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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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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 or streaming music. In addition, the JAGCD-HF **requires and retains factory installed CD changer** and also includes a USB port to changer devices. The included audio adapter connects at the changer in trunk/boot and module installs beneath center console glove box (armrest). See **Frequent Asked questions and Feature Comparison** at the end of this guide.

Audio module Installation:

1. Remove carpet trim piece surrounding audio rack
2. Remove (4) 8mm nuts securing rack to vehicle.
3. wiring and connections are behind the units
4. Locate CD changer single thick black cable (**connects changer to Amplifier in premium systems or radio in standard systems**) (See Fig. 1)

Noteworthy: There are a few cables with similar size/color in this area. The single thick black cable from changer chassis is the correct one



Fig. 1

5. Remove cable from holding tab and disconnect them by gasping both plugs and gently pulling apart (**do not twist**)

6. Once disconnected; CD changer female connector (right), amplifier/radio plug (left) see Fig. 2



Fig. 2

7. Mate CD changer connector to audio module right angle male plug. Note: Module right-angle plug (See Fig. 3) does not have an alignment arrow indicator; however the imaginary arrow (See Fig. 3) must be opposite arrow on factory changer connector. Once aligned mate both (**do not twist**).



Fig. 3



Fig. 3a

8. Connect factory male (See Fig. 2) audio module female (See Fig. 3a)
9. Route 6-pin plug (See Fig. 4) on audio cable to center console area.

Routing Audio cable (sedan)

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.

Installing Bluetooth Module

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



Fig. 10

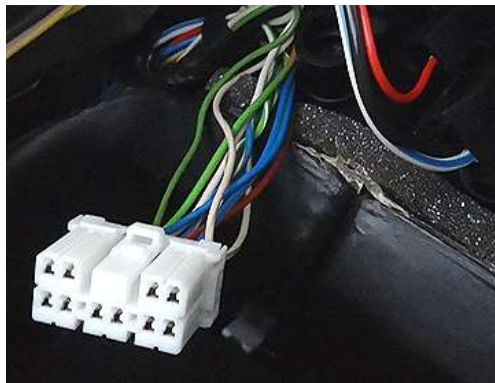


Fig. 11

Factory connector/Plug	Accessory wire	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

1. If vehicle has no phone plug, use cigar lighter under console:
Tap module's **Red wire** to White/Blue= 12V ACC and **Black** wire to Black=Ground



Fig. 12

Note: Cigar lighter supplies may introduce noise into the system. This is not the result of a faulty module but your vehicles electrical system. Find a clean power/ground supply (we recommend factory phone plug). If engine noise is still an issue, consider adding a [noise filter](#).

Bluetooth Module **Red wire** requires 12V Accessory supply (**Do not connect to constant battery supply**) and **Black wire** must be grounded.

2. Connect 6-pin audio splitter plug (See **Fig. 13**) to audio cable 6-pin connector (routed from trunk/hatch)



Fig. 13
Audio splitter

3. Connect audio splitter straight 3.5mm plug (See **Fig. 13**) to Module input jack labeled (CD) (See **Fig. 14**)



Fig. 14
Audio Jack in center

4. Connect audio splitter right angle 3.5mm plug (See **Fig. 13**) to module pigtail jack (See **Fig. 15**)

Note: Older version of the audio splitter may have these functions reversed. If there is no audio playback or if audio is low/distorted it's likely because these are reversed and the right-angle plug must be connected to the "CD input instead of pigtail jack.



Fig. 15
pigtail jack

5. Connect microphone/push-button (See **Fig. 16**) to Module mic input jack (See **Fig. 14**)



Fig. 16
Control button/Microphone

6. Consider where to install control button/mic. The microphone is built-in and must be facing forward for voice commands and phone dialog (cable is 6ft. long). **We recommend completing the remainder of the install prior to securing the button.** Once settled on location, remove tape backing (See **Fig. 17**) and stick to dash (See **Fig. 18**) **or purchase our [G2-HF](#) visor kit which allows microphone to be mounted separately. 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

USB CHARGING PORT

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

- A. Flush to dash/panel (requires drilling a 3/4" hole)**
- B. Flush Mount with Support bracket** (use this option to mount USB wherever

your installation demands without drilling)
C. Use your own cable- (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 bit

