

# How to Improve the Sound Quality in Your Car

When driving, a car can be a great place to enjoy music, but many people still put up with marginal sound quality that they'd never tolerate at home. Today, we will give you some suggestions on how to improve the sound in your vehicle. Follow these tips, you might not have to live with the bad sound anymore.

## **Tips 1 : Add an amplifier.**

Maybe you'll say "My factory stereo puts out 200 watts, and that's plenty of power." But there's a huge difference between 50 watts peak power per channel produced by your [Android car stereo](#) and 50 watts RMS from an outboard amplifier. A separate amplifier will provide more clean power than any car stereo, and that'll make a night-and-day difference in sound quality. Your system will sound better, whether you listen to Mahler at a conversational level or Megadeth turned up to 11. An amplifier is essential to getting great sound in your car.



### **Tips 2 : Build a better sub box. Or buy one.**

If you're building a sealed subwoofer box, make sure it's sealed properly. Air leaks can really hurt your sub's performance.

If you're using a ported box, make sure you've got the right sub in there. You can destroy a sub that's designed for sealed box use by driving it hard in a ported enclosure. Also, it's important to build a box with the correct interior volume for the sub you've picked out. A mismatch can result in poor performance or a sub fatality. You can also avoid all of these issues by buying a premade enclosure that'll work with your subwoofer.

### **Tips 3 : Select a lower level of compression for your music files.**

Though you can store more music files in your music player if you use greater compression, and they'll sound OK when you're listening through earbuds. You'll lose some high-and-low frequency information when you compress your music, along with some of the details that make your music interesting. And, on a good car audio system, you can really tell that something's missing.

Don't settle for the default setting when creating your files. If you want to use your iPod, smartphone, or MP3 player in your car, try using as little compression as possible. The higher the bit rate, the better your music will sound through your car's system.

Source: [Crutchfield.com](http://Crutchfield.com)

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## [A guide to Android Car Stereo Wiring Harnesses](#)

By Dave DeLamere

### **Getting a handle on all those wires**

While they can look like some sort of multicolor pasta dish, wiring harnesses help you connect your new [Android car stereo](#) to your vehicle's wiring. In this article, we'll explain the different types of harnesses and adapters and how they're helpful when installing your new car stereo.

### **Car stereo wiring harnesses**

Each vehicle has a different wiring story. Sometimes you have a choice of harnesses that will work in your car. Other times, you might need more than one harness to complete the installation.



## **The basic wiring harness**

These represent the most common type of wiring harnesses. They offer connections for the power and speaker wires. They can also include connections for the new stereo's ground and illumination wires.

Using the wiring code the adapter manufacturer supplies, these harnesses enable you to match up the wires for each connection to the new stereo's wiring harness. Once that's done, you plug the other end of the harness into your car's wiring connector (the one that was plugged into the factory radio).

## **Specialized wiring harnesses**

Vehicle audio systems, electrical systems, and convenience features have come a long way. So, the harnesses had to evolve to handle the complex wiring and data information that modern cars use.

### Connections at a distant location

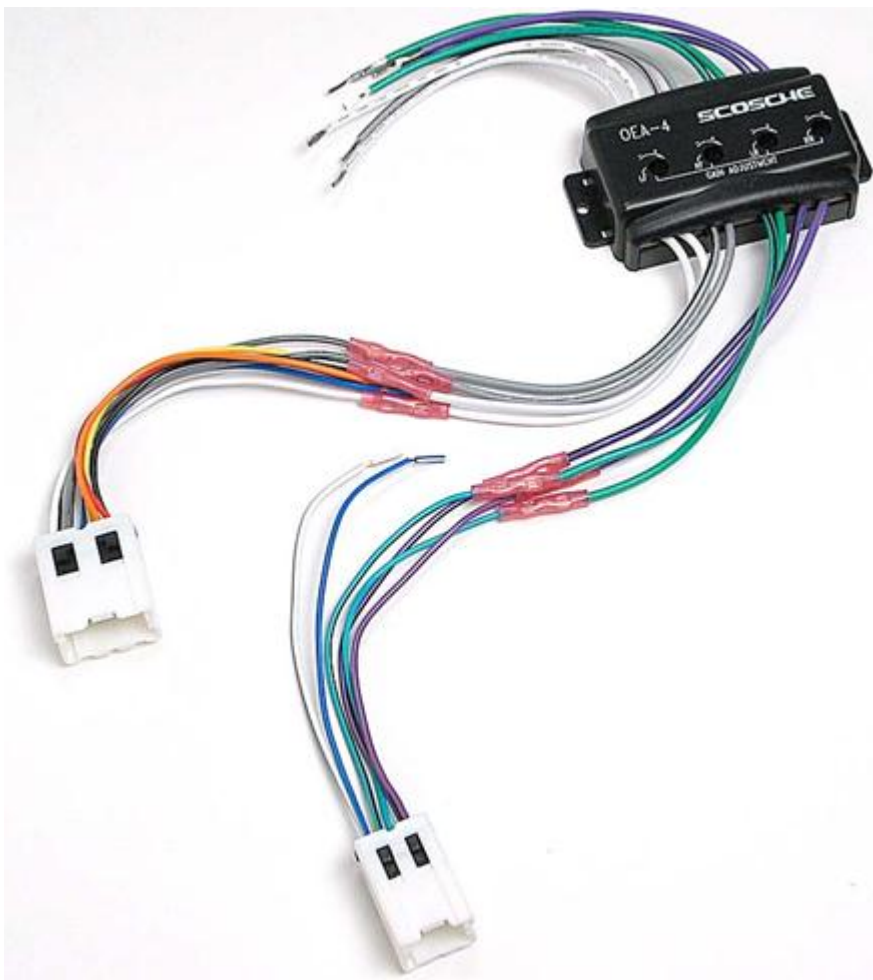
In some vehicles, you need to plug in the harness somewhere other than behind the radio. A great example is a common version of the Ford Taurus, where the factory amp and radio tuner are located in the vehicle's trunk. These harnesses often consist of a basic wiring scheme that has wires long enough to reach

