CTS-HF

QUICK START INSTALLATION GUIDE FOR CADILLACE CTS/SRX WITH XM TUNER MODULE

Created July 19, 2016
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Requirements:
XM TUNER MODULE WITH OR WITHOUT SUBSCRIPTION

Introduction

If your 1st Generation CTS or SRX has an XM tuner module (with or without subscription), you should consider adding the CTS-HF module for Hands-free calls, music streaming, charging and more. From push-to talk button (with built-in microphone) conveniently installed on the dash, users may launch voice recognition application (Siri, Google Now, Assistant etc.) initiate phone calls, launch applications or XM playback (if subscribed). Thanks to the CTS-HF Kit, the **original radio, XM subscription is retained in addition to** Bluetooth features only available on newer cars.

Warning: XM Subscription not require; however, if subscribed that option remains active. An aux input jack is provided for non-subscribers. (Subscribers are exempt from the aux input jack)

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

Installation

Radio removal required to gain access to the connectors.

1. Using a panel removal tool, unclip and remove the top A/C vents panel (See **Fig. 1**)
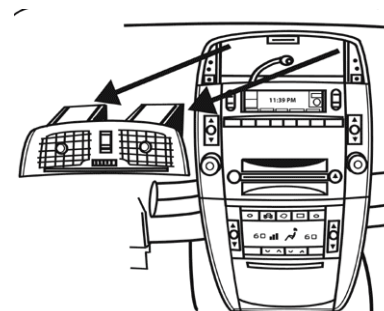

Fig. 1

2. Open ash tray and remove tray. Extract (1) 9/32" screw in tray cavity. (A Phillips head can be used to remove the screw)
3. Using a panel removal tool, unclip and remove A/C Control/ash tray assembly below the radio (See **Fig. 2**)
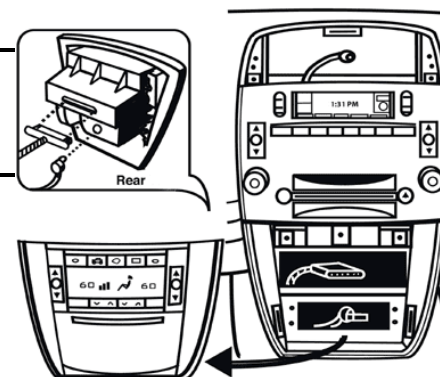

Fig. 2

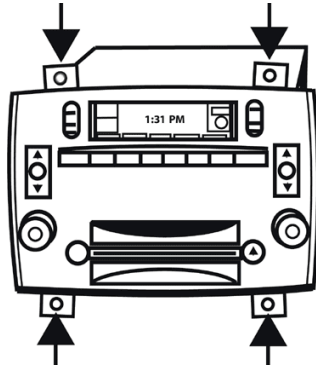4. Remove the (4) 10mm screws securing radio to the dash (See **Fig. 3**)

Fig. 3

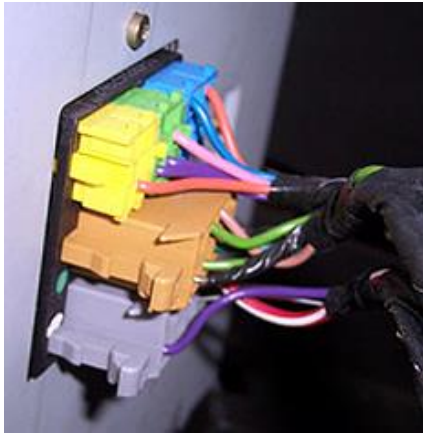5. Pull radio forward to reveal the connectors (See **Fig. 4**)

Fig. 4
Radio connectors

6. Disconnect factory 8-pin **gray** plug from radio (See **Fig. 4**)
7. Connect factory 8-pin **gray** plug to installation harness 8-pin connector (See Fig. **5**)
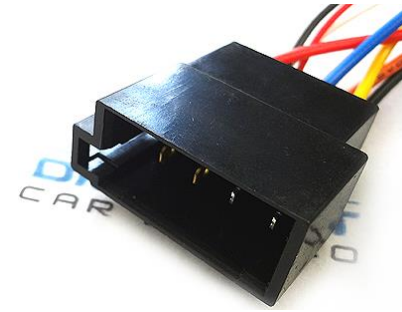
Fig. 5

