

How to install a Nav Unit into a Non Bose 1LT trim Corvette

You will need to remove the Radio Surround console in order to access the radio you are replacing with the Navigation Radio Unit.

There are many tutorials on line, but it's fairly straight forward. YouTube also has some videos showing how to remove the radio surround.

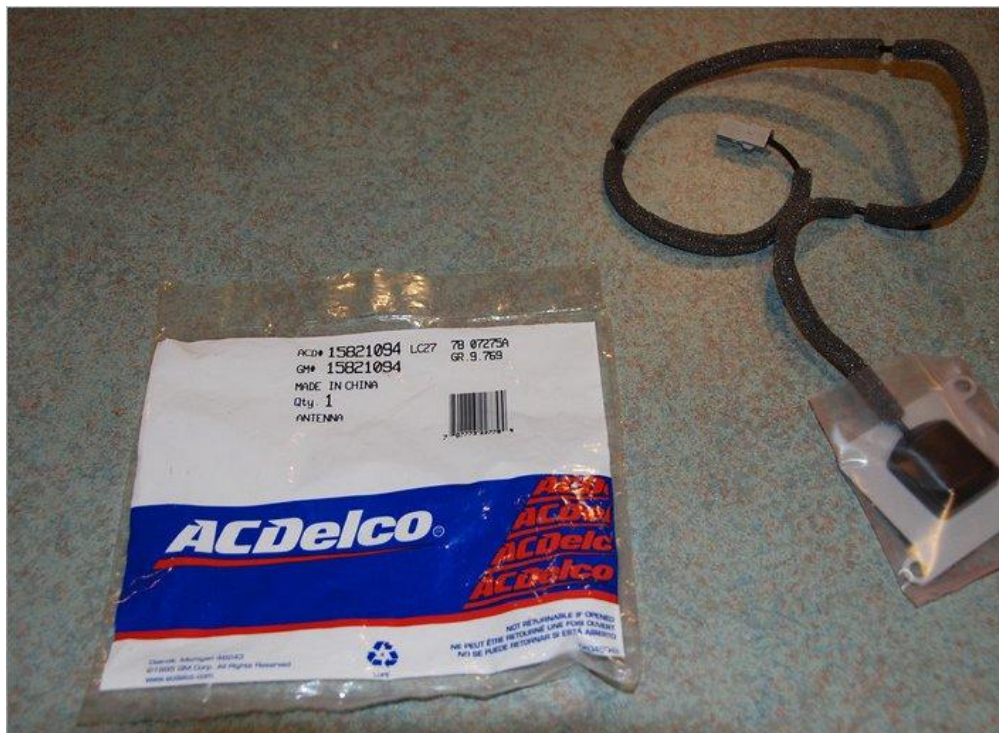
Here is a link to removing radio surround console

