

Repair Manual Audi TT 2007 >

Communication

Edition 02.2009

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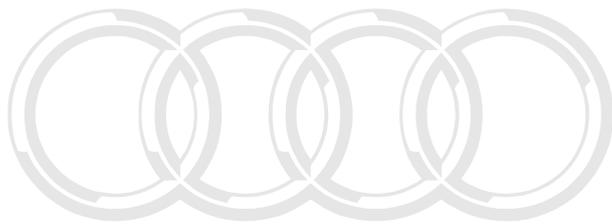
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List of Workshop Manual Repair GroupsList of Workshop Manual Repair GroupsList of Workshop Manual Repair Groups

Repair Group

91 - Communication



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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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91 – Communication

1 General Information

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- ⇒ [“1.8 Navigation System RNS JP5”, page 4](#)
- ⇒ [“1.9 RNS Low Navigation System”, page 4](#)
- ⇒ [“1.10 CD Changer”, page 5](#)
- ⇒ [“1.11 iPod Baseplate”, page 5](#)
- ⇒ [“1.12 External Audio Source Connection”, page 5](#)
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- ⇒ [“1.14 Steering Column Electronic Systems Control Module”, page 6](#)

1.1 Radio System

Radio Systems

- ◆ concert
- ◆ symphony

Sound Systems

- ◆ Standard
- ◆ BOSE

General Information

The radio systems are prepared for satellite radio use or Satellite Radio is installed.

The radio have two tuners with phase diversity and each one has an antenna connection (AM/FM1 and FM2).

Besides switching diversity, phase diversity is the second procedure for reducing reception interference.

At least two antennas with amplifier and a radio with two tuners is required.

If the signal received is interrupted, both signals are digitalized and separated in the tuners in the radio so that the disrupted signals are blocked out as much as possible.

If the reception signal is not disrupted, the radio constantly compares which antenna (amplifier) has the strongest reception. This is then transferred.

In this case, the second tuner checks the frequency band in the background for better reception frequencies for the selected station. If a better signal is found, this tuner switches to reception and the other to the background.

Satellite radio for SDARS is installed in luggage compartment.



Communication with other vehicle systems takes place via the Infotainment CAN-Bus and data bus on board diagnostic interface.

Symphony transport mode, activating/deactivating, refer to [⇒ "2.1.11 Symphony Transport Mode, Activating/Deactivating", page 20](#) .

Troubleshooting and diagnosis takes place with Guided Fault Finding using vehicle diagnosis, testing and information system - VAS 5051- .

Repairs on antenna wires, refer to ⇒ [Electrical Equipment General Information; Rep. Gr. 97; General Information](#) .

Repair to CAN bus lines, refer to ⇒ [Electrical Equipment General Information; Rep. Gr. 97; General Information](#) .

1.2 Sound system

There are three equipment versions.

Sound Systems

- ◆ Base
- ◆ Standard
- ◆ BOSE

The individual speakers are installed in the doors, instrument panel and rear side trim.

1.3 Antenna System, Coupe

The antenna system includes the antennas inside the rear lid and the roof antenna.

System with phase diversity (radio)

- ◆ Antenna amplifier (AM/FM1/Central Locking System) on the top of the rear lid on the right side
- ◆ Antenna amplifier 4 (digital audio broadcasting) at the top of the rear lid on the left side
- ◆ Antenna amplifier 2 (FM2) at the bottom of the rear lid on the right side
- ◆ Radio, telephone, navigation system antenna (GPS/GSM/Satellite) roof antenna

System with switch diversity (radio/navigation system)

- ◆ Antenna amplifier (AM/FM1/Central Locking System) on the top of the rear lid on the right side
- ◆ Antenna amplifier 4 (digital audio broadcasting/TV3) at the top of the rear lid on the left side
- ◆ Antenna amplifier 2 (FM2/high frequency/intermediate frequency/TV1/TV2) at the bottom of the rear lid on the right side
- ◆ Radio, telephone, navigation system antenna (GPS/GSM/Satellite) roof antenna

Repairs on antenna wires, refer to ⇒ [Electrical Equipment General Information; Rep. Gr. 97; General Information](#) .

1.4 Antenna System, Roadster

The antenna system includes the antennas inside the windshield, the antennas behind the rear lid end piece and mast antenna.

System with phase diversity (radio)

- ◆ Antenna amplifier (AM/FM1/central locking frequency), left rear mast antenna base
- ◆ Antenna amplifier 2 (FM2) behind the rear bumper on the right side
- ◆ Satellite antenna (satellite) on rear lid
- ◆ Navigation system antenna (GPS) behind front interior lamp on the roof frame
- ◆ Telephone antenna (GPS) behind front interior lamp on the roof frame

System with switch diversity (radio/navigation system)

- ◆ Antenna amplifier (AM/FM1/central locking frequency), left rear mast antenna base
- ◆ Antenna amplifier 2 (FM2/TV1/HF/ZF) behind the rear bumper on the right side
- ◆ TV antenna 2 (TV2) on the left A-pillar
- ◆ TV antenna 3 (TV3) on the left A-pillar
- ◆ Antenna selection control module (HF/ZF) inside the luggage compartment on the front separator
- ◆ Satellite antenna (satellite) on rear lid
- ◆ Navigation System Antenna (GPS) behind front interior lamp on the roof frame
- ◆ Telephone antenna (GPS) behind front interior lamp on the roof frame

The satellite radio applies only to the USA.

Repairs on antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

1.5 Telephone Systems

Mobile phone prep

- ◆ Telephone transceiver
- ◆ Radio, telephone, navigation system antenna/telephone antenna (through MY 2008)
- ◆ Telephone baseplate (through MY 2008)
- ◆ Microphone unit in front roof module

The telephone transceiver is equipped with a Bluetooth Antenna. Using this, all cellular telephones approved by Audi can be operated with the Bluetooth interface with the cellular telephone preparation installed in the vehicle.

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It is not possible to connect other devices via Bluetooth, for example headset, laptop, PDA, or similar.

Fault finding is performed via Guided Fault Finding, refer to ⇒ Vehicle diagnosis, testing and information system VAS 5051.

Repairs on antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .



1.6 RNS-E Navigation System

Description

The RNS-E navigation system is an enhancement of the navigation system II-D. The unit has MMI operation. A DVD is used as the navigation CD.

Screen folds away. DVD drive and two MP3 card readers are located behind.

Beside the navigation system, the RNS-E include a radio, two MP3 card readers and a connection for a CD changer/connection for an external audio source and the satellite radio . The DVD drive can play music CDs.

Error messages on screen

⇒ ["2.6.3 Error Messages On Screen", page 46](#)

Fault finding is performed via Guided Fault Finding, refer to ⇒ Vehicle diagnosis, testing and information system VAS 5051.

Repairs on antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

1.7 Navigation System RNS-JP4

The JP4 navigation system includes the after market radio/navigation system.

All connections necessary for the navigation unit are present in the vehicle. Sound system and antennas are installed.

Only the navigation unit (RNS) is installed in service.

Repairs on antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

1.8 Navigation System RNS JP5

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The JP5 navigation system includes the after market radio/navigation system.

All connections necessary for the navigation unit are present in the vehicle. The Sound system and the antenna are installed as well as the connections for the microphone unit (in front roof module) and TV card reader.

Only the navigation unit (RNS) is installed in service.

Repairing antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

1.9 RNS Low Navigation System

Description

RNS low is the Low variant of the RNS-E.

The unit has MMI operation. A CD is used as the navigation CD.

In addition to the navigation system, RNS Low includes a radio/CD player and connection for a CD changer/external audio source connection and a cellular telephone. The CD drive can play music CDs.

Fault finding is performed via Guided Fault Finding. Refer to
⇒ Vehicle diagnosis, testing and information system VAS 5051.

Repairs on antenna wires, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .

1.10 CD Changer

The CD changer is installed in the glove compartment as optional equipment.

It is connected via satellite radio.

Fault finding is performed using radio Guided Fault Finding
in⇒ Vehicle diagnosis, testing and information system VAS 5051.
The wiring connection is checked. Malfunction messages result.

1.11 iPod Baseplate

The iPod baseplate is installed in the glove compartment instead of the CD changer.

The iPod baseplate connected directly to the radio just like the CD changer.

It is connected via satellite radio.

Fault finding is performed using radio Guided Fault Finding
in⇒ Vehicle diagnosis, testing and information system VAS 5051.
The wiring connection is checked. Malfunction messages result.

1.12 External Audio Source Connection

There are several versions of external audio source connections.

- ◆ AMI (Audi Music Interface) installed inside the glove compartment
- ◆ The AUX IN socket is installed in the center console storage compartment.

Either an AMI or AUX IN socket is installed.

Different external audio sources can be connected to the external audio source connection :

- ◆ iPod
- ◆ MP3-Player
- ◆ USB Stick

Suitable adapter cables are needed. Refer to Owner's Manual.

Fault finding is performed via Guided Fault Finding. Refer to
⇒ Vehicle diagnosis, testing and information system VAS 5051.

1.13 Multifunction Steering Wheel

Description

Buttons are integrated in the steering wheel for easier operation of the radio, cellular telephone, navigation and CD changer.

With Tiptronic (automatic transmission), additional switches are installed.

The electronics integrated in the multi-function buttons take over signal processing from the Tiptronic buttons/switches and transfer signals via the LIN data bus (single wire bus) to the steering column electronic systems control module. The conversion to CAN BUS (comfort) takes place there.



The individual button blocks and the Tiptronic switch can be replaced separately.

Fault finding is performed via Guided Fault Finding. Refer to ⇒ Vehicle diagnosis, testing and information system VAS 5051.

1.14 Steering Column Electronic Systems Control Module

Description

The steering column electronic systems control module is a part of the steering column switch module. The steering column switch module consists of:

- ◆ Left and right steering column switch
- ◆ Airbag spiral spring
- ◆ Steering angle sensor
- ◆ Ignition/starter switch
- ◆ Steering column electronic systems control module

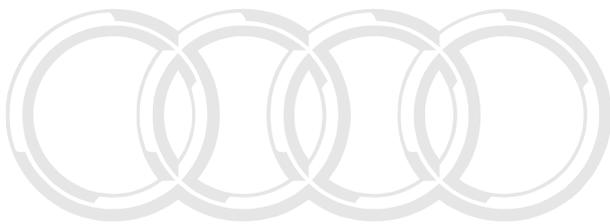
The steering column electronic systems control module exchanges data between vehicle control modules (e.g. vehicle electrical system control module) and steering column modules (e.g. steering column switch) and steering wheel modules (e.g. airbag).

In addition, multi-function steering wheel button signals are processed and relayed via CAN BUS.

Fault finding is performed via Guided Fault Finding. Refer to ⇒ Vehicle diagnosis, testing and information system VAS 5051.

Steering column switch module, removing and installing, refer to ⇒ Electrical System; Rep. Gr. 94 ; Description and Operation .

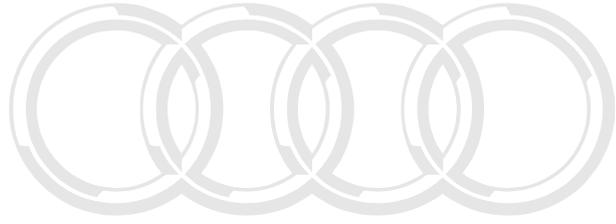
Repair to CAN bus lines, refer to ⇒ Electrical Equipment General Information; Rep. Gr. 97 ; General Information .



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2 Description and Operation

⇒ [“2.1 Radio System”, page 8](#)

⇒ [“2.2 Sound System”, page 21](#)

⇒ [“2.3 Antenna System, Coupe”, page 29](#)

⇒ [“2.4 Antenna System, Roadster”, page 33](#)

⇒ [“2.5 Telephone System”, page 36](#)

⇒ [“2.6 RNS-E Navigation System”, page 45](#)

⇒ [“2.7 Navigation System RNS-JP4”, page 55](#)

⇒ [“2.8 Navigation System RNS JP5”, page 62](#)

⇒ [“2.9 RNS low navigation system”, page 70](#)

⇒ [“2.10 CD Changer Harness Connectors”, page 80](#)

⇒ [“2.11 iPod Baseplate, Connections”, page 81](#)

⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)

⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#)

⇒ [“2.14 Multi-Function Steering Wheel, Overview”, page 82](#)

⇒ [“2.15 Steering Column Switch Module, Overview”, page 83](#)

⇒ [“2.16 Steering Column Electronic Systems Control Module Connectors”, page 84](#)

2.1 Radio System

⇒ [“2.1.1 Radio System Assembly Overview”, page 8](#)

⇒ [“2.1.2 Coupe Radio System, Overview”, page 9](#)

⇒ [“2.1.3 Roadster Radio System, Overview”, page 10](#)

⇒ [“2.1.4 Radio, Harness Connectors”, page 11](#)

⇒ [“2.1.5 Satellite Radio Connectors, Through 10/06”, page 13](#)

⇒ [“2.1.6 Satellite Radio Connectors, From 11/06”, page 14](#)

⇒ [“2.1.7 Coupe Component Locations, General Overview”, page 15](#)

⇒ [“2.1.8 Roadster Component Locations, General Overview”, page 17](#)

⇒ [“2.1.9 Radio Preparation”, page 19](#)

⇒ [“2.1.10 Satellite Radio, Enabling”, page 19](#)

⇒ [“2.1.11 Symphony Transport Mode, Activating/Deactivating”, page 20](#)

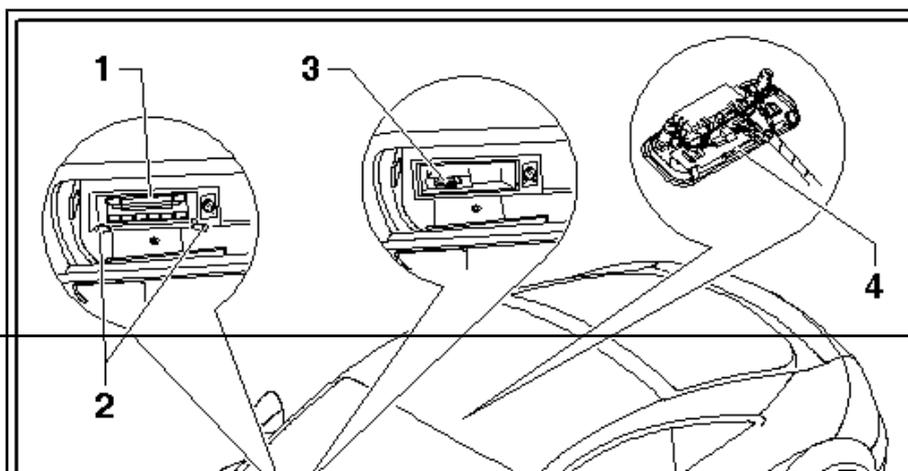
2.1.1 Radio System Assembly Overview

1 - CD Changer -R41-

2 - Radio Removal Tool - T10057-

3 - iPod Baseplate -R192-

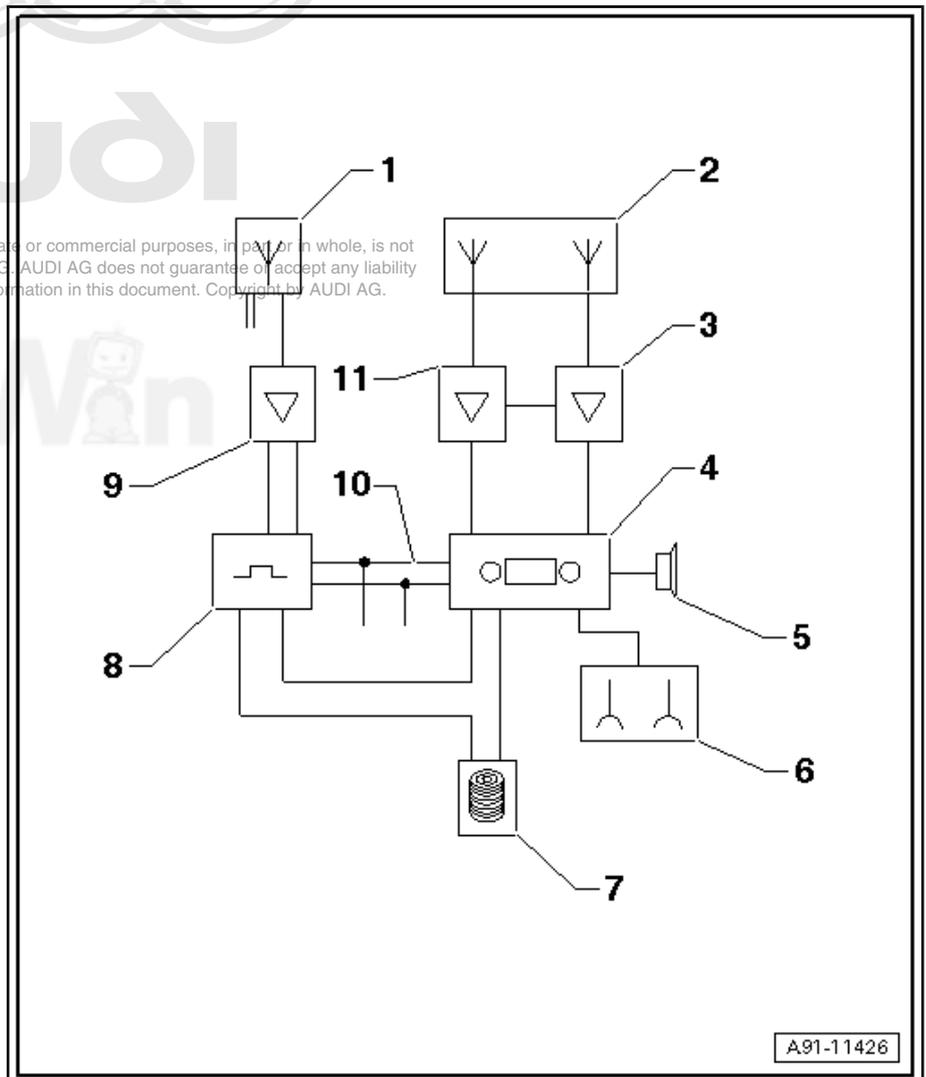
4 - Front Interior Light -W1- with Microphone Unit (in front)



- roof module) -R164-
- 5 - Satellite Radio -R146-
- 6 - External Audio Source Connection -R199-
- 7 - Screw
- 1 Nm
- 8 - Radio -R-
- 9 - Radio Removal Tool -T10057-

2.1.2 Coupe Radio System, Overview

- 1 - Radio, Telephone, Navigation System Antenna -R52- (Sat/GPS/GSM) Roof Antenna
- 2 - Rear window antennas
- 3 - Antenna Amplifier 2 -R111- On Lower Right Area of Rear Lid
- 4 - Radio -R- In Upper Center Console
- 5 - Sound Systems
- 6 - External Audio Source Connection -R199- In The Center Console Storage Compartment
- 7 - CD Changer -R41- / iPod Baseplate -R192- Inside The Glove Compartment
- 8 - Satellite Radio -R146- Inside The Luggage Compartment On The Left Side Under The Luggage Compartment Floor Covering
- 9 - Antenna Splitter -R87- Inside The Luggage Compartment On The Left Side Under The Luggage Compartment Floor Covering (through 10.2006)
- 10 - CAN-BUS (Infotainment)
- 11 - Antenna Amplifier -R24- On Upper Right Side Of Rear Lid



2.1.3 Roadster Radio System, Overview

1 - Satellite Antenna -R170- (Sat) On Rear Lid

2 - Radio Antenna 2 -R93- (FM2) Behind Right Side Of Rear Lid

3 - Antenna -R11- (AM/FM1) Left Rear Mast Antenna

4 - Antenna Amplifier -R24- Left Rear Mast Antenna Base

5 - Radio -R- In Upper Center Console

6 - Sound Systems

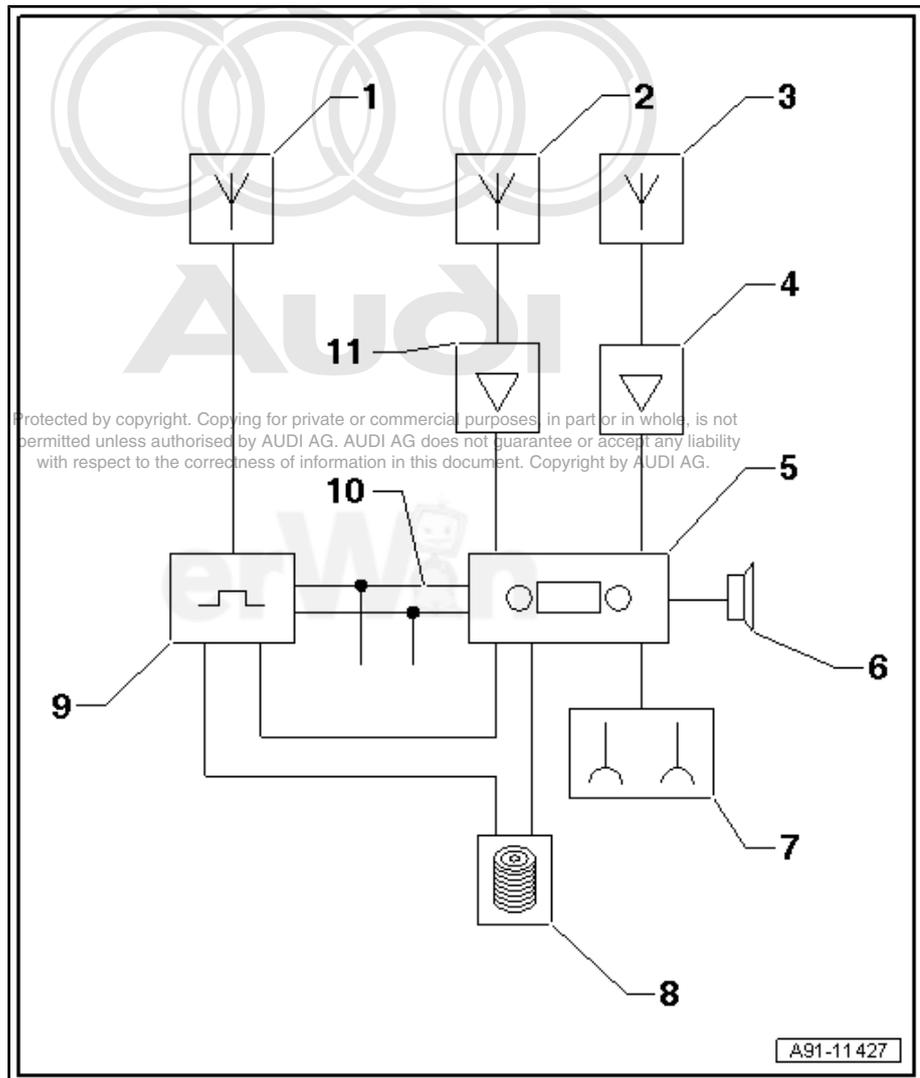
7 - External Audio Source Connection -R199- In The Center Console Storage Compartment

8 - CD Changer -R41- / iPod Baseplate -R192- Inside The Glove Compartment

9 - Satellite radio -R146- Inside The Luggage Compartment On The Left Side Under The Luggage Compartment Floor Covering

10 - CAN-BUS (Infotainment)

11 - Antenna Amplifier 2 - R111- Behind Right Side Of Rear Lid



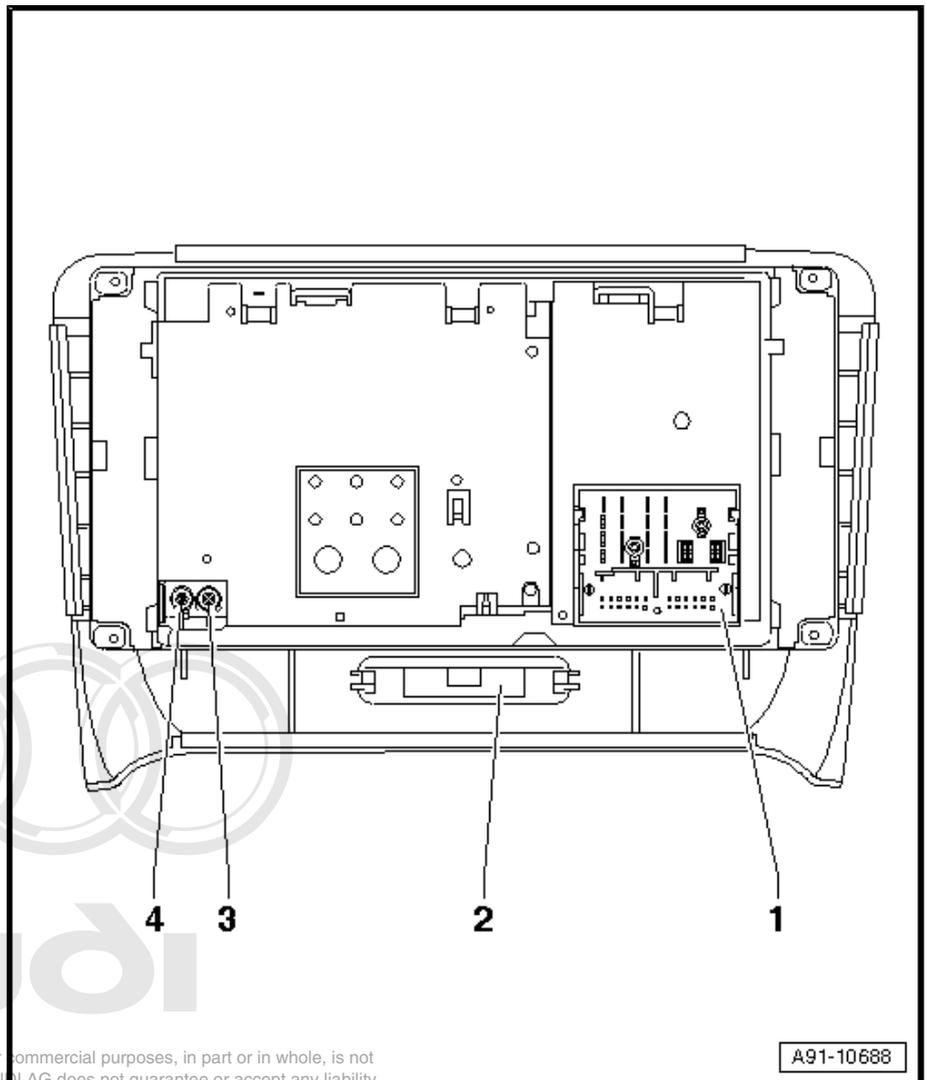
2.1.4 Radio, Harness Connectors

1 - Connection Block With Four Multi-Pin Connectors And A Fuse For Unit

2 - Front Passenger's Airbag Disabled Indicator Lamp - K145-

3 - AM/FM1 Connection (White) From Antenna Amplifier -R24-

4 - FM2 (white) Connection From Antenna Amplifier 2 - R111-



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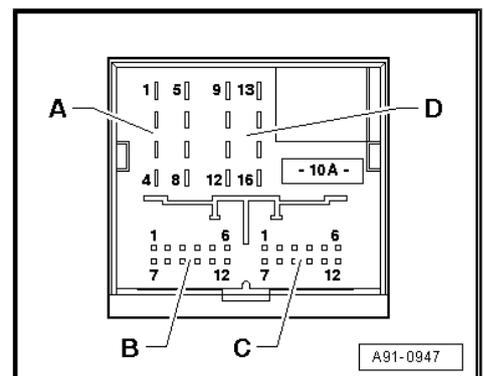
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Note

Unlisted connector terminals are not assigned.

A - 8-pin Multi-pin Connector (T8b) Brown

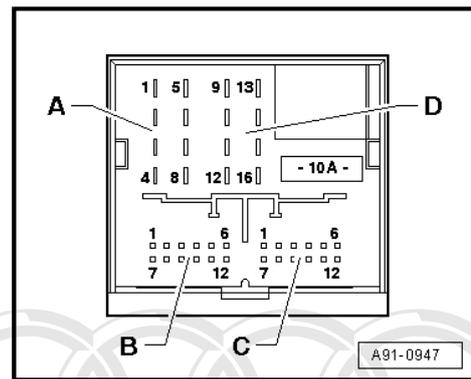
- 2 - Right front speaker (+) (only on base sound system)
- 3 - Left front speaker (+) (only on base sound system)
- 6 - Right front speaker (-) (only on base sound system)
- 7 - Left front speaker (-) (only on base sound system)



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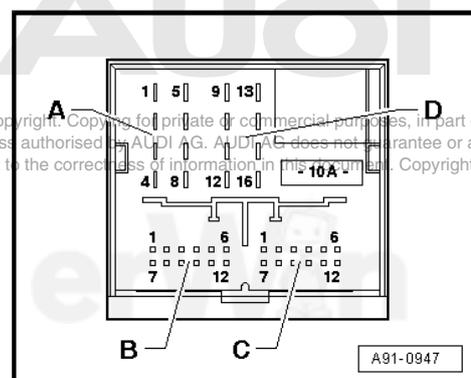
B - Multi-pin Connector, 12-pin (T12f) Blue

- 1 - Left LF-In from the external audio source connection
- 2 - Signal ground to CD changer/satellite radio
- 3 - LF-In ground from the external audio source connection
- 4 - Permanent positive to CD changer
- 5 - BOSE coding to ground (only with BOSE)
- 6 - Data out to the CD changer
- 7 - Right LF-In from the external audio source connection
- 8 - Left signal from CD changer/satellite radio
- 9 - Right signal from CD changer/satellite radio
- 10 - Positive switched to CD changer
- 11 - Data in from the CD changer
- 12 - CLK from the CD changer



C - Green 12-pin Multi-pin Connector (T12g)

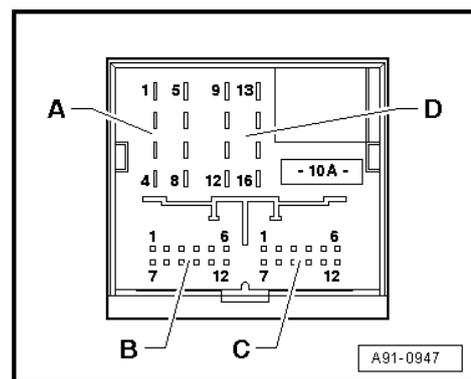
- 1 - Speed signal (not used)
- 3 - Left front signal to digital sound system control module
- 5 - Left rear signal to digital sound system control module
- 6 - LF (-) from telephone transceiver
- 7 - K diagnostic (not used)
- 8 - Signal ground to digital sound system control module
- 9 - Right front signal to digital sound system control module
- 10 - Audio Pilot in/out (not used)
- 11 - Right rear signal to digital sound system control module
- 12 - LF (+) from telephone transceiver



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D - 8-pin Multi-pin Connector (T8a) Black

- 9 - CAN-Bus High (Infotainment)
- 10 - CAN-Bus Low (Infotainment)
- 11 - LF mute
- 12 - Terminal 31
- 13 - Positive switched to digital sound system control module
- 14 - Anti-theft warning system (not used)
- 15 - Terminal 30
- 16 - Permanent positive connected with PIN 15 (anti-theft warning system)



2.1.5 Satellite Radio Connectors, Through 10/06

Satellite Radio

- A - Black 8-pin connector (T8n)
- B - Black 8-pin connector (T8m)
- C - Ter connection (brown) from antenna splitter
- D - Sat connection (green) from antenna splitter



Note

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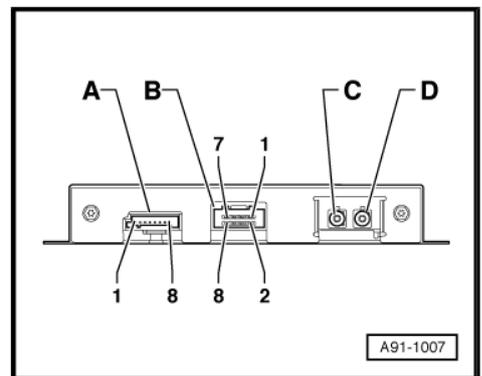
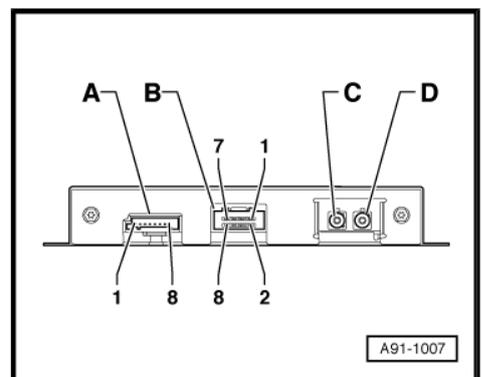
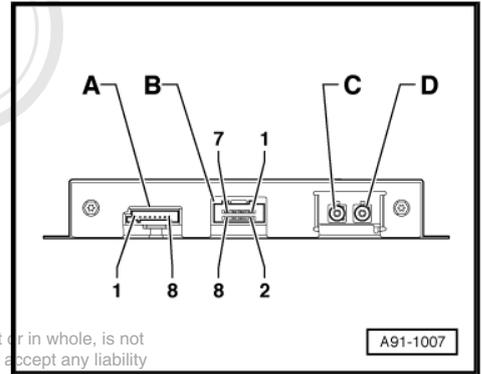
Unlisted connector terminals are not assigned.

A - 8-pin Connector (T8n) Black

- 1 - CAN-Bus High (Infotainment)
- 2 - CAN-Bus Low (Infotainment)
- 3 - Left signal from CD changer/iPod baseplate
- 4 - Right signal from CD changer/iPod baseplate
- 5 - Signal ground to radio/navigation system with CD drive control module
- 6 - Left signal to radio/navigation system with CD drive control module
- 7 - Right signal to radio/navigation system with CD drive control module
- 8 - Signal ground from CD changer/iPod baseplate

B - 8-pin Multi-pin Connector (T8m) Black

- 1 - Terminal 31
- 2 - Terminal 30



2.1.6 Satellite Radio Connectors, From 11/06

Satellite Radio

A - Black 8-pin connector (T8n)

B - Black 8-pin connector (T8m)

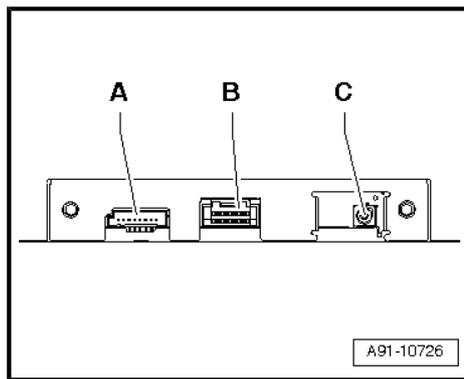
C - Sat connection (green) from radio, telephone, navigation system antenna Coupe

- Sat connection (green) on the satellite antenna Roadster



Note

Unlisted connector terminals are not assigned.



A - 8-pin Connector (T8n) Black

1 - CAN-Bus High (Infotainment)

2 - CAN-Bus Low (Infotainment)

3 - Left signal from CD changer/iPod baseplate

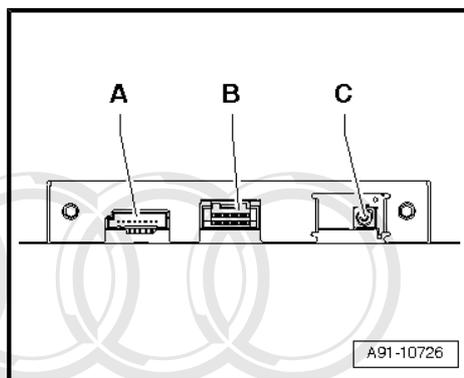
4 - Right signal from CD changer/iPod baseplate

5 - Signal ground to radio/navigation system with CD drive control module

6 - Left signal to radio/navigation system with CD drive control module

7 - Right signal to radio/navigation system with CD drive control module

8 - Signal ground from CD changer/iPod baseplate

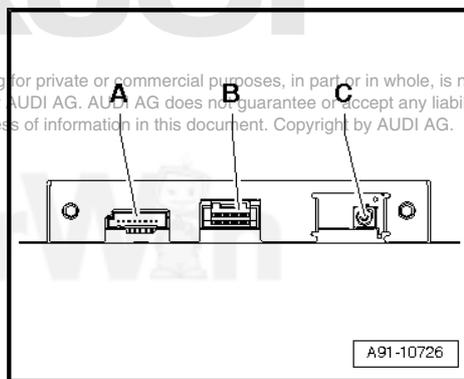


B - 8-pin Multi-pin Connector (T8m) Black

1 - Terminal 31

2 - Terminal 30

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2.1.7 Coupe Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

2 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

3 - Microphone Unit In Front Roof Module -R164-

- In front interior light
- Overview, refer to ⇒ [“2.2.6 Front Roof Module Microphone Unit Overview”, page 24](#)
- Removing and installing, refer to ⇒ [“4.4.12 Microphone Unit in Front Roof Module”, page 94](#)

4 - Antenna Amplifier -R24-

- On upper right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

5 - Radio, Telephone, Navigation System Antenna -R52-

- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

6 - Antenna Amplifier 2 -R111-

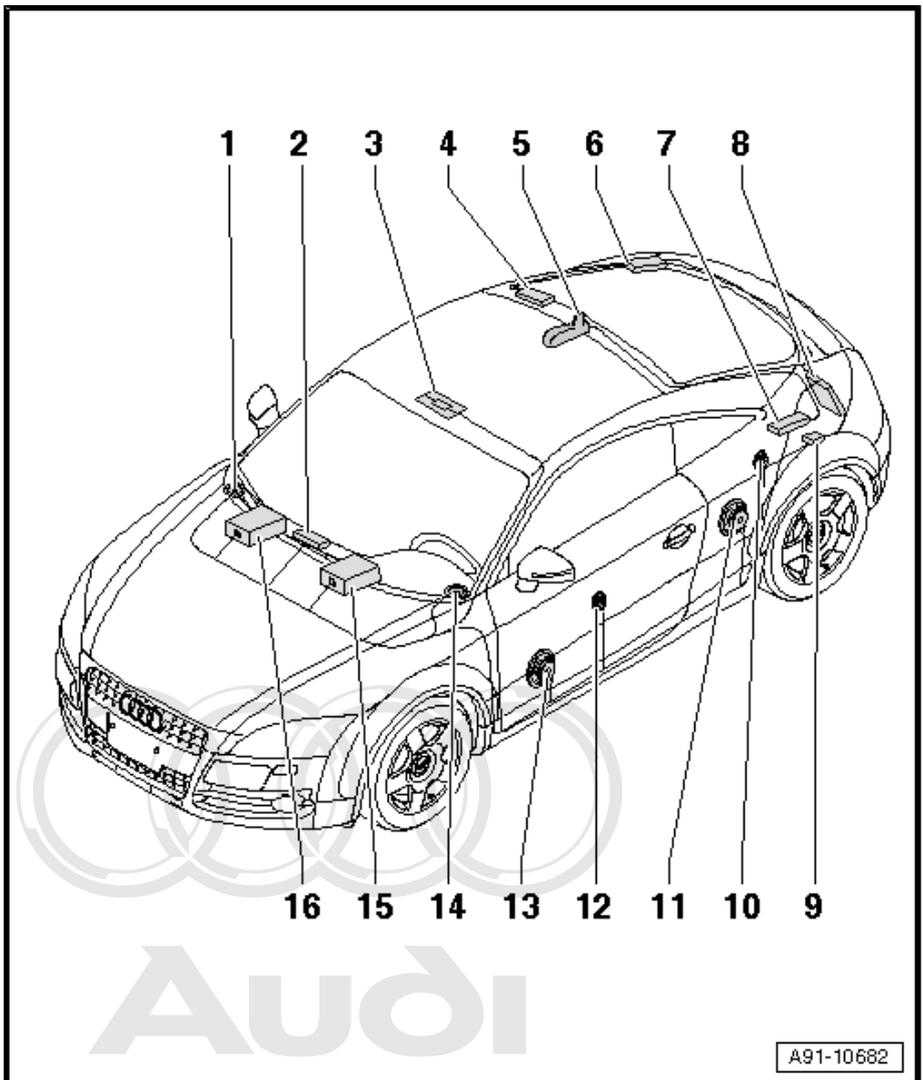
- On lower right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

7 - Satellite Radio -R146-

- Inside the luggage compartment on the left side under the luggage compartment floor covering
- Connections through 10/06, refer to ⇒ [“2.1.5 Satellite Radio Connectors, Through 10/06”, page 13](#)
- Connections from 11/06, refer to ⇒ [“2.1.6 Satellite Radio Connectors, From 11/06”, page 14](#)
- Removing and installing, activating, refer to ⇒ [“4.3 Satellite Radio”, page 88](#)

8 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)



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- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

9 - Antenna Splitter -R87-

- Through 10/06
- Inside the luggage compartment on the left side under the luggage compartment floor covering
- Removing and installing, refer to ⇒ [“4.5.6 Antenna Splitter”, page 99](#)

10 - Left Rear Treble Speaker -R14- / Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

11 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- Behind rear side trim
- Removing and installing, refer to ⇒ [“4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe”, page 91](#)

- Center speaker -R148-

- Behind the left rear side trim panel
- Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)

12 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

13 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

14 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

15 - Radio -R-

- In the top of the center console
- Connectors. Refer to, refer to ⇒ [“2.1.4 Radio, Harness Connectors”, page 11](#) .
- Removing and installing, refer to ⇒ [“4.1 Radio”, page 86](#)
- Symphony transport mode, activating/deactivating, refer to ⇒ [“2.1.11 Symphony Transport Mode, Activating/Deactivating”, page 20](#)

16 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#) .
- Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
- Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)

- External audio source connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source) refer to ⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
- AUX IN Connectors, refer to ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
- Removing and installing (connection for an external audio source) refer to ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)

- ❑ AUX IN, Removing and Installing, refer to
 ⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

2.1.8 Roadster Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- ❑ In right of instrument panel
- ❑ Removing and installing
 ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

2 - Center Mid/High Range Loudspeaker -R158-

- ❑ In the center of the instrument panel
- ❑ Removing and installing, refer to
 ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

3 - Microphone Unit In Front Roof Module -R164-

- ❑ In front interior light
- ❑ Overview, refer to
 ⇒ [“2.2.6 Front Roof Module Microphone Unit Overview”, page 24](#)
- ❑ Removing and installing, refer to
 ⇒ [“4.4.12 Microphone Unit in Front Roof Module”, page 94](#)

4 - Right Rear Treble Speaker -R16-

- ❑ In upper right side trim
- ❑ Removing and installing, refer to
 ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

5 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- ❑ In left and right rear wall
- ❑ Removing and installing, refer to ⇒ [“4.4.5 Left Rear Mid/Low Range Speaker, Roadster”, page 91](#)

6 - Antenna Amplifier 2 -R111-

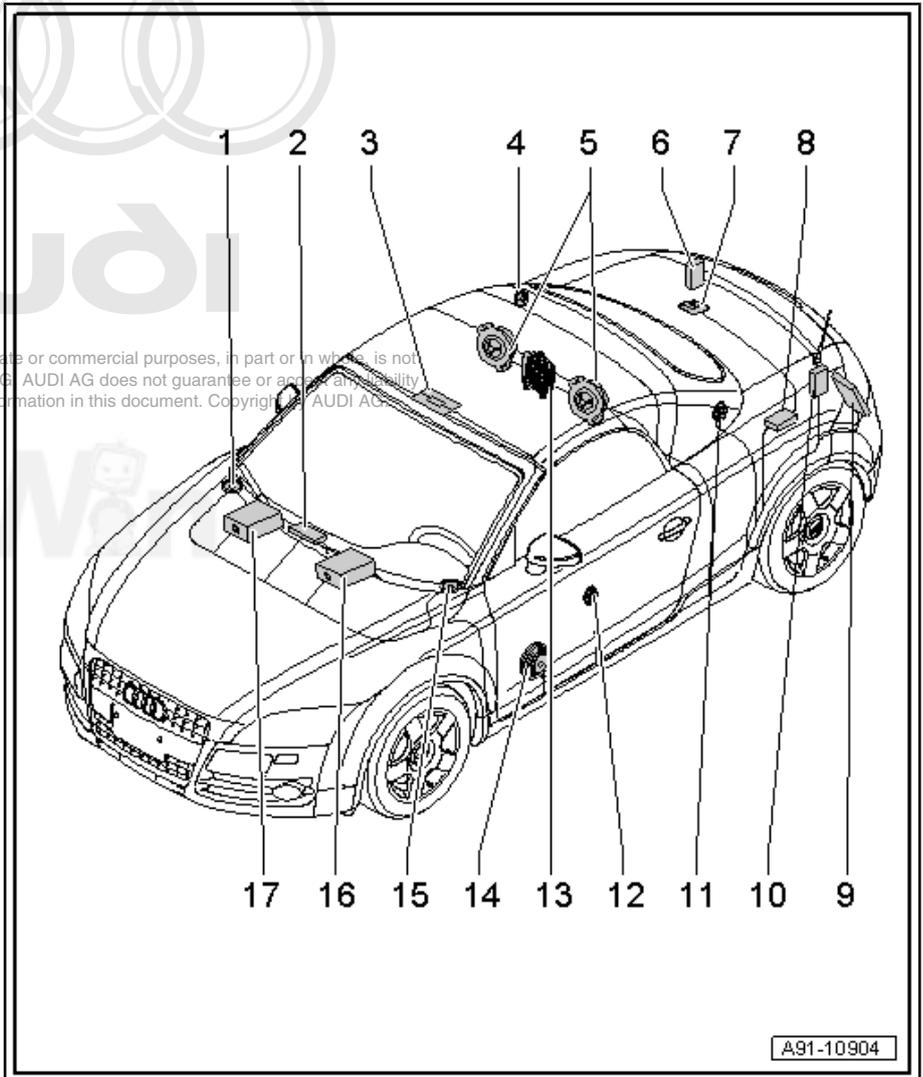
- ❑ Behind right side of rear lid
- ❑ Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

7 - Satellite Antenna -R170-

- ❑ On rear lid
- ❑ Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

8 - Satellite Radio -R146-

- ❑ Inside the luggage compartment on the left side under the luggage compartment floor covering
- ❑ Connections through 10/06, refer to ⇒ [“2.1.5 Satellite Radio Connectors, Through 10/06”, page 13](#)
- ❑ Connections from 11/06, refer to ⇒ [“2.1.6 Satellite Radio Connectors, From 11/06”, page 14](#)

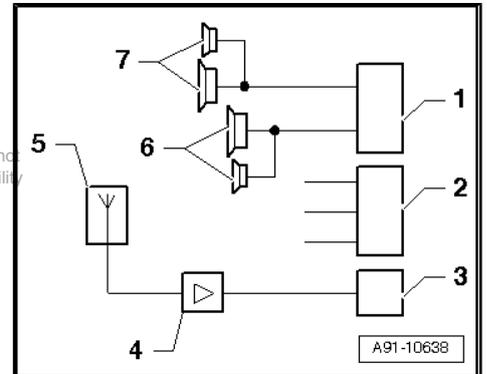


- Removing and installing, activating, refer to ⇒ [“4.3 Satellite Radio”, page 88](#)
- 9 - Digital Sound System Control Module -J525-**
 - Behind the luggage compartment left side trim
 - Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
 - Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
 - Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
 - BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
 - BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)
- 10 - Antenna Amplifier -R24-**
 - left rear mast antenna base
 - Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)
- 11 - Left Rear Treble Speaker -R14-**
 - In upper right side trim
 - Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)
- 12 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-**
 - In center of doors
 - Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)
- 13 - Center speaker -R148-**
 - In center of rear wall
 - Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)
- 14 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-**
 - In bottom of doors
 - Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)
- 15 - Left Front Treble Speaker -R20-**
 - In left of instrument panel
 - Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)
- 16 - Radio -R-**
 - In the top of the center console
 - Connectors, refer to ⇒ [“2.1.4 Radio, Harness Connectors”, page 11](#) .
 - Removing and installing, refer to ⇒ [“4.1 Radio”, page 86](#)
 - symphony transport mode, activating/deactivating, refer to ⇒ [“2.1.11 Symphony Transport Mode, Activating/Deactivating”, page 20](#)
- 17 - CD Changer -R41-**
 - In the glove compartment
 - Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#)
 - Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)
- iPod Baseplate -R192-**
 - In the glove compartment
 - Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
 - Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)
- External audio source connection -R199-**
 - Inside the glove compartment / center console
 - Connectors (connection for an external audio source) refer to ⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
 - AUX IN Connectors, refer to ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .

