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## **BT45-JAG**

Quick Bluetooth Installation Guide for select Jaguar X100 and X308 with CD Changer  
1998-03 x308 and 1997-06 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 BT45-JAG kit is compatible with virtually all Bluetooth phones, and sounds great whether you are using it for mobile conversations or streaming music. The system will mute upon initiating or receiving a call and plays callers voice on car speaker. The wireless remote control button conveniently installed on dashboard is used to launch Voice Recognition application (Siri, Google Now, Assistant etc.), initiate phone calls and launch applications. Thanks to the BT45-JAG Kit you can **keep the radio and car you love** while enjoying Bluetooth features only available on newer cars.

**The BT45-JAG requires a working Changer (which remains connected but will no longer play)**

See **Frequently Asked questions** at the end of this guide

### Notes:

- Vehicle must have a phone plug beneath armrest
- CD Changer (required) remains connected but will no longer play.

## Audio Adapter Installation:

1. Remove carpet trim piece surrounding audio rack (See **Fig. 1**). If rack does not have Navigation, use that space to access the CD Changer connecting plug, however if vehicle has Navigation, accessing the plug usually requires lowering rack by removing (4) 8mm nuts securing rack, then lean rack forward to reveal wiring.



Fig. 1

2. Locate and follow the CD changer short (6 inch) pigtail cable (it's the only cable on changer). At the end of this cable is the female connector (See **Fig. 2**) required for this installation (See **Fig. 1A**)



Fig. 1A  
plug/connector location

- Remove cables from holding tab and disconnect by gently pulling apart **(Do not twist)**
- Once disconnected, the cables should resemble **Fig. 2**. Female connector (right) from changer, male plug (left) from amplifier (premium system) or radio (standard system)



**Fig. 2**

- Align arrow marks on vehicles male plug (See **Fig. 2**) with that of audio adapter female connector (See **Fig. 3**), press together firmly **(avoid twisting)**



**Fig. 3**  
Audio Adapter



**Fig. 3A**

- Repeat by connecting audio adapter male plug (usually right angle plug) to CD changer female connector (See **Fig. 2**).

- Place cables back into holding tab
- Connect supplied 3.5mm audio cable (See **Fig. 4**) to 3.5mm jack on audio adapter (See **Fig. 3A**)
- Proceed to next step (routing audio cable).

**Noteworthy:** Vehicles with multiple factory options (CD changer, Amplifier, DVD) makes it possible to connect audio adapter to the wrong plug/connector which may result in system no longer working. To avoid this, go directly to the CD changer and locate the single cable.

## Installing (routing) Audio cable (X308)

- 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**)



20 ft. Audio Cable

**Fig. 4**



**Fig. 5**



**Fig. 6**

2. Pull excess cable and begin to tuck 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**

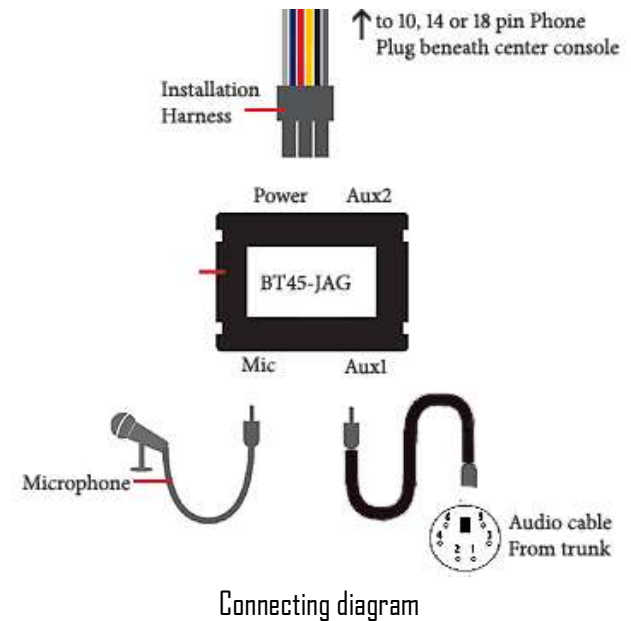


**Fig. 9**

3. Continue to use pry tool or fingers to fish wire under center glove box and 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 X308. X100 modes may require additional steps not part of this guide.

## Module wiring diagram



1. Connect 3.5mm plug routed from trunk to Module "AUX2" jack (See **Fig. 11**)  
**Note:** If engine noise is present, try "AUX1".



