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. Remove carpet trim piece surrounding audio rack (See **Fig. 1**). If navigation is missing (**Fig. 1A**); use open space to access the CD changer connecting plug, however; if vehicle has navigation, accessing plug requires unlocking the "inner frame":

2. Remove (2) 7mm bolts on right and left side (See **Fig. 1A, 1B**)
3. Remove (2) 7mm bolts from top (See **Fig. 1A, 1B**)

Fig. 1

Fig. 1A

Fig. 1B

4. Pull out the inner frame.
5. Locate short black pigtail cable coming out CD auto changer (it's a single "thick "cable) See **Fig. 2**

Fig. 2

6. Remove cable from holding tab (See **Fig. 2**), and disconnect by pulling apart **(do not twist)**

7. Once disconnected; female socket (on the right) leads to changer and male plug on the left (leads to amplifier or radio) - (See **Fig. 3**)

Fig. 3

8. Insert factory straight angle male plug (See **Fig. 3**) to module socket (See **Fig. 4**) by fist aligning markings on both, then push-in to connect (do now twist) (See **Fig. 4**)
9. Connect audio module right angle plug (See **Fig. 5**) to CD changer socket (connector) (See **Fig. 3**)

Warning: Our right-angle plug (See **Fig. 4/5**) does not have alignment marking. Connect to CD changer socket by placing" imaginary" alignment mark seen in **Fig. 5** opposite alignment mark on CD changer socket in **Fig. 3**

Fig. 4

Fig. 5

10. Route module 6-pin socket (See **Fig. 6**), to center console area.
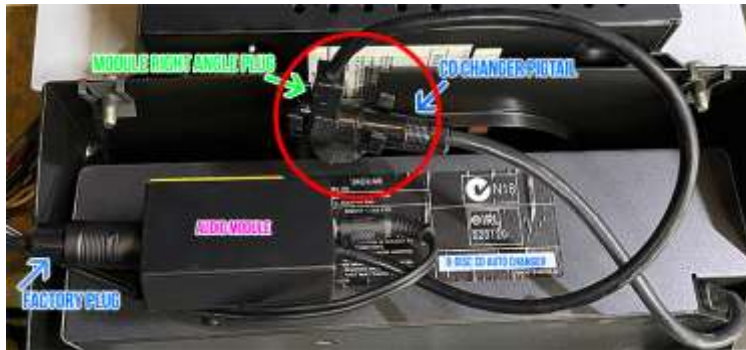

Fig. 6
12 ft. audio cable

Fig. 7   **Fig. 7a**

2. Pull excess cable and, tuck (hide) under backrest, seat cushion and work towards rear of center glove box (armrest) as seen in **Fig. 8, Fig. 8c** and **Fig. 8d**

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. 7**. From inside trunk fish audio plug (See **Fig. 6**) through and into the cabin. **(See Fig. 7a)**

Fig. 8   **Fig. 8c**

3. Continue to use pry tool or fingers to fish wire under center glove box to storage bin.

Fig. 8d

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) may require additional steps not part of this guide.

Bluetooth module installation

We recommend installing Bluetooth module in center armrest (See **Fig. 9**). In this area you will also find the factory phone plug (See **Fig. 10/11**) and also the cigar lighter, either of which is able to provide 12V accessory/ground to module (see **Fig. 9**).

Fig. 9

Fig. 10

10-pin female phone plug

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

Factory connector/color	Accessory wire/color	Ground wire color
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. 11
14-pin male phone plug

Note: If vehicle does not have a phone plug, use cigar lighter wires to power module:
White/Blue is 12V accessory and **Black** is ground.

Fig. 12

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

Fig. 13
splitter

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

Fig. 14
Module

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

Fig. 15

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

Fig. 16

5. Consider where to install control button/microphone. Microphone (button) is built-into the control button and 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
Control button/microphone

Fig. 18
control button with built-in microphone secured on dashboard

Ensure no ventilation duct is pointed towards the microphone.

Charging port with optional USB cable

The built-in USB port on module (See **Fig. 21**) provides approximately 1.8A charging current. Newer power-hungry devices (e.g., iPhone 8+ and others) may not charge. If you own one of these new devices, we recommend purchasing optional USB-DM3 smart charging kit.

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:

A. **Flush to dash/panel requires drilling a ¾" hole**

B. **Flush with Support bracket** (Mount USB terminal wherever your installation demands without drilling)

C. **USB port-** (freestanding- default)

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

1. Drill a ¾" 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 ¾" 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.
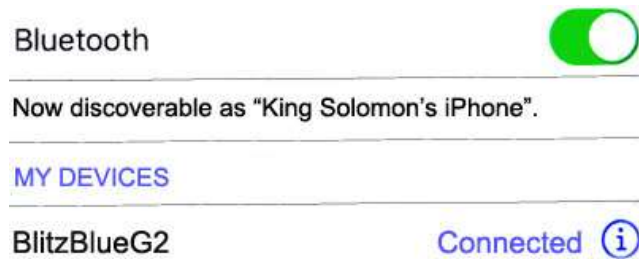   Tuck away any extra wires and verify **BLUE** LED is lit.

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"

Bluetooth ⬤

Now discoverable as "King Solomon's iPhone".

MY DEVICES

BlitzBlueG2   Connected ⓘ

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:

Use push button to perform the following 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

Use control button to perform the following 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 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 CD changer removal steps and secure push button/microphone to dash as per step #5 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. Press CD button on radio to operate CD auto changer then **press control button 4 times**. To exit CD changer mode press and release push button (streaming resumes)
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 etc), 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 & 2000-03 X308 (To changer/trunk)
   late 1997-99 x100 & ,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 from module built-in USB port?**
   Most devices requiring 1.8A or less are able to charge, however newer IOS devices (iPhone 7 and up) may not charge as these require more charging current. Purchase optional USB-DM3 smart charging kit if looking for a more 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. Also check volume setting on audio device.

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

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