties. The guarantee does not cover subsequent damages or such defects that only insignificantly impair the value or the usability of the doorboard/sound system. The guarantee does not cover damages due to external influences. Doorboards with additional or wrong assembly drill holes cannot be returned. These are damages to the doorboard which cannot be repaired again.

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1 Disassembly of the door card

1.1 Roll down window completely.



1.2 Carefully pry out the tweeter cap **(A)** carefully and unscrew Torx screw underneath.

1.3 Unscrew the Torx screws under the door handle **(B)**.

1.4 Unscrew Torx screw **(C)**.

1.5 Carefully pry out the trim strip **(D)** horizontally and pull it away:
 driver's side - to the right
 co-driver's side to the left.
 Remove the 2 torx screws underneath.



1.6 Lift the door card out of the sealing above and simultaneously move it horizontally and forward away from the inner door metal.

1.7 Remove the Bowden pull wire of the door latch lever.

1.8 Unplug switch for electric window control.

1.9 Disconnect the original loudspeaker plugs and dismount the original speakers.

1.10 Dismount the original woofer and adapter frame (both parts will not be needed anymore).

Remark: The original speaker connection is used for the adaptation of the crossover »Input« ---> see wiring diagram of the crossover circuit.



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2 Handling of door card: Doorboard alignment

2.1 Place the door card on a plane surface.

2.2 Dismount the loudspeakers attached to the doorboard for transport protection --> retain the screws for later assembly.

2.3 Place the doorboard without speakers on the door card and align it:

 **Only precise alignment of the doorboards with the door card warrants optimal fit!**



Reference points for alignment:

Reference line 1

The upper edge of the doorboard is flush with the armrest and the door handle.

Reference point 2:

Doorboard fits exactly the recessed part of the door handle.


Reference point 3:

"The vault" at the end of the doorboard fits exactly the "vault" of the door card.

Control reference line:

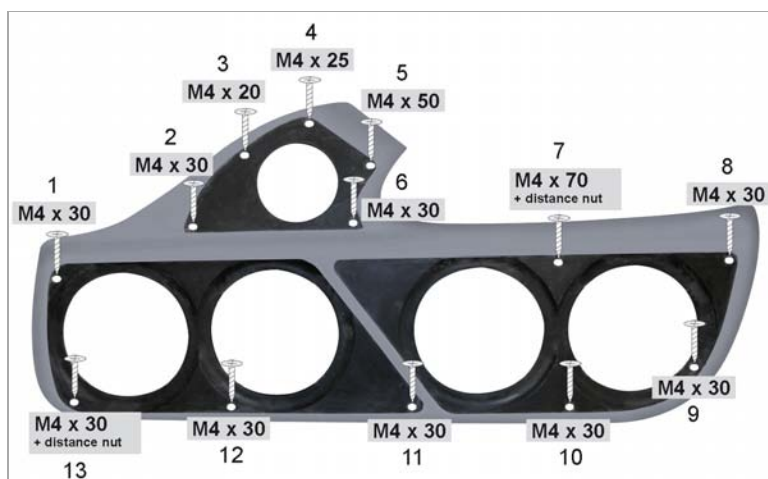
The lower edge of the doorboard is parallel with the lower edge of the door card.

3 Marking fastening points

 Use the doorboard as template in order to mark fastening points and cut-outs and **precisely align to the fixing points of the door card!**

3.1 Marking of the pre-drilled fastening points 1-13:

Use a thin awl to set the marks on the door card.



Example

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4 Handling of door card cut-outs

The cut out behind the speakers are providing the required full volume of the car door:

4.1 Mark the midrange cut-out acc. to figure. For a plane alignment of the doorboards please consider the overlapping midrange position on the backside of the doorboard. Mark the cut-out accordingly.

4.2 Mark the cut outs for the woofers on the door card. Enlarge them approx. 1cm (= approx. outer diameter of the woofers).

⚠ IMPORTANT! Check all cut-outs marked:

🔧 The fastenings of the doorboard must have to be screwed with the door card!

🔧 The fastenings of the door card must not be removed!

4.3 For screw 4 + 5 the armrest has to be removed:

Take away the doorboard again and remove the 10 silver Torx screws on the backside of the door card (see fig.) and the arm rest.



4.4 Cut out the positions marked on the door card. Use a compass saw.

⚠ PLEASE OBSERVE!!! Take care of the wiring harness in the door!

