

Production of  
Car-Audio Systems

Im Michelreis 14  
72124 Pliezhausen

Tel. +49 71 72 / 934 57-0

Fax +49 71 27 / 9 34 57-10

e-mail: [sounddesign@jehnert.de](mailto:sounddesign@jehnert.de)

[www.jehnert.de](http://www.jehnert.de)

## *Installation instructions*



Daimler Chrysler W 124  
convertible / coupé

# Contents

	page
Packing list .....	2
1. Disassembly of the door lining .....	3
2. Disassembly of the door lining and the original tray.....	4
3. Handling of door lining .....	5
4. Insulation of the door lining / car doors .....	6
5. Installation crossover/tweeter/midrange / Loudspeaker cables ..	7
6. Installation of the door-lining onto the car doors .....	8
7. Panel installation onto the car doors .....	9
8. Speaker connection .....	10
Loudspeaker wiring diagram .....	11
9. Installation of the speaker-grills .....	12
Technical information .....	13
Service / fault diagnoses .....	14
Guarantee .....	15

**Please follow the installation instructions  
“step by step”  
and check the package contents**

**Particularly important notes contain the following remarks:**



# Packing list 75172

## Packing unit




door panel, covered (right / left)	2	<input type="checkbox"/>
Speaker grill, covered (right / left)	2	<input type="checkbox"/>
Tweeter 26mm	2	<input type="checkbox"/>
Midrange 100 mm (each mounted adapter plate with 4 Sheet metal-screws)	2	<input type="checkbox"/>
adapter-frame for midrange and tweeter	2	<input type="checkbox"/>
Woofer 165 mm (each mounted on the panel with 2 Sheet metal-screws)	8	<input type="checkbox"/>
Crossover (right / left)	2	<input type="checkbox"/>
standart cables for woofer (right / left)	2	<input type="checkbox"/>

## Check list

### Hardware bag:

M4 x 30	4	<input type="checkbox"/>
M4 x 50	2	<input type="checkbox"/>
Spax-screws 5,0 x 70	2	<input type="checkbox"/>
Spax-screws 5,0 x 80	6	<input type="checkbox"/>
Spax-screws 5,0 x 90	2	<input type="checkbox"/>
sheet metal screw 3,9 x 9,5	2	<input type="checkbox"/>
sheet metal screw 3,9 x 16	6	<input type="checkbox"/>
Velcro strip à 2,5 cm (reserve)	4	<input type="checkbox"/>

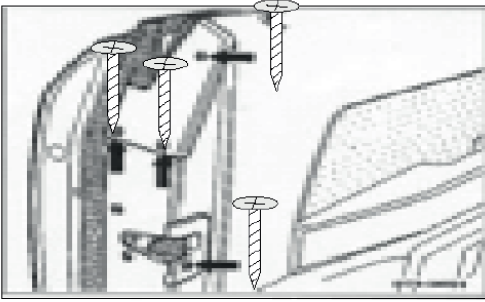
### Preassembled hardware:

 Velcro fastener plus strips	12	<input type="checkbox"/>
 Sheet metal screws, black 3,9x13(f. subwoofer)	16	<input type="checkbox"/>
 Sheet metal screws, black 3,5 x 13 (8xMR+12xVelcro.)	20	<input type="checkbox"/>

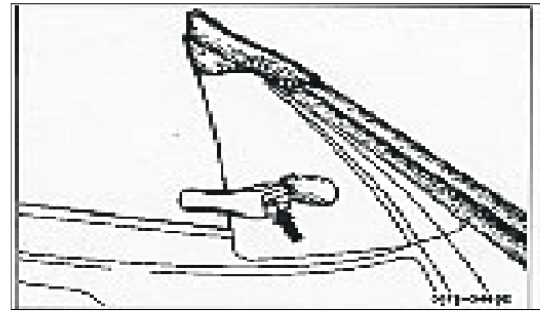
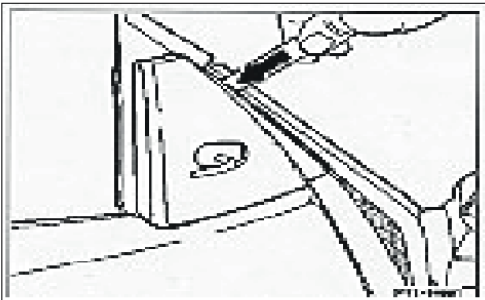
The product was carefully packed and checked for its completeness. If you find anything missing, damaged or defective, please notice our guarantee services on the back of these assembly instructions.

