

## Detroit Diesel Diagnostic Link 7.06

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**I. - Introducing DDDL 7.06 basic features** – This application is the electronic tool for servicing Detroit Diesel’s EPA07 and EPA10 equipped engines (S-60, MBE4000, MBE900, DD13, DD15, DD16). Note: It is not backward compatible with earlier versions of Detroit Diesel electronic systems. Those systems will continue to be serviced with DDDL 6.X. The DDEC VI electronics system contains two controllers, the MCM (Motor Control Module) and the CPC (Common Powertrain Controller). The DDEC10 system includes the MCM, CPC and ACM (Aftertreatment Control Module). DDDL 7.06 allows the user to perform the following standard operations on both engine platforms:

- 1- Perform Standard Fault Code Operations
- 2- Links to Traditional and Advanced Troubleshooting Information
- 3- Read Actual Values
- 4- Configure and Manage Parameters
- 5- Perform Service Routines
- 6- Playback Logs of All Connected Activity
- 7- Automatic Software Updates from our server

### **II - Software Enhancements**

- DDDL 7.06 and DDDL 6.46 installed together and will share the same registration key
- Compatible with Windows 7 Operating System (32 & 64 bit)
- 2010 Troubleshooting Material
- EGR Actuator Slow Learn (HDEP engines EPA 07 & EPA10)
- Established CPC passwords will now remain in tact when backdoor passwords are used
- 2007 and 2010 electronic wiring schematics added to the help file
- Test time duration for the DEF Quantity Test changed to 4 minutes
- FIS Fuel Quantity relocated to the Instrumentation panel
- FIS Pressures relocated to the Instrumentation panel
- Compare Parameters updated to allow you to close any of the source files
- Print functionality updated to capture only what is being viewed

### **III. - System Requirements**

**IMPORTANT NOTE: As the diagnostic and reprogramming software applications have evolved, the requirements for additional computer storage capacity and memory has increased. Please review these computer specifications carefully and take any necessary steps to update your hardware as needed.**

#### ***Component Minimum***

- Windows XP, Windows Vista or Windows 7 (32 & 64 bit)
- 1.8 Ghz processor
- 1.0 GB RAM
- 40 Gigabyte Hard drive with 20 Gigabyte free
- 32x CD ROM Drive
- Monitor and graphics card supporting 1024 x 768 resolution and 16-bit color
- 1 free USB port
- Internet or Mainframe Connection to DDC Server (for updates)

#### **Hardware Adapter Device (One of the following)**

- > Nexiq MagiKey device with parallel cable
- > Nexiq USB-Link with USB cable ([Required for Cascadia diagnostics](#))

**\* Laptops purchased from Detroit Diesel beginning in August 2006 meet the minimum specifications. Any purchase prior to this time may need to be upgraded.**

**Component Recommended**

- Intel® Core™ 2 Duo, AMD Athlon™ 64X2, or equivalent
- 2.0+ GHz Dual-Core processor
- 2 GB RAM or more
- 100 GB hard drive with 20 GB free space
- DVD ROM drive
- Monitor and graphics card supporting 1280 x 1024 resolution and 32-bit color
- Parallel port, three free USB ports
- High Speed Internet – Broadband Internet

**Hardware**

**Adapter device** (One of the following)

- > Nexiq MagiKey device with parallel cable
- > Nexiq USB-Link with USB cable (**Required for Cascadia diagnostics**)

**Note:** Bluetooth functionality NOT approved at this time

**Operating System** Windows XP, Windows Vista or Windows 7 (32 & 64 bit)

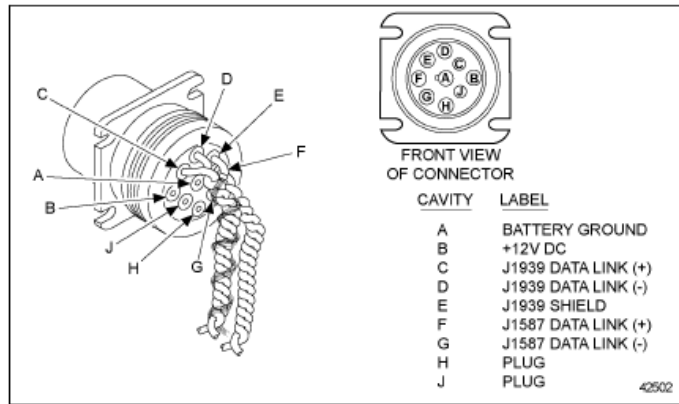
**IV. - Translator box / cables requirements** - Here are some key general points to remember when connecting to the MCM, ACM and CPC with DDDL 7.06:

1 - For DDDL 7.06 the only translator box fully validated with Detroit Diesel software applications is the Nexiq USB Link, which is RP1210A compliant with J1939 and CAN connectivity. (P/N 125032) Translators that support J-1708 communications **only** will not work with DDDL 7.06 under any circumstances.

