

Soumatrix speakers installation guide

Preface

- ◆ *Soumatrix coaxial speakers combine bass and treble loudspeaker in one unit.
Just replace the car original bass loudspeaker in each of the front and rear doors.*
 - ◆ *Please disconnect the car original tweeter to disable it.*
 - ◆ *If the car equipped the amplifier and subwoofer originally,
please keep them and work together with Soumatrix speakers.
You simply adjust the balance or equalizer to fit your own preference.
Soumatrix speakers will give you better a room-coustic feeling.*
 - ◆ *This manual quoted some part of VW repair manual group
“Communication” and “General body repairs, interior”.*
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2.1 Overview of radio system

1 - Interface for external multimedia devices -R215-

- ☐ Installed in storage compartment of centre armrest

2 - Connection for external audio sources -R199-

- ☐ Installed in storage compartment of centre armrest

3 - Telephone aerial, navigation and auxiliary heating remote control -R66-

- ☐ Installed in rear lid
- ☐ Only installed when a telephone or an auxiliary heater is factory fitted in addition to the radio

4 - Rear right treble loudspeaker -R16- and rear left treble loudspeaker -R14-

- ☐ Installed in left and right side panel trims in passenger compartment.

5 - Rear right bass loudspeaker -R17- and rear left bass loudspeaker -R15-

- ☐ Installed in left and right side panel trims in passenger compartment.

6 - Amplifier -R12-

- ☐ Installed under left front seat

7 - Front right bass loudspeaker -R23- and front left bass loudspeaker -R21-

- ☐ Installed in left and right doors
- ☐ Mid-range sounds are handled by the bass and treble loudspeakers.

8 - Front right treble loudspeaker -R22- and front left treble loudspeaker -R20-

- ☐ Installed in left and right doors

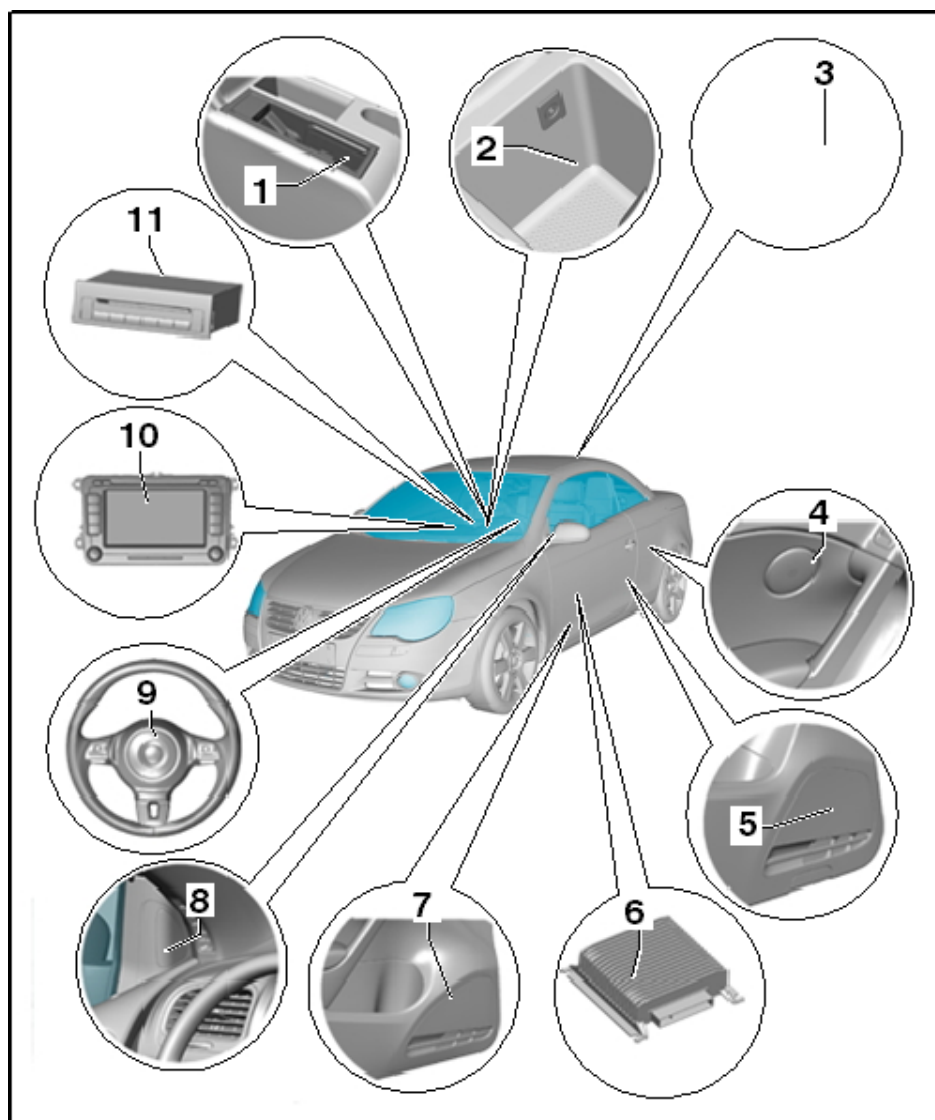
9 - Multifunction buttons on left in steering wheel -E440- and multifunction buttons on right in steering wheel -E441-