8. Connect installation harness 8-pin plug (black) (See **Fig. 6**) to radio chamber vacated in step 6.

Fig. 6

9. <u>**XM subscribers**</u>:
   Connect installation harness right angle **3.5mm plug** (See **Fig. 6**) to module pigtail female jack as seen in **Fig. 7**
10. Connect installation harness straight **3.5mm plug** (See **Fig. 6**) to module 3.5mm input jack labeled "XM" (See **Fig. 8).** <u>Proceed to step 13</u>
11. **Non-subscribers**:
    Connect installation harness right angle **3.5mm plug** (See **Fig. 6**) to module pigtail female jack as seen in **Fig. 7**

Fig. 7

12. Connect included 3.5mm male to male audio cable (See **Fig. 9**) to module "AUX" input jack (See **Fig. 8**) and route to location where audio device will reside (within 3ft).

Fig. 8
Module

Fig. 9
3.5mm male to male cable

12V Accessory

Warning: Radio in Bose systems may not be able to provide enough current to power both amplifier and module in which case module will connect/disconnect at random in which case red accessory wire **Fig. 6a** must be used to connect module to an alternate location. If experimenting this issue, please follow alternate instructions below

13. From **Fig. 6**: <u>Disconnect</u> terminal ① from ② (default wiring). Connect terminal ② to terminal ③ (Terminal ① not used). Route and connect other end of accessory wire to ignition harness under steering column inside driver's lower-dash kick panel. Panel is supported by three screws at the bottom and three metal/plastic clips at the top. Tap accessory wire to ignition harness brown wire.

14. Plugin control/microphone (See **Fig. 10**) to "MIC" input on Module (See **Fig. 8**)

Fig. 10
push-button built-in microphone

15. Consider where to install push button/microphone. Keep in mind the control button must be within drivers reach and facing 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 from control /mic button

Microphone

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

The Bluetooth module includes a USB charging port. An optional USB extension cable kit is available. Should you decide to purchase/install, we suggest one of 2 connecting options:

A. **Flush to dash/panel requires drilling a ¾" hole in the dash**
B. **Flush with Support bracket** (use this option to mount USB terminal wherever your installation demands <u>without drilling</u>)

A. Flush to Dash or Panel (drilling required)

1. Drill a ¾" hole in the dash or panel using a step drill bit or equivalent (See **Fig. 11**)

Fig. 11
Step drill bit

2. Insert male end of the 3ft. USB cable (See **Fig. 12**) through ¾" hole created in step 1 and connect to USB port on module (See **Fig. 13**)

Fig. 12
Flush mount 3 ft. USB cable

Fig. 13
Module USB port

3. Snap USB head (See **Fig. 14**) to panel until flush with mounting surface (See **Fig. 15**)

Fig. 14
Flush mount USB Terminal

Fig. 15
Flush mounted to dash

4. Tuck and secure any extra wire from moving parts and test operation (See **Enabling the AUX** section below)

B. Bracket Mount (No drilling)

1. Locate a flat surface at location of choice within 3.2 ft. of radio and secure USB support bracket (See **Fig. 16**) using adhesive/tape or screws.

Fig. 16
USB mounting bracket

2. Insert USB cable through hole in bracket (See **Fig. 17**) and connect to Module USB port (See **Fig. 13**)

Fig. 17

3. Snap USB head to panel until flush with mounting surface (See **Fig. 18**)

Fig. 18

4. Tuck and secure any extra wire away from moving parts and test operation (*See Bluetooth Pairing and Connection*)
USB port supports charging only. Use your own USB charging cable or proceed to next step if charging is not required.

> **Warning:** Radio cavity in most vehicles may lack extra room needed to fit aftermarket equipment and because of that you will have to be creative when fitting this part. Extra length cables are provided to allow for flexibility

Secure module and proceed to section next section.

Bluetooth pairing and connection

This process is required upon initial. After initial pairing, the CTS-HF will automatically reconnect with the paired phone upon entering the vehicle.

