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## JAG-HF

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

1998-03 x308 and 1997\*-06 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:

FUNCTIONAL 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 JAG-HF kit is compatible with virtually all Bluetooth phones, and sounds great for mobile conversations or streaming music. In addition to Bluetooth, the **JAG-HF provides a 3.5mm AUX input which can be used to connect wired devices such as MP3 Players, iPods, Zune, iPads etc. (AUX input takes the place of CD changer playback)**. The built-in USB charging port can be used to charge devices (1.8A), however for larger current hungry devices (e.g., iPhone 8 and newer), we recommend adding optional [USB-DMA3](#) "Fast charge" kit. The audio adapter connects to CD changer plug in trunk or hatch and Bluetooth module installs beneath center console glove box (armrest).

**Warning:** The required CD changer 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

## Installing audio module

Audio module connects to the CD auto changer connector in trunk/hatch

1. Remove carpet trim piece surrounding audio rack
2. Remove (4) 8mm nuts securing rack to vehicle.
3. Locate cable holder behind audio rack for CD changer single thick black cable (**connects CD changer to amplifier in premium systems and to radio in standard systems**) (See Fig. 1)

**Noteworthy:** There are similar size/color cables in this area. CD changer single thick black cable is the correct one.



Fig. 1

4. Remove black cable from holding tab and disconnect by grasping both plugs and gently pulling apart (**do not twist**)
5. note **Fig. 2-** CD changer female connector (right), amplifier/radio plug (left).



Fig. 2

6. **Connect factory male plug (See Fig. 2) to module:** simply align marks on factory male plug with that on module female connector
7. **Connect module male right-angle plug (See Fig. 3) to CD changer female connector (See Fig. 2)**

**Warning:** module male right-angle plug does not have marking. To connect; align mark drawn in Fig. 3 with mark on CD changer connector (See Fig. 2). Ignoring this warning will cause damage to both plug and connector.



Fig. 3

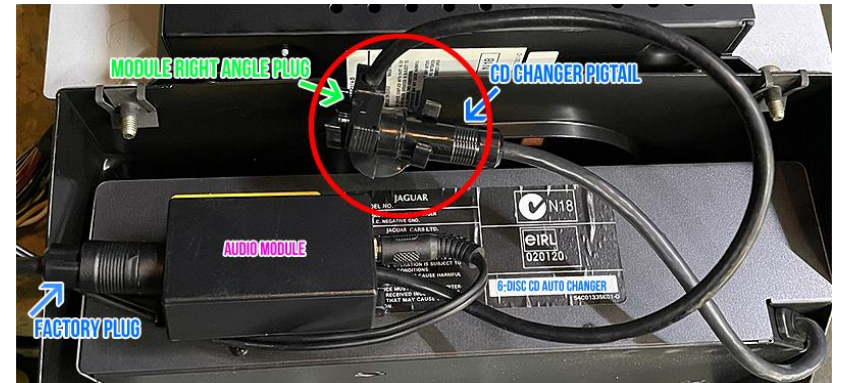


Fig. 3a

8. **Connect one end of included 16 ft. 3.5mm male-male audio cable to module AUX jack (See Fig. 4), and route to center console.**



Fig. 4

## Routing audio cable

1. 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 cable through and into cabin. (**See Fig. 6**)



16 ft. Audio Cable



**Fig. 5**



**Fig. 6**

2. Pull excess cable and begin tucking under backrest and seat cushion as you work towards 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 cable 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.**

## 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).

**Warning:** 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

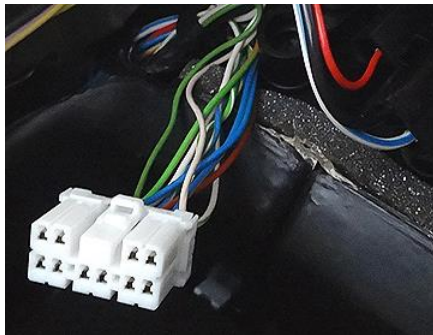


Fig. 11

Bluetooth module **Red wire** requires 12V accessory. (**Do not connect to constant battery supply**) and **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 module pigtail jack (See Fig. 13)



Fig. 13  
Audio out

3. Connect supplied (3ft.) audio cable (See Fig. 14) to module "AUX" input jack, (See Fig. 15). 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 push-button/mic (See Fig. 16) to module "MIC" input (See Fig. 15)



**Fig. 16**  
Control button/Microphone

5. Consider where to install push-button/microphone. Keep in mind the push-button must be within drivers reach and facing forward 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**

Make sure no ventilation duct is pointed towards the mic.  
It is best to mount button facing driver

## USB charging port

Module USB port is for charging only. Please note this may not provide sufficient current to charge newer power-hungry devices (e.g., iPhones). If you own one of these newer devices, consider purchasing our [USB-DM3](#) Smart charging Kit. You may install the provided USB kit in 1 of 3 ways:

**These are also applicable to optional USB Fast Charge Kit.**

- A. Flush to dash/panel requires drilling a  $\frac{3}{4}$ " 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  $\frac{3}{4}$ " 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  $\frac{3}{4}$ " hole created in step 1 and connect to module USB port (See Fig. 21)



**Fig. 20**  
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. Red LED inside module will begin to flash
3. Access Smartphone Bluetooth menu settings, and search (scan) for devices.
4. Select name listed below and tap "Connect"

Bluetooth



Now discoverable as "King Solomon's iPhone".

MY DEVICES

BlitzBlueG2

Connected ⓘ

**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 displayed only if they are disc in magazine 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 playback level and tone controls.

## 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*                | <b>Press button four times</b>  |
| 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!

## Frequent ask questions & troubleshooting

- 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.
- 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.
- What's the major difference between the JAGCD-HF and JAG-HF?**  
The JAGCD-HF requires and retains the CD changer, the JAG-HF requires **but does not retain use of the CD changer.** (Changer remains connected but will no longer play and instead an aux input jack is provided)
- In which model/year Jaguars will the JAG-HF work and where does the audio module connect?**  
**1998-03 x308 (To changer)**  
**1997 x100 – with Ai-Net style changer only (To changer)**  
**1998-06 x100 (To changer)**
- 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).
- 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.
- 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.).
- 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.

- There is alternator "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.

| Feature                  | JAG-HF       | JAGCD-HF     | BT45-JAG | AZDIY-JAG98 | AZDIY-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            |
| Smart media button       | <sup>2</sup> | <sup>2</sup> | ✓        | ✓           | ✓            |
| Module installs:         | Armrest      | Armrest      | Armrest  | Armrest     | behind radio |

\*Aux input instead of CD changer

\*\* activate VR on audio device as customary

<sup>2</sup> optional [remote](#)

### Disclaimer

- This product has no affiliation with Jaguar or Apple
- There are no warranties expressed or implied by purchase of this product
- We're not liable for misuse of this product.

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