Installation manual
multimedia adapter
Audi

Article-ID
38137
38137-2
38217
38217-1
38218
38218-1

(For vehicles with MMI High 2G, 3G)
General advice

While developing this product, your personal safety combined with the best operating service, modern design and an up-to-date production technique was especially taken into account.

Unfortunately, despite the utmost care injuries and/or damages might occur due to improper installation and/or use.

Please read the attached instruction manual completely with great care and keep it!

All articles of our production line pass through a 100 % check - for your safety and security.

We reserve the right to carry out technical changes which serve the improvement at any time.

According to each article and purpose, it is sometimes necessary to check each country’s legal regulations before installing and starting the unit.

In case of guarantee claims, the device has to be sent back to the seller in the original packaging with the attached bill of purchase and detailed defect’s description. Please pay attention to the manufacturer’s return requirements (RMA). The legal warranty directions are valid.

The guarantee claim as well as the operating permission becomes invalid due to: Der Garantieanspruch und auch die Betriebserlaubnis erlischt durch:

- a) unauthorized changes to the device or accessories which have not been approved or carried out by the manufacturer or its partners
- b) opening the device’s frame
- c) device’s repairs carried out by one’s own
- d) improper use / operation
- e) brute force to the device (drop, wilful damage, accident etc.)
Safety Instructions

Installation requires special knowledge.

Do not install the unit yourself. For safe and reliable installation, consult a dealer having special knowledge.

- **Never use bolts or nuts from the car’s safety devices for installation.** If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the unit, it may cause an accident.

- **Use the unit with a DC 12V negative ground car.** This unit cannot be used in large trucks which use a DC 24V battery. If it is used with a DC 24V battery, it may cause a fire or accident.

- **Avoid installing the unit in the following places:** - Where it would hinder your safe driving. - Where it could damage the car’s fittings.

- **This unit is only for use in the following vehicles.** Only connections described within this instruction guide are allowed or required to use for installation.

- **For damage impact caused by faulty installation, unsuitable connections inappropriate vehicles Kufatec GmbH & Co. KG assumes no liability.**

- **We advise you that these units process data out of the MOST - protocol from the vehicle.** As the supplier of this device we don’t know the overall system you are working with. If our device causes damage due to other changes made by to the vehicle Kufatec GmbH assumes no liability.

- **Kufatec GmbH & Co. KG supplier do not guaranty the use of the product for changing’s within a new vehicle series.**

- **If the car manufacturer’s don’t agree with the installation of our device by reason of warranty the Kufatec GmbH & Co. KG assumes no liability.** Please check conditions and warranty before you begin the installation.

- **Kufatec GmbH & Co. KG supplier reserves the right to change the device specifications without notice.**

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**NOTE:** The road traffic has to have your full attention.

Operations should only be done by suitable traffic and weather situations. The volume need to be set that you are still able to realise acoustic warn signals (Police, fire brigade).

- **Errors and changes excepted.**

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**References of legal regulations for operation**

Only use this unit in the intended domain.

If you use it in a foreign domain, if the unit is not installed properly, or if the unit will be reconstructed, the guarantee will expire.
Multimedia adapter

- Easy installation, No cutting of wires necessary
- Factory fitted functions do not get affected at all
- OEM-menu driven operation by MMI panel (Only interface version “Plus”)
- Audio output through the vehicle speakers - no installation of additional speakers necessary

**Note MMI 2G:** In case the vehicle is not factory fitted with rear view camera (RVC) the displayinterface needs to be replaced. A displayinterface with FBAS input is needed. After replacing the displayinterface the component protection needs to be removed. Please contact your local Audi dealer.

Detailed information please see page 21

**NOTE:** Before installing the multimedia system you need to check whether the car is retrofitted with an interface not developed by Kufatec GmbH & Co. KG. In case a non-Kufatec interface is fitted we are not able to guaranty the absolute operation of the multimedia system. You may need to remove the non-Kufatec interface.

**NOTE:** Fiber optical looms MUST NOT BE CRACKED! The recommended radius for fitting is 40 mm.
In case of incorrect fitting we are not able to guaranty the absolute operation of the multimedia system.

**Fitting location for end devices**
Device fitting (DVD, DVB-T) supposed to be on various locations within the back of the vehicle. In case of fitting the device in the front (e.g. DVD-Player) an additional AV loom will be needed.

