Three horizontal orange lines of varying lengths, stacked vertically, located to the left of the title text.

Volvo VNL-VNR-VNX-VHD – 2018+ PeopleNet Connected Gateway™ Install



Engine Data Update

- Volvo announced on March 20, 2019 that they could not endorse using the diagnostic connector for any third party modules on vehicle model years 2018 and up. This would include PeopleNet/Trimble devices.
- This was not a response to known issues, but our install recommendations have changed to reflect Volvo's position. That involves connecting inside the dash using the 2-pin Main Cable.
- An alternative to the 2-pin is available for new vehicles as noted below.

RP1226 for new Volvos

- New Volvos can be ordered with an alternate Power/Engine Data connection which is simpler to connect than the 2-pin below. That connector is normally referred to as “RP1226” or “TMC”.
 - Use code D6X-JMX on purchase to get the RP1226.
- There are plans to begin including that connector as standard in all Volvos beginning in late 2019.
- The mating PCG cable is L-016-0644, shown here.



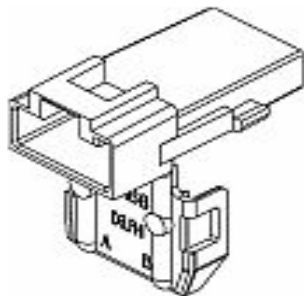
Install Steps



- 1) Connect and mount the display.
- 2) Connect and mount the PCG.
- 3) Connect the display blue barrel and 2-pin power to the PCG Main Cable. Non-Trimble displays will not require the blue barrel.
- 4) Connect the PCG Main Cable to the vehicle power and 2-pin engine data.