# 1. Disassembly of the door lining

1. roll down window completely

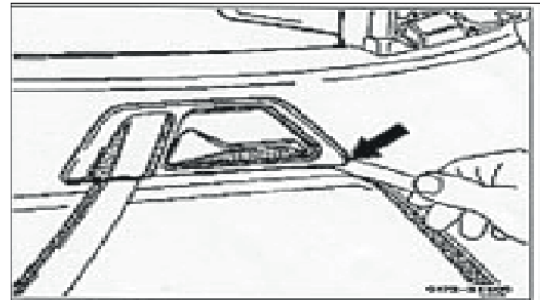
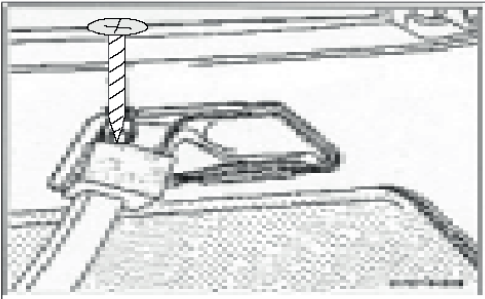


2. door lock:  
remove grill and trim ring on  
the door lock



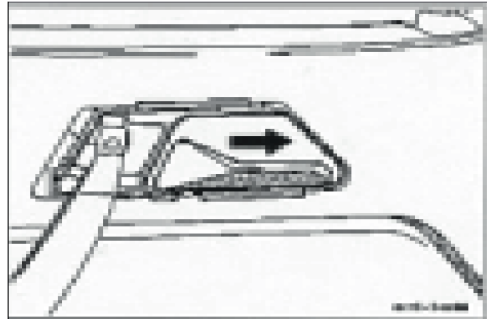
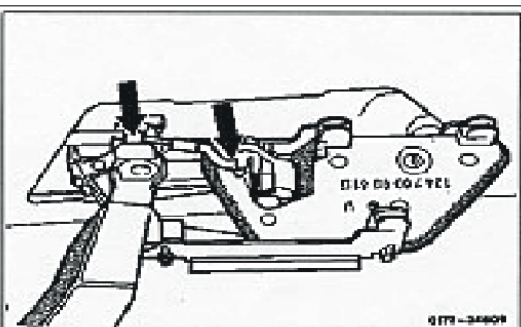
3. mirror triangle: pull away the plastic  
sleeve and remove the handle for the  
mirror adjustment

4. unclip the panel on the door frame  
and pull it away upward



5. pull away the panel on the inner  
door actuating device

6. partly remove the plastic foam  
inlet and unscrew the screw  
underneath

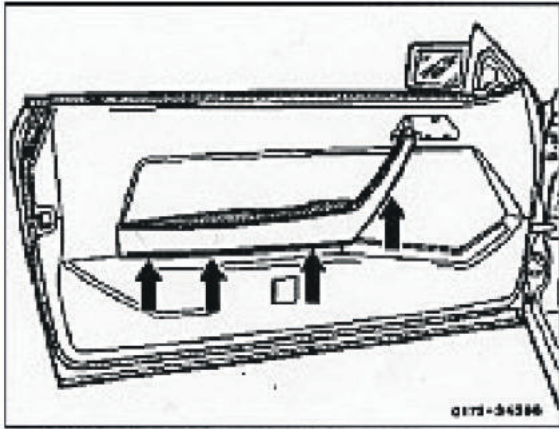


7. move the inner door handle  
forward and lift it out of the  
inner door metal

8. unhook the actuating device on the  
door handle and the housing, remove  
the housing

**continuation on page 4:**

## 2. Disassembly of the door lining and the original tray



continuation from page 3:

1.10. pull away the door lining and remove it



**please observe:**

door lining is plugged , not clipped !!  
Damages on the protection foil of the inner door metal have to be repaired before reinstallation of the door lining.

2.1. place the door lining on a plane surface, backside up.

2.2. move the plastic holding devices of the tray (**A + B**) on the lower edge forward away. Simultaneously lift the tray out of the clamps (**1-5**) and remove it.

