


Tech Tool Adapters and Cables Guide



Connection tips

- Always make sure Tech tool is up to date via the Client update on the windows tool bar. 🌐 Major releases will be updated via disk sent through the mail.
- Always make sure the interface adapter has the latest drivers installed. The manufactures list driver updates on their web pages.
- Make sure the correct interface adapter is selected in Tech tool. You can check this under the settings tab on the product page. Make sure the adapter is showing Active .
- If there is no power light lit up on your adapter, check the fuse labeled Diagnostic tool or Diagnostic connector.
- Allow the Tech tool to identify the truck. Do not click the connect button when the product page first loads. This could take 1-2 minutes depending on the truck and adapter used. VMAC I trucks will require a manual selection.
- If you are experiencing connection issues, control unit mismatches, incorrect model or electrical system populate, or operations for that vehicle are missing, do the following. Disconnect the adapter from the truck and PC for at least 2 minutes. Click “Finish Work” on the product page in Tech tool. Go to the “Latest selections” list and remove the VIN you are having the issue with. Power cycle the truck for at least 10 seconds. Now re-connect to the truck. If the issue persists, contact the help desk.
- For more information on adapters, please see the Compatible Adapter Matrix at <http://www.premiumtechttool.com/technical-support/>.

Identifying your vehicles electrical system

Volvo

- **PRE-ELECTRONICS (Not in Tech tool).** Engines: D7, D7A, & D7B. These are mechanical engines, do not need to use Tech tool. **Requires service binder: PV776-K-VED7 or Impact.**
- **OLDER ELECTRICAL SYSTEM.** Engines: D12 & D12A. Engine ECU only. Used in the Volvo/White/GMC models. **No guided diagnostics in Tech tool, requires service manual: PV776-TSP162100 or Impact.** 6 or 9 pin diagnostics connector.
- **VEHICLE ELECTRONICS '98.** Engines: D12B, D12C, & D7C. Engine ECU only. Used in the VN, VHD, Volvo/White/GMC models. **No guided diagnostics in Tech tool, requires service manual: PV776-TSP144528 or Impact.** 6 or 9 pin diagnostics connector.
- **VERSION 1.** Engines: D12B, D12C, & D7C. Engine ECU and Vehicle ECU. VN & VHD models. **No guided diagnostics in Tech tool, requires service manual: PV776-TSP144528 or Impact.** 6 or 9 pin diagnostics connector.
- **VERSION 2.** Engines: D12D, D16D, US07 & US10 D11/D13/D16. Engine ECU and Vehicle ECU. VN, VHD, VAH models. Emissions use Two modules Engine ECU and Vehicle ECU. US10 Emissions added the Aftertreatment Control Module for the SCR system. Tech tool has guided diagnostics for US07+ Emissions trucks. **No guided diagnostics in Tech tool for D12D and D16D engines, requires service binder: PV776-K-D12D, PV776-K-D16D, or Impact.** Uses the 9 pin diagnostic connector.
- **VERSION 3.** Engines: D11/D13/D16 US13+ Emissions. VN, VHD, VAH. VNX models. Added the ISO powertrain data link, has the 16 pin OBD style connector. **Requires the Volvo/Mack specific 16 pin cable.**

Service manuals available at www.Volvotrucksemedia.com

Mack

- **VMAC I – 1990-1997.** Engine: E-7, Two modules: ECU and FIC (Fuel Injection Controller). Modules are located together, in front of passenger seat. **Requires a manual selection in Tech tool. No guided diagnostics in Tech tool, requires service manual: 8-201.** Uses a 6 or 9 pin diagnostic connector.
- **VMAC II – 1995-1997.** Engine: E-7. One module: ECU. Module is located in front of the passenger seat. The latest version of Tech tool should automatically identify the truck from this electrical system on. **No guided diagnostics in Tech tool, requires service manual: 8-206.** Uses a 6 or 9 pin diagnostic connector.
- **VMAC III – 1998-2006.** Engines: E-7 ETECH, ASET AI, & ASET AC. Two modules: Engine ECU and Vehicle ECU. Engine ECU is mounted on the engine, Vehicle ECU is located in front of the passenger seat. **No guided diagnostics in Tech tool, requires service manual: 8-211.** 6 or 9 pin diagnostics connector.
- **VMAC IV – 2004-2013.** Engines: MP Series. US04-US07 Emissions use Two modules Engine ECU and Vehicle ECU. US10 Emissions added the Aftertreatment Control Module for the SCR system. Tech tool has guided diagnostics for US07+ Emissions trucks. **No guided diagnostics in Tech tool for VMAC IV US04 emissions, requires service manual: 8-213.** Uses the 9 pin diagnostic connector.
- **VMAC IV+ - 2014+.** Engines: MP Series. US13+ Emissions. Three modules: Engine ECU, Vehicle ECU, and Aftertreatment Control Module. Added the ISO powertrain data link, has the 16 Pin OBD style diagnostic connector. **Requires the Volvo/Mack specific 16 pin cable.**

