

## 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 Assembly overview of radio system

### 1 - Digital sound package control unit -J525-

- ☐ Installed in luggage compartment behind left-hand side panel trim
- ☐ Removing and installing
- ☐ Coding
- ☐ Software update
- ☐ Overview of connector pin assignment on amplifier

### 2 - Roof aerial -RX5-

- ☐ Optional
- ☐ Removing and installing

### 3 - Aerial module left -R108- or aerial module right -R109-

- ☐ Mounted at top of side windows
- ☐ Removing and installing

### 4 - Aerial module left -R108- or aerial module right -R109-

- ☐ Mounted at bottom of side windows
- ☐ Removing and installing

### 5 - Interface for Infotainment CAN bus -J885-

- ☐ Installed in luggage compartment behind left-hand side panel trim
- ☐ Removing and installing

### 6 - Rear left treble loudspeaker -R14- or rear right treble loudspeaker -R16-

- ☐ Installed in the door trim
- ☐ Removing and installing

### 7 - Rear left bass loudspeaker -R15- or rear right bass loudspeaker -R17-

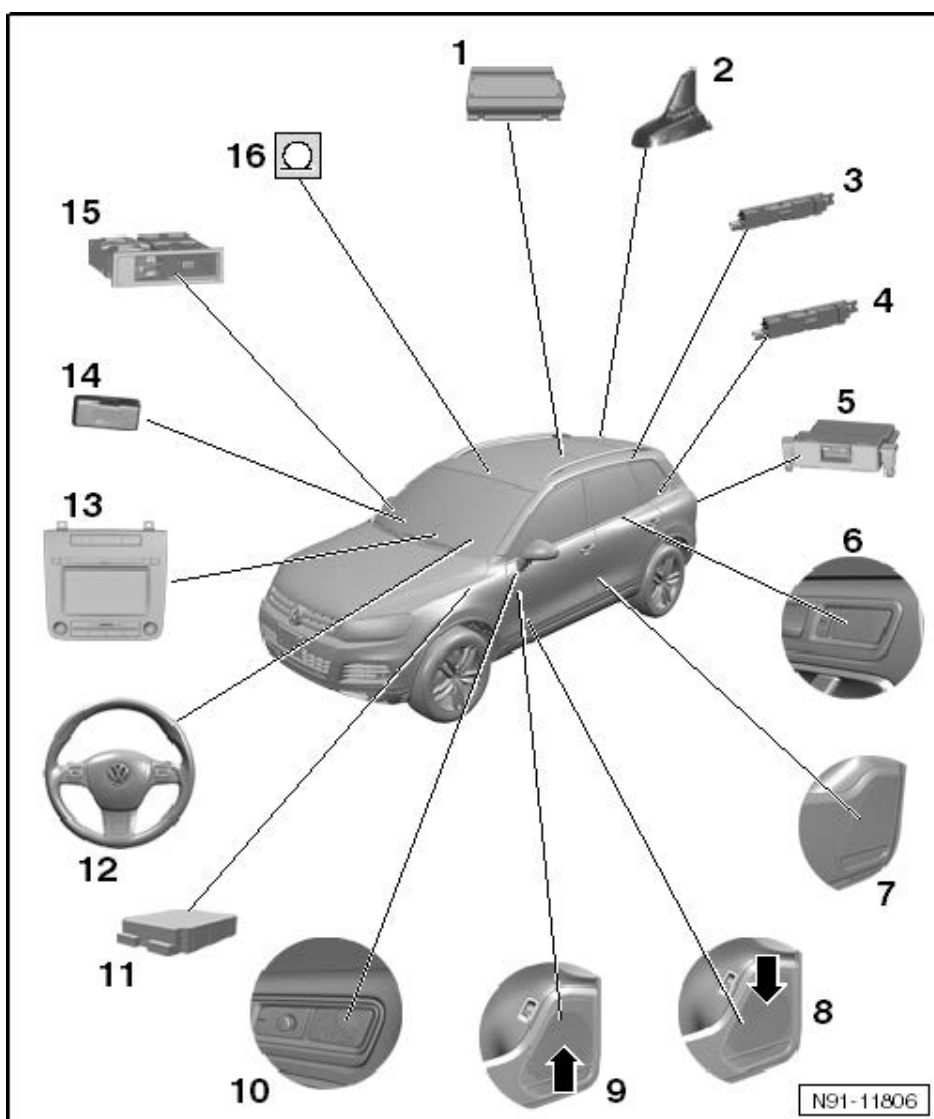
- ☐ Installed in door.
- ☐ Removing and installing

