



Technical Bulletin

Trimble Transportation Technical Bulletin Number 1002

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Volvo Engine Data Connection Update

No Diagnostic Port Install Option on Volvo Model Years 2018 and Newer

Vehicles Involved:

All Class 8 Volvo vehicles model year 2018 and newer, including the VNL, VNR, VNX, VAH, and VHD.

Products Involved:

All Trimble Transportation base units, including PMG, PCG, Duo, and g3.

Summary:

Volvo reconfigured the engine data circuitry to include a VECU device between the diagnostic port and the main backbone. As part of this change they no longer recommend connecting any telematics device to the diagnostic plug, as this may cause confusion in the VECU resulting in transmission and other issues.

Solution:

All subject vehicles can accept a 2-pin installation, which connects to the main J1939 backbone (DL1) inside the dash. This requires in-dash engine data and power connections, with no outside-the-dash option.

Vehicles built October 2019 and later also include an RP1226 connector, which provides engine data plus power/ignition/ground on one plug-and-play connector, simplifying installation.

- The factory-installed RP1226 connects to the secondary J1939 line (DL5), which may have limited engine data depending on the vehicle Make/Model/Year and Volvo configuration. This is part of an industry-wide effort to cut down on data bus traffic.
- Customers may instead choose to connect the 2-pin cable to DL1 for the full range of data.

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Products:**PMG**

- 2-Pin Kit M-010-0618 Cable L-016-00561
- RP1226 Cable L-016-0643 (No Kit Available)

PCG

- 2-Pin Kit M-010-0630 Cable L-016-0632
- RP1226 Cable L-016-0644 (No Kit Available)

Duo

- 2-Pin Kit M-010-0648 Cable L-016-0706
- RP1226 Kit M-010-0699 Cable L-016-0698

g3

- 2-Pin Kit M-010-0174
- No RP1226 Available

Additional documentation, including vehicle-specific installation guides, is available at:

<https://transportation.trimble.com/installations/>

Figure	Description
1	Volvo 2-Pin Engine Data Connection
2	RP1226 Connector

Figure 1: Volvo 2-Pin Engine Data Connection

Volvo 2018+ 2-Pin Engine Data

In the forward area of the fuse panel, locate the gray connector labeled "DL1J1939". Do not use "DL3" or "DL5".

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



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

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Figure 2: RP1226 Connector