2 - All EPA07 vehicles contain a 9-pin Deutsch connector wired to support J-1939/ CAN communications and J-1708 communications. EPA10 vehicles support J1939/CAN exclusively.

3 - All operations may be carried out on a vehicle that has both the MCM and CPC properly installed. **Note:** There must be a CPC physically present on the vehicle in order for communications to be established with the MCM.

4 - When plugging into the 9 pin Deutsch connector on the vehicle you **must** use a mating 9-pin connector fully wired to support J-1939 / CAN communications. The old style 6 to 9-pin Deutsch adapter will not work.



**Wiring for 9-pin Data Link Connector**

5 - Diagnostic adapters that will work with the DDEC VI/DDEC10 system include P/N 405048 (6 and 9-pin “Y” adapter) and P/N J-46931, the J1939 9-pin Deutsch Connector that was part of the DDEC V programming station upgrade kit.

**V. - Installing DDDL 7.06**

Before installing DDDL 7.06 you must remove any version of Detroit Diesel’s software to minimize the chance of any conflicts with older versions of the software. Please use the Windows Control Panel’s “Add / Remove Software” option to perform this operation.

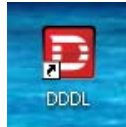
**NEW:** With this version, both DDDL 7.06 and DDDL 6.46 installed together and will share the same registration key . DDDL 6.46 cannot be used unless DDDL 7.06 is installed and registered on the same computer.

## VI – Updating your DDDL software

- 1) CD updates:
  - These will be required for major changes to the program such as changes to the graphical user interface.
- 2) Direct Server updates
  - New CBF files that will allow the user to work with updated levels of ECU software and add functionality to the tool
  - New cases for Advanced Diagnostics as they are developed from field experience
  - These updates are initiated from within the DDDL software application. An internet connection is required to use this feature.

**VI. - Registration / Support** - After the first installation of DDDL 7.06/6.46, the user will have access for a 30-day trial period. During this trial period, the user should obtain an Access Key. Follow the steps below to get a key:

- 1) Launch the DDDL Application from your desktop icon



- 2) The license panel will appear with displaying your computer ID. Each computer ID is unique to the computer DDDL is loaded on.

**NOTE: This computer ID is an example only and cannot be used to register your software.**

A screenshot of the 'License' dialog box in the DDDL software. The dialog has a blue title bar and a light beige background. It contains the following text and fields:

Please supply an access key to enable Drumroll.

Version: 07.03c-00815-00000

Computer ID: 81-20-4A-A3-D6

Access Key: [Empty text box]

You have 24 day(s) remaining of your 30 day trial period

Buttons: Register, Continue, Trial, Quit

To register Diagnostic Link 7.06/6.46, contact the Nexiq Support Center at **1-877-974-3539** with 2 pieces of information, the computer ID as shown in the picture immediately above and the numbered label on the back of the CD case. **International customers can contact Nexiq at 1-248-293-8285.** The Nexiq Support Center also provides basic support for DDDL 7.06/6.46 relating to installation and connectivity issues.

For 2007 engine electronics and mechanical information and troubleshooting contact the Detroit Diesel Customer Support Center at 313-592-5800.

**VII. – DDEC Reports 7.01** – DDEC reports is not installed with any version of Diagnostic Link, but is available on this CD at no additional charge. This version of DDEC Reports supports all current production engines platforms. **No registration is required.**

When viewing the standard trip reports, users will notice that several new terms have been added that only apply to DDEC VI and DDEC10 equipped vehicles. An updated glossary of terms used in DDEC Reports can be found in the DDEC Reports help file or by printing out the DDEC Reports Glossary from the CD menu.

DDEC Reports 7.01 uses both J-1708 and CAN messaging for communicating with the vehicle. You will connect through the vehicle's 9-pin diagnostic connector to extract data. All the translators that are designated to work with DDDL 7.06 in an earlier section of this document may be used for DDEC Reports extractions as well.