**Note:** While fitting 2 devices at the same time (DVD Player + DVB-T) an Y-junction for fitting both control lines (Kufatec article-ID 35551) is needed (Fig. 1).

**Accessories**
- Article-ID 35601 – Y-junction jack for connecting control line + infrared eye (remote) at the same time
- Article-ID 36482 – Y-junction for connecting control line + infrared eye (remote) at the same time
- Article-ID 37613 – AV wiring (extension) 550cm
Wiring diagram

* If factory fitted

**NOTE:** For vehicles with factory analog TV (MMI 2G) please see installation notes page 10.

**ACC (Blue)** – Connection to the ACC loom of the multimedia device (DVD/ DVB-T)

In case the multimedia device doesn’t have any ACC loom the ACC loom of the interface will stay without any functionality.

**NOTE:** Power supply looms of DVD/ DVB-T must not be connected to the ACC loom of the video interface! The video interface will be destroyed!

This loom has to be protected while using an additional fuse of 1Ampere.

### Control lines

For operating the devices (DVD, DVB-T) through the original MMI panel (Only for interface „Plus”) a specific control line is needed (table below).

<table>
<thead>
<tr>
<th>Device</th>
<th>Kufatec article-ID.</th>
<th>Device</th>
<th>Kufatec article-ID.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD Player Ampire DVX 101</td>
<td>35550</td>
<td>DVD-T Ampire DVBT 52</td>
<td>35549</td>
</tr>
<tr>
<td>DVD Player MP 410U</td>
<td>35550</td>
<td>DVD-T Ampire DVBT 200</td>
<td>35549</td>
</tr>
<tr>
<td>DVD Player BOA 85700</td>
<td>35550</td>
<td>DVD-T Ampire DVBT 400</td>
<td>35549-1</td>
</tr>
<tr>
<td>DVD Player Aliv Car DVD Player</td>
<td>35550</td>
<td>DVD-T Alpine TUE-T150DV</td>
<td>35547</td>
</tr>
<tr>
<td>DVD Player DVD 145</td>
<td>35552</td>
<td>DVD-T Dietz 1491</td>
<td>35553</td>
</tr>
<tr>
<td>DVD Player 500 U</td>
<td>35550</td>
<td>DVD-T Dietz 1492</td>
<td>36923</td>
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<tr>
<td>DVB-T Zemex D90-2G</td>
<td>38265</td>
<td>DVB-T DAS M21</td>
<td>38400</td>
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<tr>
<td>DVB-T Zemex D100</td>
<td>35549-1</td>
<td>iPod Video Interface Alpine KCE 425i</td>
<td>35552</td>
</tr>
<tr>
<td>DVD Changer Zemex DVC62</td>
<td>38505</td>
<td>DVB-T Kufatec HR-5A, 5AX</td>
<td>38775</td>
</tr>
</tbody>
</table>
Installation instruction MMI 2G

For vehicles WITHOUT factory fitted rear view camera

1 – Radiobox A4 8K, A5 8T, A6 4F, A8 4E
2 – Radiobox Q7 4L
3 – Displayinterface A4 8K, A5 8T
4 – Displayinterface A6 4F, A8 4E, Q7 4L

For vehicles WITH factory fitted rear view camera

1 – Radiobox A4 8K, A5 8T, A6 4F
2 – Radiobox Q7 4L
3 – RVC – control unit Q7 4L
4 – RVC – control unit A4, A5, A6 4F, A8 4E

Location Radiobox

The fitting location of the radiobox can be verify within the vehicle.

A4 8K, A5 8T, A6 4F, A8 4E
Q7 4L
Interface connection MMI 2G

**Fiber optic cable**

The connection will be completed plug & play on the back of the radiobox.

Remove the original fiber optical cable of the radiobox (Fig. 9). Join the original fiber optical connector to the female connector of the delivered loom (Fig. 10).

Put the optical connector of the delivered loom to the radiobox (Fig. 11). Figure 12 is showing the final connection of the multimedia interface.
Power

The connection will be completed plug & play on the back of the radiobox. Remove the original power connector of the radiobox (Fig. 13). Join the original connector to the female connector of the delivered loom (Fig. 14).

Put the connector of the delivered loom to the radiobox (Fig. 15). Figure 16 is showing the final connection of the multimedia interface.

Join the 18-pole connector as well as the fiber optical to the interface (Fig. 17). Join the connections for audio- video as well as the control line (Fig. 18). **Note:** The control line will only be needed in case of interface version “Plus”.

