# How to tell the price difference between car stereos? -Lesson 1



## 1. Check on the CPU

The core of something is always a major part and the most valuable one. See the CPU of the car stereos that attracted you, is it Quad- core, Six- core, or Octa- core? Trust me, it makes a huge difference whenever you start up your infotainment system or tried to run multiple APPs at the same time. Normally, less number of cores leads to slower running

speed, but there is always an exception if your in-dash media player is Quad-core's but with surprisingly fast speed, be alarmed, the system may not be held too long before went corrupt because of the overheat CPU.

## 2. The storage of RAM and ROM

This is another big factor that causes the price difference. Random-access Memory (RAM ) is readable and changeable, it keeps the working data of an infotainment system and supports the running of APPs from your smart phone, which means it is the storage of RAM that controls how many APPs you can run(both front end and back end) smoothly and quickly at the same time. Bigger storage room the RAM has, faster running speed APPS will be.

Read-only memory (ROM) is also known as Flash Memory, it saves part of the storage for the running of smart phone programs and the rest for storing your videos, photos, music, etc, which can all be deleted and changed any time. Things you stored only occupy the space of ROM instead of RAM, so the storage of ROM does little influence on the running speed, the biggest influencer is RAM. ROM only matters to how many videos, music, APPs you can keep.

What can I say, bigger storage, better experience? But it depends on your demand.

I am planning to talk about the main functions a car head unit shall not miss the next lesson.

Or maybe you can suggest something else?

# [What to understand before shopping for a car stereo?](#)

Infotainment car stereos are taken into account a vital purchase for many discerning drivers. With numerous amusement choices, versatile functions, and smart operation, infotainment radios are increasingly purchased year by year. However, with a large number of choices on the market, many people are drowning in the explosive information. Here is some selected guide for you.

## 1. Which kind of in-dash car stereos to choose?

Pick the right KIND!
-Higher Height [Double DIN head unit](#): Comes with a screen, amplifier, and a DVD player. Takes double the size of a single-DIN. (Make no mistake on size selecting before buying any.)

-Lower Height [Single DIN head unit](#): Only half the size of a double-DIN player, it delivers virtually the identical audio quality but with totally different functions. As before, check the size initially.

## 2. How to judge the audio quality?

Audio quality is very important whether for video or music. Power output matters the most at this point: general output up to 4 x 45W is enough for playing rock and roll, R&B, or light music. Make sure you take a deep look at the audio output. If the sound quality is as great as standalone CD-players, then it's simple to suggest it is the dearer.

## 3. How big the screen size ought to be?

Car stereo screens on the market are in several sizes. As a rule of thumb, the device ought to provide high-resolution output for clear visibility and a physical size that matches with infotainment systems on the market while not limiting vision. There are two screen types: analog and digital high-definition. the overall analog screen is 240 x 240 or 480 x 240 pixels, but an HD screen is 800 x 480 pixels or higher. In terms of screen sizes, 7.0-inch screens are the foremost common size, typically on the market with 800 x 480 resolution for a decent balance of quality and affordability.

## 4. Which media formats are supported?

Various media formats exist, together with audio, video, and film formats. It's necessary to test file format compatibility for your multimedia system. Some models have the power to play DVD-R and DVD-RW (available on GearBest) together with any other purchased movies you got. This thought additionally extends to audio file formats and disc formats, e.g. CD, CD-RW, CD-R, and MP3.

## 5. Is a car infotainment media equipped with GPS navigation?

YES, GPS navigation is one among the most convenient car infotainment options, with the monitor providing a visible map of the route, whereas the car stereo speakers deliver verbal turn-by-turn directions.

## 6. Am I able to connect my USB devices or nonvolatile storage cards?

A Coyote State card will hold an outsized quantity of knowledge for its tiny size. This makes it a convenient data-storage medium for your favorite movies and music Many optical disk players have a Coyote State card slot, providing you with considerably additional multimedia system freedom.

## 7. Can I buy anything I like in the box?

There's nothing worse than paying lots of cash for a vehicle optical disk player, preparing to put in it, solely to find you would like to shop for additional elements like TV tuners, wires, brackets, or different things. A number of the additional common accessories are shown on the associated image below.