10 - Radio -R- (RCD 310)

- ☐ Removing and installing .
- ☐ Overview of connectors
- ☐ Anti-theft coding .

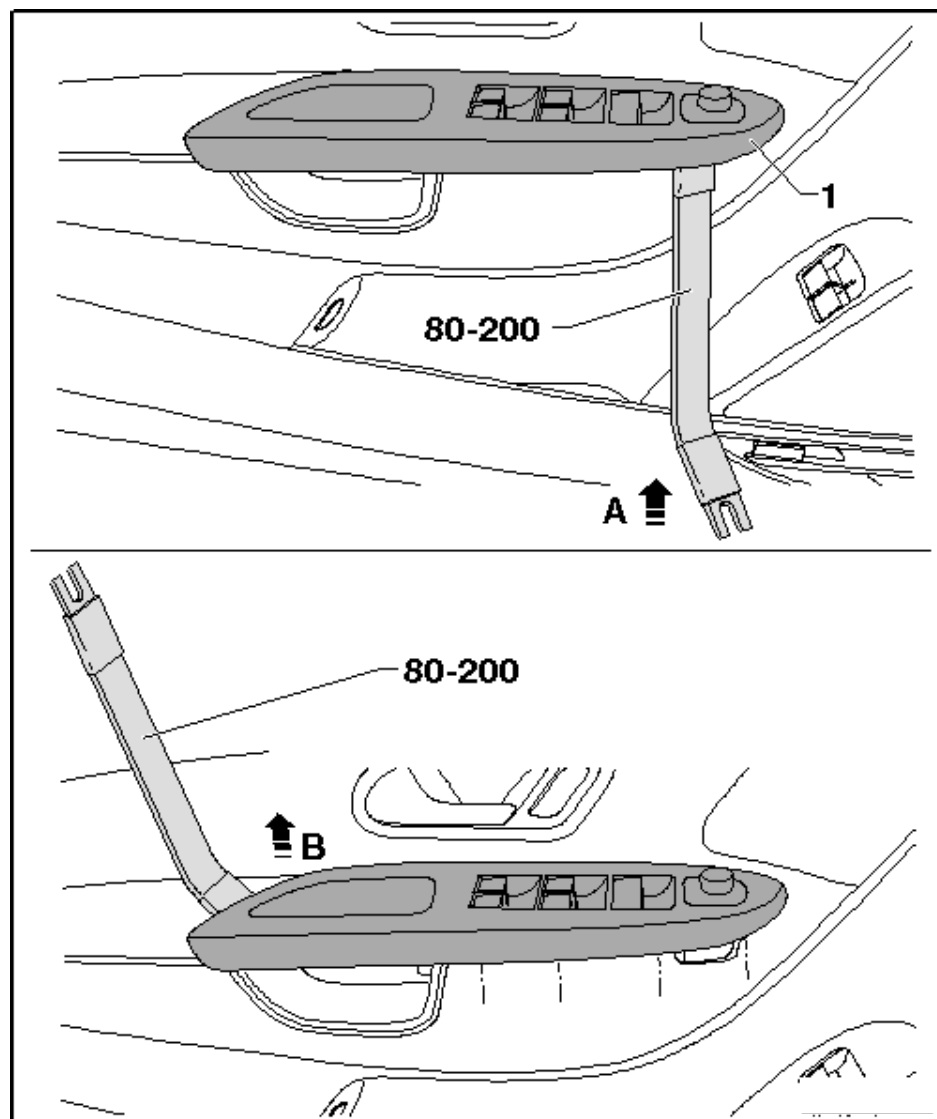
11 - CD changer -R41-

- ☐ 6-disc CD changer
- ☐ Installed in storage compartment of centre armrest



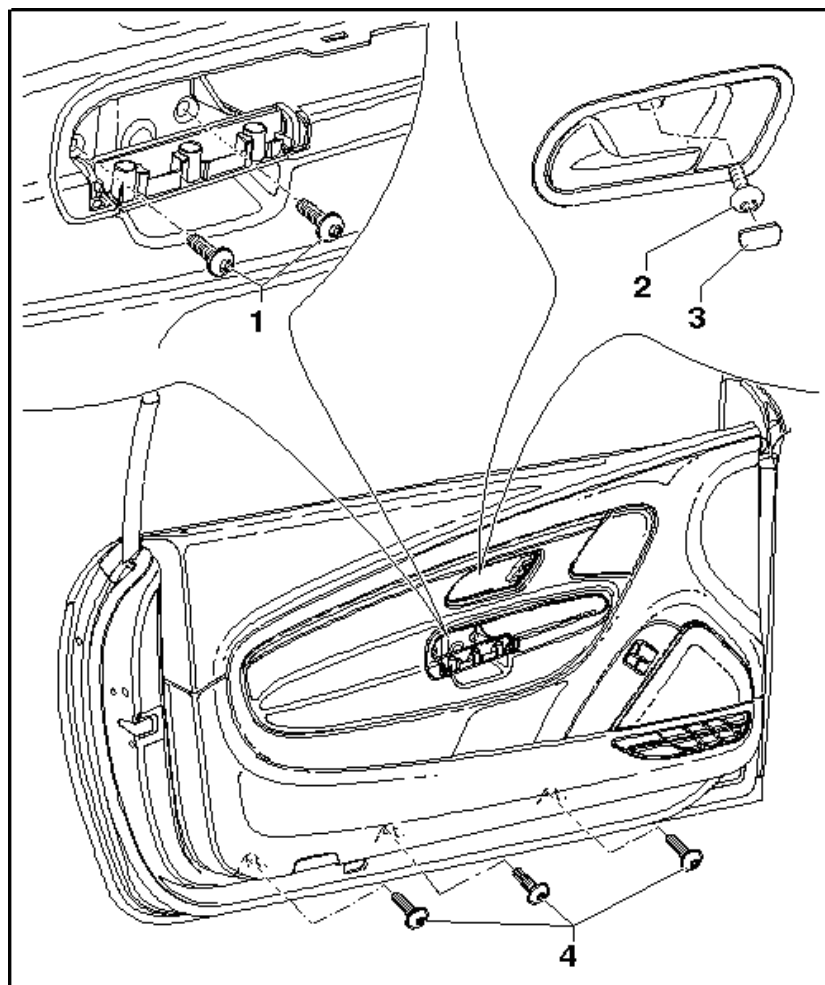
2.2 Removing the front door trim

- Separate upper part of grip moulding from retainers in door trim.
- Depending on vehicle equipment, disconnect wiring harnesses from upper part of grip moulding.



- Remove the two bolts -1- in area of grip moulding .
- Lever cover cap -3- out of grip moulding.
- Remove bolt -2- .

