

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 – sound system, 6 loudspeakers

6 loudspeaker system

1 - Radio -R-

2 - LF wires

3 - Bass loudspeaker,
front right -R23-

□ In right front door

4 - Front right treble
loudspeaker -R22-

□ In right A-pillar

5 - Mid-range loudspeak-
er, front right -R104-

□ In right front door

6 - Mid-range loudspeak-
er, front left -R103-

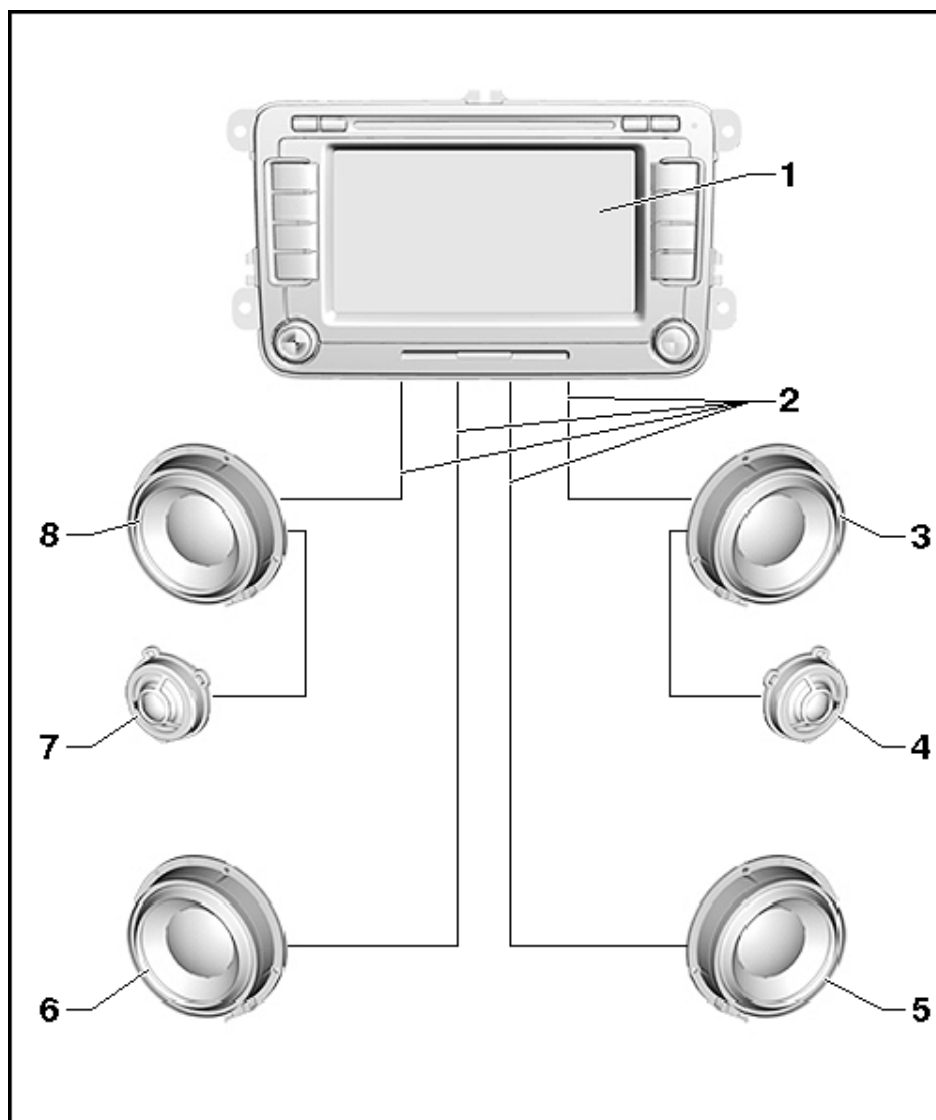
□ In left front door

7 - Front left treble loud-
speaker -R20-

□ In left A-pillar

8 - Bass loudspeaker,
front left -R21-

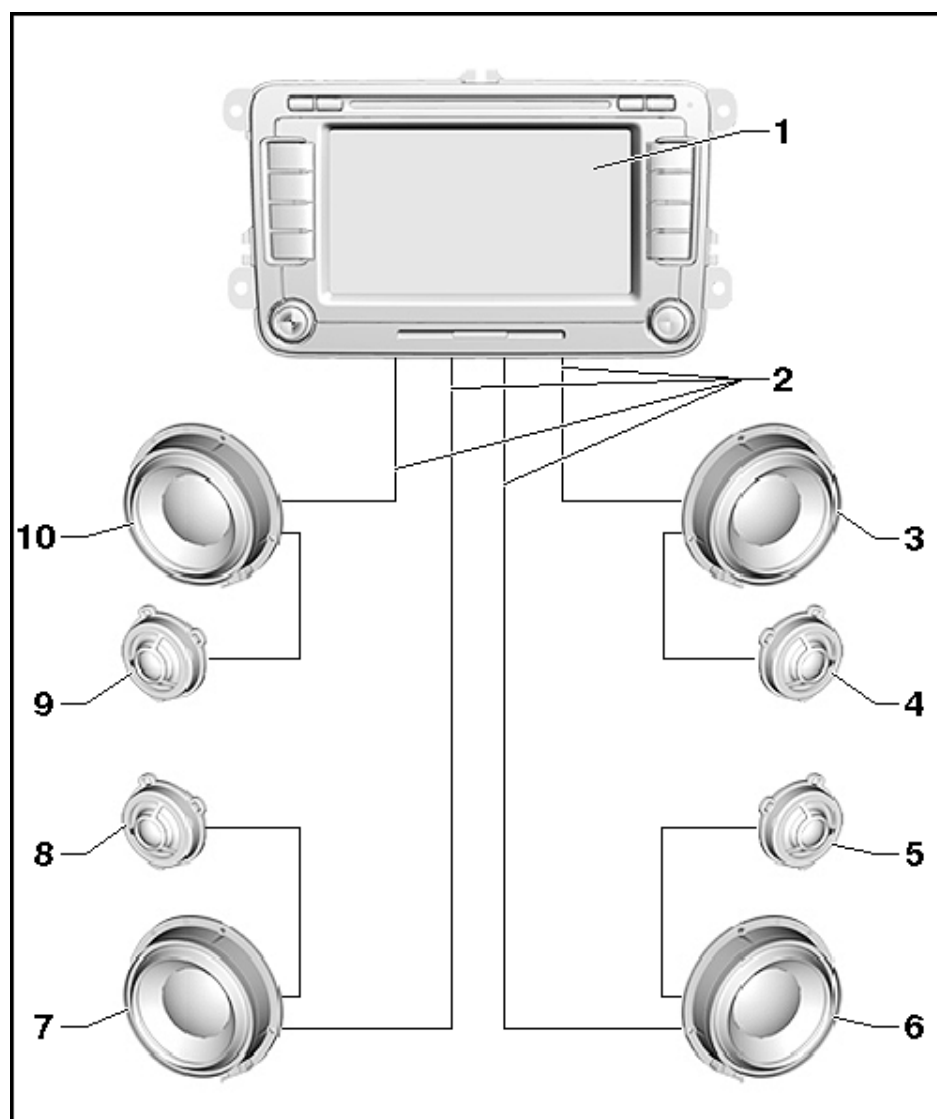
□ In left front door



2.2 Overview – sound system, 8 loudspeakers

8 loudspeaker system

- 1 - Radio -R-
- 2 - LF wires
- 3 - Bass loudspeaker, front right -R23-
□ In right front door
- 4 - Front right treble loudspeaker -R22-
□ In right A-pillar
- 5 - Treble loudspeaker, rear right -R16-
□ In rear right door
- 6 - Bass loudspeaker, rear right -R17-
□ In rear right door
- 7 - Bass loudspeaker, rear left -R15-
□ In rear left door
- 8 - Treble loudspeaker, rear left -R14-
□ In rear left door
- 9 - Front left treble loudspeaker -R20-
□ In left A-pillar
- 10 - Bass loudspeaker, front left -R21-
□ In left front door

