

Model: JRDAB-02 CAN dla CONCERT/SYMPHONY



# **INSTALLATION MANUAL**



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# 1. INTRODUCTION

Digital radio tuner DAB/DAB+ for factory car radio AUDI CONCERT. The JRDAB-02 module allow to receive and play digital radio stations DAB/DAB+ on factory multimedia system using the AMI platform. The device has the function of tracking the selected station while driving (SERVICE FOLLOWING). It fully integrates with the CAN bus system.

#### Important:

If the car is equipped with a factory-made AMI module and we want to keep it functionality and at the same time connect additional devices (JRDAB-02 or JAUX\_BT-02), use the CAN-JSW-02 switch available in our offer.

## 2. RECOMMENDATIONS

### 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.



# 2.1 RECOMMENDATIONS

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

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

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# 3. CONNECTION SCHEDULE OF SET COMPONENTS

Correct placement of JRDAB-02 components:

- 1. JRDAB-02 module connection place
- 2. Factory radio system
- 3. DAB/DAB+ antenna installation place







### 4. Antenna connection

The JRDAB-02 assembly kit includes an active antenna that must be mounted according to the instructions described below. The JRDAB-02 module is adapted to be connected with active antenna which supports the "Phantom" power system - 12V, max 200mA. The JRDAB-02 module also allows to connect different antenna that will meet the matching conditions. This can be a factory-installed active antenna that is already installed in the car, or another active antenna dedicated for car radio systems DAB/DAB +. Connecting the antenna other than included in the kit requires special care and fulfillment of all parameters matching the JRDAB-02 system.

#### 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



Antenna DAB/DAB+



# 5. DAB/DAB+ MODULE CONNECTION DIAGRAM

- 1. Switch off the ignition and radio of the vehicle
- 2. Disconnect the factory ISO connection from the radio
- 3. Connect the W-RD102 ISO cable to the car radio 1
- 4. Connect factory ISO connector to bundle 2
- 5. Connect the W-RD102 to the JRDAB-02 module 60
- 6. Connect FAKRA plug to antenna socket 4
- 7. Turn on ignition and startup radio
- 8. Start a process of finding new stations.



#### **INFORMATION:**

If DAB/DAB+ option doesn't appear in the Source menu after connection of JRDAB-02 module then AMI platform must be activated via OBD connector (see item 4/p.4)



## 6. CODING

If Audi Music Interface [AMI] wasn't pre-installed in the car there might be a needs to activate function using VAG, VCDS or other diagnostic program.

Byte 11 > Bit 3 > 
$$X X X X X X X X X$$
.  
Set 1

Long coding in the CONCERT unit (56-Radio module).

Below is an example of how to encode with the VCDS program.