- ❑ Removing and installing (connection for an external audio source) refer to
 ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)
- ❑ AUX IN, Removing and Installing, refer to
 ⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

2.1.9 Radio Preparation

- 1 - Speaker connector (T8d) brown
- 2 - Voltage supply connector (T8c) black
- 3 - Antenna connection (AM/FM1) for the radio
- 4 - Antenna amplifier on upper right side of rear lid (Coupe)
 - Antenna amplifier left rear mast antenna base (Roadster)
- 5 - Rear window antenna 1 AM/FM1 (Coupe)
 - Antenna (AM/FM1) mast antenna (Roadster)
- 6 - left front speaker
- 7 - right front speaker



2.1.10 Satellite Radio, Enabling

When using for first time or when replacing satellite radio tuner, it must be enabled (activated) by the provider (XM or Sirius).

The subscription and application for activation can coincide with submission of all necessary data (US postal address, credit card number, radio ID (XM) or SID (Sirius)) to the provider's call center.

Only SIRIUS:

SIRIUS sends the activation sequence 6 times within the first hour after apply for the activation. If no successful activation results, another activation sequence must be requested at the SIRIUS call center.

Requirements

- ◆ Customer has subscribed to XM or Sirius
- ◆ Satellite radio is installed and connected
- ◆ radio/navigation system with CD drive control module is adapted/coded accordingly
- ◆ Ignition switched on

Procedure

- Switch on radio/navigation system with CD drive control module and select satellite radio reception range.
- Attempt to receive free channels in XM (e.g. channel 1) or Sirius band (only channel 184).
- Change location.

If free channels can be received clearly, the activation information sent by the provider (XM or Sirius) can also be received clearly.

A poor reception situation can prevent a successful activation even though activation information is being broadcast. In this case, vehicle location must be changed (an activation is also possible while vehicle is moving). There are e.g. workshops, garages, parking buildings, underground garages, fuel filling stations with extensive roofs and all other parking areas with signal shadows must be avoided.

2.1.11 Symphony Transport Mode, Activating/ Deactivating

Transport mode must be activated before sending every symphony radio.

After activation, the internal CD changer drive is in transport position.

After replacing a symphony, transport mode must be deactivated after installation.

Transport mode, activating

symphony is connected and installed.

- Press station buttons **[3]** and **[5]** and **[TONE]** button at the same time.

After about 5 seconds, TRANSPORT appears on the radio display.

Transport mode, deactivating

symphony is connected and installed.

- Press **[CANCEL]** button.

TRANSPORT display goes out.

Transport mode is deactivated.



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2.2 Sound System

- ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#)
- ⇒ ["2.2.2 Roadster, Assembly Overview", page 22](#)
- ⇒ ["2.2.3 Base Sound System, Overview", page 23](#)
- ⇒ ["2.2.4 Standard Sound System, Overview", page 23](#)
- ⇒ ["2.2.5 BOSE Sound System", page 24](#)
- ⇒ ["2.2.6 Front Roof Module Microphone Unit Overview", page 24](#)
- ⇒ ["2.2.7 Standard Sound System Connectors, Through MY 2008", page 24](#)
- ⇒ ["2.2.8 Standard Sound System Connectors, from MY 2009", page 25](#)
- ⇒ ["2.2.9 BOSE Sound System Connectors", page 27](#)

2.2.1 Coupe, Assembly Overview

1 - Left Front Bass Speaker - R21- / Right Front Bass Speaker -R23-

2 - Screw
 3.5 Nm

3 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

4 - Screw
 2 Nm

5 - Screw
 2 Nm

6 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

7 - Clamp

8 - Digital Sound System Control Module -J525-

9 - Screw
 3 Nm

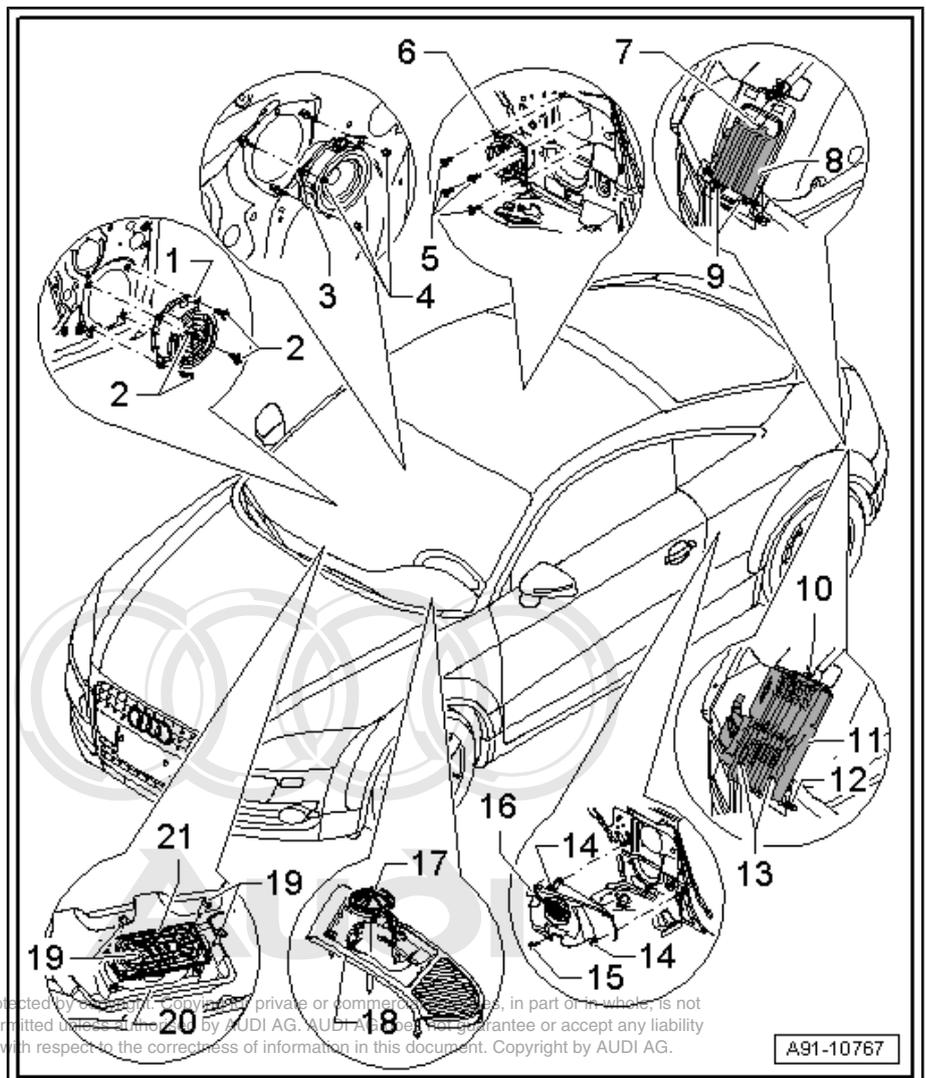
10 - Nut
 5 Nm

11 - Digital Sound System Control Module -J525- BOSE

12 - Nut
 5 Nm

13 - Screw
 3 Nm

14 - Nut
 2 Nm



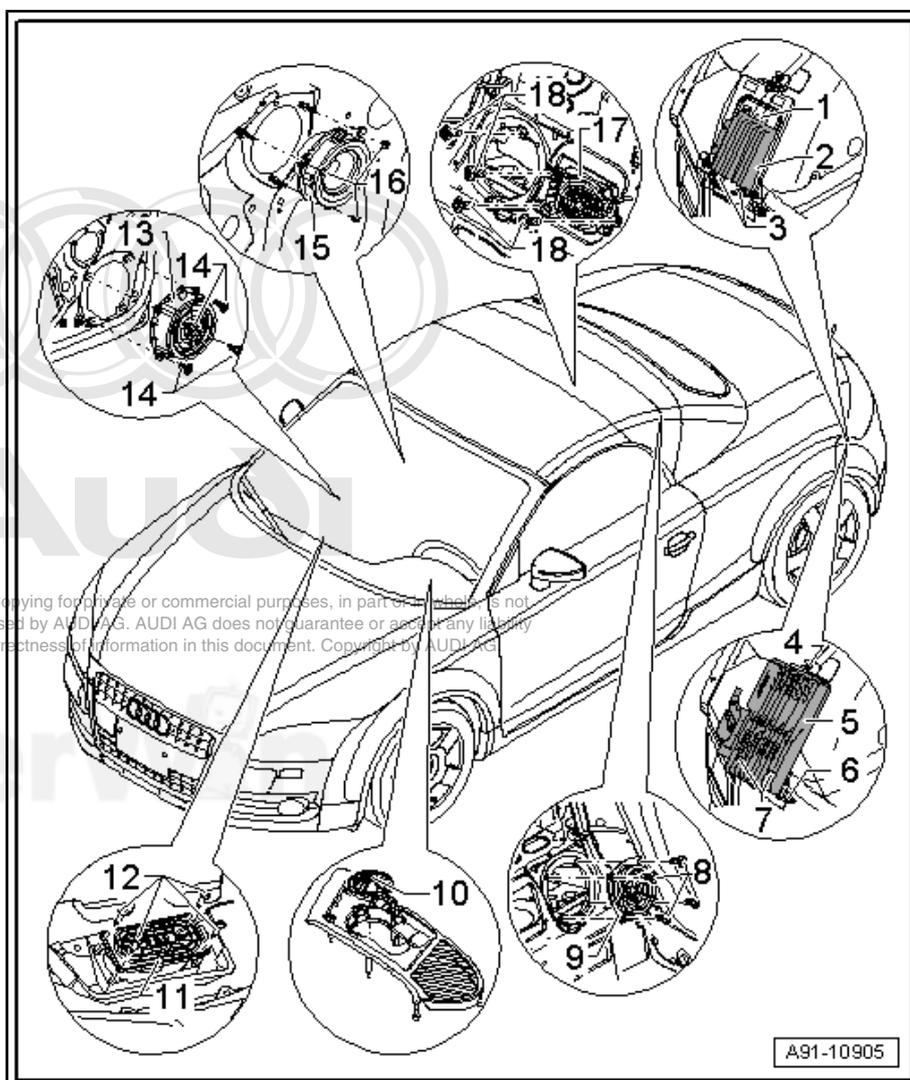
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A91-10767

- 15 - Screw
 - 2 Nm
- 16 - Center Speaker -R148-
- 17 - Left Front Treble Speaker -R20- / Right Front Treble Speaker -R22-
- 18 - Instrument panel
- 19 - Screw
 - 1 Nm
- 20 - Instrument panel
- 21 - Center Mid/High Range Loudspeaker -R158-

2.2.2 Roadster, Assembly Overview

- 1 - Clamp
- 2 - Digital Sound System Control Module -J525-
- 3 - Screw
 - 3 Nm
- 4 - Nut
 - 5 Nm
- 5 - Digital Sound System Control Module -J525- BOSE
- 6 - Nut
 - 5 Nm
- 7 - Screw
 - 3 Nm
- 8 - Screw
 - 2 Nm
- 9 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-
- 10 - Left Front Treble Speaker -R20- / Right Front Treble Speaker -R22-
- 11 - Center Mid/High Range Loudspeaker -R158-
- 12 - Screw
 - 1 Nm
- 13 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-



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A91-10905

- 14 - Screw
 - 3.5 Nm
- 15 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-
- 16 - Screw
 - 2 Nm

17 - Center speaker -R148-

18 - Screw

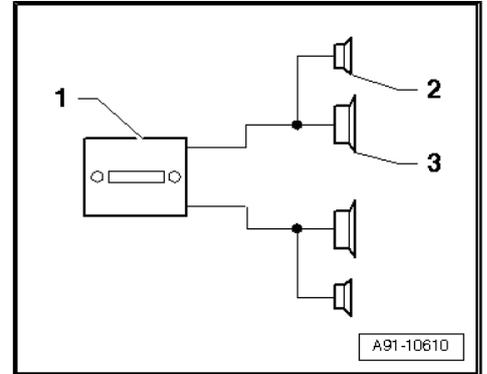
□ 2 Nm

2.2.3 Base Sound System, Overview

1 - radio in upper center console

2 - left front treble speaker/right front treble speaker in left and right front of instrument panel

3 - left front bass speaker/right front bass speaker at bottom of doors



2.2.4 Standard Sound System, Overview

1 - Digital Sound System Control Module -J525- behind the luggage compartment left side trim

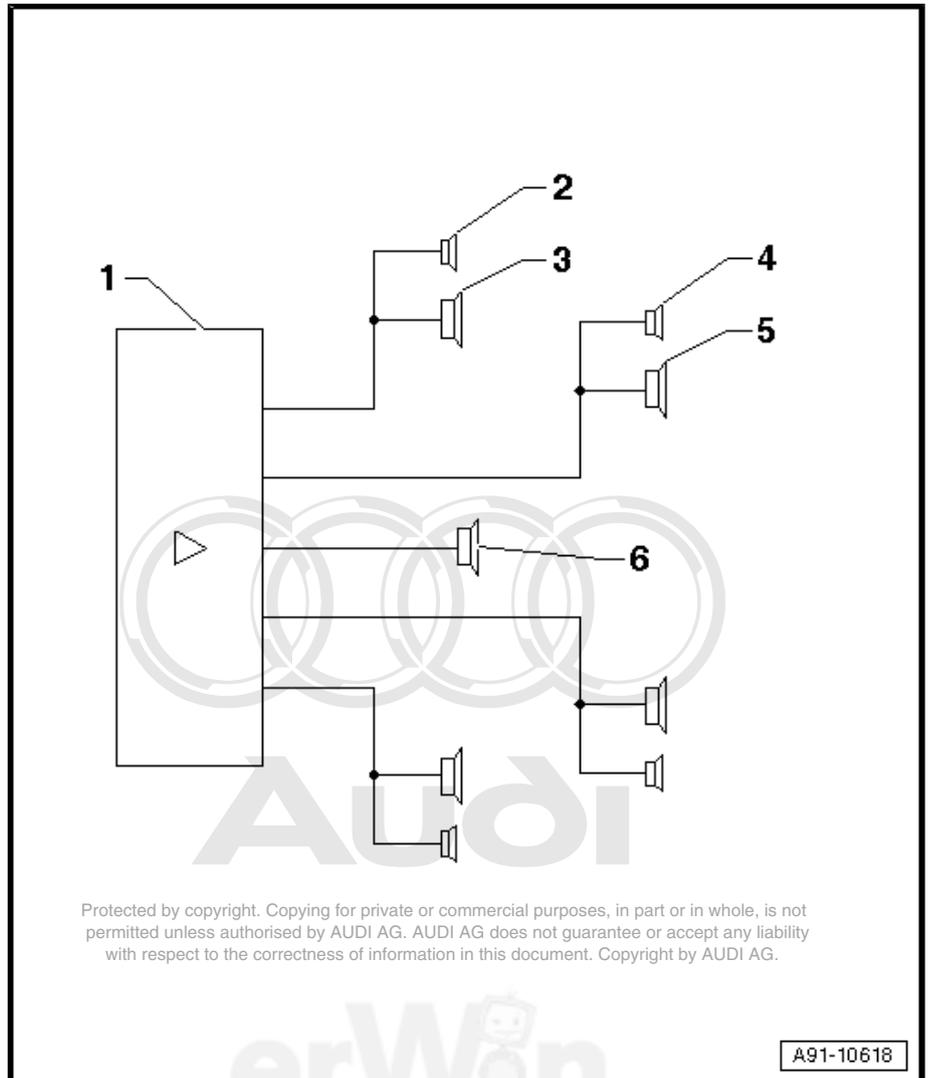
2 - Left Front Treble Speaker - R20- / Right Front Treble Speaker -R22- in left and right front of instrument panel

3 - Left Front Bass Speaker - R21- / Right Front Bass Speaker -R23- at bottom of doors

4 - Left Rear Treble Speaker - R14- / Right Rear Treble Speaker -R16- in upper rear side trim

5 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160- in rear side trim (Coupe)/in rear wall (Roadster)

6 - Center Mid/High Range Speaker -R158- in center instrument panel, front



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2.2.5 BOSE Sound System

1 - Digital Sound System Control Module -J525- behind the luggage compartment left side trim

2 - Left Front Treble Speaker - R20- / Right Front Treble Speaker -R22- in left and right front of instrument panel

3 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104- in doors, center

4 - Left Front Bass Speaker - R21- / Right Front Bass Speaker -R23- at bottom of doors

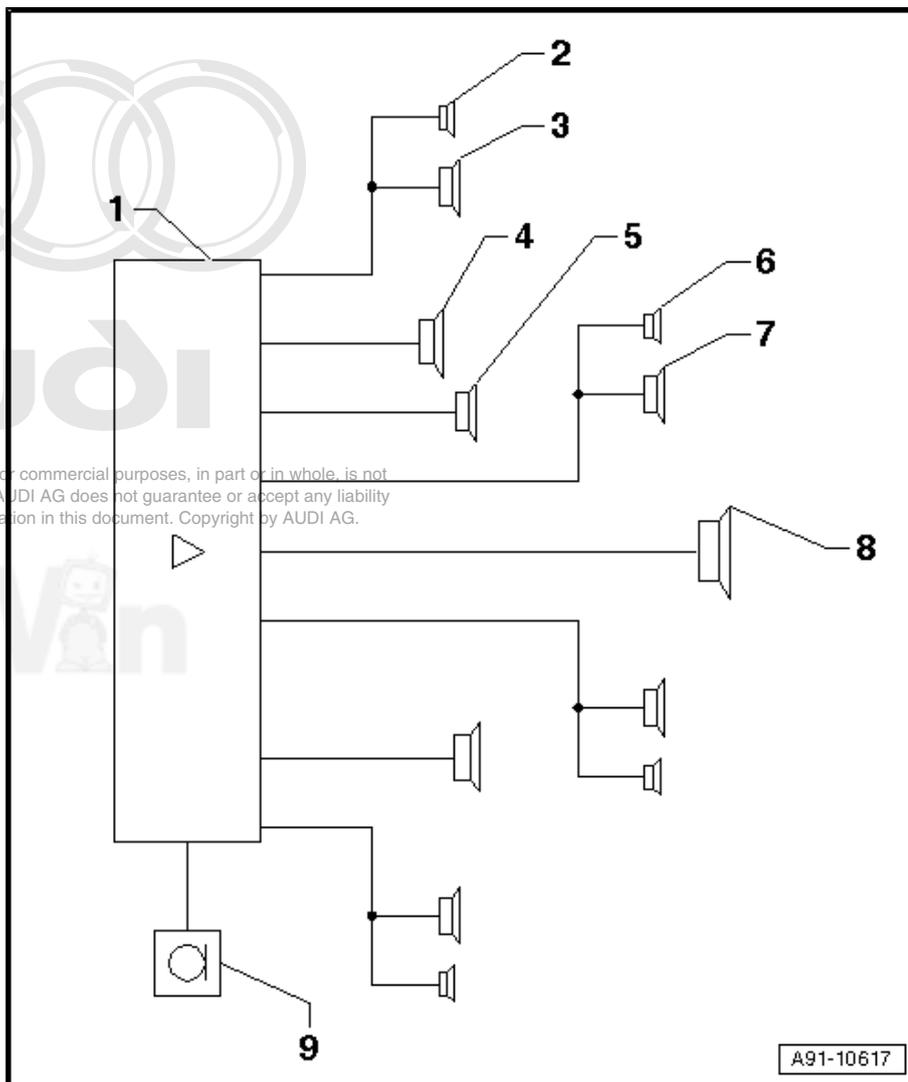
5 - Center Mid/High Range Speaker -R158- in center instrument panel, front

6 - Left Rear Treble Speaker - R14- / Right Rear Treble Speaker -R16- in upper rear side trim

7 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160- in rear side trim (Coupe)/in rear wall (Roadster)

8 - Center Loudspeaker - R148- behind left rear side trim (Coupe)/in center of rear wall (Roadster)

9 - Microphone Unit (in front roof module) -R164- in Front Interior Light -W1-



2.2.6 Front Roof Module Microphone Unit Overview

Microphone unit in front roof module -R164-

1 - Black 4-pin Multi-pin Harness Connector (T4g)

1 - Microphone 1 to telephone transceiver

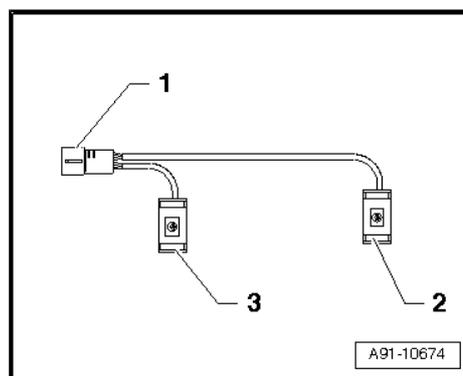
2 - Microphone 1 to Telephone transceiver

3 - Microphone 2 to digital sound system control module

4 - Microphone 2 to digital sound system control module

2 - Microphone 1

3 - Microphone 2



2.2.7 Standard Sound System Connectors, Through MY 2008

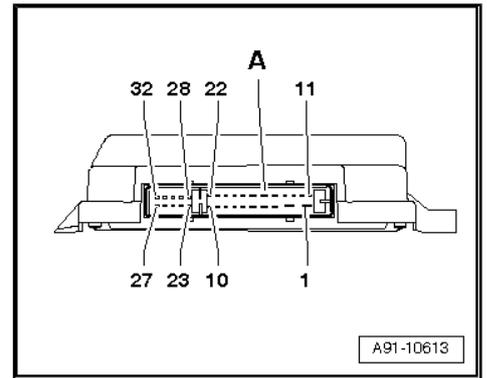
Digital sound system control module

 **Note**

Unlisted connector terminals are not assigned.

A - Black 32-pin Multi-pin Harness Connector (T32a)

- 1 - Terminal 30
- 2 - Terminal 31
- 3 - Loudspeaker, left front (-)
- 4 - Loudspeaker, left front (+)
- 6 - Loudspeaker, left rear (+)
- 7 - Loudspeaker, left rear (-)
- 11 - CAN-bus low (Infotainment)
- 12 - CAN-bus high (Infotainment)
- 14 - Positive switched from radio/navigation system with CD drive control module, radio/navigation display control module
- 15 - Loudspeaker, right front (-)
- 16 - Loudspeaker, right front (+)
- 18 - Loudspeaker, right rear (-)
- 19 - Loudspeaker, right rear (+)
- 20 - Center mid/high range speaker (-)
- 21 - Center mid/high range speaker (+)
- 24 - Left rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 25 - Left rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 26 - Left front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 27 - Left front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 29 - Right rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 30 - Right rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 31 - Right front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 32 - Right front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module



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2.2.8 Standard Sound System Connectors, from MY 2009

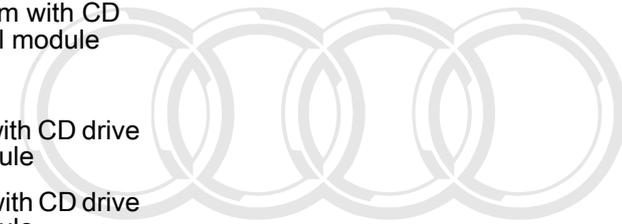
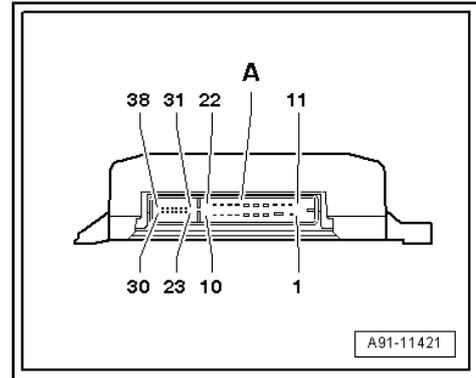
Digital sound system control module

 **Note**

Unlisted connector terminals are not assigned.

A - Black 38-pin Connector (T38)

- 1 - Terminal 31
- 2 - Terminal 30
- 4 - Loudspeaker, right front (+)
- 5 - Loudspeaker, left front (+)
- 7 - Loudspeaker, right rear (-)
- 8 - Loudspeaker, left rear (+)
- 10 - Center mid/high range speaker (-)
- 16 - Loudspeaker, right front (-)
- 17 - Loudspeaker, left front (-)
- 19 - Loudspeaker, right rear (+)
- 20 - Loudspeaker, left rear (-)
- 22 - Center mid/high range speaker (+)
- 23 - CAN-Bus Low (Infotainment)
- 27 - Left rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 28 - Right rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 29 - Left front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 30 - Right front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module
- 31 - CAN-Bus High (Infotainment)
- 34 - Positive switched from radio/navigation system with CD drive control module, radio/navigation display control module
- 35 - Left rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 36 - Right rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 37 - Left front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module
- 38 - Right front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module



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2.2.9 BOSE Sound System Connectors

Digital sound system control module

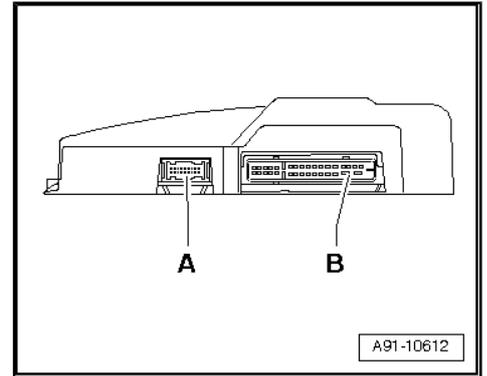
A - Black 18-pin connector (T18a)

B - Black 32-pin multi-pin harness connector (T32a)



Note

Unlisted connector terminals are not assigned.



A - Black 18-pin Multi-pin Harness Connector (T18a)

3 - Left front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module

4 - Left front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module

5 - Left rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module

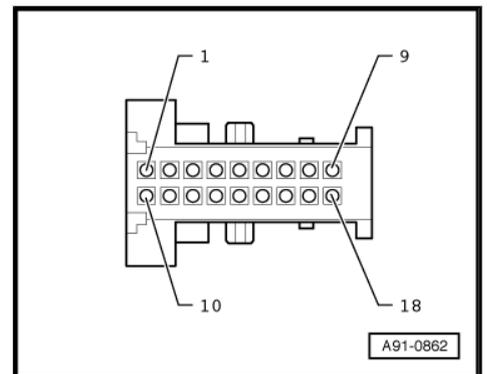
6 - Left rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module

11 - Right front signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module

12 - Right front signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module

13 - Right rear signal (+) from radio/navigation system with CD drive control module, radio/navigation display control module

14 - Right rear signal (-) from radio/navigation system with CD drive control module, radio/navigation display control module



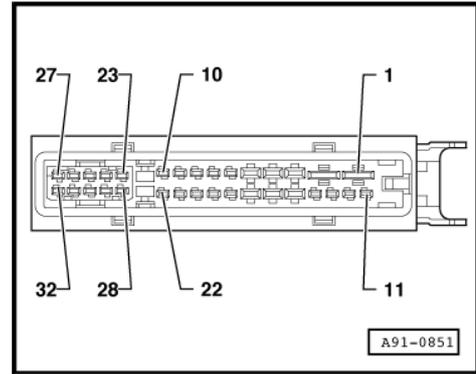
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B - Black 32-pin Multi-pin Harness Connector (T32a)

- 1 - Terminal 30
- 2 - Terminal 31
- 3 - Left front bass speaker (+)
- 4 - Right front bass speaker (+)
- 5 - Center loudspeaker (+)
- 6 - Loudspeaker, right front (+)
- 7 - Loudspeaker, left front (+)
- 8 - Center mid/high range speaker (+)
- 9 - Microphone input (-) from microphone unit (in front roof module)
- 10 - Microphone input (+) from microphone unit (in front roof module)
- 11 - Loudspeaker, left rear (-)
- 12 - Loudspeaker, left rear (+)
- 13 - Loudspeaker, right rear (-)
- 14 - Loudspeaker, right rear (+)
- 15 - Left Front Bass Speaker (-)
- 16 - Right Front Bass Speaker (-)
- 17 - Center Loudspeaker (-)
- 18 - Loudspeaker, right front (-)
- 19 - Loudspeaker, left front (-)
- 20 - Center Mid/High Range Speaker (-)
- 23 - Microphone input (ground shielding) from microphone unit (in front roof module)
- 27 - CAN-Bus high (Infotainment)
- 29 - Positive switched from radio/navigation system with CD drive control module, radio/navigation display control module
- 32 - CAN-Bus Low (Infotainment)



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2.3 Antenna System, Coupe

⇒ [“2.3.1 Antenna system Assembly Overview”, page 29](#)

⇒ [“2.3.2 Antennas Overview”, page 30](#)

⇒ [“2.3.3 Antenna Amplifier 2 Connections”, page 31](#)

⇒ [“2.3.4 Antenna Amplifier/Antenna Amplifier 4 connections”, page 31](#)

2.3.1 Antenna system Assembly Overview

1 - Radio, Telephone, Navigation System Antenna -R52-

2 - Nut

□ 6 Nm

3 - Screw

□ 2 Nm

4 - Antenna Amplifier -R24-

5 - Nut

□ 6 Nm

6 - Antenna Amplifier 2 -R111-

7 - Windshield Antenna Suppression Filter -C18-

8 - Nut

□ 6 Nm

9 - Nut

□ 6 Nm

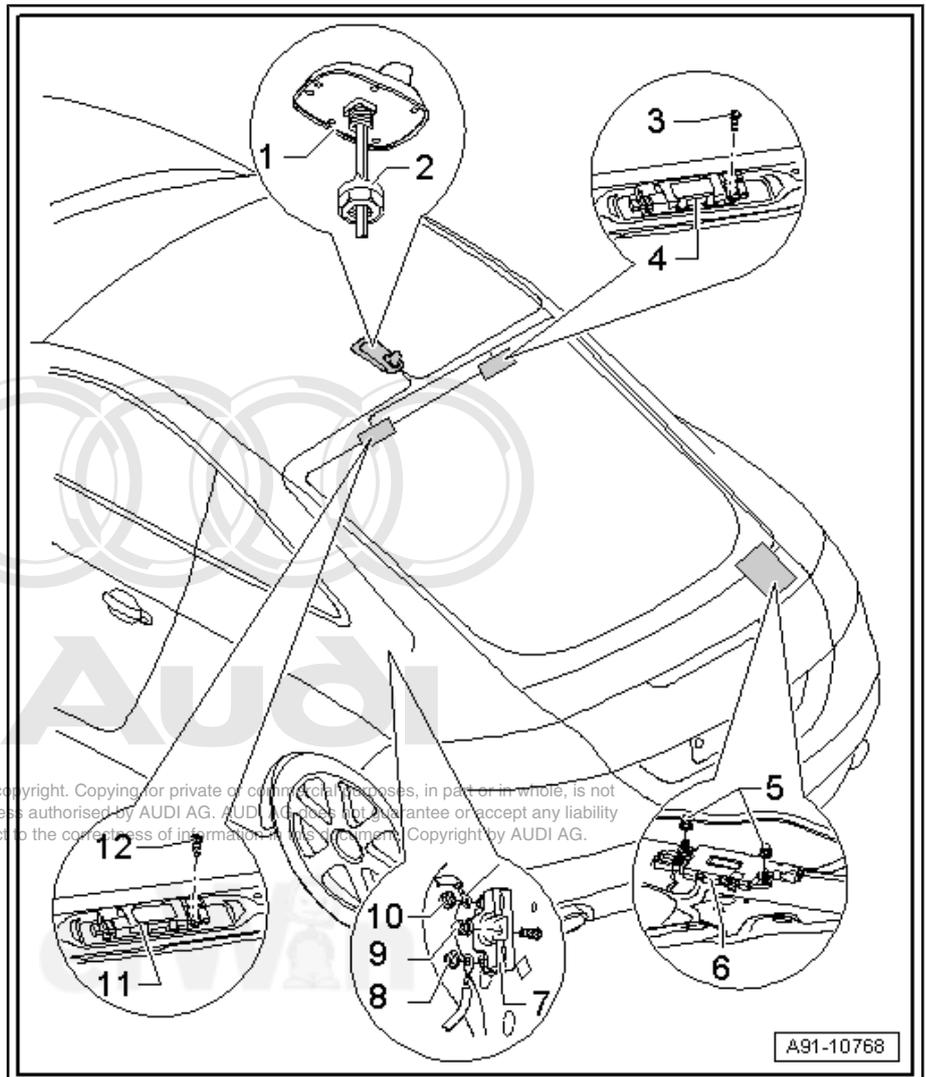
10 - Nut

□ 6 Nm

11 - Antenna Amplifier 4 -R113-

12 - Screw

□ 2 Nm



2.3.2 Antennas Overview

1 - Radio, Telephone, Navigation System Antenna -R52-

- GPS/GSM
- Removing and installing ⇒ [“4.5.3 Radio, Telephone, Navigation System Antenna”](#), page 96
- Sat/GPS/GSM (USA only)
- Removing and installing ⇒ [“4.5.4 Radio, Telephone, Navigation System Antenna”](#), page 97

2 - Antenna Amplifier 4 -R113-

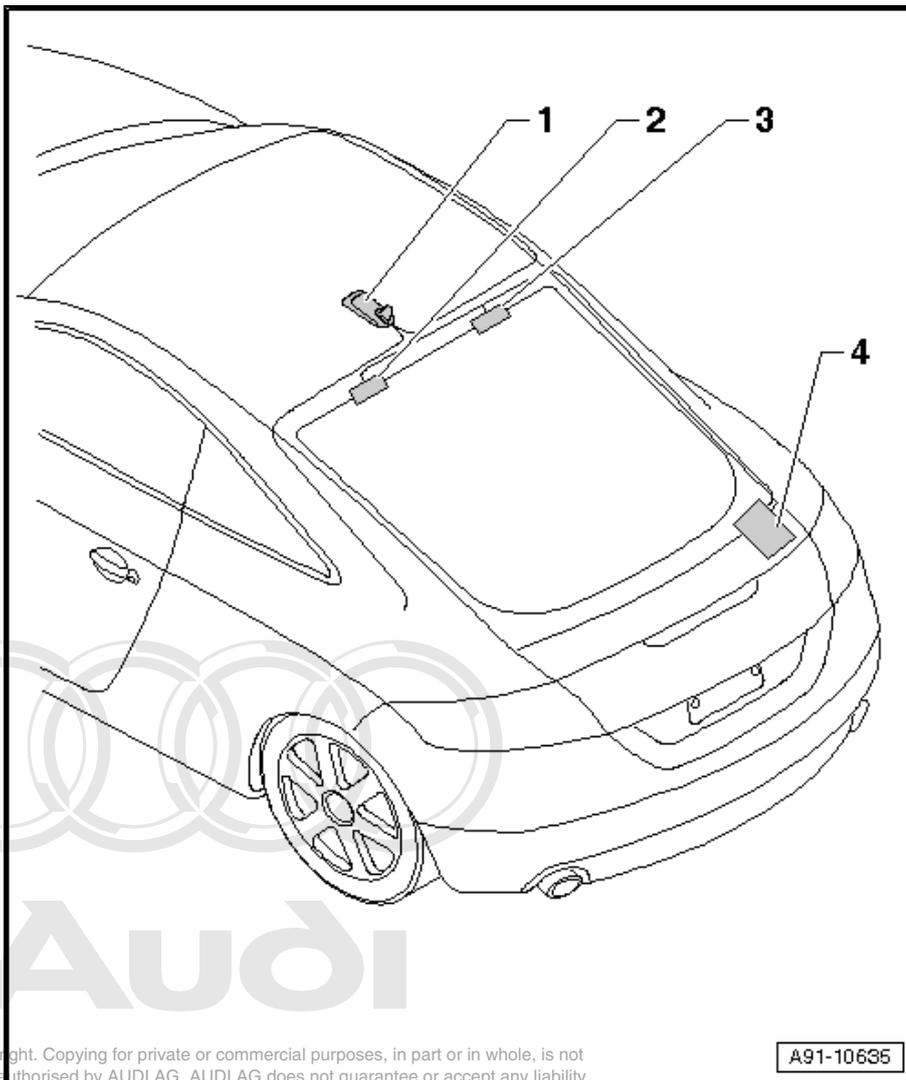
- Connectors. Refer to ⇒ [“2.3.4 Antenna Amplifier/Antenna Amplifier 4 connections”](#), page 31 .
- Removing and installing ⇒ [“4.5.2 Antenna Amplifier and Antenna Amplifier 4”](#), page 95

3 - Antenna Amplifier -R24-

- Connectors. Refer to ⇒ [“2.3.4 Antenna Amplifier/Antenna Amplifier 4 connections”](#), page 31 .
- Removing and installing ⇒ [“4.5.2 Antenna Amplifier and Antenna Amplifier 4”](#), page 95

4 - Antenna Amplifier 2 -R111-

- Connectors. Refer to ⇒ [“2.3.3 Antenna Amplifier 2 Connections”](#), page 31 .
- Removing and installing ⇒ [“4.5.1 Antenna Amplifier 2”](#), page 95



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2.3.3 Antenna Amplifier 2 Connections

A - FM2/ZF connection (yellow) to Radio -R- / Navigation System with CD Drive Control Module -J401- / Radio/Navigation Display Control Module -J503-

B - AM/FM1 connection (black) from the Antenna Amplifier -R24- (only with the radio/navigation system)

C - HF connection (white) to Navigation System with CD Drive Control Module -J401- / Radio/Navigation Display Unit Control Module -J503-

