



## INSTALLATION MANUAL



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# 1. Introduction

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Digital radio tuner DAB/DAB+ for factory car radio VW/SKODA/SEAT/AUDI. Module JRDAB-04 allow to receive and play digital radio stations on factory sound system. Device has function which allow to follow selected station while riding. Full integrated with CAN bus system.

## 2. Recommendations

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### Copyright

All assembly and operating instructions are protected by copyright. Distributing documentation via print or online media is only allowed with the prior consent of JUNA electronics.

### Important

Please read installation manual very careful and keep it in right way. During installation, pay attention to all relevant aspects related to safety of installation and use of the device.

The priority during the design and production of all devices by JUNA electronics company is security and service comfort. It has been achieved by applying the modern techniques of design and production processes of electronic devices.

Module should be installed in technical workshops by qualified personnel or by people who have experience in this type of installations. Installation of devices by not qualification people can cause injury to persons or damage to property.

It is recommended keep to the general safety rules and pay attention for any threat that can cause of damage to the vehicle.

We advice to mount device in safety place, where it is not exposed for moisture, water or too high temperatures.

## 2.1. Recommendations

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Device should not be installed in places where it could difficult safe driving or operating efficiency of other units installed in vehicle.

The devices can be connected only to 12V. Modules can't be used in vehicles with 24V and higher voltage.

Please note that most of our devices are based on software that may require an update. That's why you should always mount the device in easily available place in the vehicle.

In some countries it may be necessary to check the legal provisions before installation and startup of the device. In the interest of high quality and development of our products, JUNA Electronics reserves the right to make technical changes.

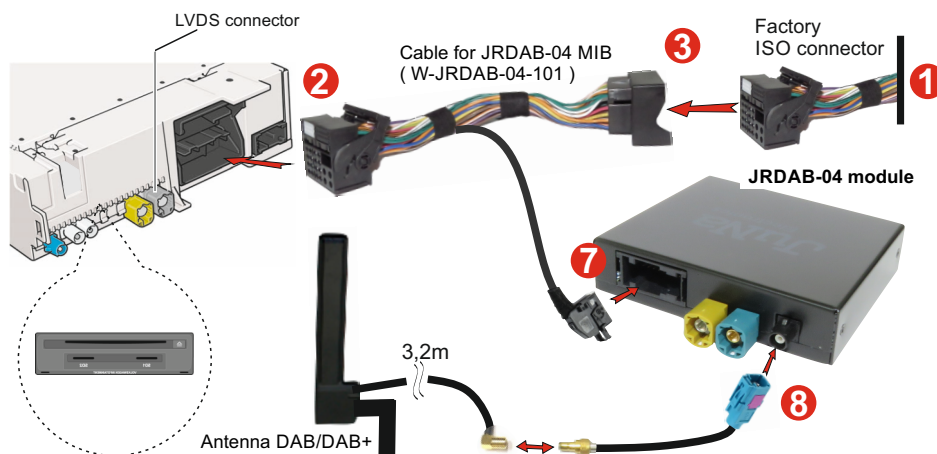
In the case of a warranty claim, the device should be sent back to the seller in original packaging with a detailed description of the problem with attached purchase invoice.

Warranty claims as well as exploitation rights expire due:

- A) Not authorized changes in devices or accessories, which have not been approved or have not been provided by the manufacturer or his partners.
- B) Opening the device's box
- C) Yourself repair the device
- D) Improper use / improper operation of the device
- E) Mechanical damage
- F) Flooding with water or other liquids

