

# How Bluetooth Car Stereos Work



by Jessika Toothman

Bluetooth car stereos are commonly integrated with Bluetooth-enabled cell phones, and when the two devices are within range of each other, they can communicate in a number of interesting ways. Depending on the particular models in use, it may be possible to make and receive calls without even pulling out your phone or pushing a single button. You can even hear the calls through the vehicle's speakers. Other models may require a few button-pushes, but usually with more ease than plodding through cell phone menus. You may also be able to view other information such as the phonebook, incoming calls and call status on the stereo panel. When the phone rings, the speakers will automatically turn down the volume on any music or movies that are playing while you chat on the phone and resume when the call is over.

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Some [Bluetooth car stereos](#) can store your phone's entire address book and other contact information; others have built-in phones which copy all the information off your phone's SIM card and take over the functions for calling. Your cell phone is disconnected from the piconet, not only saving its battery power but also providing a stronger connection.

These innovations come almost as much out of necessity as convenience – at least for people who can't stand being in the car without making a quick phone call. Many places now enforce laws limiting the use of cell phones while driving, and Bluetooth car stereos are one way to bridge the middle ground.

Besides augmenting your ability to connect with the outside world through phone calls, Bluetooth car stereos can also enhance the environment inside a vehicle. Transmitters can be used to stream music from iPods, MP3 players and satellite radio straight into the stereo without creating a mess of tangled cords. Some car stereos can display video on full-color LCD displays, although this usually isn't an option when the car is moving. If you have some passengers in the back who could use a movie to settle down, lots of Bluetooth-enabled [Android car stereos](#) also come with the hookups needed to turn your vehicle into a mobile entertainment center. Connections for other devices like GPS navigators and USB flash drives are among other common fixtures.

And with each passing year, the technology grows and evolves. Comparing Bluetooth-enabled car stereos to cassette-enabled car stereos already seems like a throwback to the Middle Ages, so who knows what the future has in store.

source: <http://electronics.howstuffworks.com/gadgets/automotive/bluetooth-car-stereo.htm>

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# How to Install the Android Car Stereo by Yourself



Getting [Android car stereo](#) installed professionally will cost you a lot of money, and you've likely already spent quite a bit on purchasing the equipment. That's why installing it yourself might be a good way to go. It's entirely possible to do it all yourself, as long as you have the proper tools, wiring diagrams, and instructions. Depending on what you've purchased, it may also entail a significant time investment.

One very important point to remember: Always disconnect the negative connection on the car's battery before you do any type of work to avoid shocking yourself or damaging your new equipment.

Installing coaxial speakers is fairly simple. These involve removing the front or rear factory speakers and simply swapping

in the new ones while making sure the wiring is correct. Component speakers are a bigger job. Since you're going to be putting multiple new parts in your car, like tweeters and woofers, this could involve some cutting or drilling into the doors or A-

pillars. In some cases, you'll need to be able to take apart your car door to accomplish this. The job may also involve some soldering. In addition, adding subwoofers to your car almost certainly means cutting holes in the trunk or rear compartment.

If you're adding a new stereo receiver, that means you'll need to remove the old one – usually by removing the bolts or even using special tools – then properly connecting the wires to the new [head unit](#). Again, there may be wire cutting and soldering involved here, too. Your dashboard might also need to be modified to accommodate the new stereo if it's a different size.

As a general rule, amps should be installed at least 3 feet (0.9 meters) from the receiver to prevent interference. The most popular method involves installing them under the seat or in the trunk. You'll need to wire the amplifier into the car's electrical system to power it, which can be complicated.

