

Diagnostic List Volvo\_v8.86

Remark:

1. ✓ : means that the system has this function
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3. compared with the last version, the new added function is marked in red color.

| Model        | System Types                 | Function      |          |           |                  |  |
|--------------|------------------------------|---------------|----------|-----------|------------------|--|
|              |                              | Version info. | Read DTC | Clear DTC | Read data stream | Remarks(Other Functions)                                     |
| Volvo(J1708) | Volvo Trucks                 | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |                              |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |                              |               |          |           |                  | Some models support the Cylinder Compression, Test           |
|              |                              |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |                              |               |          |           |                  | Some models support the Cylinder Balancing, Test             |
|              |                              |               |          |           |                  | Some models support the Parameter.Programming                |
|              |                              |               |          |           |                  | Some models support the Actuation Test                       |
|              |                              |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |                              |               |          |           |                  | Some models support the Instrument calibration function      |
|              |                              |               |          |           |                  | Some models support the VGT calibration function             |
| Volvo(J1708) | Volvo Construction Equipment | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |                              |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |                              |               |          |           |                  | Some models support the Cylinder Compression, Test           |
|              |                              |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |                              |               |          |           |                  | Some models support the Cylinder Balancing, Test             |
|              |                              |               |          |           |                  | Some models support the Actuation Test                       |
|              |                              |               |          |           |                  | Some models support the Parameter.Programming                |
|              |                              |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |                              |               |          |           |                  | Some models support the VGT calibration function             |
|              |                              |               |          |           |                  | Some models support the Instrument calibration function      |
| Volvo(J1708) | Volvo Buses                  | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |                              |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |                              |               |          |           |                  | Some models support the Cylinder Compression, Test           |
|              |                              |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |                              |               |          |           |                  | Some models support the Cylinder Balancing, Test             |
|              |                              |               |          |           |                  | Some models support the Actuation Test                       |
|              |                              |               |          |           |                  | Some models support the Parameter.Programming                |
|              |                              |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |                              |               |          |           |                  | Some models support the VGT calibration function             |
|              |                              |               |          |           |                  | Some models support the Instrument calibration function      |
| Volvo(J1708) | Volvo OEM Component Customer | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |                              |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |                              |               |          |           |                  | Some models support the Cylinder Compression, Test           |
|              |                              |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |                              |               |          |           |                  | Some models support the Cylinder Balancing, Test             |
|              |                              |               |          |           |                  | Some models support the Actuation Test                       |
|              |                              |               |          |           |                  | Some models support the Parameter.Programming                |
|              |                              |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |                              |               |          |           |                  | Some models support the VGT calibration function             |
|              |                              |               |          |           |                  | Some models support the Instrument calibration function      |

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|--------------|---|---------------|----------|-----------|------------------|--|
|              |   | Version info. | Read DTC | Clear DTC | Read data stream | Remarks(Other Functions)                                     |
| Volvo(J1708) | Renault Trucks                                  | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |   |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |   |               |          |           |                  | Some models support the Cylinder Compression,Test            |
|              |   |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |   |               |          |           |                  | Some models support the Cylinder Balancing,Test              |
|              |   |               |          |           |                  | Some models support the Actuation Test                       |
|              |   |               |          |           |                  | Some models support the Parameter.Programming                |
|              |   |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |   |               |          |           |                  | Some models support the VGT calibration function             |
|              |   |               |          |           |                  | Some models support the Instrument calibration function      |
| Volvo(J1708) | Shandong Lingong Construction Machinery Co.,Ltd | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |   |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |   |               |          |           |                  | Some models support the Cylinder Compression,Test            |
|              |   |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |   |               |          |           |                  | Some models support the Cylinder Balancing,Test              |
|              |   |               |          |           |                  | Some models support the Actuation Test                       |
|              |   |               |          |           |                  | Some models support the Parameter.Programming                |
|              |   |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |   |               |          |           |                  | Some models support the VGT calibration function             |
|              |   |               |          |           |                  | Some models support the Instrument calibration function      |
| Volvo(J1708) | UD Trucks                                       | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |   |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |   |               |          |           |                  | Some models support the Cylinder Compression,Test            |
|              |   |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |   |               |          |           |                  | Some models support the Cylinder Balancing,Test              |
|              |   |               |          |           |                  | Some models support the Actuation Test                       |
|              |   |               |          |           |                  | Some models support the Parameter.Programming                |
|              |   |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |   |               |          |           |                  | Some models support the VGT calibration function             |
|              |   |               |          |           |                  | Some models support the Instrument calibration function      |
| Volvo(J1708) | Mack Trucks                                     | ✓             | ✓        | ✓         | ✓                | Some models support the injectors shut off functions         |
|              |   |               |          |           |                  | Some models support the Learned Data Reset                   |
|              |   |               |          |           |                  | Some models support the Cylinder Compression,Test            |
|              |   |               |          |           |                  | Some models support the Oil Pressure Test(During Cranking)   |
|              |   |               |          |           |                  | Some models support the Cylinder Balancing,Test              |
|              |   |               |          |           |                  | Some models support the Actuation Test                       |
|              |   |               |          |           |                  | Some models support the Parameter.Programming                |
|              |   |               |          |           |                  | Some models support the Actuation Test of TECU and Brake ECU |
|              |   |               |          |           |                  | Some models support the VGT calibration function             |
|              |   |               |          |           |                  | Some models support the Instrument calibration function      |