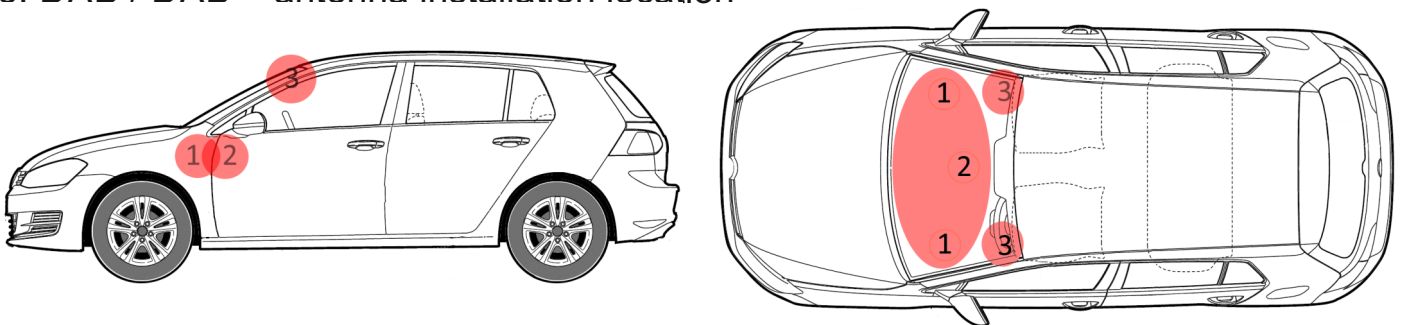
### 3. Connection diagram for the DAB module

1. Turn off the ignition and vehicle radio
2. Disconnect the factory ISO connector from the MIB unit **1**
3. Connect the harness ISO plug from the set to the vehicle's MIB **2**
4. Connect the factory ISO connector plug to the ISO harness socket **3**
5. Connect the LVDS cables to the LCD screen depending on where the module is installed: see **4. Location of the kit components**
6. Connect the harness cable 18 pin to the JRDAB-04 module **7**
7. Connect the FAKRA antenna connector to the JRDAB-04 module **8**
8. Turn on the ignition and start the vehicle radio
9. Perform the station search process



### 4. Location of the kit components

1. Connecting the JRDAB-04 module behind the car glove box
2. Connecting the JRDAB-04 module below the LCD screen
3. DAB / DAB + antenna installation location