<https://www.youtube.com/watch?v=xDJTQWj6XFE>

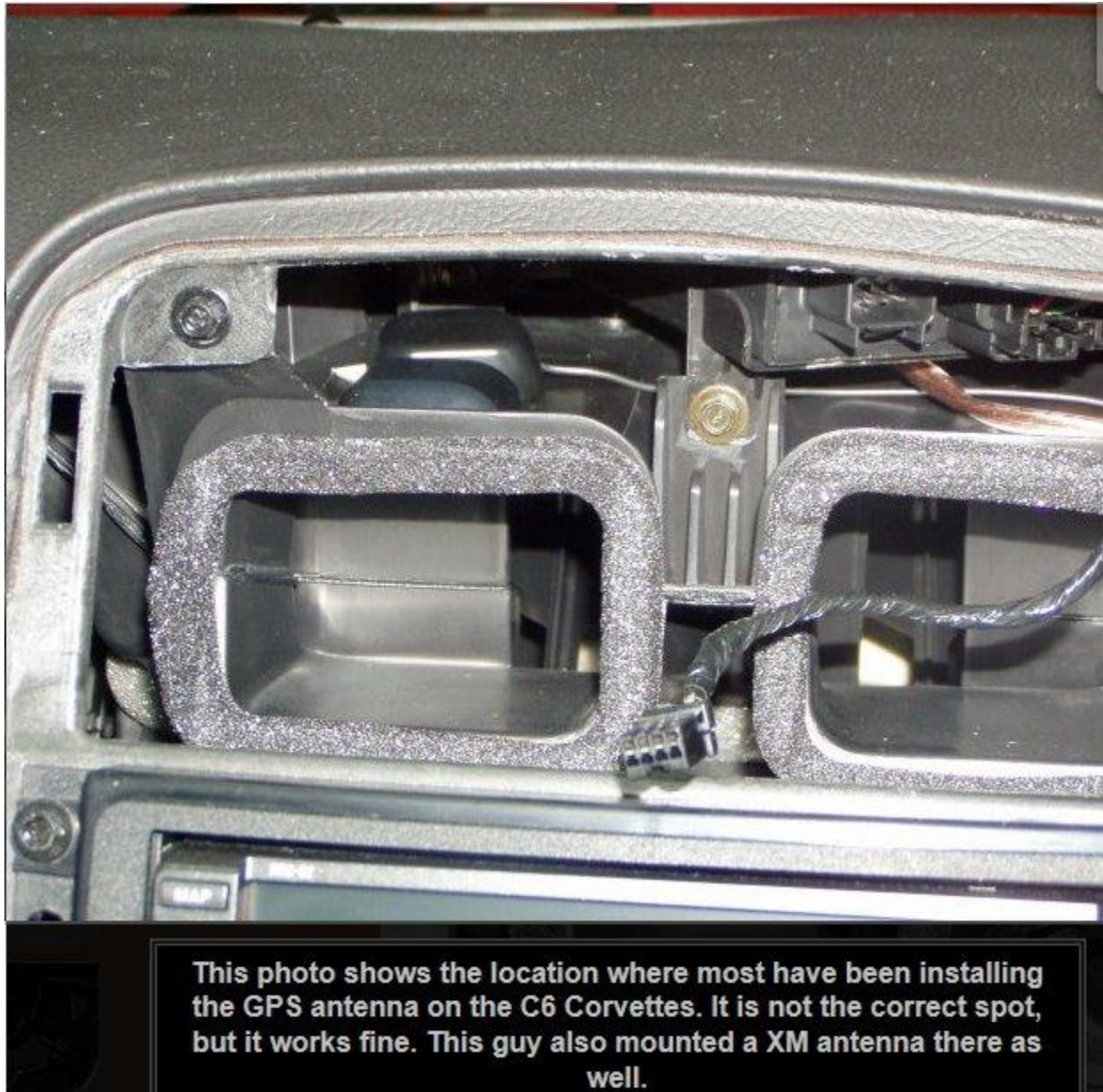
Once the radio surround is off, you need to remove the A/C control module (2 screws) and then remove your radio (4 screws)

Unplug the radio harness and the FM antenna from the radio.

With the removal of the radio completed, you will need to install the GPS antenna (GM part # 15821094). You can stick it on top of the duct vent, as the reception will be A-1 in that position.