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|-----------------------------------|------------------------------------|---------------|----------|-----------|------------------------|---|
|                                   |                                    | Version info. | Read DTC | Clear DTC | Read data stream       | Remarks(Other Functions)  |
| Volvo (500K)                      | Engine Management System           | ✓             | ✓        | ✓         | ✓                      | Some models support the Actuation Test and special feature. Parameter. Programming  |
|                                   | Aftertreatment Control Module      | ✓             | ✓        | ✓         | ✓                      | Some models support the Actuation Test and special feature  |
|                                   | Transmission ECU                   | ✓             | ✓        | ✓         | ✓                      | Some models support the Actuation Test/Gearbox, clutch, engagement point calibration. Parameter. Programming                          |
|                                   | Rear Chassis I/O Module            | ✓             | ✓        | ✓         | ✓                      | Level sensor calibration, Parameter. Programming  |
|                                   | Center Chassis I/O Module          | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Front Chassis I/O Module           | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Body Builder Input Output Module   | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Air Pressure Management            | ✓             | ✓        | ✓         | ✓                      | Some action testing and advanced features, Parameter. Programming   |
|                                   | Vehicle Master Control Unit        | ✓             | ✓        | ✓         | ✓                      | Service Alert System, Configuration and Reports, Parameter. Programming<br>Service Alert System, Configuration and Reports(UD Trucks) |
|                                   | Integrated Electronic Control Unit | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Tire Pressure Management           | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Antilock Brake System              | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Electronic Brake System            | ✓             | ✓        | ✓         | ✓                      | Some action testing and advanced features, Parameter. Programming   |
|                                   | Front Axle Steering                | ✓             | ✓        | ✓         | ✓                      | Active steering calibration   |
|                                   | Front Active Steering Gateway      | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Cab I/O Module                     | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | LIN Interface Module               | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Security Cab Interface Module      | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Telematics GateWay                 | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Telematics ECU                     | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Driver Assistance Control Unit     | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Lane Position and Object Sensor    | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Forward Looking Sensor             | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Safety Restraint System            | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Human-Machine Interface I/O Module | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Instrument Cluster                 | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Instrument Cluster Graphics        | ✓             | ✓        | ✓         | ✓                      |   |
|                                   | Secondary Information Display      | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | VideoSwitch                        | ✓             | ✓        | ✓         | ✓                      | Parameter. Programming  |
|                                   | Audio                              | ✓             | ✓        | ✓         | ✓                      |   |
| Services and Entertainment Module | ✓                                  | ✓             | ✓        | ✓         |                        |   |
| Radio Entertainment Module        | ✓                                  | ✓             | ✓        | ✓         |                        |   |
| Climate Control Module            | ✓                                  | ✓             | ✓        | ✓         | Parameter. Programming |   |