**Single loom Blue** (Fig. 19) – connecting to the **ACC** loom of the device (DVD/ DVB-T).

BEFORE connecting the loom make sure it is the ACC loom of the DVD/ DVB-T device!

In case the multimedia device doesn’t have any ACC loom the ACC loom of the interface will stay without any functionality.

**NOTE:** Power supply looms of DVD/ DVB-T must not be connected to the ACC loom of the video interface! The video interface will be **destroyed**!
Connection video loom MMI 2G

For vehicles WITHOUT factory fitted rear view camera

Wire the loom into the front of the vehicle (Fig.20 - 22).

A4 8K, A5 8T

Remove the climate control with suitable tools (Fig. 23). Remove the CD-changer (Fig. 24). Loosen the necessary screws of the display interface and remove it (Fig. 25).

A6 4F, A8 4E, Q7 4L

Loosen the necessary screws of the glove box (Fig. 26, 27). Remove the display interface (Fig. 28).
Connect the video loom to the displayinterface (Fig. 29).

In case the vehicle is not factory fitted with rear view camera (RVC) the displayinterface needs to be replaced – Kufatec Article-ID. 35600

Notes please see page 21

Connection video loom MMI 2G – RVC available

For vehicles WITH factory fitted rear view camera

Location RVC control unit

Depending of the vehicle the RVC-control unit is fitted on different fitting locations.

A4 8K, A5 8T, A6 4F, A8 4E

Q7 4L

Connect the video loom to the RVC-control unit - FAKRA BROWN (Fig. 32).
Connection in case of factory fitted analog TV MMI 2G

For vehicles with factory fitted analog TV tuner.

NOTE: Not suitable for MMI 3G

Location analog TV tuner

The TV tuner is located with the infotainment rack of the vehicle (Fig. 33).

Item number 38186-2 (Fig. 34).

Factory fitted analog tuner needs to be removed.

Join wiring 38186-2 with the connections of the factory fitted TV-Tuner.

TV Tuner connector Red   FAKRA GREEN

Join the 18-pole connector of the loom 38186-2 as well as the original fiber optical connector (TV tuner) to the interface (Fig. 37).
Installation instruction MMI 3G

1 – Radiobox A4, A5, A6 4F, A8 4E, Q5 8R
2 – Radiobox Q7 4L
3 – Radiobox A8 4H
4 – MMI 3G unit A4/ A5, A8 4H, Q5 8R, Q7 4L
5 – MMI 3G unit A6 4F
6 – DVD-Changer A8 4H

**Audi A4 8K, A5 8T, A6 4F, Q5 MMI 3G**

Loosen the necessary screws of the trunk cover on the left hand side (Fig. 39). The radiobox is located behind the cover (Fig. 41).

**Audi Q7 4L MMI 3G**

Remove the trunk cover on the right hand side. The radiobox is located behind (Fig. 43).
Audi A8 4H

Remove the trunk cover on both sides. Remove the cover of the rear seats (Fig. 46).

Loosen the necessary screws of the bracket of the comfort control unit (Fig. 47, 48). The radiobox is located behind (Fig. 49).

Interface connection MMI 3G

**Fiber optic cable**

The connection will be completed plug & play on the back of the radiobox.

Remove the original fiber optical cable of the radiobox (Fig. 50). Join the original fiber optical connector to the female connector of the delivered loom (Fig. 51).
Put the optical connector of the delivered loom to the radiobox (Fig. 52). Figure 53 is showing the final connection of the multimedia interface.

![Figure 52](image1.png)  ![Figure 53](image2.png)

**Power**

With the connection of 2 new wires to the Quadlock connector of the radiobox you will complete the fitting of the power supply. Please see Fig 55. In order to achieve a proper connection we recommend both crimping and soldering the new wires.

**Brown (Ground) – PIN 17**  **Red (Steady plus) – PIN 18**

![Figure 54](image3.png)  ![Figure 55](image4.png)

Join the 18-pole connector as well as the fiber optical to the interface (Fig. 56). Join the connections for audio-video as well as the control line (Fig. 57). **Note:** The control line will only be needed in case of interface version “Plus”.

![Figure 56](image5.png)  ![Figure 57](image6.png)  ![Figure 58](image7.png)

**Single loom Blue** (Fig.58) – connecting to the **ACC** loom of the device (DVD/ DVB-T).

BEFORE connecting the loom make sure it is the ACC loom of the DVD/ DVB-T device!