### 8 - Front left bass loudspeaker -R21- or front right bass loudspeaker -R23-

- ☐ Installed in door.
- ☐ Removing and installing

### 9 - Front left mid-range loudspeaker -R103- or front right mid-range loudspeaker -R104-

- ☐ Installed in the door trim



- ☐ Optional
- ☐ Removing and installing

**10 - Front left treble loudspeaker -R20- or front right treble loudspeaker -R22-**

- ☐ Installed in the door trim
- ☐ Removing and installing

**11 - Data bus diagnostic interface -J533-**

**12 - Multifunction steering wheel with multifunction buttons on right in steering wheel -E441- or multifunction buttons on left in steering wheel -E440-**

- ☐ Additional information

**13 - Radio -R-**

- ☐ Installed in centre of dash panel
- ☐ Removing and installing

**14 - Connection for external audio sources -R199-**

- ☐ In centre console storage compartment beneath front armrest
- ☐ Removing and installing

**15 - Interface for external multimedia devices -R215-**

- ☐ Installed in glove compartment
- ☐ Removing and installing

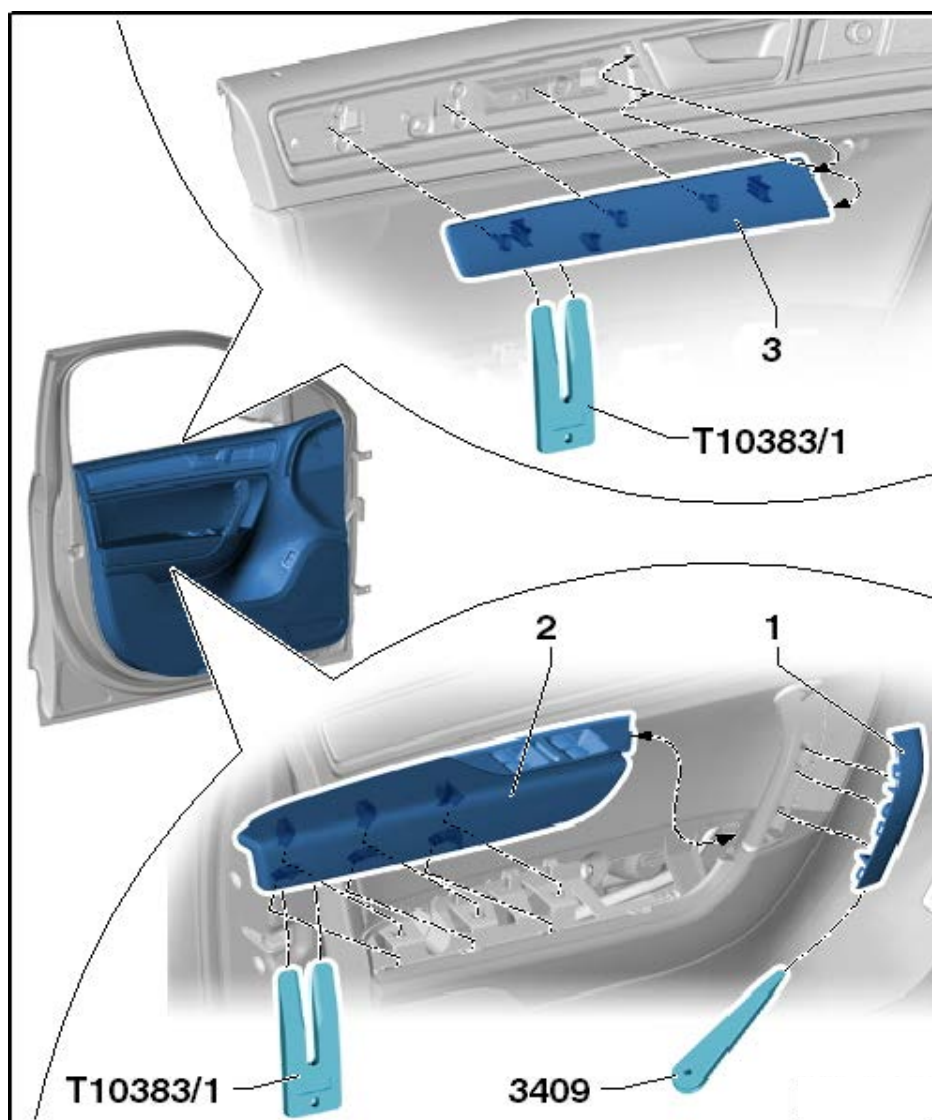
**16 - Front right microphone -R141- or front left microphone -R140- for telephone**