D - TV1 connection (brown) to TV Tuner -R78-

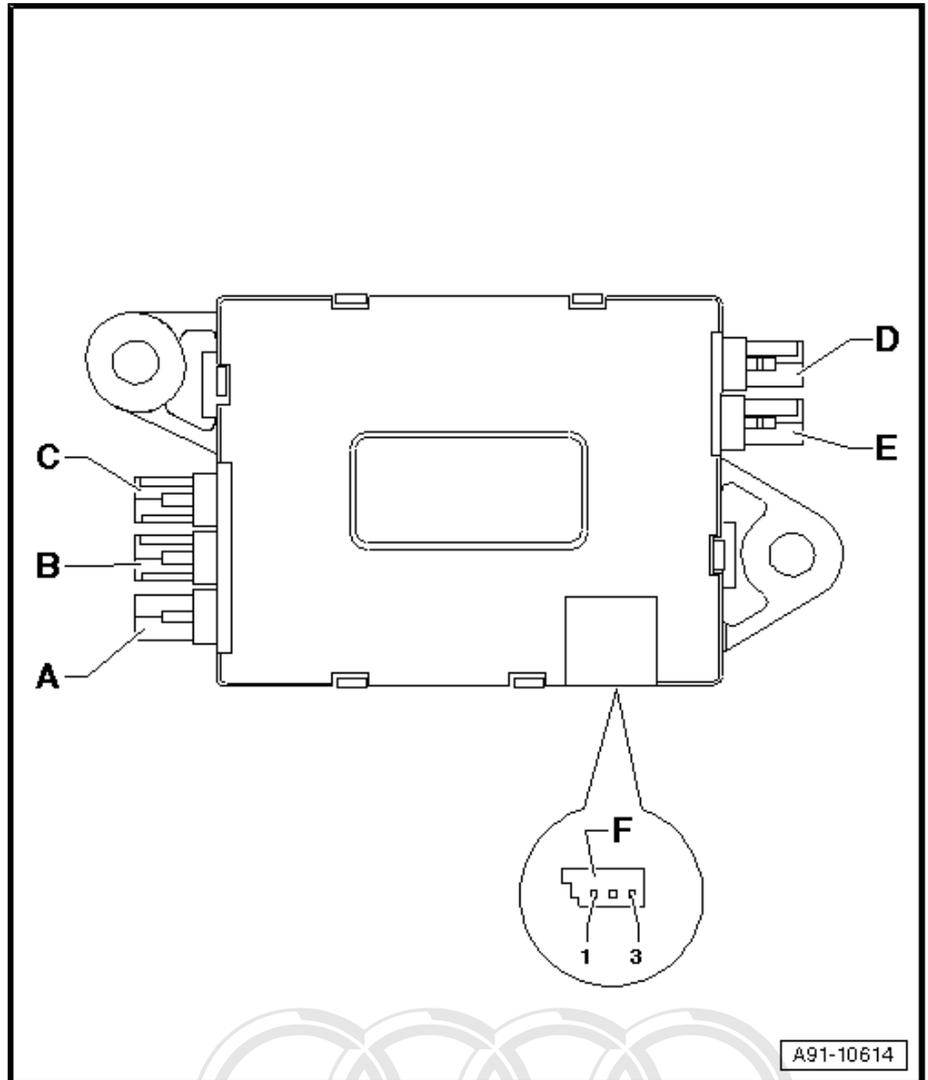
E - TV2 connection (green) to TV Tuner -R78-

F - Connection for window antennas

1 - FM2/TV1

2 - Ground (GND)

3 - FM3/TV2



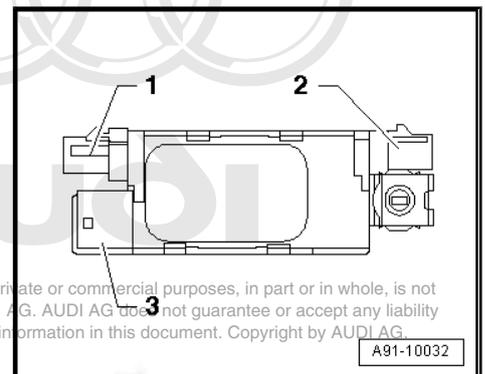
2.3.4 Antenna Amplifier/Antenna Amplifier 4 connections

Antenna amplifier

1 - Central locking and anti-theft alarm system antenna CLS connection (gray)

2 - AM/FM2 connection (white) to radio/radio preparation/antenna amplifier 2

3 - Window antenna connection (1 - FM1, 2 - CLS, 3 - AM)



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Antenna Amplifier 4 -R113-

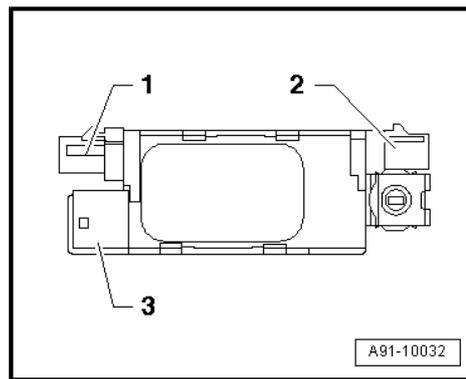
- 1 - Connection TV3 (green) to TV Tuner
- 2 - DAB connection (black)
- 3 - Window antenna connection (1 - TV/DAB, 2 - DAB, 3 - TV3)



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2.4 Antenna System, Roadster

⇒ [“2.4.1 Antenna System Assembly Overview”, page 33](#)

⇒ [“2.4.2 Antennas, Overview”, page 34](#)

⇒ [“2.4.3 Antenna Amplifier Connections”, page 35](#)

⇒ [“2.4.4 Antenna Amplifier 2 Connections”, page 35](#)

⇒ [“2.4.5 Antenna Selection Control Module Connections”, page 35](#)

2.4.1 Antenna System Assembly Overview

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1 - Nut (through MY 2007)

□ 2 Nm

2 - TV Antenna 2 -R56-
(through MY 2007)

3 - Navigation System Antenna
-R50- / Telephone Antenna -
R65-

4 - Screw

□ 2 Nm

5 - Antenna Amplifier 2 -R111-

6 - Screw

□ 2 Nm

7 - Radio Antenna 2 -R93-

8 - Screw

□ 2 Nm

9 - Antenna Selection Control
Module -J515-

10 - Screw

□ 2 Nm

11 - Antenna -R11- Mast Antenna

12 - Antenna Amplifier -R24-

13 - Nut

□ 4 Nm

14 - Grommet

15 - Satellite Antenna -R170-

16 - Nut

□ 6 Nm

17 - Cover

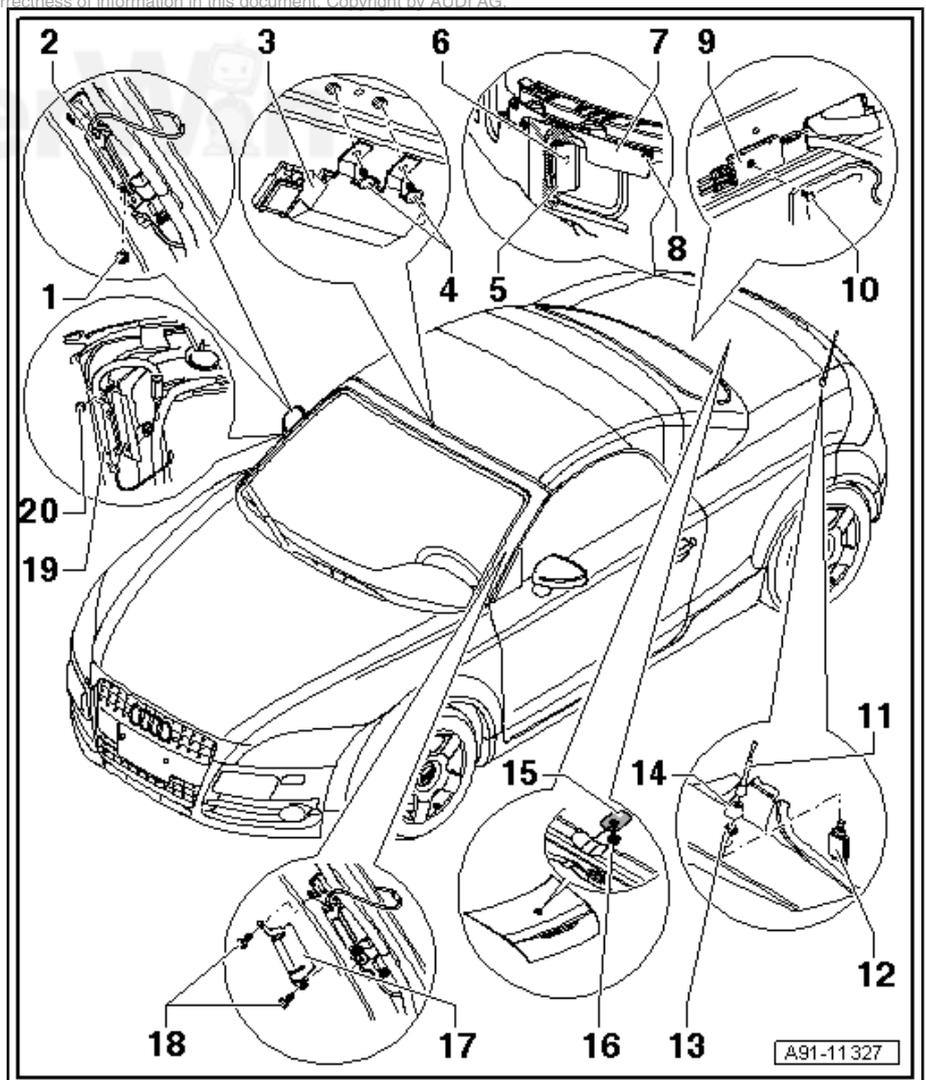
18 - Screw

□ 4 Nm

19 - TV antenna 2 -R56- (from MY 2008)

20 - Nut (from MY 2008)

□ 1.5 Nm



2.4.2 Antennas, Overview

1 - TV Antenna 2 -R56-

- Removing and installing through MY 2007, refer to ⇒ [“4.6.3 TV Antenna 2, through MY 2007”, page 101](#)
- Removing and installing from MY 2008, refer to ⇒ [“4.6.4 TV Antenna 2, from MY 2008”, page 101](#)
- Removing and installing, USA version, refer to ⇒ [“4.6.8 TV Antenna 2”, page 103](#)

2 - Telephone antenna -R65-

- Removing and installing, refer to ⇒ [“4.6.6 Navigation System Antenna/Telephone Antenna”, page 102](#)

3 - Navigation System Antenna -R50-

- Removing and installing, refer to ⇒ [“4.6.6 Navigation System Antenna/Telephone Antenna”, page 102](#)

4 - Antenna Selection Control Module -J515-

- Only with RNS-E with TV
- Connectors. Refer to, refer to ⇒ [“2.4.5 Antenna Selection Control Module Connections”, page 35](#) .
- Removing and installing, refer to ⇒ [“4.6.5 Antenna Selection Control Module”, page 102](#)

5 - Antenna Amplifier 2 -R111-

- Connectors, refer to ⇒ [“2.4.4 Antenna Amplifier 2 Connections”, page 35](#) .
- Removing and installing, refer to ⇒ [“4.6.2 Antenna Amplifier 2”, page 100](#)

6 - Satellite Antenna -R170- (USA only)

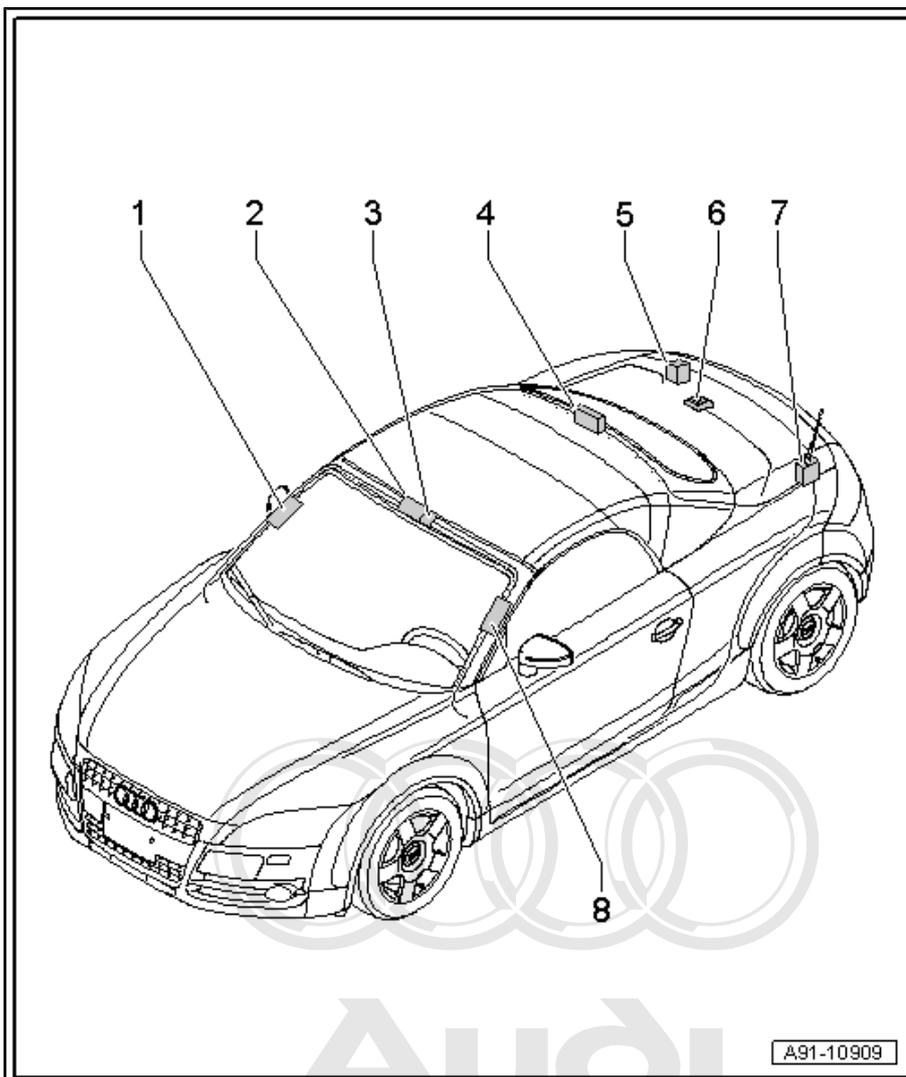
- Removing and installing, refer to ⇒ [“4.6.7 Satellite Antenna”, page 103](#)

7 - Antenna Amplifier -R24-

- Connectors, refer to ⇒ [“2.4.3 Antenna Amplifier Connections”, page 35](#) .
- Removing and installing, refer to ⇒ [“4.6.1 Antenna Amplifier”, page 100](#)

8 - TV Antenna 3 -R57-

- Removing and installing through MY 2007, refer to ⇒ [“4.6.3 TV Antenna 2, through MY 2007”, page 101](#)
- Removing and installing from MY 2008, refer to ⇒ [“4.6.4 TV Antenna 2, from MY 2008”, page 101](#)
- Removing and installing, USA version, refer to ⇒ [“4.6.8 TV Antenna 2”, page 103](#)

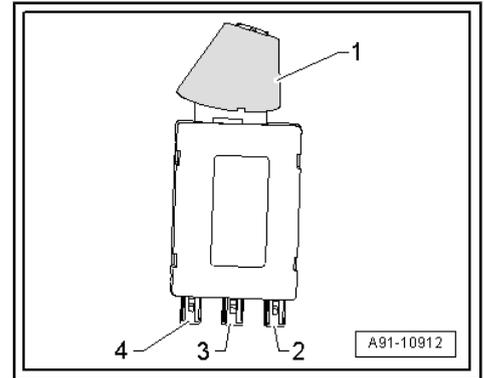


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2.4.3 Antenna Amplifier Connections

Antenna Amplifier -R24-

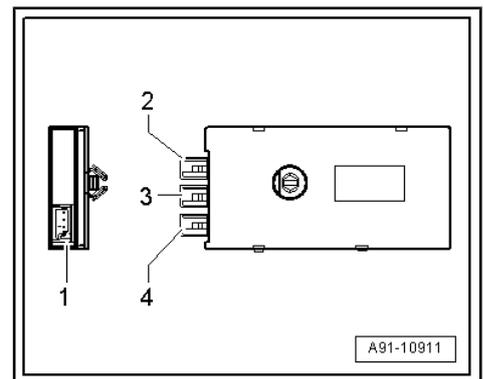
- 1 - Grommet with Antenna (AM/FM1) mast antenna
- 2 - DAB connection (black)
- 3 - Central locking and anti-theft alarm system antenna CLS connection (gray)
- 4 - AM/FM1 connection (white) to radio/antenna selection control module/antenna amplifier 2



2.4.4 Antenna Amplifier 2 Connections

Antenna Amplifier 2 -R111-

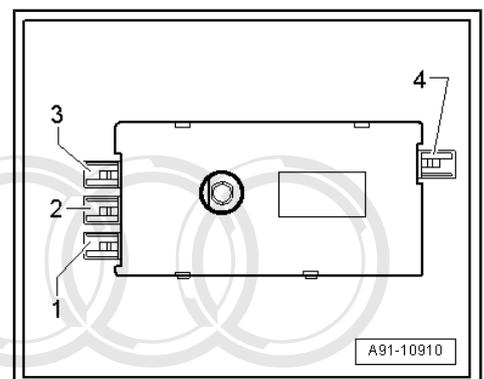
- 1 - Radio Antenna 2 FM2/TV1 rear lid antenna
- 2 - AM/FM1 connection (black) from the antenna amplifier (only with the radio/navigation system)
- 3 - IF connection (yellow) from navigation system with CD drive control module, radio/navigation display unit control module (only RNS without TV)
- Connection TV1 (green) to TV Tuner
- 4 - HF connection (white) to navigation system with CD drive control module, radio/navigation display unit control module (only RNS without TV)
- FM2 connection (yellow) to radio, antenna selection control module



2.4.5 Antenna Selection Control Module Connections

Antenna Selection Control Module -J515-

- 1 - AM/FM1 connection (black) from antenna amplifier
- 2 - HF connection (white) to navigation system with CD drive control module
- 3 - IF connection (yellow) from navigation system with CD Drive control module
- 4 - FM2 connection (yellow) from antenna amplifier 2



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2.5 Telephone System

⇒ [“2.5.1 Coupe, Assembly Overview”, page 36](#)

⇒ [“2.5.2 Roadster, Assembly Overview”, page 37](#)

⇒ [“2.5.3 Cellular Telephone Preparation Preliminary Setup, Overview”, page 37](#)

⇒ [“2.5.4 Cellular Telephone Preparation, Layout”, page 38](#)

⇒ [“2.5.5 Cellular Telephone Preparation, Connector, Preliminary Setup”, page 39](#)

⇒ [“2.5.6 Cellular Telephone Preparation Connectors, through MY 2008”, page 39](#)

⇒ [“2.5.7 Cellular Telephone Preparation Connectors, from MY 2009”, page 40](#)

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⇒ [“2.5.8 Front Roof Module Microphone Unit Overview”, page 41](#)

⇒ [“2.5.9 Telephone Transceiver Harness Connectors”, page 41](#)

⇒ [“2.5.10 Coupe Component Locations, General Overview”, page 43](#)

⇒ [“2.5.11 Roadster Component Locations, General Overview”, page 44](#)

2.5.1 Coupe, Assembly Overview

1 - Front Interior Light -W1- with Microphone Unit (in front roof module) -R164-

2 - Radio, Telephone, Navigation System Antenna -R52-

3 - Nut

□ 6 Nm

4 - Not Installed

5 - Electronic Box Cover

6 - Telephone transceiver - R36-

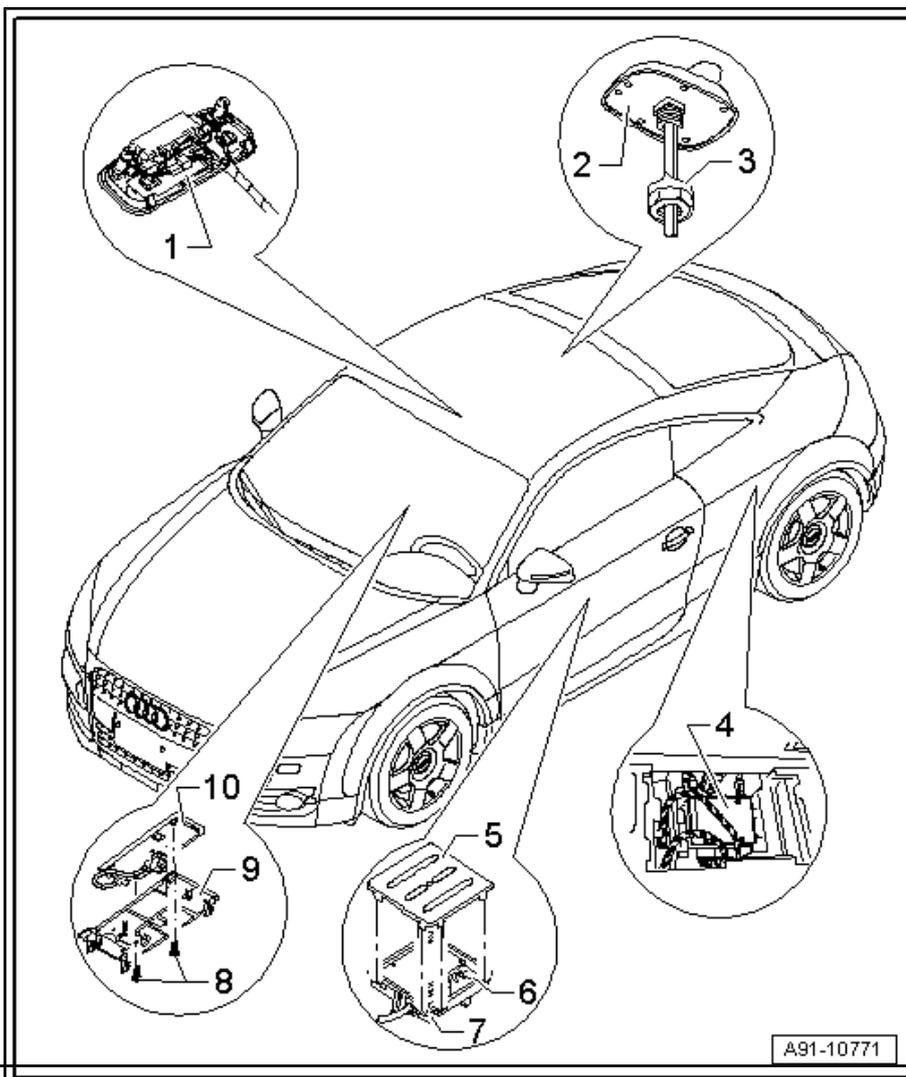
7 - Electronics Box

8 - Screw

□ 2 Nm

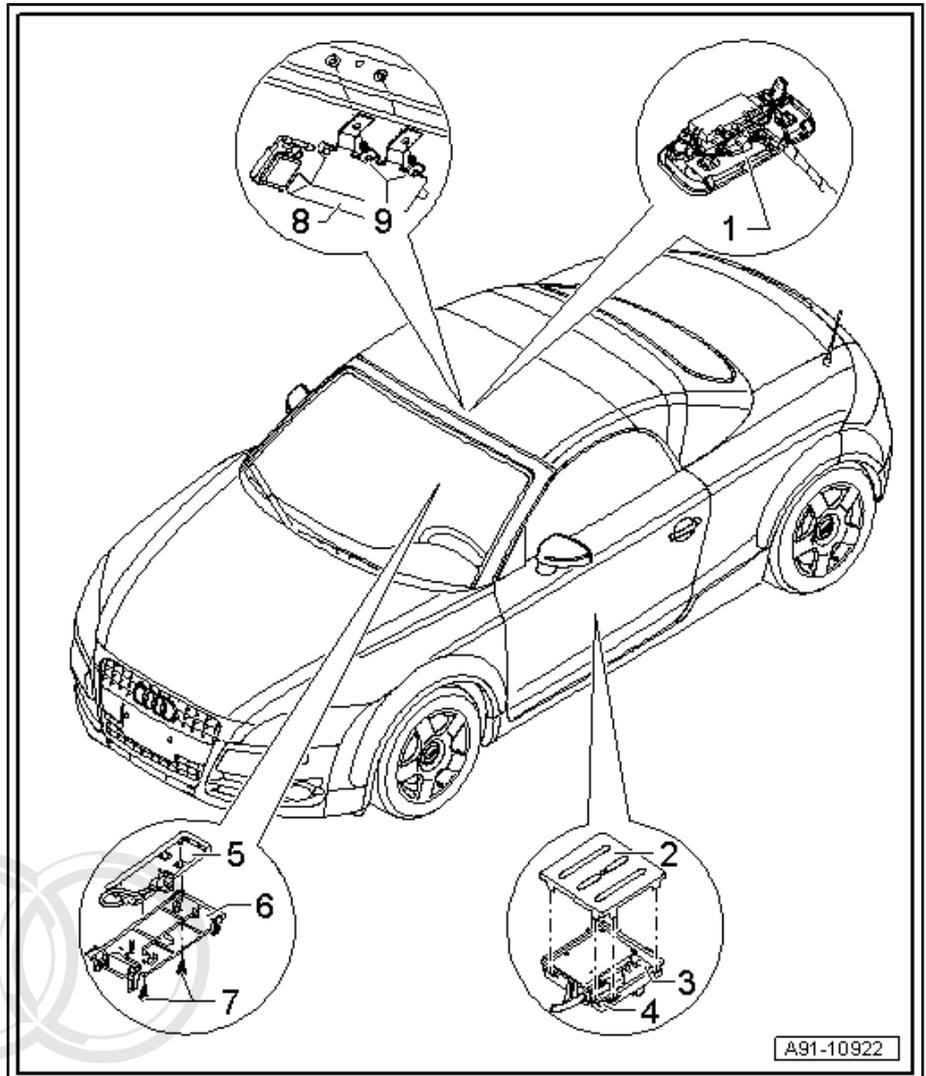
9 - Base plate

10 - Telephone Base plate - R126-



2.5.2 Roadster, Assembly Overview

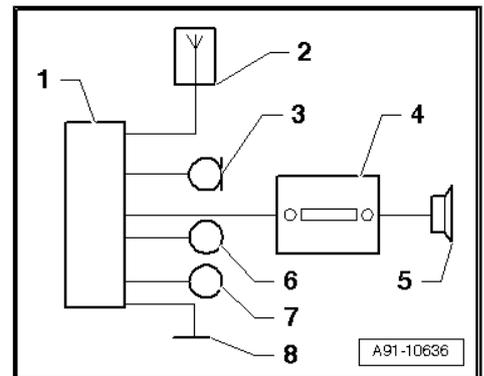
- 1 - Front Interior Light -W1- with Microphone Unit (in front roof module) -R164-
- 2 - Electronic Box Cover
- 3 - Telephone Transceiver - R36-
- 4 - Electronics Box
- 5 - Telephone Base Plate - R126-
- 6 - Base Plate
- 7 - Screw
 □ 2 Nm
- 8 - Navigation System Antenna -R50- / Telephone Antenna - R65-
- 9 - Screw
 □ 2 Nm



2.5.3 Cellular Telephone Preparation Preliminary Setup, Overview

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- 1 - Multi-pin connector, 18-pin (T18b) black, behind glove compartment
- 2 - Radio, telephone, navigation system antenna (GPS/GSM) coupe
- Telephone antenna (GSM) roadster
- 3 - Microphone unit in front roof module
- 4 - Radio
- 5 - Sound Systems
- 6 - Terminal 15
- 7 - Terminal 30
- 8 - Terminal 31



2.5.4 Cellular Telephone Preparation, Layout

1 - Telephone Baseplate - R126- inside the center console (through MY 2008)

2 - Radio -R- / Navigation System with CD Drive Control Module -J401- in top of center console

3 - Sound Systems

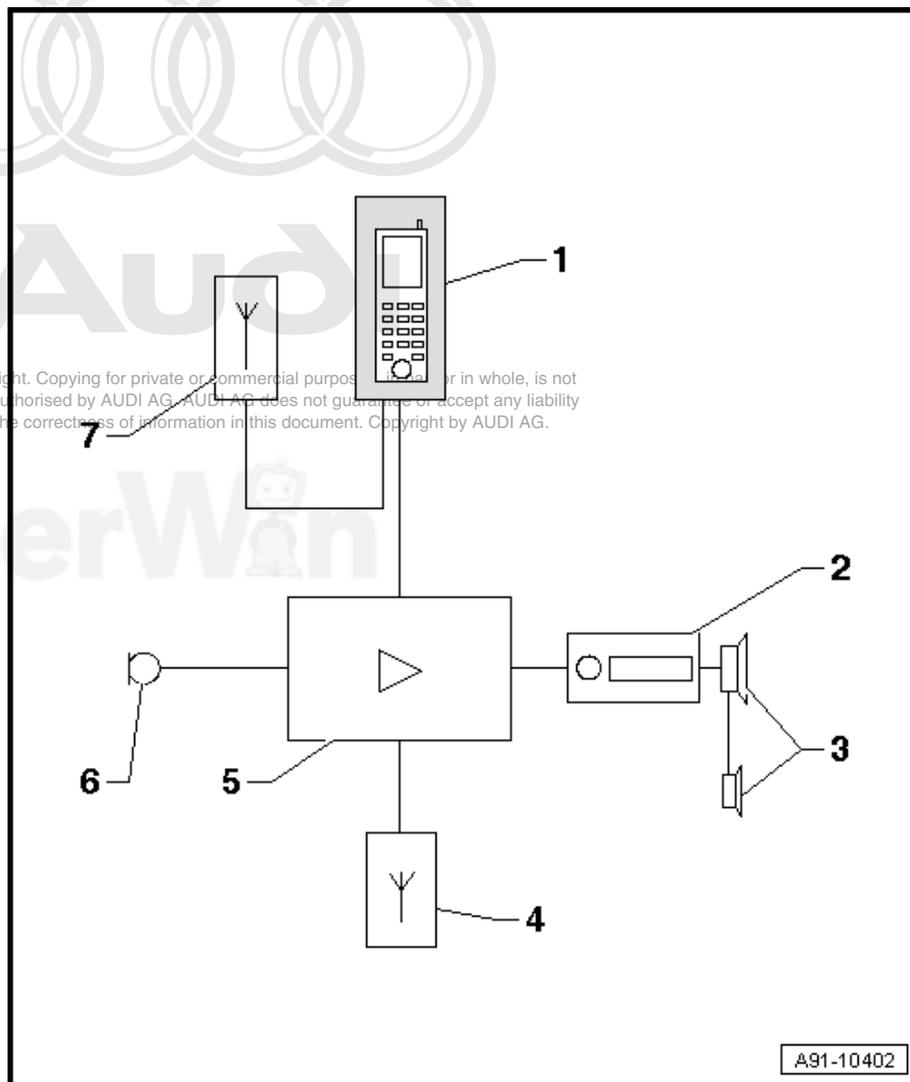
4 - Bluetooth Antenna -R152- at Telephone Transceiver - R36-

5 - Telephone Transceiver - R36- In Electronics Box Under Left Front Seat

6 - Microphone Unit (in front roof module) -R164- in Front Interior Light -W1-

7 - radio, telephone and navigation system antenna -R52- Roof Antenna (Coupe) Through MY 2008

- Telephone Antenna -R65- Behind The Front Interior Lamp -W1- (Roadster) Through MY 2008



2.5.5 Cellular Telephone Preparation, Connector, Preliminary Setup

 **Note**

Unlisted connector terminals are not assigned.

Black 18-pin connector (T18b)

1 - Terminal 31

4 - NF mute to radio/navigation system with CD drive control module, radio/navigation display control module

7 - NF (-) to radio/navigation system with CD drive control module, radio/navigation display control module

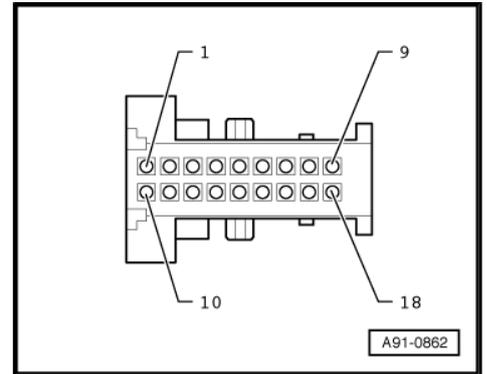
9 - Microphone unit (in front roof module) (-)

10 - Terminal 15

11 - Terminal 30

16 - NF (+) to radio/navigation system with CD drive control module, radio/navigation display control module

18 - Microphone unit (in front roof module) (+)



2.5.6 Cellular Telephone Preparation Connectors, through MY 2008

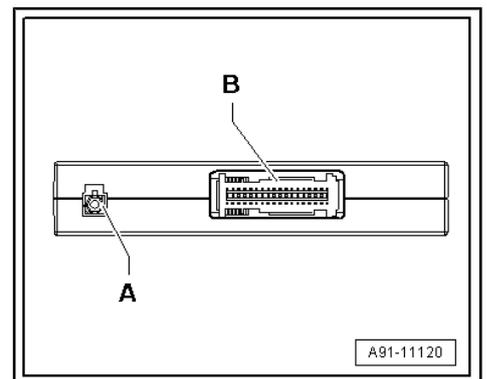
Telephone transceiver -R36-

A - Bluetooth antenna connection (yellow)

B - Black 54-pin multi-pin harness connector (T54)

 **Note**

Unlisted connector terminals are not assigned.



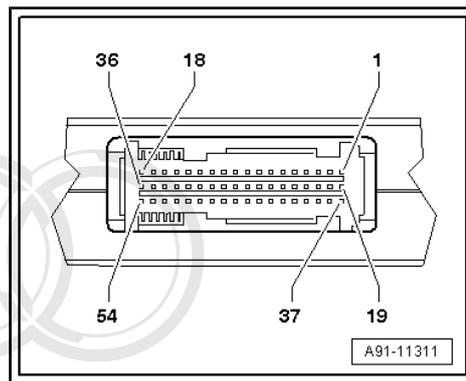
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B - Black 54-pin multi-pin harness connector (T54)

- 1 - Terminal 30
- 2 - Terminal 31
- 8 - LF (+) out to radio/navigation system with CD drive control module
- 9 - LF (-) out to radio/navigation system with CD drive control module
- 10 - Terminal 31 (screen ground) (not used)
- 11 - Microphone input (+) from microphone unit (in front roof module)/navigation system with CD drive control module
- 12 - Microphone input (-) from microphone unit (in front roof module)/navigation system with CD drive control module
- 16 - LF mute to Navigation System with CD Drive Control Module
- 17 - CAN-Bus High (Infotainment)
- 18 - CAN-Bus Low (Infotainment)
- 37 - Terminal 30 to telephone baseplate
- 39 - Terminal 31 to telephone baseplate
- 41 - Terminal 30 to telephone baseplate
- 42 - Microphone output (+) to telephone baseplate
- 43 - Microphone output (-) to telephone baseplate
- 44 - Terminal 31 (screen ground)
- 45 - LF (+) from telephone baseplate
- 46 - LF (-) from telephone baseplate
- 47 - SNDREQ signal from telephone baseplate
- 49 - Ser-Tx (+) to telephone baseplate
- 50 - Ser-Tx (-) to telephone baseplate
- 51 - Ser-Rx (+) from telephone baseplate
- 52 - Ser-Rx (-) from telephone baseplate



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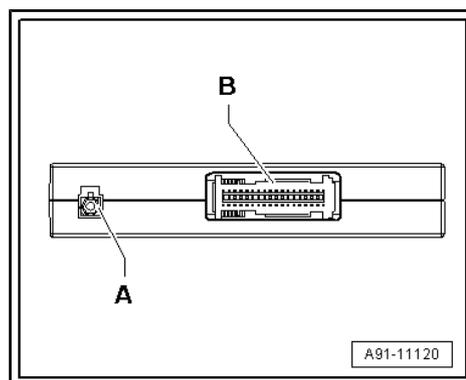
2.5.7 Cellular Telephone Preparation Connectors, from MY 2009

Telephone transceiver -R36-

- A - Bluetooth antenna connection (yellow)
- B - Black 54-pin multi-pin harness connector (T54)

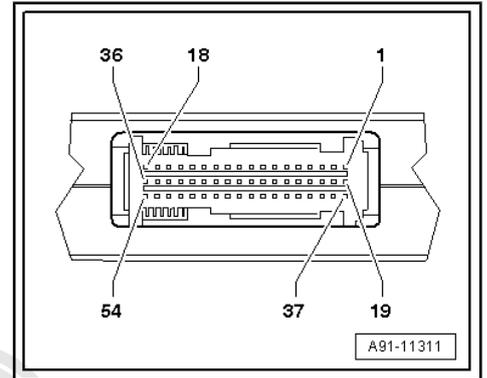
Note

Unlisted connector terminals are not assigned.



B - Black 54-pin multi-pin harness connector (T54)

- 1 - Terminal 30
- 2 - Terminal 31
- 8 - LF (+) out to radio/navigation system with CD drive control module
- 9 - LF (-) out to radio/navigation system with CD drive control module
- 10 - Terminal 31 (screen ground) (not used)
- 11 - Microphone input (+) from microphone unit (in front roof module)/navigation system with CD drive control module
- 12 - Microphone input (-) from microphone unit (in front roof module)/navigation system with CD drive control module
- 16 - LF mute to navigation system with CD drive control module
- 17 - CAN-Bus High (Infotainment)
- 18 - CAN-Bus Low (Infotainment)

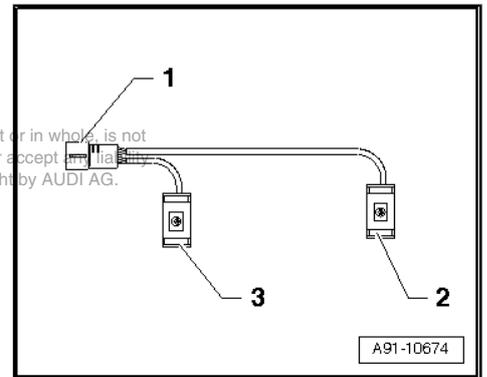


2.5.8 Front Roof Module Microphone Unit Overview

Microphone unit in front roof module -R164-

1 - Black 4-pin multi-pin harness connector (T4g)

- 1 - Microphone 1 to telephone transceiver
- 2 - Microphone 1 to telephone transceiver
- 3 - Microphone 2 to digital sound system control module
- 4 - Microphone 2 to digital sound system control module
- 2 - Microphone 1
- 3 - Microphone 2



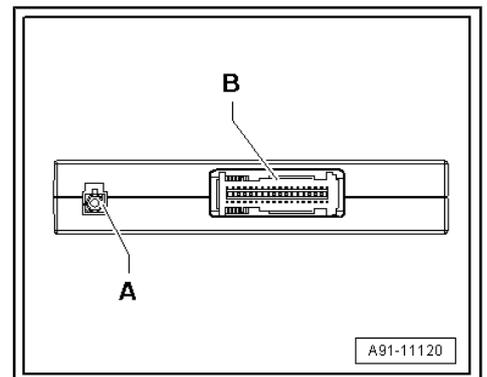
2.5.9 Telephone Transceiver Harness Connectors

Telephone transceiver -R36-

- A - Bluetooth antenna connection (yellow)
- B - Black 54-pin multi-pin harness connector (T54)

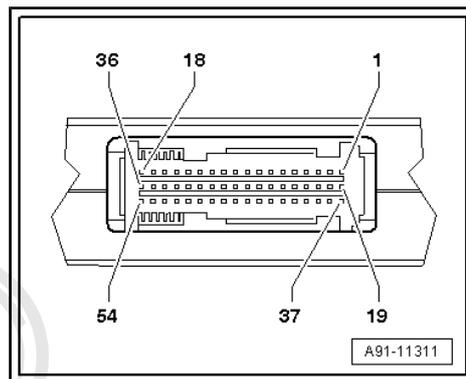


Unlisted connector terminals are not assigned.



