



JAGCD-HF

QUICK START BLUETOOTH INSTALLATION GUIDE FOR SELECT JAGUAR XK (X100) AND XJ (X308) WITH CD CHANGER

Works in 1998-03 XJ (X308) and 1997-06 XK (X100)

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PRODUCT SAFETY & DISCLAIMER

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLING, FAILURE TO DO SO MAY CAUSE PERSONAL INJURY OR DAMAGE TO PRODUCT AND/OR PROPERTY

- This installation guide is provided as a GENERAL installation guide, some vehicles vary and may require additional steps. We do not accept responsibility for third party labor charges or modifications. Exercise due-diligence when installing this product.
- We do not accept any responsibility for vehicle damage or personal injury resulting from the installation of this product.
- Careless installation and operation can result in equipment damage.

Requirements:

6 CD AUTO CHANGER

Introduction

Safety comes first when you're on the road, so having an intuitive and easy to use Bluetooth kit is essential to reducing driver distraction. The JAGCD-HF Bluetooth receiver is compatible with virtually all smartphones, and sounds great for mobile conversations, streaming music applications and more. In addition, the JAGCD-HF **requires and retains factory installed CD changer** and includes a USB charging port. The audio adapter connects to the changer plug in trunk/boot and module installs beneath center console glove box (armrest).

See **Frequent Asked Questions, troubleshooting and feature comparison** at the end of this guide.

Installation – audio module

1. Open trunk and remove carpet trim piece surrounding audio rack
2. Remove (4) 8mm nuts securing rack to vehicle.
3. Locate single thick black cable on holding tab (This cable **connects CD changer to amplifier in premium systems or to radio in standard systems**) (See Fig. 1)



Fig. 1

4. Remove cable from holding tab
5. Disconnect factory plug from CD changer pigtail (**do not twist**)
6. Once cables are disconnected (See Fig. 2) CD changer female connector (right), factory amplifier/radio plug (left)



Fig. 2

7. Connect audio module right angle plug (See Fig. 3) to CD changer connector in Fig. 2

Warning: Our right-angle plug (See Fig. 3) does not have alignment marking. Mate to CD changer connector by placing "imaginary" alignment mark Fig. 3 opposite alignment marking on CD changer connector in Fig. 2



Fig. 3

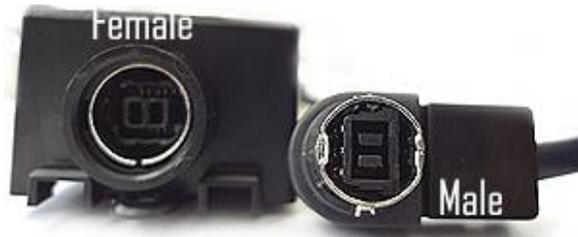
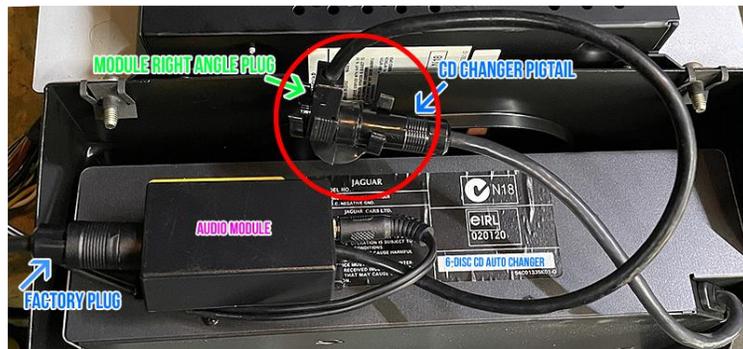


Fig. 3a

8. Mate the two remaining cables by aligning mark on factory male plug (See Fig. 2) with mark on module female connector (See Fig. 3a) **AVOID TWISTING.**
9. Route module 6-pin connector (See Fig. 4), to center console area.



Routing audio cable

These steps apply to the sedans. Convertibles (XK), due to hydraulic components may require additional steps not part of this guide.

