

[Installation] Pumpkin 7" Single Din Bluetooth Car Stereo with Flip Screen Navigation install on Volvo XC70 year 2002

Here, we show how to install the 7-inch single din flip-out screen car radio in the Volvo XC70 year 2002. This is a universal car radio, it integrates with the RDS radio, Bluetooth BT hands-free calling and music streaming, GPS navigation, phone mirror-link, steering wheel control, Wi-Fi, and compatible with external USB, SD card, the Android Auto/Apple CarPlay USB Dongle, DAB+ digital radio box, OBDII car scanner device, and backup camera. The display car radio is an Android 9.0, but Pumpkin has already released the Android 10 version car radio now. You can search on the Pumpkin official website.

See more information about [Pumpkin 7" Single Din Bluetooth Car Stereo with Flip Screen Navigation](#).

Feature rich upgrade for older cars

RAM
4GB

ROM
64GB

Android 9.0

CAR STEREO



I have had this [Pumpkin 7" 2 Din 8 core car radio](#) installed in my 20-year-old Focus for a couple of months now. It's double din but it seems Fords version of double din is slightly different. I had to 'modify' the dash bezel to get it to fit, that is nothing against this device.

For the most part, it's been excellent, I'm far from an expert in installing something like this but have it running with all bells and whistles (Bluetooth, wifi, backup camera, etc.). Having it display battery voltage on the main screen has been incredibly valuable to learn and understand the power consumption.

I don't believe you can use this without the engine running for too many minutes before it bleeds too much juice from the battery, having a visual display of the voltage is so useful, it could just be my car and/or battery but it should be no

surprise it's more power-hungry than what was originally intended for my car. I have yet to look into possibly a larger battery to counter/accommodate it.

The other day the screen couldn't seem to make it minds up on brightness level and flicked levels every 10 or so seconds, that hasn't happened since, but it happened.

I am suspecting my starter motor may be on it's way out as the 'instant on' feature is proving somewhat unreliable whereas initially, it worked great. Again, I have a 20-year-old car and new to this type of install, to me, there may be calculable reasons for the above and I do not believe it's this device but rather my lack of knowledge and understanding. I say this as a caution to others, maybe get a professional to install and advise!

Other than that I'm really happy with it and it's a fraction the cost of a bigger name brand with all or more features and it's Android so massive potential in customization.

As for the design, having an actual volume dial was a key factor in me choosing this, the physical Home and Back buttons have also proven superior to the touchscreen options. One tiny gripe is the black outer bezel sticks out from the screen a touch too much, so when using the touchscreen on the top edge is a tiny bit awkward, but it's not that big a deal. I'm a bit of a fiend with devices, in hindsight, I would have liked 8 gigs of RAM, again not that big a deal.

Overall I very much recommend this device.

The difference between Bluetooth 4.0 and 5.0

What is Bluetooth?

Bluetooth is a wireless technology standard used for exchanging data between fixed and mobile devices over short distances using short-wavelength UHF radio waves in the industrial, scientific and medical radio bands, from 2.402 GHz to 2.480 GHz, and building personal area networks (PANs).

Bluetooth 5.0 is the latest version of the Bluetooth wireless communication standard. It's commonly used for wireless headphones and other audio hardware, as well as wireless keyboards, mice, and game controllers.



The comparisons

Bluetooth 4.0 and 5.0 do almost all the same things, but they have their own features and differences.

Speed

Bluetooth 5.0 is faster than Bluetooth 4.0. The speed of Bluetooth 5.0 is 2Mbps, twice the speed of the Bluetooth 4.0 of about 1Mbps.

Range

Bluetooth 4.0 supports 50m in outdoor range and 10m in the indoor range, while Bluetooth 5.0 supports 200m in Line Of Sight path in the outdoor environment and 40m in the indoor environment.

Power requirement

With the low energy designed, Bluetooth 5.0 uses less power on your device compared to the Bluetooth 4.0.

Message capacity

The Bluetooth 4.0 has a small message capacity of about 31bytes, which gives just 17 to 20 bytes for actual data payload. While the Bluetooth 5.0 with a large capacity of 255bytes gives more bytes for actual data payload.

Bluetooth beacon

With Bluetooth 5.0, beacons have become more popular due to the speed and range increase while with Bluetooth 4, they are less popular due to the less speed and range as well as low message capacity of 31bytes.

Support for IoT devices

Bluetooth 5 easily meets the requirements for IoT devices with its good range and increase in speed while Bluetooth 4 does not due to its low speed and short working range. That means IoT devices will work well with Bluetooth 5 and utilize all its features properly.

Compatibility

Bluetooth 4 works best with devices that are compatible with

version 4 series but will not work with devices that have Bluetooth 5 while Bluetooth 5 is backward compatible with v1, v2, v3, v4, v4.1 and version 4.2 but will not utilize all the features of Bluetooth 5.

All in all, the car radios with Bluetooth 5.0 can meet the more requirements and work better. Besides, [Pumpkin 12.8" Tesla Style Universal Car Stereo](#) possesses the Bluetooth 5.0 feature.