Black 54-pin multi-pin harness connector (T54)

- 1 - Terminal 30
- 2 - Terminal 31
- 3 - Signal cellular telephone ON to telephone amplifier
- 8 - NF (+) to radio/navigation system with cd drive control module, radio/navigation display control module
- 9 - NF (-) to radio/navigation system with cd drive control module, radio/navigation display control module
- 10 - Terminal 31 (screen ground) (not used)
- 11 - Microphone input (+) from microphone unit (in front roof module)/navigation system with cd drive control module
- 12 - Microphone input (-) from microphone unit (in front roof module)/navigation system with cd drive control module
- 16 - NF mute, not used
- 17 - CAN-Bus High (Infotainment)
- 18 - CAN-Bus Low (Infotainment)
- 37 - Terminal 30 to telephone baseplate
- 39 - Terminal 31 to telephone baseplate
- 41 - Terminal 30 to telephone baseplate
- 42 - Microphone output (+) to telephone baseplate
- 43 - Microphone output (-) to telephone baseplate
- 44 - Terminal 31 (screen ground)
- 45 - LF (+) from telephone baseplate
- 46 - LF (-) from telephone baseplate
- 47 - SNDREQ signal from telephone baseplate
- 49 - Ser-Tx (+) to telephone baseplate
- 50 - Ser-Tx (-) to telephone baseplate
- 51 - Ser-Rx (+) from telephone baseplate
- 52 - Ser-Rx (-) from telephone baseplate



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2.5.10 Coupe Component Locations, General Overview

1 - CD Changer -R41-

- In the glove compartment

2 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center

3 - Microphone unit in front roof module -R164-

- In Front Interior Light - W1-

- Overview, refer to ⇒ [“2.5.8 Front Roof Module Microphone Unit Overview”](#), page 41

- Removing and installing, refer to ⇒ [“4.7.3 Microphone Unit in Front Roof Module”](#), page 105

4 - Radio, Telephone, Navigation System Antenna -R52-

- Through MY 2008
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”](#), page 30

5 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim

6 - Rear Speaker

- Behind rear side trim

7 - Telephone Transceiver -R36-

- In electronics box under left front seat
- Connectors through MY 2008, refer to ⇒ [“2.5.6 Cellular Telephone Preparation Connectors, through MY 2008”](#), page 39
- Connectors from MY 2009, refer to ⇒ [“2.5.7 Cellular Telephone Preparation Connectors, from MY 2009”](#), page 40
- Removing and installing, refer to ⇒ [“4.7.2 Telephone Transceiver”](#), page 105

8 - Front Speaker

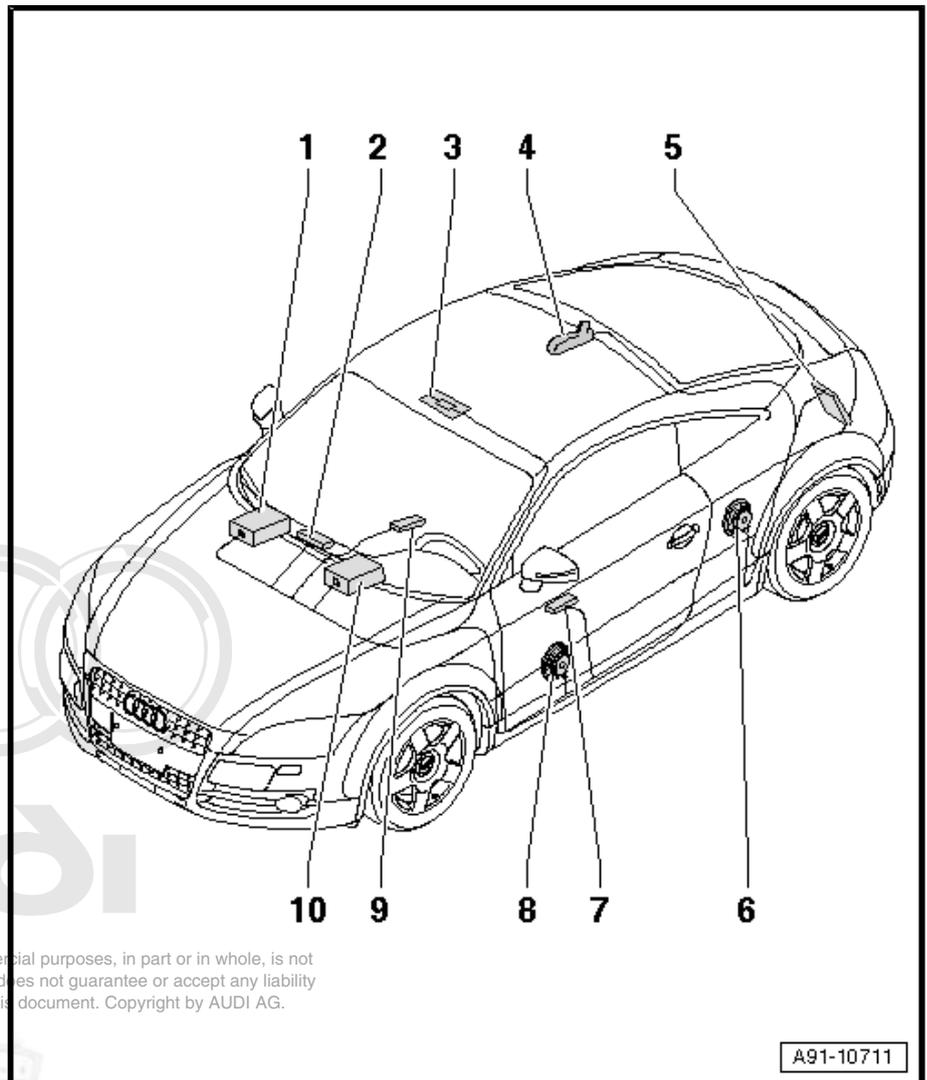
- In doors

9 - Telephone Base plate -R126-

- Through MY 2008
- In center console
- Removing and installing, refer to ⇒ [“4.7.1 Telephone Baseplate”](#), page 104

10 - Radio -R-

- In the top of the center console



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2.5.11 Roadster Component Locations, General Overview

1 - Not Installed

2 - CD Changer -R41-

- In the glove compartment

3 - Center Mid/High Range Loudspeaker -R158-

- In the center of the instrument panel

4 - Telephone Antenna -R65-

- Through MY 2008
- Behind front interior light
- Overview, refer to [⇒ "2.4.2 Antennas, Overview", page 34](#)

5 - Microphone Unit In Front Roof Module -R164-

- In front interior light
- Overview, refer to [⇒ "2.5.8 Front Roof Module Microphone Unit Overview", page 41](#)
- Removing and installing, refer to [⇒ "4.7.3 Microphone Unit in Front Roof Module", page 105](#)

6 - Telephone Transceiver - R36-

- In electronics box under left front seat
- Connectors through MY 2008, refer to [⇒ "2.5.6 Cellular Telephone Preparation Connectors, through MY 2008", page 39](#)
- Connectors from MY 2009, refer to [⇒ "2.5.7 Cellular Telephone Preparation Connectors, from MY 2009", page 40](#)
- Removing and installing, refer to [⇒ "4.7.2 Telephone Transceiver", page 105](#)

7 - Front Speaker

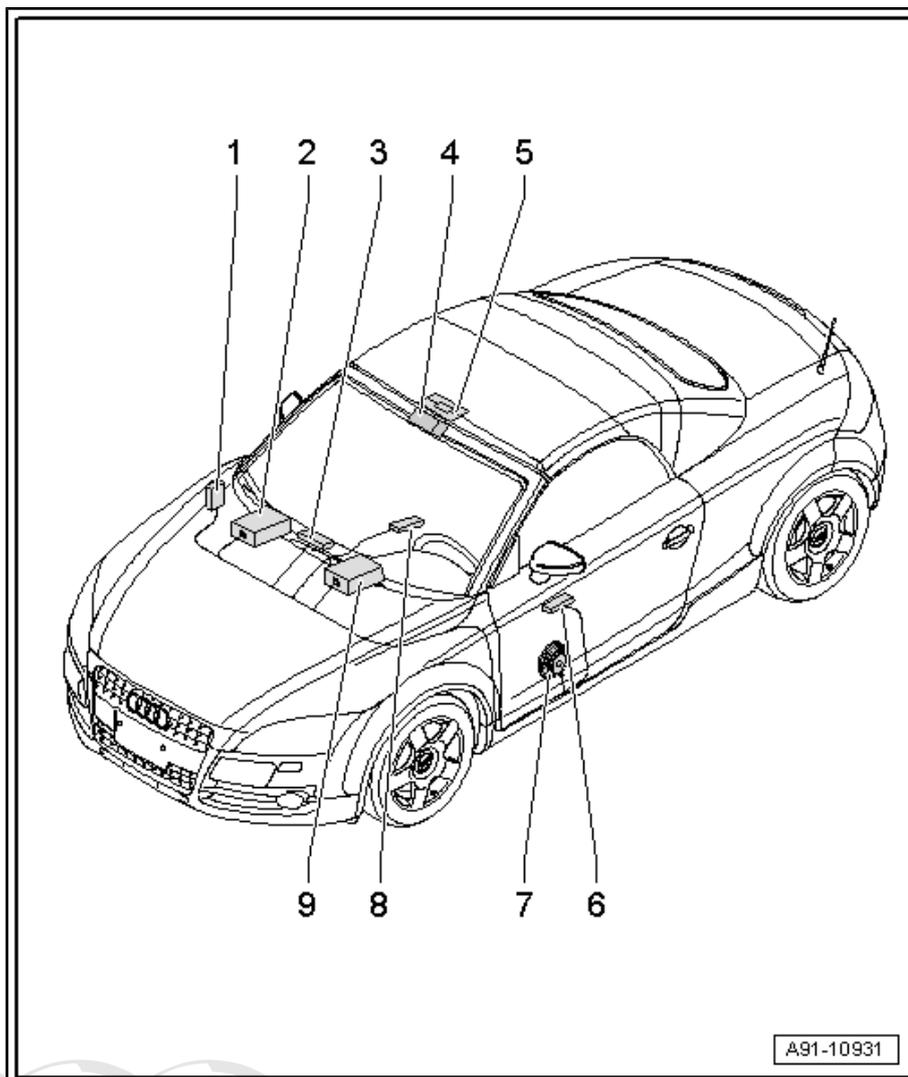
- In doors

8 - Telephone Base plate -R126-

- Through MY 2008
- In center console
- Removing and installing, refer to [⇒ "4.7.1 Telephone Baseplate", page 104](#)

9 - Radio-R-

- In the top of the center console



2.6 RNS-E Navigation System

⇒ ["2.6.1 Coupe, Assembly Overview", page 45](#)

⇒ ["2.6.2 Roadster, Assembly Overview", page 46](#)

⇒ ["2.6.3 Error Messages On Screen", page 46](#)

⇒ ["2.6.4 RNS-E, Coupe, Overview", page 47](#)

⇒ ["2.6.5 RNS-E, Roadster, Overview", page 48](#)

⇒ ["2.6.6 Navigation System with CD Drive Control Module, Harness Connectors", page 49](#)

⇒ ["2.6.7 Coupe Component Locations, General Overview", page 51](#)

⇒ ["2.6.8 Roadster Component Locations, General Overview", page 53](#)

2.6.1 Coupe, Assembly Overview

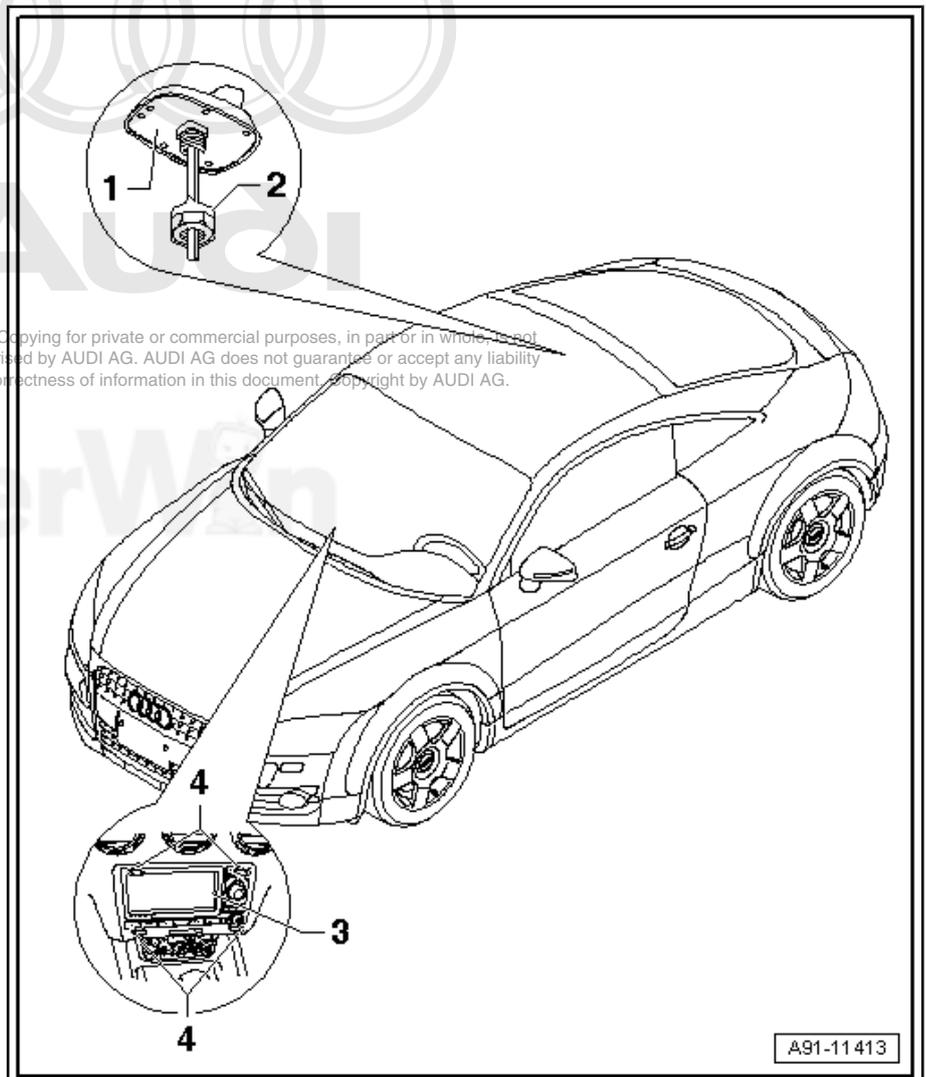
1 - Radio, Telephone, Navigation System Antenna -R52-

2 - Nut

□ 6 Nm

3 - Navigation System with CD Drive Control Module -J401-

4 - Radio Removal Tool - T10057-



2.6.2 Roadster, Assembly Overview

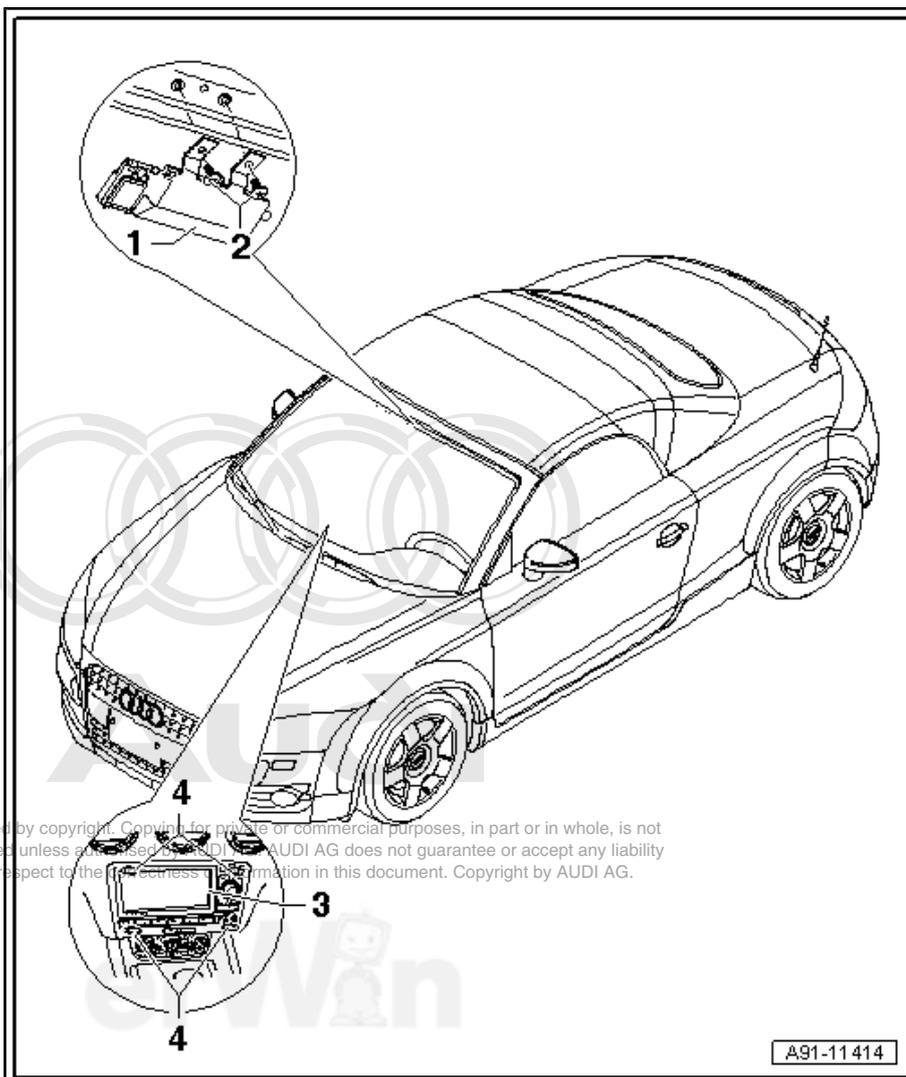
1 - Navigation System Antenna
-R50- / Telephone Antenna -
R65-

2 - Screw

□ 2 Nm

3 - Navigation System With CD
Drive Control Module -J401-

4 - Radio Removal Tool -
T10057-



2.6.3 Error Messages On Screen

If there is a malfunction in the system, either a fault is saved in the DTC and/or an error message is given on the navigation system with CD drive control module display.

The following fault messages can be displayed:

Indicator in display:

CD/DVD is unreadable
Please check the CD/DVD

This error message appears:

- ◆ Navigation DVD cannot be read.
- ◆ DVD is faulty.
- ◆ DVD drive is faulty.
- See if drive can read a replacement DVD.

Same error:

- Perform in adaptation channel 41.

Use the vehicle diagnosis, testing and information system to do so.

Indicator in display:

CD/DVD drive defect.
 Unable to read data.
 Consult your dealer.

This error message appears:

- ◆ Drive cannot read DVD data.
- ◆ DVD is faulty.
- ◆ DVD drive is faulty.
- See if drive can read a replacement DVD.

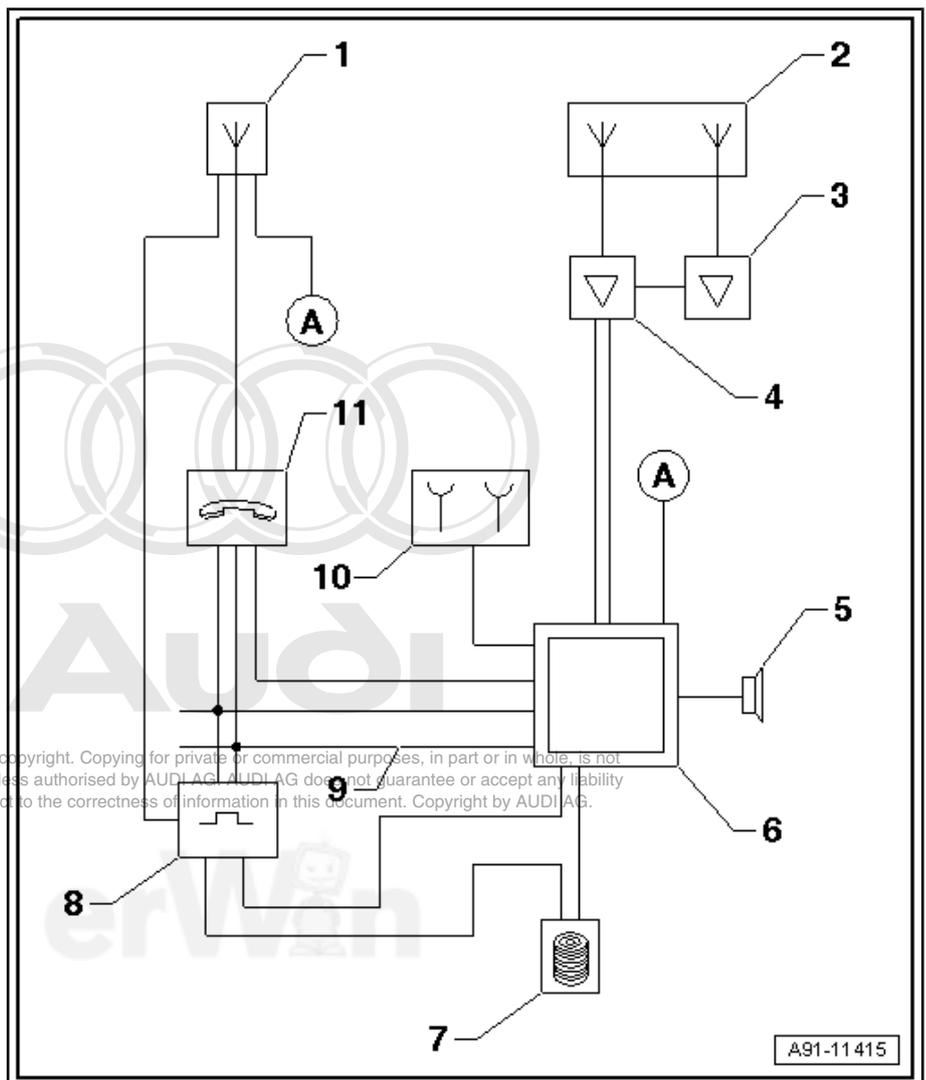
Same error:

- Perform in adaptation channel 41.

Use the vehicle diagnosis, testing and information system to do so.

2.6.4 RNS-E, Coupe, Overview

- 1 - Radio, Telephone, Navigation System Antenna -R52- Roof Antenna
- 2 - Rear Window Antennas
- 3 - Antenna Amplifier -R24- On Upper Right Side Of Rear Lid
- 4 - Antenna Amplifier 2 -R111- On Lower Right Area Of Rear Lid
- 5 - Sound Systems
- 6 - Navigation System with CD Drive Control Module -J401- in Top Of Center Console
- 7 - CD Changer -R41- / iPod Baseplate -R192- Inside The Glove Compartment
- 8 - Satellite Radio -R146- Inside The Luggage Compartment On The Left Side Under The Luggage Compartment Floor Covering
- 9 - CAN-BUS (Infotainment)
- 10 - External Audio Source Connection -R199- In The Center Console Storage Compartment
- 11 - Telephone Transceiver - R36- In Electronics Box Under Left Front Seat



2.6.5 RNS-E, Roadster, Overview

1 - Satellite antenna -R170- On The Rear Lid

2 - Telephone Antenna -R65- Behind Front Interior Light - W1-

3 - Navigation System Antenna -R50- Behind Front Interior Light -W1-

4 - Radio Antenna 2 -R93- (FM2) Behind Right Side Of Rear Lid

5 - Antenna -R11- (AM/FM1) Left Rear Mast Antenna

6 - Antenna Amplifier -R24- Left Rear Mast Antenna Base

7 - Antenna Selection Control Module -J515- In Luggage Compartment Under The Luggage Compartment Floor Covering In the center

8 - Antenna Amplifier 2 -R111- Behind Right Side Of Rear Lid

9 - External audio source connection -R199- In The Center Console Storage Compartment

10 - Navigation System with CD Drive Control Module - J401- In Top Of Center Console

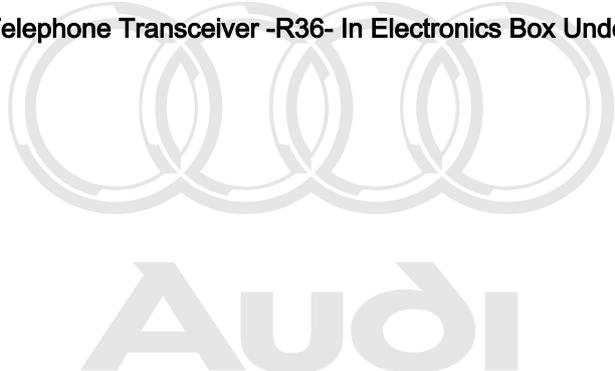
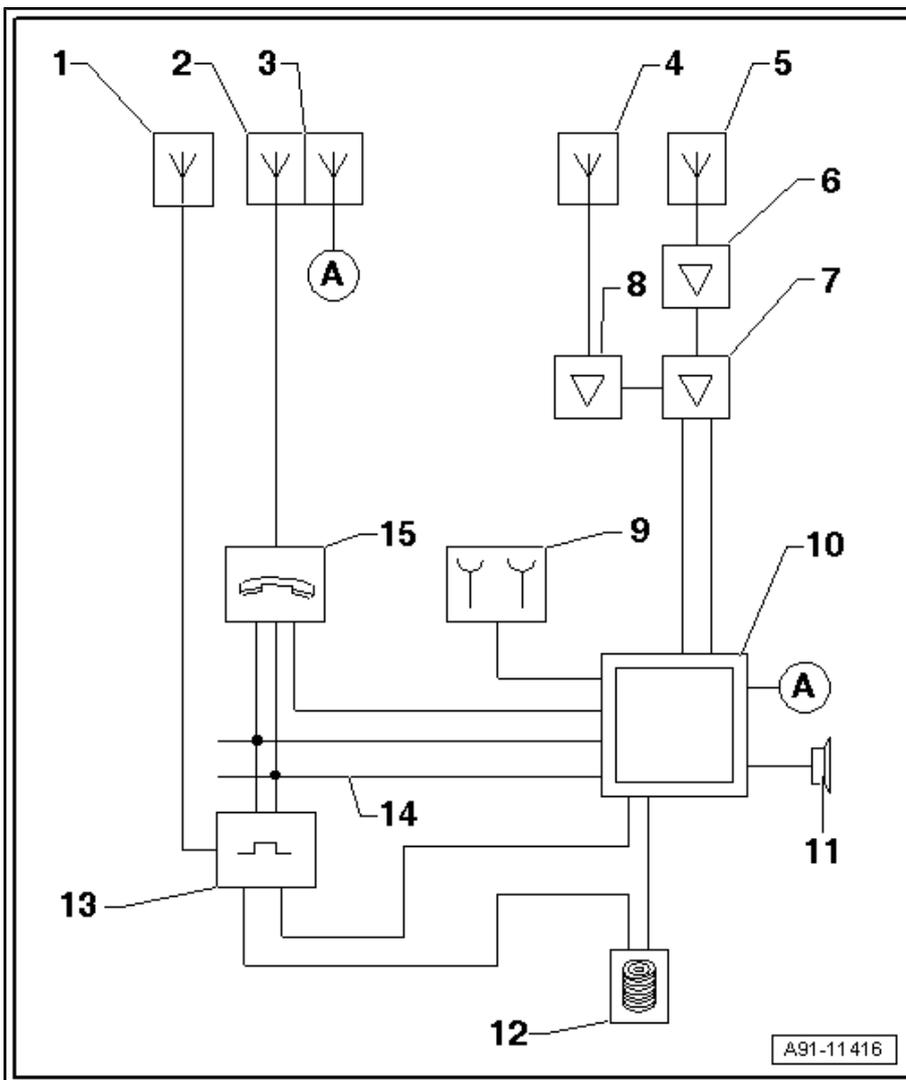
11 - Sound Systems

12 - CD Changer -R41- / iPod Baseplate -R192- Inside The Glove Compartment

13 - Satellite radio -R146- Inside The Luggage Compartment On The Left Side Under The Luggage Compartment Floor Covering

14 - CAN-BUS (Infotainment)

15 - Telephone Transceiver -R36- In Electronics Box Under Left Front Seat



2.6.6 Navigation System with CD Drive Control Module, Harness Connectors

1 - GPS connection (blue) from Radio, Telephone, Navigation System Antenna -R52- Coupe

- GPS connection (blue) from Navigation System Antenna - R50- Roadster

2 - Connection Block With Four Multi-Pin Connectors And A Fuse For Unit

3 - Front Passenger's Airbag Disabled Indicator Lamp - K145-

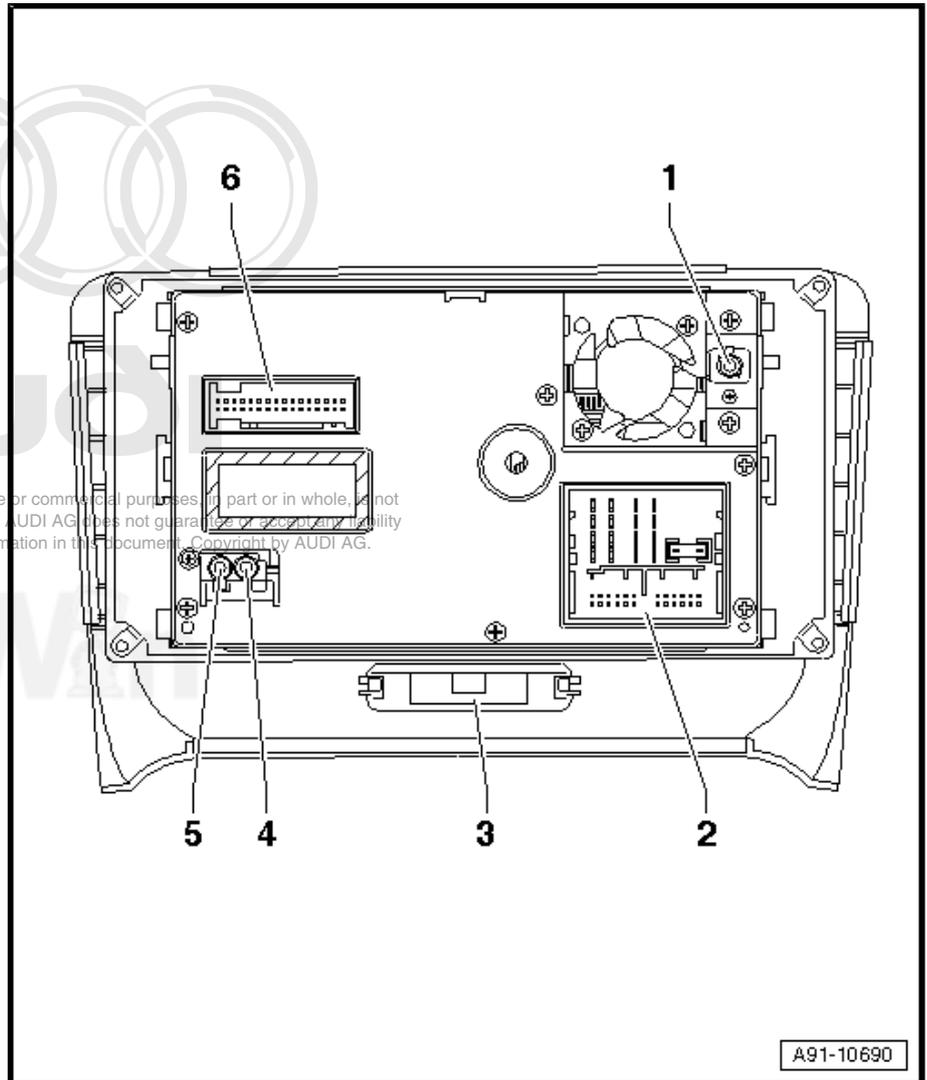
4 - IF Connection (White) To Antenna Amplifier 2 -R111- Coupe

- IF Connector (White) To The Antenna Selection Control Module -J515- Roadster

5 - HF (white) Connection From Antenna Amplifier 2 - R111- Coupe

- HF Connector (White) From The Antenna Selection Control Module -J515- Roadster

6 - 32-pin Connector (T32b) From The External Audio Source Connection -R199-



Note

Unlisted connector terminals are not assigned.

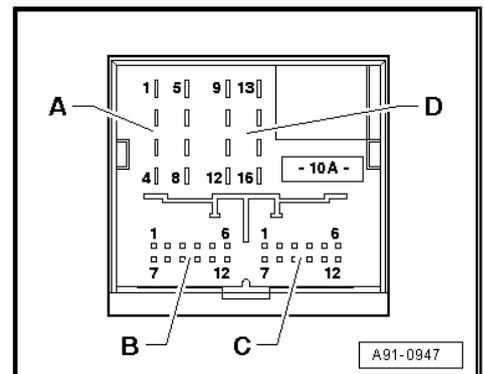
A - 8-pin multi-pin connector (T8b) brown

2 - Right front speaker (+) (not used)

3 - Left front speaker (+) (not used)

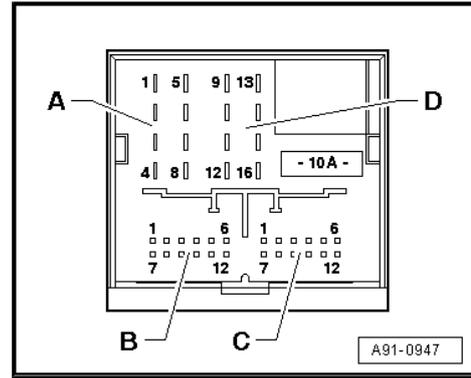
6 - Right front speaker (-) (not used)

7 - Left front speaker (-) (not used)



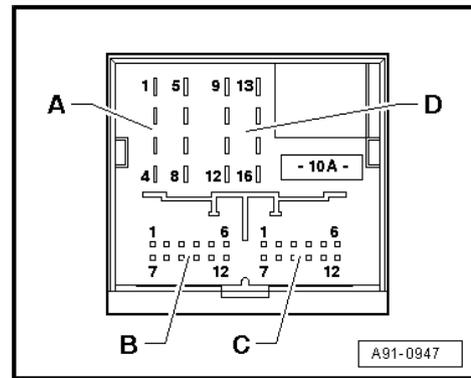
B - Multi-pin connector, 12-pin (T12f) blue

- 2 - Signal ground to CD changer/satellite radio
- 3 - Speed signal (not used)
- 4 - Permanent positive to CD changer
- 5 - K diagnostic (not used)
- 6 - Data out to the CD changer
- 7 - BOSE coding to ground (only with BOSE)
- 8 - Left signal from CD changer/satellite radio
- 9 - Right signal from CD changer/satellite radio
- 10 - Positive switched to CD changer
- 11 - Data in from the CD changer
- 12 - CLK from the CD changer



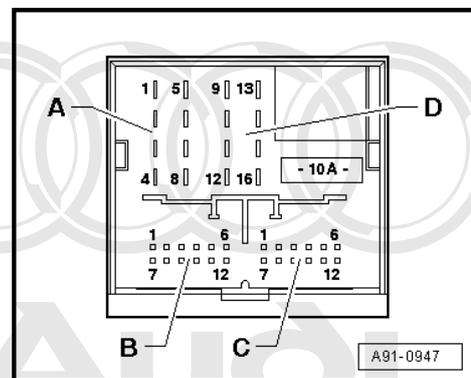
C - Green 12-pin multi-pin connector (T12g)

- 2 - Signal from back-up light switch (not used)
- 3 - Left front signal to digital sound system control module
- 5 - Left rear signal to digital sound system control module
- 6 - LF (-) from telephone transceiver
- 8 - Signal ground to digital sound system control module
- 9 - Right front signal to digital sound system control module
- 11 - Right rear signal to digital sound system control module
- 12 - LF (+) from telephone transceiver



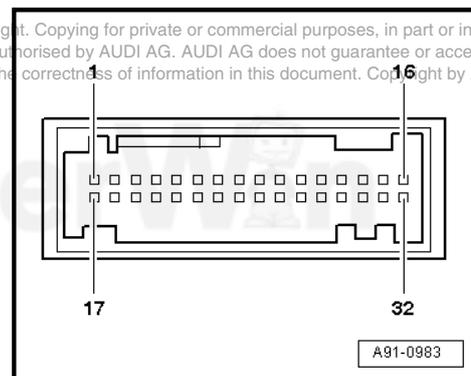
D - 8-pin multi-pin connector (T8a) black

- 9 - CAN-Bus High (Infotainment)
- 10 - CAN-Bus Low (Infotainment)
- 11 - NF mute from telephone transceiver
- 12 - Terminal 31
- 13 - Positive switched to digital sound system control module
- 14 - Anti-theft warning system (not used)
- 15 - Terminal 30
- 16 - Permanent positive (not used)



6 - 32-pin connector (T32b)

- 6 - Right LF-IN from the external audio source connection
- 21 - LF-IN ground from the external audio source connection
- 22 - Left LF-IN from the external audio source connection



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2.6.7 Coupe Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ ["4.4.6 Left Front Treble Speaker", page 92](#)

2 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ ["2.10 CD Changer Harness Connectors", page 80](#).
- Removing and installing, refer to ⇒ ["4.10 CD Changer", page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to ⇒ ["2.11 iPod Baseplate, Connections", page 81](#).
- Removing and installing, refer to ⇒ ["4.11 iPod Baseplate", page 108](#)

- External Audio Source Connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source) refer to ⇒ ["2.12 External Audio Source Connection Connectors, AMI", page 81](#)
- AUX IN Connectors, refer to ⇒ ["2.13 AUX IN External Audio Source Connection Connectors", page 82](#).
- Removing and installing (connection for an external audio source), refer to ⇒ ["4.12 AMI External Audio Source Connection", page 108](#)
- AUX IN, Removing and Installing, refer to ⇒ ["4.13 AUX IN External Audio Source Connection", page 109](#).

3 - Center Mid/High Range Loudspeaker -R158-

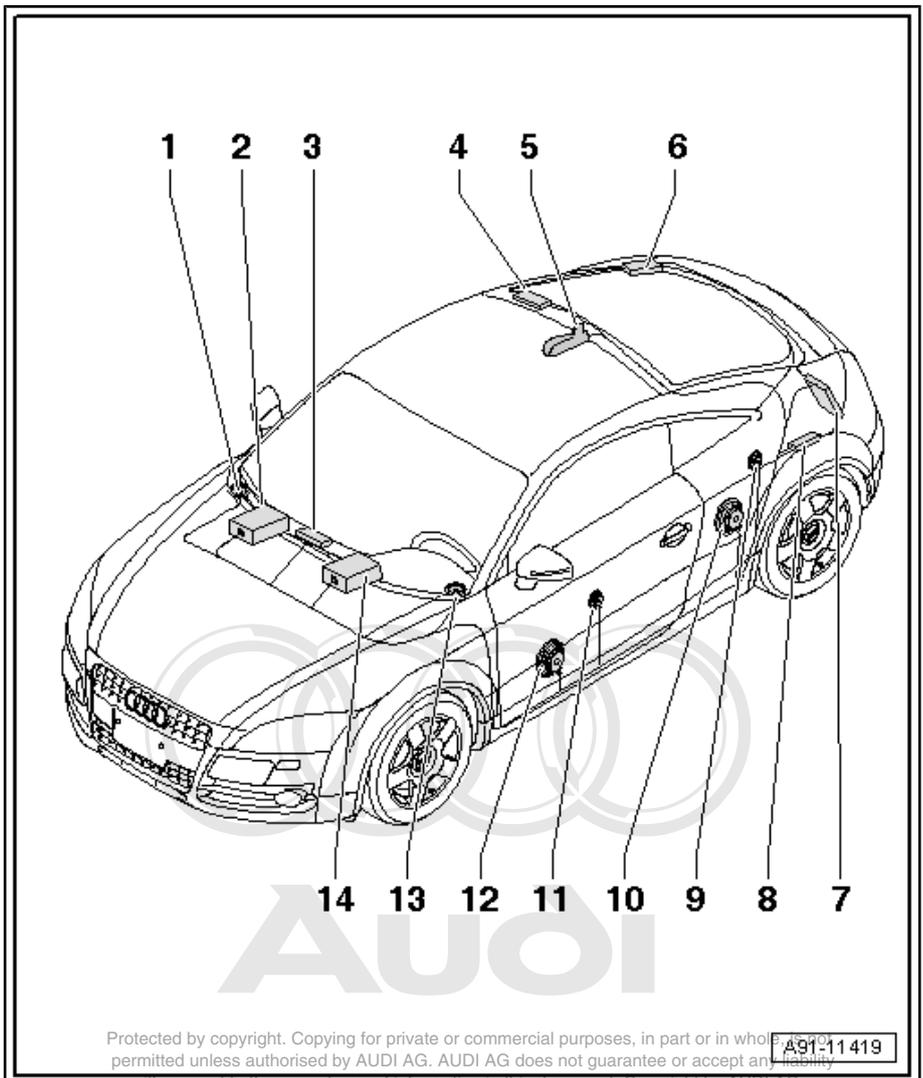
- In front instrument panel, center
- Removing and installing, refer to ⇒ ["4.4.8 Center Mid/High Range Speaker", page 93](#)

4 - Antenna Amplifier -R24-

- On upper right of rear lid
- Overview, refer to ⇒ ["2.3.2 Antennas Overview", page 30](#)

5 - Radio, Telephone, Navigation System Antenna -R52-

- Overview, refer to ⇒ ["2.3.2 Antennas Overview", page 30](#)



6 - Antenna Amplifier 2 -R111-

- On lower right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

7 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

8 - Satellite Radio -R146-

- Inside the luggage compartment on the left side under the luggage compartment floor covering
- Connectors, refer to ⇒ [“2.1.5 Satellite Radio Connectors, Through 10/06”, page 13](#) .
- Removing and installing, activating, refer to ⇒ [“4.3 Satellite Radio”, page 88](#)

9 - Left Rear Treble Speaker -R14- / Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

10 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- Behind rear side trim
- Removing and installing, refer to ⇒ [“4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe”, page 91](#)

11 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

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12 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

13 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

14 - Navigation System with CD Drive Control Module -J401-

- In the top of the center console
- Connectors, refer to ⇒ [“2.6.6 Navigation System with CD Drive Control Module, Harness Connectors”, page 49](#) .
- Removing and installing, refer to ⇒ [“4.8 Navigation System with CD Drive Control Module”, page 106](#)

2.6.8 Roadster Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

2 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

3 - Navigation System Antenna -R50-

- Behind Front Interior Light
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

4 - Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

5 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- In left and right rear wall
- Removing and installing, refer to ⇒ [“4.4.5 Left Rear Mid/Low Range Speaker, Roadster”, page 91](#)

6 - Antenna Selection Control Module -J515-

- Inside the luggage compartment under the luggage compartment floor covering in the center
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

7 - Antenna Amplifier 2 -R111-

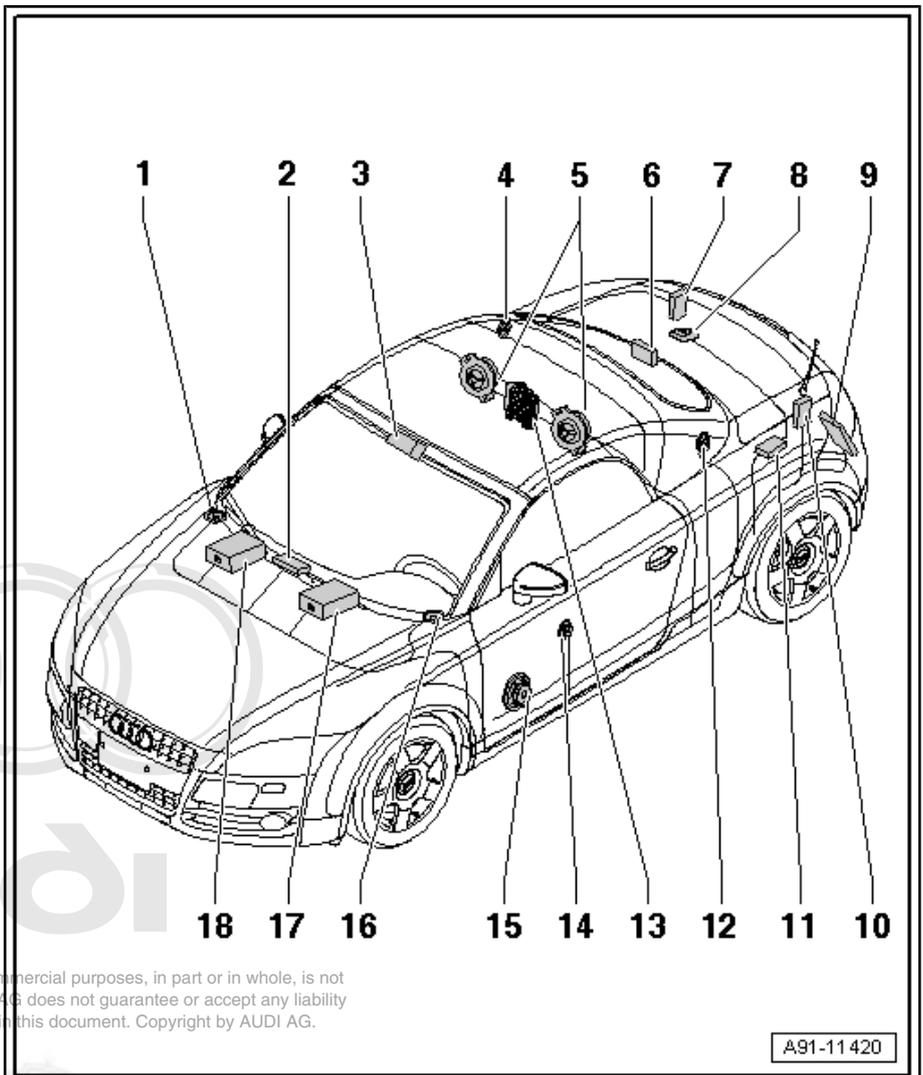
- Behind right side of rear lid
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

8 - Satellite Antenna -R170-

- On rear lid
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

9 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)



