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JAGCD-HF

Bluetooth Installation Guide for select Jaguar xJ & xK with CD Changer

Works in 1998-03 x308 and 1998-06 x100

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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 kit is compatible with virtually all Bluetooth phones, and sounds great whether you are using it for mobile conversations or streaming music. In addition, the JAGCD-HF **retains use of the CD Changer** and includes a USB Charging port to keep your devices fully charged. The audio adapter connects at the Changer in the trunk and Bluetooth module installs beneath center console glove box (armrest).

See **Frequent Asked questions and Feature Comparison** at the end of this guide

Notes:

- When calling or receiving call, this kit will not mute in AM/FM Mode. Muting calls is only possible in "CD" mode (Bluetooth Mode).
- Must use the mic/control button included with kit (factory microphone does not apply)
- CD Changer is required and **remains fully functional**.

Audio Adapter Installation:

1. Remove carpet trim piece surrounding audio rack
2. Remove (4) 8mm nuts securing rack to the vehicle.
3. Lean rack forward to reveal wiring and connections on the back
4. Locate thick cable **connecting CD Changer to Amplifier**. (See **Fig. 1**)



Fig. 1

5. Remove cable from holding tab and disconnect by gasping both terminals and gently pulling apart (**do not twist**)
6. CD Changer female terminal (right) and Amplifier Male Plug (left) as seen in **Fig. 2**



Fig. 2

7. Align arrow on plug with arrow on Audio box and push together (don't twist) (See **Fig. 3**)



Fig. 3

Audio Female (left) & male (right) connections

8. Connect male plug from Audio box (See **Fig. 3**) to CD Changer connector.
9. Route the 6-pin audio cable plug to center console area.

Routing Audio cable

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



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 into 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 or Convertible modes will require additional steps not part of this guide.

Installing Module

In our t 2001 XJR Premium Audio test vehicle, Bluetooth Module was secured to sidewall inside center armrest and is suitable in all vehicles. In this area you will find the factory phone plug (See **Fig. 11**) and cigar lighter, either of which can be used to power Bluetooth Module (see **Fig. 10**).



Fig. 10

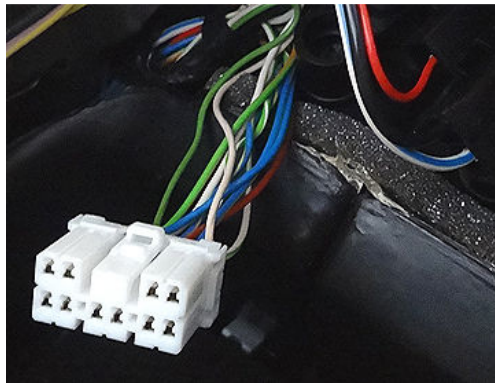


Fig. 11

- Tap **Red wire** to 12V Accessory Supply (**Do not connect to constant battery supply**) and **Black wire** to ground.
1. **x308 with 10-pin plug** (See **Fig. 11**):
Tap **Red wire** to pin 10 (white/green) and **Black wire** to pin 6 (black)
 2. **x100 with 14 or 18-way AMP plug** (See **Fig. 11b**):
Tap **Red wire** to pin 5 (**Green**) and **Black wire** to pin 11 (Black)

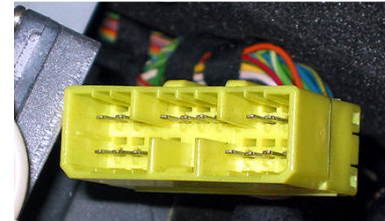


Fig. 11b

3. If there is no phone plug, use the cigar lighter under console:
Tap Red wire to White/Blue= 12V ACC
Tap Black wire to Black=Ground



Fig. 12

Note: The cigar lighter supply may introduce noise into the system. This is not the fault of our module but electrical system in your car. Find a clean power/ground supply (we recommend factory phone plug or elsewhere) or if install a noise filter.