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|--------------|--|---------------|----------|-----------|------------------|------------------------|---------------------------|
|              |  | Version info. | Read DTC | Clear DTC | Read data stream |                        |                           |
| Volvo (500K) | Passenger Door Module                                    | ✓             | ✓        | ✓         | ✓                | Parameter. Programming |                           |
|              | Driver Door Module                                       | ✓             | ✓        | ✓         | ✓                | Parameter. Programming |                           |
|              | Living Environment Control Module                        | ✓             | ✓        | ✓         | ✓                | Parameter. Programming |                           |
|              | Alarm ECU  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Body Builder Module                                      | ✓             | ✓        | ✓         | ✓                | Parameter. Programming |                           |
|              | Generic Gateway ECU                                      | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Digital Tacho DTCO                                       | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Analog Tacho MTCO  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Node name for TSU - Tacho Simulator Unit - 27.3 to be    | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | MTCO1390 - Analog Tachograph for Brazil to differentiate | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Wireless Remote Gateway                                  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Bending Light ECU  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Hybrid Powertrain Control Unit                           | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Power Generator Control Module                           | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Power Resistor Control Module                            | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Extra Axle Steering                                      | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Clear Air Power ECU                                      | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Battery Control Module                                   | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Human Machine Interface Control Unit                     | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Human Machine Interface Control Unit 2                   | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | General Purpose Machine Electronic Control Unit 1        | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | General Purpose Machine Electronic Control Unit 2        | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | General Purpose Machine Electronic Control Unit 3        | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | General Purpose Machine Electronic Control Unit 4        | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | General Purpose Machine Electronic Control Unit 5        | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Interceptor Control Module                               | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Traction Battery Control Module                          | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Traction Battery Control Module #2                       | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Traction Battery Control Module #3                       | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Traction Battery Control Module #4                       | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Charging Interface Control Unit                          | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | On-board Charger Control Unit                            | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Combined Charging system Control Module                  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | OCCU2 - On-board Charger Control Unit 2                  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | OCCU3 - On-board Charger Control Unit 3                  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | OCCU4 - On-board Charger Control Unit 4                  | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Powertrain Control Module #1                             | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Powertrain Control Module #2                             | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Powertrain Control Module #3                             | ✓             | ✓        | ✓         | ✓                |                        |                           |
|              | Powertrain Control Unit                                  | ✓             | ✓        | ✓         | ✓                |                        |                           |

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|---|---|---------------|----------|-----------|------------------|---------------------------|
|   |   | Version info. | Read DTC | Clear DTC | Read data stream | Remarks (Other Functions) |
| Volvo (500K)  | Motor Control Unit #1                                 | ✓             | ✓        | ✓         | ✓                |                           |
|   | Motor Control Unit #2                                 | ✓             | ✓        | ✓         | ✓                |                           |
|   | Motor Control Unit #3                                 | ✓             | ✓        | ✓         | ✓                |                           |
|   | Motor Control Unit #4                                 | ✓             | ✓        | ✓         | ✓                |                           |
|   | Front Left Motor Control Module                       | ✓             | ✓        | ✓         | ✓                |                           |
|   | Front Right Motor Control Module                      | ✓             | ✓        | ✓         | ✓                |                           |
|   | Rear Left Motor Control Module                        | ✓             | ✓        | ✓         | ✓                |                           |
|   | Rear Right Motor Control Module                       | ✓             | ✓        | ✓         | ✓                |                           |
|   | Shut Down Module                                      | ✓             | ✓        | ✓         | ✓                |                           |
|   | Glare Free Headlamp Control Module 1 (Right)          | ✓             | ✓        | ✓         | ✓                |                           |
|   | Glare Free Headlamp Control Module 2 (Left)           | ✓             | ✓        | ✓         | ✓                |                           |
|   | Battery Power Management Unit                         | ✓             | ✓        | ✓         | ✓                |                           |
|   | Engine Control Module                                 | ✓             | ✓        | ✓         | ✓                |                           |
|   | Aftertreatment Control Module                         | ✓             | ✓        | ✓         | ✓                |                           |
|   | Turntable Module                                      | ✓             | ✓        | ✓         | ✓                |                           |
|   | Transcoder  | ✓             | ✓        | ✓         | ✓                |                           |
|   | Technology Development ECU                            | ✓             | ✓        | ✓         | ✓                |                           |
|   | Image Processing Module                               | ✓             | ✓        | ✓         | ✓                |                           |
|   | Helm Control Unit                                     | ✓             | ✓        | ✓         | ✓                |                           |
|   | Steering Unit for IPS10                               | ✓             | ✓        | ✓         | ✓                |                           |
|   | Steering Control Module                               | ✓             | ✓        | ✓         | ✓                |                           |
|   | Thruster Control Module                               | ✓             | ✓        | ✓         | ✓                |                           |
|   | CAN Controlled Joystick 1                             | ✓             | ✓        | ✓         | ✓                |                           |
|   | CAN Controlled Joystick 2                             | ✓             | ✓        | ✓         | ✓                |                           |
|   | Energy Storage Control Module                         | ✓             | ✓        | ✓         | ✓                |                           |
|   | Traction Voltage Monitoring Unit                      | ✓             | ✓        | ✓         | ✓                |                           |
|   | Small General Purpose Machine Electronic Control Unit | ✓             | ✓        | ✓         | ✓                |                           |
|   | Small General Purpose Machine Electronic Control Unit | ✓             | ✓        | ✓         | ✓                |                           |
|   | Small General Purpose Machine Electronic Control Unit | ✓             | ✓        | ✓         | ✓                |                           |
|   | Small General Purpose Machine Electronic Control Unit | ✓             | ✓        | ✓         | ✓                |                           |
| Small General Purpose Machine Electronic Control Unit | ✓   | ✓             | ✓        | ✓         |                  |                           |