JAGUAR

Bluetooth

BT45-JAG

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

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
CD changer and factory phone plug

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 music streaming. The system will mute upon initiating or receiving a call and announces callers phone number on car speaker. The wireless remote control conveniently installed on dashboard is used to launch Voice Recognition application (Siri, Google Now, Assistant etc.), initiate phone calls launch applications, track selection and more. Thanks to the BT45-JAG Kit users **keep the radio and car they love** while enjoying Bluetooth features only available on newer cars.
The BT45-JAG requires a working CD changer (which remains connected but will no longer play) and factory phone plug (under center armrest)

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

Notes:
- Vehicle must have a phone plug beneath armrest
- Required CD changer remains connected but will no longer play.

Audio module installation

1. Remove carpet trim piece around audio rack (See **Fig. 1**). If vehicle does not have GPS, use empty slot to access changer plug, however vehicles with Navigation or convertibles, may require lowering audio rack by removing (4) 8mm and leaning rack forward to reveal wiring.

Fig. 1

2. Locate short CD pigtail. Connects CD changer to radio (Standard systems) or to amplifier (Premium system).
   This is the cable required to complete install (See **Fig. 1A**)

Fig. 1A
plug/connector location

3. Remove cable from holding tab
4. Disconnect CD changer by gently pulling apart **(Don't wiggle or twist)**
5. You should not have cable as seen in **Fig. 2**. Female connector (right) – from CD changer, male plug (left) – to amplifier or radio

Fig. 2

6. Connect factory Male plug (See **Fig. 2**) to audio module female connector. To connect, simply align markers and push in (**avoid twisting**)

7. Connect audio module **right-angle** plug (See **Fig. 3b**) to CD changer female connector in **Fig. 2**

Warning: Our right-angle male plug (See **Fig. 3b**) does not have an alignment arrow indicator; however, imaginary arrow seen in **Fig. 3b** must align opposite arrow indicator on factory CD changer connector in **Fig. 2** Once aligned mate both (do not twist).

Fig. 3b

8. Return cable to holding tab
9. Connect supplied 3.5mm audio cable (See **Fig. 4**) to audio module 3.5mm jack (See image below)

10. Proceed to next step (routing audio cable).

Noteworthy:

They are multiple Ai-Net type plugs/connectors at audio rack and more so in vehicles with premium systems (e.g., Amplifier, Navigation etc.). In premium audio systems, audio module (See **Fig. 3**) connects between CD changer and amplifier and in standard systems; between CD changer and radio.

To minimize connecting errors, locate single black cable emerging from CD auto changer --- seen in **Fig. 2** (right). This is the cable with which you will be working. Connecting audio adapter to something other than CD auto changer plug will result in volume issues, loss of power (radio) etc.

Routing audio cable (X308)

1. Use pry tool or similar to open gap between window pillar and rear deck as seen in **Fig. 5**. From trunk, fish audio cable (See **Fig. 4**) through and into vehicle cabin. **(See Fig. 6)**

20 ft. audio cable
Fig. 4

Fig. 5

Fig. 6

2. Pull excess and tuck under seat backrest and cushion and work towards center glove box (armrest) as seen in **Fig. 7, Fig. 8** and **Fig. 9**
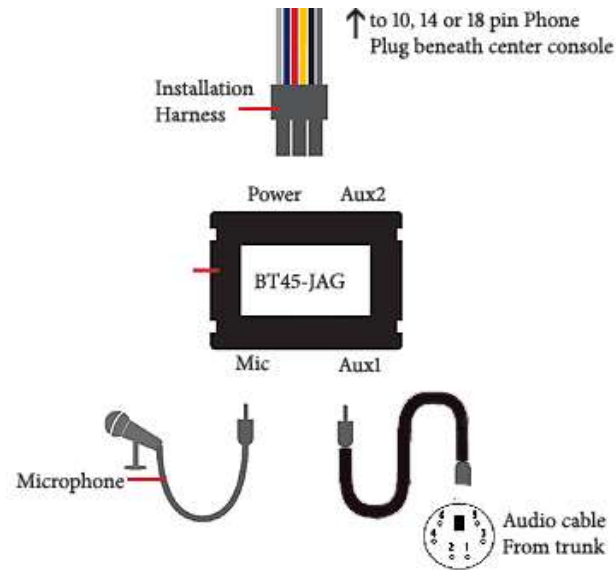

Fig. 7

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 center glove box and remove 2 Philips head screws from latch cover and two more from hinge then remove 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 Jaguar XJ (X308). Jaguar XK (X100) – **Convertibles require additional steps not part of this guide**.

Wiring diagram

Connecting diagram

1. Connect audio cable 3.5mm plug (routed from trunk) to module "AUX1" jack (See **Fig. 11**)
   Note: After initial install, use "AUX2" if engine noise is present during playback.