4. Connect 6-pin Audio splitter (See **Fig. 13**) to 6-pin audio cable from step 1(**audio cable**)



Fig. 13
Audio Splitter

5. Connect short 3.5mm plug on audio splitter (See **Fig. 13**) to pigtail Audio jack from module (See **Fig. 14**)



Fig. 14
Audio Jack

6. Connect longer 3.5mm plug from audio splitter (See **Fig. 13**) to (CD) input jack on Module (See **Fig. 15**)



Fig. 15
Module

7. Connect control/mic plug (See **Fig. 16**) to blue input jack on Module (See **Fig. 15**)



Fig. 16
Control button/Microphone

8. Consider where to install control/mic button. Keep in mind the control button must be facing forward and within drivers reach for voice commands and phone dialog (cable is 6ft. long). **We recommend completing the remainder of the install prior to securing control/mic button to dash.** To install simply remove tape backing (See **Fig. 17**) and stick to dash (See **Fig. 18**)

See Optional Microphone/control button installation kit at the end of this guide.



Fig. 17

Control/Mic button

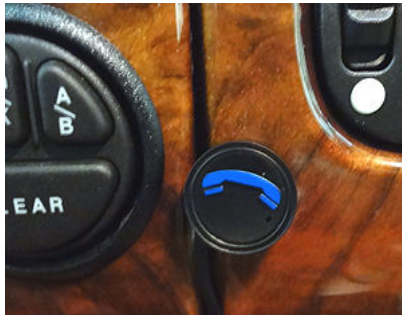


Fig. 18

Control button/mic on dash

Make sure no ventilation duct is pointed towards the mic.

It is best to mount button facing driver

The USB port is for charging only. Should you decide to use it, we suggest one of 3 install options:

- A. Flush to dash/panel (requires drilling a $\frac{3}{4}$ " hole)**
- B. Flush Mount with Support bracket** (use this option to mount USB wherever your installation demands without drilling)
- C. No USB Mount-** (default)

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

1. Drill a $\frac{3}{4}$ " hole in dash or panel using a step drill bit or equivalent (See Fig. 19)



Fig. 19

Step drill bit

2. Insert **3.2ft.** (1 Meter) USB male terminal (See Fig. 20) through the $\frac{3}{4}$ " hole created in step 1 and connect to USB port on Module (See Fig. 21)



Fig. 20

Flush mount 3.2 ft. USB cable



Fig. 21

Module USB port

3. Push USB head (See **Fig. 22**) until it snaps in place and flush with mounting surface (See **Fig. 23**)



Fig. 22
Flush mount USB Terminal



Fig. 23
Flush mounted to dash

4. Tuck and secure any extra wire from moving parts
Note: Many have reported a flush install to the back wall of the storage compartment.

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 male terminal through hole in bracket (See **Fig. 25**) and connect to USB port on Module (See **Fig. 21**)



Fig. 25

3. Push USB head until it snaps in place and flush (See **Fig. 26**)



Fig. 26

4. Tuck and secure any extra wire away from moving

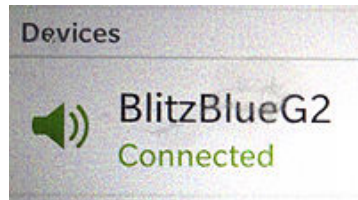
C. No USB Mount (default)

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

Bluetooth Pairing and Connection

This process is required the first time you use the JAGCD-HF. After initial pairing, the JAGCD-HF will automatically reconnect with paired phone upon entering the vehicle.

1. Turn vehicle ignition to “ON”.
2. Red LED inside module will begin to flash
3. On incoming/outgoing calls, ring tone plays on car speakers
4. Access your Smartphone Bluetooth menu settings, and search (scan) for devices.
5. Select the G2 and tap “Connect”



Note: Pairs up to 4 phones but connects to one phone at a time.

Warning! Caller ID and text display are not possible on factory Radio. Operate Bluetooth device by pressing the blue control button and your Voice Recognition application. Use the radio volume button to control playback level.

Bluetooth Operation

1. Turn ignition to accessory position and radio ON.
2. Press “CD” button on radio. Track or Disc number are displayed only if they are disc in Changer 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 fully functional.**

3. Use Radio button to Adjust Volume

Music Commands

To	Proceed this way
Pause a 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 Streaming Audio	Press and release button

Phone Commands

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 on phone.
2. **To reset Module press and Hold button for 5 seconds** (this will not un-pair phone or erase stored phones)
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. *Audio controls not applicable in Changer mode. Use the CD Changer buttons on radio for music selection and controls.
6. Upon ending call, audio streaming resumes playback, however to resume CD Changer control button must be pressed 4 times

If successful proceed to reverse the removal steps for Amp rack and center glovebox console and secure the control 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 Changer Operation

The JAGCD-HF unlike our JAG-HF and BT45-JAG retains CD Changer functionality. To operate the CD Changer, simply press “CD” button on radio (if not already in that mode), press control button 4 times. To exit CD Changer mode press control button once. (Returns to streaming audio)

Use radio CD Changer control buttons to select tracks as customary.