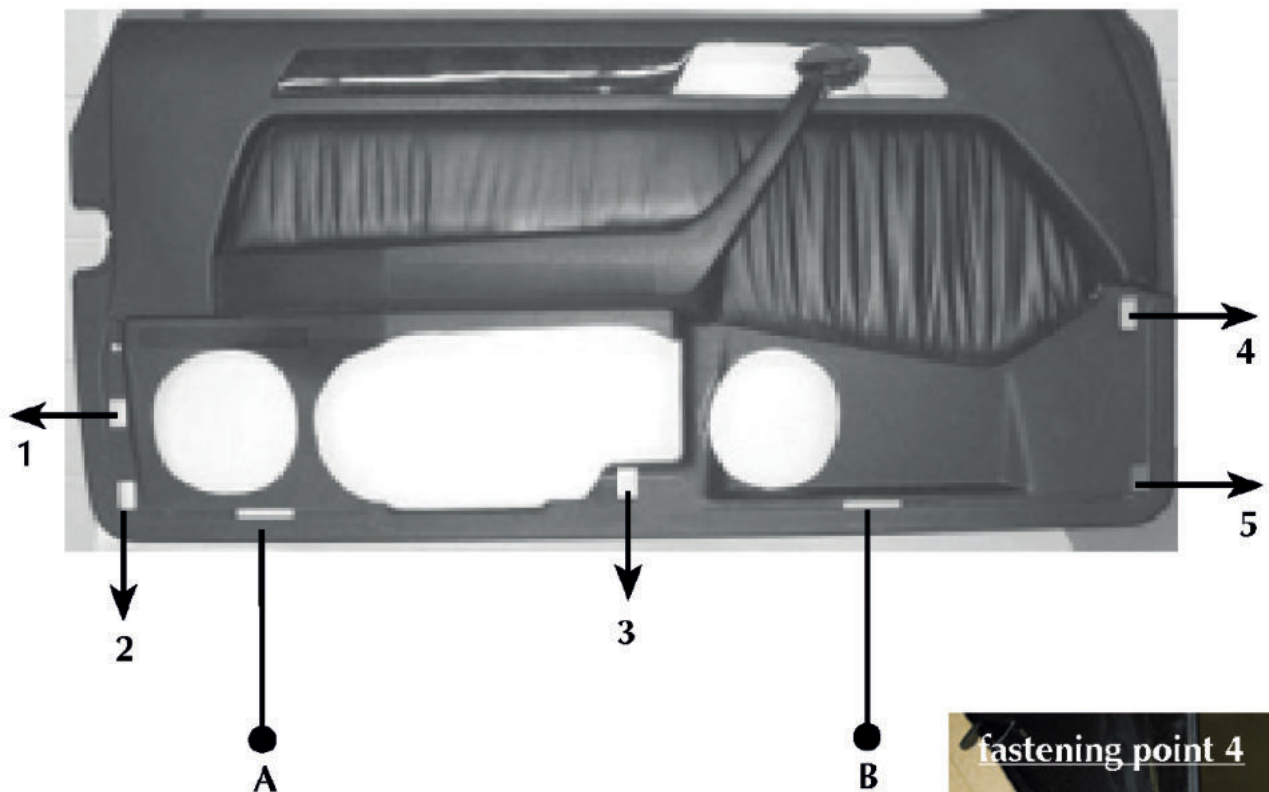
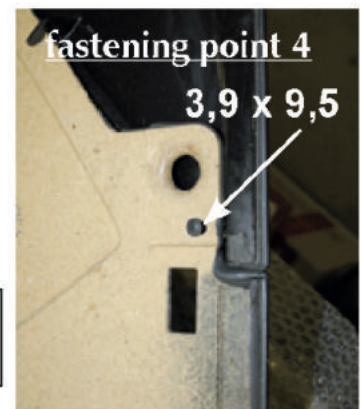