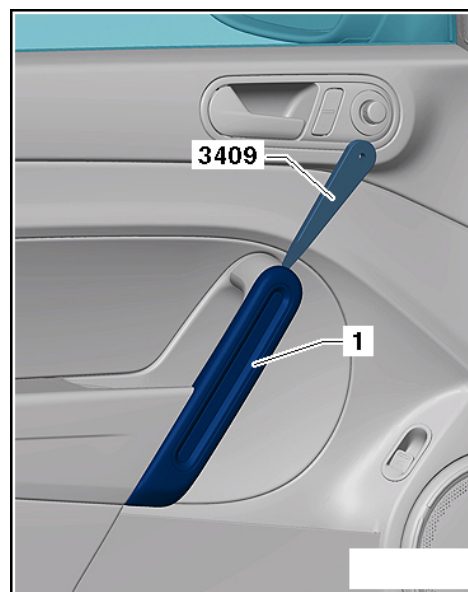


2.31 Removing the front door trim

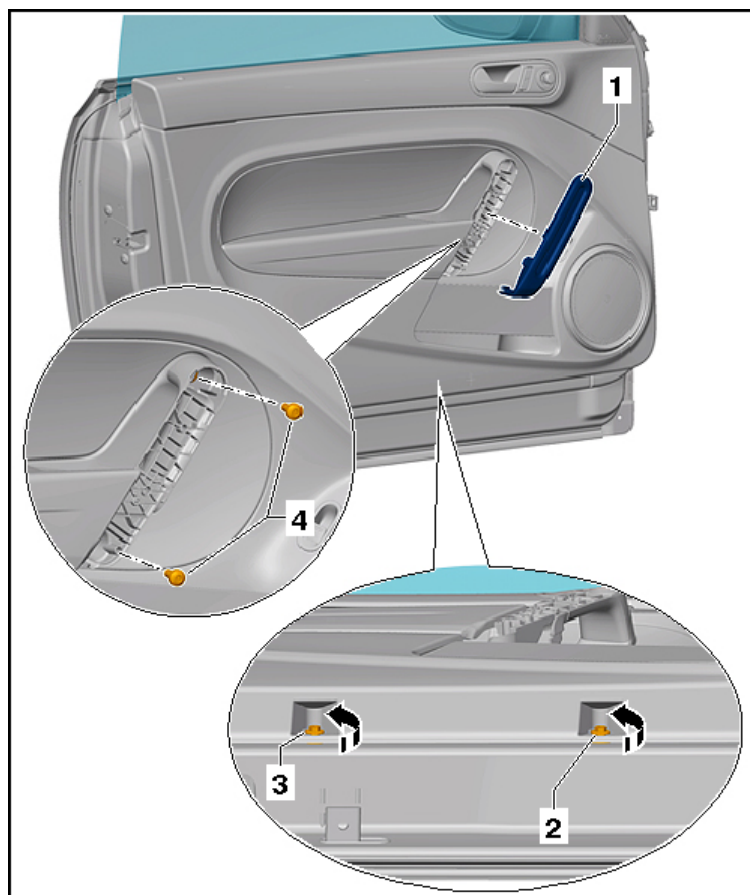
Carry out following work:

Removing

- Switch off ignition.
- Remove switch module of window regulator
- Prize upper part of handle recess -1- out of mountings in door trim -2-, using removal wedge -3409- to do so.



- Undo screws -4-.
- Twist retaining clips -2- and -3- 90° in -direction of arrow- to release.