Service manuals available at www.Macktrucksemedia.com

Volvo/Mack 6 pin diagnostic connector.



6 Pin diagnostic connector.
Data link: J1587/J1708 only.

ADAPTER	CABLE
VOCOM (88890300/88894000) VOLVO ONLY	98097089 Also requires 88890306 (FCI cable)
VOCOM (88890300/88894000) MACK ONLY	88890257 6 to 9 Pin adapter Also requires 88890302, or 88890315 (9 pin cable)
NEXIQ USB LINK	402048 (6/9 Pin Combo cable)
NEXIQ USB LINK 2	493148 (6/9 Pin Combo cable)
J-PRO/NOREGON DLA+	12172
DEARBORN DPA 4+	DG-J1939-04-CABLE (6/9 Pin Combo cable)
DEARBORN DPA 5	DG-DPA5-YDUALCAN (6/9 Pin Combo cable)

Volvo/Mack 9 pin diagnostic connector.



9 Pin diagnostic connector.
Data links: J1587/J1708 and J1939.

ADAPTER	CABLE
VOCOM (88890300/88894000)	88890302 (Black, standard connection) 88890315 (Green, for OBD16 Cummins)
NEXIQ USB LINK	402048 (6/9 Pin Combo cable)
NEXIQ USB LINK 2	493148 (6/9 Pin Combo cable)
J-PRO/NOREGON DLA+	12189
DEARBORN DPA 4+	DG-J1939-04-CABLE (6/9 Pin Combo cable)
DEARBORN DPA 5	DG-DPA5-YDUALCAN (6/9 Pin Combo cable)

Volvo/Mack 16 pin diagnostic connector.



16 Pin diagnostic connector.
Data links: J1587/J1708, J1939, and J2284
(ISO 14229).

ADAPTER	CABLE
VOCOM (88890300/88894000)	88890253
NEXIQ USB LINK	442023
NEXIQ USB LINK 2	493013
J-PRO/NOREGON DLA+	12159
DEARBORN DPA 4+	N/A (adapter does not support ISO)
DEARBORN DPA 5	DG-V13-CABLE-KIT

88890020 and VOCOM Adapter's

88890020

- Supports J1708 and J1939.
- For use on US10 and older trucks.
- Wireless capability.
- No longer available. (superseded to 88890300)

VOCOM 88890300

- Supports J1708, J1939, and ISO 14229.
- Supports high speed programming in Tech tool.
- Wireless capability.
- Available from Volvo and Mack dealers or www.Volvotrucksemedia.com
- Product support: 877-978-6586.

Has been superseded to 88890300



Has been superseded to 88894000



VOCOM II Adapter

VOCOM II 88894000

- Replaces the Vocom 88890300
- Supports J1708, J1939, and ISO 14229.
- Supports high speed programming in Tech tool.
- Wireless capability
- Available from Volvo and Mack dealers or www.Volvotrucksemedia.com
- Product support: 877-978-6586



VOCOM Cables

Cables are available from Volvo and Mack dealers or, at

www.Volvotrucksemedia.com

part number: 88890306

For use with the VOCOM (88890300) or VOCOM II (88894000) adapter.

FCI cable used in conjunction with [Volvo Part number 9809709](#).

These cables are used to for 6 Pin diagnostic connectors and for bench programming.

Volvo part number: 88890302

For use with the VOCOM (88890300) or VOCOM II (88894000) adapter.

9 pin diagnostic cable.