Non-Trimble Parts Needed

Connector Housing
2 Per Vehicle
Delphi 12034344

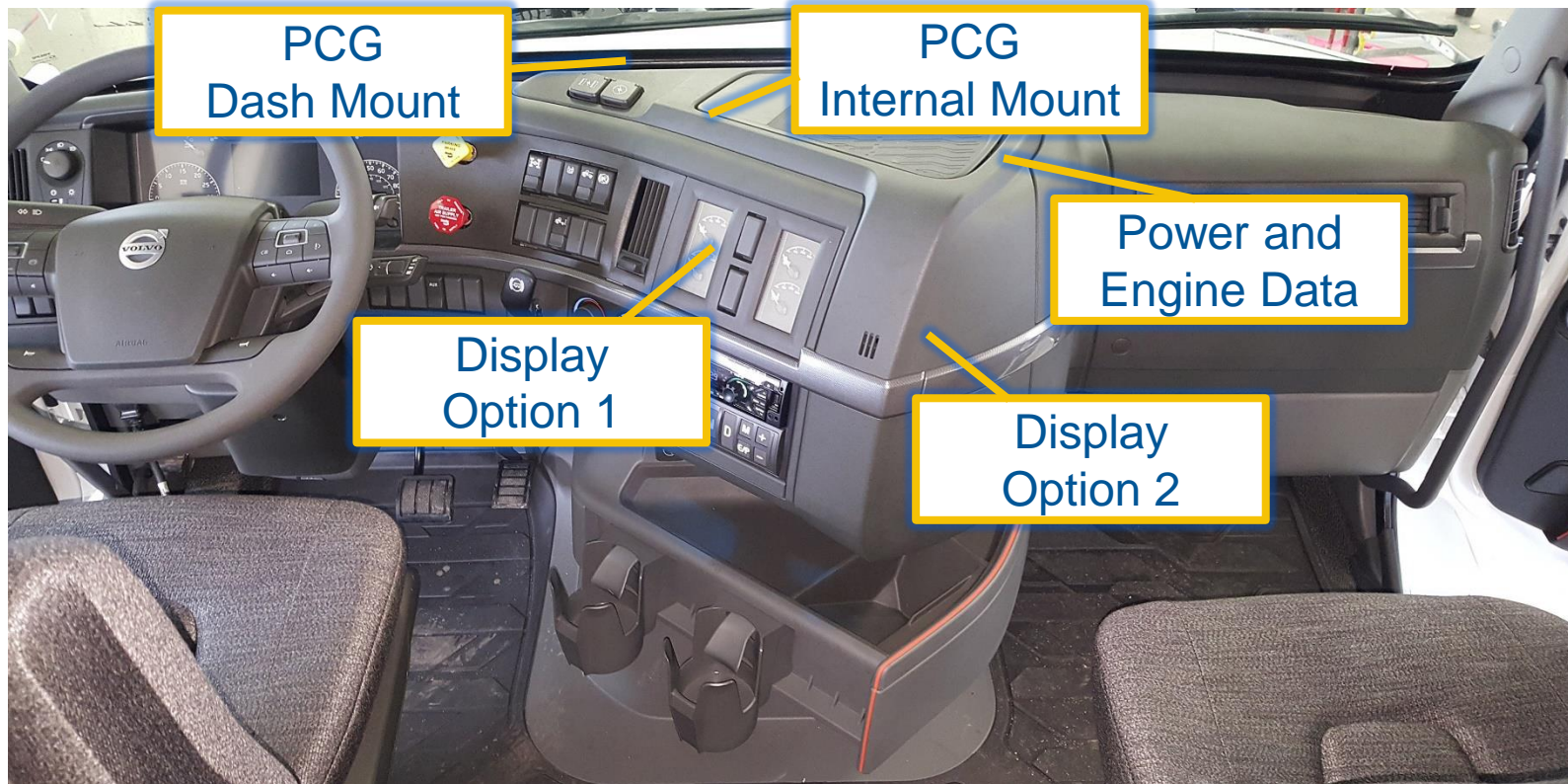


Power Pin
3 Per Vehicle
Delphi 12020116



- Volvo provides spare Power/Ignition/Ground connections, but a non-destructive install requires special connectors.
- These can be purchased from a number of online sources: search on the part numbers for options.
- If no parts are available, you can follow the instructions below, but instead of direct connections you will cut the connectors off the vehicle and splice in the Power Assembly.

Install Overview



Dash Disassembly

[Click here for a brief video of this process.](#)

1 Pop up the front (windshield) edge of the fuse panel cover, then slide it forward and up.

2 Pop out the passenger's side silver piece starting near the center dash.

3 Pop out the driver's side silver piece starting near the center dash, then slide it to the right to release the tab near the steering column.

4 Remove the 2 screws holding the top dash panel and pop up the top portion to remove.

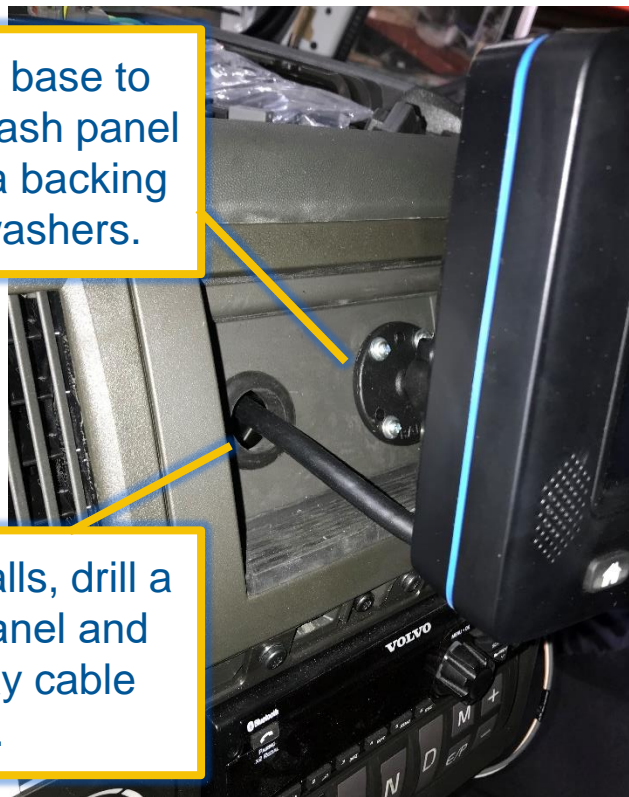
5 Remove the 2 screws holding the low-center panel and pop it straight back to release the two central tabs.

Display Option 1

This mount is recommended for vehicles with no gauges on the right-center dash panel.

Mount the RAM base to the right-center dash panel using bolts and a backing plate or large washers.

For In-Dash installs, drill a 1" hole in the panel and pass the display cable through.



Display Option 2

This mount is recommended for vehicles with no space available on the right-center dash panel.

Mount the RAM base to the center dash panel above the center line using bolts and a backing plate or large washers.



For in-dash installs, route the display cable into the dash through the gap below/forward of the central storage space.



Engine Data

Locate the gray connector labeled “DL1 J1939”.
Do not use “DL3” or “DL5”.



Disconnect the terminating resistor from the vehicle's gray J1939 data line and connect the PMG Main Cable male in its place.



Connect the terminating resistor to the PMG Main Cable female then secure the cabling.

