

LWN STANDALONE

HARNESS CONNECTION INSTRUCTIONS

An OBD Scanner with Live Data capability is needed to verify sensor function and to read Fuel Rail Pressure prior to attempting to start the engine for the first time.

Ground – This is the most important connection in the harness. It must be connected to a perfect ground path to the battery. If it cannot be connected directly to the engine block and you choose to ground it to the body you must ensure that ground straps go from the battery to engine to frame and from frame to body. Do not rely on Engine or Body Mounts to complete your ground circuit. Keep in mind that without a good ground you can expect to have problems.

Red 12 Ga Wire - 12v+ Constant Battery Power Source.

Pink/Black Wire - 12V Ignition (Key On) Signal. This must get 12V with Key On and during Cranking or the engine will not start.

Brown/Blue 8 Ga Wire – Glow Plug Control Power Wire. Connect to 12v+ Constant Battery Power Source through a Maxi Fuse or Circuit Breaker rated at 100 Amps.

OBD Data - This is the CAN BUS and Serial Data. An OBDII diagnostic connector has been attached to the harness.

Pedal – Connects to a specific Accelerator Pedal as labeled.

CEL (aka MIL) Control - This is your "Check Engine" light control wire. PCM will supply a GROUND to this wire when the light should be ON. You must install a bulb and complete the circuit to a positive 12v source or a fault code will be set. An LED without a built in resistor will cause a fault code to set

WTS Control - "Wait to Start" light control wire. PCM will supply a GROUND to this wire when the light should be ON. You must install a bulb and complete the circuit to a positive 12v source or a fault code will be set.

TCC (6L50E only) - Used to control unlocking of the Transmission Torque Converter and is connected to the Brake Switch. This wire needs 12V+ when the brake pedal is depressed. Note that your brake lamps will need to be Bulbs or LED's with the built in resistor otherwise TCC will not function correctly.

Gauges – Speed, Tach, Temp, Oil Pressure are available only on the OBD Port. CAN Bus Gauges are required.

If you run into starting or running issues please visit [DmaxSwap.com](https://dmaxswap.com) and find our "Diagnostics Form" under "Resources" or go to <https://dmaxswap.com/duramax-swap-diagnostic-form/> Fill out the form completely, using Live Data from your scan tool communicating with the ECM via the OBD port. We have an orderly process which will get to the root cause and solve your issue with the least amount of frustration. Responses will be during normal business hours.

Please do not open the harness for any reason. There is nothing user serviceable inside the loom. Just like an iPhone, if you open up the harness for any reason the warranty is void.