





BTH-JAG98

QUICK START BLUETOOTH INSTALL GUIDE FOR 1997-06 XK (X100) AND 1998-03 XJ (X308) WITH CD CHANGER

(Not applicable to other model/years)

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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.

Requirement

Fully functioning CD auto changer in trunk/hatch

Introduction

This easy to install Bluetooth hands-free, streaming and charging kit is essential to keeping your classic as stock possible with up-to-date Bluetooth features. The new BTH-JAG98 (formerly A2DIY-JAG98) sounds great for mobile conversations, streaming music applications, podcast and more.

The NEW! wireless remote is used to pause, play, next/previous tracks, answer/end calls and switch sources and is easily mounted to dashboard with double side tape. In addition, the built-in USB port provides 5V/2.1A current to charge those power-hungry devices while on the road.

Keep original radio and CD changer while enjoying Bluetooth features only available in newer cars.

Note: The BTA-JAG98 <u>does not interfere</u> with functionality of existing AM/FM/radio and does require a functioning 6-disc auto changer.

See Frequently Asked question at the end of this guide for more details.

Installation

For XJ: Remove carpet trim piece (liner) 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":

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

Remove (2) 7mm bolts from top (See Fig. 1A, 1B)



Fig. 1



Fig. 1A



Fig. 1B

- 2. Pull inner frame out.
- 3. On CD changer, locate short black pigtail cable (it's the only cable on CD changer) See Fig. 2



Fig. 2

- 4. Remove cable from holding tab (See **Fig. 2**), and disconnect by pulling apart (do not twist)
- 5. Once disconnected; female (Seen on the right) leads to changer and male plug (left) leads to amplifier or radio (See **Fig. 3**)



Fig. 3

6. Connect factory male plug (left in **Fig.3**) to female connector on install harness (**Fig. 4**). Hold one cable in each hand, align markers (triangle) on both and push inward. (Do not twist to connect).



Fig. 4

7. Connect 90-degree male plug (See **Fig. 4a**) to CD changer female socket (See **Fig. 3/4**)

Warning: The right-angle male plug on install harness (See Fig. 5) does not have an alignment marker; Use imaginary marker (triangle) shown in Fig. 4, align with market on female connector from CD auto changer (See Fig. 4) and push inward (do not twist)



Fig. 5

Noteworthy:

There are multiple Ai-Net type plugs/sockets connections between audio rack components and more so in vehicles with premium sound (e.g., Amplifier, Navigation, etc.). In premium audio systems, install harness connects between CD changer and amplifier and in standard systems (no amplifier) between CD changer and radio.

To minimize connecting errors, locate single black pigtail on the CD auto changer – (See Fig.4) Connecting the installation harness to something other than CD auto changer will result in low or no audio playback, no power to radio etc.

8. Route 6-pin plug from install harness toward center console (armrest/center glovebox) area.

Routing installation cable (Sedan)

 Use 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 gap and into the cabin. (See Fig. 7) Avoid pulling or tugging on 16-pin plug.



Fig. 6





Fig. 7

2. Pull excess cable and tuck (hide) under backrest, seat cushion as you work towards the rear of the center glove box (armrest) See Fig. 8



Fig. 8

- Continue fishing installation harness under center glove box and into storage bin area.
- 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 installation harness 8-pin female fed through in step 3 and **gently pull excess cable.**

Note: The aforementioned steps apply to sedan (X308) X100 (convertibles) requires additional steps **not part of this guide.**

Module installation

We recommend installing the module (See Fig. 11) in center armrest/glovebox (See Fig. 9) or if possible, **behind the radio** (your choice). This area beneath armrest is also home to factory phone plug and cigar lighter power supply. Both circuits include 12V switched supply wire to which you can power the module.



Fig. 9



Fig. 10

1. Connect installation harness 16-pin plug (See Fig. 10) to module 16-pin connector (See Fig.11) Ensure locking tab is engaged and does not disconnect.



Fig. 11

- 2. Tap/splice installation harness **red wire** (See **Fig. 10)** to a 12V switched supply wire (Avoid connecting to constant battery supply)
- 3. We recommend tapping/splicing factory phone plug (if equipped).

 The factory phone plug is located under center armrest. Use chart below to locate switched wire on said connector/plug. Always test for proper voltage on specified wires prior to finalizing.





Fig.12

Connector/Plug/ Color	12V pin/wire color		
10-pin Female (white) Fig.12	Pin 10 (light green)		
10-pin Male (yellow)	Pin 10 (white/green)		
14-pin (yellow) (Fig. 12)	Pin 13 (Green)		
18-pin male (yellow)	Pin 5 (Green)		

4. If vehicle does not have a phone plug; connect accessory wire to cigar lighter 12V supply wire under console:

Cigar lighter 12V switch wire is usually white/blue.

Warning: Cigar lighter supply <u>may introduce noise into the system especially if</u>
<u>use to power a USB charging device</u>, in which case consider an alternate (we
recommend factory phone plug). If engine noise is still an issue, we recommend
adding a noise filter or similar.

