

Model: JRDAB-02 CAN for RNS-E



INSTALLATION MANUAL



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1. INTRODUCTION

Digital radio tuner DAB/DAB+ for factory car radio AUDI RNSE. 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.



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2.2 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

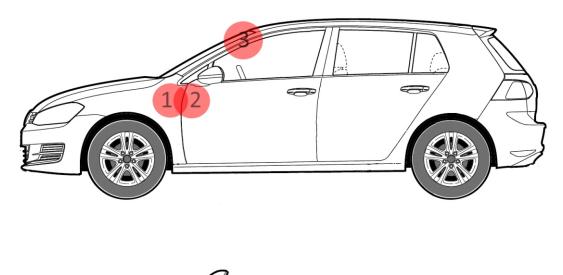
- E) Mechanical damage
- F) Flooding with water or other liquids

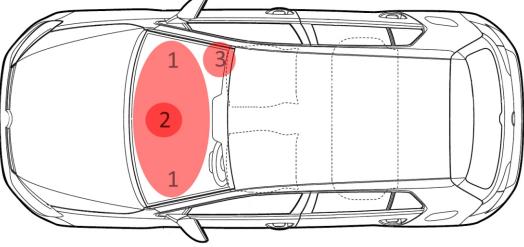
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3. CONNECTION SCHEDULE OF SET COMPONENTS

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

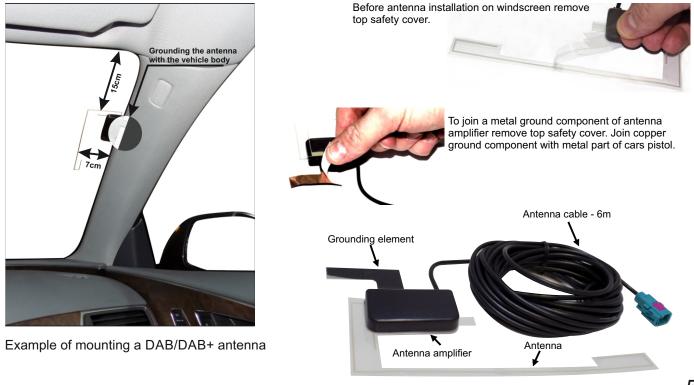
The JRDAB-02 assembly kit includes an active antenna that must be mounted according to the instructions described below. The JRDAB-02 module is adapted to be connected with active antenna which supports the "Phantom" power system - 12V, max 200mA. The JRDAB-02 module also allows to connect different 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



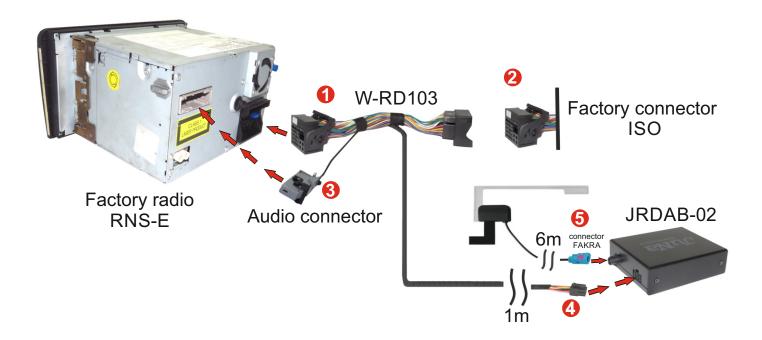
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Antenna DAB/DAB+

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5. DAB/DAB+ MODULE CONNECTION DIAGRAM

- 1. Turn off radio and ignition in vehicle
- 2.Disconnect factory ISO connector from radio
- 3.Connect the W-RD103 to factory radio
- 4.Connect factory ISO connector to bundle W-RD103 2
- 5.Plug a connector of W-RD103 to JRDAB-02 module 60
- 6.Connect the 32-pin audio connector to the vehicle's radio
- 7.Connect FAKRA plug to antenna socket 6
- 8. Turn on ignition and startup radio
- 9. 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. INSTALLATION 32 PIN HEADER FROM SET

Vehicle with RNS-E multimedia system can be equipped with TV tuner, rear camera, AUX, etc. devices which are connected by 32 pin AMP Connector. In this case to connect JRDAB-02 module it is necessary to disassemble factory 32 Pin AMP Connector and install wires form cable of W-RD103 bundle. In case when vehicle is not equipped with additional devices uses 32 Pin AMP Connector then it is necessary to use 32 Pin AMP Connector which is included in JRDAB-02 set and install wires form cable of W-RD103 bundle.

Important:: If RNS-E system is equipped with factory AUX unit it is necessary to disconnect AUX wires from 32 Pin Connector and replace them by wires form cable of W-RD103 bundle.

