

2011-2016 LML DIGITAL SWITCH

Installation Guide

Read the complete guide before beginning. Keep removed hardware organized, follow all safety precautions, and verify all connections before operating the vehicle.



11-16 LML Duramax

Digital Switch

Installation

This instruction manual covers installation of the gauge pod mount DSP/SOTF switch for 11-16 LML Duramax trucks only.

, LLC will not be held responsible for any personal, property, truck, vehicle, engine/powertrain, or transmission damage/injury that may result with the use of this module. This is an aftermarket part; just like any other aftermarket performance truck parts, install/use it at your own risk. Be sure to use caution when working around yellow connectors or wiring as these can be related to the SIR (airbag) system.

STEP 1

Unbolt the OBD2 plug.



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STEP 2

Use a small screwdriver, Remove the BLUE pin lock by releasing the 2 clip locks



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STEP 3

Remove the BLUE pin lock



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STEP 4

Insert the SOFT wire into pin 8



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STEP 5

Re-install the Blue Pinlock and re-attach the OBD2 Plug



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STEP 6

Unplug the X3 connector on the ECM Step 7 Route connector through the wheel-well, remove the plastic top cover & pin retainer



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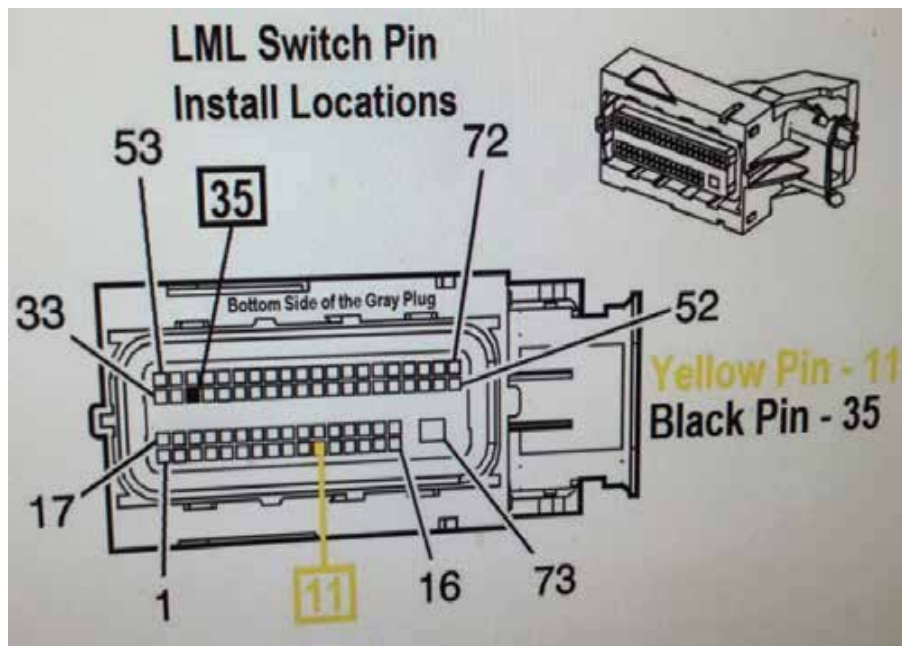
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STEP 9

Insert the new pin from the switch harness into slot 11.

STEP 8

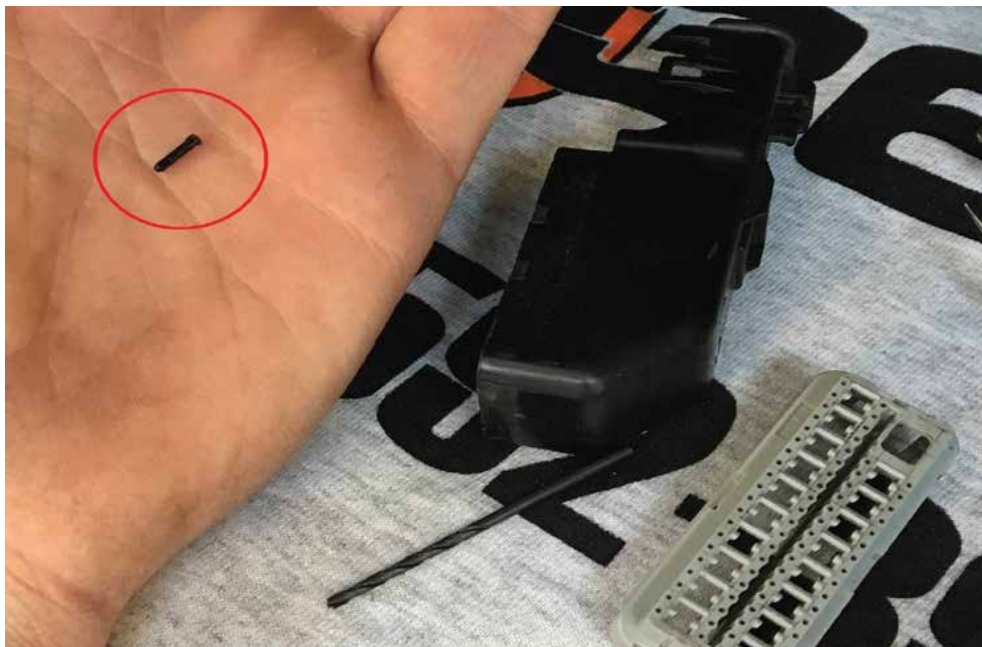
Route sOTF wires through firewall. Locate PIN 11 & push out the plastic plug from the top side down