- ☐ Installed in the front roof console

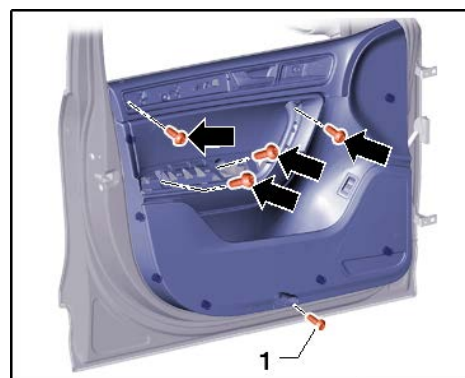
## 2.2 Removing the door trim

### Removing

- Switch off ignition.
- Unclip trim -1- out of door trim using removal wedge -3409-.
- Unclip armrest -2-, starting at rear, with wedge -T10383/1- and release from door trim.
- Separate armrest connector.
- Unclip décor trim -3- from door trim using wedge -T10383/1- and, if present, disconnect connector.



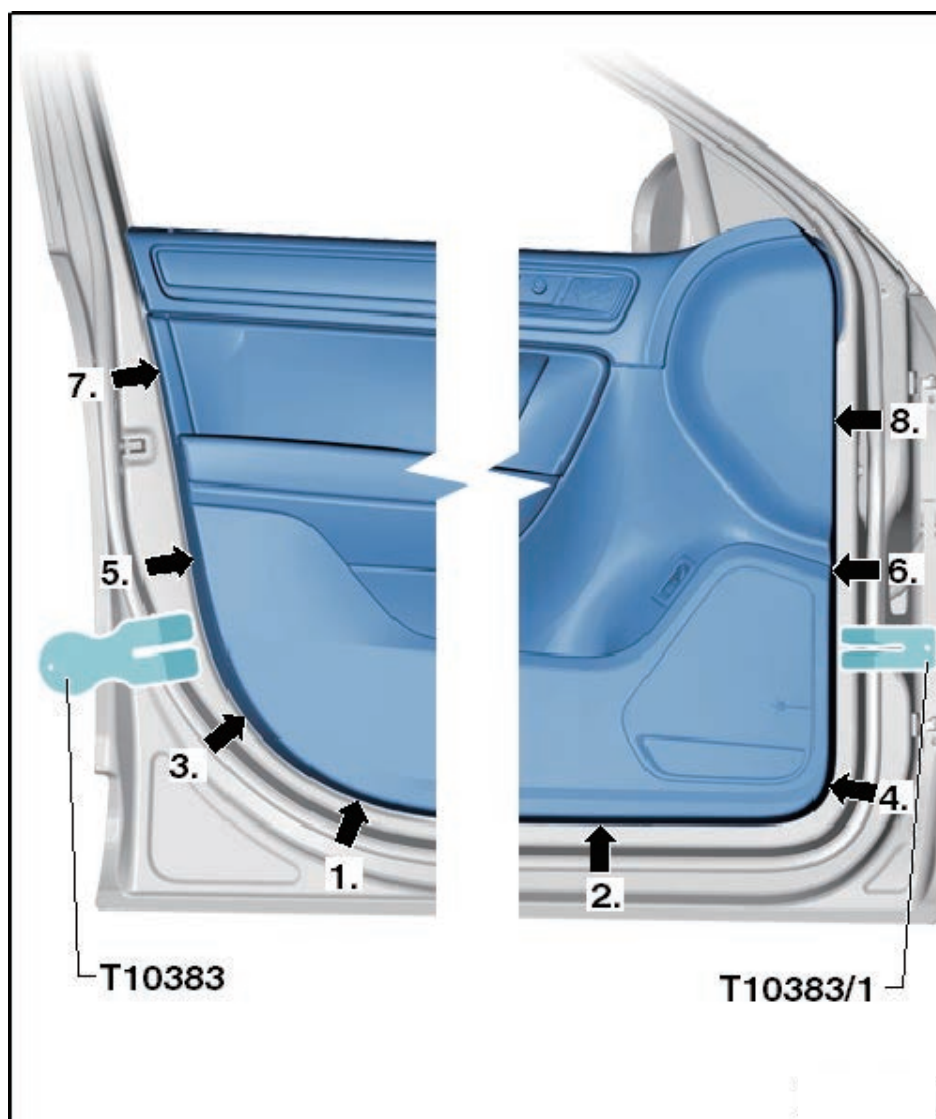
- Unscrew 4 bolts -arrows- .
- Remove bolt -1- .