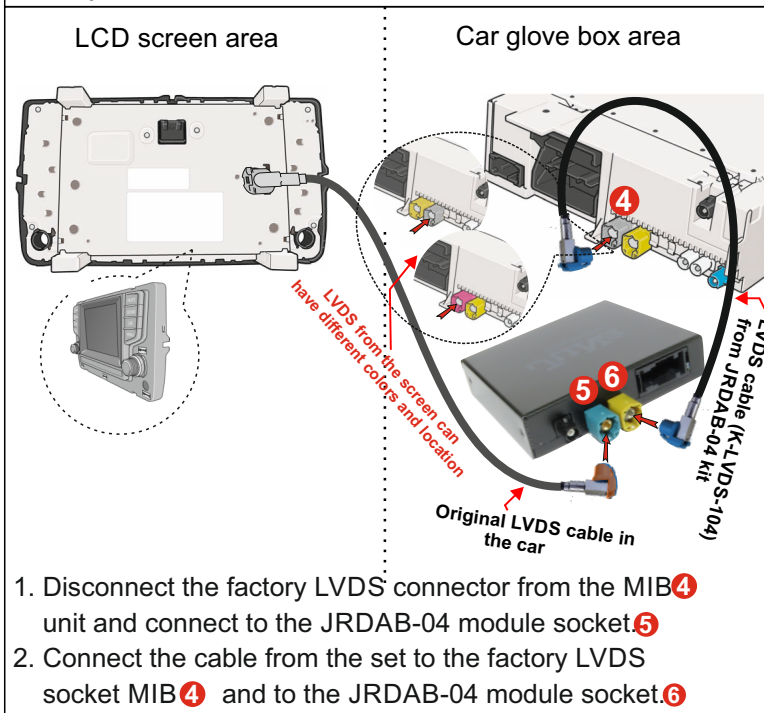


#### Important information

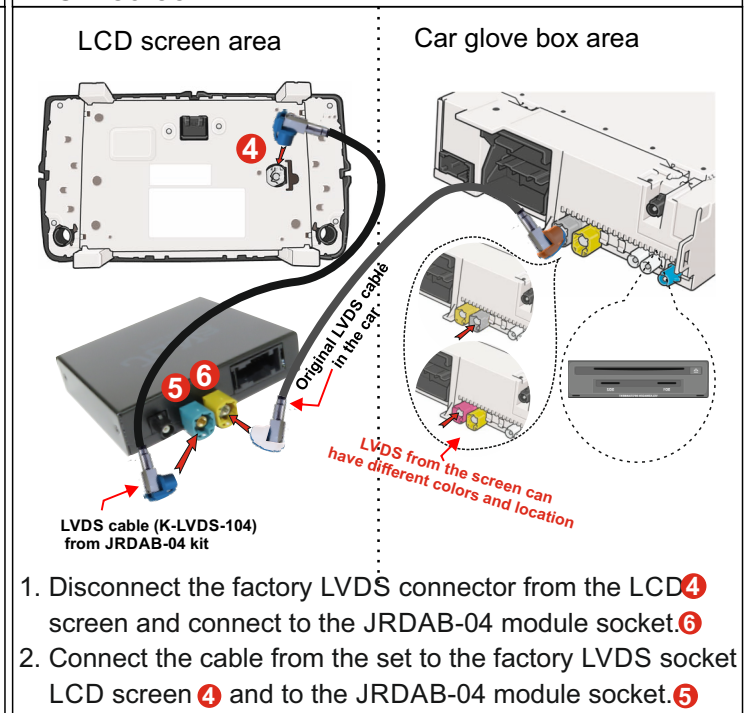
*AUX support is required for the JRDAB-04 module to work properly. If the radio does not have the AUX option active, activate it. More information on page 7.*



The way of connecting the LCD screen when the JRDAB-04 module is mounted in the Car glove compartment area.

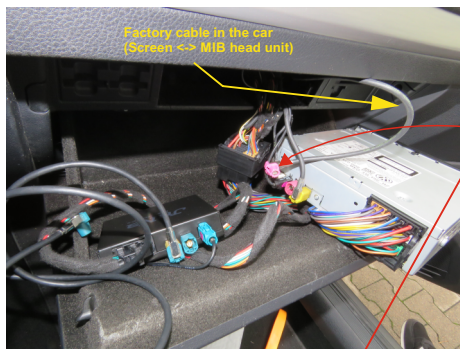


The way of connecting the LCD screen when the JRDAB-04 module is mounted under the LCD screen.

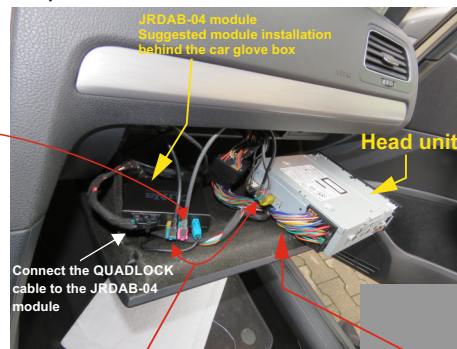


## 1. Location and connection of the module behind the car glove box

Installation example in VW GOLF 7 variant



The factory cable should be disconnected from the head unit and connected to the green socket of the JRDAB-04 module

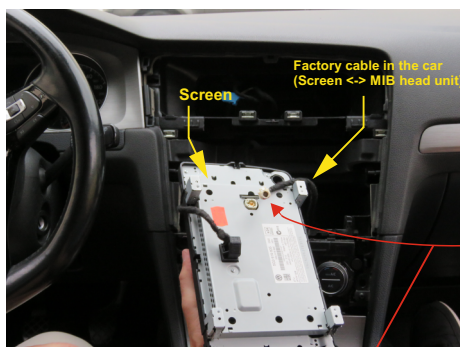


Connect the main unit to the JRDAB-4 module (yellow socket) with the K-LVDS-104 cable.

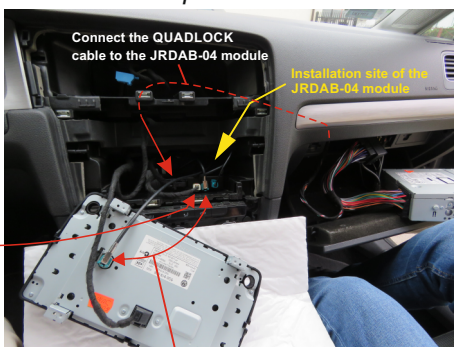
Connect the W-JRDAB-04-101 cable between the head unit and the factory cable (QUADLOCK)