1. Use a pry tool to open gap between window pillar and rear deck as seen in Fig. 5. From inside trunk fish audio plug (See Fig. 4) through and into the cabin. (See Fig. 6)



Fig. 4
12 ft. audio cable



Fig. 5



Fig. 6

2. Pull excess cable and begin tucking under backrest and seat cushion as you work towards the rear of the center glove box (armrest) as seen in Fig. 7, Fig. 8 and Fig. 9



Fig. 7



Fig. 8



Fig. 9

3. Continue to use pry tool or fingers to fish wire under center glove box to storage bin.
4. **To remove storage bin:** Open the center glove box and remove 2 Philips head screws from latch cover and two more from hinge then remove the single screw on retainer bracket.
5. Lift to remove storage bin and set aside.
6. Locate audio plug fed through in step 3 and **gently pull excess cable.**

Note: The aforementioned steps apply to sedan models. X100 (convertibles) requires additional steps not part of this guide.

Bluetooth module installation

We recommend installing Bluetooth module in center armrest (See Fig. 10). In this area you will also find factory phone plug (See Fig. 11/11b) and cigar lighter, either of which is able to provide 12V accessory/ground to power module (see Fig. 10).



Fig. 10

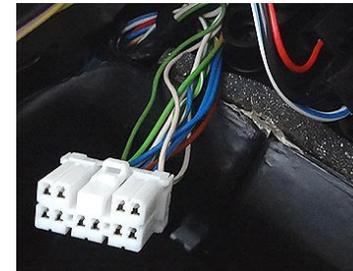


Fig. 11

10-pin female phone plug

Connect module red wire to 12V Accessory supply **never to 12V constant (Battery)**, and **Black wire** to ground.

Connector gender/color	Accessory wire/color	Ground wire
10-pin Female/white	Pin 10 (light green)	Pin 6 (black)
10-pin Male/yellow	Pin 10 (white/green)	Pin 6 (black)
14-pin/yellow	Pin 13 (Green)	Pin 11n (black)
18-pin male /yellow	Pin 5 (Green)	Pin 11 (black)

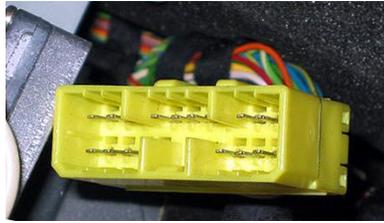


Fig. 11b
14-pin male phone plug

1. If vehicle does not have a phone plug, use cigar lighter power supply wires to power module:
White/Blue is Accessory and **Black** is ground



Fig. 12

Warning: Powering module with cigar lighter supply wires may introduce noise into the system especially if cigar socket is used with charging adapters. In such instance we recommend an alternate source. If engine noise is still an issue, consider adding a [noise filter](#).

2. Connect 6-pin splitter plug (See **Fig. 13**) to 6-pin audio cable in **Fig. 4**



Fig. 13
splitter

3. Connect splitter straight plug (See **Fig. 13**) to "CD" jack on module (See **Fig. 14**)



Fig. 14
Module

4. Connect splitter right angle plug (See **Fig. 13**) to jack on module pigtail (See **Fig. 15**)

Warning: Connecting splitter (**Fig. 13**) plugs in reverse order will result in low, distorted or no playback.



Fig. 15

5. Connect push-button/microphone (See Fig. 16) to module "MIC" input jack (See Fig. 14)



Fig. 16

6. Consider where to install push button/microphone. Microphone (button) must be facing driver for voice commands and phone dialog (cable is 6ft. long). **We recommend completing the remainder of the install prior to securing button.** Once settled on location, remove tape backing (See Fig. 17) and adhere to dash (See Fig. 18)



Fig. 17

Push button/microphone



Fig. 18

mic/button secured on dashboard

Ensure no ventilation duct is pointed towards the mic.

Charging port with optional USB cable

Module USB charging port (See Fig. 21) provides approximately 1.8A. Newer power-hungry devices (e.g., iPhone 8+ and others) may not charge. We recommend purchasing optional [USB-DM3](#) Fast charging kit to charge those power-hungry devices.



Optional charging kit can be added to support BC1.2, QC2.0, QC3.0, PE1.1, PE2.0, FCP, SFCP fast charge protocols (Samsung, Huawei etc.).