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- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

10 - Antenna Amplifier -R24-

- Left rear mast antenna base
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

11 - Satellite Radio -R146-

- Inside the luggage compartment on the left side under the luggage compartment floor covering
- Connectors. Refer to ⇒ [“2.1.5 Satellite Radio Connectors, Through 10/06”, page 13](#) .
- Removing and installing, activating, refer to ⇒ [“4.3 Satellite Radio”, page 88](#)

12 - Left Rear Treble Speaker -R14-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

13 - Center speaker -R148-

- In center of rear wall
- Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)

14 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

15 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

16 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

17 - Navigation System with CD Drive Control Module -J401-

- In the top of the center console
- Connectors, refer to ⇒ [“2.6.6 Navigation System with CD Drive Control Module, Harness Connectors”, page 49](#) .
- Removing and installing, refer to ⇒ [“4.8 Navigation System with CD Drive Control Module”, page 106](#)

18 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#) .
- Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
- Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)

- External audio source connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source) refer to ⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
- AUX IN Connectors, refer to ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
- Removing and installing (connection for an external audio source), refer to ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)

- ❑ AUX IN, Removing and Installing, refer to
 ⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

2.7 Navigation System RNS-JP4

2.7.1 JP4 Coupe, Overview

1 - Rear Window Antennas

2 - Radio, Telephone, Navigation System Antenna -R52- (GPS/GSM) Roof Antenna

3 - GPS Connection (Blue) From Radio, Telephone, Navigation System Antenna -R52-

4 - 12-pin Black Multi-pin Connector (T12h) From Digital Sound System Control Module -J525-

5 - Digital Sound System Control Module -J525- Behind The Luggage Compartment Left Side Trim

6 - Sound Systems

7 - 2-pin Black Multi-pin Voltage Supply Connection (T2I)

8 - Black 2-pin Multi-pin CAN BUS (Infotainment) Connection (T2m)

9 - TV3/TV4 Connection (Green) From Antenna Amplifier 4 -R113-

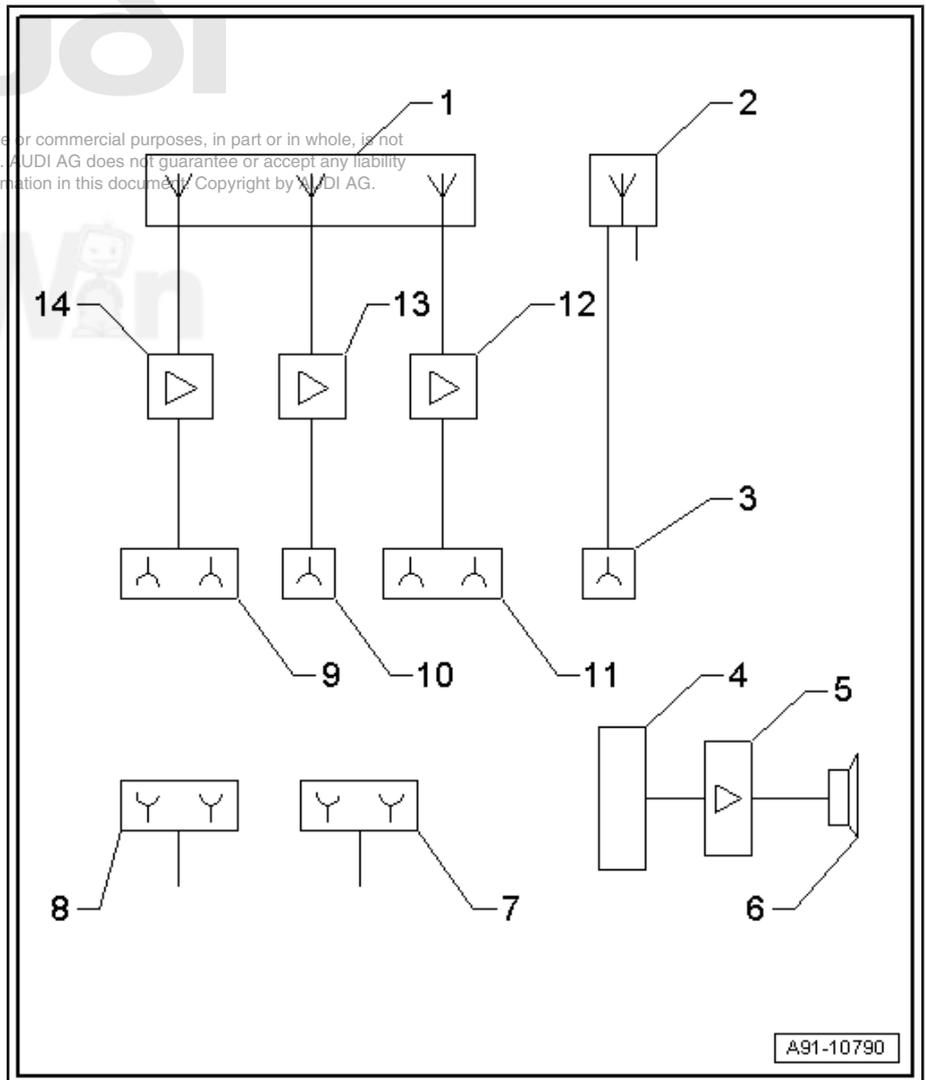
10 - AM/FM1 Connection (White) Antenna Amplifier - R24-

11 - TV1/TV2 Connection (Brown) From Antenna Amplifier 2 -R111-

12 - Antenna Amplifier 2 - R111- On Lower Right Area Of Rear Lid

13 - Antenna Amplifier -R24- On Upper Right Side Of Rear Lid

14 - Antenna Amplifier 4 -R113- On Upper Left Of Rear Lid



2.7.2 JP4 Roadster, Overview

1 - Radio Antenna 2 -R93- (FM2/TV1) Behind Right Side Of Rear Lid

2 - Antenna (TV2) Right Of Windshield

3 - Antenna -R11- (AM/FM1) Left Rear Mast Antenna

4 - Antenna (TV3) Left Of Windshield

5 - Navigation System Antenna -R50- Behind Front Interior Light -W1-

6 - GPS Connection (Blue) From Navigation System Antenna -R50-

7 - 12-pin Black Multi-Pin Connector (T12h) From Digital Sound System Control Module -J525-

8 - Digital sound system control module -J525- Behind The Luggage Compartment Left Side Trim

9 - Sound Systems

10 - 2-pin Black Multi-Pin Voltage Supply Connection (T2I)

11 - Black 2-pin Multi-pin CAN BUS (Infotainment) Connection (T2m)

12 - TV1/TV2 Connection (Brown) From Antenna Amplifier 2 -R111- / TV Antenna 2 -R56-

13 - AM/FM1 connection (white) from Antenna Amplifier -R24-

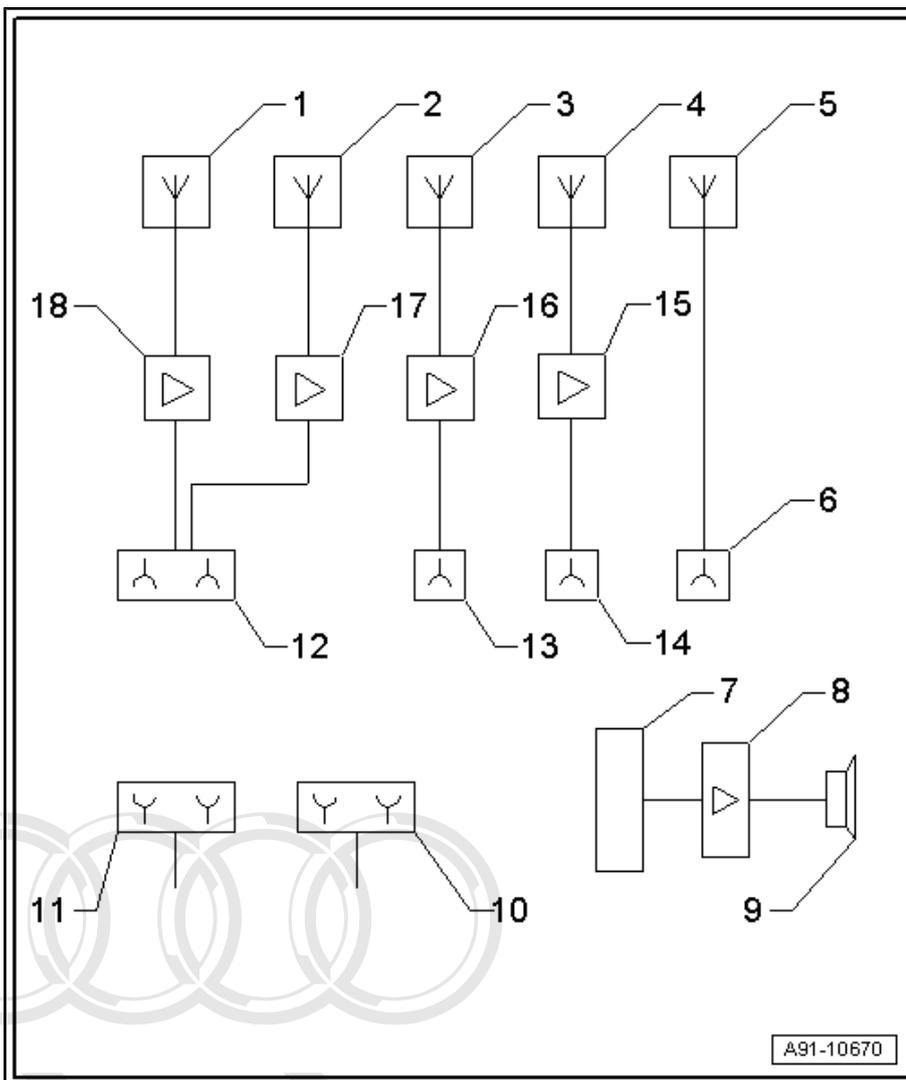
14 - TV3 Connection (Green) From TV Antenna 3 -R57-

15 - TV Antenna 3 -R57- Behind The Left A-Pillar Trim

16 - Antenna Amplifier -R24- Left Rear Mast Antenna Base

17 - TV Antenna 2 -R56- Behind The Right A-Pillar Trim

18 - Antenna Amplifier 2 -R111- Behind Right Side Of Rear Lid



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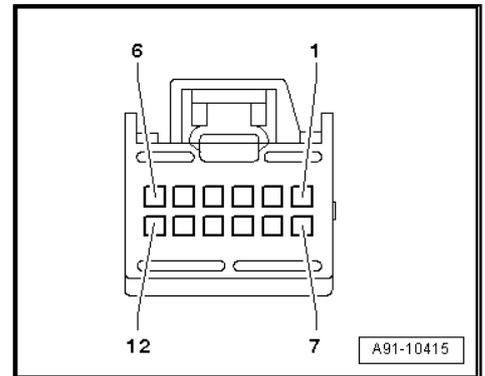
2.7.3 Sound system Connectors and Connector Assignments



Unlisted connector terminals are not assigned.

Black 12-pin multi-pin harness connector (T12h)

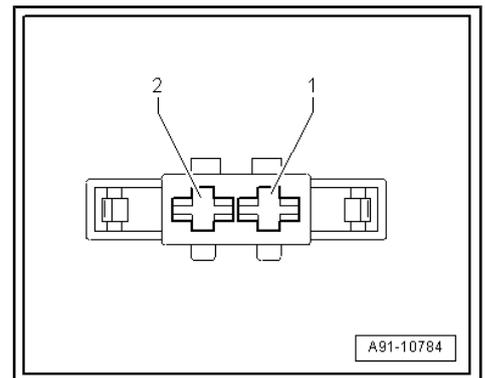
- 2 - Right rear signal (+) to digital sound system control module
- 3 - Right rear signal (-) to digital sound system control module
- 4 - Positive switched to digital sound system control module
- 5 - Left rear signal (-) to Digital sound system control module
- 6 - Left rear signal (+) to digital sound system control module
- 8 - Right front signal (+) to digital sound system control module
- 9 - Right front signal (-) to digital sound system control module
- 11 - Left front signal (-) to digital sound system control module
- 12 - Left front signal (+) to digital sound system control module



2.7.4 CAN BUS, voltage supply Connectors and Connector Assignments

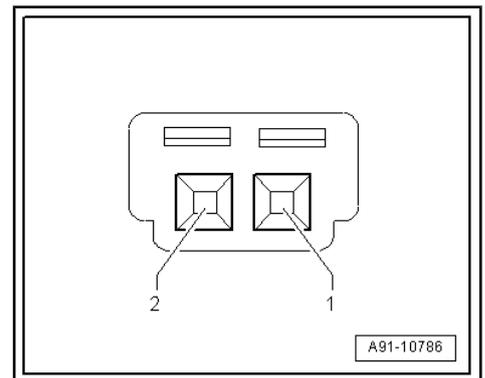
Black 2-pin multi-pin connector (T2m)

- 1 - Terminal 30
- 2 - Terminal 31



Black 2-pin multi-pin connector (T2l)

- 1 - CAN-Bus High (Infotainment)
- 2 - CAN-Bus Low (Infotainment)



2.7.5 Antenna Connectors and Connector Assignments

Connectors

1 - GPS connection (blue) from radio, telephone, navigation system antenna (Coupe)

-- GPS connection (blue) from navigation system antenna (Roadster)

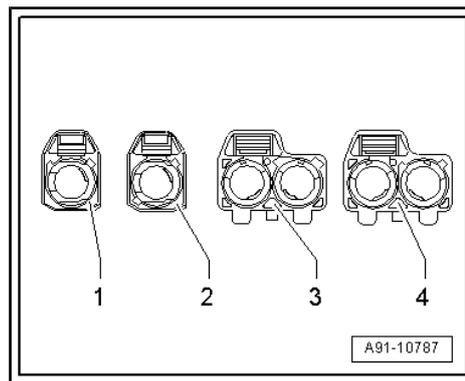
2 - AM/FM1 connection (white) antenna amplifier

3 - TV3/TV4 connection (green) from antenna amplifier 4 (Coupe)

- TV3 connection (green) from TV antenna 3 (Roadster)

4 - TV1/TV2 connection (brown) antenna amplifier 2 (Coupe)

- TV1/TV2 connection (brown) antenna amplifier 2/TV antenna 2 (Roadster)



2.7.6 Coupe Component Locations, General Overview

1 - Left Front Treble Speaker - R20-

- In right of instrument panel
- Removing and installing, refer to [⇒ "4.4.6 Left Front Treble Speaker", page 92](#)

2 - CD Changer -R41-

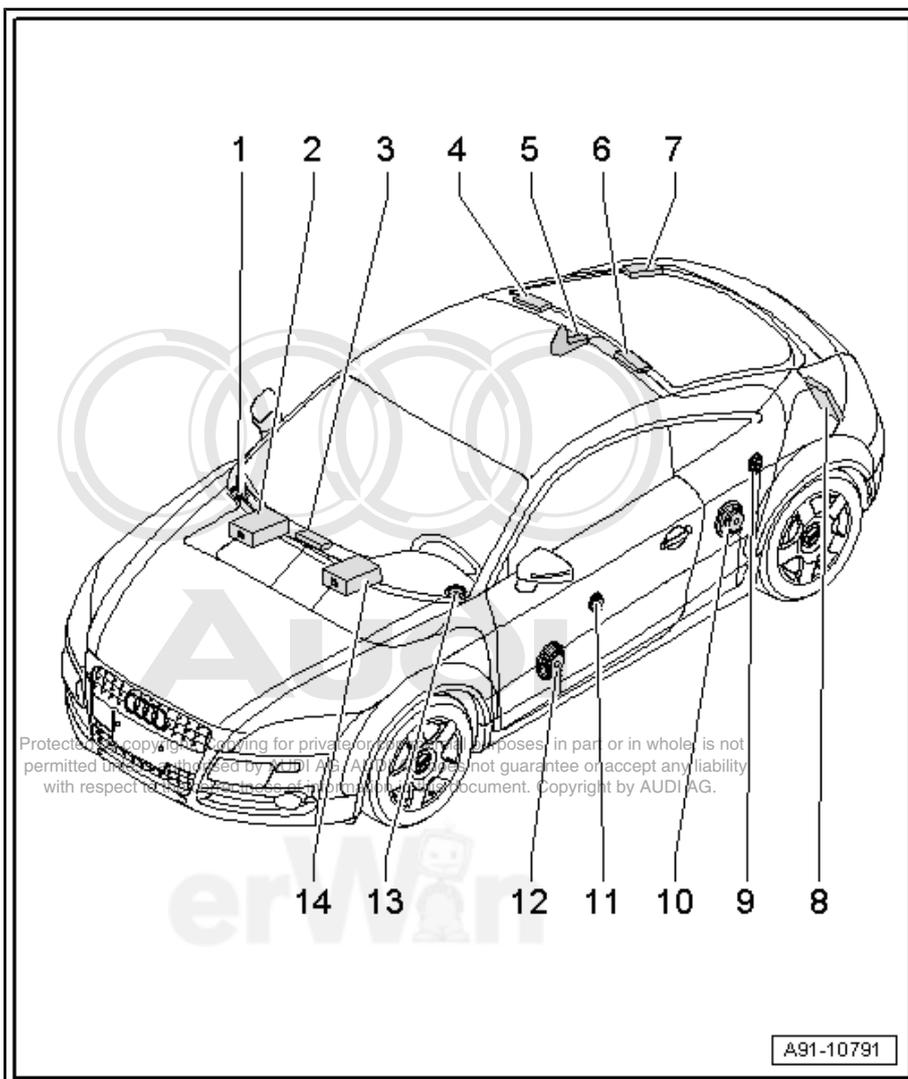
- In the glove compartment
- Connectors, refer to [⇒ "2.10 CD Changer Harness Connectors", page 80](#)
- Removing and installing, refer to [⇒ "4.10 CD Changer", page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to [⇒ "2.11 iPod Baseplate, Connections", page 81](#)
- Removing and installing, refer to [⇒ "4.11 iPod Baseplate", page 108](#)

- External audio source connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source), refer to [⇒ "2.12 External Audio Source Connection Connectors, AMI", page 81](#)



- AUX IN Connectors, refer to
 ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
 - Removing and installing (connection for an external audio source), refer to
 ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)
 - AUX IN, Removing and Installing, refer to
 ⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .
- 3 - Center Mid/High Range Loudspeaker -R158-**
- In front instrument panel, center
 - Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)
- 4 - Antenna Amplifier -R24-**
- On upper right of rear lid
 - Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)
- 5 - Radio, Telephone, Navigation System Antenna -R52-**
- GPS/GSM
 - Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)
- 6 - Antenna Amplifier 4 -R113-**
- On upper left of rear lid
 - Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)
- 7 - Antenna Amplifier 2 -R111-**
- On lower right of rear lid
 - Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)
- 8 - Digital Sound System Control Module -J525-**
- Behind the luggage compartment left side trim
 - Connectors through MY 2008, refer to
 ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
 - Connectors from MY 2009, refer to
 ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
 - Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
 - BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
 - BOSE, removing and installing, refer to
 ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)
- 9 - Left Rear Treble Speaker -R14- / Right Rear Treble Speaker -R16-**
- In upper right side trim
 - Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)
- 10 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-**
- Behind rear side trim
 - Removing and installing, refer to ⇒ [“4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe”, page 91](#)
- 11 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-**
- In center of doors
 - Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)
- 12 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-**
- In bottom of doors
 - Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)
- 13 - Right Front Treble Speaker -R22-**
- In left of instrument panel
 - Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)
- 14 - RNS-JP4 Connections/Antenna Connections**
- In the top of the center console
 - Connectors, refer to ⇒ [“2.7.5 Antenna Connectors and Connector Assignments”, page 58](#) .

2.7.7 Roadster Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

2 - TV Antenna 2 -R56-

- Behind the A-pillar trim on the right side
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

3 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

4 - Navigation System Antenna -R50-

- Behind Front Interior Light
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

5 - Microphone unit in front roof module -R164-

- In Front Interior Light
- Overview, refer to ⇒ [“2.2.6 Front Roof Module Microphone Unit Overview”, page 24](#)
- Removing and installing, refer to ⇒ [“4.4.12 Microphone Unit in Front Roof Module”, page 94](#)

6 - Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

7 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- In rear wall
- Removing and installing, refer to ⇒ [“4.4.5 Left Rear Mid/Low Range Speaker, Roadster”, page 91](#)

8 - Antenna Amplifier 2 -R111-

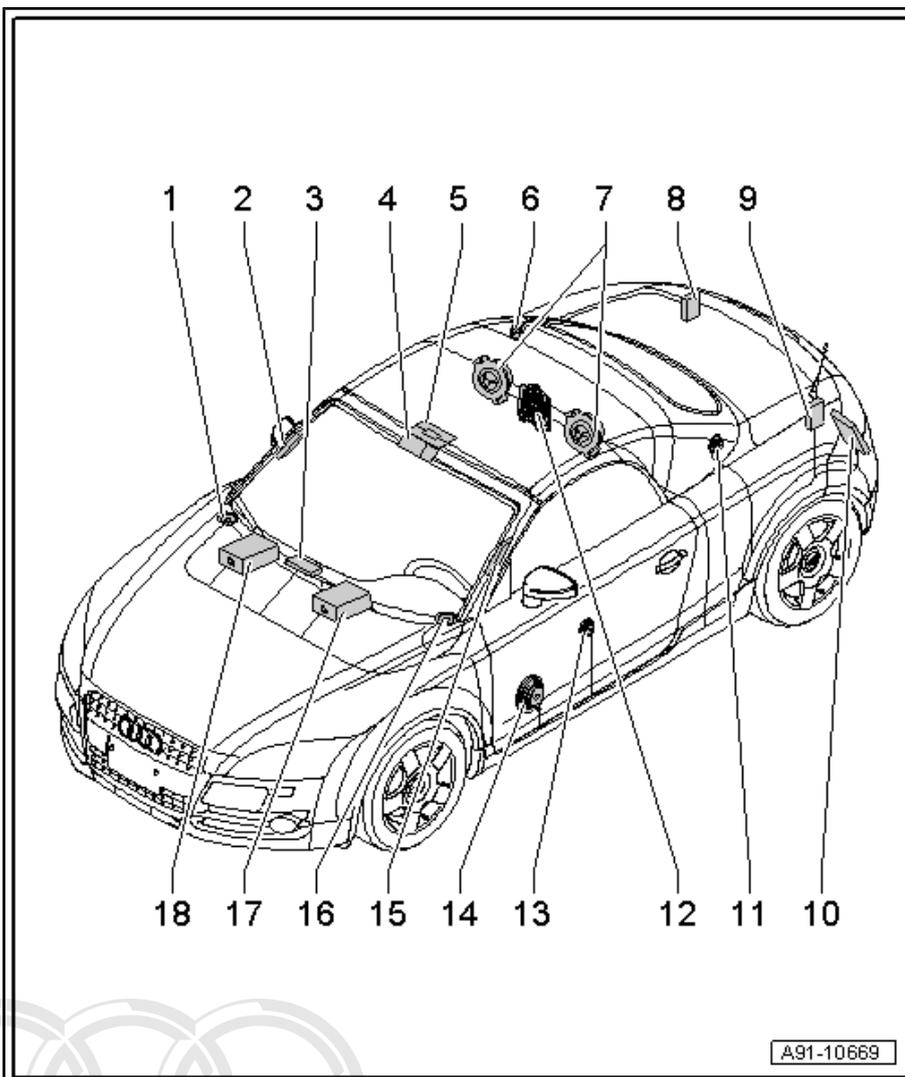
- Behind right side of rear lid
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

9 - Antenna Amplifier -R24-

- Left rear mast antenna base
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

10 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim



- Connectors through MY 2008, refer to
 ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to
 ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to
 ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

11 - Left Rear Treble Speaker -R14-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

12 - Center Speaker -R148-

- In center of rear wall
- Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)

13 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

14 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

15 - TV Antenna 3 -R57-

- Behind the A-pillar trim on the left side
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

16 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

17 - RNS-JP4 Connections/Antenna Connections

- In the top of the center console
- Connectors, refer to ⇒ [“2.7.5 Antenna Connectors and Connector Assignments”, page 58](#) .

18 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#) .
- Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
- Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)

- External audio source connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source), refer to
 ⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
- AUX IN Connectors, refer to
 ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
- Removing and installing (connection for an external audio source), refer to
 ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)
- AUX IN, Removing and Installing, refer to
 ⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

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2.8 Navigation System RNS JP5

⇒ [“2.8.1 JP5 Coupe”, page 62](#)

⇒ [“2.8.2 JP5 Roadster”, page 63](#)

⇒ [“2.8.3 Connectors and Connector Assignments”, page 64](#)

⇒ [“2.8.4 Coupe Component Locations, General Overview”, page 66](#)

⇒ [“2.8.5 Roadster Component Locations, General Overview”, page 68](#)

2.8.1 JP5 Coupe

1 - Rear window antennas

2 - Radio, Telephone, Navigation System Antenna -R52- (GPS/GSM) roof antenna

3 - Microphone Unit (In Front Roof Module) -R164- in Front Interior Light -W1-

4 - Black 4-pin Connector

5 - GPS Connection (Blue) From Radio, Telephone, Navigation System Antenna -R52-

6 - Black 12-pin Connector (T12) Digital Sound System Control Module -J525-

7 - Digital Sound System Control Module -J525- Behind The Luggage Compartment Left Side Trim

8 - Sound Systems

9 - TV Card Reader -R204- Inside The Glove Compartment With T12

10 - Black 12-pin Connector

11 - 2-pin Black Multi-pin Voltage Supply Connection (T2I)

12 - Black 2-pin Multi-pin CAN BUS (Infotainment) Connection (T2m)

13 - TV3/TV4 Connection (Green) From Antenna Amplifier 4 -R113-

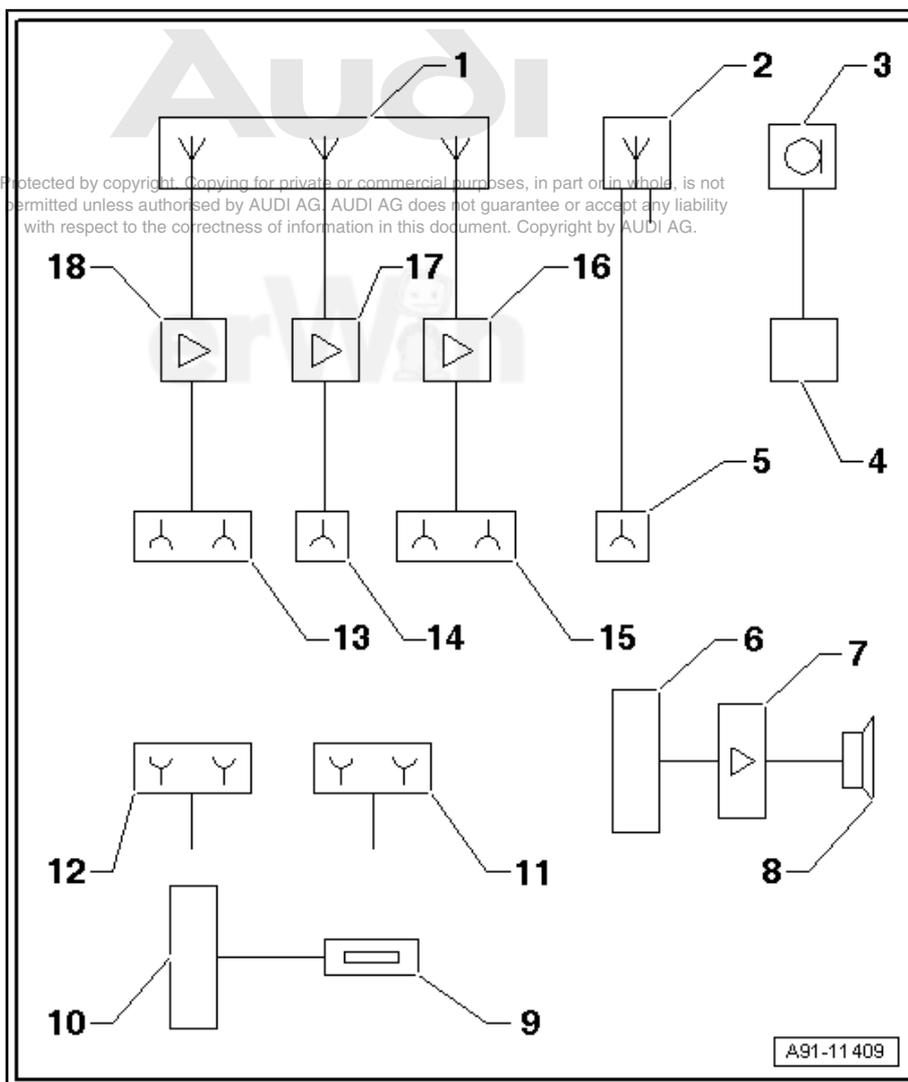
14 - AM/FM1 Connection (White) Antenna Amplifier -R24-

15 - TV1/TV2 Connection (Brown) From Antenna Amplifier 2 -R111-

16 - Antenna Amplifier 2 -R111- On Lower Right Area Of Rear Lid

17 - Antenna Amplifier -R24- On Upper Right Side Of Rear Lid

18 - Antenna Amplifier 4 -R113- On Upper Left Of Rear Lid



A91-11 409

2.8.2 JP5 Roadster

1 - FM2/TV 1 Antenna Behind The Rear Lid End Piece On The Right Side

2 - TV 1 Antenna On The Right Side Of The Windshield

3 - AM/FM1 Rear Mast Antenna On The Left Side

4 - Antenna TV3 Left Of Windshield

5 - Navigation System Antenna -R50- Behind Front Interior Light -W1-

6 - Microphone Unit (in front roof module) -R164- In Front Interior Light -W1-

7 - Black 4-pin Connector

8 - GPS Connection (blue) From Navigation System Antenna -R50-

9 - Black 12-pin Connector (T12) Digital Sound System Control Module -J525-

10 - Digital Sound System Control Module -J525- Behind The Luggage Compartment Left Side Trim

11 - Sound Systems

12 - Tv Card Reader -R204- Inside The Glove Compartment With T12

13 - Black 12-pin Connector

14 - 2-pin Black Multi-pin Voltage Supply Connection (T2I)

15 - Black 2-pin Multi-pin CAN BUS (Infotainment) Connection (T2m)

16 - TV1/TV2 Connection (Brown) From Antenna Amplifier 2 -R111- / TV Antenna 2 -R56-

17 - AM/FM1 Connection (White) Antenna Amplifier -R24-

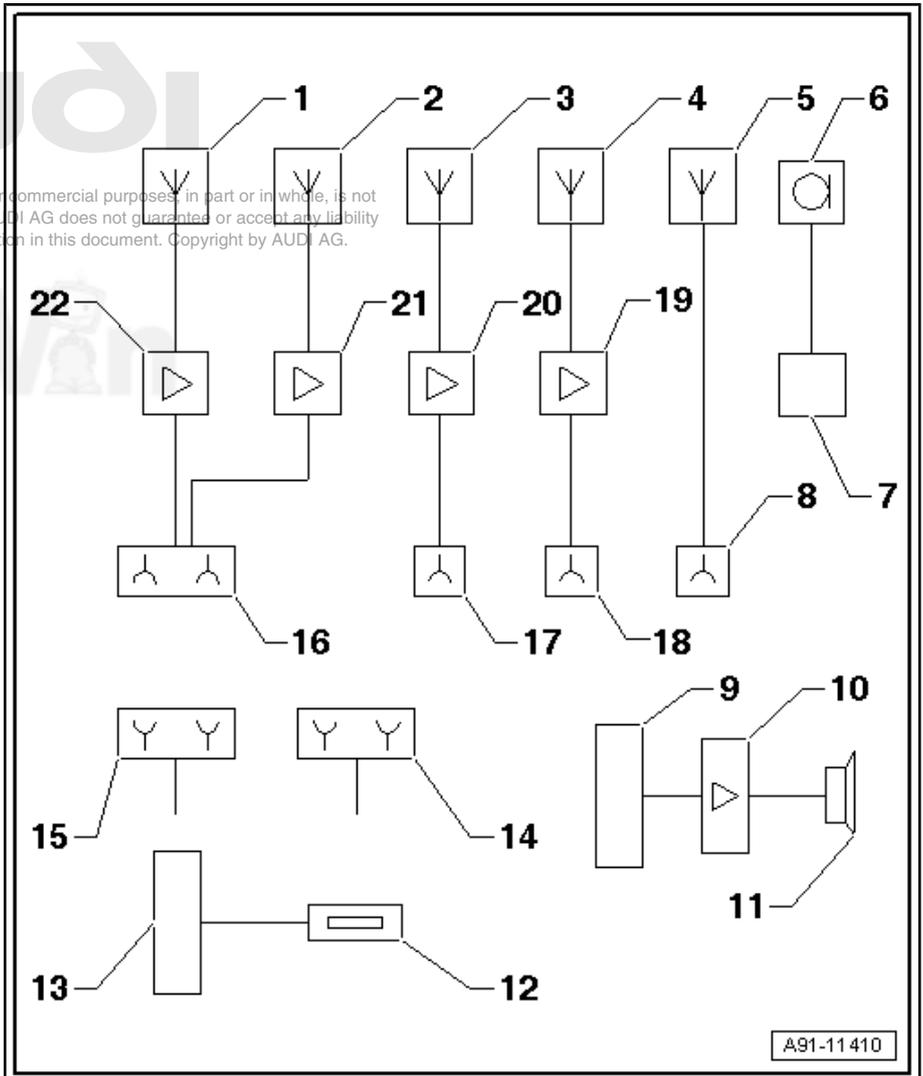
18 - TV3 Connection (Green) From TV Antenna 3 -R57-

19 - TV Antenna 3 -R57- Behind The Left A-Pillar Trim

20 - Antenna Amplifier -R24- Left Rear Mast Antenna Base

21 - TV Antenna 2 -R56- Behind The Right A-Pillar Trim

22 - Antenna Amplifier 2 -R111- Behind The Rear Lid End Piece On The Right Side



2.8.3 Connectors and Connector Assignments



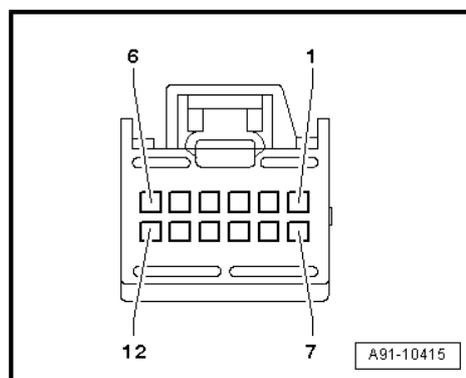
Note

Unlisted connector terminals are not assigned.

Sound system

Black 12-pin multi-pin harness connector (T12h)

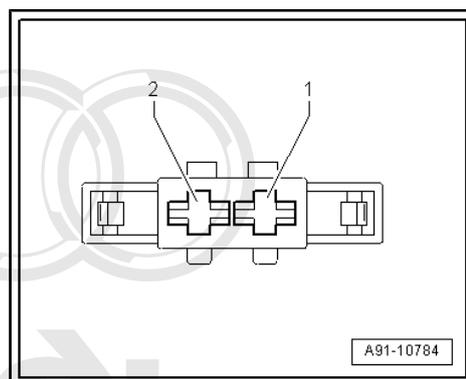
- 2 - Right rear signal (+) to Digital Sound System Control Module
- 3 - Right rear signal (-) to Digital Sound System Control Module
- 4 - Positive switched to Digital Sound System Control Module
- 5 - Left rear signal (-) to Digital Sound System Control Module
- 6 - Left rear signal (+) to Digital Sound System Control Module
- 8 - Right front signal (+) to Digital Sound System Control Module
- 9 - Right front signal (-) to Digital Sound System Control Module
- 11 - Left front signal (-) to Digital Sound System Control Module
- 12 - Left front signal (+) to Digital Sound System Control Module



Voltage supply, CAN Bus, TV card reader

Black 2-pin multi-pin connector (T2m)

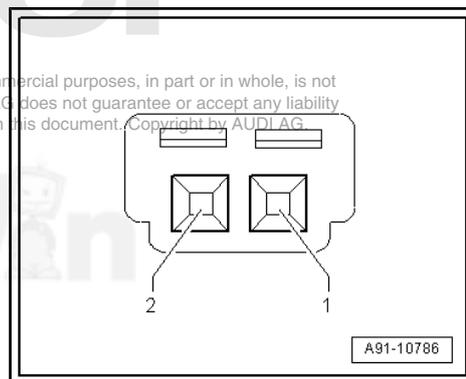
- 1 - Terminal 30
- 2 - Terminal 31



Black 2-pin multi-pin connector (T2l)

- 1 - CAN-Bus High (Infotainment)
- 2 - CAN-Bus Low (Infotainment)

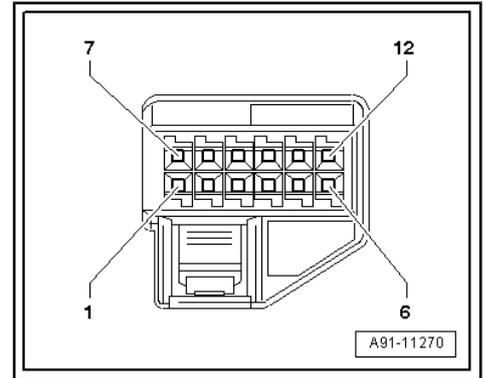
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Black 12-pin connector

All pins are connected to the TV card reader.

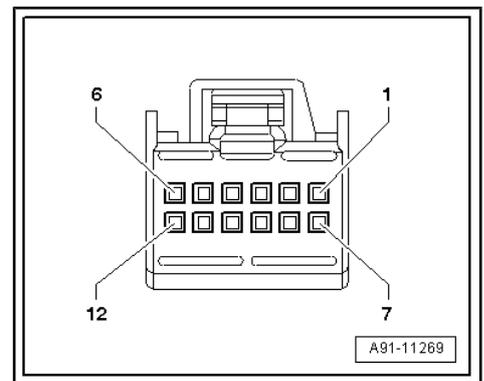
- 1 - VDDP
- 2 - Ground (GND)
- 3 - VDD
- 4 - CMDVCC
- 5 - CLKDIV2
- 6 - CLKDIV1
- 7 - OFF
- 8 - Ground (GND)
- 9 - Ground (GND)
- 10 - I/OUC
- 11 - Ground (GND)
- 12 - RSTIN



Black 12-pin connector inside the glove compartment

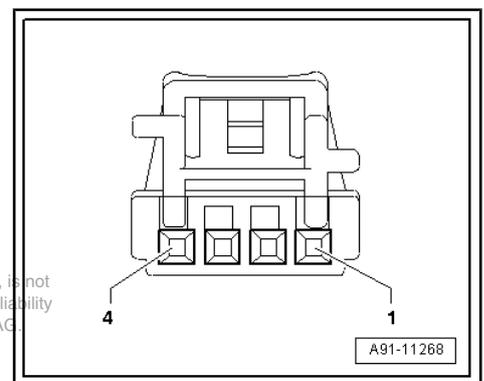
All pins are connected to the TV card reader.

- 1 - VDDP
- 2 - Ground (GND)
- 3 - VDD
- 4 - CMDVCC
- 5 - CLKDIV2
- 6 - CLKDIV1
- 7 - OFF
- 8 - Ground (GND)
- 9 - Ground (GND)
- 10 - I/OUC
- 11 - Ground (GND)
- 12 - RSTIN



Black 4-pin connector

- 1 - Telephone microphone (+):
- 2 - Telephone microphone (-):

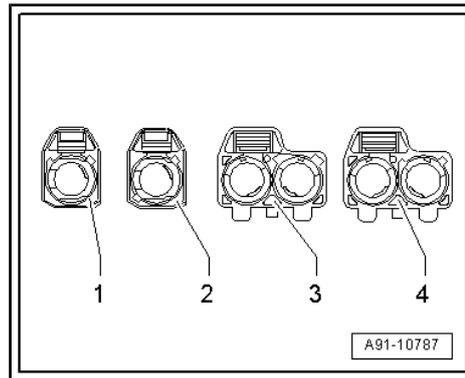


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Antennas

- 1 - GPS connection (blue) from radio, telephone, navigation system antenna (Coupe)
- - GPS connection (blue) from navigation system antenna (Roadster)
- 2 - AM/FM1 connection (white) antenna amplifier
- 3 - TV3/TV4 connection (green) from antenna amplifier 4 (Coupe)
- TV3/TV 4 connection (green) from TV antenna 3 (Roadster)
- 4 - TV1/TV2 connection (brown) antenna amplifier 2 (Coupe)
- TV1/TV2 connection (brown) TV antenna 2 (Roadster)



2.8.4 Coupe Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to [⇒ "4.4.6 Left Front Treble Speaker", page 92](#)

2 - CD Changer -R41-

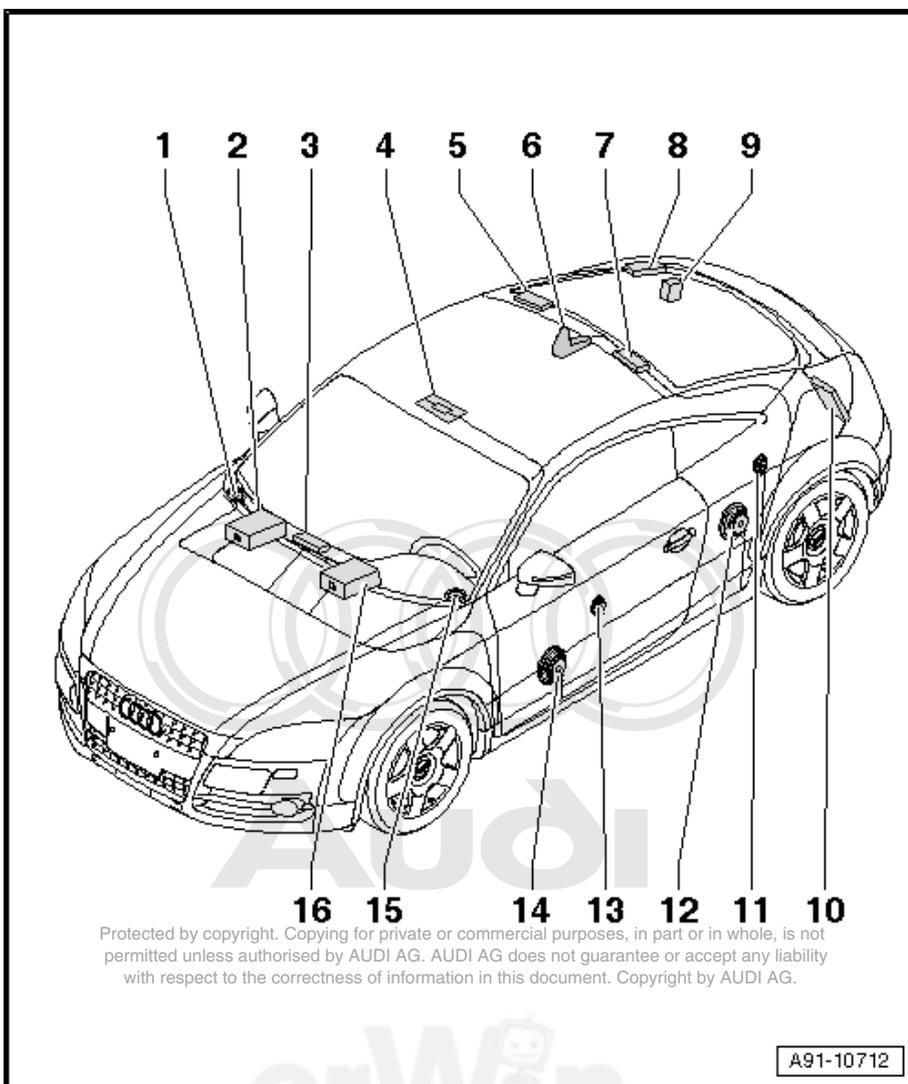
- In the glove compartment
- Connectors, refer to [⇒ "2.10 CD Changer Harness Connectors", page 80](#)
- Removing and installing, refer to [⇒ "4.10 CD Changer", page 107](#)

- iPod Baseplate -R192-

- In the glove compartment
- Connectors, refer to [⇒ "2.11 iPod Baseplate, Connections", page 81](#)
- Removing and installing, refer to [⇒ "4.11 iPod Baseplate", page 108](#)

- External Audio Source Connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source), refer to [⇒ "2.12 External Audio Source Connection Connectors, AMI", page 81](#)
- AUX IN Connectors, refer to [⇒ "2.13 AUX IN External Audio Source Connection Connectors", page 82](#)
- Removing and installing (connection for an external audio source), refer to [⇒ "4.12 AMI External Audio Source Connection", page 108](#)



- AUX IN, Removing and Installing, refer to
⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

3 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

4 - Microphone Unit In Front Roof Module -R164-

- In Front Interior Light
- Overview, refer to ⇒ [“2.2.6 Front Roof Module Microphone Unit Overview”, page 24](#)
- Removing and installing, refer to ⇒ [“4.4.12 Microphone Unit in Front Roof Module”, page 94](#)

5 - Antenna Amplifier -R24-

- On upper right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

6 - Radio, Telephone, Navigation System Antenna -R52-

- GPS/GSM
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

7 - Antenna Amplifier 4 -R113-

- On upper left of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

8 - Antenna Amplifier 2 -R111-

- On lower right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

9 - not installed

10 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to
⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to
⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to
⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

11 - Left Rear Treble Speaker -R14- / Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

12 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- Behind rear side trim
- Removing and installing, refer to ⇒ [“4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe”, page 91](#)

13 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

14 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

15 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

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16 - RNS-JP5 Connections/Antenna Connections

- In the top of the center console
- Connectors, refer to ⇒ [“2.8.3 Connectors and Connector Assignments”, page 64](#) .