## 2. Location and connection of the module under the LCD display

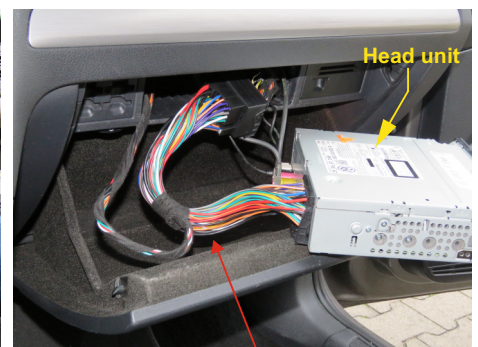
Installation example in VW GOLF 7 variant



The factory cable should be disconnected from the screen and connected to the yellow socket of the JRDAB-04 module



Connect the screen to the JRDAB-4 module (green socket) with the K-LVDS-104 cable.



Connect the W-JRDAB-04-101 cable between the main unit and the factory cable (QUADLOCK)

## 5. Antenna connection

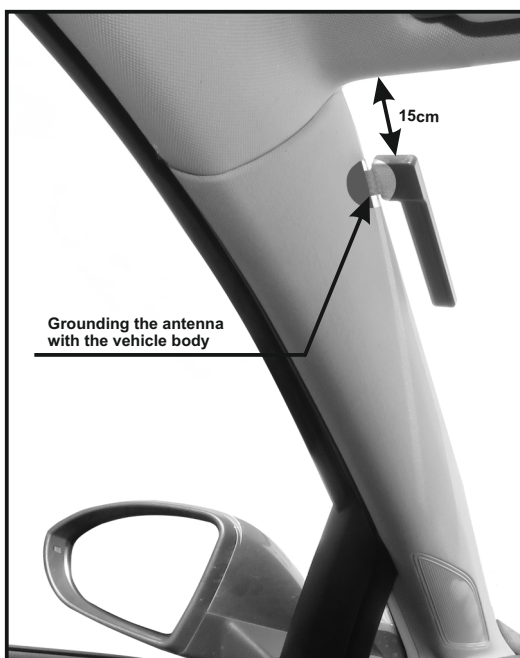
The device in addition to the possibility of connecting the DAB/DAB+ antenna included in the set, allow to connect the factory antenna set which includes the factory antenna with the antenna amplifier mounted most often on the tailgate of the luggage compartment. The amplifier is powered from the JRDAB-04 module with 8,2V or 12V max 150mA.

### Important:

During installation antenna cable along the pistol it is necessary to pay attention for side airbags. Cable must be installed in way to not disturb the proper operation of the air curtain.

### Installation process:

- 1) Installation of antenna is not recommended when windscreen is very cold
- 2) Antenna should be mounted on windscreen from passenger side
- 3) Carefully remove the passenger side pistol cover
- 4) Clean a place where antenna will be mounted
- 5) Antenna should be mounted 15 cm from top edge and 7 cm from side edge of windscreen
- 6) Ground element of antenna amplifier should touch metal part of post. It can be join to factory painted part of pistol
- 7) Antenna cable should be mounted in way to not interference with side airbag



Example of mounting a DAB/DAB+ antenna

Before antenna installation on windscreen remove top safety cover.



To join a metal ground component of antenna amplifier remove top safety cover. Join copper ground component with metal part of cars body.