**Fig. 11**  
Module

## Microphone Installation:

**Note:** If vehicle has factory mic in overhead console (See **Fig. 12**) you may opt to use it instead of mic included with kit. To use factory mic, simply connect 3.5mm plug on installation harness (See **Fig. 15**) to module "MIC" input (See **Fig. 11**).



**Fig. 12**

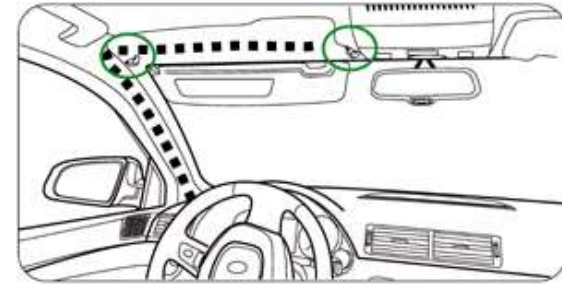
factory microphone

To install microphone included in your kit (See **Fig. 13**) simply clip to visor and carefully route 3.5mm plug down side pillar, under dash and into center armrest. Connect 3.5mm plug to module (See **Fig. 14**)



**Fig. 13**

microphone



**Fig. 14**



**Fig. 15**

installation harness with 10-pin male connector

3. Connect installation harness 6-pin plug (See **Fig. 16**) to module "Radio/Power" input (See **Fig. 17**)



**Fig. 16**



**Fig. 17**

4. Connect installation harness 10, 14 or 18-pin plug/connector to factory 10, 14 or 18-pin phone plug/connector beneath armrest (See Fig. 18/19)



**Fig. 18**  
(shown here 10-pin Female plug)



**Fig. 19**  
(shown here 18-pin Male connector)

**Alert!!** Prior to ordering, it is vital to check factory phone plug/connector in your vehicle. Here are some possibilities: 1998-03 x308 and 1997-99 x100 may have a 14-pin male connector (See Fig. 19) or a 10-pin male or female connector OR 10-pin female plug as seen in Fig. 18.

**(Plug/connector with holes=female, Plug/connector with pins= MALE)**

**2000-02 x100 may have a 14-pin male connector**

**2003-06 x100 may have an 18-pin male connector.**

Select plug/connector gender and pin count **found in your vehicle** from options on product page. We will include matching plug/connector based on your selection. If in doubt please email picture of plug/connector to [support@discountcarstereo.com](mailto:support@discountcarstereo.com)

**2000 XK vehicles with no previous factory phone kit may require additional wiring in trunk to activate phone plug in storage bin.**

5. Secure module inside the center armrest

## Bluetooth Pairing and Connection

This is a one-time process that will not have to be repeated. After initial pairing, the BT45-JAG will automatically reconnect with paired phone upon entering vehicle.

1. Turn vehicle ignition "ON".
2. Turn radio "ON" and press "CD" button to enter CD/Bluetooth mode
3. Go to smartphone Bluetooth menu settings, and search (scan) for available devices.
4. Select BT45 and click "Connect or Pair"
5. Once paired , "Connected" is heard on car speakers

## Pairing a second device (Multi-point)

1. Turn vehicle ignition "OFF".
2. Disable Bluetooth on fist phone (already paired)
3. Turn vehicle ignition "ON"
4. Turn radio "ON" and press "CD" button enter CD/Bluetooth mode
5. Enable Bluetooth on second phone and search (scan) for available devices
6. Select BT45 and click "Connect"
7. Once paired , "Connected" is heard on car speakers
8. Turn ignition "OFF"
9. Enable Bluetooth on First phone
10. Turn ignition back "ON"
11. Turn radio "ON" and press "CD" button to enter CD/Bluetooth mode
12. Both phones will automatically connect. You should hear "Connected, Connected" confirming both devices have been successfully connected

## Wireless Remote Control

1. Twist open the remote control bottom cap
2. Remove battery's protective clear film
3. Close cap
4. Use enclosed double-side tape and place remote control at a location that is most convenient for you. Avoid placing the remote control over or around airbags or in direct sunlight.