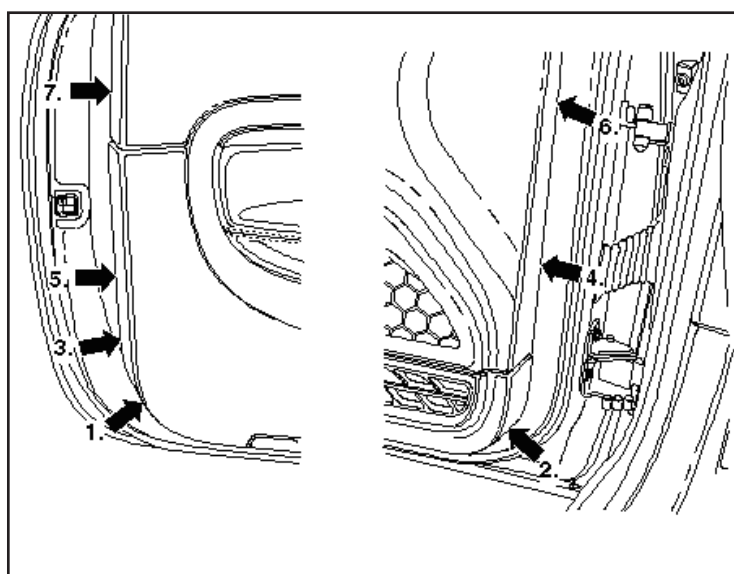
- Remove the three bolts -4- .



! Caution

- ◆ **When the door trim is separated, there is a risk that fastening elements may be damaged. To prevent this from happening, the positions of the clips which must be separated are pictured in the following illustration.**

- Separate door trim from the clipped connections in the -stated order- using wedge -T10383/2- or wedge -T10383/1-.