the necessary destination. In the case of the Taurus, the adapter includes 20' of speaker wire to reach the trunk.

Hook up your new radio by bypassing the factory amp

A vehicle's stereo system sometimes has a separate amplifier, and when installing a new receiver, you generally need to connect the new [Bluetooth car stereo](#)'s speaker wires to the factory amp's output section. These amp bypass harnesses allow you to use the power from the new car stereo to drive your speakers and not rely on factory power.

These harnesses tend to be more affordable than amplifier integration adapters (below), but can involve more work if the amplifier is in a remote location, like under a seat or in the trunk.



Keep the factory amp in play

Many wiring harnesses can let you keep your vehicle's factory amplifier when replacing the stock radio. They include connections that directly tie the outputs of your new car stereo into the factory amplifier's inputs. So, you'll be using the factory power for your speakers, instead of the power from your new radio.

These harnesses can sometimes shorten the installation time, since wires often do not have to be run to the factory amplifier location, but they tend to be more expensive than the bypass harnesses above. You may also see a module connected in these harnesses – they include adjustments that enable you to properly integrate your stereo's speaker outputs and the factory amp's inputs to keep your music clear.

### Retain those important audible safety alerts

In many vehicles, the audible safety alerts are integrated into the factory radio. When you replace that radio, these warning sounds are lost, and that's dangerous. Thus, these vehicles require a special harness to keep these audible tones working when you install a new stereo. Fortunately, these harnesses also take care of all of the basic stereo connections.

### Hang on to factory conveniences you love

Today's cars include an ever-growing number of features built into the factory radios, which complicate wiring connections immensely. They can include things like Ford SYNC®, GM OnStar®, Chrysler Uconnect®, and steering wheel audio controls for the stereo and your phone.

When you replace the factory radio in these vehicles, a more-robust type of integration adapters is needed in order to have these features work with your new stereo.

Some integration adapters, like the iDataLink Maestro, even enable you to download programming for specific receivers and vehicles so you can keep as much of the factory functionality as

possible.



Packages that connect and secure your radio

There are also vehicles that not only have a complicated wiring scheme, but they also have a unique dash layout. Integration adapters for these vehicles include both the wiring connections and a custom dash kit to get your new receiver installed.

These generally include just about everything you need to get the receiver connected, mounted in the dash, and retain many of beneficial factory features, such as electronic climate controls.

## **Additional adapters for car stereo installations**

Sometimes, a wiring harness won't take care of everything and you need additional adapters to install a new stereo. They can help with a specific connection or allow you to keep a factory feature.

Antenna adapters

Many factory AM/FM antenna connectors simply plug into the antenna port on the rear of a new receiver. However, some vehicles have an antenna connector with a different shape or are part of an amplified antenna system. In these cases, an antenna adapter becomes necessary for your radio installation so you can keep your AM/FM stations playing.

Steering wheel audio control adapters

Modern vehicles often include steering wheel controls to let you safely operate your factory audio system without taking your hands off the wheel. These functions include volume controls, track forward/back, and hands-

free calling controls. In most cases, those controls won't work after replacing the factory radio. Thankfully, steering wheel control adapters help integrate these controls with many new stereos, so you can keep using these handy controls with your new stereo. Besides, there are many aftermarket products like [Pumpkin car stereo](#) support steering wheel control function.



## Speaker wiring harnesses

While they don't directly help with car stereo installations, the speaker wiring harnesses we offer let you use the factory speaker wires for your new speakers, just like car stereo harnesses. Their plugs match the factory speaker wiring plugs in the vehicle, and the other ends slide over the new speakers' terminals. That way, you don't have to run new wire from the radio to all the speaker locations in your vehicle or cut factory wires.

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# 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>

