Data Link Diagnostics - Control Box 88890276, Information

Internal Content

88890276 Control Box Enhances Volvo and Mack Vehicle Data Link Diagnostics

The 88890276 Control Box provides robust connection and safe access to all circuits available on standardized SAE and TMC defined data link connectors used on Volvo and Mack vehicles.

Features and Benefits:

Mechanical Dimensions:

- Exchangeable front panel templates that provide Volvo and Mack proprietary and standardized text labels for each circuit on the vehicle's diagnostic connector (DLC).
- Base configuration supports 16 pin DLC connection, with expansion to 9 pin and 6 pin DLCs
- Visual LED character display provides Technician a fast means to determine vehicle Battery Voltage at the DLC – just plug it in!
- Color LEDs on pins 1, 4, 5, and 16 indicate functional operation (e.g. pin 1 presents Key Switch Signal On/Off state)
- Audible indication of Battery Voltage under and over voltage condition
- Compatible with vehicles which have both 12v and 24v DC battery

voltage on the DLC

- 16 pin cable length 4.9’ (1.5m)

Supported Vehicle Data Link Connector Interfaces:

- SAE J1939-13 9 pin Type 2 (Green/500kbps)
- TMC RP1202 6 pin

Kit Components for the Volvo Truck 88890276 Control Box:

Part	Description
Assembly	Volvo Control Box
Label Face Plate	Circuit designation for RP1202 6p DLC
Label Face Plate	Circuit designation for SAE J1939-13 9pin Type 2 DLC
Label Face Plate	Circuit designation for Volvo and Mack 16pin Type B DLC
Uni-body Adapter	9/16pin Tester-Side Adapter (J1939-13 Type 2) for Vehicles with 9 pin Type 1 or Type 2 (green) data link connector
Uni-body Adapter	9/16pin Vehicle-Side Adapter (J1939-13 Type 1) for Testers with 9 pin Type 2 data link connector
Uni-body Adapter	6/16pin Tester-Side Adapter for Vehicles with 6 pin data link connector
Uni-body Adapter	6/16pin Vehicle-Side Adapter for Testers with 6 pin data link connector
Soft Case	Houses all components of the Volvo Control Box Kit
Operating Instructions	Text manual that describes operating the Volvo Control Box

88890276 Control Box Use Cases

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  - *Example: pin 1 LED indicates Key Switch signal activity, display reads out voltage on B+ pin, audible tone confirms low, high, or out of range 12v/24v Battery Positive signal*
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Live UI

- In-Line Configuration: All the above plus attach diagnostic

- In-Line Configuration: All the above plus attach diagnostic equipment to perform communications while interacting with vehicle network(s)
    - *Example: use diagnostic application to activate Alternator Duty Cycle Control to 100%, confirm system voltage on control box display is greater than specification, and use separate current probe to measure alternator current output*

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