If at some point you decide to not connect CD Changer audio to module, you can instead connect any audio device to “CD” input—in other words you can use the “CD” input to play an iPod, Mp3 Player, Satellite Radio and etc. instead of CD Changer—your choice!

Feature Comparison:

Feature	JAG-HF	JAGCD-HF	BT45-JAG
CD Changer Retention	×	✓	×
Audio input (aux)	✓	✓*	×
Charging	✓	✓	×
Mute Feature	×	×	✓
Separate Microphone	×	×	✓
Requires CD Changer	✓	✓	✓
Voice Activation	✓	✓	✓
Requires factory phone Plug	×	×	✓
Plug-n-play installation	×	×	✓

*Aux input instead of CD Changer

Optional remote microphone Kit

The control button has a built-in microphone which means mounting the control button on the dash may allow for control but may not be optimum for issuing commands or hands-free talk. Many customers have asked if it's possible to use a remote microphone or one that mounts on the visor etc.

The optional **G2-HF** (See Fig. 28) Kit includes:

1. Microphone with visor clip on 10ft cable
2. Plug-n-play install harness



Fig. 28

To install:

1. Connect 4-pin 3.5mm plug to mic input on module
2. Connect 4-pin 3.5mm plug from control button to the jack labelled "control button"
3. Connect 2-pin 3.5mm plug from microphone to Mic input jack with lip (indicated by arrow)
4. Route microphone to visor or location of choice and use clip to secure to vehicle.

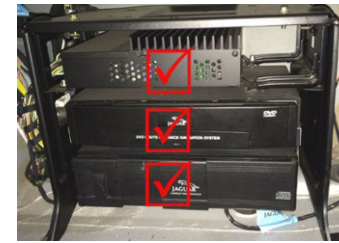
Frequent asked questions

1. **I'm having trouble pairing another phone. What do I do?**

In order to pair with a second phone make sure no other phone is connected. Once the device is free, it is ready for pairing.

2. **Why is audio system so important when it comes to installing your audio adapters?**

It's important because of the many components that make up the premium audio system. **2000-Up Premium Sound Systems** have an amplifier mounted atop the audio rack (See picture below) and subwoofer on rear deck (Sedan) or rear side panel (convertible)



The audio adapter included in your kit must be connected to Changer in trunk/booth (Radio removal not required).

3. **Can the JAGCD-HF be installed without removing the radio?**

YES; the JAGCD-HF can be installed without removing the radio in both Premium and Standard Systems.

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

1998-99 x308 **Premium System (To Changer/Trunk)**

1998-03 x308 **Standard Sound System (To Changer/Trunk)**

2000-03 x308 **Premium Sound System (To Changer/Trunk)**

1997-99 x100 **Premium Sound System (To Changer/Trunk)**

1997-06 x100 Standard Sound System (To Changer/Trunk)

2000-06 x100 Premium Sound System (To Changer/Trunk)

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

This system will not mute unless radio is in “CD” mode (Bluetooth mode). If you are in Radio (AM/FM) Mode and a call comes in, the audio system will not mute. In addition you must switch from radio to “CD” (Bluetooth Mode).

6. **Will I be able to use both music and Navigation apps at the same time?**

YES! When streaming audio and Navigation apps; music will mute during navigation guidance and return to previous state when guidance ends. If a call is made or received, both Navigation guidance and audio streaming are muted until the call has ended.

7. **After installing and testing the system everything works, but there is Engine “whine”. What can I do to fix this?**

8. **Check the grounds and make sure all connections are snug.**

If powering module with cigarette lighter.

Removing device plugged into cigarette port.

Relocate ground wire,

Install a suitable noise filter.

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

Any device requiring 5V Charging Voltage.

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