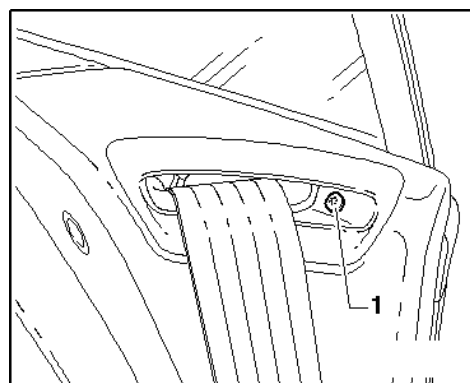
2.3 Removing the side trim



*Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.*

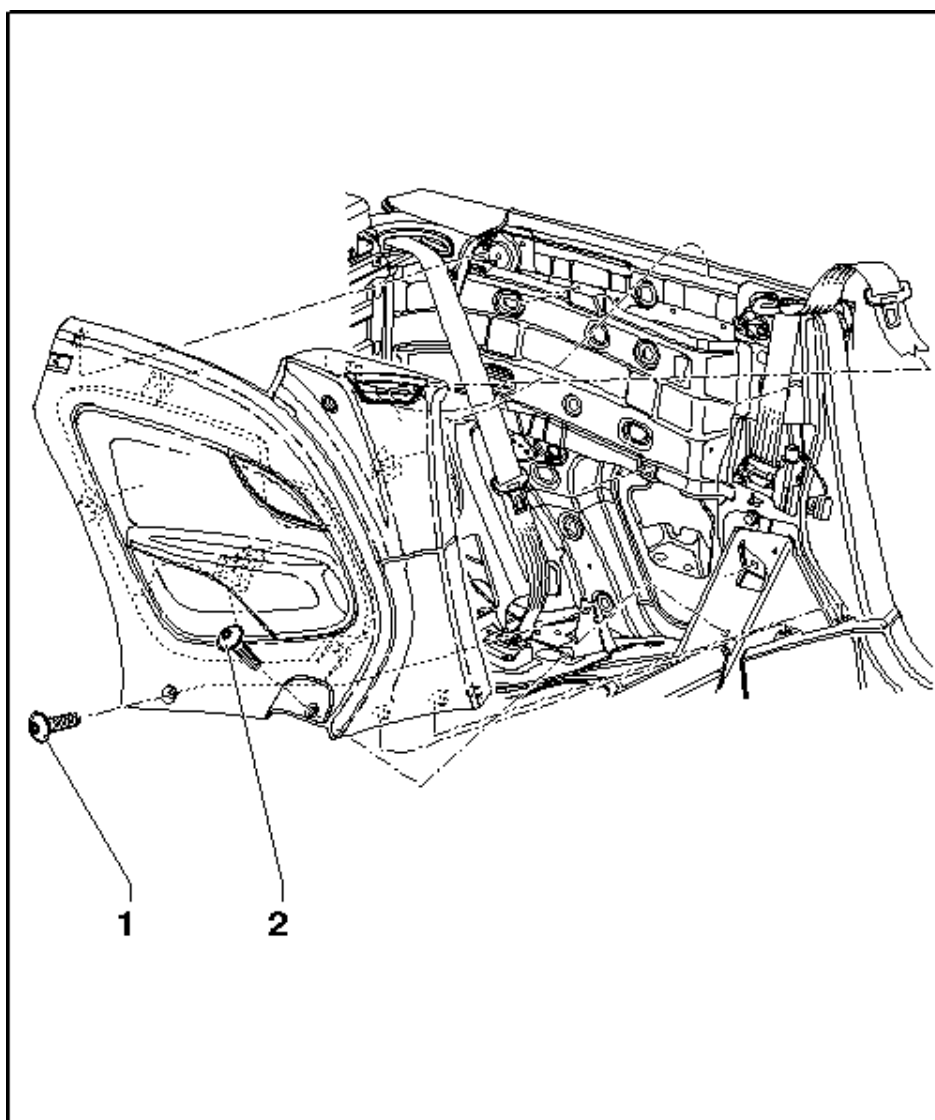
Removing

- Move rear lid to service position
- Remove bench seat.
- Remove bolt -1- in area of seat belt outlet trim.

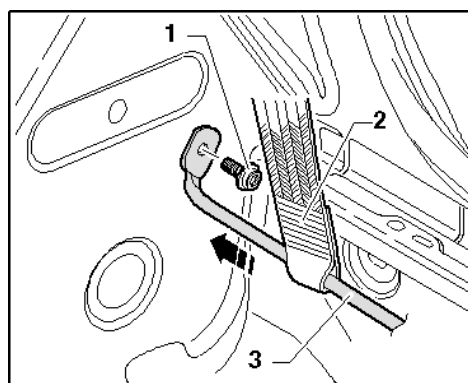


- Remove bolts -1- and -2-.
- Release side trim upwards from mountings in body.

- Disconnect wiring harness from loudspeaker.



- Remove sill panel trim .
- Remove bolt -1- .
