

## ALDL 16 Pin OBD2 Instructions

This package includes an ALDL Cable with a 16 pin OBD2 Connector. This cable is intended to be used with cars and trucks using GM ECM/PCM's in the 1994-1995 era, that have the OBD2 Connector arrangement yet still adhere to the OBD1 protocol. For more detailed information on any aspect of this cable, you can read information from our website at [www.aldlcable.com](http://www.aldlcable.com)

There are 2 ends to this cable: 1) a 16 pin OBD2 style connector that plugs into your car's ALDL connector under the dash, 2) a DB-9 connector that plugs into your PC computer's RS-232 serial port (or your serial port adapter if your computer only has a USB interface).

You can see a list of software packages available for your diagnostic needs on our home page at [www.aldlcable.com](http://www.aldlcable.com)

To use this cable, plug the 2 ends in securely. Start up your laptop and start whatever data collection or tuning program software you use, and turn the car key forward ( but car not running ) to light up the dash, and start the data stream flowing. Click the record button in the software package to start logging data. You can then start the car and drive around logging data. View data later on to see and review results.

**Trouble shooting:** If all the cables are connected properly, but you are still not seeing data, there are a number of things to check. When testing any cable, simply plug the ALDL end into the car connector, and then the serial port into the laptop. Start up the HyperTerminal program (usually under Start > Programs > Accessories), select a COM port (usually COM1), and select a baud rate close to the ECM's (for 8192 baud, chose 9600). As soon as you turn the car key forward to light up the dash, but car not running, data patterns start to stream across the HyperTerminal screen. At that point you know that proper communication is happening between your vehicles ECM and your laptop, and any data logging program should work.

This HyperTerminal test has got to work, or else the laptop is not talking properly with the ECM. If you are using one of the USB to serial adapters, many of these will not work properly.

The USB to serial converter that has been reported to work best is the Belkin F5U103 adapter, and these can be found on ebay for \$10 or so. You can also try to borrow a laptop (or even use a desktop system) with a standard serial port.

If you are still having problems after this HyperTerminal test, check under the device manager of the system control panel on your PC to make sure your COM ports are active and have not been disabled. If you don't see any COM ports enabled, or see red Xs or yellow circles, then you may need to go in to your BIOS and enable them. This is done as the computer boots, and you may need to read the instructions for your particular computer to see how to do this. Usually hitting the delete, F1, or F2 works, but check for your specific computer.

Next, if your COM ports are enabled properly and it still doesn't work, try this. Take a paperclip, and short pins 2 and 3 of the RS-232 port together on your PC with the HyperTerminal program open as before. While the pins are shorted, hit any key on the keyboard. If you see characters appearing on your screen, then your serial port is working fine. If you don't, then your serial port is not working, and you have something else going on. You may not have selected the correct serial port, you may have software (Palm Pilot Hot Sync) interference, or your serial port may be disabled in the BIOS. Check all these things. If all of this fails, try another computer, even a desktop PC.

If you have a 1996 or later vehicle that has a 16 pin connector, it is an OBD2 compliant vehicle and requires a completely different type of scan tool and software. Please see [www.obd2allinone.com](http://www.obd2allinone.com) to purchase.