32 31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
16 15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
1 N.C. 2 N.C. 3 N.C. 4 N.C. 5 N.C. 6 AUX-IN rig 7 N.C. 8 N.C. 9 N.C. 10 N.C. 11 N.C. 12 N.C. 13 Audio-IN r 14 Navigatior 15 Video-IN r 16 Wideo-IN	navigati n systen navigati	on syst n scree on syst	em rig n mas em sy	ght ss /nchror	ization		17 N.C. 18 N.C. 19 Sign 20 Sign 21 AUX 22 AUX 23 N.C. 24 N.C. 25 N.C. 25 N.C. 26 N.C. 27 N.C. 28 Audi 29 Audi 30 Vide 31 Vide 32 Vide	al-IN lc al-IN lc -IN m -IN le o navig o-IN na o navig o-IN na	ow frequess [V ft [W-F gation s avigation gation s avigation	uency (V-RD10 RD103 system on syste system on syste	(+) (unu 33 - bla - white mass em lef mass em blu	used) ack] }] t		
		32pir 16pir				TV	/ ner		Aud	dio DAB-0	 1p	'pin iin		
	Ctore		An exar	nple of o	connecti	ng the	factory n			he JRD	AB-02 n	nodule		
Connect w connector.			ockets ir	ı black		Ρι	ut black o	Step 2 connecto		ay housi	ng.		nnect the gray 32	
COLUMN DE													1	

Both cases are connected according to diagram:

clamp to q.

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7. 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

VCDS: Main Screen			🖘 VCDS R
	VCDS	20822 Codes Loaded	
	Release 18.2.0		
Select Control Module	Auto-Scan	Service Reminder Interval Reset	Insta
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.	01-E
Select	Auto-Scan	SRI Reset	15-4
OBD-II Functions	Applications	Program Options	2E-1
Generic OBD2 Mode. Retrieve and clear faults and freeze frame, obtain live data.	Features consisting of several basic commands, like transport mode.	Select Comm Port, Set Debug and Protocol Options, etc.	46-0
OBD-II	Applications	Options	62-0
Abo	at	Exit	Direct

1.Select Control Mode.



4.We always add 1. Change is saved with the "Do it" button.

nstalled Drivetra	ain Chassis Con	nfort/Conv. Electron	ics 1 Electroni	
01-Engine	03-ABS Brakes	08-Auto HVAC	09-Cent. Elect.	
15-Airbags	16-Steering wheel	17-Instruments	19-CAN Gateway	
2E-Media Player 3	37-Navigation	42-Door Elect, Driver	44-Steering Assis	
46-Central Conv.	52-Door Elect, Pass.	56-Radio	61-Battery Regul.	
62-Door, Rear Left	72-Door, Rear Right			

VCDS

VCDS

Coding - 07

2.Option 56 Radio.

Protocol: CAN

Soft Coding

Extra:

Comm Status Latency=4 ms Protocol: CAN	\	-	CDS Controller		
Controller Info	8	20 035 193 G	Component:	RNS-E PU E	U H05 0210
Soft. Coding:		0205751	Shop #:	Imp: 046	WSC 50166
Extra:					
Extra:			Geraet 000	00	
Basic Function	These a	e "Safe"	Advanced	f Functions Refer to Serv	ice Manual!
Fault Codes - 02		Readiness - 15	Cor	ding II - 11	Coding - 07
Meas. Block	s - 08	Advanced ID - 1A	Basic	Settings - 04	Adaptation - 10
Supp. Code:	a - 18	Adv. Meas. Values	Outpu	ut Tests - 03	Security Access - 16
		Close Contr	oller, Go Back -	06	



Comm Status Latency=5 ms Protocol: CAN	ï	-	CDS n Controller					
Controller Info VAG Number:	8	P0 035 193 G	Component:	nt: RNS-E PU EU H05				
Soft. Coding:		0205761	Shop #:	Imp: 046	WSC 50166			
Extra: Extra:	Geraet 00000							
Basic Functions		ire "Safe"	Advance	d Functions Refer to Se	vice Manual!			
Fault Codes - 02 Meas. Blocks - 08 Supp. Codes - 18		Readiness - 15	Co	ding II - 11	Coding - 07			
		Advanced ID - 1A	Basic Settings - 04 Output Tests - 03		Adaptation - 10			
		Adv. Meas. Values			Security Access - 16			

BP0 035 193 G

0205761

6.We're leaving the coding process.

After the coding has been done, the radio should be reset.

We can achieve this, e.g. by:

- Momentary disconnection and connection of the radio power supply.
- Holding the RADIO + SETUP buttons (for about 10 seconds) until the radio is reset.

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^{5.}We confirm changes.

8. 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

9. ELEMENTS OF THE SET

- 1. DAB/DAB+ radio module [JRDAB-02]
- 2. Connection cables [W-RD103]
- 3. Antenna [TLG7205]