1. Turn the vehicle ignition to "ON".
2. Red LED inside module will begin to flash
3. Access your Smartphone Bluetooth menu settings, and search (scan) for devices.
4. Select the G2 and click "Connect"

Bluetooth ⬤

Now discoverable as "King Solomon's iPhone".

MY DEVICES

BlitzBlueG2   Connected ⓘ
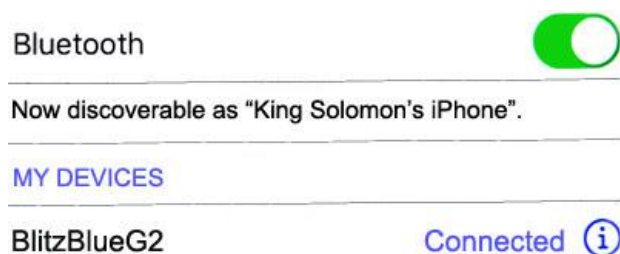
Note: Supports multiple phones but connects to only one phone at a time.

Warning: Caller ID and text display are **not possible in XM mode**. Operating Bluetooth device is by pressing the control button and your Voice Recognition application. Use the factory radio volume button to control playback level

Operation

1. Press "BAND" button on radio until XM is displayed
2. Use radio volume control to set playback level

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 3 times
Activate XM/AUX Playback*	**Press button 4 times**
Activate Voice Control	Press/hold button for 2 seconds
Switch out of XM Mode	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 (send call to Voice Mail)
Cancel outgoing call	Press button twice
Activate Voice Control	Press/hold button for 2 seconds

Notes:
1. If playback is distorted, adjust volume on Bluetooth device.
2. **To reset Module press and Hold button for 5 seconds**
3. On incoming calls, ring tone will play on car speakers
4. Bluetooth range is approximately 30 ft.
5. Voice command compatible with Siri, (Google Now, Assistant
6. * Push-button does not control XM/Aux functions. Use radio or aux device buttons for music selection and XM controls.

If successful go ahead and Reinstall the Radio

Frequent ask questions & troubleshooting

1. **My vehicle has XM Tuner module but subscription has expired. Will the CTS-HF work without subscription?**
   YES. In addition, an AUX input is provided by which users can connect and play auxiliary audio devices (Mp3 Players, iPod, DVD, iPad etc. **Auxiliary input is not available to XM Subscribers.**

2. **I'm not the original owner and don't know if vehicle has XM Tuner. How can I find out without ripping it apart?**
   Turn Radio "ON". Press "BAND" button repeatedly to cycle through AM/FM/CD/XM1/XM2. If only AM/FM is displayed, vehicle does not have the XM Tuner Module and not compatible.

3. **Does the CTS-HF work on all radios?**
   Works CTS Navigation and non-Navigation radios and non-Navigation SRX. **Does not work on SRX Navigation radios.**

4. **Can I control my Smartphone music from the radio buttons?**
   NO; you **must continue to use Phone built-in controls or the Bluetooth control button and/or voice commands to operate the device.** Factory radio volume button is used to set playback level.

5. **Does the radio screen display phone number and song name?**
   NO. Smartphone screen must be used to display song and number details.

6. **How to I listed to XM?**
   Press BAND or XM button on radio to enter XM mode (if not already) then press control **button 4 times. These steps also apply to play Auxiliary device (non-subscribers only)**

7. **Where is the best place to install the control button/mic?**
   We found that having the control button/mic mounted higher on the dash worked best, but users can experiment with different location and decide which works best for them.

8. **Will the radio mute when I receive or make a phone call?**
   This system will not mute audio playback unless radio is in Bluetooth mode. If listening to AM/FM, the radio will not mute. In addition, radio must be switched to "XM" (Bluetooth Mode) so caller can be heard on car speakers.

9. **My second phone does not pair or find the Bluetooth module?**
   In order to pair another phone make sure no other phones are connected. Once Bluetooth is turned off, the device will be free and ready for pairing.

10. **Will I be able to use the USB port to connect and play music from flash drives?**
    NO. The USB port is for charging only (1.8A). Devices requiring more charging current will not charge from this module.

Disclaimer
- This product has no affiliation with GM
- We're not liable for misuse of this product.
- We recommend professional installation

For help email support@discountcarstereo.com