Playback options explained

There are two playback listings for this module. Proceed with install based on option selected at checkout.

- 1. Retain changer playback (default)
- 2. Auxiliary input (replaces CD playback—changer remains connected)

1. Retain changer playback:

Default option allows users to retain use of the 6-disc CD auto changer. **Proceed to installation step 5 below.**

2. AUX input (instead of CD playback):

Instead of being able to play CD's (from 6-disc changer); an AUX input jack is provided (See **Fig. 13**) to which users connect and play portable audio devices (e.g., sat radio, Alexa, iPod, Mp3 etc.)

Warning: Aux input option takes the place of CD playback. CD changer remains connected but playback will not be possible.

The aux jack may be left freestanding or custom installed to dash or panel. To custom install:

- 1. Drill a ¼ inch hole to dashboard or panel
- 2. Insert aux jack through hole and secure with nut. (See Fig. 13)



Fig. 13

- 3. Connect one end of included 3.5mm audio cable (See **Fig. 14**) to "AUX" jack and connect the other end to audio device (within 3 ft.)
- 4. Proceed to installation step 5



Fig. 14

- 5. Attach mic with mounting bracket to headliner, sun visor or anywhere on the dash/console near driver and away from ventilation ducts etc.
- 6. Route mic cable down pillar, under dashboard and center console into center armrest where you have installed the module.
- 7. Connect mic right angle plug to "MIC" input jack on module (See Fig. 15)





Visor microphone



Fig. 15

Optional USB extension cable installation

Note: 1. Optional 6 ft. USB dash mount extension cable is not required for operation, however it extends USB power port (See **Fig. 18**) to dashboard, glovebox etc.

2. The USB port (See Fig. 18) supports charging and software updates only

Drill a ¾" hole to dash or panel using a step drill bit or equivalent (See Fig. 16)
As an alternative; use the included bracket (See Fig. 20a) to mount USB
without drilling.



Fig. 16

2. Fish USB cable terminal (See Fig. 17 through hole created in step 1 and plug into USB port on module (See Fig. 18)



Fig. 17 USB cable



Fig. 18

3. Snap header (See **Fig. 19**) to surface until flush (See **Fig. 20**)



Fig. 19



Fig. 20



Fig. 20a

Tuck and secure any extra wires from moving parts and proceed to next step

Pairing module

Pairing varies among devices but basic steps are the same. This process is done upon initial install and will not have to be repeated

- 1. Turn ignition and radio "ON"
- 2. From your Bluetooth enabled device, turn the Bluetooth ON and search for Bluetooth devices.
- 3. When a list of available Bluetooth devices appears on your Bluetooth device, select "DisCarSt" (See Fig. 21)
- 4. Confirmation "tone" is heard on car speakers.
- 5. The unit will automatically enter the BT Audio source and you can now start streaming audio from your Bluetooth enabled device. Note: If the mobile phone doesn't support SSP (Simple Secure Pairing) Profile, please enter the pass code of "ODDO"



Fig. 21

Feature comparison chart

Feature	BT45-JAG	BTH-JAG98	BTH-JAG98R	BTA-JAG98
CD changer retention	Χ	√	✓	✓
Audio input (aux)	χ	Optional	Optional	χ
Supports hands-free calls	✓	✓	✓	χ
Supports audio streaming	√	√	√	√
Charging (USB)	Χ	✓	✓	✓
Mute sounds (all radio modes)	✓	Х	Х	Х
Visor microphone	✓	✓	✓	χ
Requires CD auto changer	✓	✓	✓	✓
Voice recognition	✓	χ**	χ**	Х
Requires phone plug	√	Х	Х	χ
Plug-n-play installation	✓	Х	Х	χ
Remote control	√	√	√	√
Module installs:	Armrest	Armrest	behind radio	Armrest

^{*}Aux input instead of CD changer

Bluetooth operation

- 1. Turn ignition to "ACC" or "ON" and turn on the radio.
- 2. Press "CD" button on radio to switch to Bluetooth mode
- 1. Launch smartphone music streaming application
- 2. Use remote control (See **Fig. 22**) or device built-in controls or touch screen to for track selection, adjust volume, pause/play etc.
- 3. Place phone call or ask someone to call. To answer call; tap **Previous** track on remote control.
- 4. To end call, tap Next track remote control.
- 5. To switch to CD changer/AUX, tap; Pause/Play button
- 6. To switch back to streaming; tap Pause/Play button
- If correct operation is confirmed go ahead and reinstall radio.
 Note: To adjust volume use tap/release action instead of tap and hold



8. If correct operation is confirmed go ahead and reinstall radio.

^{**} activate VR on audio device as customary

² optional **remote**

Frequently ask question and troubleshooting

What is the difference between the BTH-JAG98 and BTH-JAG98R?
 The BTH-JAG98R connects to the radio and applicable to standard audio system in 1997*-99 XK and XJ and 2000-06 XK and 2000-03 XJ. The BTH-JAG98 works in same vehicle but with Premium Audio systems.