4.5 Drill the bore holes for the **M4-screws** according to the marks set before
 - use a **4mm drill and enlarge to 7-8mm**



Example



Example



Example

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5 Tweeter installation door card - original mount of the car door with mounting device

5.1 Dismount the original tweeter. Unplug the cable connection (no more need of the original tweeter and connecting cable).

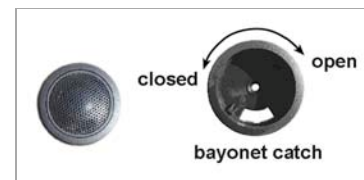
5.2 Remove the tweeter out of the catch:
---> bayonet catch: turn to the right and pull out of the holding device - by means of the screw.

There is no need any more of the mounting device.

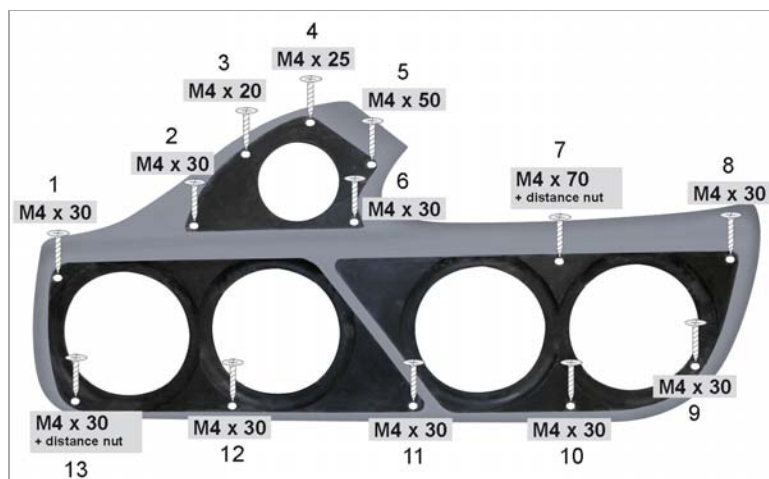
5.3 Position the tweeter on the backside of the door card and adhere all around with hot melt adhesive or silicone.

5.4 Adapt the JEHNERT-tweeter cable with the speaker cable (1,5 - 4qmm), length of cable up to where the crossover is installed in the doorboard.

 **In order to avoid vibration noise insulate all cables with insulating tape e.g.**



6 Fastening doorboard




6.1 Screw in the M4-screws supplied with. Affix the doorboard to the door card. Screw all M4-screws only hand-tight.


IMPORTANT! In order to prevent distortion of the door card use spacer nuts to install the fastening point 7 + 13 (see fig.)

Secure all screws on the backside of the door card with washers and nuts.



 **TIP:** Treat the screw thread with a liquid for screw-in type fuse. (Speaker vibrations may loosen the screws after some time).

6.2 Check again for precise fit and tighten the screws.

 **All cutting edges of the doorboard must fit to the door card snugly all around without gap!**

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7 Insulation of the back side of the door card

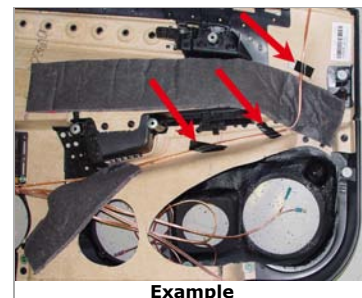
🔧 In order to avoid vibration noise insulate all cables with insulation tape e.g.

7.1 Insulate the backside of the door card e.g. with self-adhesive vibration suppressing insulation fleece
 – see attached installation recommendation.

⚠ ATTENTION / danger ! No insulation behind the side-airbags!

🔧 IMPORTANT:

No insulation material behind loudspeaker, door latch lever and fastening points of the door card!



Example

8 Adaptation amplifier - crossover circuit / Insulation of the car doors

8.1 **🔧 Insulation of the car doors** - Important tips against vibration-noise (see attached installation recommendation)

8.2 Adaptation amplifier - crossover circuit:

Lead 1x speaker cable (1,5 - 4 qmm) from amplifier to the crossover circuit:
 mount of crossover circuit: car door / behind the doorboard

🔧 In order to avoid vibration noise secure all cables with insulating tape e.g.

8.3 For the bass performance the speakers are using the volume of the car door:
 Cut in the foam mat in the car door approx. 2-3 cm (see fig.).