Fig. 20  
Wireless remote control

## Wireless Remote Control Battery



The LED on remote control will blink 10 times indicating the battery is low. To replace battery a 3V CR2032 is required:

1. Turn vehicles ignition to "OFF"
2. Twist open the remote control bottom cap and remove battery (observe polarity)
3. Turn vehicles ignition to "ON" and press "CD" button on radio and within 60 seconds install new battery
4. You will hear a long beep on car speakers at the same time the remote control's LED will turn solid blue followed by 10 flashes
5. If remote LED does not flash 10 time, repeat steps 2 -5

## Wireless Remote Control Operation



## Enable/Disable Voice Prompt +Caller Announcement

1. Stop all active calls and or media streaming
2. Press and hold  button (**2 sec**) on remote control to enable feature: you will hear "Voice Enabled"
3. Press  button on remote control to disable feature: You will hear "Voice Disabled"



## Media Streaming Operation

If 2 phones have been paired, music streaming is possible from either one.

1. Set the radio to "CD/Bluetooth" mode
2. Launch preferred music app
3. Use wireless remote control to adjust volume, change tracks etc.
4. To switch between phones, simply pause first phone and press play on second and vice versa



## Hands-Free Phone Call Operation

### Answering and ending calls.

1. Set radio to "CD/Bluetooth" mode (if not already)
2. To answer call, press the  button on remote control or answer directly on phone\*
3. To reject call or end, press the  button on remote control
4. Phone call audio can be adjusted by remote control, on phone, radio volume or steering wheel control buttons (if equipped)

\*if you answered call directly from phone, phone audio will go through the phone. You must select BT45 from your phone screen to redirect call to car speakers.

### Placing Calls

1. Tap the  button on remote control to initiate voice command or simply make call directly from phone
2. Press  button on remote control to end call

The environment inside a moving vehicle tends to be noisier. This will affect how accurately the phone's voice recognition picks up your voice prompts

### Notes:

1. If playback is distorted, adjust volume on Bluetooth device.
2. Voice command compatible with Apple (Siri), Android (Google Now), Blackberry (Assistant)

If successful go ahead and Reinstall the Radio

## Feature Comparison:

The following chart should aid in selecting the right kit based on features, vehicles requirements etc.

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

\*Aux input instead of CD Changer

\*\* optional [G2-HF](#) kit available separately.



## Frequent asked questions

- 1. Why is it important to check factory phone plug? Can this kit be installed without it?**  
Jaguar used 4 phone plugs/connectors and you must check which applies to yours (same model/year may have different plug). This information is required so we include matching plug/connector. If phone plug has been cut you may still install this kit, but require additional wiring not part of this guide.
- 2. Can the BT45-JAG be installed without removing the radio?**  
The BT45-JAG does not require radio removal.
- 3. In which model/year Jaguars will the BT45-JAG work and where do I install the AUX adapter?**  
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/hatch)  
1997\*-06 x100 Standard Sound System (To Changer/hatch)  
2000-06 x100 Premium Sound System (To Changer/hatch)
- 4. Will the stereo mute when I receive or make Calls?**  
YES. When call is initiated or received. Radio display will read "PHONE".
- 5. Will I be able to use both music and Navigation apps at the same time?**  
YES. When streaming audio and Navigation; music will mute during 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 call has ended.
- 6. This kit includes a mini USB port; can it be used for charging?**  
NO. Unfortunately, the mini USB port is for software upgrades.
- 7. After installing and testing the system everything works, but there is engine "whine". What can I do to fix this?**

- Ensure volume on audio device is close to max and increase volume on module using the VOL + on remote control
  - Check grounds
  - make sure all connections are snug
  - **connect audio jack to "AUX 1" on Bluetooth module**
  - Install noise filter
- 8. Will I be able to use overhead microphone in my car instead of microphone included in this kit?**  
Yes. If your kit include option to use factory mic, simply connect 3.5mm plug from installation harness (See Fig. 15) to "MIC" input on Module.
  - 9. Where is the factory phone connector?**  
The factory phone plug/connector is beneath center armrest. ROW and NAS vehicles may have different plugs; **so, we can't be certain which plug size or gender apply to your vehicle.** Please verify plug size and gender prior to ordering so that it can be added to your kit. In addition, 2000 XK without factory phone will require additional wiring in trunk so to activate phone plug under storage bin.
  - 10. I realize the CD changer is required for this kit to work, but will I be able to retain use of the CD Changer?**  
NO. **Purchase our JAGCD-HF to retain use of the Changer.**

\*1997 x100 VIN#812317 and above

### Disclaimer

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

Email [support@discountcarstereo.com](mailto:support@discountcarstereo.com)

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