fig.: door lining with speaker cut-outs

**Fastening point 4 - Important:** after removing screw 3,9 x 9,5, repeat mounting from the rear (see fig. right)



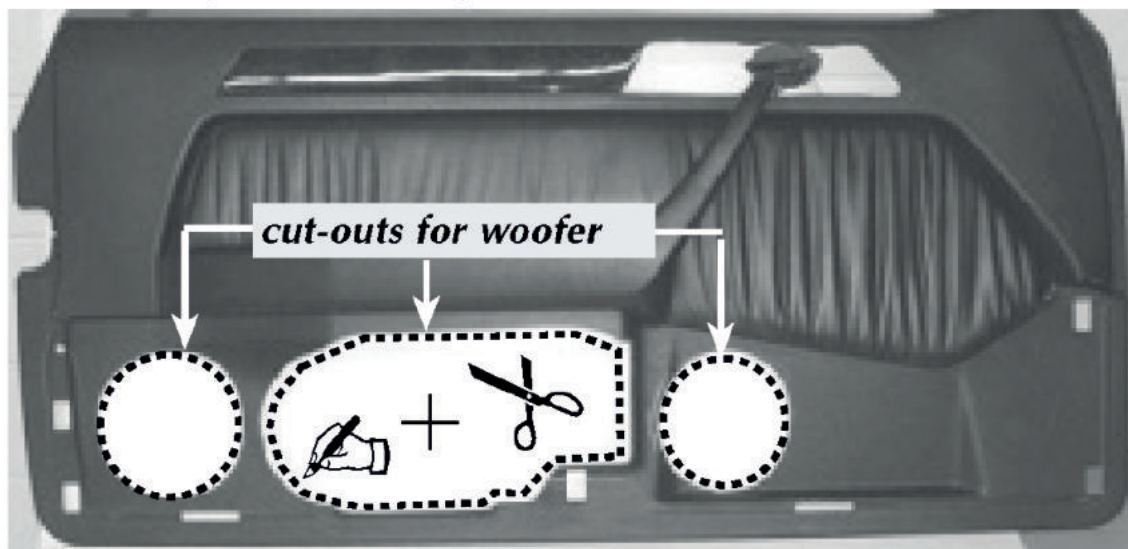


### 3. Handling of door lining

- 3.1. Dismount the loudspeakers attached to the panel for transport protection.  
Retain the screws for later assembly.

Use the precisely aligned panel as template in order to mark the speaker's cut-outs - see page 8 -

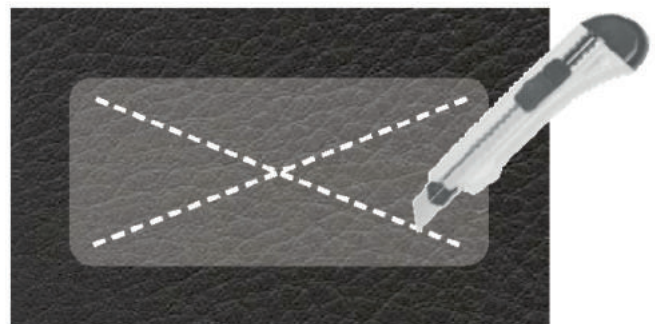
- 3.2. draw the speakers' cut-outs onto the door-lining.  
size of speaker cut outs and cut outs of the panel are identical
- 3.3. remove the panel again. cut out holes for loudspeakers along the marking with a compass saw (see fig.)



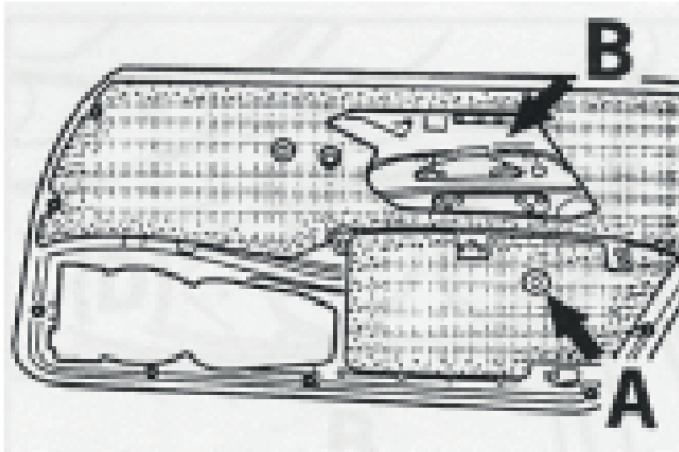
### Remark for vehicles with entrance light

The cut-out for the entrance light is coated with the doorboard cover material (see bottom edge of the doorboard).

- cut-out crosswise the cover of the doorboard on the open part for the entrance light and turn the edges inwards



## 4. insulation of the door lining



**attention – danger !!**  
**No insulation behind the side-airbags (fig. B)**



**Important:**  
**No insulation material behind**  
- loudspeaker  
- door latch lever  
- (fig. A): drill a hole for the installation clip

fig.: backside of the door lining – insulation with our article no.: 27000



### **Important tip:**

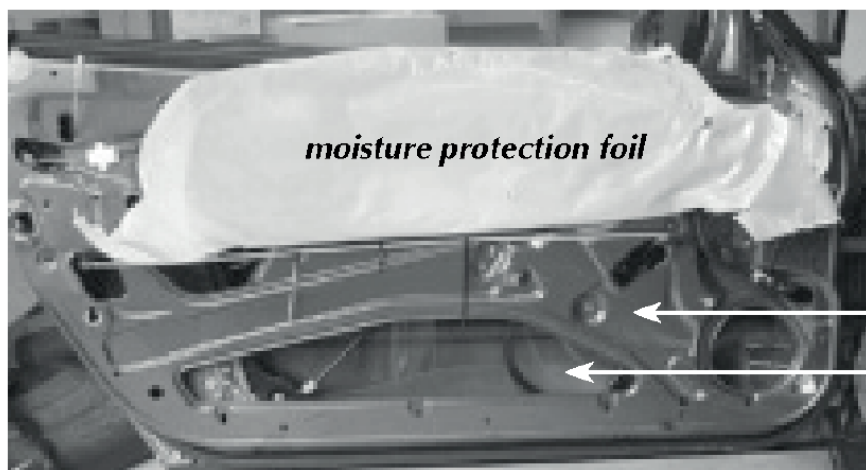
the use of 4x165mm mid-woofer /side may cause vibrations which lead to annoying rattle noises in the car door

### **some helpful tips:**

- use our self-adhesive insulation fleece (art.no.: 27000) or a foam material for the backside of the door lining (see fig. above) or
- Stabilize the door card backside with aluminum butyl.