Features:

- » Input voltage: **6-24V DC**
- » Working current: **30mA**
- » Default output voltage: **5V or 3V-12V** (device dependent)
- » Max output power: **24W**

Should you decide to add it, we suggest one of 3 connecting options:

- Flush to dash/panel requires drilling a 3/4" hole**
- Flush with Support bracket** (Mount USB terminal wherever your installation demands *without drilling*)
- USB port-** (freestanding- default)

A. Flush Mount to Dash or Panel (drilling required)

1. Drill a 3/4" hole in dash or panel using a step drill bit or equivalent (See Fig. 19)



Fig. 19
Step drill

2. Insert included **3.2ft. (1 Meter)** male terminal (See Fig. 20) through 3/4" hole created in step 1
3. Connect male terminal to module USB port (See Fig. 21)



Fig. 20
Flush mount USB cable



Fig. 21
Module USB port

4. Snap USB head (See Fig. 22) to mounting surface until flush (See Fig. 23)



Fig. 22
Flush mount USB Terminal



Fig. 23
Flush mounted to dash

Note: Many have reported a flush install to storage compartment back wall.

B. Flush mount with Support Bracket (No drilling)

1. Locate a flat surface at location of choice within **3.2 ft.** (1 meter) of module and mount USB support bracket (See **Fig. 24**) to surface using adhesive/tape or screws.



Fig. 24
USB mounting bracket

2. Insert USB terminal through hole in bracket (See **Fig. 25**)
3. Connect to USB port on module (See **Fig. 21**)



Fig. 25

4. Snap USB header to bracket until flush (See **Fig. 26**)



Fig. 26

5. Connect **BLACK** wire to ground and **RED** or **YELLOW** to accessory or battery supply. Your choice!
Accessory connection: charging is possible with ignition/engine "ON".
Battery connection: charging is possible at all times.
If additional wiring required, please tuck and secure any extra wire away from moving parts and test operation.
Tuck away any extra wires and verify **BLUE** LED is lit.

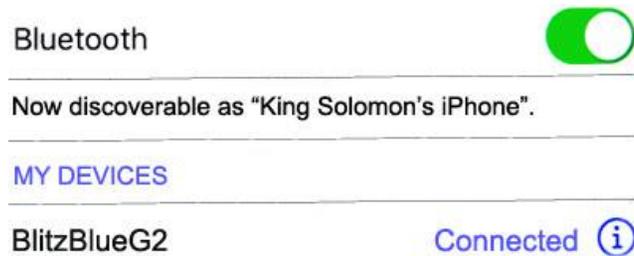
C. No USB Mount (default)

USB port is for **charging only**. **Connect your own** USB2.0 extension cable or proceed to next step if charging not required.

Pairing and connection

This step is required on initial install. After which your device will automatically connect upon entering vehicle.

1. Turn vehicle ignition to "ON".
2. Red LED inside module will begin to flash
3. Access Smartphone Bluetooth menu settings, and search (scan) for devices.
4. Select name (See below) then tap "Connect" or "Pair"



Notes: Caller ID, text display etc. is not possible on factory radio. Operate Bluetooth device with push-to-talk button or Voice recognition (VR) application. Use radio volume button to control playback level. If is possible to pair up to 4 devices but able to connect with one at a time.

Operation

1. Turn ignition to ACC position and radio to ON.
2. Press "CD" button on radio. Track or Disc number displayed if magazine has at least one disc; otherwise "NO MAGAZINE" is displayed (See Fig. 27)



Fig. 27

Radio must be in "CD Mode" when using the JAGCD-HF.
CD changer remains connected and operational.

3. Use radio volume button to adjust playback level and push button commands as per tables seen below.

Music commands (executed with push-button)

Push button music commands:

To	Proceed this way
Pause song	Press and release button
Resume play	Press and release button
Skip to next song	Press button twice
Skip to previous song	Press button three times
Activate CD changer mode*	Press button four times
Activate Voice control	Press/hold button for 2 seconds
Switch from Aux to music streaming	Press and release button

Phone Commands

From control button the following phone commands are possible.