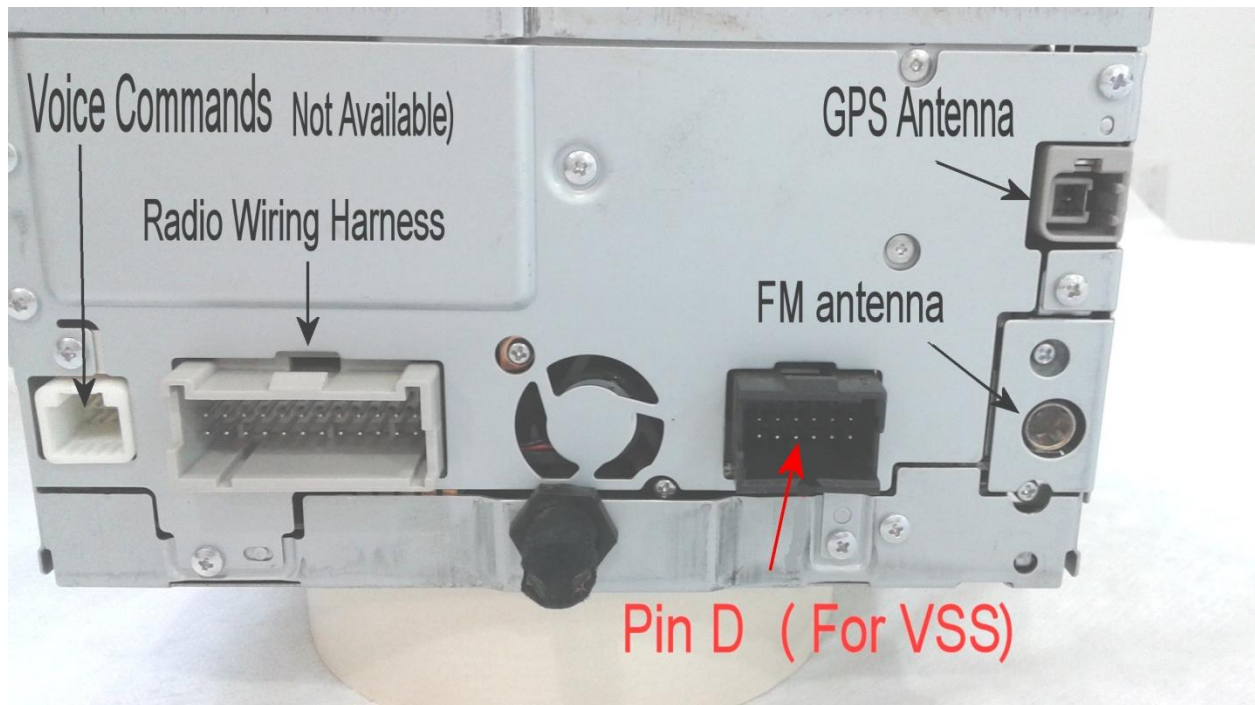


Position GPS antenna on top of duct.



With the antenna in place, plug the GPS antenna into the Nav unit.

Plug the radio wiring harness and the FM antenna into the back of the unit in the appropriate locations (see pic)



Since the car has no On-Star microphone (Non Bose system) the Nav will not receive voice activated commands to enter destinations or Points of Interest. Using voice commands never works very good because of interior noise anyway, so it's no big loss. 99% of owners just type in the destinations from the Navigation destination keypad.

Since the vehicle probably has no Heads UP Display, you will need to get a source of the Vehicle Speed Sensor (VSS) to plug into the Nav Unit. It's not required, but it will give you the time of arrival etc. and mileage to your destination, and make the Navigation system work likes it is supposed to work.