### **important: keep the cut-outs for the door-airbags and speakers open**

- affix the backside of the inner door metall with self-adhesive asphalt mats / alu-butyl (see fig. below).
- by knocking on the car door, vibrations caused by mechanic parts (e.g. Bowden pull wire etc.) and wiring harness may be found out. Cover these parts with foamed material, felt or something like that
- cut off overlapping cable tie (rattle noise)
- adhere felt or foamed material under the original wiring harness



If possible, stabilize both sides with aluminum butyl!

**front side of inner door metal**

**\* door metal outside = back side of the inner door metal**

## 5. Installation midrange/tweeter / loudspeaker cables / Installation crossover


### 5.1. Installation midrange/tweeter on the dashboard

- see enclosure - 5.3.1. - 5.3.7


### 5.2. loudspeaker cables:

5.2.1. lead 1 x speaker cable (1,5 - 4 mm<sup>2</sup>) from amplifier to crossover

5.2.2. car doors: remove the moisture protection foil

 **Important:** to prevent vibration noise tighten all screw on the inner door metal

5.2.3. lead 1x speaker cable (1,5 - 4 mm<sup>2</sup>) from crossover into the car doors.  
(see circuit diagram on page 11).

 Please observe: the speaker cables must not be squeezed by the window control etc.

### 5.3. Installation crossover

5.3.1. wire the crossover – see wiring diagram on page no. 11

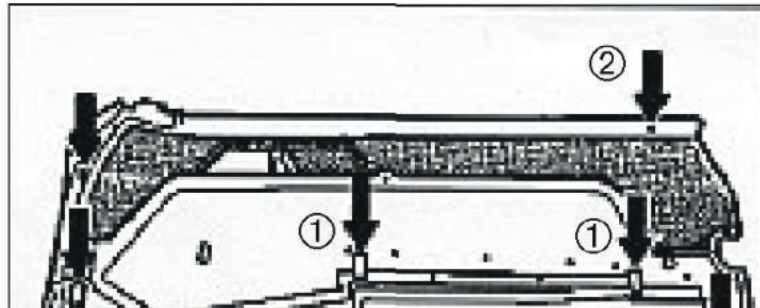
5.3.2. mount of crossover circuit - recommandation: under the support plate behind the footwell trim of the driver's side (see fig.)



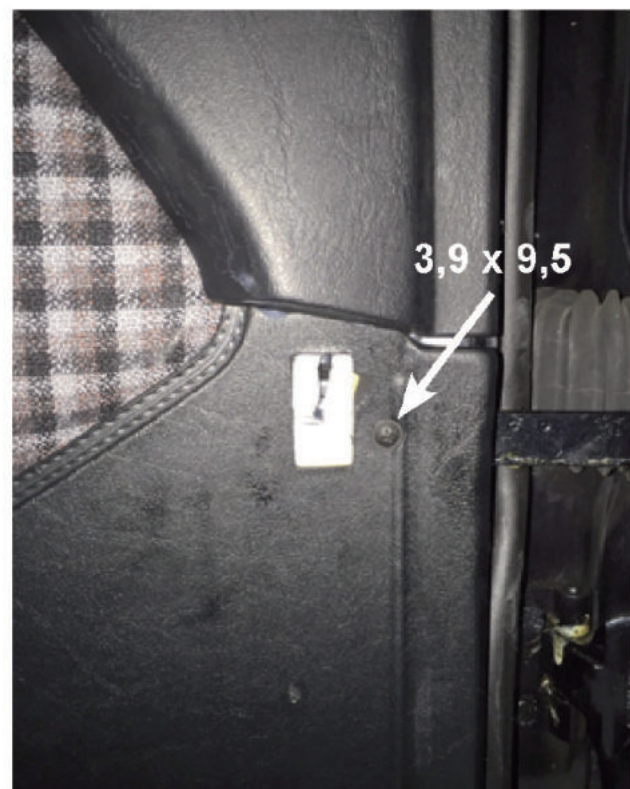


## 6. installation of the door-lining onto the car doors

- 6.1. Insert the prepared doorlining from the top in the plug pins ① on the window shaft and lead the door lock ② into the doorlining