2.32 Removing the side trim

Note

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

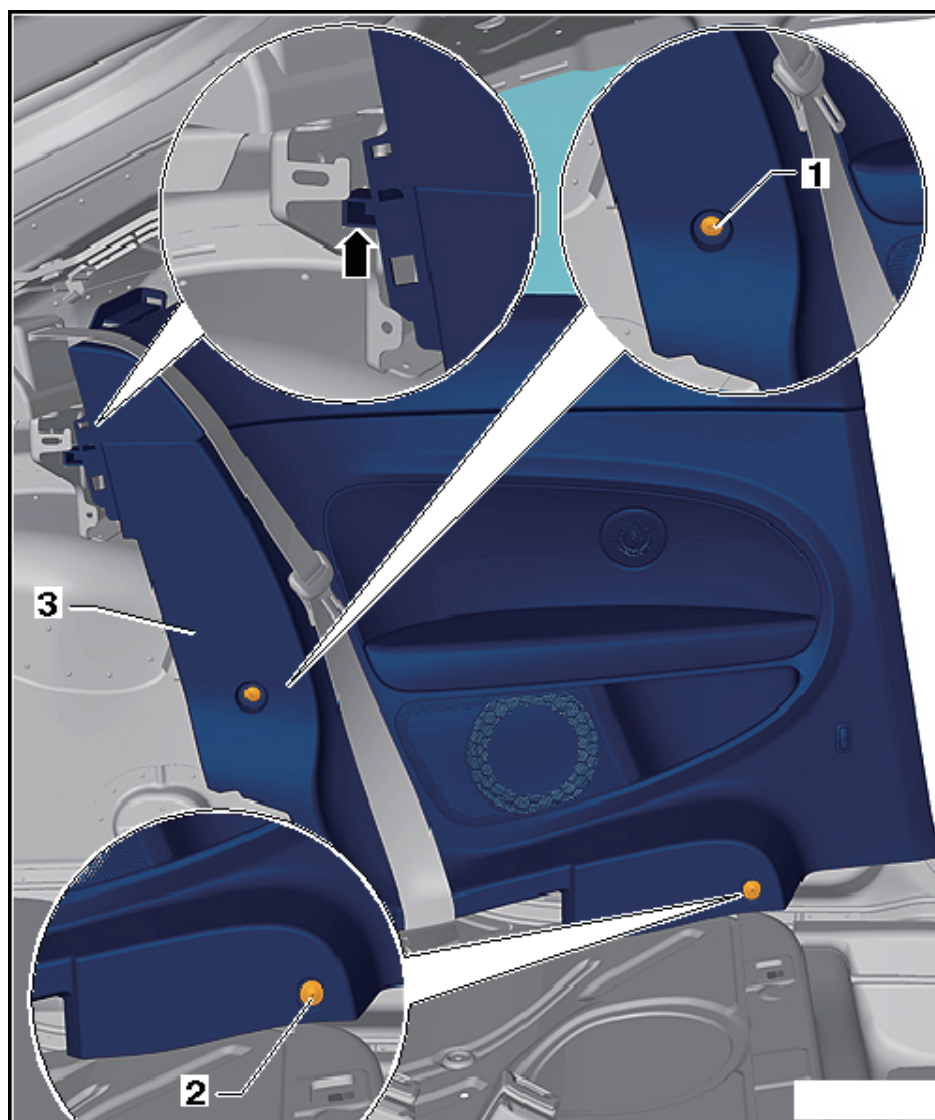
Removing

- Remove rear bench seat.

Caution

The backrest of the rear seat system must not be pushed down on the centre backrest mounting! To prevent damage to covers on backrest, place a foam cushion or similar between backrest mounting and backrest.

- Remove side support for luggage compartment cover
- Remove C-pillar trim
- Detach B-pillar trim
- Fold backrest forwards.
- Undo screw -1-.
- Remove clip -2-.
- Pull side trim -3- in front area towards interior of vehicle to remove it from mountings in body.
- Remove side trim -3- out of mounting in body towards front of vehicle -arrow-.
- If fitted, detach connector from treble loudspeaker and from interior monitoring deactivation switch -E267-.