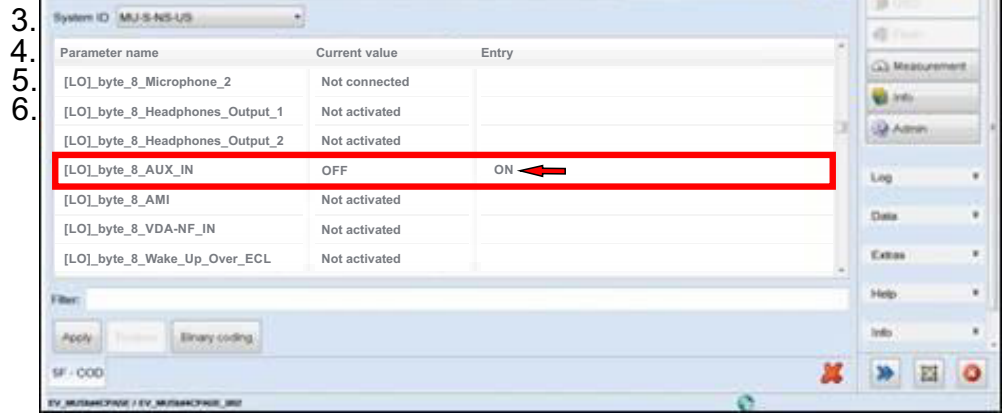


Antenna DAB/DAB+

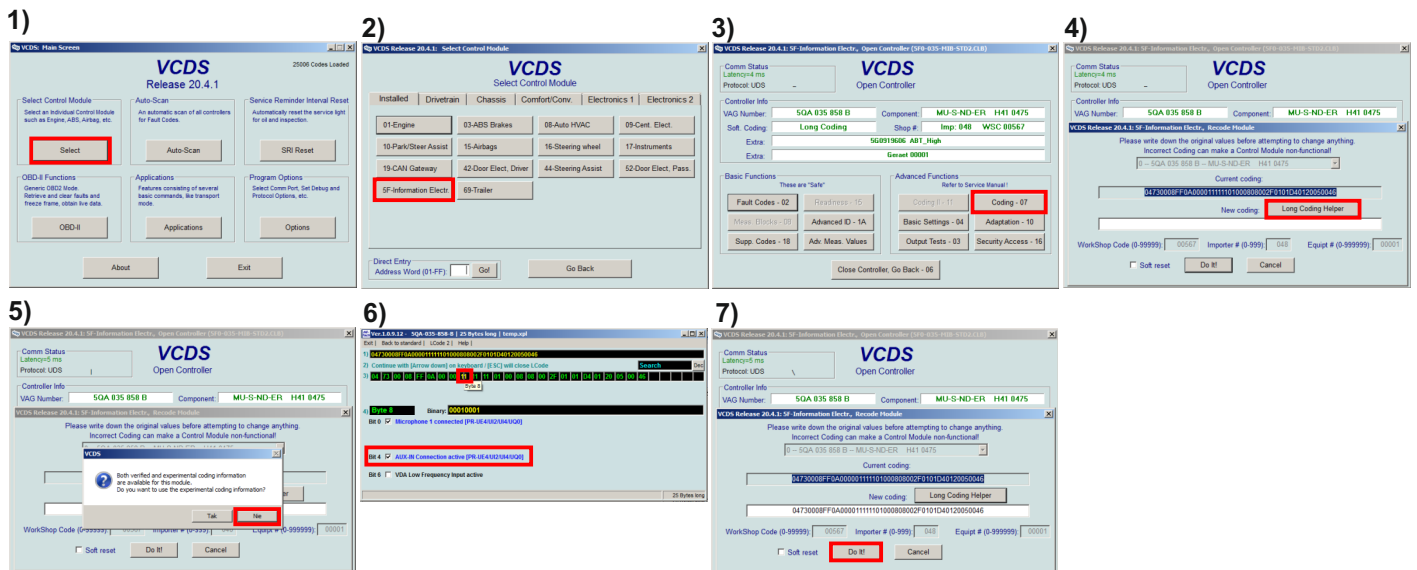
# 6. AUX activation

## Example Coding with ODIS

1. Select the **"Self-diagnosis"** operating mode
2. From the upper list of options, select **"Coding"**
3. Find the radio unit in the main window [ **0019 -> 005F** ]
4. After entering the settings of the radio unit, look for the [ **LO** ]\_byte\_8\_AUX\_IN parameter
5. After selecting the above parameter, we change the current value to **"ON"**
6. We save the new setting



## Example Coding with VCDS



The above method of activating AUX is not necessary when the car is equipped with the Media IN module, for the AUX function to be active, the AUX cable Fig.1 must be plugged into the Media IN-30pin socket Fig.2. Note: The jack plug must be protected against short circuits.



Note: With some radio units it may be necessary to activate AUX in the settings radio (MEDIA / SETUP).