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STEP 10

Reinstall top cover and bottom retainer. Use a zip tie to secure the loom from your switch to the X3 connector harness. Feed the harness back through the fender and into position. Reconnect the harness on the ECM, ensure that locking mechanism fully cams over. Slide the red lock tab to re-engage the lock

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STEP 11

First, plug the DSP/SOTF harness into the gauge pod switch, then connect the OBD plug on the DSP/SOTF harness into the vehicle's OBD port. Step 12 The switch should light up and turn on. NOTE: if the switch shows "-" on the display, simply press the "up" arrow button once to initialize the switch. Once initialized, the switch should show a number, 1-5, indicating which tune is currently selected.

Programming/setup procedure NOTE: The switch is set to a default mode from the factory and must be configured/setup for your particular truck. The "UP" arrow is for configuring the year/engine of truck. The "DOWN" arrow is for configuring the switch wake-up/sleep source

Truck year/engine configuration Step 1 Press and hold the UP arrow of the switch. While holding the UP arrow button plug in the OBD2 plug from the switch. The switch will power on and show P (program). Once it shows P, you can release the UP arrow.

STEP 2

The switch display will then show either "H", "1", or "2" for a few seconds, go blank for a second, then return to regular operation. "H" is 2001-2005 LB7/LLY Duramax, "1" is 2006-2010 LBZ/LMM Duramax, "2" is 2011-2016 LML Duramax and Ford Superduty 11-17

STEP 3

Each time programming mode is manually entered (following steps 1-3), the setting will step up one level (H, 1, 2), and then loop back around to "H". Once you have followed steps 1-3 the appropriate amount of times to get the "P" setting to H (LB7/LLY), you can turn the ignition OFF, wait a few seconds, and the year setting will be saved. You can re-enter programming mode (or example, if you are removing and installing the switch on a different truck) at any time by following steps 1-3.

Switch wake-up/sleep source

This programming mode is to setup the switch for automatic on/off based on CAN bus activity. When CAN traffic is detected by the switch (ie, when the ignition is turned on), the switch wakes up and turns on. When CAN traffic stops (ie, truck is shut off), the switch will wait an extra ~10 seconds, and then put itself to sleep so as not to drain the trucks battery.

The two settings on the switch are "C" for CAN bus wake up/sleep, and "D" for DISCRETE wakeup/sleep source. The "D" discrete power setting is only for 2001-2005 Duramax that does not have CAN pins wired into the OBD port and thus cannot be switched on/off automatically. "D" discrete setting for 2001-2005 Duramax simply turns the switch on/off with the ignition key.

STEP 1

Press and hold the DOWN arrow of the switch. While holding the DOWN arrow button plug in the OBD2 plug from the switch.

STEP 2

The switch will power on and show the current switch wake/sleep source. "D" (discrete, 01-05 Duramax only) or "C" (CAN, 2006+ Duramax and Ford). The switch display will then go blank for a second, then return to regular operation.

STEP 3

If the switch shows D, and returns to normal operation, the switch is configured properly.

STEP 4

To select the correct setting for switch wake-up. REPEAT steps 1-3

STEP 5

Double check on/off operation of the switch, with the key ON, the switch should be on, and the switch should then turn off as soon as the key is turned OFF. Setup Complete Double check all connections, secure/tape any extra wire, reinstall trim panels, and enjoy gauge pod digital DSP/SOTF switch!

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HIGH IDLE MODE

The gauge pod digital DSP/SOTF switch also has a manual high idle mode for faster winter warm up, jump starting other vehicles, etc. To activate the high idle mode, the truck must be in PARK and your foot must be OFF the brake pedal. Press the "DOWN" arrow several times until the switch display shows "1". When the display shows "1", press and hold the "DOWN" arrow for ~3 seconds, and the display will change to "H" (High idle). Within a few seconds, the engine should begin to increase speed to ~1200 rpm.

NOTE: on 2011-2016 LML trucks, it may take an extra ~5 seconds to engage high idle, and the RPM rise rate may appear slow, taking an extra ~10 seconds to reach the full 1200 rpm. This is normal

To exit high idle mode, press the "UP" arrow, or press the brake pedal.



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WIRE CHART

PURPLE: NOT CONNECTED

RED: NOT CONNECTED

GREEN: NOT CONNECTED

Yellow/Green: NOT CONNECTED

BLUE: NOT CONNECTED



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