9 Installation of the door card onto the car doors

9.1 **🔧 Check up length of the screws and bolts:**

In order to prevent damages of mechanic parts of the car doors, please check once again the length of all bolts and screws on the back side of the door card! No touch with any mechanic parts of the car doors!
 (please shorten if necessary)

9.2 Reinstall the arm rest (10x Torx).

9.3 Put the door card into the upper sealing of the car door.

9.4 Fit the door card in contrary order of succession considering the clips.

🔧 Final inspection after installation of the door card:

Please check all functions of the operating elements such as seat adjustment, opening of the glove box, window winder etc.

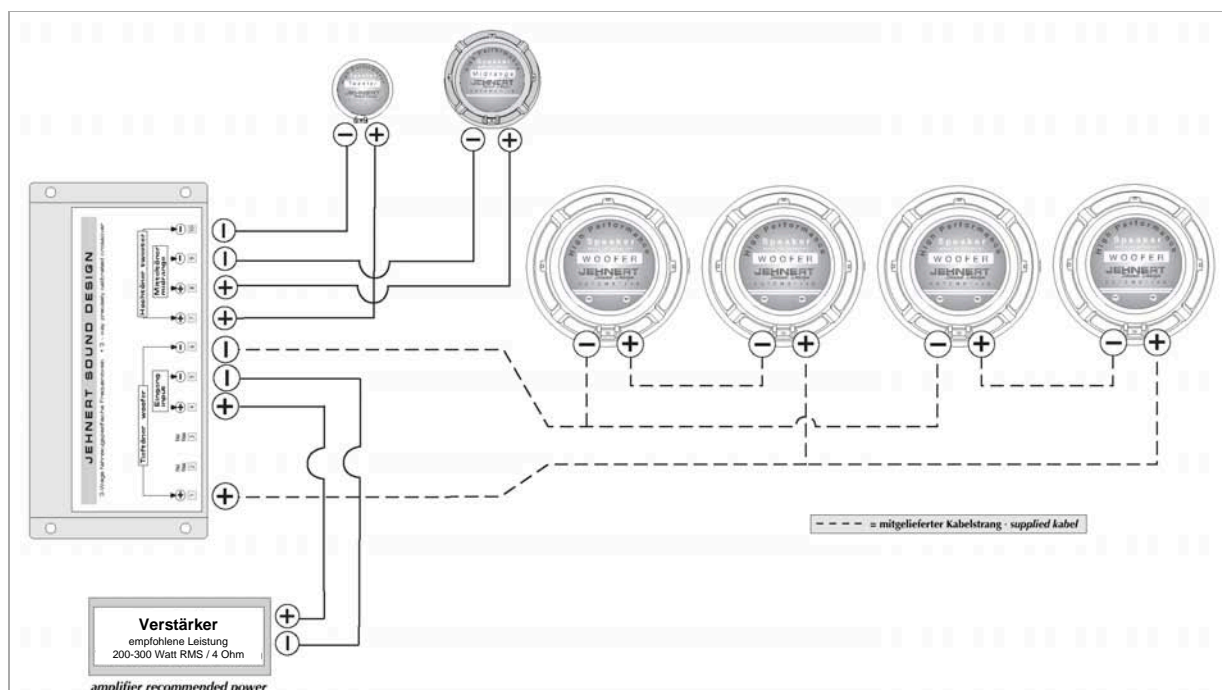


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Sound Design
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10 Installation of crossover circuit / speaker connection

10.1 Precable crossovers - see wiring diagram.



10.2 Install crossover – covered with foamed material* - in the hollow space between doorboard and door card (see fig.) and ensure precise fit.
Position: Between the 2nd and 3rd woofer behind the separating bar of the grills.

***Important:**
Protect the sheet bar against humidity and observe that the sheet bar does not touch any metal parts – danger of short circuit!

10.3 Connect all speakers to the crossover circuit according to the wiring diagram.

10.4 Insert woofer and midrange.

10.5 Notice: You should check the polarity of all woofers after having connected them to the crossover circuit with a 9 volt battery (input cable on the side of the amplifier):

pole of the crossover circuit input + to + of a 9 Volt battery
pole of the crossover circuit input - to - of a 9 Volt battery

All woofers must move uniformly!

Wrong polarity of a woofer can totally equalize the bass sound!



11 Installation of the doorboard grills

11.1 Carefully press grill with Velcro fasteners onto the doorboards:

IMPORTANT: The Velcro fasteners stick very strongly!
Therefore only press the grills to the doorboard at the end of the installation of the doorboard and the soundsystem!

11.2 Further tips see attached installation recommendation.