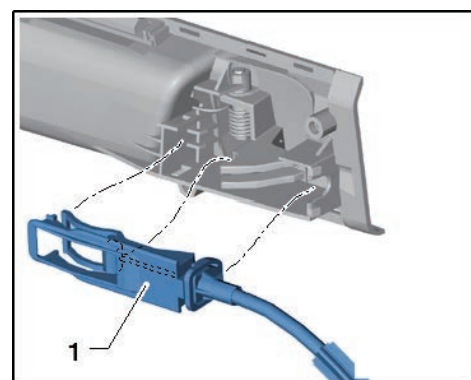
⚠ **Caution**

**When the door trim is separated, there is a risk that fastening elements may be damaged. To avoid this, always follow the specified order and positions of clips when removing the door trim.**

- Release door trim from clips in -specified sequence-. Use wedges -T10383- to do this.



- Pull door trim upwards vertically out of window slot.
- Then unhook Bowden cable -1- from interior door handle on inside of door trim.
- Disconnect the wiring harnesses from the door trim in accordance with the vehicle's equipment.



## 2.4 Removing the car original bass loudspeakers and installing Soumatrix speakers

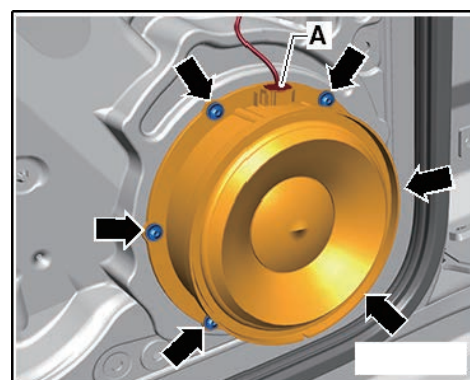
### Note

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

### 10.2.1 Removing:

#### Carry out the following work:

- Switch off ignition and all electrical consumers.
- Remove front door trim panel
- Detach connector -A- from loudspeaker.
- Remove screws -arrows- on loudspeaker.
- Remove loudspeaker from door cut-out.