Note: 2000+ vehicles with Premium Audio system (amplifier in trunk—See Fig. 23) require our BTH-JAG98. To be clear, 2000-03 XJ and 2000-06 XK premium audio (amplifier in trunk) requires the BTH-JAG98.



Fig. 23

- 2. Can I pair more than one device to Bluetooth module?
 - **YES**; pairing multiple devices is possible, however only one device can connect at a time. Disconnect first device to allow pairing to another device.
- Will I be able to use both music and Navigation apps at the same time?
 YES! When streaming and Navigating (e.g., Waze etc.); 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 streaming are muted
 until call is ended.

4. After installing and testing the system everything works, but there is engine "whine". (Increases with RPM) What can I do to fix this? Ensure all connections are snug. If powering module with cigar lighter: remove any charging (e.g., USB) device from cigar lighter port. Relocate accessory wire (see phone plug chart on page 5)

Install suitable noise filter.

- How can I listen to the CD changer or AUX device?
 To listen to CD's or AUX, tap play/pause button on remote or pause play on audio device touch screen.
- 6. Can I connect the BTH-JAG98 to the back of the radio? NO; the BTH-JAG98 harness plugs into the CD changer plug in luggage compartment or hatch and the module installs beneath armrest.
- 7. What is the vehicle application and where does audio module connect?

 The BTH-JAG98 is specific to the following Jaguar vehicles:
 1997*-03 (x308) (To CD changer plug in luggage compartment)
 1997*-06 (x100) (To CD changer plug in luggage compartment)
- 8. I hear clicking sounds as I use my device, how can I stop this?
 Go to device settings and disable touch sounds.
- My module does not always pair when entering vehicle. How to I remedy this?
 Module may not pair if already paired to another device (last connected device). Should this happen, check that no other device has already paired,
- 1D. Playback is distorted, how do I fix this?
 One likely cause for distorted playback is high volume setting on audio device. To fix, turn radio volume up to comfortable level, then lower volume on device until it no longer distorts.

turn ignition off and back on or disable/re-enable Bluetooth on device.

- 11. Callers can hear me, but I can't hear them- why?
 One likely reason is the Smartphone call volume is set too low. Please raise call volume level on your device to comfortable level.
- 12. Does this kit mute the radio (AM/FM) when calls are made or received? NO. This module does not mute the speakers if radio is in AM/FM mode. When phone rings, press "CD" button on radio to switch to Bluetooth mode. Your smart device will mute speakers if radio is in "CD" mode (Bluetooth mode).

13. Does it integrate to the steering control or does it have a separate pad?

Steering wheel controls do not apply. Use included remote to control select Bluetooth functions (skip, answer/reject calls, volume etc.)

14. Do I need to connect a microphone or does it integrate the factory installed microphone?

The included microphone must be installed. Optional wire harness may be available in the future to allow use of the factory mic. See product page for details

- 15. Does call number, song name etc. show on the display?

 NO. Radio does not display callers name, number or song text.
- 16. How to I install this module in a convertible (XK)?

The first step after removing the carpet panel is to move aside the hydraulic pump for the convertible top. Only two T3O screws on the front corners hold that in place, the back corners have rubber plugs that pull right out. My stereo rack was held in place with 10mm hex bolts on the four bottom corners, plus the stud post on the back. I found that with the hydraulic pump removed, I could tilt the rack back enough to access the connectors from under the CD changer without having to unbolt the stud post. I connected the pigtail coming from the CD changer to the unit, and the unit to the other side of the connector that had been plugged into the pigtail. To get the provided piggyback fuse holder to fit in the rear fuse box I had to grind away a little bit of plastic on either side, as it was too wide to fit otherwise. (slot #3)

- 17. No audio playback or plays on only one side, the Cd changer does not respond to "CD" button and there is no power to the Cd changer. What could be causing this?
 - Check that factory CD plug (See **Fig. 4**) fit snugly to harness connector (Refer to page 3-4).
 - Inspect the harness female connector pins (Fig.4). The base may need "adjusting" especially if factory male plug has become rigid and pins no longer "flex" especially if it has never been disconnected and over time has developed a memory position due to changes in temperature etc.

 To remedy the no power or "CD" button not responding issue:

 Use a flat head screwdriver (largest able to fit) and wedge between the pin base holder and flex (push) upward or as seen in Fig. 24.

To remedy the no sound on one of all sides

Repeat above on the other pin holder tab
Flexing both pin holder allows for a firmer connection with factory plug.
This is a one-time adjustment that will not have to be repeated and only applicable if factory plug has "hardened" over time.



Fig. 24

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

18. 'm experimenting annoying engine noise (alternator whine that increases with engine speed) is there a fix for this?

We recommend installing our in-line BT63-NF (See **Fig. 25)** noise filter. This plug-n-play noise filter fits between the radio harness and module. <u>Click here</u> to purchase.



Fig. 25

Disclaimer

- This product has no affiliation with Jaguar
- We're not liable for misuse of this product.
- Professional installation recommended

For help email <u>support@discountcarstereo.com</u>

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