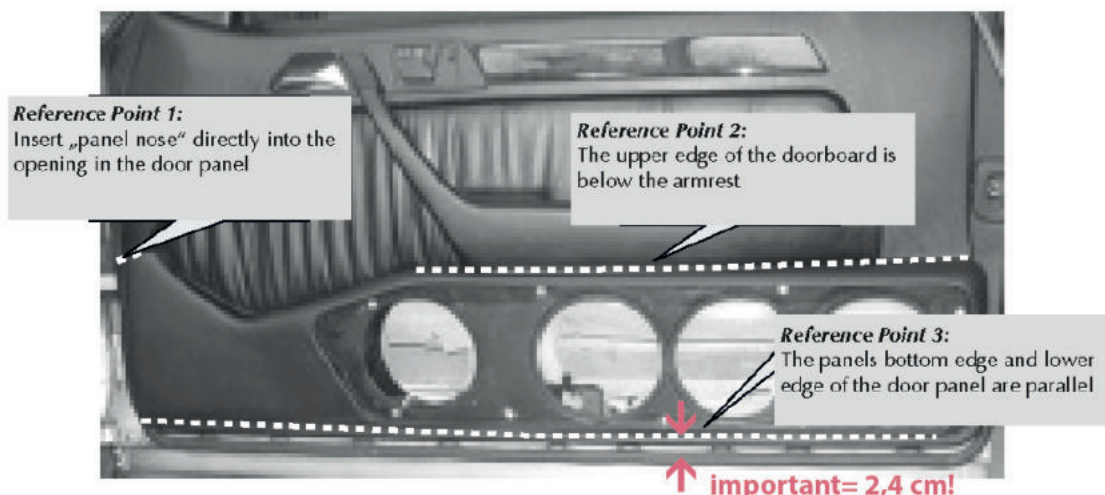


- 6.2. Hang in the activating pull on the inner door handle, insert the housing on the inner door metal (3 slots) and push forward.
- 6.3. Affix the inner door handle with screws and install the foamed plastic inlet.
- 6.4. Install in contrary order of succession as described on page 3.
- 6.5. Fasten the lower part of the door card with the sheet metal screw in the area „fastening point 4“ on page 4 (see fig.).




## 7. Installation of the doorlining onto the car doors

7.1. Place the panel without speakers onto the door lining and align it:



### Reference points for alignment:

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

**Reference point 1:** Exactly insert the „nose“ at the top of the panel into the opening above the front edge of the original tray.

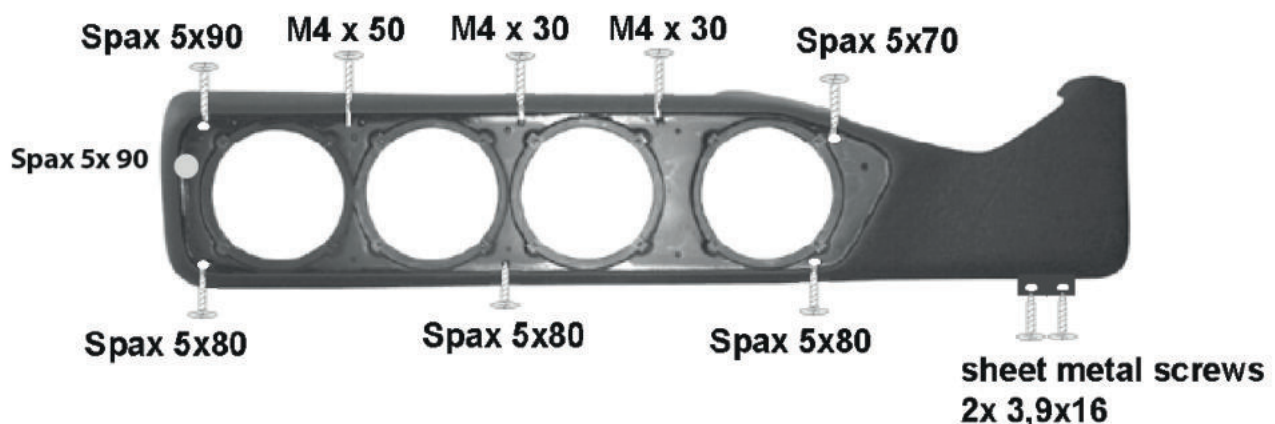
**Reference point 2:** Adjust the upper panel directly under the armrest.

**Reference point 3:** The panels bottom edge and lower edge of the door panel are parallel.

7.2. Pre-drill the screw holes for the **M4-screws**, press the panel with the knee up and fix it with the door panel by gently tightening of the **M4-screws and nuts**. Check again fit and tighten careful with the provided screws.

7.3. Screw in the Spax and sheet metal screws supplied with through the panel and the doorboard in the door metal (see fig.).

-> **Caution!:** observe wiring harness!