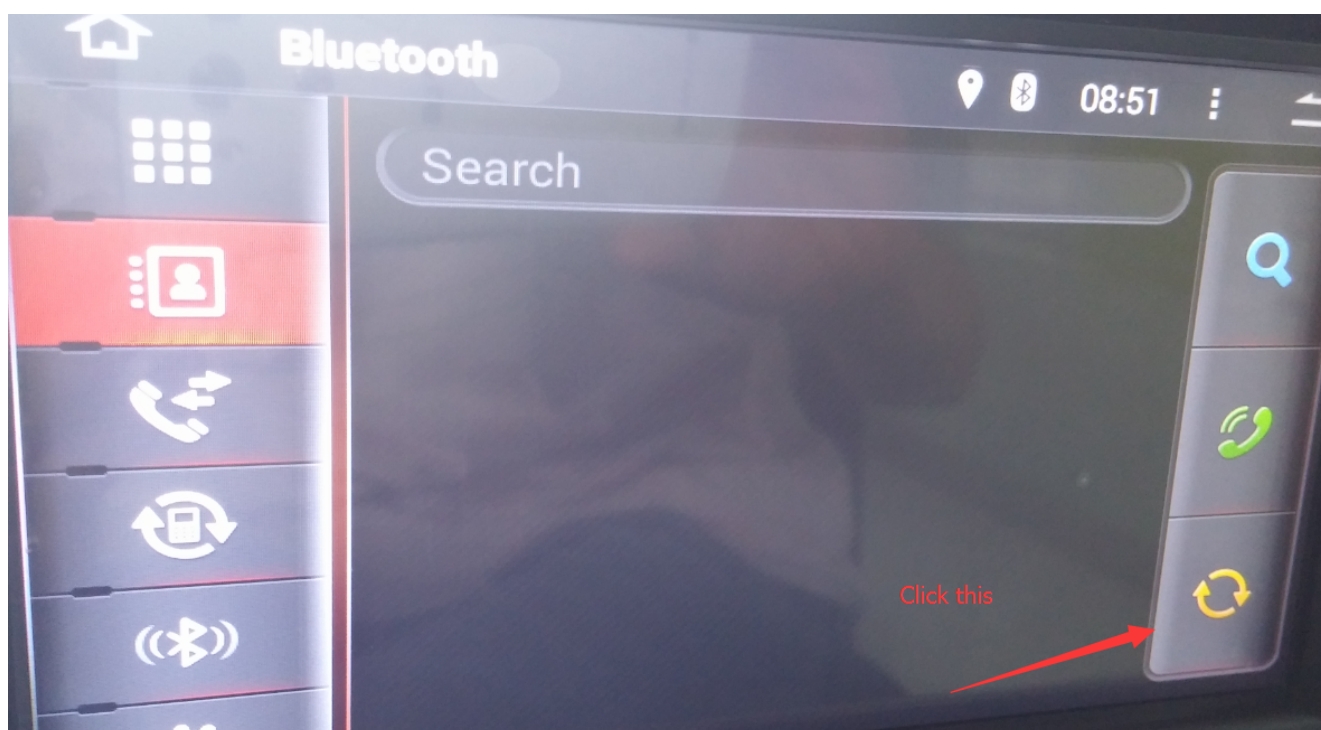
So what could go wrong if you install things incorrectly? A lot of things, actually. The speakers could be out of phase and sound distorted, you could cut the mounting point incorrectly and leave a gaping hole in your car door or you could wire it wrong and short out your electrical system. You run the risk of permanently damaging your car and your new stereo equipment if you do this wrong. In other words, unless you have the right tools, the right instructions, and the right experience, it may be worth the extra cost to have a professional install it.

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# FAQ for Android Car Stereo Amplifier

1. How can I populate my address book's contacts into the [Android car stereo universal](#)?

**A:** For downloading the address book's contacts from your phone to the radio: firstly, you need to pair your phone with the Android head unit, then please click the contacts icon and search your contacts like the following picture:

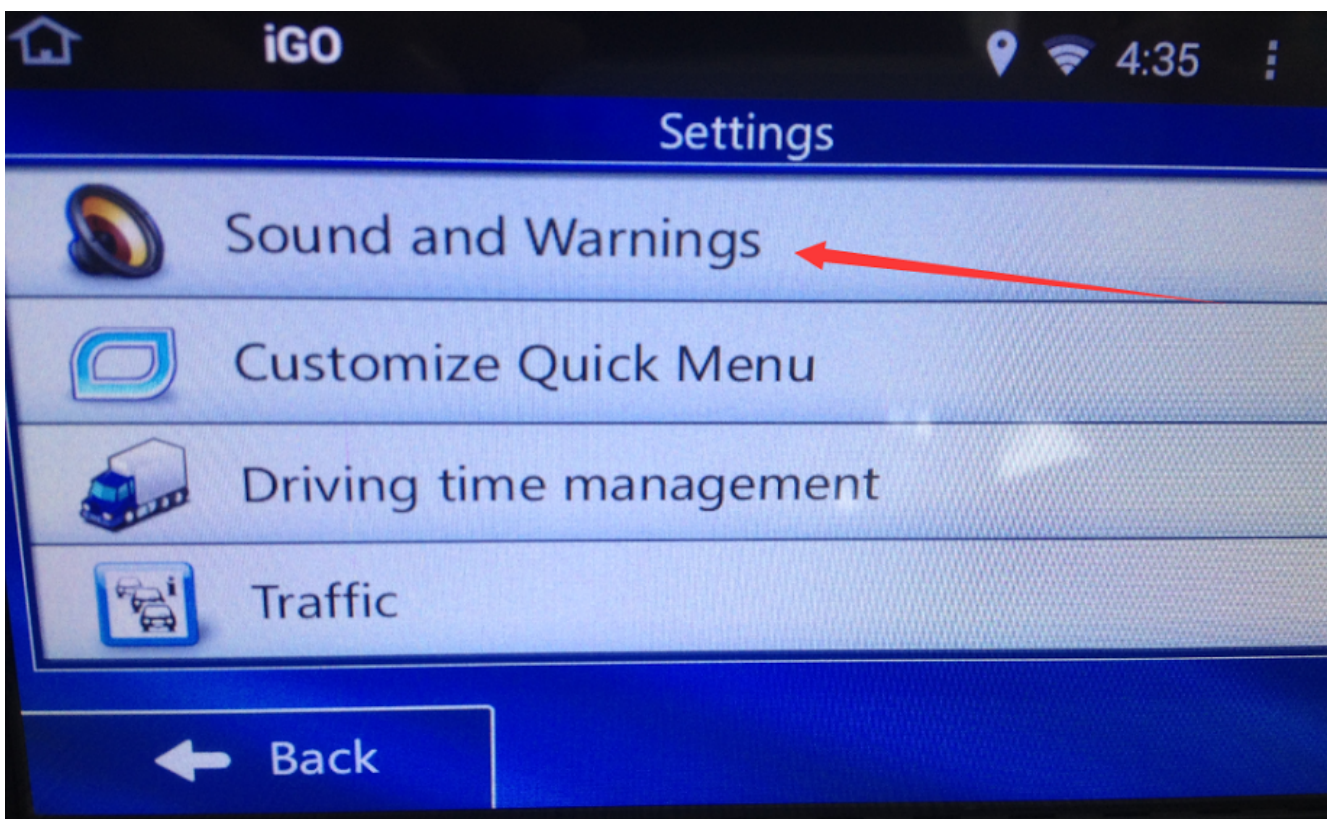