In case the multimedia device doesn’t have any ACC loom the ACC loom of the interface will stay without any functionality.

**NOTE:** Power supply looms of DVD/ DVB-T must not be connected to the ACC loom of the video interface! The video interface will be **destroyed**!
Connection video loom MMI 3G

Wire the loom into the front of the vehicle (Fig. 59 - 61).

A4 8K, A5 8T, Q5 8R, Q7 4L
Remove the MMI 3G unit (Fig. 62, 63).

A6 4F, A8 4E
Loosen the necessary screws of the glove box (Fig. 64, 65).
A8 4H

Loosen the screw of the center consol cover (Fig. 66) as well as the screws of the MMI 3G unit cover (Fig. 67). Remove the MMI 3G unit.

A7 4G

Climate control needs to be removed by using suitable tools (Fig. 69). Loosen the screw of the MMI 3G head unit (Fig. 71). Remove the MMI 3G unit of the center console.

Connect the video loom to the **MMI 3G unit – FAKRA GREEN** (Fig. 72).
**NOTE:** In case the vehicle is factory fitted with DVD-changer (e.g. A8 4H, A7 4G) the video loom has to be connected to the DVD-changer.
Coding

After installation the system needs to be coded. Please contact an Audi dealer.

In order to code the vehicle system you need to choose the **Self-Diagnosis**. Please complete the coding step by step as shown on images below.

**Address 19**

TV-Tuner needs to be set from not coded to coded - confirmation
Setup video interface

1. Push the **MEDIA** button – **TV-Tuner** needs to be selected (Fig. 75, 76).

2. Select the menu **90- SYS-SETUP** – Push the rotate controller (Fig. 77).

3. Setup for device operation
   
   **1C:** Configuration **Single- or Dual-control**
   
   - **SUMMARY:**
     - 1C00: Control of **ONE** device – Dual-control is deactivated
     - The device has to be selected through menu 2C
     - In case of **TWO** devices the first device has to be selected through menu 1C01 to 1Cxx (please see table).

   **2C:** Multimedia devices for **Dual-control**
   
   - Selecting devices through the menu 2C00 to 2Cxx

   The * symbol within the MMI screen is displaying the current configuration.

   **NOTE:** In case of **one** device 1C00 has to be set first before selecting the device through the 2Cxx menu.
4. **Safe settings** – select the menu **SAVE** in order to store the configuration (Fig. 81).

5. Volume setup – select the menu **VOLUME UP** (Fig. 82). Push the button as long as the volume of the multimedia device has arrived to maximum.

**NOTE:** In case of interface version „Basic“ the volume needs to be set by using the remote control.

**NOTE:** For easy operation we always do suggest fitting the remote eye of the multimedia device in addition.
Devices

1Cxx
1C01 – DVD Player Ampire DVX101
   DVD Player MP 410U
1 C02 – DVD Player AIV Car DVD Player
   DVD Player BOA 85700
1C03 – DVD Player DVD145
   DVD Player 500U
1C04 – DVB-T Alpine TUE-T150DV
1C05 – DVB-T DAS M21 (from Interface SW 1.13)
1C06 – DVD changer Zemex DVC62 (from SW 1.18)

2Cxx
2C01 – DVB-T Dietz 1492/ 1493
2 C02 – DVB-T KTC dual3000
   DVB-T Dietz 1491
2 C03 - DVB-T Ampire DVB-T 200, 400 2G/ 3G
2 C04 – DVB-T Ampire DVB-T 52
   DVB-T Zemex DVB-T 100
   DVB-T Bullit HD 4G
   DVB-T ASUKA ARA-HD
   DVB-T Ampire 55-HD
   DVB-T Kufatec HR-5A, 5AX
2 C05 – DVD Player Ampire DVX101
   DVD Player MP 410U
2 C06 – iPod Video Interface Alpine KCE 425i
2 C07 – DVD Player AIV Car DVD Player
   DVD Player BOA 85700
2 C08 – DVD Player DVD145
   DVD Player 500U
2 C09 – DVB-T Alpine TUE-T150DV
   DVB-T Alpine TUE T200
2 C10 – DVB-T Zemex D90-2G
2C11 – DVD Player DVD500U
2C12 – DVB-T DAS M21 (from Interface SW 1.13)
2C13 – DVB-T HD-DVB-T
2C14 – DVD changer Zemex DVC62 (from SW 1.18)

NOTE image display
For proper image display in some cases the end devices need to be set to 16:9 screen. Please complete within the menu of the device.