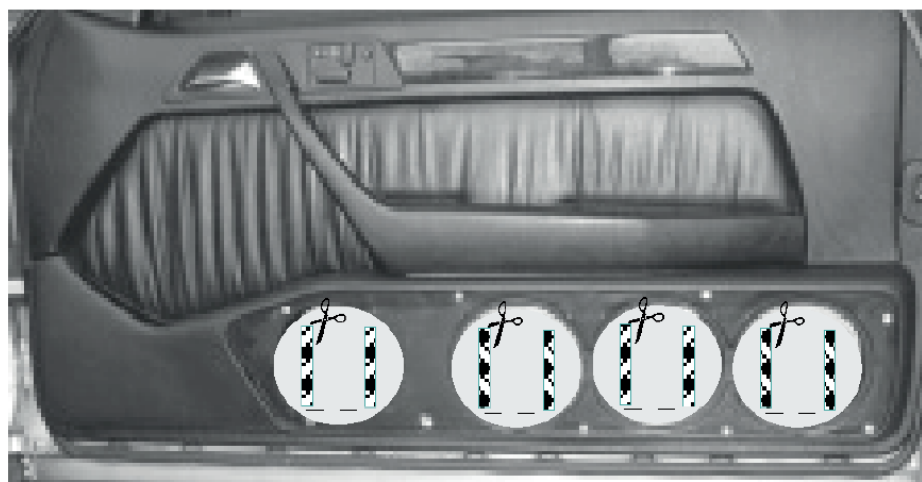


**All cutting edges of the doorboard must fit to the door card snugly all around without gap!**

## 8. Speaker connection

8.1. In order to improve the acoustic coupling to the door volume cut out the moisture protection foil behind the woofers (like an "U").

OR TAKE „rain stop“- Akustic-foam! (optional)



**Final inspection after panel installation:**

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

8.2. Insert subwoofer and midrange and connect all loudspeakers with the included standard cables for subwoofer to the crossover circuit: parallel wiring see diagram on page 11.

**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 subwoofers must move uniformly!***



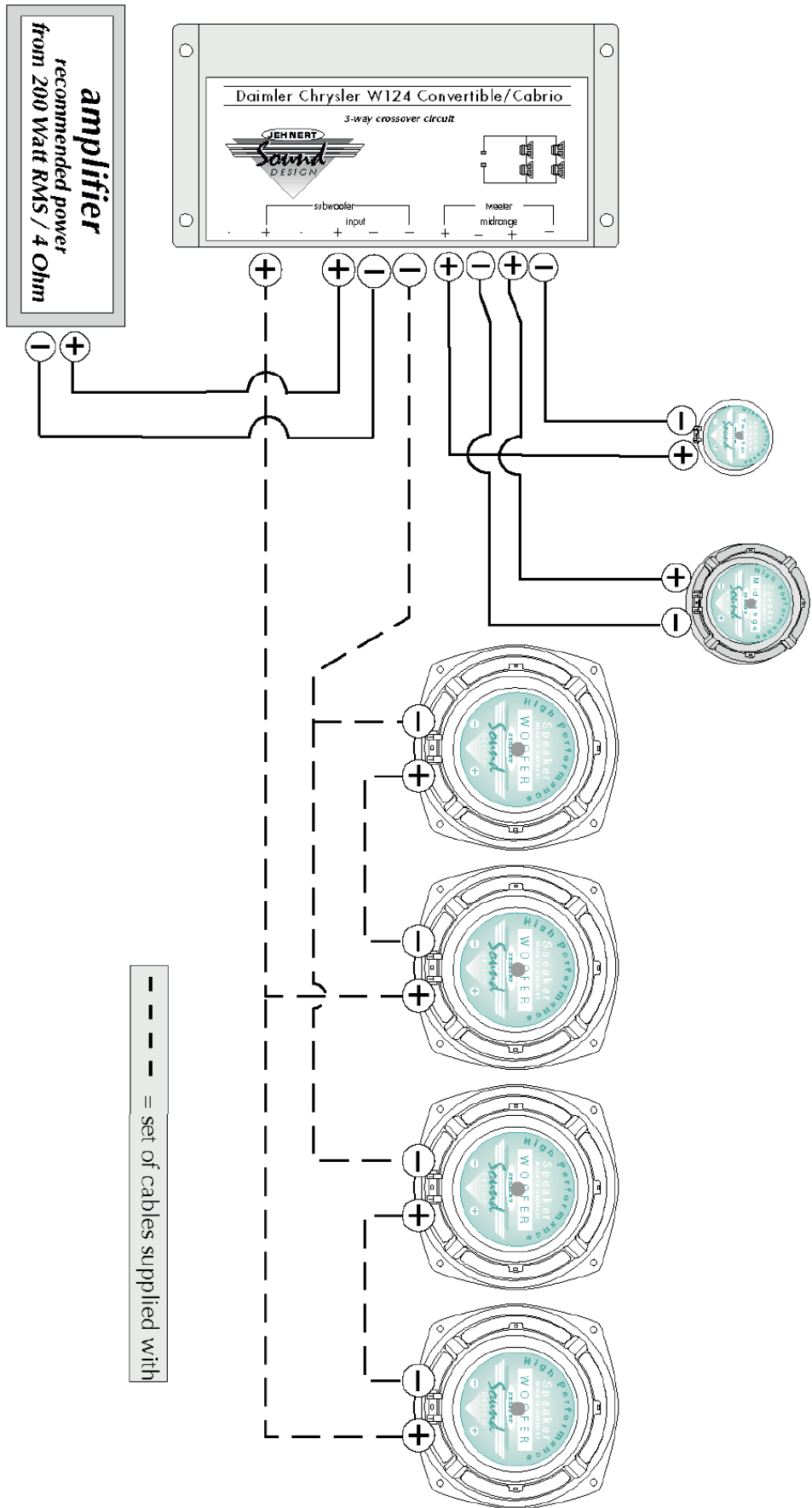
***Wrong polarity of a subwoofer can totally equalize the bass sound!***