Volvo part number: 88890253

For use with the VOCOM (88890300) or VOCOM II (88894000) adapter.

16 Pin OBD style diagnostic cable.



Vocom Cables Continued

Cables are available from Volvo and Mack dealers or, at
www.Volvotrucksemedia.com



Volvo part number: 88890313
For use with the Vocom (88890300) or Vocom II (88894000) adapter.

USB cable that connects the Vocom to the PC.



Mack part number: 88890257
6 to 9 Pin adapter.

Used to hook to 6 Pin Mack trucks. For use with 88890302, or 88890315 9 Pin cables.



Volvo Part number: 88890315
For use with the Vocom (88890300) or Vocom II (88894000) adapter.

Used to connect to OBD16 Cummins equipped vehicles. Will also connect to older black 9 pin.

Nexiq Adapters

USB Link

- Supports J1708, J1939, and ISO 14229.
- Does not support high speed programming in Tech tool.
- Wireless capability.
- No longer available. Replaced by USB Link -2



USB Link 2

- Supports J1708, J1939, and ISO 14229.
- Does not support high speed programming in Tech tool.
- Wireless and Bluetooth capability.
- Product support: 800-639-6774



Nexiq Cables for USB Link

Cables are available at www.nexiq.com.



Nexiq part number: 402048
For use with the USB Link adapter.
Combination 6/9 pin diagnostic cable.



Nexiq part number: 442023
For use with the USB Link adapters. 16 Pin OBD style
diagnostic cable.

*Cannot use a standard OBD cable, must use this Volvo/Mack
specific cable from Nexiq.*

Nexiq Cables for USB Link 2

Cables are available at www.nexiq.com.



Nexiq part number: 493148
For use with the USB Link 2 adapter.
Combination 6/9 pin diagnostic cable.



Nexiq part number: 493013
For use with the USB Link 2 adapters. 16 Pin OBD style
diagnostic cable.

J-PRO/Noregon Adapter

DLA+

- Supports J1708, J1939, and ISO.
- Does not support high speed programming in Tech tool.
- Noregon offers a wireless version, DLA+ wireless.
- Noregon also offers a DLA+/PLC version for trailer ABS fault tracing.
- Available at www.jprofleetproducts.com
- Product support: 855-889-5776.



J-PRO/Noregon Cables

Cables available at www.jprofleetproducts.com



J-PRO part number: 12172

For use with the all J-PRO adapters.

6 Pin diagnostic cable.



J-PRO part number: 12189

For use with all J-PRO adapters.

9 Pin diagnostic cable.



J-PRO part number: 12159

For use with all J-PRO adapters.

16 Pin OBD style diagnostic cable.

Cannot use a standard OBD cable, must use this Volvo/Mack specific cable from J-PRO/Noregon.

Dearborn Adapters

DPA 4+

- Supports J1708 and J1939.
- Does not support high speed programming in Tech tool.
- No wireless capability.
- Available at www.dgtech.com
- Product support: 317-248-9332



DPA 5

- Supports J1708, J1939, and ISO.
- Does not support high speed programming in Tech tool.
- Wireless capability.
- Available at www.dgtech.com
- Product support: 317-248-9332

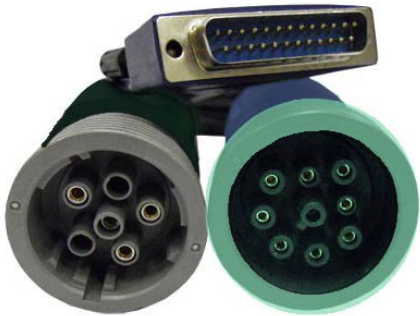


Dearborn Cables

Cables available at www.dgtech.com



Dearborn part number: DG-J1939-04-CABLE
For use with the DPA4+ adapter.
Combination 6/9 Pin diagnostic cable.



Dearborn part number: DG-DPA5-YDUALCAN
For use with the DPA5 adapter.
Combination 6/9 Pin diagnostic cable.



Dearborn part number: DG-V13-CABLE-KIT
For use with the DPA5 adapter.
Combination 9/16 Pin diagnostic cable.

Cannot use a standard OBD cable, must use this Volvo/Mack specific cable from Dearborn.