2.8.5 Roadster Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

2 - TV Antenna 2 -R56-

- Behind the A-pillar trim on the right side
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

3 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ [“4.4.8 Center Mid/High Range Speaker”, page 93](#)

4 - Navigation System Antenna -R50-

- Behind front interior light
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

5 - Microphone Unit In Front Roof Module -R164-

- In front interior light
- Overview, refer to ⇒ [“2.2.6 Front Roof Module Microphone Unit Overview”, page 24](#)
- Removing and installing, refer to ⇒ [“4.4.12 Microphone Unit in Front Roof Module”, page 94](#)

6 - Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

7 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

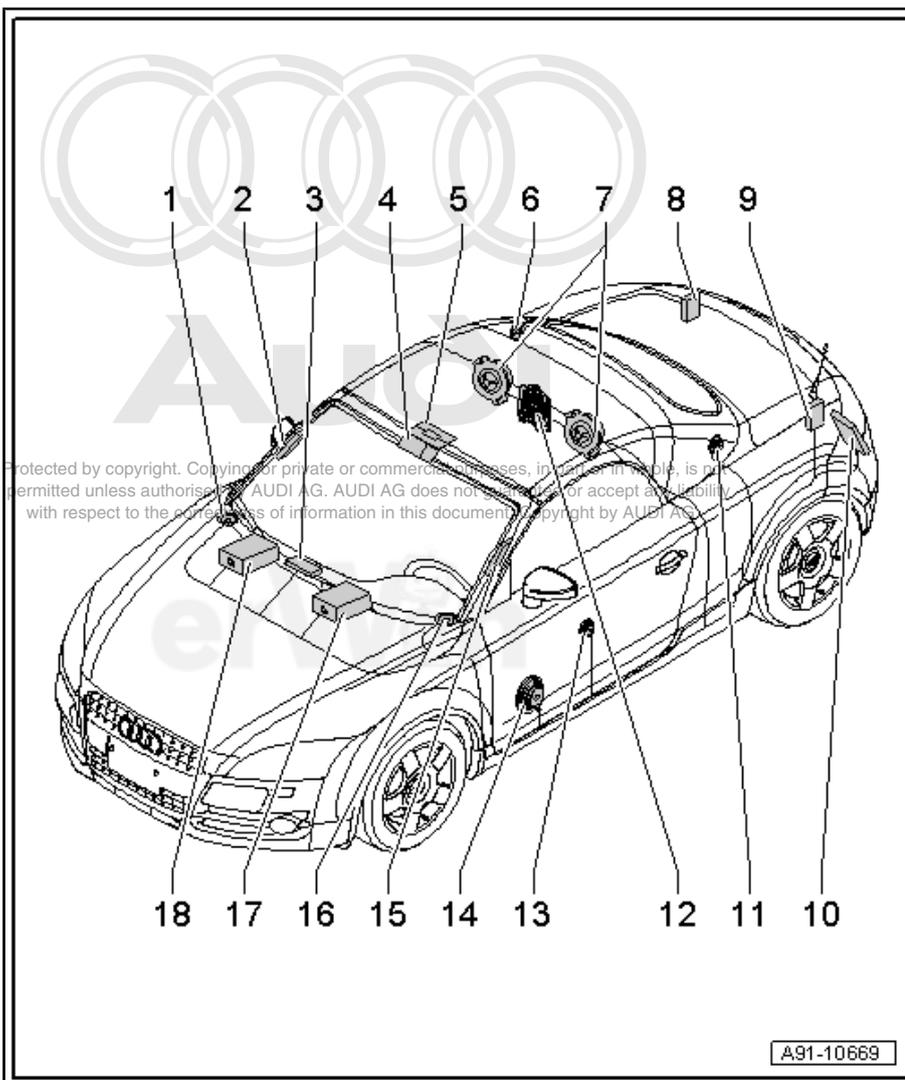
- In rear wall
- Removing and installing, refer to ⇒ [“4.4.5 Left Rear Mid/Low Range Speaker, Roadster”, page 91](#)

8 - Antenna Amplifier 2 -R111-

- Behind right side of rear lid
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

9 - Antenna Amplifier -R24-

- Left rear mast antenna base



- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

10 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

11 - Left Rear Treble Speaker -R14-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

12 - Center Speaker -R148-

- In center of rear wall
- Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)

13 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

14 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

15 - TV Antenna 3 -R57-

- Behind the A-pillar trim on the left side
- Overview, refer to ⇒ [“2.4.2 Antennas, Overview”, page 34](#)

16 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

17 - RNS-JP5 Connections/Antenna Connections

- In the top of the center console
- Connectors, refer to ⇒ [“2.8.3 Connectors and Connector Assignments”, page 64](#) .

18 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#) .
- Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)

- iPod Baseplate -R192-

- Connectors
- Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
- Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)

- External audio source connection -R199-

- Inside the glove compartment / center console
- Connectors (connection for an external audio source), refer to ⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
- AUX IN Connectors, refer to ⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
- Removing and installing (connection for an external audio source), refer to ⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)

- ❑ AUX IN, Removing and Installing, refer to
⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

2.9 RNS low navigation system

⇒ [“2.9.1 Coupe, Assembly Overview”, page 70](#)

⇒ [“2.9.2 Roadster, Assembly Overview”, page 71](#)

⇒ [“2.9.3 RNS Low, Coupe, Overview”, page 72](#)

⇒ [“2.9.4 RNS Low, Roadster, Overview”, page 73](#)

⇒ [“2.9.5 Radio/Navigation Display Control Module, Connections”, page 74](#)

⇒ [“2.9.6 Coupe Component Locations, General Overview”, page 76](#)

⇒ [“2.9.7 Roadster Component Locations, General Overview”, page 78](#)

2.9.1 Coupe, Assembly Overview

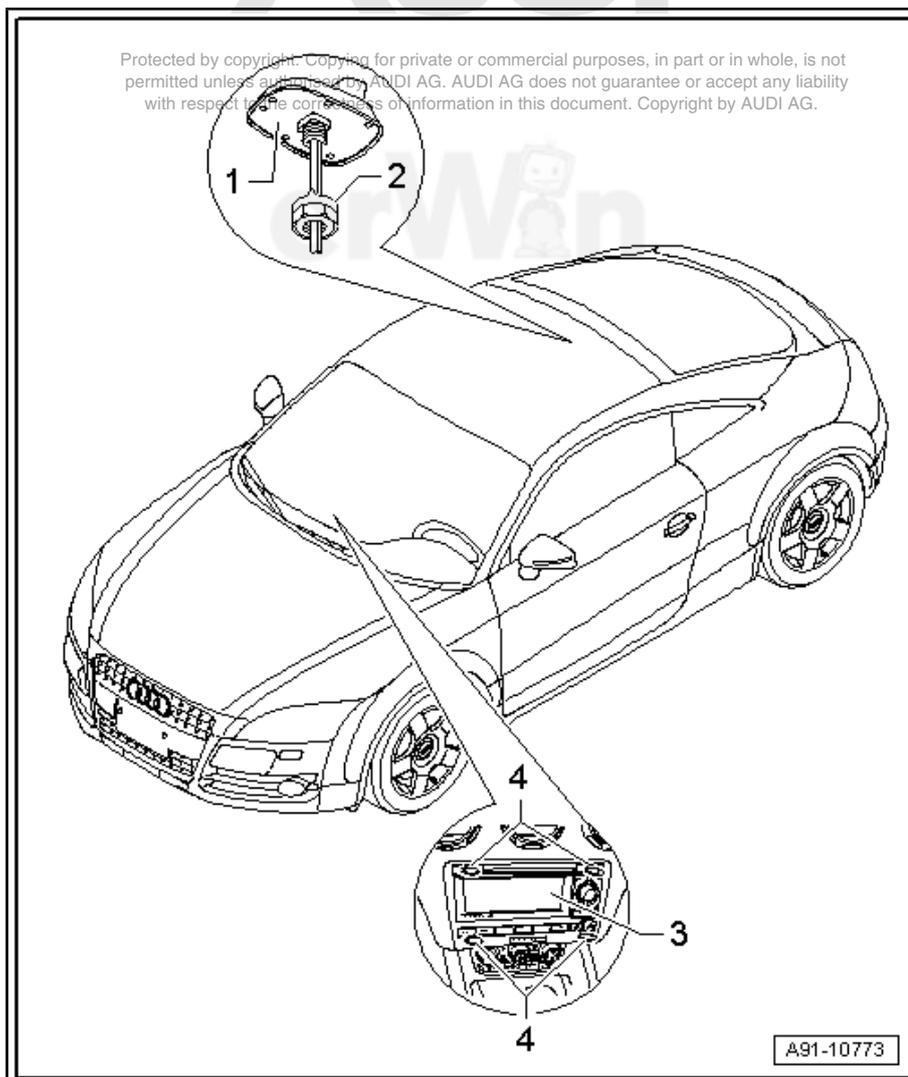
1 - Radio, Telephone, Navigation System Antenna -R52-

2 - Nut

- ❑ 6 Nm

3 - Radio/Navigation Display Control Module -J503-

4 - Radio Removal Tool - T10057-



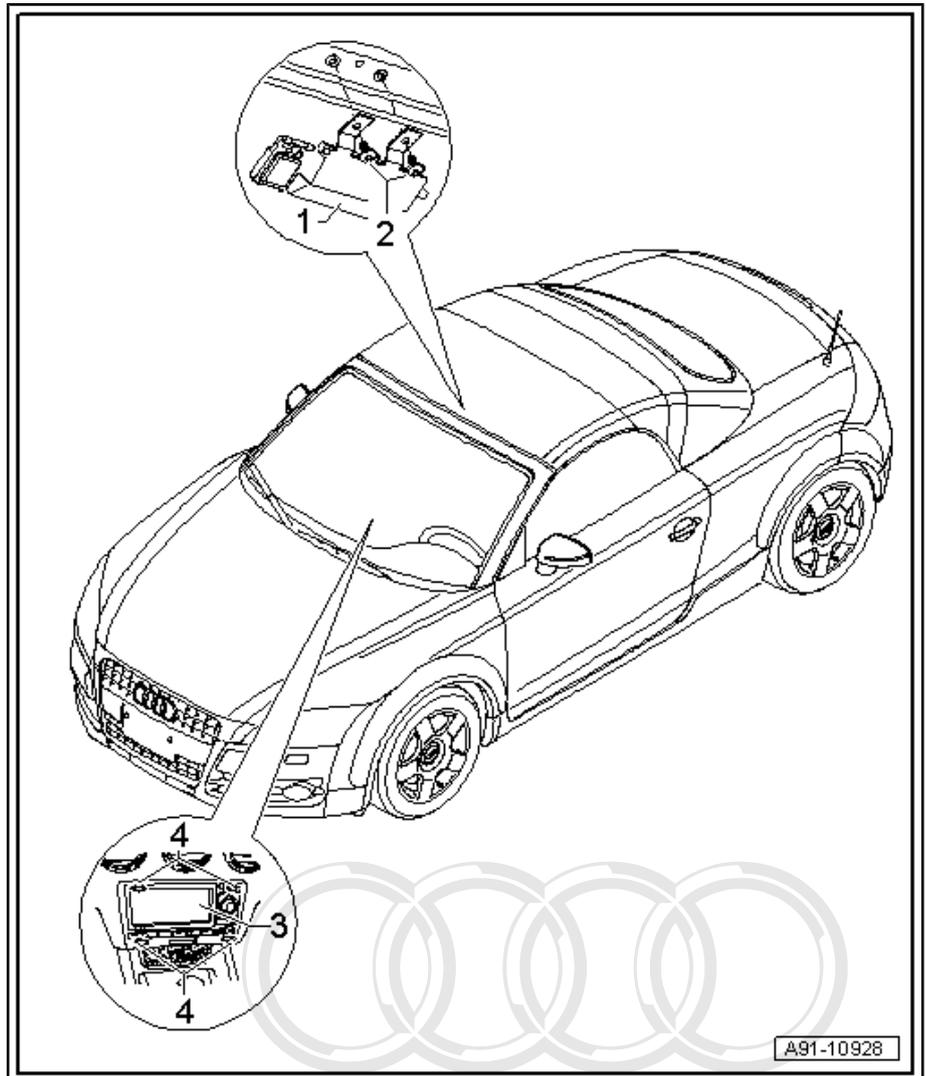
2.9.2 Roadster, Assembly Overview

1 - Navigation System Antenna
-R50- / Telephone Antenna -
R65-

2 - Screw
□ 2 Nm

3 - Radio/Navigation Display
Control Module -J503-

4 - Radio Removal Tool -
T10057-



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2.9.3 RNS Low, Coupe, Overview

1 - Rear Window Antennas

2 - Antenna Amplifier 2 -R111-
On Lower Right Area Of Rear
Lid

3 - Sound Systems

4 - Radio/Navigation Display
Control Module -J503- In Top
Of Center Console

5 - CD Changer -R41- / iPod
Baseplate -R192- Inside The
Glove Compartment

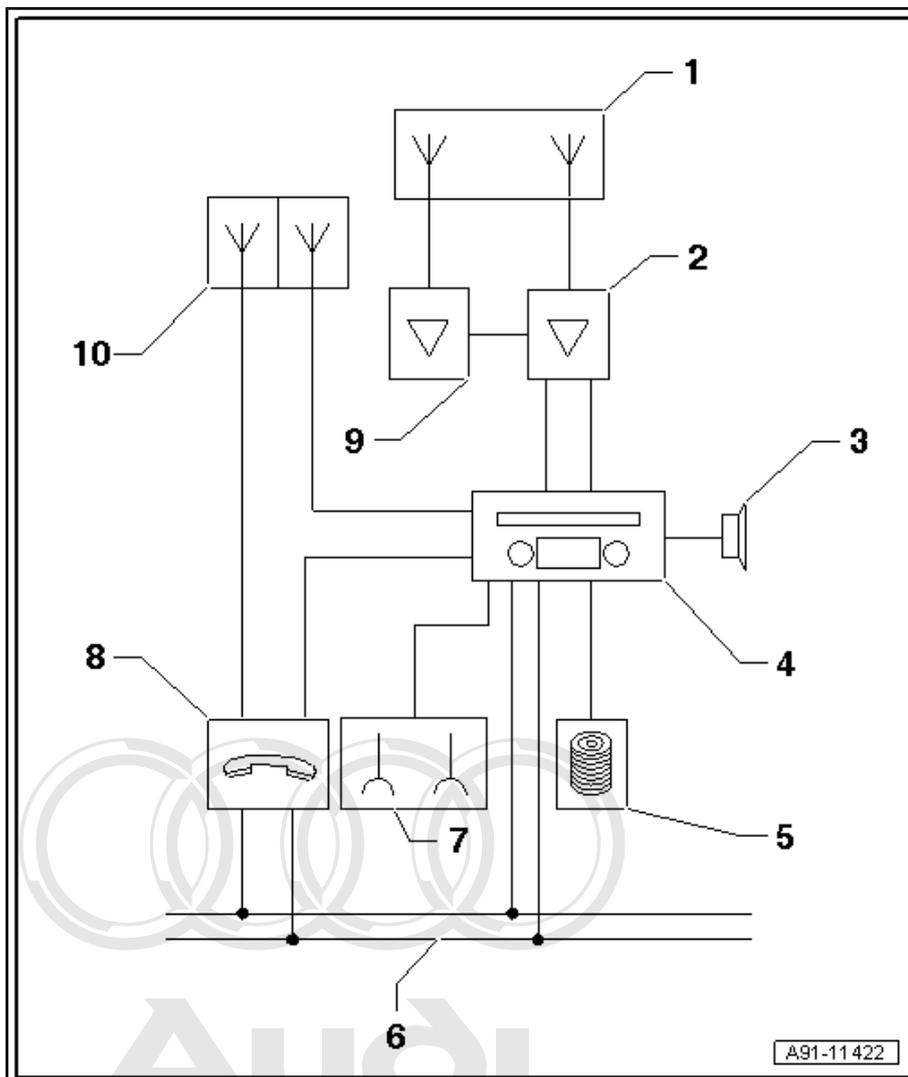
6 - CAN-BUS (Infotainment)

7 - External audio source con-
nection -R199- In The Center
Console Storage Compart-
ment

8 - Telephone Transceiver -
R36- In Electronics Box Under
Left Front Seat

9 - Antenna Amplifier -R24- On
Upper Right Side Of Rear Lid

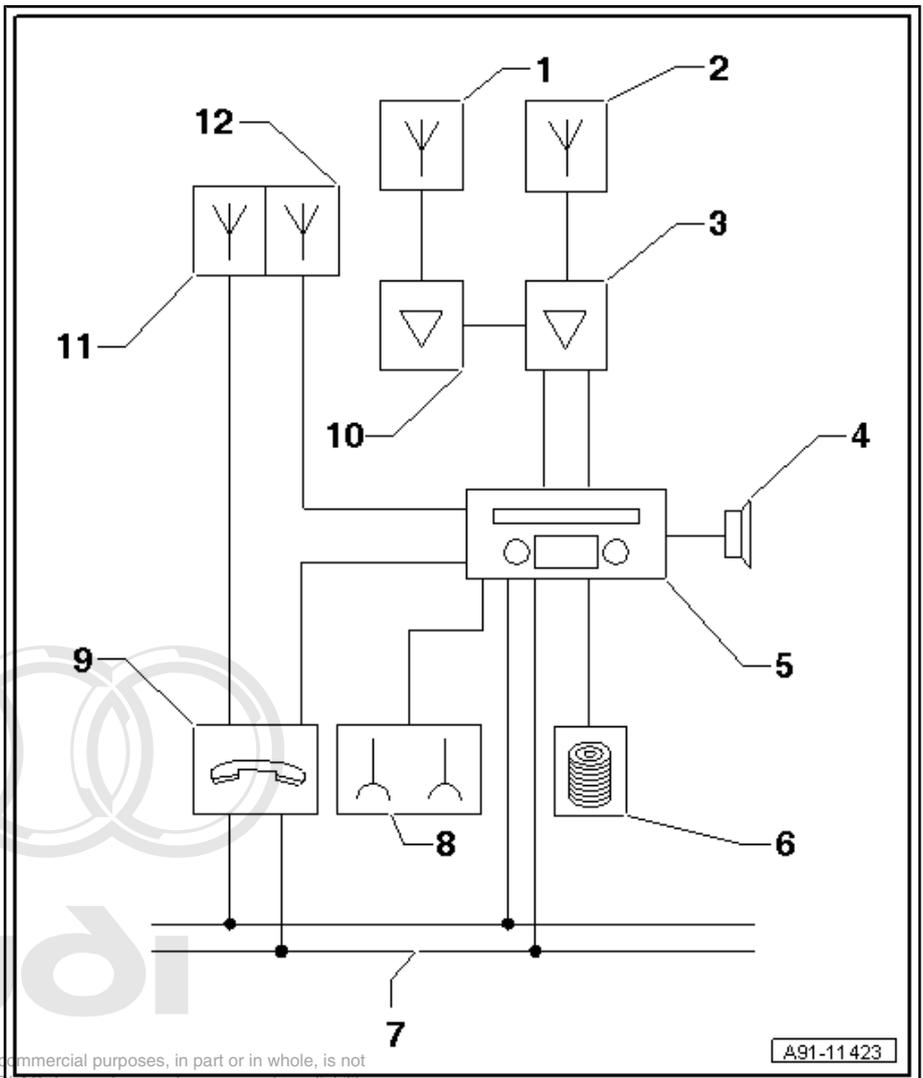
10 - Radio, Telephone, Navi-
gation System Antenna -R52-
Roof Antenna



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2.9.4 RNS Low, Roadster, Overview

- 1 - Antenna -R11- (AM/FM1) Left Rear Mast Antenna
- 2 - Radio Antenna 2 -R93- (FM2) Behind Right Side Of Rear Lid
- 3 - Antenna Amplifier 2 -R111- Behind Right Side Of Rear Lid
- 4 - Sound Systems
- 5 - Radio/Navigation Display Control Module -J503- In Top Of Center Console
- 6 - CD Changer -R41- / iPod Baseplate -R192- Inside The Glove Compartment
- 7 - CAN-BUS (Infotainment)
- 8 - External audio source connection -R199- In The Center Console Storage Compartment
- 9 - Telephone Transceiver - R36- In Electronics Box Under Left Front Seat
- 10 - Antenna Amplifier -R24- Left Rear Mast Antenna Base
- 11 - Telephone Antenna -R65- Behind Front Interior Light - W1-
- 12 - Navigation System Antenna -R50- Behind Front Interior Light -W1-



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2.9.5 Radio/Navigation Display Control Module, Connections

1 - Connection Block With Four Multi-Pin Connectors And A Fuse For Unit

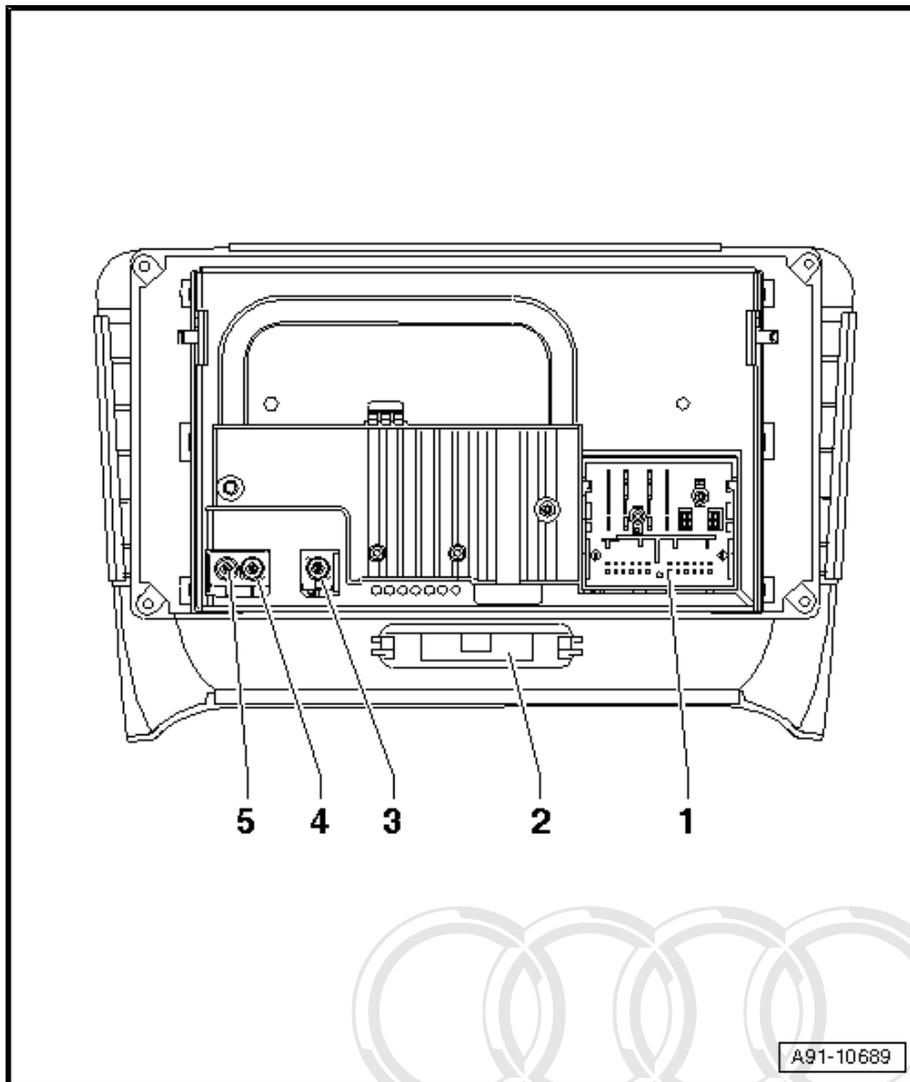
2 - Front Passenger's Airbag Disabled Indicator Lamp - K145-

3 - GPS Connection (Blue) From Radio, Telephone, Navigation System Antenna -R52- Coupe

- GPS Connection (Blue) From Navigation System Antenna - R50- Roadster

4 - IF Connection (White) To Antenna Amplifier 2 -R111-

5 - HF (white) Connection From Antenna Amplifier 2 - R111-



i Note

Unlisted connector terminals are not assigned.

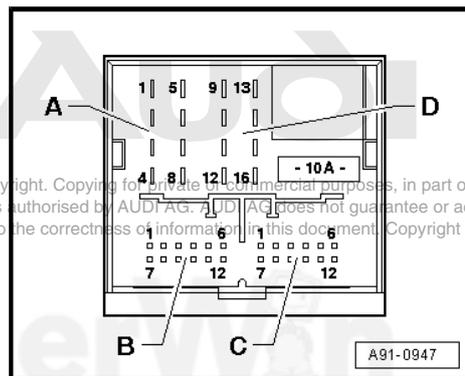
A - 8-pin multi-pin connector (T8b) brown

2 - Right front speaker (+) (not used)

3 - Left front speaker (+) (not used)

6 - Right front speaker (-) (not used)

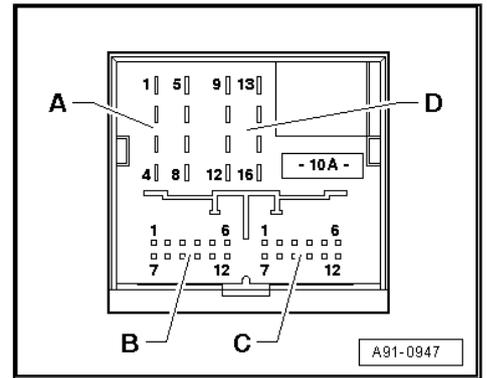
7 - Left front speaker (-) (not used)



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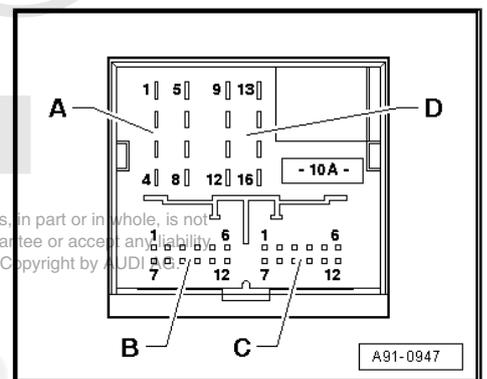
B - Multi-pin connector, 12-pin (T12f) blue

- 1 - Left LF-In from the external audio source connection
- 2 - Signal ground to CD changer/iPod base plate
- 3 - LF-In ground from the external audio source connection
- 4 - Continuous plus to the CD changer/iPod base plate
- 5 - BOSE coding to ground (only with BOSE)
- 6 - CD data to CD changer/iPod base plate
- 7 - Right LF-In from the external audio source connection
- 8 - Left signal from CD changer/iPod base plate
- 9 - Right signal from CD changer/iPod base plate
- 10 - Positive switched to CD changer/iPod base plate
- 11 - CD data in from the CD changer/iPod base plate
- 12 - CLK from CD changer/iPod base plate



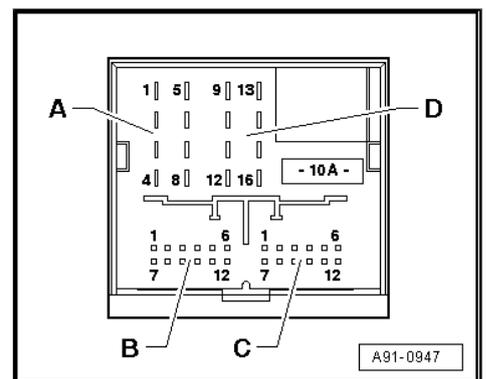
C - Green 12-pin multi-pin connector (T12g)

- 1 - Speed signal (not used)
- 2 - Signal from back-up light switch (not used)
- 3 - Left front signal to digital sound system control module
- 5 - Left rear signal to digital sound system control module
- 6 - LF (-) from telephone transceiver/preliminary setup for cellular telephone package
- 7 - K diagnostic (not used)
- 8 - Signal ground to digital sound system control module
- 9 - Right front signal to digital sound system control module
- 11 - Right rear signal to digital sound system control module
- 12 - LF (+) from telephone transceiver/preliminary setup for cellular telephone package



D - 8-pin multi-pin connector (T8a) black

- 9 - CAN-Bus High (Infotainment)
- 10 - CAN-Bus Low (Infotainment)
- 11 - NF mute from preliminary setup for cellular telephone preparation
- 12 - Terminal 31
- 13 - Positive switched to digital sound system control module
- 14 - Anti-theft warning system (not used)
- 15 - Terminal 30
- 16 - Permanent positive to PIN 15 (anti-theft protection)



2.9.6 Coupe Component Locations, General Overview

1 - Left Front Treble Speaker - R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ ["4.4.6 Left Front Treble Speaker"](#), page 92

2 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ ["2.10 CD Changer Harness Connectors"](#), page 80 .
- Removing and installing, refer to ⇒ ["4.10 CD Changer"](#), page 107

- iPod Baseplate

- In the glove compartment
- Connectors, refer to ⇒ ["2.11 iPod Baseplate, Connections"](#), page 81 .
- Removing and installing, refer to ⇒ ["4.11 iPod Baseplate"](#), page 108

- External audio source connection

- Inside the glove compartment / center console
- Connectors (connection for an external audio source) refer to ⇒ ["2.12 External Audio Source Connection Connectors, AMI"](#), page 81
- AUX IN Connectors, refer to ⇒ ["2.13 AUX IN External Audio Source Connection Connectors"](#), page 82 .
- Removing and installing (connection for an external audio source), refer to ⇒ ["4.12 AMI External Audio Source Connection"](#), page 108
- AUX IN, Removing and Installing, refer to ⇒ ["4.13 AUX IN External Audio Source Connection"](#), page 109 .

3 - Center Mid/High Range Loudspeaker -R158-

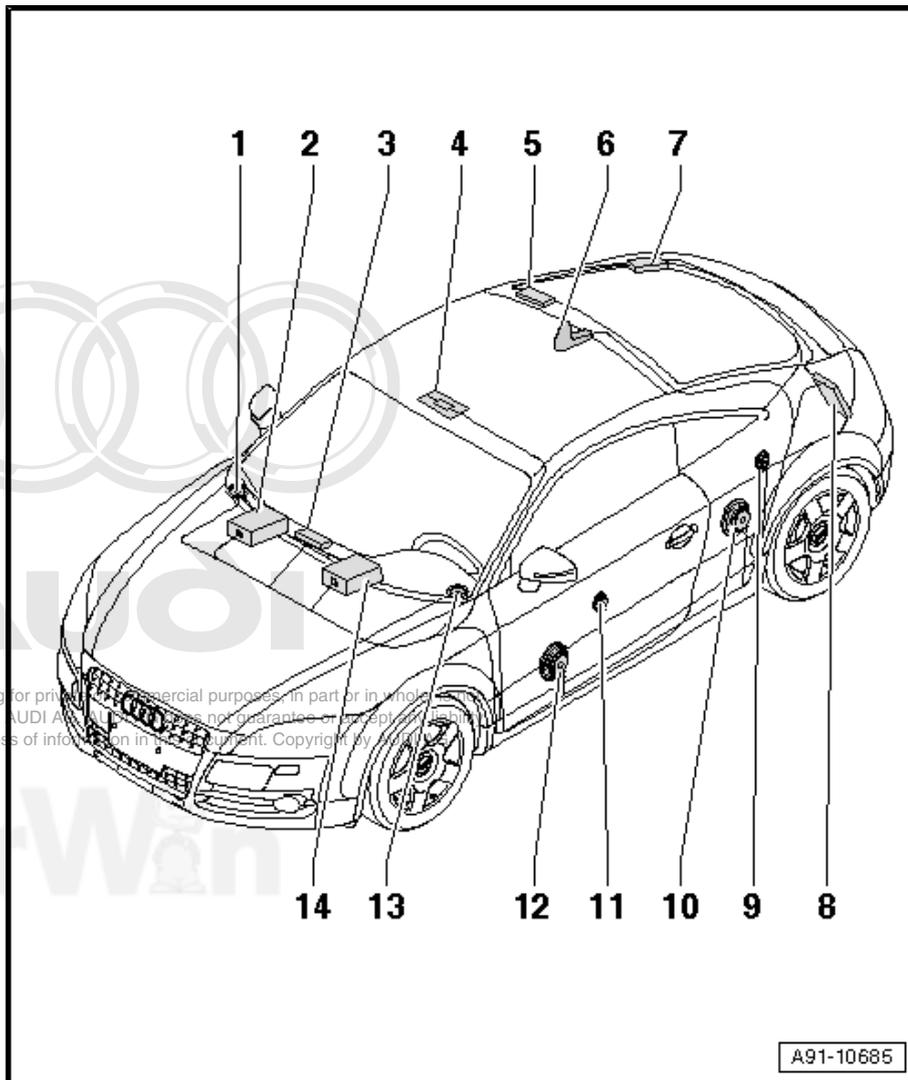
- In front instrument panel, center
- Removing and installing, refer to ⇒ ["4.4.8 Center Mid/High Range Speaker"](#), page 93

4 - Microphone Unit In Front Roof Module -R164-

- In front interior light
- Overview, refer to ⇒ ["2.2.6 Front Roof Module Microphone Unit Overview"](#), page 24
- Removing and installing, refer to ⇒ ["4.4.12 Microphone Unit in Front Roof Module"](#), page 94

5 - Antenna Amplifier -R24-

- On upper right of rear lid



- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

6 - Radio, Telephone, Navigation System Antenna -R52-

- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

7 - Antenna Amplifier 2 -R111-

- On lower right of rear lid
- Overview, refer to ⇒ [“2.3.2 Antennas Overview”, page 30](#)

8 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ [“2.2.7 Standard Sound System Connectors, Through MY 2008”, page 24](#)
- Connectors from MY 2009, refer to ⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to ⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

9 - Left Rear Treble Speaker -R14- / Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.7 Left Rear Treble Speaker”, page 92](#)

10 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- Behind rear side trim
- Removing and installing, refer to ⇒ [“4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe”, page 91](#)

11 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

12 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

13 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

14 - Radio/Navigation Display Control Module -J503-

- In the top of the center console
- Connectors, refer to ⇒ [“2.9.5 Radio/Navigation Display Control Module, Connections”, page 74](#) .
- Removing and installing, refer to ⇒ [“4.9 Radio/Navigation Display Control Module”, page 106](#)

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2.9.7 Roadster Component Locations, General Overview

1 - Right Front Treble Speaker -R22-

- In right of instrument panel
- Removing and installing, refer to ⇒ ["4.4.6 Left Front Treble Speaker", page 92](#)

2 - Center Mid/High Range Loudspeaker -R158-

- In front instrument panel, center
- Removing and installing, refer to ⇒ ["4.4.8 Center Mid/High Range Speaker", page 93](#)

3 - Navigation System Antenna -R50-

- Behind front interior light
- Overview, refer to ⇒ ["2.4.2 Antennas, Overview", page 34](#)

4 - Microphone Unit In Front Roof Module -R164-

- In front interior light
- Overview, refer to ⇒ ["2.2.6 Front Roof Module Microphone Unit Overview", page 24](#)
- Removing and installing, refer to ⇒ ["4.4.12 Microphone Unit in Front Roof Module", page 94](#)

5 - Right Rear Treble Speaker -R16-

- In upper right side trim
- Removing and installing, refer to ⇒ ["4.4.3 Left Front Bass Speaker", page 90](#)

6 - Left Rear Mid/Low Range Loudspeaker -R159- / Right Rear Mid/Low Range Loudspeaker -R160-

- In rear wall
- Removing and installing, refer to ⇒ ["4.4.5 Left Rear Mid/Low Range Speaker, Roadster", page 91](#)

7 - Antenna Amplifier 2 -R111-

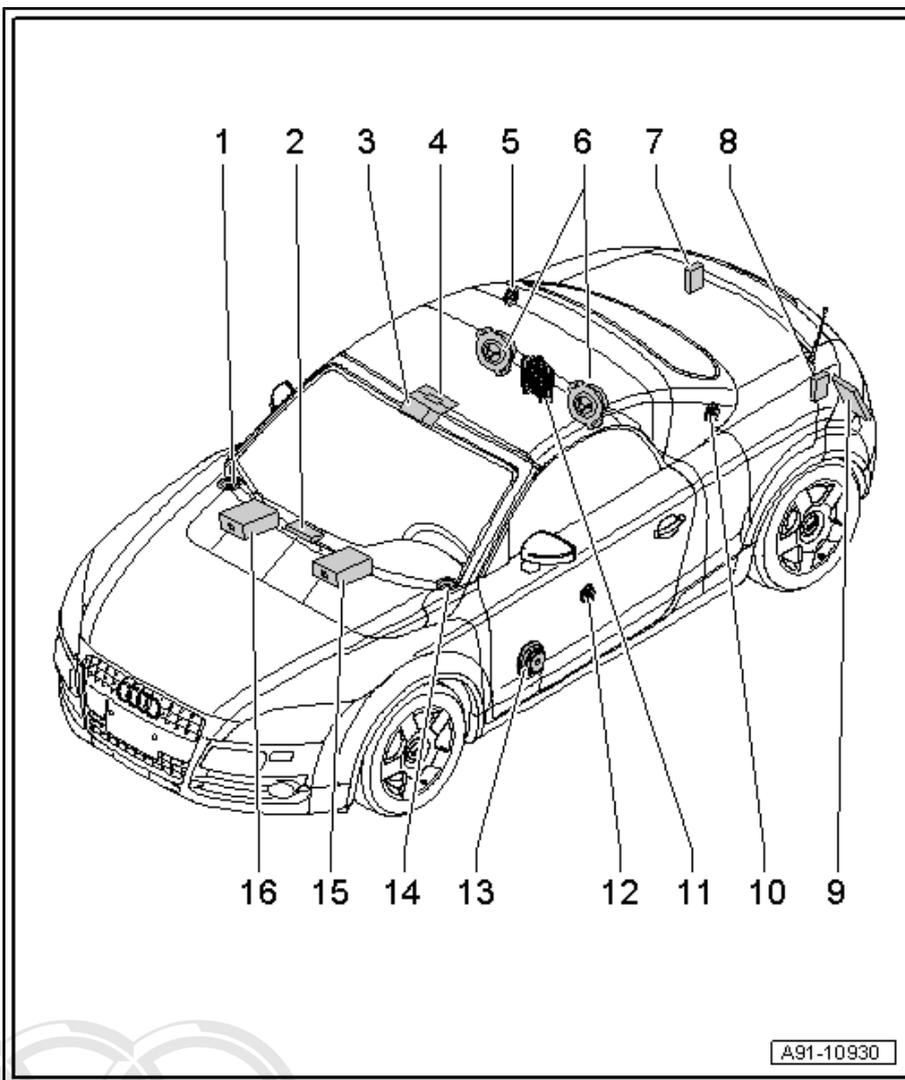
- Behind right side of rear lid
- Overview, refer to ⇒ ["2.4.2 Antennas, Overview", page 34](#)

8 - Antenna Amplifier -R24-

- Left rear mast antenna base
- Overview, refer to ⇒ ["2.4.2 Antennas, Overview", page 34](#)

9 - Digital Sound System Control Module -J525-

- Behind the luggage compartment left side trim
- Connectors through MY 2008, refer to ⇒ ["2.2.7 Standard Sound System Connectors, Through MY 2008", page 24](#)



- Connectors from MY 2009, refer to
⇒ [“2.2.8 Standard Sound System Connectors, from MY 2009”, page 25](#)
- Removing and installing, refer to ⇒ [“4.4.1 Digital Sound System Control Module”, page 89](#)
- BOSE connections, refer to ⇒ [“2.2.9 BOSE Sound System Connectors”, page 27](#)
- BOSE, removing and installing, refer to
⇒ [“4.4.2 Digital Sound System Control Module \(BOSE\)”, page 90](#)

10 - Left Rear Treble Speaker -R14-

- In upper right side trim
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

11 - Center speaker -R148-

- In center of rear wall
- Removing and installing, refer to ⇒ [“4.4.11 Center Loudspeaker, Roadster”, page 94](#)

12 - Left Front Midrange Speaker -R103- / Right Front Midrange Speaker -R104-

- In center of doors
- Removing and installing, refer to ⇒ [“4.4.9 Left Front Midrange Speaker”, page 93](#)

13 - Left Front Bass Speaker -R21- / Right Front Bass Speaker -R23-

- In bottom of doors
- Removing and installing, refer to ⇒ [“4.4.3 Left Front Bass Speaker”, page 90](#)

14 - Left Front Treble Speaker -R20-

- In left of instrument panel
- Removing and installing, refer to ⇒ [“4.4.6 Left Front Treble Speaker”, page 92](#)

15 - Radio/Navigation Display Control Module -J503-

- In the top of the center console
- Connectors, refer to ⇒ [“2.9.5 Radio/Navigation Display Control Module, Connections”, page 74](#) .
- Removing and installing, refer to ⇒ [“4.8 Navigation System with CD Drive Control Module”, page 106](#)

16 - CD Changer -R41-

- In the glove compartment
- Connectors, refer to ⇒ [“2.10 CD Changer Harness Connectors”, page 80](#) .
- Removing and installing, refer to ⇒ [“4.10 CD Changer”, page 107](#)

- iPod Baseplate

- In the glove compartment
- Connectors, refer to ⇒ [“2.11 iPod Baseplate, Connections”, page 81](#) .
- Removing and installing, refer to ⇒ [“4.11 iPod Baseplate”, page 108](#)

- External audio source connection

- Inside the glove compartment / center console
- Connectors (connection for an external audio source), refer to
⇒ [“2.12 External Audio Source Connection Connectors, AMI”, page 81](#)
- AUX IN Connectors, refer to
⇒ [“2.13 AUX IN External Audio Source Connection Connectors”, page 82](#) .
- Removing and installing (connection for an external audio source), refer to
⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)
- AUX IN, Removing and Installing, refer to
⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#) .