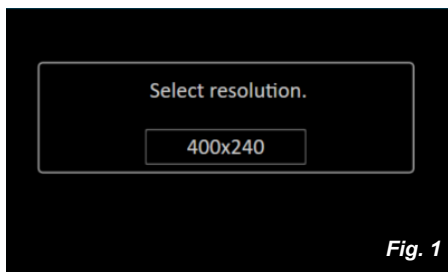
**After the whole activation process of the AUX source, it is recommended to restart the radio.**



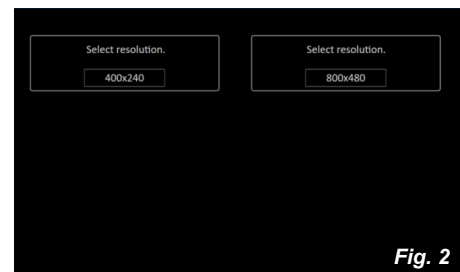
## 8. Adjustment to the car

After completing the installation process and turning on the DAB radio for the first time, it is necessary to perform the matching process with the head unit and car equipment.

- 1. Selecting the screen resolution after turning on the DAB radio for the first time:**  
a window will appear on the screen, allowing to select the appropriate screen resolution to match the main MIB unit Fig.1,2. This window will appear for the brand new JRDAB-04 module. When we choose the resolution, the information will remain stored and will not reappear when DAB radio is turned on again.



Main unit window with screen  
400x240 pix resolution  
screen diagonal 5,7"



Main unit window with screen  
resolution 800x480 pix  
screen diagonal 6.4 "or 8.0"

- 2. Changing the screen resolution from the "Setup" level:**

in the main window, select DAB, *Setup* -> *Adjustment to the Car* -> *Change resolution* Fig. 3 and then confirm that you want change the resolution Fig. 4

**Note:** A special case is the situation when the JRDAB-04 module has a resolution of 800x480 and was installed in a car with a screen resolution of 400x240, 5.7 ". In such a situation, touch and hold for 4 seconds the space in the upper left corner of the screen Fig. 5. to call up the resolution selection window. It does not apply to the appearance of Seat.

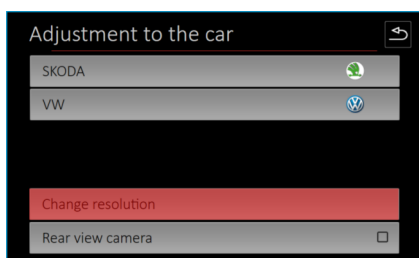


Fig.3

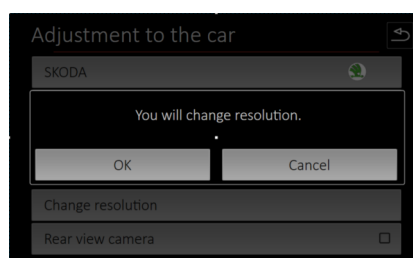


Fig.4

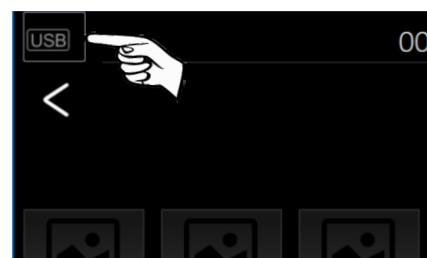


Fig.5

- 3. Rear view camera „Setup”:**

mark "Rear view camera" on the bar, according to the vehicle equipment Fig. 3.  
If the vehicle is equipped with a reversing camera, mark it as enabled.

**Note:** Incorrect selection may result in incorrect system operation parking.

- 4. Choice of window design for the car „Setup”:**

mark "SKODA, VW or SEAT" on the bar according to the vehicle make Fig. 3.  
*The choice of the appearance of the views does not affect the operation of the system.*

## 9. Basic technical parameters

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|   |                             |
|---|-----------------------------|
| 1. Supply voltage                           | - 12V                       |
| 2. Active power consumption with antenna    | - 321mA                     |
| 3. Active power consumption without antenna | - 281mA                     |
| 4. Standby current                          | - 0,039mA                   |
| 5. Antenna Power (Phantom System)           | - 8,2V or 12V (max 150mA)   |
| 5. Communication and control                | - CAN                       |
| 6. Housing                                  | - Metal                     |
| 7. Dimensions                               | - 107,2mm x 92,6mm x 25,2mm |
| 8. Weight                                   | - 280g                      |

## 10. Elements set

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