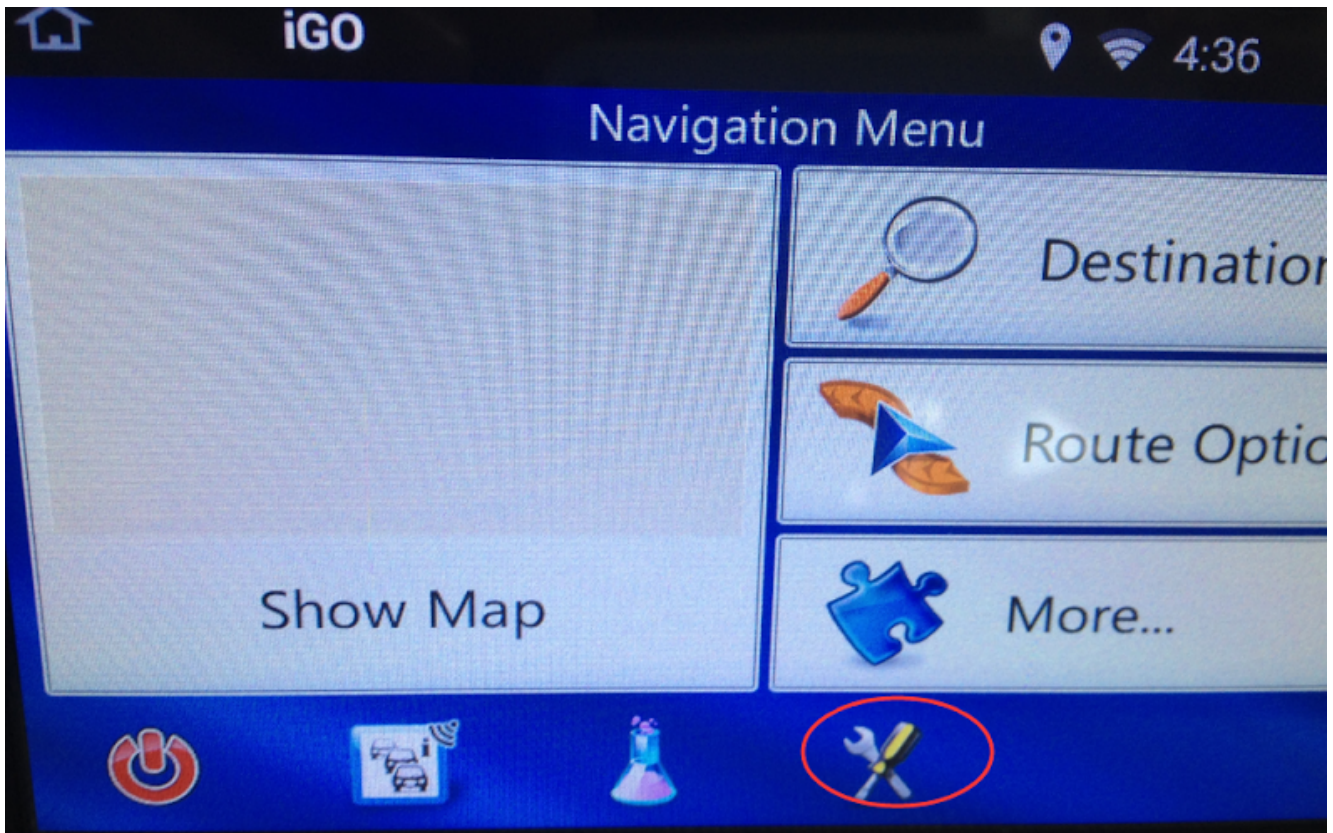