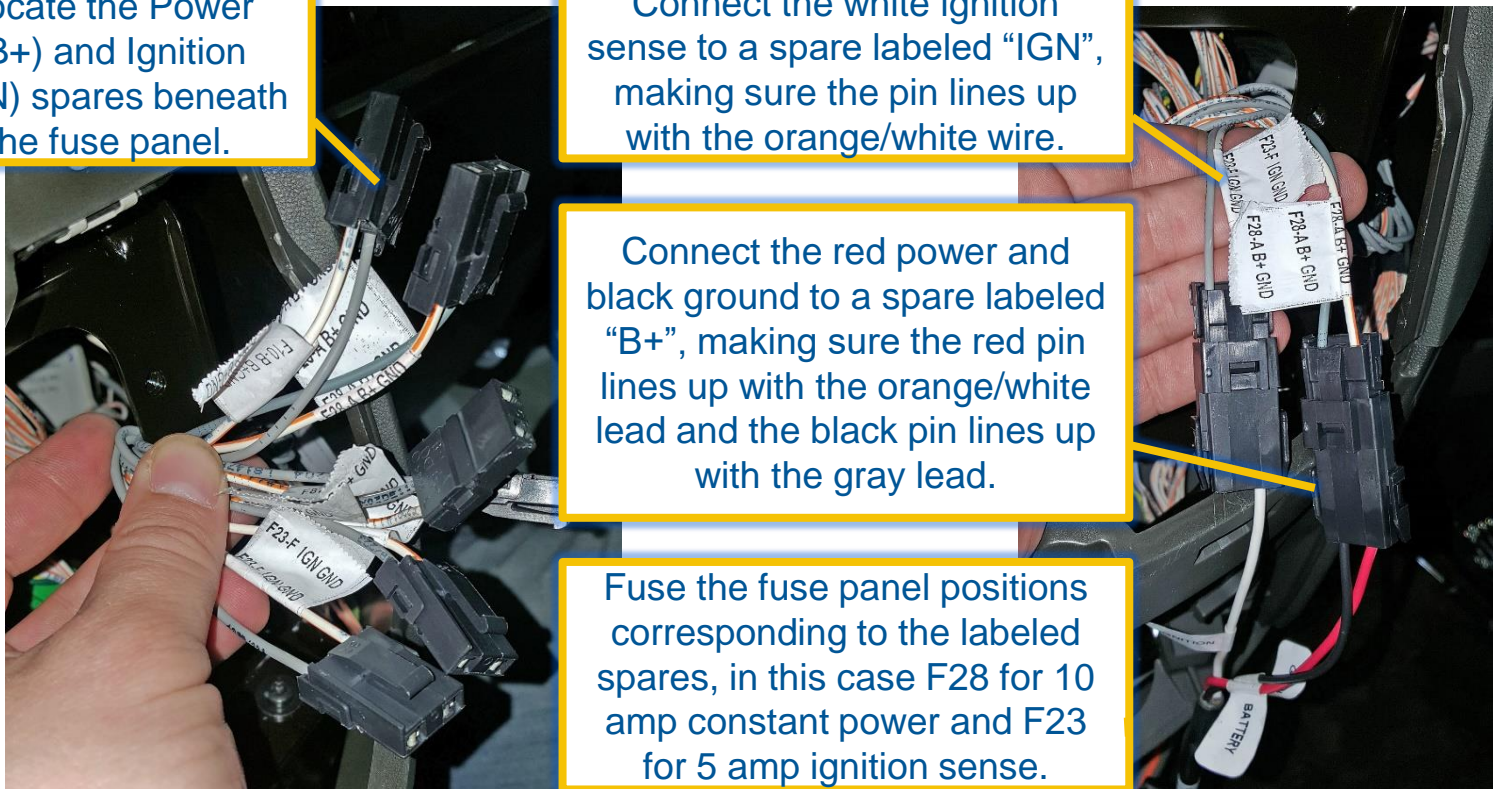
Power Connections

Locate the Power (B+) and Ignition (IGN) spares beneath the fuse panel.

Connect the white ignition sense to a spare labeled "IGN", making sure the pin lines up with the orange/white wire.

Connect the red power and black ground to a spare labeled "B+", making sure the red pin lines up with the orange/white lead and the black pin lines up with the gray lead.

Fuse the fuse panel positions corresponding to the labeled spares, in this case F28 for 10 amp constant power and F23 for 5 amp ignition sense.



PCG Mount – In-Dash



Mount the PCG to the left of the fuse panel as high as possible and secure with the tape provided and plastic ties.