2.10 CD Changer Harness Connectors



Note

Unlisted connector terminals are not assigned.

Black 12-pin multi-pin harness connector (T12a)

1 - CD data out to radio/navigation system with CD drive control module, radio/navigation display control module

2 - CLK out to radio/navigation system with CD drive control module, radio/navigation display control module

3 - Terminal 31

4 - Data in from radio/navigation system with CD drive control module, radio/navigation display control module

6 - Permanent positive from radio/navigation system with CD drive control module, radio/navigation display control module

7 - Right signal to radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio

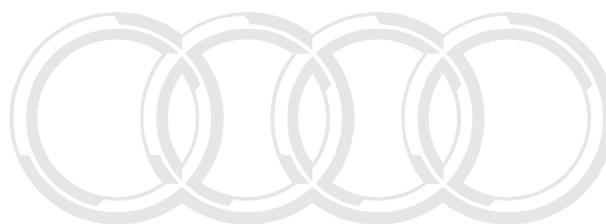
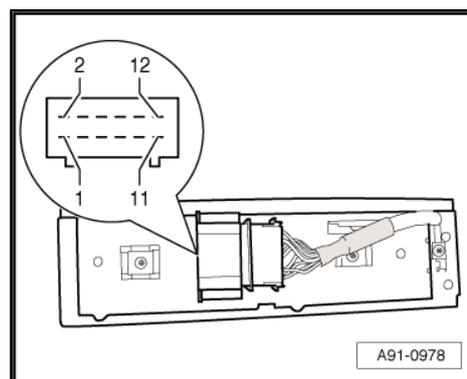
8 - Positive switched from radio/navigation system with CD drive control module, radio/navigation display control module

9 - Signal ground from radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio

10 - Left signal to radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio

11 - TOC Check Control (not used)

12 - Terminal 58 (not used)



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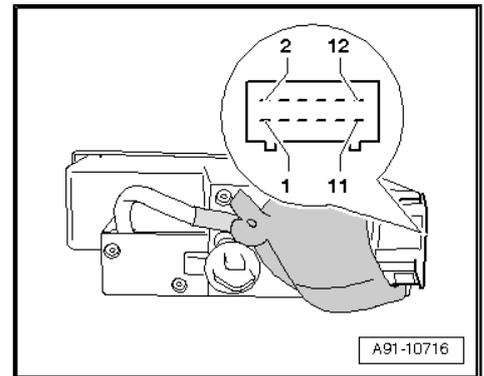
2.11 iPod Baseplate, Connections

Note

Unlisted connector terminals are not assigned.

Black 12-pin multi-pin harness connector (T12a)

- 1 - CD data out to radio/navigation system with CD drive control module, radio/navigation display control module
- 2 - CLK out to radio/navigation system with CD drive control module, radio/navigation display control module
- 3 - Terminal 31
- 4 - Data in from radio/navigation system with CD drive control module, radio/navigation display control module
- 6 - Permanent positive from radio/navigation system with CD drive control module, radio/navigation display control module
- 7 - Right signal to radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio
- 8 - Positive switched from radio/navigation system with CD drive control module, radio/navigation display control module
- 9 - Signal ground from radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio
- 10 - Left signal to radio/navigation system with CD drive control module, radio/navigation display control module, satellite radio
- 11 - TOC Check Control (not used)
- 12 - Terminal 58 (not used)



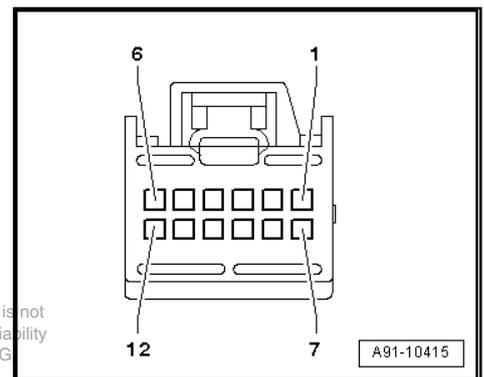
2.12 External Audio Source Connection Connectors, AMI

Note

Unlisted connector terminals are not assigned.

12-pin connector

- 1 - Terminal 31
- 2 - CAN-Bus Low (Infotainment)
- 4 - Right NF to radio/navigation system with CD drive control module, radio/navigation display control module
- 7 - Terminal 30
- 8 - CAN-Bus High (Infotainment)
- 9 - Left NF to radio/navigation system with CD drive control module, radio/navigation display control module
- 10 - NF ground to radio/navigation system with CD drive control module, radio/navigation display control module



2.13 AUX IN External Audio Source Connection Connectors

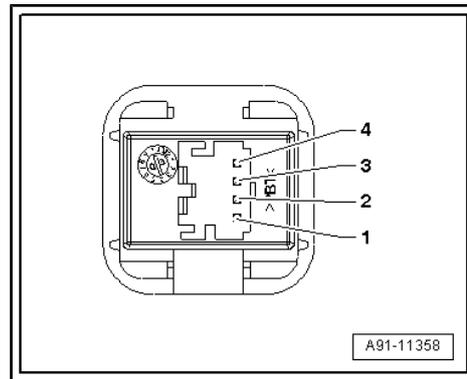
Note

Unlisted connector terminals are not assigned.

4-pin connector

All pins are connected to the radio/navigation system with CD drive control module, radio/navigation display control module.

- 1 - LF ground
- 2 - LF left
- 3 - LF right
- 4 - Terminal 31



2.14 Multi-Function Steering Wheel, Overview

1 - Multifunction Steering Wheel

- Multi-function buttons, removing and installing, refer to ["4.14 Multi-function Buttons", page 109](#)
- Tiptronic Switch, removing and installing, refer to ["4.15 Tiptronic Switch", page 110](#)

2 - Steering Column Electronic Systems Control Module - J527-

- On steering column
- Connectors, refer to ["2.16 Steering Column Electronic Systems Control Module Connectors", page 84](#)
- Removing and installing, refer to ["4.16 Steering Column Electronic Systems Control Module", page 111](#)

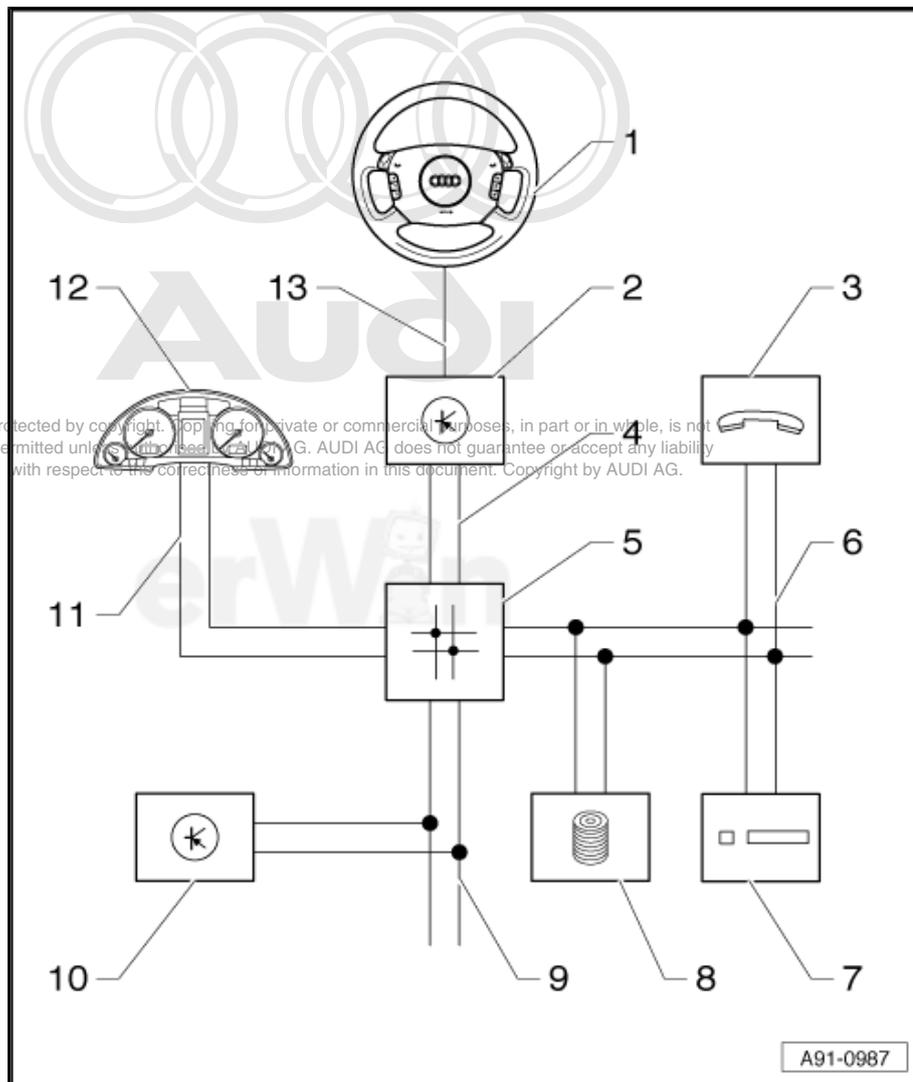
3 - Telephone transceiver - R36-

- In electronics box under left front seat

4 - CAN-Bus (Comfort)

5 - Data Bus On Board Diagnostic Interface -J533-

- behind left front compartment



6 - CAN-Bus (Infotainment)

7 - Radio -R-

- In the top of the center console

8 - CD Changer -R41-

- In the glove compartment

9 - CAN-Bus (Powertrain)

10 - Engine Control Module -J623-

- In plenum chamber

11 - CAN-Bus (Instrument Cluster)

12 - Instrument Cluster Control Module -J285- (instrument cluster)

- In instrument panel

13 - LIN Data Bus (Single Wire Bus)

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2.15 Steering Column Switch Module, Overview

1 - Airbag Spiral Spring

2 - Wiper Switch/On-Board Computer

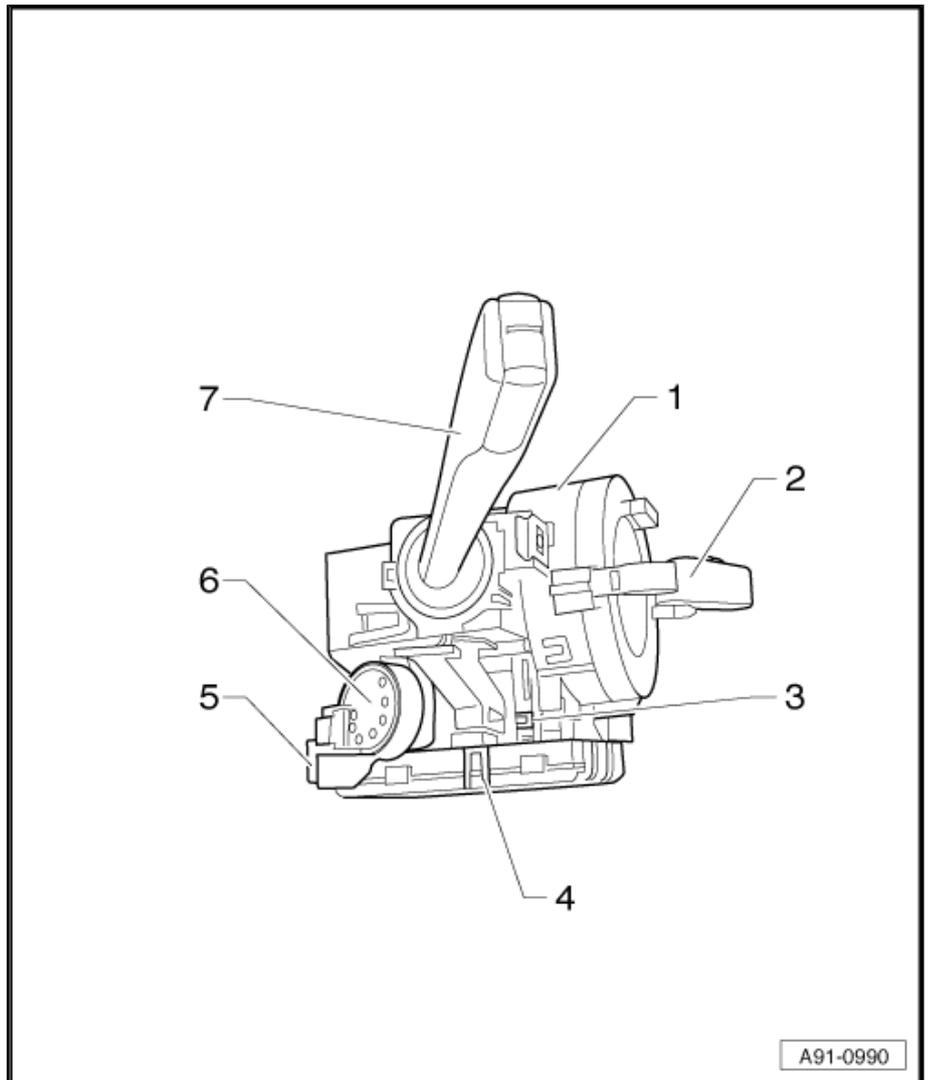
3 - Steering Angle Sensor - G85-

4 - Steering Column Electronic Systems Control Module - J527-

5 - Black Connector (T20b) On Steering Column Electronic Systems Control Module - J527-

6 - Ignition/Starter Switch -D-

7 - Turn Signal Switch/Cruise Control Switch



2.16 Steering Column Electronic Systems Control Module Connectors

Connectors

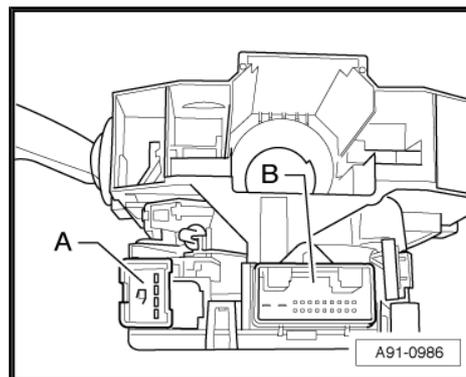
A - 4-pin multi-pin connector (T4n) yellow

B - Black 20-pin multi-pin connector (T20b)



Note

Unlisted connector terminals are not assigned.



B - Black 20-pin multi-pin connector (T20b)

11 - CAN-Bus Low (powertrain)

12 - CAN-Bus High (powertrain)

13 - Cruise control locked OFF to Engine Control Module (ECM)
-J623-

14 - CAN-Bus High (comfort)

15 - CAN-Bus Low (comfort)

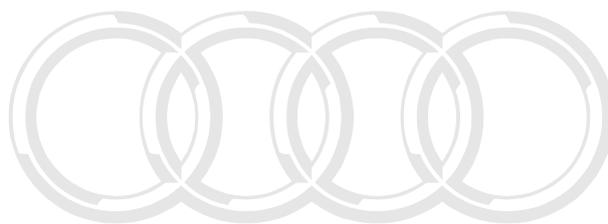
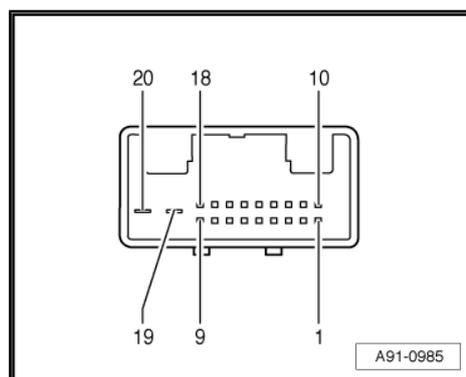
16 - Parking lock signal from automatic transmission shift gate

17 - Terminal 15 to vehicle electrical system control module

18 - Terminal 50 to vehicle electrical system control module

19 - Terminal 30

20 - Terminal 31



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3 Specifications

⇒ "3.1 Fastener Tightening Specifications", page 85

3.1 Fastener Tightening Specifications

Component	Bolt Size	Nm
Nut for Antenna Amplifier 2 ¹		6
Nut for Center Speaker ¹		2
Nut for Digital Sound System Control Module		5
Nut for Digital Sound System Control Module - BOSE		5
Nut for Mast Antenna ²		4
Nut for Radio, Telephone, Navigation System Antenna ¹		6
Nut for Satellite Antenna		6
Nut for Windshield Antenna Suppression Filter		6
Screw for Antenna Amplifier 2 ²		2
Screw for Antenna Amplifier 4		2
Screw for Antenna Selection Control Module		
Screw for Center Mid/High Range Loudspeaker		1
Screw for Center Speaker		2
Screw for Digital Sound System Control Module		3
Screw for Digital Sound System Control Module - BOSE		3
Screw for Left Front Bass Speaker/Right Front Bass Speaker		3.5
Screw for External Audio Source Connection		1
Screw for Left Front Midrange Speaker/Right Front Midrange Speaker		2
Screw for Left Rear Mid/Low Range Loudspeaker & Right Rear Mid/Low Range Loudspeaker		2
Screw for Navigation System / Telephone Antenna ²		2
Screw for Radio Antenna 2		2
Screws for Telephone Base Plate		2
<ul style="list-style-type: none"> • ¹Coupe • ²Roadster 		

4 Removal and Installation

⇒ [“4.1 Radio”, page 86](#)

⇒ [“4.2 Front Passenger Airbag Disabled Indicator Lamp”, page 87](#)

⇒ [“4.3 Satellite Radio”, page 88](#)

⇒ [“4.4 Sound System”, page 89](#)

⇒ [“4.5 Antenna System, Coupe”, page 95](#)

⇒ [“4.6 Antenna System, Roadster”, page 100](#)

⇒ [“4.7 Telephone Systems”, page 104](#)

⇒ [“4.8 Navigation System with CD Drive Control Module”, page 106](#)

⇒ [“4.9 Radio/Navigation Display Control Module”, page 106](#)

⇒ [“4.10 CD Changer”, page 107](#)

⇒ [“4.11 iPod Baseplate”, page 108](#)

⇒ [“4.12 AMI External Audio Source Connection”, page 108](#)

⇒ [“4.13 AUX IN External Audio Source Connection”, page 109](#)

⇒ [“4.14 Multi-function Buttons”, page 109](#)

⇒ [“4.15 Tiptronic Switch”, page 110](#)

⇒ [“4.16 Steering Column Electronic Systems Control Module”, page 111](#)

4.1 Radio

Required Special Tools and Equipment

- ◆ Radio Removal Tool -T10057-
- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

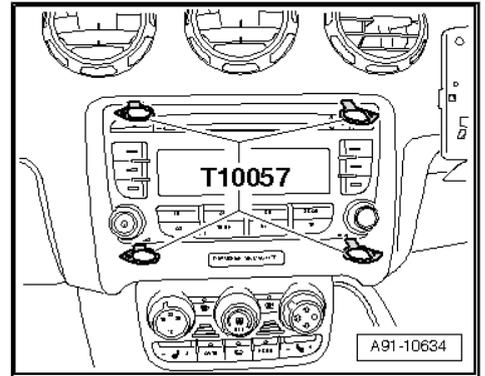
Use the Vehicle Diagnosis, Testing and Information System to do so.

- Activate transport mode in symphony. Refer to ⇒ [“2.1.11 Symphony Transport Mode, Activating/Deactivating”, page 20](#) .
- Switch off all electrical consumers.
- Remove the key.

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Removing

- Insert radio removal tool in release slits on radio until they engage. Points on grip eyes face outward.
- Remove radio from instrument panel with radio removal tool grip eyes.
- Release electrical connectors on radio and remove them.
- Remove radio removal tool by pressing locking tabs on radio.
- Remove front passenger's airbag disabled indicator lamp. Refer to ["4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).



Installing

- Install front passenger's airbag disabled indicator lamp. Refer to ["4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).
- Connect all electrical connectors.
- Carefully slide radio into instrument panel and let it engage in mounting frame.
- Deactivate transport mode in symphony. Refer to ["2.1.11 Symphony Transport Mode, Activating/Deactivating", page 20](#).

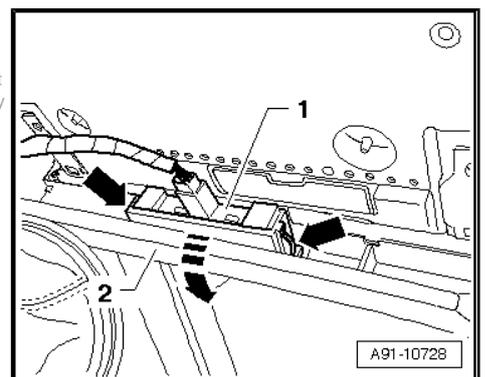
4.2 Front Passenger Airbag Disabled Indicator Lamp

In case of a fault or if radio is replaced, front passenger's airbag disabled indicator lamp must be removed.

- Switch off all electrical consumers.
- Remove the key.

Removing

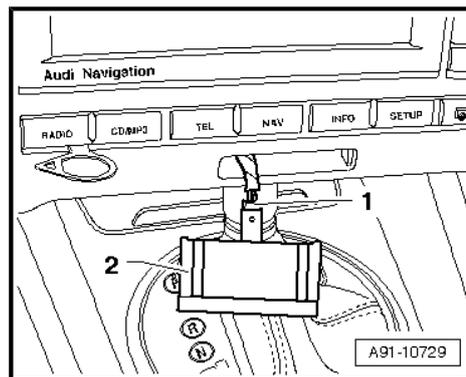
- Remove radio far enough so rear side can be reached. Refer to ["4.1 Radio", page 86](#).
- Press retaining springs -arrows- at left and right of front passenger's airbag disabled indicator lamp -1-.
- Press front passenger's airbag disabled indicator lamp -1- in -direction of arrow- out of radio frame -2-.



- Disconnect electrical connector -1- on front passenger's air-bag disabled indicator lamp -2-.

Installing

- Install in reverse order.



4.3 Satellite Radio

The satellite radio is clamped into the left luggage compartment insert.

- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

Use the Vehicle Diagnosis, Testing and Information System to do so.

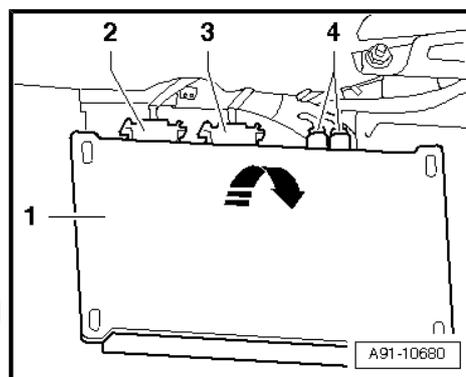
- Switch off all electrical consumers.
- Remove the key.

Removing

- Open luggage compartment.
- Remove the luggage compartment floor covering.
- Tip satellite radio -1- in -direction of arrow- out of luggage compartment insert.
- Disconnect electrical connectors -2-, -3- and -4- on satellite radio -1-.

Installing

- Install in reverse order.
- Enable satellite radio. Refer to [⇒ "2.1.10 Satellite Radio, Enabling", page 19](#).



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4.4 Sound System

- ⇒ ["4.4.1 Digital Sound System Control Module", page 89](#)
- ⇒ ["4.4.2 Digital Sound System Control Module \(BOSE\)", page 90](#)
- ⇒ ["4.4.3 Left Front Bass Speaker", page 90](#)
- ⇒ ["4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe", page 91](#)
- ⇒ ["4.4.5 Left Rear Mid/Low Range Speaker, Roadster", page 91](#)
- ⇒ ["4.4.6 Left Front Treble Speaker", page 92](#)
- ⇒ ["4.4.7 Left Rear Treble Speaker", page 92](#)
- ⇒ ["4.4.8 Center Mid/High Range Speaker", page 93](#)
- ⇒ ["4.4.9 Left Front Midrange Speaker", page 93](#)
- ⇒ ["4.4.10 Center Loudspeaker, Coupe", page 93](#)
- ⇒ ["4.4.11 Center Loudspeaker, Roadster", page 94](#)
- ⇒ ["4.4.12 Microphone Unit in Front Roof Module", page 94](#)

4.4.1 Digital Sound System Control Module

The digital sound system control module is located behind the left luggage compartment trim panel between the tail lamp assembly and the wheel housing.

- Switch off all electrical consumers.
- Remove the key.

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Removing

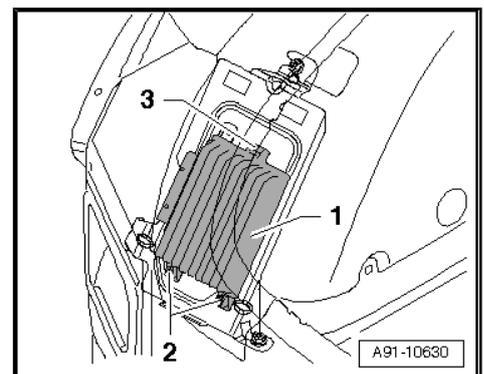
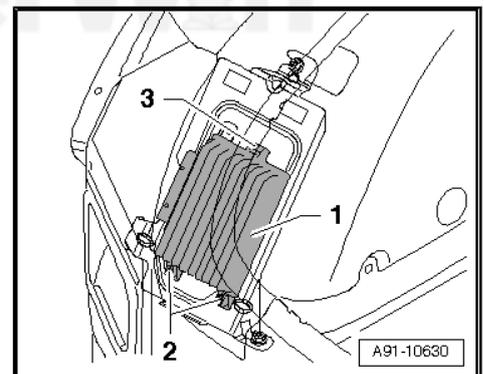
- Remove the left luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove screws -2-.
- Tip digital sound system control module -1- out of clamp -3- on bracket.
- Disconnect electrical connector on digital sound system control module -1-.

Installing

- Install in reverse order.

- Make sure that digital sound system control module -1- slides into clamp -3- first.

Tightening specifications. Refer to
 ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#) .



4.4.2 Digital Sound System Control Module (BOSE)

The digital sound system control module is located behind the left luggage compartment trim panel between the tail lamp assembly and the wheel housing.

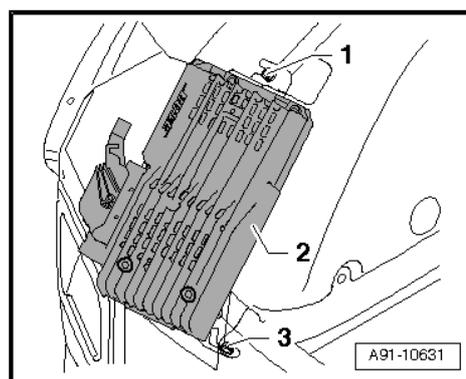
- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove the left luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Loosen nuts -1- and -3- on bracket.

The digital sound system control module -2- with bracket is only connected at left rear.

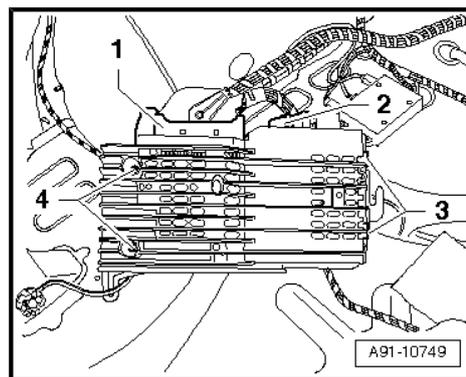
- Tip digital sound system control module -2- with bracket into luggage compartment.



- Disconnect electrical connectors -1- and -2- on digital sound system control module.
- Remove bolts -4- and tip digital sound system control module out of clamps -3-.

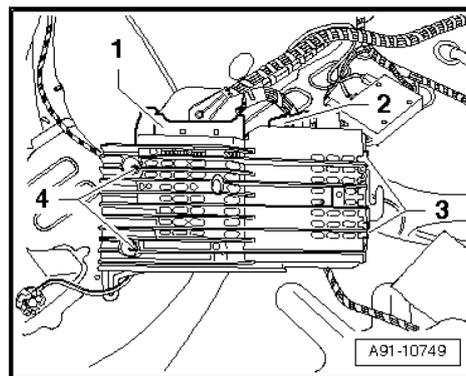
Installing

- Install in reverse order.



- Make sure that digital sound system control module slides into clamp -3- first.

Tightening specifications. Refer to ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#) .



4.4.3 Left Front Bass Speaker

Removal and installation of left front bass speaker and right front bass speaker are the same.

- Switch off all electrical consumers.
- Remove the key.

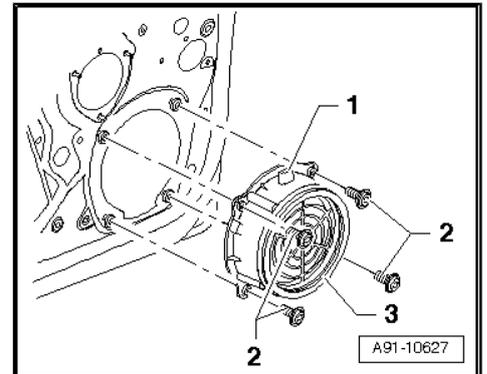
Removing

- Remove door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect electrical connector -1- on left front bass speaker -3-.
- Remove screws -2-.
- Remove left front bass speaker -3- from door.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#) .



4.4.4 Left Rear Mid/Low Range Loudspeaker, Coupe

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 Removal and installation of left rear mid/low range speaker and right rear mid/low range speaker are identical.

- Switch off all electrical consumers.
- Remove the key.

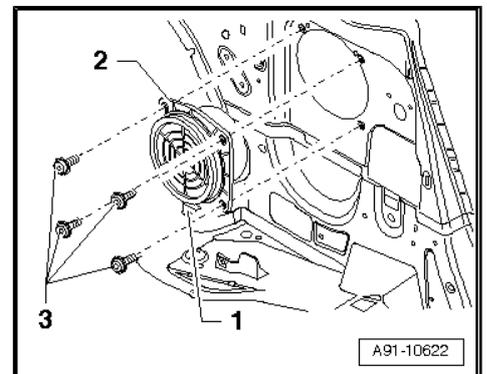
Removing

- Remove side trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect electrical connector -1- on left rear mid/low range speaker -2-.
- Remove screws -3-.
- Remove left rear mid/low range speaker -2- from door.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#) .



4.4.5 Left Rear Mid/Low Range Speaker, Roadster

Removal and installation of left rear mid/low range speaker and right rear mid/low range speaker are identical.

- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove end panel trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .

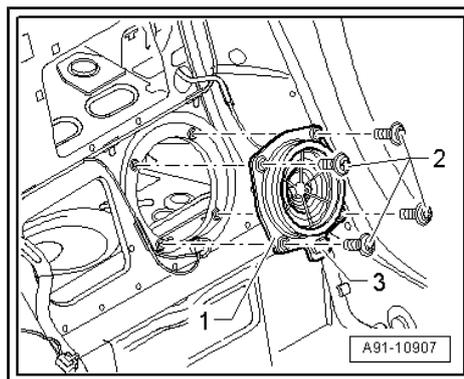
- Disconnect the connector -3- from the left rear midrange speaker -1-.
- Remove screws -2-.
- Remove left rear mid/low range speaker -1- from rear wall.

Installing

- Install in reverse order.

Tightening specifications. Refer to

⇒ ["2.2.2 Roadster, Assembly Overview", page 22](#) .



4.4.6 Left Front Treble Speaker

Removal and installation of left front treble speaker and right front treble speaker is the same.

The speakers are clipped into the instrument panel.

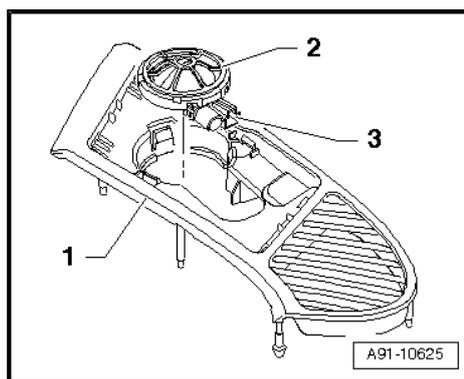
- Switch off all electrical consumers.
- Remove the key.

Removing

- First unclip speaker trim.
- Unclip left front treble speaker -2- from instrument panel -1-.
- Disconnect electrical connector -3- on left front treble speaker -2-.

Installing

- Install in reverse order.



4.4.7 Left Rear Treble Speaker

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Removal and installation of left rear treble speaker and right rear treble speaker is identical.

The speakers are clipped into the side trim.

- Switch off all electrical consumers.
- Remove the key.

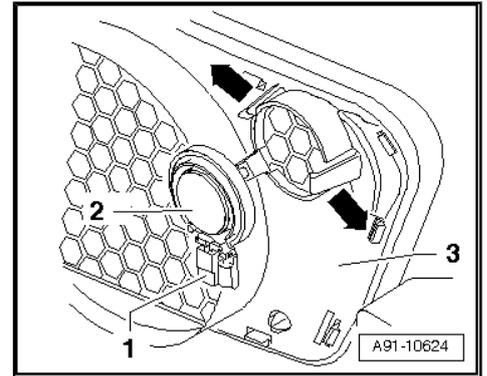
Removing

- Remove side trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .

- Disconnect electrical connector -1- on left rear treble speaker -2-.
- Release retaining clips -arrows- and remove left rear treble speaker -2- from side trim -3-.

Installing

- Install in reverse order.



4.4.8 Center Mid/High Range Speaker

- Switch off all electrical consumers.
- Remove the key.

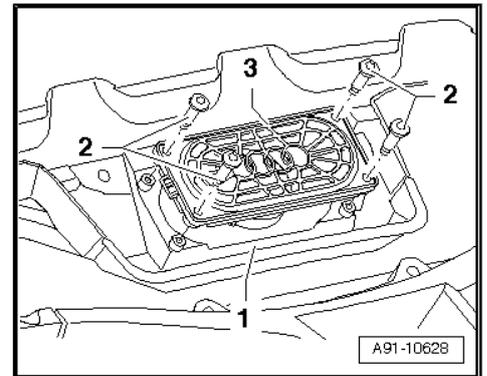
Removing

- Unclip cover on front center of instrument panel.
- Remove screws -2-.
- Raise center mid/high range loudspeaker -3- from instrument panel -1- and disconnect electrical connector.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#)



4.4.9 Left Front Midrange Speaker

Removal and installation of left front midrange speaker and right front midrange speaker is the same.

- Switch off all electrical consumers.
- Remove the key.

Removing

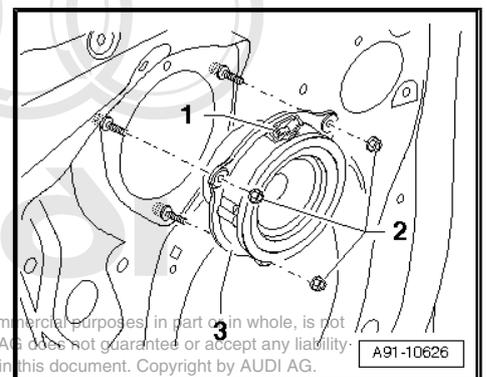
- Remove door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect electrical connector -1- on left front midrange speaker -3-.
- Remove nuts -2-.
- Remove left front midrange speaker -3- from side panel.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.2.1 Coupe, Assembly Overview", page 21](#) .

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4.4.10 Center Loudspeaker, Coupe

- Switch off all electrical consumers.

- Remove the key.

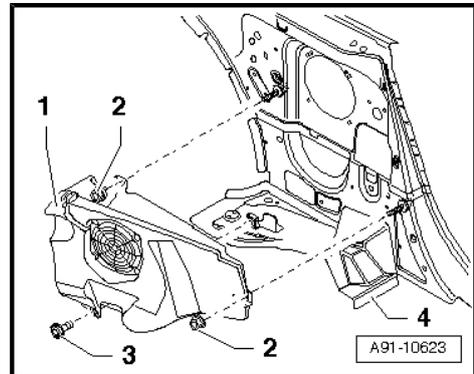
Removing

- Remove left side trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect electrical connector on center loudspeaker -1-.
- Remove nuts -2-.
- Remove bolt -3-.
- Remove center loudspeaker -1- from side panel -4-.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ [“2.2.1 Coupe, Assembly Overview”, page 21](#) .



4.4.11 Center Loudspeaker, Roadster

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- Switch off all electrical consumers.

- Remove the key.

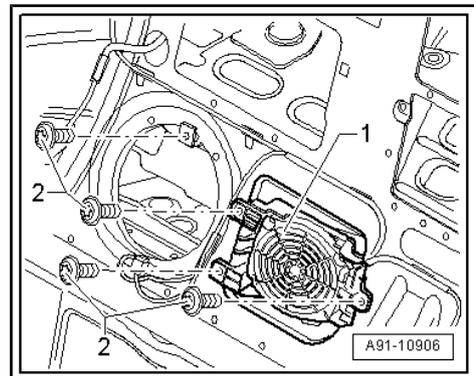
Removing

- Remove end panel trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove screws -2-.
- Disconnect electrical connector on center loudspeaker -1-.
- Remove center loudspeaker -1- from rear wall.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ [“2.2.2 Roadster, Assembly Overview”, page 22](#) .



4.4.12 Microphone Unit in Front Roof Module

A maximum of two microphones are installed in the front interior light. They can only be replaced completely.

- Switch off all electrical consumers.

- Remove the key.

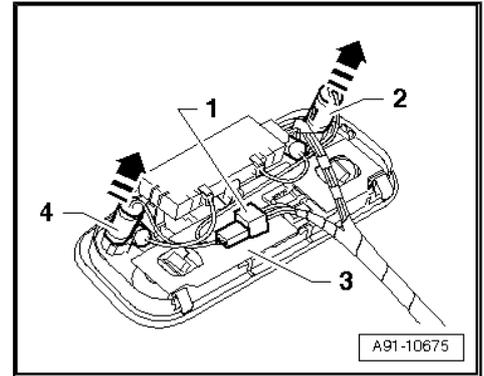
Removing

- Remove front interior light. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Removal and Installation .

- Disconnect electrical connector -1-.
- Pry microphones -2- and -4- out of front interior light -3- -arrows-.

Installing

- Install in reverse order.



4.5 Antenna System, Coupe

⇒ [“4.5.1 Antenna Amplifier 2”, page 95](#)

⇒ [“4.5.2 Antenna Amplifier and Antenna Amplifier 4”, page 95](#)

⇒ [“4.5.3 Radio, Telephone, Navigation System Antenna”, page 96](#)

⇒ [“4.5.4 Radio, Telephone, Navigation System Antenna”, page 97](#)

⇒ [“4.5.5 Windshield Antenna Suppression Filter”, page 99](#)

⇒ [“4.5.6 Antenna Splitter”, page 99](#)

4.5.1 Antenna Amplifier 2

The antenna amplifier 2 is located on the bottom right of the rear lid.

- Switch off all electrical consumers.
- Remove the key.

Removing

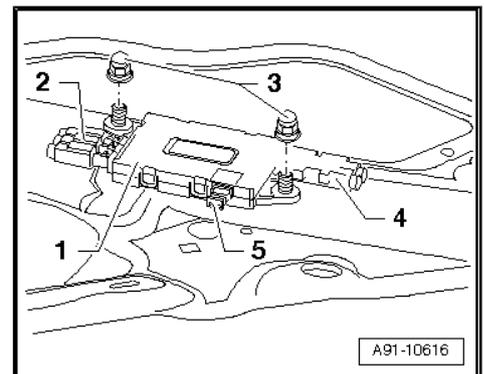
- Remove lower rear lid trim. Refer to ⇒ [Body Interior; Rep. Gr. 70 ; Removal and Installation](#).
- Disconnect electrical connectors -2-, -4- and -5- on antenna amplifier 2 -1-.
- Remove nuts -3-.
- Remove antenna amplifier 2 -1- from rear lid.

Installing

- Install in reverse order.

Tightening specifications. Refer to

⇒ [“2.3.1 Antenna system Assembly Overview”, page 29](#) .



4.5.2 Antenna Amplifier and Antenna Amplifier 4

The antenna amplifier and antenna amplifier 4 are located on the upper right and left of the rear lid.

Removal and installation of antenna amplifier and antenna amplifier 4 is the same.

- Switch off all electrical consumers.
- Remove the key.

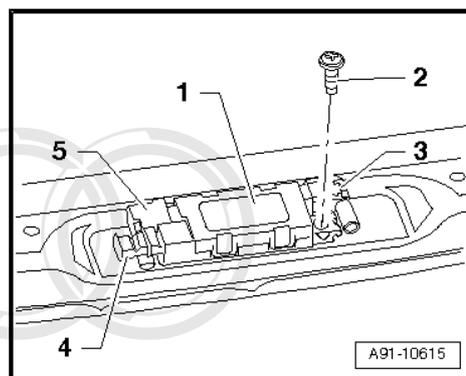
Removing

- Remove rear lid trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect electrical connectors -3-, -4- and -5- on antenna amplifier -1-.
- Remove bolt -2- and remove antenna amplifier -1- from rear lid.

Installing

- Install in reverse order.

Tightening specifications. Refer to
⇒ ["2.3.1 Antenna system Assembly Overview", page 29](#) .