### Conclusion

Whether you decide on a posh [car stereo](#) optical disk player with several options or a comparatively straightforward model, your driving expertise will definitely be increased and additional convenient. An infotainment car stereo is A particularly sensible travel companion on long journeys with family or friends, permitting your passengers to observe their favorite movies or programs whereas on the go. [Pumpkin infotainment car radio](#) understands this and provides an intensive vary of leading brands and models at a cheap cost — all backed by extensive [warranties and guarantees.](#)

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# [What Is OBD-II? How OBD-II work?](#)

Onboard Diagnostics II ([OBD-II](#)) is a standardized system that onboard computers in cars and trucks use for self-diagnostics and reporting. This system grew out of Californa Air Resources Board (CARB) regulations, and it was implemented with specifications that were developed by the Society of Automotive Engineers (SAE).

Unlike earlier, OEM-specific OBD-I systems, OBD-II systems use the same communication protocols, code designations, and

connectors from one manufacturer to another. This allows a single OBD-II scanner to provide access to the data that these systems are capable of providing across all makes and models of vehicles produced since 1996, which was the first model year that OBD-II was required across the board.

## Types of OBD-II Scanners

There are 2 basic classes of OBD-II scanners that you'll stumble upon.

## Code readers

OBD-II code readers are sometimes cheap, essential devices which will scan and clear codes from any vehicle that's equipped with OBD-II. These devices have some inherent limitations therein they sometimes lack any data on manufacturer-specific codes and provide restricted (or no) access to different knowledge.

Scan Tools

OBD-II scan tools are dearer, and that they offers a range of various options. Scan tools could give a lot of access to or data concerning manufacturer-specific codes, giveintensive, customizable access to measure and recorded knowledge and provide advanced troubleshooting data, which can be seen in the car stereo screen

## What will an OBD-II Scanner Do?

The practicality of associate degree OBD-II scanner depends on whether or not it's a basic "code reader" or a a lot of advanced "scan tool." Basic code browseers will solelyread and clear codes, whereas advanced scan tools may also read live and recorded information, offer in depth information bases, offer access to bi-directional controls and tests, and alternative advanced practicality.

All OBD-II scan tools supply some basic practicality, which incorporates the flexibility to browse and clear codes. These scanners may also supply the flexibility to testunfinished, or soft, codes that haven't activated the check engine light-weight however, and supply access to a wealth of knowledge. information from just about each devicethat gives associate degree input to the aboard pc is viewed via an OBD2 scanner, and a few scanners may also founded custom lists of parameter IDs (PIDs). Some scanners additionally offer access to readiness monitors

and alternative data..

## How Do OBD-II Scanners Work?

Since OBD-II systems are standardized, OBD-II scanners are comparatively straightforward to use. all of them use the identical instrumentality, that is outlined by SAE J1962. Basic scan tools operate by merely inserting a universal plug into the OBD-II diagnostic instrumentality in a very vehicle. Some advanced scan tools conjointlyembrace keys or modules that augment the universal instrumentality so as to access or move with OEM-specific info or controls.

## Choosing the correct OBD-II Scanner

If you own a automotive that was engineered when 1996 and you are doing any quite work on that, either to save lots of cash or simply as a result of you get pleasure fromobtaining your hands dirty, then associate degree OBD-II scanner may be a valuable addition to your tool case. However, that doesn't mean that each grounds mechanic ought to head out and drop $20,000 on a high-end scan tool from Snap-on or mack.

Do-it-yourself mechanics have plenty of less costly choices to explore, therefore you'll need to test them out before you create an acquisition. as an example, plenty of components stores can truly check your codes at no cost, and you'll be able to realize plenty of diagnostic info at no cost on the net. in a very heap of cases, which may be all you wish.

If you would like a touch additional flexibility, there are variety of low-cost scan tool choices you'll be able to take a look at. Dedicated code readers that conjointly giveaccess to PIDs are one choice to study, and you'll be able to typically realize a good one for beneath $100. an alternative choice, notably if you have got a good golemsmartphone, is associate degree [ELM 327 Bluetooth scanner](#), that could be a cheaper path to primarily the identical practicality.