Please make sure that you use the built-in contacts in your phone, otherwise it can not be searched. Also, if your smartphone runs Android 5.0 OS or above, please allow all the submissions in your phone when the stereo searches the contacts.

2. After installing the car DVD player, I can't hear any sound through the speakers or the Bluetooth. The music is attenuated but no phone or GPS instructions can be heard. Is there a hidden menu to give more volume to GPS and Bluetooth?

**A:** Normally, we don't have hidden menu to give more volume. An

d for setting the GPS app sound ( we pre-installed the IGO free copy version ), please check the setting below:



You can re-install the IGO app from our SD card to check whether it would

help or not. Besides, please enter the settings=>GPS, make sure that you turn on the **GPS monitoring**. You can turn up the GPS mixing ratio so that the GPS sound would be louder.

As for the Bluetooth issue, if you make the phone call via Bluetooth, please well close your car windows and doors, then turn the volume of both your phone and the head unit to the middle level. You can also enter the factory setting ( the password is 126 ), and check the BT setting.

3.In case of the extra mic, how can I increase the volume ? I don't find any possibility to adjust the mic volume in the car audio player.

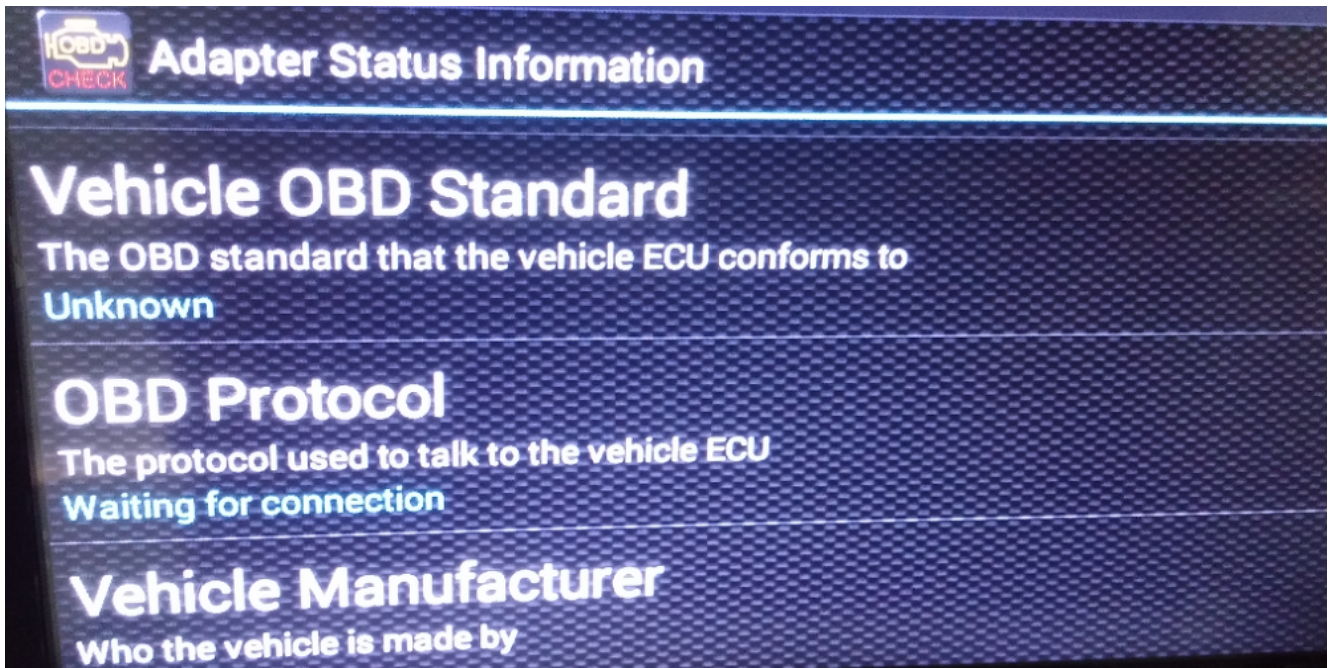
**A:** Please use the extra mic and increase the car radio's volume.

4.I'm not able to get torque to recognize that Bluetooth is on . Therefore, I can't connect Bluetooth to the OBD. I can connect to it from my phone but not from the [Pumpkin Car Head Unit](#). Is there something I can do to get this to work ?

**A:** For pairing the OBDII, you need to know the protocol of your car and select the correct protocol in "Torque". Followings are the whole instruction:

□Please enter "Bluetooth "application, then set the pairing code of the radio to the same one as the OBDII scanner'Generally , it would be 0000 or 1234. ( please try both )

□Then please open the built-in torque, choose the OBDII scanner MAC address in the application setting and choose your car protocol.



5. How do I change the default music app ?

**A:** Since the [car DVD player Bluetooth](#) is based on Android 4.4, you can download other music player apps like Spotify in the built-in play store ( need Wifi or other Internet source ) and install it on the head unit.

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