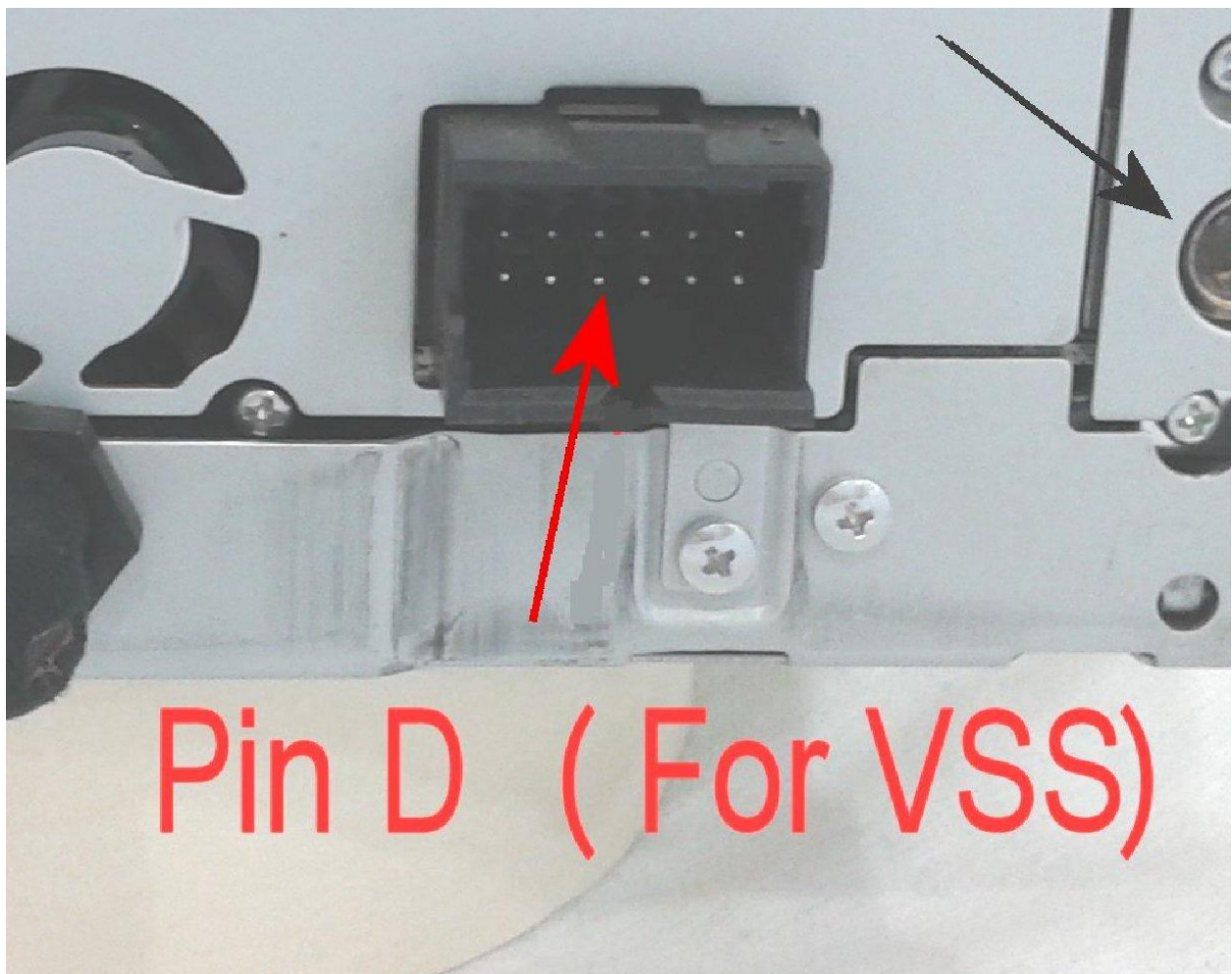
You will have to get access to the Grey Gage Cluster connector.

Gage Cluster surround removal video

<https://www.youtube.com/watch?v=HY3Nkvz0oVg>

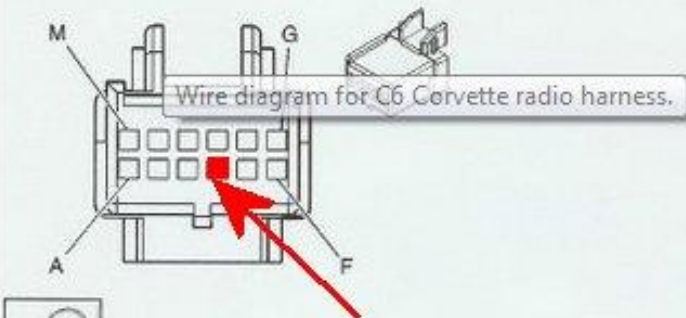
To get a feed of the VSS, remove the gage cluster surround, remove the gage cluster then find pin 6 (Dark Green with a White Stripe) on the grey connector for the cluster. Add a separate wire to this pin 6, then add a female pin connector to the end of that wire to plug into Pin D (forth from bottom from right) of the back of the Nav Unit. Make sure you cover the female pin connector with wiring shrink wrap so it doesn't make contact with any of the adjacent pins.

Here is a pic of where pin D is located on the male section of the harness connector.