- Remove belt webbing -2- from belt anchor rail -3- -arrow-.
- Thread belt webbing through belt outlet trim in side trim.



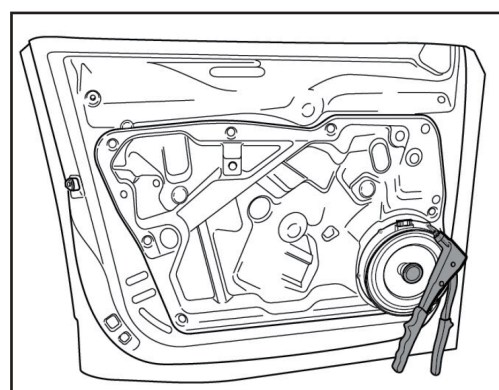
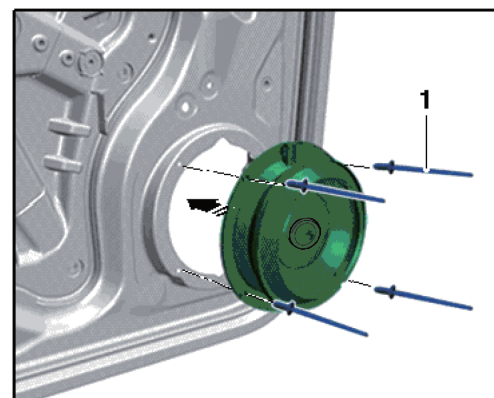
2.4 Installing the soumatrix speakers

Note

When installing Soumtarix speakers, secure it with the attached rivets.

- Insert loudspeaker in -direction of arrow- and secure with 4 rivets -1-.
- Push connector back into speaker.

Remainder of installation is carried out in reverse order of removal.