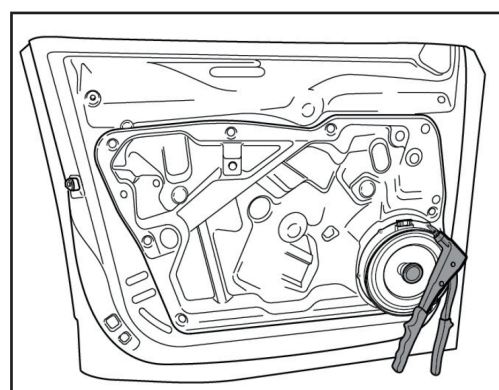
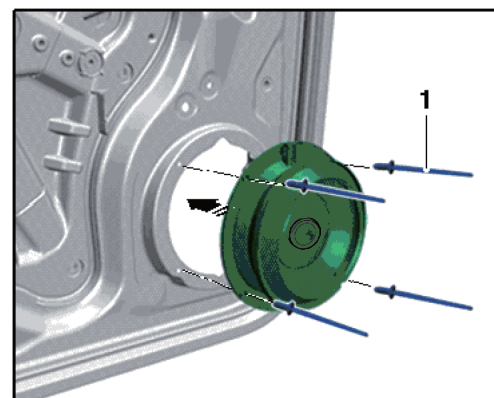
2.33 Installing the soumatrix speakers

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.



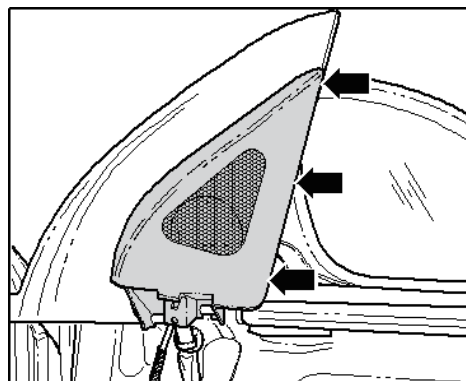
2.34 Disconnecting front original tweeter

Note

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

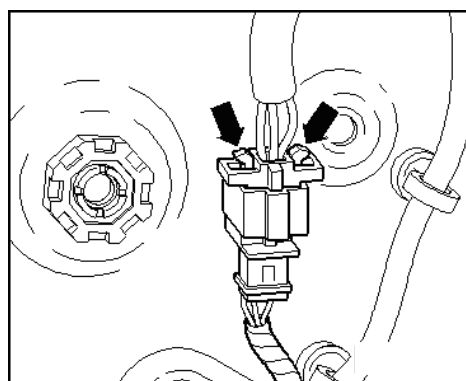
i Note

- ◆ *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-.



2.35 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.

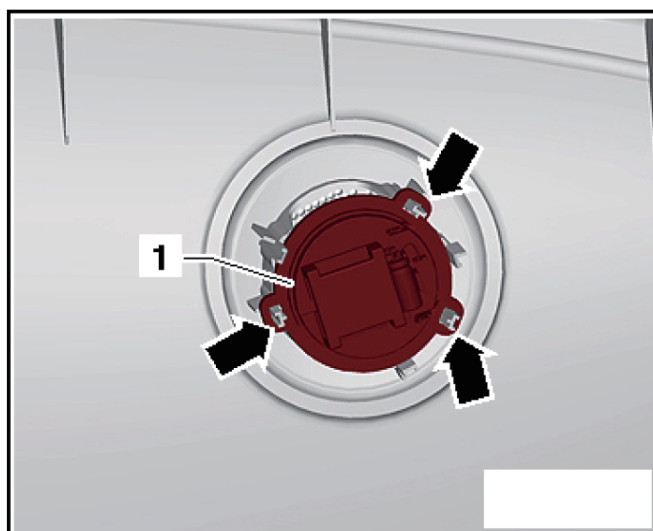
Removal and installation is performed in the same manner on the left and right sides.