NOTE TV Norm
While using the MMI panel the TV norm needs to be set Europe:
TV > SETUP > TV-Norm > Europe
Operating video interface

**NOTE:** Device operating is only possible with video interface version PLUS.

The device will be operated through the MMI panel (Fig. 84, 85).

Press **MEDIA** (Fig. 86) – select the **TV-Tuner** source (Fig. 87).

Up to 65 channels can be choosen.

**Features**

By using the MMI panel the following functions of the device (DVD, DVB-T) can be selected (Fig. 88). – detailed listing please see table.
Operating features

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<tr>
<th>Display MMI screen</th>
<th>Feature</th>
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<tbody>
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<td>OK-button remote</td>
</tr>
<tr>
<td>80 - Power</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>80 – Radio</td>
<td>Switching between TV-mode and digital radio (only available in specific regions)</td>
</tr>
<tr>
<td>80 – VideoInput</td>
<td>Switching to the second device</td>
</tr>
<tr>
<td>80 – Search</td>
<td>Channel scanning</td>
</tr>
<tr>
<td>80 – Exit</td>
<td>Exit- button remote</td>
</tr>
<tr>
<td>80 – Up</td>
<td>Arrow up- button remote</td>
</tr>
<tr>
<td>80 – Down</td>
<td>Arrow down- button remote</td>
</tr>
<tr>
<td>80 – Left</td>
<td>Arrow left- button remote</td>
</tr>
<tr>
<td>80 – Right</td>
<td>Arrow right- button remote</td>
</tr>
<tr>
<td>80 – Next</td>
<td>Next track</td>
</tr>
<tr>
<td>80 – Previous</td>
<td>Previous track</td>
</tr>
<tr>
<td>80 – Volume Up</td>
<td>Volume multimedia device up</td>
</tr>
<tr>
<td>80 – Volume Down</td>
<td>Volume multimedia device down</td>
</tr>
<tr>
<td>80 – USB</td>
<td>USB source</td>
</tr>
<tr>
<td>80 – Setup</td>
<td>Menu-button remote</td>
</tr>
<tr>
<td>90 – Sys. Setup</td>
<td>Setup configuration multimedia adapter</td>
</tr>
</tbody>
</table>

Additional Video Input (Only for interface version “PLUS”)

Note: No processing of audio signals – only video signals

Remove the housing of the 18-pole connector of the main loom. Integrate the single PIN’s of the RCA - connector (Kufatec article-ID 35570) (Fig. 89).

**PIN 15 – Video ground (Black)**

**PIN 16 – Video (Yellow)**

The video source needs to be selected *manually* through the AV source on the MMI panel. **NOTE:** No auto switch available by choosing the rear gear.
Replacement Displayinterface

NOTE: before replacing the displayinterface all MMI components needs to be updated to the latest software index. Please get in contact with your local Audi dealer.

Needle update CD

<table>
<thead>
<tr>
<th>Model</th>
<th>CD-part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6 4F, A8 4E, Q7 4L</td>
<td>4L0 998 961</td>
</tr>
<tr>
<td>A4 8K, A5 8T</td>
<td>8K0 998 961</td>
</tr>
</tbody>
</table>

Procedure

Disconnect battery \(\Rightarrow\) replace interface \(\Rightarrow\) connect battery again

Turn ignition on \(\Rightarrow\) remove component protection (Get in contact with your local Audi dealer – online connection is required)

Address 07 \(\Rightarrow\) remove component protection (In some cases the coding machine is asking a blocking time – These time needs to be elapsed completely)

Additional coding Address 07

Country code, Vehicle – Note down the values of the old interface \(\Rightarrow\) Copy the values into the new interface

Additional adaption channels

Channel 01 – MMI device list (ACC, AAS, PDC, MFSW, TPMS, RVC)
Channel 02 – Options within CAR menu (Left hand drive, battery status)
Channel 11 – Additional MMI features (logbook, clima comfort, aux heating)
Channel 12 – Phone version (1 for PR-Nr. 9ZW – 2 for PR-Nr. 9ZF)
Channel 13 – Protocol setting: 0 = A6, A8, Q7 / 8191 = A4 8K, A5 8T
Channel 111 – MMI start for activating the configurated values

NOTE: Kufatec GmbH & Co. KG has got no influence in deleting the component protection. In case it is not possible to delete the protection please get in contact with info@kufatec.de.