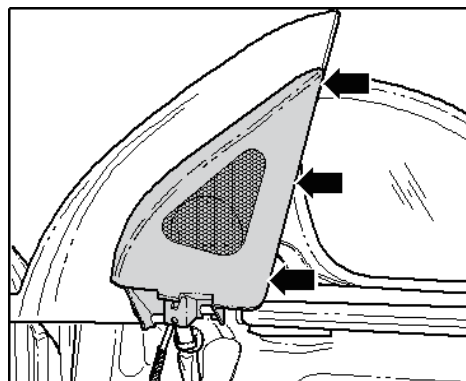
2.5 Disconnecting front original tweeter

Note

- ◆ *Removal is described and illustrated for front left tweeter .*
- ◆ *Removal of the front right ttweeter are similar (mirror image of left-hand side) .*

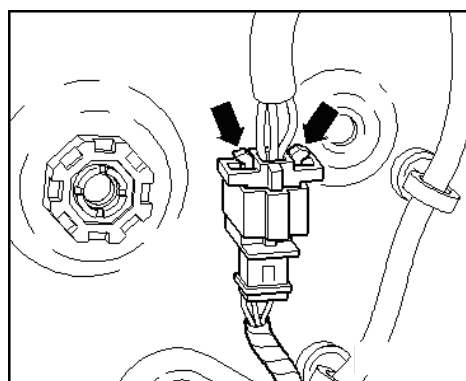
i Note

- ◆ *The treble loudspeaker is installed in mirror triangular trim plate in both front doors.*

**Removing****i Note**

- ◆ *In order to improve the acoustic environment, it is necessary to release original treble and center speakers*

- Unclip trim together with loudspeaker -arrows-.



2.6 Disconnecting and installing rear original tweeter

The rear left treble loudspeaker -R14-/rear right treble loudspeaker -R16- are installed in the rear side trim panel.

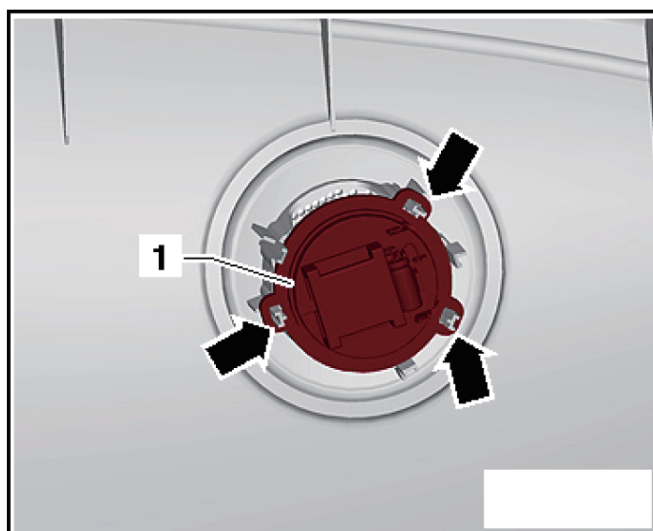
Removal and installation is performed in the same manner on the left and right sides.

Removing

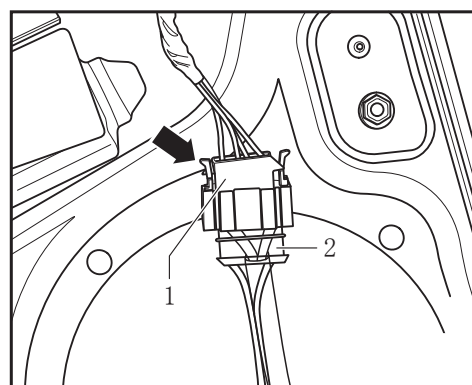
- Switch off ignition and all electrical loads, and pull out ignition key.
- Remove side trim panel
- Release connector and disconnect.

The loudspeaker -1- is permanently attached to the side panel trim at 3 points -arrows-.

It can only be replaced together with the trim.



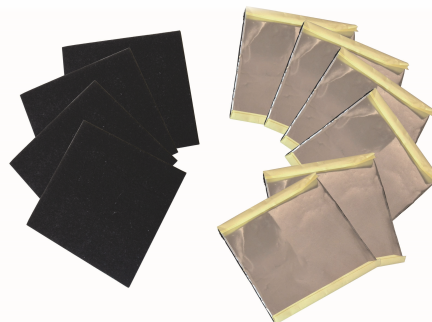
- Just release the connector, don't remove anything.



