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## **JAG-HF**

### **QUICK START BLUETOOTH INSTALLATION GUIDE FOR SELECT JAGUAR XJ & XK WITH CD CHANGER**

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 JAG-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 to Bluetooth, the **JAG-HF provides a 3.5mm Audio input which can be used to connect and play audio devices such as MP3 Players, iPods, Zune, iPads etc. (this audio input replaces CD changer playback)**. The built-in USB charging port can be used to charge devices (1.5A), however for larger current hungry devices (e.g. iPhone 8 and newer), we recommend adding optional USB "Fast Charge" kit. The AUX audio adapter connects at changer in trunk or hatch and Bluetooth module installs beneath center console glove box (armrest).

**CD changer required, remains connected but will no longer play.** To retain CD changer playback, purchase our [JAGCD-HF](#) instead. See Frequently Asked questions 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 similar size/color cables 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 by gasping both plugs and gently pulling apart (**do not twist**)
6. Once disconnected; note Fig. 2- CD changer female connector (right), amplifier/radio plug (left).



Fig. 2

7. Connect audio module right angle male plug (See Fig. 3) to CD changer. Ensure arrow on changer plug is facing down and mate both plugs by pushing inward (**do not twist**).



Fig. 3

- Line up arrow on amplifier/radio male plug and female connector on Aux box (See **Fig. 3**) and mate (do not twist)
- Connect one end of included 16 ft. 3.5mm male-male audio cable to jack on Aux box (See **Fig. 4**), and carefully route audio cable to the center console.



Fig. 4

## Routing audio cable

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



16 ft. Audio Cable



Fig. 5



Fig. 6

- Pull excess cable and begin tuck 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

- Continue to use pry tool or fingers to fish wire under center glove box into storage bin.
- 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.
- Lift to remove storage bin and set aside.
- Locate audio plug fed through in step 3 and **gently pull excess cable.**

## Bluetooth module installation

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

*Alert!! Cigar lighter wiring is prone to noise especially if a USB charger is installed. Locate a noise free power source or purchase a noise filter. In most instances, this noise is not related to a bad module.*



Fig. 10

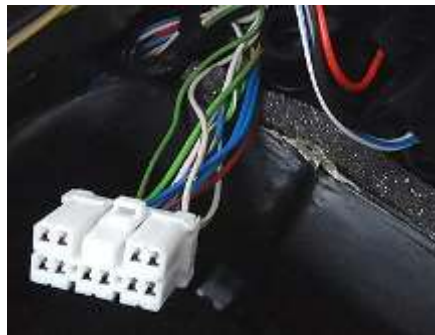


Fig. 11

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

Factory connector/Plug	Ignition supply 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)

1. If vehicle does not have a phone plug, simply tap into cigar lighter supply wires under console: White/Blue= 12V ACC, Black=Ground.



Fig. 12

2. Connect 3.5mm audio plug (routed from trunk) to Bluetooth Module audio jack (See Fig. 13)



Fig. 13  
Audio out Jack

3. Connect supplied (3ft.) audio cable (See **Fig. 14**) to Bluetooth module "AUX" input jack. (See **Fig. 15**) and route other end to dash area or location where audio device will reside (within 3ft).



**Fig. 14**  
3ft. audio cable



**Fig. 15**  
Bluetooth module

4. Connect control/mic plug (See **Fig. 16**) Bluetooth Module "Mic" input (See **Fig. 15**)



**Fig. 16**  
Control button/Microphone

5. Consider where to install control/mic button. Keep in mind the control button must be within reach of the driver and facing driver for voice commands and phone dialog (cable is 6ft. long). **We recommend completing the rest of the install prior to securing the control/mic button to the dash.** Once you decide on a location simply remove tape backing (See **Fig. 17**) and stick to dash (See **Fig. 18**)



**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

Bluetooth module includes a USB 2.0 Charging port. Should you decide to use it, we suggest one of 3 connecting options: **These are also applicable to optional USB Fast Charge Kit.**

**A. Flush to dash/panel requires drilling a 3/4" hole**

**B. Flush Mount with Support bracket** (use this option to mount USB terminal wherever your installation demands without drilling)

**C. Not Mounted-** (default)

Connect your own USB Cable

**A. Flush Mount to Dash or Panel (requires drilling)**

1. Drill a 3/4" hole in the dash or panel using a hole saw, 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 3.2 ft. USB cable



**Fig. 21**

Module USB port

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



**Fig. 22**

USB head



**Fig. 23**

Flush mounted to dash

4. Tuck and secure any extra wire from moving parts

## 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. Snap USB head to mounting plate until flush (See **Fig. 26**)



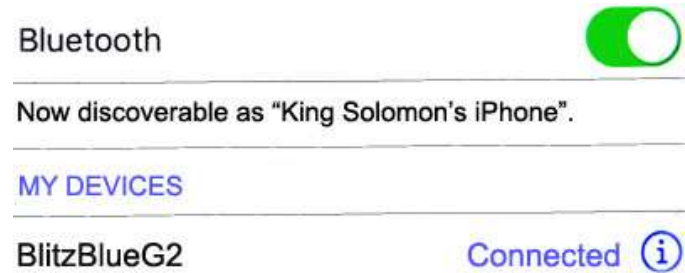
**Fig. 26**

4. Tuck and secure any extra wire away from moving

## Bluetooth Pairing and Connection

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

1. Turn the vehicle ignition to "ON".
2. The 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 and your Voice Recognition applications. Use the radio volume button to control playback level.

## Bluetooth Operation

1. Turn ignition to ACC position and radio ON.
2. Press “**CD**” button on radio. Track or Disc number are displayed only if they are disc in the Changer otherwise “NO MAGAZINE” is displayed (See Fig. 27)



Fig. 27

Radio must be in “CD Mode” when using the JAG-HF. CD **Changer remains connected but will no longer play.**

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 Aux input*	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 audio 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 Aux mode. Use the Aux device built-in control for music selection and controls.

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!



## Optional remote microphone Kit

The default control 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 the microphone and control buttons connections are reversed.

Please also note, it is possible to use original control button (blue phone symbol) with this kit.

## Frequent asked questions

1. **How to I pair a second phone to module?**  
In order to pair other phones make sure no other phone is paired to module. Once first device is unpaired, it will be possible to pair another.
2. **Can the JAG-HF be installed without removing the radio?**  
**YES;** this kit is designed to be installed without removing radio in both Premium and Standard Systems.
3. **In which model/year Jaguars will the JAG-HF work and where does the Aux audio adapter connect?**  
**1998-03 x308 (To changer)**  
**1997 x100 – with Ai-Net style changer only (To changer)**  
**1998-06 x100 (To changer)**
4. **Will the stereo mute when calls are made or received?**  
This system will not mute stereo unless radio is in "CD" mode (Bluetooth mode). If in AM/FM mode, audio system will not mute. In addition, you must switch radio to "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 ends.
6. **Which audio devices can I connect to the AUX input?**  
The 3.5mm aux jack on Bluetooth module supports any audio device with a 3.5mm plug (e.g. iPod, MP3, Satellite radio, etc.).
7. **Which devices can be charged from USB charging port?**  
Any and all Bluetooth 2.0 devices requiring 5V Charge including smartphones, iPod, iPhones, etc; however, power hungry devices such as the new iPhones (8-up) may not charge. If you own one of these power-hungry phones, purchase optional Fast charger option.

8. **After installing and testing the system everything works, but there is Engine "whine". What can I do to fix this?**
- Check ground wires
  - make sure all connections are snug
  - If powering module with cigar lighter, try removing device plugged into cigar port.
  - Relocate ground wire
  - Install a noise filter

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