								10000 D. L		AT 100 PC (10)		
	VCDS Release 18.2.0	20822 Codes Loaded	VCDS Rideser 18.2.0. Select Centrel Module VCDSS Select Control Module					VCDS Release 18.2.0: 56-Radio, Open Controller (8TX-035-13X-56.CLB) Comm Status Latency-4 ms Protocol: CAN Open Controller				
Select Control Module	Auto-Scan	Service Reminder Interval Reset	Installed	Drivetrain Chassi	s Comfort/Conv. Electr	ronics 1 Electronics 2		Controller Info				
Select an Individual Control Module such as Engine, ABS, Airbag, etc.	An automatic scan of all controllers for Fault Codes.	Automatically reset the service light for oil and inspection.						VAG Number: 8	T1 035 186 C	Component: Com	cert3 H02 0210	
			01-Engine	02-Auto Tran	03-ABS Brakes	05-Acc/Start Auth.			Long Coding	Shop #: Imp:	259 WSC 00900	
Select	Auto-Scan	SRI Reset	08-Auto H	AC 09-Cent. Ele	ct. 10-Park/Steer Assis	t 15-Airbags		Extra:	81	0919603A Display		
								Extra:		Geraet 12345		
OBD-II Functions	Applications	Program Options	16-Steerin	wheel 17-Instrumer	19-CAN Gateway	20-High Beam Assist.		Basic Functions		Advanced Function		
Generic OBD2 Mode. Retrieve and clear faults and	Features consisting of several basic commands, like transport	Select Comm Port, Set Debug and Protocol Options, etc.	42-Door El	ect, Driver 46-Central C	anv. 47-Sound System	52-Door Elect, Pass.			are "Safe"		r to Service Manual !	
freeze frame, obtain live data.	mode.		63-Parking	Brake 55-Headlight	Range 56-Radio	62-Door, Rear Left		Fault Codes - 02	Readiness - 15	Coding II - 11	Coding - 07	
OBD-II	Applications	Options						Meas. Blocks - 08	Advanced ID - 1A	Basic Settings -	04 Adaptation - 10	
			69-Trailer	6D-Trunk Ele	ect. 72-Door, Rear Right	77-Telephone		Supp. Codes - 18	Adv. Meas. Values	Output Tests - 0	03 Security Access - 16	
			Direct Entry									
Abou	đ	Exit	Address Wo	d (01-FF): 56 Gol	Go Back				Close Contro	ller, Go Back - 06		
Incorrect Cor 0 - 811 035 10	Construction Co	oncert3 H02 0210 o change anything Aunctional Coding Helper Equipt # (0.99999); 12345	Connerstatus Protocol CoAl Connerstatus Protocol CoAl Connerstatus Co	Oper Bytes long  bytes long	code		Cor Lete 2010 Cortes Cortes Contraction	mm Status mod 4 ms BTL 055-05 (13 System) BTL 055-05 (13 System) BTL 055-05 (13 System) D4700 00001 (04 System) D4700 00001 (04 System) D4700 00001 (04 System) D4700 0001 (04 System) BTL 2500 (10 System) BTL 25	rd / [ESC] will close LCode 3 27 09 00 1	DS		
4. Option Long	0	<u></u>	5. We select	a Dyte TT	Ner (8TX-035-1XX-56.CLB)	2		yte 11, ma VCDS Release 18.2.0: 55-Ra Comm Status	idio, Open Controller (8TX-	035-130-56.CLB)		
Protocol: CAN _	Open Controller		Protocol: CAN	/	Open Controller			Protocol: CAN		Controller		
Controller Info			Controller Info					Controller Info				
VAG Number: 8T1 035 1	186 C Component: Co	oncert3 H02 0210	VAG Number:	8T1 035 186 C	Component: Conc					Component: Cond		
VCDS Release 18.2.0: 56-Radio, Recode		8	Soft. Coding:	Long Coding	CDS Imp: 2	259 WSC 00900			Long Coding	Shop #: Imp:	259 WSC 00900	
Please write down th	ne original values before attempting to	o change anything.	Extra:		splay			Extra:	81	0919603A Display		
	ding can make a Control Module non	i-functional	Extra:		Coding accepted 15			Extra:		Geraet 12345		
0 - 611 035 18	86 C Concert3 H02 0210	•	Basic Function		Functions			Basic Functions		Advanced Function	s	
	Current coding: 0000048204014500435B870100			These are "Safe"	OK	to Service Manual !		These a	ire "Safe"	Refer	r to Service Manual !	
		Confine History	Fault Cod	rs - 02 Readines	- 11	Coding - 07		Fault Codes - 02	Readiness - 15	Coding II - 11	Coding - 07	
	New coding: Long 0000048204014500435B870900	Coung helper	Meas. Blo	ks - 08 Advanced ID	- 1A Basic Settings - 0	04 Adaptation - 10		Meas. Blocks - 08	Advanced ID - 1A	Basic Settings -	04 Adaptation - 10	
WorkShop Code (0-99999): 00	0900 Importer # (0-999): 259	Equipt # (0-999999): 12345	Supp. Coo	es - 18 Adv. Meas. Va	Output Tests - 0	3 Security Access - 16		Supp. Codes - 18	Adv. Meas. Values	Output Tests - 0	3 Security Access - 16	
	Do It! Cancel			Close	e Controller, Go Back - 06				Close Contro	ller, Go Back - 06		
<ol><li>Confirm with</li></ol>	the Do It butto	on	8. We (	confirm the	correctly ma	de process	9	. We close	e the codir	na proces	S	
			0. 100		concoury ma	ao process	5			9 10063	0	

For the coding process to be fully effective, please disable the program Diagnostic (*Fig. 9. Close the coding process*), Switch off and then on again.



# 7. BASIC TECHNICAL PARAMETERS

- 1. Power supply voltage
- 2. Resting current
- 3. Power consumption with antenna
- 4. Power consumption without antenna
- 3. Communication and control
- 4. Housing
- 5. Dimensions
- 6. Weight

- 12V
- 0mA
- 154mA
- 110mA
- CAN
- Metal
- 78mm x 95mm x 27mm
- 210g

# 8. ELEMENTS OF THE SET

- 1. DAB/DAB+ radio module [JRDAB-02]
- 2. Connection cables [W-RD102]
- 3. Antenna [TLG7205]





W-RD102