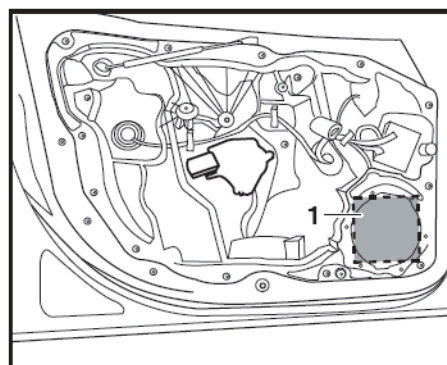
Acoustic Improvement on door (optional)

◆ *The acoustic components can improve the acoustic result in car by key position treatment.*

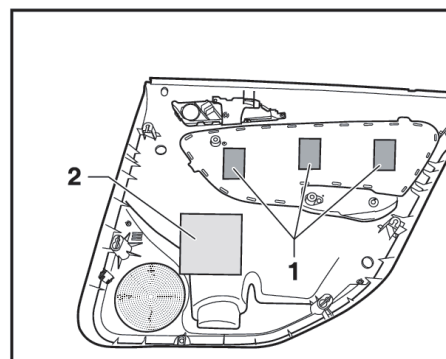
- *The real stuff you can see as picture shown.*
- *The left side are absorber sheet, which can absorber air shock from the speaker back.*
- *The right side are damping sheet, which can reduce the vibration from the door.*



- *Paste the absorber sheet - 1 - on the door sheet metal behind the speaker as the pic shown.*



- *Paste the damping sheet - 1 - 2 - on the right position. It depends vibration point by touch.*



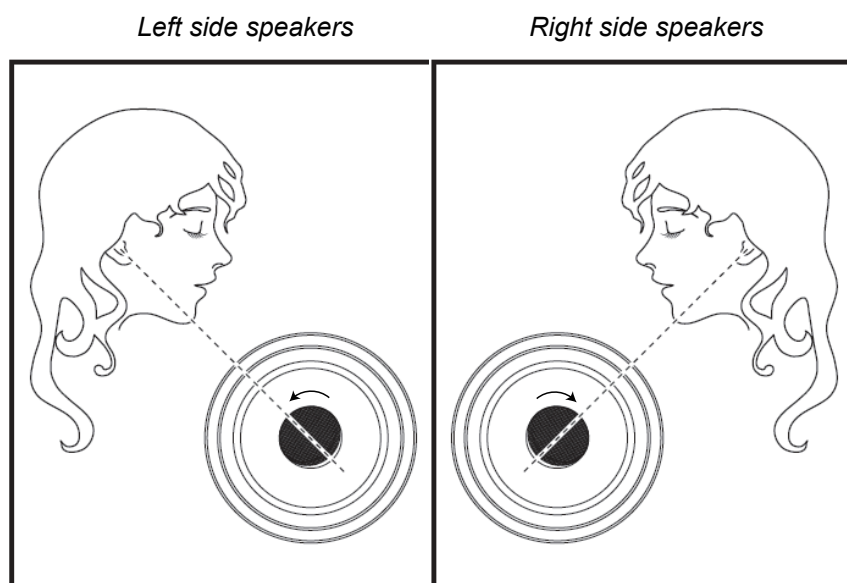
Tweeter angle adjustment

- ◆ *Soumatrix speakers tweeter is Bionic wide-angle point source design, which can be rotated 90 degree.*

- *For your best listening position, you can adjust the tweeter angle toward your ear.*

- *The left side speakers, you should rotate the tweeter to a limited quarter turn to the left-hand.*

- *The right side speakers, you should rotate the tweeter to a limited quarter turn to the right-hand.*



- *Please reverse the detached process to recover the door trim panel and the connectors. Ensure all the function is OK.*

- *To obtain best result, leave Soumatrix speakers to burn-in at least 20 hours below 80% power after installation.*