Here is a pic of where pin D is on the female section of the plug in harness found on BOSE and HUD trim level corvettes, but not available on the 1LT trim corvettes. They are mirror image of each other. The connector shows pin D 4 from the left, but it is 4 from the right on the back of the nav unit.

Service Information



Pin D (For VSS)

Connector Part Information


- OEM: 12064799
- Service: 15305996
- Description: 12-Way F Micro-Pack 100 Series (BK)

Terminal Part Information

- Pins: A, D, H-M
- Terminal Tray: 12146447/3
- Core Insulation Crimp: E/C
- Release Tool/Test Probe: 12031876-1/J-35616-6 (BN)
- Pins: B
- Terminal Tray: 12146448/19
- Core Insulation Crimp: E/A
- Release Tool/Test Probe: 12031876-1/J-35616-6 (BN)

Radio C2

Pin	Wire Color	Circuit No.	Function
A	OG	5748	Amplifier Mute Signal (U12)
B	GY	5749	Radio Vehicle Noise Compensation Enable Signal
C	--	--	Not Used
D	D-GN/WH	817	Vehicle Speed Signal (Denso Radio)
E-G	--	--	Not Used
H	D-GN/WH	368	Right Audio Signal (U2K)
J	BN/WH	367	Left Audio Signal (U2K)
K	TN/WH	372	Audio Common (U2K)
L	1-BU	1405	Remote Playback Device Audio Common Signal (U12/U1E1)
M	OG/BK	1406	Remote Playback Device Audio Signal (U12/U1E1)



View Size

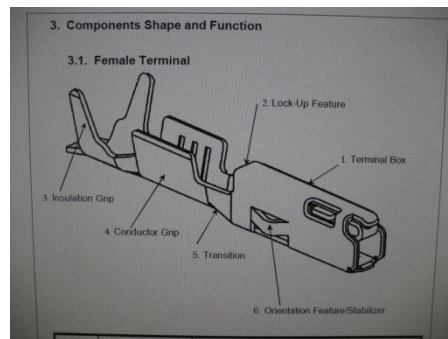
Small

Medium

Large

Original

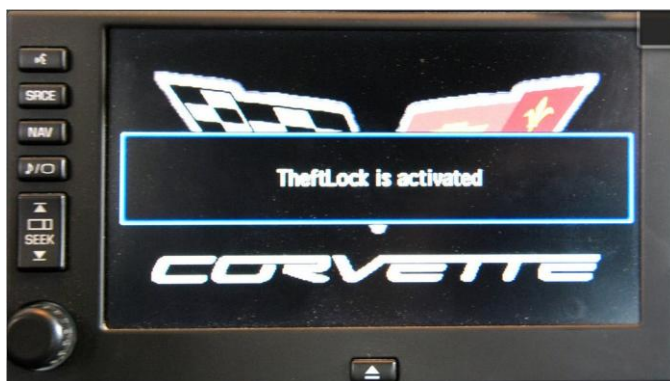
Female terminal connector needed for end of wire for D pin.



Once you have all the connections made in the back of the Nav Unit, fasten the Nav unit and the A/C control module to the frame. Put the car in ACC mode, put in the NAV DVD to try the Nav unit. If it functions as expected, then you can re-install the gage cluster, gage surround, the radio surround etc.

You can use the Nav unit in ACC mode as long as you want, but once you start the car, the unit will go into theft lock, so you will have to get it unlocked at the GM dealer or by a shop that has a Tech II handheld unit to install your vin # into the Nav unit to marry it to your vehicle. Most charge a few \$\$ to do this.

The message you get once you actually start the car.



The installation is not difficult, and either is adding the GPS antenna, or getting a Vehicle Speed Sensor feed from the gage cluster connector.

A small thin male connector will slide in the back of the Pin 6 and a female connector will fit nicely on Pin D behind the Nav Unit.

Minimal electrical or stereo installation skills are required.

If you are not comfortable, then a good stereo installer will have no problems at all fixing you up.

The radio surround console and the gage cluster surround removal are as easy as it shows on the youtube videos.

As always, patience is needed for any type of installation in vehicles because of tight quarters.