Removing

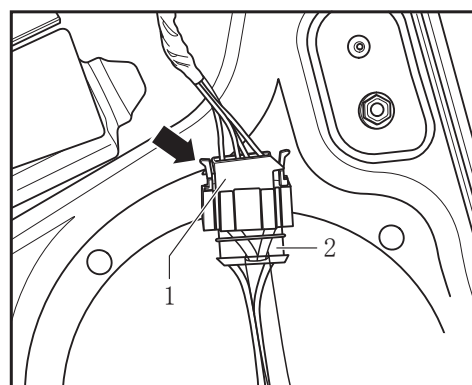
- Switch off ignition and all electrical loads, and pull out ignition key.
- Remove side trim panel
- Release connector and disconnect.

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

It can only be replaced together with the trim.



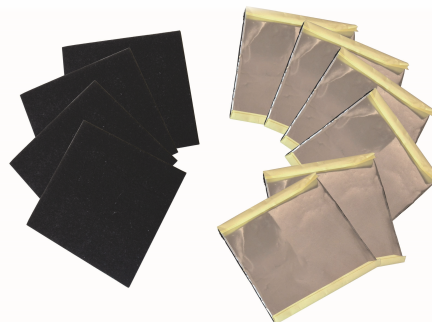
- Just release the connector, don't remove anything.



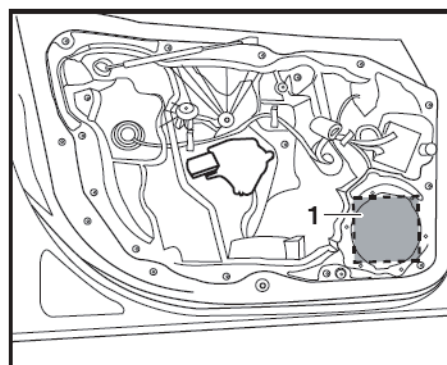
Acoustic Improvement on door (optional)

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

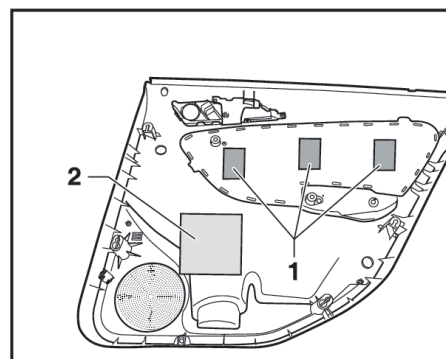
- *The real stuff you can see as picture shown.*
- *The left side are absorber sheet, which can absorber air shock from the speaker back.*
- *The right side are damping sheet, which can reduce the vibration from the door.*



- *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.*



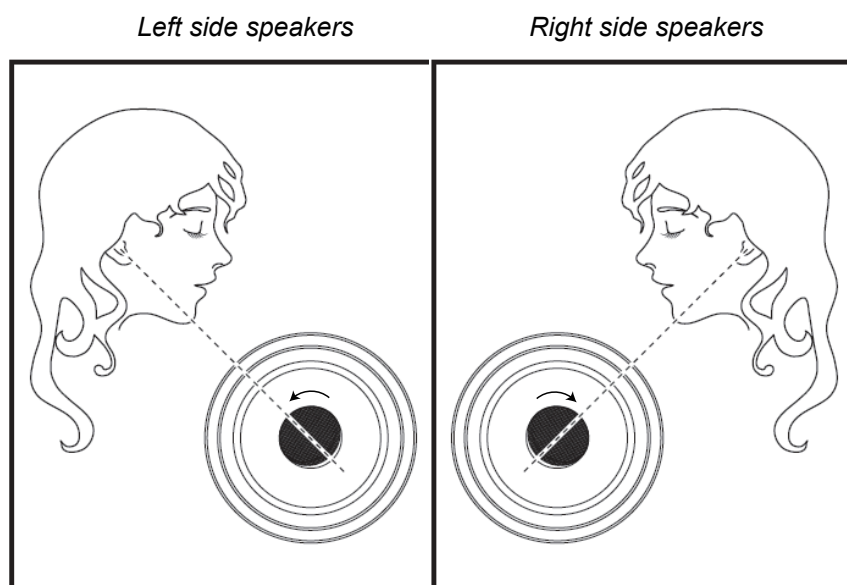
Tweeter angle adjustment

- ◆ *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.*