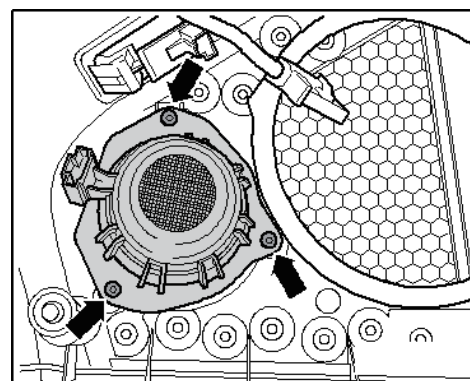
## 2.5 Disconnecting front/rear original tweeter

### Note

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

#### Carry out the following work:

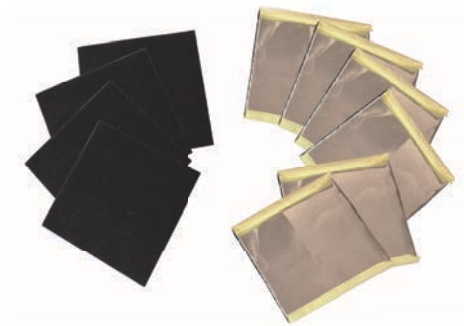
- Switch off ignition and all electrical consumers.
- Remove front door trim panel
- Detach connectors of all switches in interior door handle.



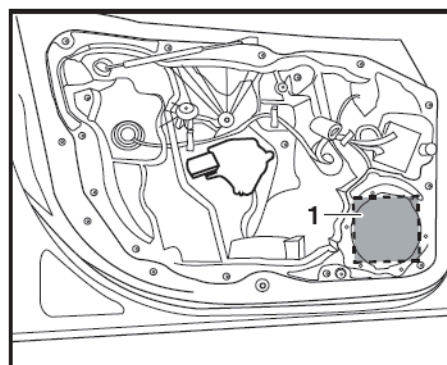
## Acoustic Improvement on door (optional)

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

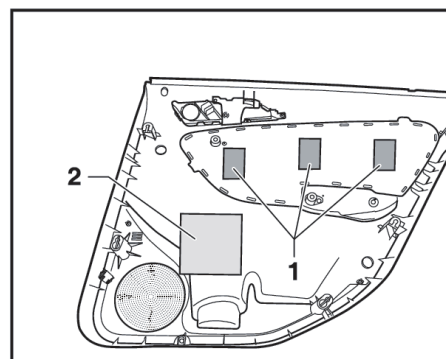
- *The real stuff you can see as picture shown.*
- *The left side are absorber sheet, which can absorber air shock from the speaker back.*
- *The right side are damping sheet, which can reduce the vibration from the door.*



- *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.*





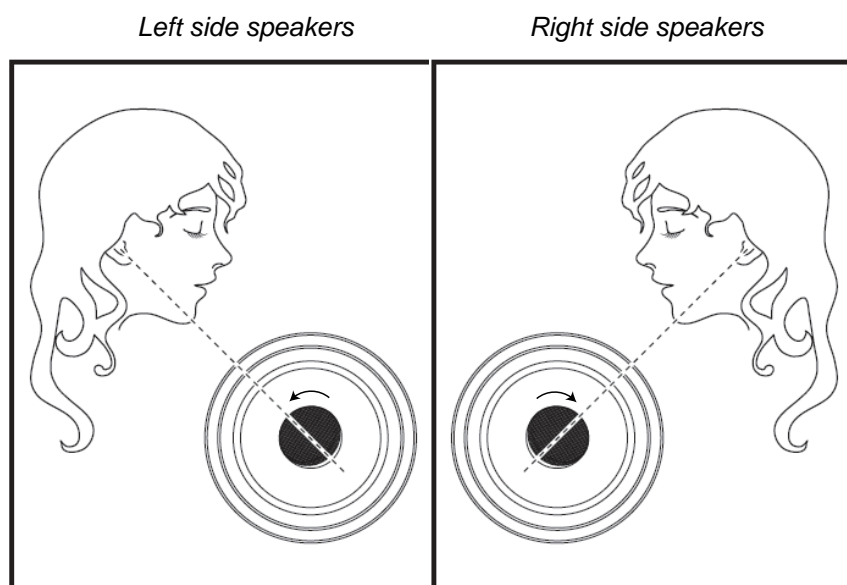
## Tweeter angle adjustment

- ◆ *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.*