Fig. 11
Module

Microphone installation

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

Fig. 12
factory microphone

To install included microphone (See **Fig. 13**) simply clip to visor or headliner and carefully route 3.5mm plug down side pillar, under dash and into center armrest. Connect 3.5mm plug to module "MIC" Input jack
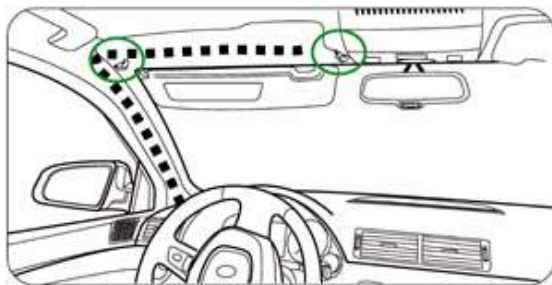

Fig. 13
microphone

Fig. 14

Fig. 15
installation harness
(with 10-pin male connector)

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

Fig. 17

Fig. 16

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

Fig. 18
(10-pin Female plug)

Fig. 19
(18-pin Male connector)

WARNING!! Factory phone plug **is required** to install this kit. It is vital you provide us the plug/connector size/gender for your vehicle. The plug/connector is located under storage bin. **Go to page 5 to learn how to remove storage bin.**
1998-03 XJ (X308) and 1997*-99 XK (X100) usually have a 14-pin male connector (See **Fig. 19**), 10-pin male connector OR 10-pin female plug seen in **Fig. 18**.
plug or connector with holes=female (See Fig. 18)
plug or connector with pins= MALE (See Fig. 19)
2000-02 XK (X100) usually have a 14-pin male connector
2003-06 XK (X100) usually have an 18-pin male connector.
When ordering **select plug or connector gender and pin count found in your vehicle.** Your kit will include matching plug or connector **based on information you provide**. If incorrect information is provided, the install harness will not work. Please check **your vehicle** first (don't rely on others with same vehicle). If in doubt, email picture of plug/connector to support@discountcarstereo.com
2000 XK (X100) with no previous factory phone kit may require additional wiring in trunk to activate phone plug found in storage bin.

5. Secure module to 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. "Connected" is heard on car speakers

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

Remote Control Operation

Tap to adjust volume up

Tap to play/pause when in streaming mode. Tap & hold (2sec) to activate voice command such as Siri, Google Now etc

Tap to end/reject calls or previous track

Tap to answer calls or Next Track

USA SPEC

Tap to adjust volume down

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

Answering and ending calls.

1. Set radio to "CD/Bluetooth" mode (if not already)
2. To answer call, tap the ▶ button on remote control or answer directly on phone*
3.   To reject call or end, tap 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 phone. You must select BT45 from 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 audio rack etc.

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	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
Smart media button	2	2	✓	✓	✓
Module installs:	Armrest	Armrest	Armrest	Armrest	behind radio

*Aux input instead of CD changer

** activate VR on audio device as customary

2 optional **remote**

Frequent asked questions & troubleshooting

1. **Why is it important to check factory phone plug? Can this be installed without one?**
   Jaguar vehicles are equipped with 4 different phone plugs or connectors under storage bin (center glove box) and must be verified prior to ordering. (don't rely on others with same vehicle). Armed with this information we are able to include matching plug or connector. If phone plug has been cut, you may still install this kit, but required to make additional wiring not part of this guide.

2. **Can this be installed without removing radio?**
   BT45-JAG does not require radio removal. Module installs in storage bin.

3. **Which model/year Jaguars will the BT45-JAG work and where do I connect AUX adapter?**
   1998-03 XJ (X308) (To CD changer plug in trunk/hatch)
   1997*-06 XK (X100) (To CD changer plug in trunk/hatch)

4. **Will radio mute when I receive/initiate calls?**
   YES. When call is initiated or received, radio will mute and "PHONE" is displayed on radio screen.

5. **Will callers name/number display on radio screen?**
   NO. Phonebook **numbers are announced** on car speakers.

6. **Will I be able to stream music and use GPS apps at the same time?**
   YES. When streaming and navigating; music will mute during guidance and return to previous state when guidance ends. If a call is made or received, both navigation guidance and streaming are muted until call has ended.

7. **This kit includes a mini-USB port; can it be used for charging?**
   NO. Unfortunately, the mini-USB port is for software upgrades.

8. **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 between 90-100% and increase volume on module using the VOL + on remote control
   - Check grounds
   - make sure all connections are snug
   - **switch audio jack to "AUX2" on Bluetooth module**
   - Install noise filter

9. **Will I be able to use overhead microphone in my vehicle instead of microphone included in this kit?**
YES. If kit include option for factory mic, simply connect 3.5mm plug from installation harness (See **Fig. 15**) to module "MIC" input.

10. **Where is the factory phone plug/connector?**
Factory phone plug/connectors are bellow center armrest. ROW and NAS vehicles may have different plugs; **so, we can't be certain which plug size or gender applies to your vehicle.** Please verify plug/connector size and gender prior to ordering so that it can be added to your kit. Don't rely on others with same vehicle.
In addition, 2000 XK without factory phone will require additional wiring in trunk so to activate phone plug under storage bin.

11. **I realize the CD changer is required for this kit to work, but will I be able to play CD's?**
NO. This kit does not have option to retain CD playback. **Purchase our** **A2DIY-JAG98** , **JAGCD-HF** **etc. to retain use of the changer.**

*Late 1997 XK (X100) with Ai-NET CD plug only. Early 1997 with 8-pin DIN CD plug do not apply.

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