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



Fig. 20
Flush mount USB cable



Fig. 21
Module USB port

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



Fig. 26

4. Tuck and secure any extra wire away from moving

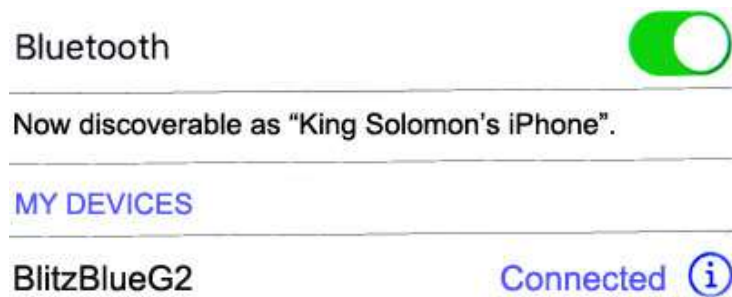
C. No USB Mount (default)

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 on initial install. After initial pairing, the Bluetooth receiver will automatically connect 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 control button or Voice Recognition application. Use radio volume control button to control playback level.

Bluetooth Operation

1. Turn ignition to ACC position and radio to ON.
2. Press "CD" button on radio. Track or Disc number are displayed only if they are disc in Changer magazine 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

Music Commands

The following music command are possible from the control button

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 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 to factory changer. Use changer controls buttons on radio as customary.
6. Upon ending call, music streaming is resumed, however to resume CD changer playback control button must be pressed 4 times

If successful reverse the removal steps and secure 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 and A2DIY-JAG98 unlike our JAG-HF and BT45-JAG retains CD changer functionality. To operate, press "CD" button on radio, then press control button 4 times. To exit CD changer mode press control button once. (Returns to music streaming)

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) to the system, you may disconnect 3.5mm plug from module "CD" jack and connect audio device in its place. CD changer will no longer play.

Feature Comparison:

Feature	JAG-HF	JAGCD-HF	BT45-JAG	A2DIY-JAG98
CD changer retention	X	✓	X	✓
Audio input (aux)	✓	✓*	X	✓
Charging (USB)	✓	✓	X	Optional
Built-in mute feature	X	X	✓	X
Separate microphone	X**	X**	✓	✓
Requires CD changer	✓	✓	✓	✓
Voice Activation	✓	✓	✓	X
Requires factory phone plug	X	X	✓	X
Plug-n-play installation	X	X	✓	X
Wireless remote control	X	X	X	✓

*Aux input instead of CD changer

** with optional [G2-HF](#) kit

Optional visor microphone Kit

The default button has a built-in microphone (See Fig. 28)



Fig. 28

Which means mounting the button in certain areas may be great for controls, but may not so great for issuing voice commands or holding Bluetooth conversations. The optional [G2-HF](#) kit allows for a more conventional microphone install to visor etc. (See Fig. 29)

Package contents:

Microphone with visor clip on 10ft. cable x 1

Control button (green) x 1

Slitter harness x 1



Fig. 29



Fig. 30

Installation:

1. Use clip to secure microphone to visor or location of choice and route cable behind the dash.
2. Connect microphone right angle 2-pin plug to "Mic input" jack on splitter harness (note lip on mic input jack in Fig 31)



Fig. 31

3. Connect splitter 4-pin plug (to module "Mic" input) to blue input jack on module seen in **Fig. 32**



Fig. 32

4. Connect 4-pin plug from control button to 4-pin jack on splitter (labelled control button in **Fig.31**)

Warning: If you experience clicking sound or no audio, please refer back to the installation steps above. The likely cause is when microphone and control buttons connections are reversed. You may also use the blue push button with the visor kit.

Frequent asked questions

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?**
The audio adapter included in kit must be connected to the CD changer short pigtail connector in trunk or hatch. The CD changer pigtail cable is located behind audio rack.



3. **In which model/year Jaguars will the JAGCD-HF work and where does the audio adapter connect?**
1998-99 x308 (To Changer/Trunk)
1997-99 x100 (To Changer/Trunk)
4. **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 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 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.
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 2A charging current. Apple IOS device (iPhone 7 and up) will **not charge**.

Notes:

- Muting is not possible in AM/FM mode. Muting is only possible in "CD" (Bluetooth) mode.
- Must use mic/push button included with kit or optional [G2-HF](#) visor mic kit. Factory mic (if present) does not apply.
- CD changer required and **remains functional**.

Disclaimer

- This product has no affiliation with Jaguar or Apple
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