# Loudspeaker wiring diagram

Connect all loudspeakers and crossover circuits:

## Circuit diagram of 3-way crossover / 4x subwoofer





## 9. Installation of the speaker's grill :

Precisely align and carefully press grill into the Velcro fasteners.



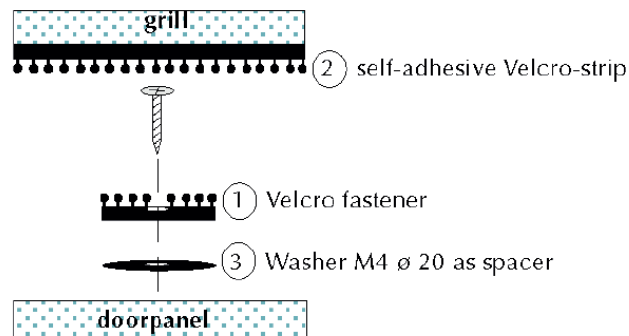
**The Velcro fastener makes a crackling sound when it is closed correctly.**

### Our Tip:

**If the panel cannot be pressed on completely at some points. . .**

Cause: the special form at these points and the resulting differences in material cross section of the grill.

Solution: the distance can be levelled out with spacers (3) under the Velcro disc.  
(Spacers included with the screw kit)



### **Removing the grills:**

The Velcro fasteners stick together very strongly!  
The grills can be removed anytime by carefully lifting them off.  
Please, avoid any way of forceful yanking at the grills.  
It could break!

## Technical information

Equipment:	mechanical or electric window control
Model/ year:	W124 - Convertible / Coupé
Insulation:	<b>absolutely necessary!! – see page no. 6</b>
Note about setting:	To obtain optimal stereoscopic sound, all settings on the radio (bass, treble, loudness etc) should be set to zero or neutral.
Recommended amplifier power :	from 2x 200 - 360 Watt RMS / 4 Ohm
Metal cutwork :	not necessary
Cut-outs for loudspeaker/ each side	4 x 144mm (max.outer dimensions subwoofer 165 mm) (max.installation depth subwoofer 65 mm) <b>Euro-Norm standard basket ø 6" made to fit</b>
Sound-System:	3-ways 4 x 165 mm woofer / side 1 x 100 mm midrange / side 1 x 26 mm tweeter / side car-customized crossover network max.continuous Watt/RMS: 2 x 300/500Watt car specific frequency range: 49-22.000 Hz Total impedance: 4 Ohm

We reserve the right to make technical changes, as well as development.

## ***It is our pleasure to help you!***

### ***Self-help and fault diagnosis***

The following notes serve to help troubleshoot and eliminate faults or malfunctions on your own. If the following measures are not effective, please call us.

<b>What can it be if ...</b>	<b>possible cause/ solution</b>
<b>..it doesn't sound right.</b>	wrong polarity on the subwoofers (→ page 10) crossover circuit attached wrong (→ page 11) Doorlining and moisture protection foil not cut out (→ page 5+10) amplifier doesn't have enough power( →page 13) amplifier connection
<b>...it doesn't fit correctly.</b>	door panel customization (→ page 9) installation of the panels on the door lining (page 9)
<b>.....grills do not hold.</b>	observe notes on → page 12!
<b>vibrations</b>	insulation, see notes on page → 6



- 1.) Hole Ø 4cm
- 2.) self-tapping screw with collar 3.9 x 13

Mid-high module on the dashboard