4.5.3 Radio, Telephone, Navigation System Antenna

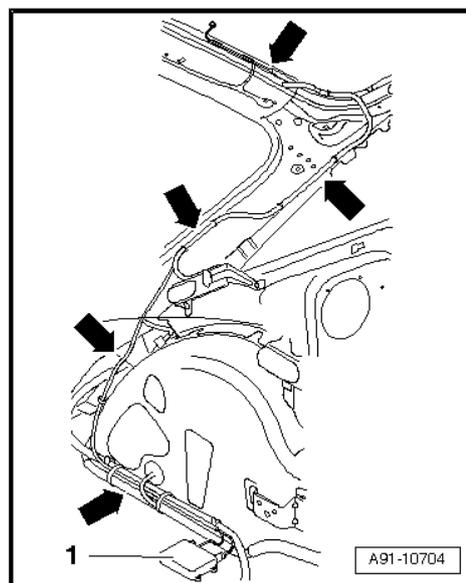
The antenna wires are connected to the telephone amplifier in the left of the luggage compartment and the right rear lid connector station on the roof frame.

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- Switch off all electrical consumers.
- Remove the key.

Removing

- Lower the rear headliner. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove the left luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Disconnect antenna wires on telephone amplifier -1-.
- Disconnect cable tie along antenna wires up to radio, telephone, navigation system antenna -arrows-.



- Disconnect connector -1- on right side at right rear lid connector station.
- Disconnect cable ties -arrows- up to radio, telephone, navigation system antenna -2-.
- Remove nut -3-.
- Remove radio, telephone, navigation system antenna -2- upward from roof.

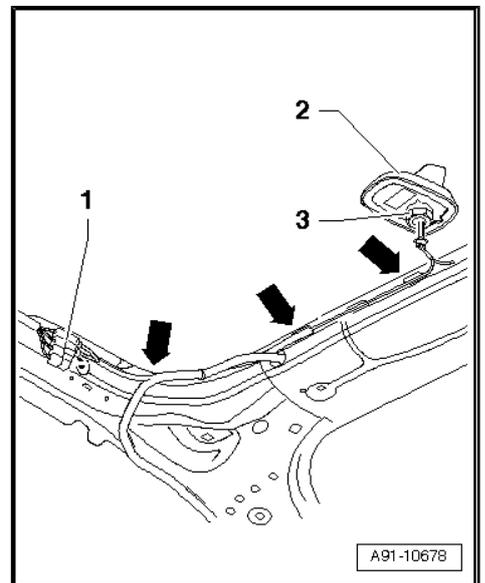
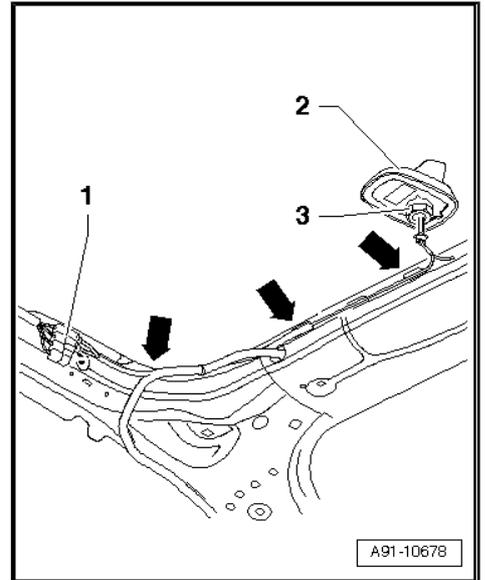
Installing

- Place radio, telephone, navigation system antenna -2- on roof and align it in direction of travel.
- Lay antenna wires in opening on antenna base so nut -3- can be turned.

The antenna wires must lie in the nut opening -3-.

- Align radio, telephone, navigation system antenna -2- in direction of travel again before tightening the nut -3-.
- Perform further installation in reverse order.

Tightening specifications. Refer to
 ⇒ **"2.3.1 Antenna system Assembly Overview", page 29** .



4.5.4 Radio, Telephone, Navigation System Antenna

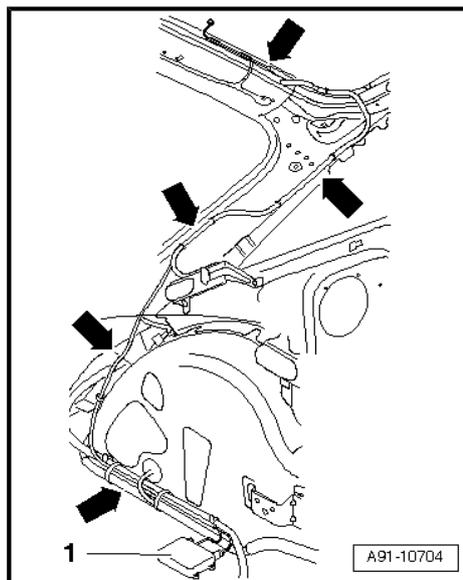
The antenna wires are connected to the satellite radio in the left of the luggage compartment and the right rear lid connector station on the roof frame.

- Switch off all electrical consumers.
- Remove the key.

Removing

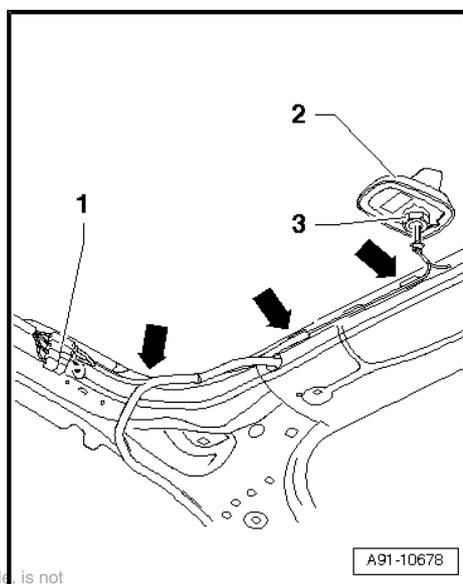
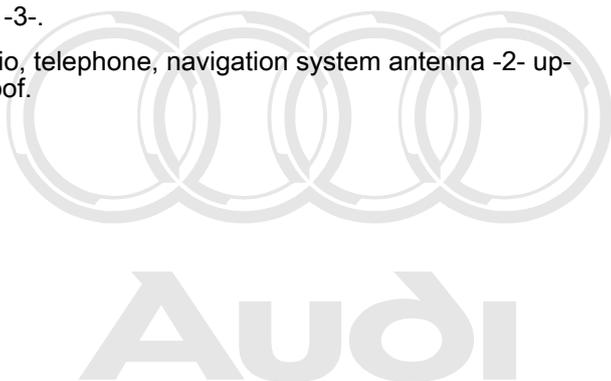
- Lower rear headliner. Refer to ⇒ **Body Interior; Rep. Gr. 70 ; Removal and Installation** .
- Remove the left luggage compartment trim panel. Refer to ⇒ **Body Interior; Rep. Gr. 70 ; Removal and Installation** .

- Disconnect antenna wire on satellite radio -1-.
- Disconnect cable tie along antenna wires up to radio, telephone, navigation system antenna -arrows-.



- Disconnect electrical connector -1- on right side at right rear lid connector station.
- Disconnect cable ties -arrows- up to radio, telephone, navigation system antenna -2-.
- Remove nut -3-.
- Remove radio, telephone, navigation system antenna -2- upward from roof.

Installing

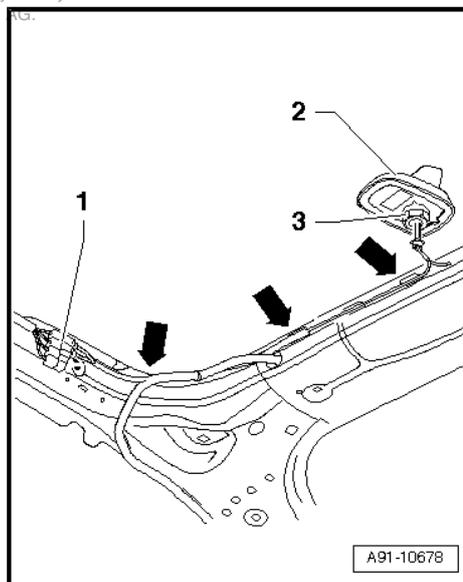


- Place radio, telephone, navigation system antenna -2- on roof and align it in direction of travel.
- Lay antenna wires in opening on antenna base so nut -3- can be turned.

The antenna wires must lie in the nut opening -3-.

- Align radio, telephone, navigation system antenna -2- in direction of travel again before tightening the nut -3-.
- Perform further installation in reverse order.

Tightening specifications. Refer to
 ⇒ **"2.3.1 Antenna system Assembly Overview", page 29** .



4.5.5 Windshield Antenna Suppression Filter

The windshield antenna suppression filter is located behind the left side trim between the wheel housing and center loudspeaker.

- Switch off all electrical consumers.
- Remove the key.

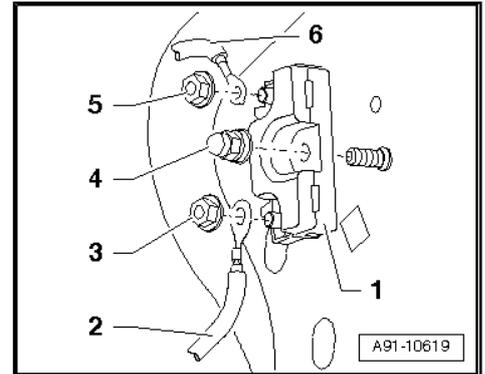
Removing

- Remove left side trim. Refer to => Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove nuts -3- and -5-.
- Remove wire -2- and -6- from threaded pins.
- Remove nut -4-.
- Remove windshield antenna suppression filter -1- from threaded pins.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 => ["2.3.1 Antenna system Assembly Overview", page 29](#) .



4.5.6 Antenna Splitter

The antenna splitter was installed through 10/06.

The antenna splitter is located in the left luggage compartment insert under the satellite radio.

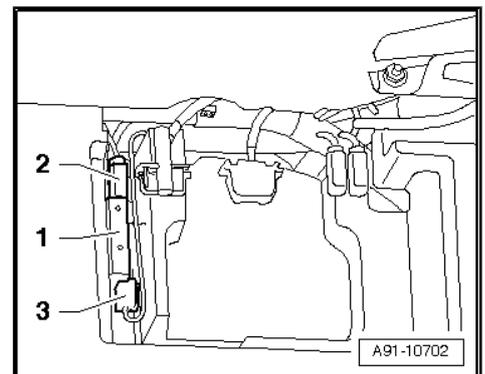
- Switch off all electrical consumers.
- Remove the key.

Removing

- Open luggage compartment.
- Remove the luggage compartment floor covering.
- Remove satellite radio from luggage compartment insert and lay it aside.
- Pry antenna splitter -1- out of luggage compartment insert.
- Disconnect electrical connectors -2- and -3- on antenna splitter -1-.

Installing

- Install in reverse order.



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4.6 Antenna System, Roadster

⇒ [“4.6.1 Antenna Amplifier”, page 100](#)

⇒ [“4.6.2 Antenna Amplifier 2”, page 100](#)

⇒ [“4.6.3 TV Antenna 2, through MY 2007”, page 101](#)

⇒ [“4.6.4 TV Antenna 2, from MY 2008”, page 101](#)

⇒ [“4.6.5 Antenna Selection Control Module”, page 102](#)

⇒ [“4.6.6 Navigation System Antenna/Telephone Antenna”, page 102](#)

⇒ [“4.6.7 Satellite Antenna”, page 103](#)

⇒ [“4.6.8 TV Antenna 2”, page 103](#)

4.6.1 Antenna Amplifier

The antenna amplifier is in the base of the left rear mast antenna.

- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove the left luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove mast antenna -4-.
- Remove grommet -3- upward.
- Remove nut -2-.
- Remove antenna amplifier -1- inward from fender and disconnect antenna wiring connections.

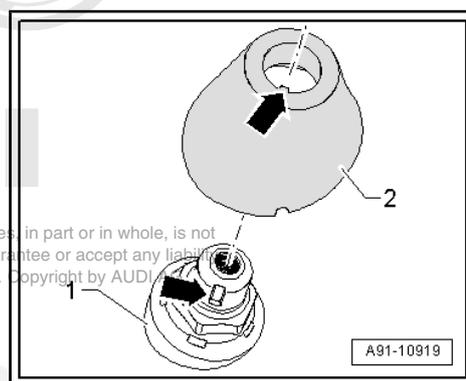
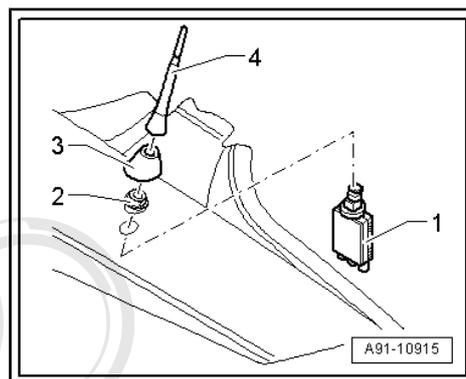
Installing

- Install in reverse order.

- When installing grommet -2-, ensure tab -arrow- in the grommet is above the groove -arrow- on the antenna amplifier -1-.

Tightening specifications. Refer to

⇒ [“2.4.1 Antenna System Assembly Overview”, page 33](#) .



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4.6.2 Antenna Amplifier 2

The antenna amplifier 2 is located behind the right side of the rear bumper below the right tail lamp.

To remove, rear bumper must be removed.

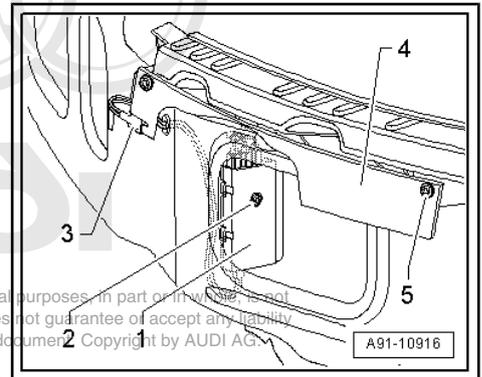
- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove rear bumper. Refer to ⇒ Body Exterior; Rep. Gr. 63 ; Removal and Installation .
- Remove bolt -2- on antenna amplifier 2 -1-.
- Disconnect all harness connectors on antenna amplifier 2 -1-.
- Remove antenna amplifier 2 -1-.

Radio Antenna 2, removal

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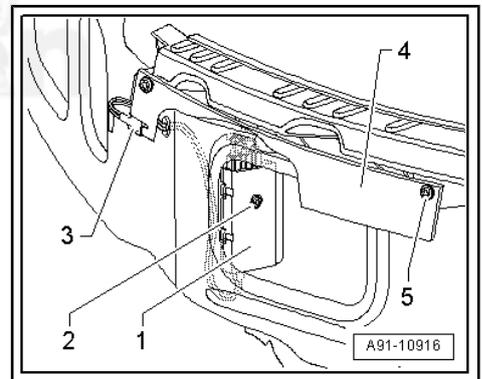


- Disconnect connector -3- on radio antenna 2 -4-.
- Remove bolts -5- on radio antenna 2 -4- and remove antenna.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.4.1 Antenna System Assembly Overview", page 33](#) .



4.6.3 TV Antenna 2, through MY 2007

TV antenna 2/TV antenna 3 is located on the left and right A-pillars.

Removal and installation is same for TV antenna 2 and TV antenna 3.

- Switch off all electrical consumers.
- Remove the key.

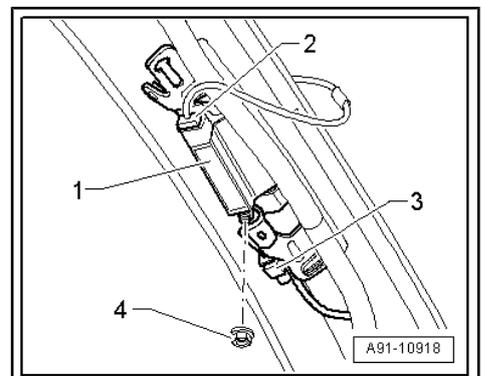
Removing

- Remove left A-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove nut -4-.
- Raise TV antenna 2 -1- from retaining plate and disconnect connectors -2- and -3-.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ ["2.4.1 Antenna System Assembly Overview", page 33](#) .



4.6.4 TV Antenna 2, from MY 2008

TV antenna 2 / TV antenna 3 is located on the left and right A-pillars.

Removal and installation is same for TV antenna 2 / TV antenna 3.

- Switch off all electrical consumers.
- Remove the key.

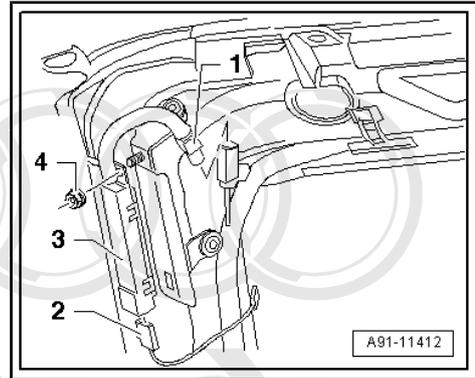
Removing

- Remove the left A-pillar trim. Refer to => Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove nut -4-.
- Remove TV antenna 2 -1- from the bracket and disconnect the connectors -2- and -3-.

Installing

- Install in reverse order.

Tightening specifications. Refer to
=> **"2.4.1 Antenna System Assembly Overview", page 33** .



4.6.5 Antenna Selection Control Module

The antenna selection control module is located in the front of the luggage compartment on the bottom of the compartment partition.

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- Switch off all electrical consumers.
- Remove the key.

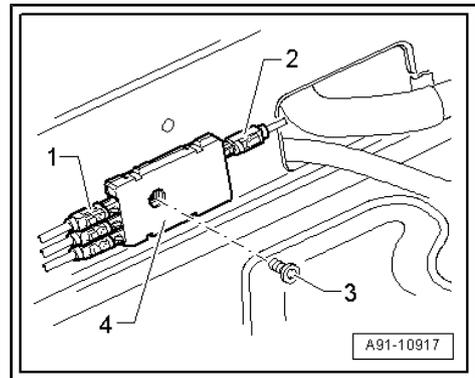
Removing

- Remove the luggage compartment floor covering.
- Remove foam insert.
- Remove bolt -3- on antenna selection control module -4-.
- Disconnect connectors -1- and -2- on antenna selection control module -4- and remove control module.

Installing

- Install in reverse order.

Tightening specifications. Refer to
=> **"2.4.1 Antenna System Assembly Overview", page 33** .



4.6.6 Navigation System Antenna/Telephone Antenna

The navigation system antenna/telephone antenna are located behind the front interior light on the roof frame.

The navigation system antenna/telephone antenna cannot be replaced individually.

- Switch off all electrical consumers.
- Remove the key.

Removing

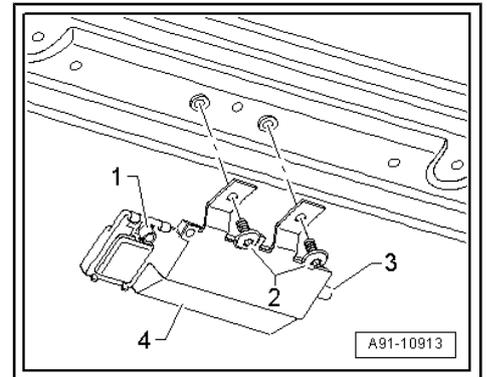
- Remove the roof trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Remove screws -2- on antenna unit -4-.
- Disconnect connectors -1- and -3- and remove antenna unit -4-.

Installing

- Install in reverse order.

Tightening specifications. Refer to

⇒ **["2.4.1 Antenna System Assembly Overview", page 33](#)** .



4.6.7 Satellite Antenna

The satellite antenna is located on the rear lid.

- Switch off all electrical consumers.
- Remove the key.

Removing

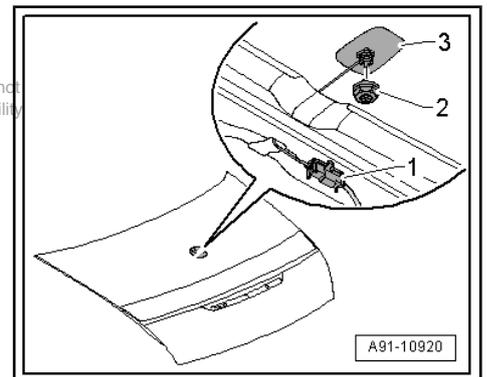
- Remove satellite antenna cover on bottom side of rear lid.
- Disconnect electrical connection -1-.
- Remove nut -2- on satellite antenna -3-.
- Remove satellite antenna -3- upward from rear lid.

Installing

- Install in reverse order.

Tightening specifications. Refer to

⇒ **["2.4.1 Antenna System Assembly Overview", page 33](#)** .



4.6.8 TV Antenna 2

TV antenna 2 / TV antenna 3 is located on the left and right A-pillars.

Removal and installation is same for TV antenna 2 and TV antenna 3.

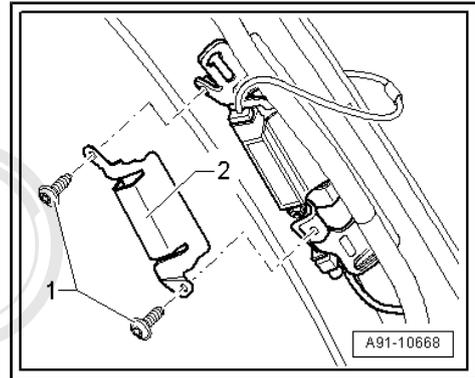
- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove left A-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .

The TV antenna 2 / TV antenna 3 are protected from damage by a cover (metal part). It must be removed first.

- Remove screws -1-.
- Remove cover -2- from the A-pillar.



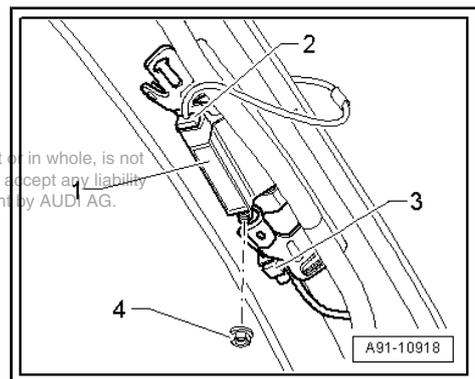
- Remove nut -4-.
- Raise TV antenna 2 -1- from retaining plate and disconnect connectors -2- and -3-.

Installing

- Install in reverse order.

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Tightening specifications. Refer to
 ⇒ **"2.4.1 Antenna System Assembly Overview", page 33** .



4.7 Telephone Systems

⇒ **"4.7.1 Telephone Baseplate", page 104**

⇒ **"4.7.2 Telephone Transceiver", page 105**

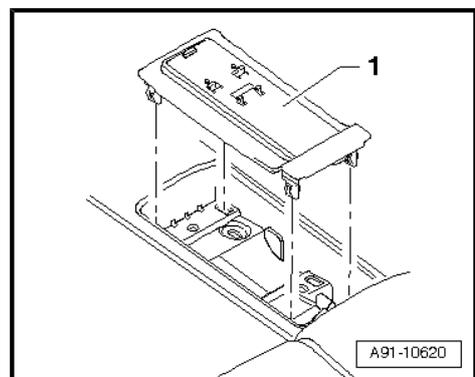
⇒ **"4.7.3 Microphone Unit in Front Roof Module", page 105**

4.7.1 Telephone Baseplate

- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove cellular telephone from telephone baseplate and unclip it.
- Pry telephone baseplate -1- upward.



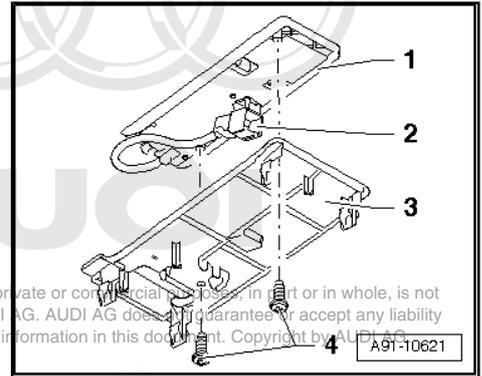
- Remove bolt -4- on bottom side of base plate -3-.
- Disconnect electrical connector -2- on telephone baseplate -1-.
- Remove telephone baseplate -1- upward.

Installing

- Install in reverse order.

Tightening specifications. Refer to
 ⇒ "2.5.1 Coupe, Assembly Overview", page 36

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4.7.2 Telephone Transceiver

telephone transceiver is located in the electronics box under left front seat

- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

Use the Vehicle Diagnosis, Testing and Information System to do so.

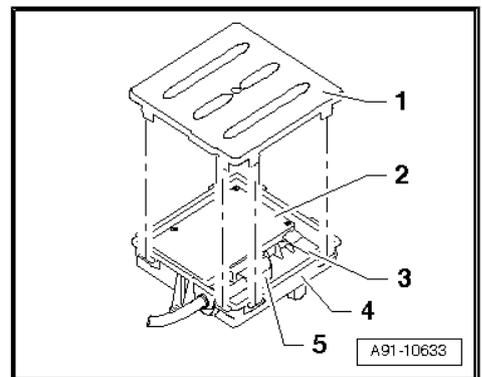
- Switch off all electrical consumers.
- Remove the key.

Removing

- Remove left front seat. Refer to ⇒ Body Interior; Rep. Gr. 72 ; Removal and Installation .
- Cut open the floor covering. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .
- Unclip cover -1- on electronics box -4- and remove it upward.
- Remove bluetooth antenna -3- from telephone transceiver -2-.
- Disconnect electrical connector -5- on telephone transceiver -2-.
- Raise telephone transceiver -2- upward out of electronics box -4-.

Installing

- Install in reverse order.
- Install a carpet frame. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Removal and Installation .



4.7.3 Microphone Unit in Front Roof Module

A maximum of two microphones are installed in the front interior light. They can only be replaced completely.

- Switch off all electrical consumers.
- Remove the key.

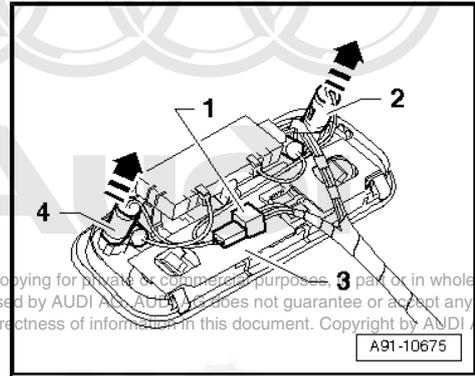
Removing

- Remove front interior light. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Removal and Installation .

- Disconnect electrical connector -1-.
- Unclip microphones -2- and -4- from front interior light -3- -arrows-.

Installing

- Install in reverse order.



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4.8 Navigation System with CD Drive Control Module

Special tools and workshop equipment required

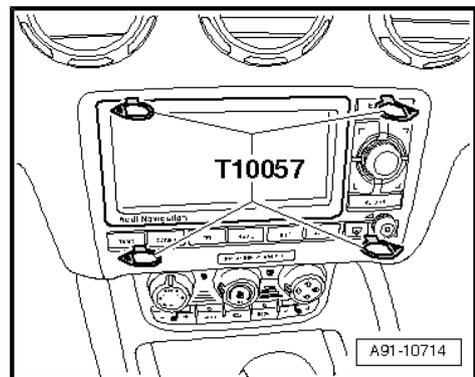
- ◆ Radio Removal Tool -T10057-
- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

Use the Vehicle Diagnosis, Testing and Information System to do so.

- Switch off all electrical consumers.
- Remove the key.

Removing

- Insert radio removal tool into release slots on navigation system with cd drive control module until they engage. Points on grip eyes face outward.
- Remove the navigation system with cd drive control module from the instrument panel using the grip eyes on the radio removal tool.
- Release electrical connectors on navigation system with cd drive control module and remove it.
- Remove radio removal tool by pressing locking tabs on navigation system with cd drive control module.
- Remove front passenger's airbag disabled indicator lamp. Refer to [⇒ "4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).



Installing

- Install front passenger's airbag disabled indicator lamp. Refer to [⇒ "4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).
- Connect all electrical connectors.
- Slide navigation system with cd drive control module straight into instrument panel until it engages in installation frame.

4.9 Radio/Navigation Display Control Module

Special tools and workshop equipment required

- ◆ Radio Removal Tool -T10057-

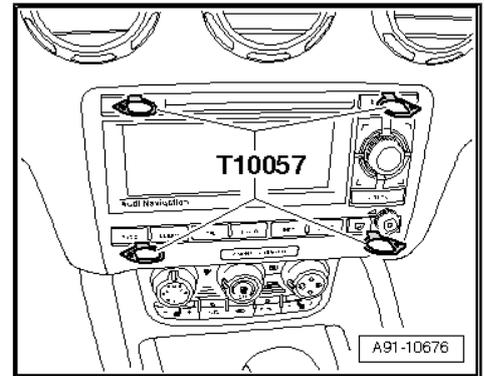
- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

Use the Vehicle Diagnosis, Testing and Information System to do so.

- Switch off all electrical consumers.
- Remove the key.

Removing

- Place radio removal tool -arrows- in release slits on radio/navigation display control module until they engage. Points on grip eyes face outward.
- Remove radio/navigation display control module from instrument panel using grip eyes on radio removal tool.
- Release electrical connectors on radio/navigation display control module and remove it.
- Remove radio removal tool by pressing locking tabs on radio/navigation display control module.
- Remove front passenger's airbag disabled indicator lamp. Refer to ["4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).



Installing

- Install front passenger's airbag disabled indicator lamp. Refer to ["4.2 Front Passenger Airbag Disabled Indicator Lamp", page 87](#).
- Connect all electrical connectors.
- Slide radio/navigation display control module straight into instrument panel until it engages in installation frame.

4.10 CD Changer

Required Special Tools and Equipment

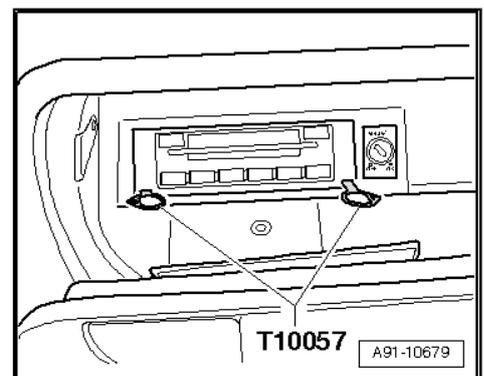
- ◆ Radio Removal Tool -T10057-

- Switch off all electrical consumers.
- Remove the key.

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Removing

- Open the glove compartment.
- If there is a CD still inside the CD changer, remove it.
- Insert two clips on radio removal tool in release slits on CD changer until they engage. Points on the grip eyelets of tool face outward.
- Remove CD changer from installation frame using grip eyes on radio removal tool.
- Disconnect electrical connector on CD changer.
- Remove radio removal tool, push locking tabs on CD changer to do so.



Installing

- Connect electrical connector.
- Slide CD changer into mounting frame until it engages.

4.11 iPod Baseplate

Required Special Tools and Equipment

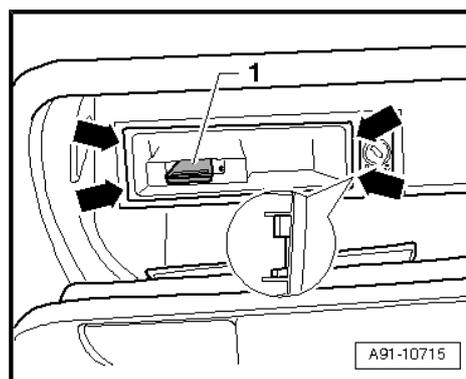
- ◆ Trim removal wedge -3409-
- Switch off all electrical consumers.
- Remove the key.

Removing

- Open the glove compartment.
- Remove iPod -1- from iPod baseplate.
- Using trim removal wedge, carefully pry iPod baseplate out of retainer -arrows-.
- Remove iPod baseplate from glove compartment and disconnect electrical connector.

Installing

- Install in reverse order.



4.12 AMI External Audio Source Connection

The external audio source connection (AMI) is located inside the glove compartment.

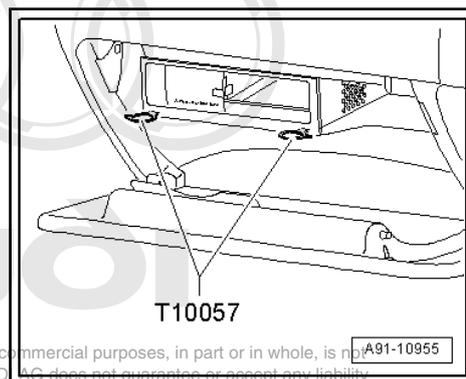
Special tools and workshop equipment required

- ◆ Radio Removal Tool -T10057-
- Switch off all electrical consumers.
- Remove the key.

Removing

- Open glove compartment.
- Insert the two clips of the radio removal tool into the release slits on the external audio source connection until they engage. Points on the grip eyelets of tool face outward.
- Pull external audio source connection out of mounting frame.
- Disconnect all connectors on the external audio source connection.
- Remove the radio removal tool, push locking tabs on external audio source connection to do so.

Remove the internal control unit

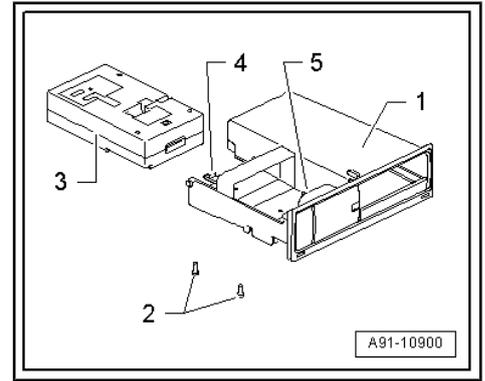


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- Remove the screw -2- on back side (2 Nm).
- Press the tabs -4- and -5- down and up and remove the control module -5- back from the frame -1- .

Installing

- Connect electrical connectors.
- Slide the external audio source connection on the mounting frame until it engages.



4.13 AUX IN External Audio Source Connection

The external audio source connection (AUX IN) is installed inside the center console storage compartment.

- Switch off all electrical consumers.
- Remove the key.

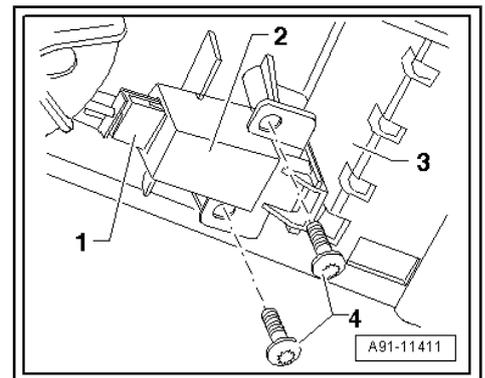
Removing

- Remove the rear center console. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Removal and Installation .
- Disconnect the connector -1- on the external audio source connection -2-.
- Remove bolt -4-.
- Remove the external audio source connection -2- from the center console -3-.

Installing

- Install in reverse order.

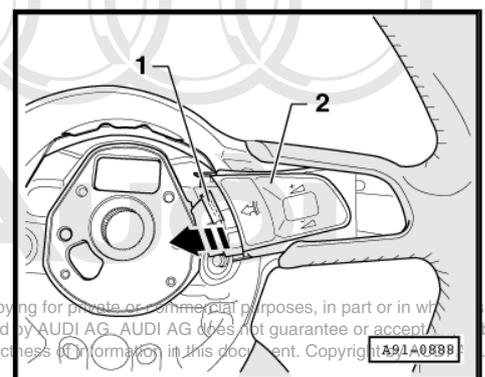
Tightening specifications. Refer to ⇒ "2.1.1 Radio System Assembly Overview", page 8 .



4.14 Multi-function Buttons

Removing

- Remove driver's airbag. Refer to ⇒Body Interior; Rep. Gr. 69 .
- Disconnect harness connector -1- at button -2-.
- Slide button -2- out of steering wheel in -direction of arrow-.
- Turn the button around.



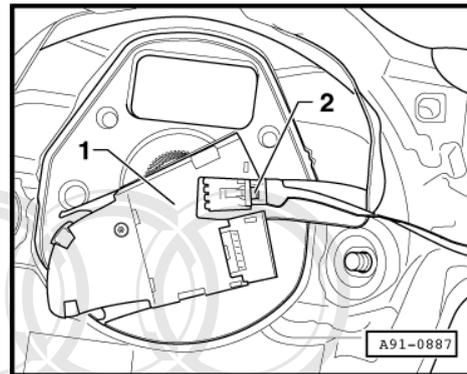
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- Disconnect the connector -2- to tiptronic switch from multi-function button -1- and remove button.

Installing

- Install in reverse order.

Removal and installation of left multi-function button is identical.

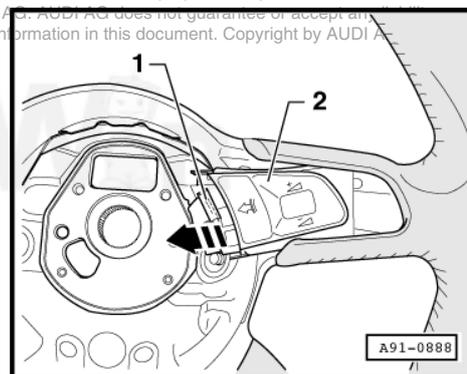


4.15 Tiptronic Switch

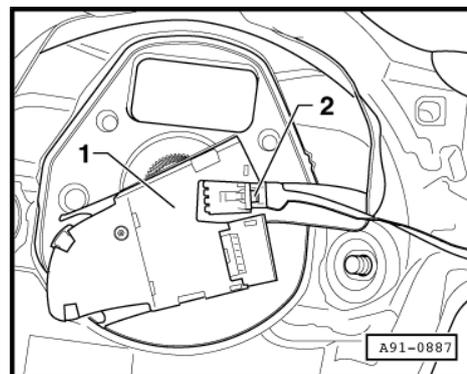
Removing

- Remove driver's airbag. Refer to => Body Interior; Rep. Gr. 69 .
- Disconnect trim ring from steering wheel.
- Slide multi-function button -2- out of steering wheel in -direction of arrow-.
- Rotate multi-function button.

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- Disconnect the connector -2- on the multifunction button -1-.

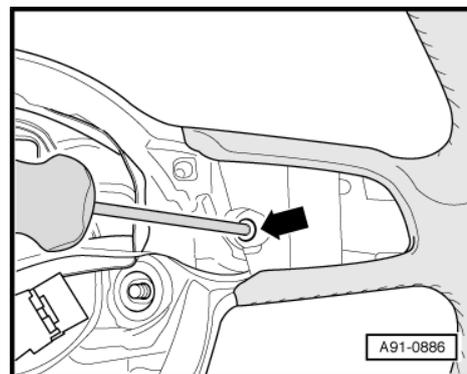


- Remove the bolts -arrow- (3 Nm) and the Tiptronic switch to the rear.

Installing

- Install in reverse order.

Removal and installation of the left switch is identical.



4.16 Steering Column Electronic Systems Control Module

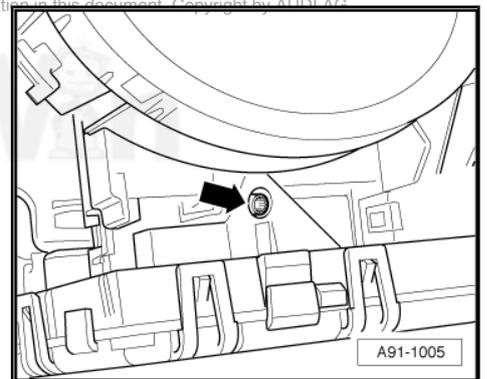
- If control module is replaced, select Replacement function for appropriate control module in Guided Fault-Finding routine.

Use the Vehicle Diagnosis, Testing and Information System to do so.

Removing

- Disconnect battery ground wire. Refer to ⇒ Electrical System; Rep. Gr. 27 ; Removal and Installation .
- Observe airbag system safety precautions. Refer to ⇒ Body Interior; Rep. Gr. 69 ; General Information .
- Remove steering column switch module. Refer to ⇒ Electrical System; Rep. Gr. 96 ; Description and Operation .
- Remove bolt -arrow- (2 Nm) below spiral spring.

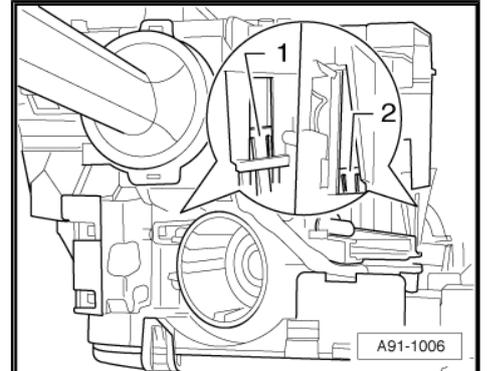
The steering column electronic systems control module is secure to steering column module with two spring retainers.



- Release springs -1- and -2- with a small screwdriver.
- Remove steering column electronic systems control module downward from steering column module.

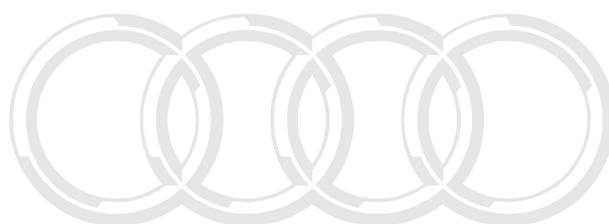
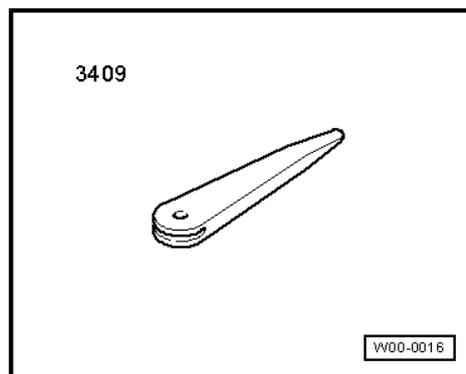
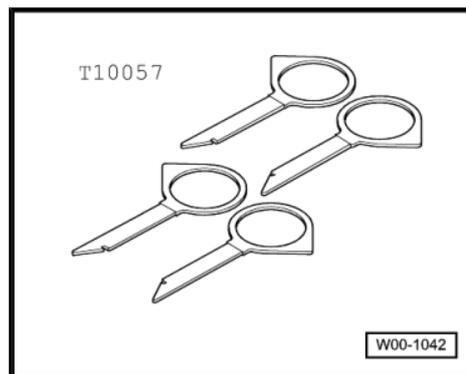
Installing

- Follow the safety precautions for airbag systems. Refer to ⇒ Body Interior; Rep. Gr. 69 ; General Information .
- Install in reverse order.
- Make sure that all connections have engaged and lines lie in proper guides.



5 Special Tools

- ◆ Radio Removal Tool -T10057-
- ◆ Trim removal wedge -3409-



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Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Audi retailer or other qualified shop. We especially urge you to consult an authorized Audi retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Audi.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Audi is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Audi retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.

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Cautions & Warnings

- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.
- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly, do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Audi specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.

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Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.

Cautions & Warnings

- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Audi Service technicians should test, disassemble or service the airbag system.
- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Audi Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.



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