To	Proceed this way
Answer call	Press and release button
End call	Press and release button
Reject incoming call	Press button twice (call goes to VM)
Cancel outgoing call	Press button twice
Activate Voice Control	Press/hold button for 2 seconds

Notes:

1. If playback is distorted or low, adjust volume from smartphone.
2. **To reset Module press and Hold button for 5 seconds** (this does not un-pair or erase devices stored in memory)
3. Bluetooth range is approximately 30 ft. make sure device is within range of receiver
4. Voice command compatible with Apple (Siri), Android (Google Now), Blackberry (Assistant)
5. *Push button commands not applicable to CD change or radio operation. Use changer controls buttons on radio as customary.
6. Streaming resumes automatically upon ending call, however; to **resume CD changer playback control button must be pressed 4 times**

If successful reverse removal steps and secure push button/microphone to dash as per step #6 in "installing Bluetooth module" instructions.

Congratulations, you've just updated your vehicle to support new technology while preserving the original radio and dash components.
Enjoy!

CD operation

The JAGCD-HF and A2DIY-JAG98 unlike our JAG-HF and BT45-JAG retains CD changer functionality. To operate the CD auto changer; press "CD" button on radio, then **press push button 4 times**. To exit CD changer mode press and release push button (streaming is resumed)
Use radio buttons to control changer as customary.

TIP: If at some point the need should arise to connect an audio device (e.g., satellite radio, MP3 player et), simply disconnect 3.5mm audio plug from module "CD" input jack and in its place connect audio device. **CD changer remains connected but will not play.**

Feature Comparison:

Feature	JAG-HF	JAGCD-HF	BT45-JAG	A2DIY-JAG98	A2DIY-JAG98R
CD changer retention	X	✓	X	✓	✓
Audio input (aux)	✓	✓*	X	Optional	Optional
Charging (USB)	✓	✓	X	Optional	Optional
Mutes (all radio modes)	X	X	✓	X	X
Visor microphone	X	X	✓	✓	✓
Requires CD changer	✓	✓	✓	✓	✓
Voice Recognition	✓	✓	✓	X**	X**
Requires phone plug	X	X	✓	X	X
Plug-n-play installation	X	X	✓	X	X
Remote control	²	²	✓	✓	✓
Module installation to:	Armrest	Armrest	Armrest	Armrest	behind radio

*Aux input instead of CD changer

** activate VR on audio device as customary

² optional [remote](#)

Frequent ask questions & Troubleshooting

1. **I'm having trouble pairing second phone. What is the process?**

In order to pair a second phone you must disconnect paired phone. Once module is free, it will be ready for pairing.

2. **Where do I connect the audio adapter?**

Connect module between CD changer short pigtail and amplifier/radio plug in trunk or hatch. CD changer connector is located behind audio rack.



3. **In which model/year Jaguars will the JAGCD-HF work and where does the audio module connect?**

1998-99 x308 (To changer/trunk)

2000-03 X308 (To changer/trunk)

late 1997-99 x100 (To changer/trunk)

2000-06 X100 (To changer/trunk)

4. **Will the stereo mute when I receive or make a phone call?**

System will not mute unless radio is in "CD" mode (Bluetooth mode). If in radio (AM/FM) Mode and a call comes in, the audio system will not mute and in order to hear caller; radio must be switched "CD" (Bluetooth Mode)

5. **Will I be able to stream and Navigate at the same time?**

YES! When streaming and navigating; streaming will mute during navigation guidance and return to previous state when guidance ends. If during this time a call is made or received, both Navigation guidance and streaming will mute and resumes when call has ended.

6. **After installing and testing the system everything works, but there is engine "whine". (Increases with RPM) What can I do to fix this?**

Check ground wire and make sure all connections are snug.

If powering module with cigar lighter: remove device plugged into cigar port.

Relocate ground wire,

Install a suitable [noise filter](#).

7. **Which devices can be charged on the USB charging port?**

The USB charging is compatible with most devices requiring 1.8A or less.

Many of the newer Apple IOS device (iPhone 7 and up) may not charge as these may require more charging current. Purchase optional [USB-DM3](#) Fast charging kit if looking for a smart and reliable charging option for these power-hungry devices.

8. **Despite phone and radio volume set to max, audio playback is very low. What must I do?**

Please refer to audio splitter in Fig. 13 and ensure right angle plug is connected to module pigtail jack.

Notes:

- Muting not possible in AM/FM mode. Muting possible in "CD" (Bluetooth) mode.
- Auto CD changer required, **remains connected and functional**.

Disclaimer

- This product has no affiliation with Jaguar or Apple
- We're not liable for misuse of this product.

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