

# L5P STANDALONE

**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.

**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. If you decide to change pedals you must contact Dmax Swap for new Connector Pin locations otherwise a different Pedal will not work correctly.

**BCM** – Body Control Module. Connect Lt. Blue, Green (and Black if applicable) Connectors to the BCM.

**RSA** – Run Start Approved Module. Connect the inline 4 pin connector to the Dmax Swap supplied module.

**CEL (aka MIL) Control** - "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.

**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** – Used to control unlocking of the Transmission Torque Convertor and is connected to the Brake Switch. This wire needs 12V+ when the brake pedal is depressed.

**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.

