2001 – 2010 Duramax EFILive V3 AutoCal ECM Flash Install Instructions

Duramax Switchable Programming (DSP5) Power Levels

2001-2004 LB7 & 2004.5-2005.5 LLY

Tune Level/ Switch Position	(Stock Trans) Engine Power levels	(Built Trans) Engine Power levels
1	+15 HP	+30 HP
2	+30 HP	+60 HP
3	+60 HP	+120 HP
4	+100 HP	+160 HP
5	+120 HP	+230 HP

2006-2007 LBZ & 2007.5-2010 LMM

Tune Level/ Switch Position	(Stock Trans) Engine Power levels	(Built Trans) Engine Power levels
1	+30 HP	+30 HP
2	+60 HP	+60 HP
3	+100 HP	+120 HP
4	+120 HP	+160 HP
5	+150 HP	+230 HP

Preparing Your Vehicle for Tuning

- Always have all the doors closed while reading or flashing the vehicle and keep them closed until process is complete. (windows can be down before starting installation for ventilation)
- Disconnect all electronic accessories from auxiliary ports prior to connecting the programmer to your vehicle's OBDII port. (ex: iPod, iPad, satellite radio, cell phone charger, GPS, radar detector, etc.)
- Turn off stereo, A/C, headlights prior to reading/installing tune.
- Disconnect any paired Bluetooth devices from radio/head unit.
- NEVER unplug the AutoCal/V2/V3 device while it is reading or flashing the vehicle.
- Do not try to install a tune on your vehicle if battery voltage is low (below 12v). Charge your battery beforehand if necessary.
- **Tip: Getting your vehicle up to operating temperature prior to flashing a tune in will prevent the glow plugs and/or grid heater from pre-heating and draining the battery voltage levels.
- Do NOT try to read/flash the vehicle while it is connected to a battery charger (unless you are using a quality charger that has a trickle charge setting and/or maintains voltage consistently without any drops/spikes in voltage levels)! Any changes in voltage during the flash procedure can result in damage to your ECM, laptop, and/or AutoCal/V2 device.
- If your vehicle is attached to a trailer, make sure the brake light receptacle outlet and plug are disconnected.

2001 – 2005 Duramax Fuse Removal

Remove the fuses that correspond with your year vehicle before connecting the AutoCal

Year	Engine	Pull Fuse	Pull Fuse	Pull Fuse	Pull Fuse	Fuse Locations
2001	LB7	SEO-1	SEO-2			Driver-side dash fuse panel
2002	LB7	SEO-1	SEO-2			Driver-side dash fuse panel
2003	LB7	TBC BATT	TBC IGNITION	INFO	RADIO	Driver-side Engine Bay Fuse Box
2004	LB7	TBC BATT	TBC IGNITION	INFO	RADIO	Driver-side Engine Bay Fuse Box
2004.5	LLY	TBC BATT	TBC IGNITION	INFO	RADIO	Driver-side Engine Bay Fuse Box
2005	LLY	TBC BATT	TBC IGNITION	INFO	RADIO	Driver-side Engine Bay Fuse Box

Installation Guide

Step One: Reading Out the Stock Calibration

1. Plug the AutoCal into the truck's OBD II port using the supplied cable

2. Turn the ignition to the ON position - do **<u>NOT</u>** start the vehicle!

3. With the AutoCal in hand - select "**Tuning Tool**" - Press the "✔" button

4. Select "**F1: Tuning**" - Press the "✔" button

5. Select "**F1: Read Tune**" - Press the "✔" button

6. Select the correct ECM Controller for your vehicle - **<u>E54</u>**(01-04 LB7) or **<u>E60</u>**(04.5-05 LLY) or **<u>E35A</u>**(06-07 LBZ) or **<u>E35B</u>**(07.5-10 LMM) - Press the "✔" button

7. The AutoCal will begin Reading the factory calibration (If Error **$0537** occurs please follow the on-screen instructions then proceed to **Step Two: Flashing the PPEI Calibration)**

8. When the AutoCal finishes reading the factory calibration the AutoCal will display a prompt "**Ignition Off Now!**" - Turn the key off and Press the "✔" button

9. A countdown will begin, once the countdown is completed you may proceed to Step Two.

Step Two: Flashing the PPEI Calibration File

1. Turn the ignition to the ON position - do **<u>NOT</u>** start the vehicle!

2. With the AutoCal in hand - select "**Tuning Tool**" - Press the "✔" button

3. Select "**F1: Tuning**" - Press the "✔" button

4. Select "**F3: Program Full**" - Press the "✔" button

5. Select the program you wish to install (**scroll down and select your tune file**) - Press the "✔" button

6. "**Attention**" agreement. If you agree - Press the "✔" button

7. "**Warning**" agreement. If you agree - Press the "✔" button

8. The AutoCal will ask if you want to "**LICENSE ECU NOW**" - Press the "✔" button

9. It will now ask "**Are you sure**" - Press the "✔" button

10. The AutoCal should then say "**Please Wait…. Erasing… Flashing**" with a percentage (%) below it. The flashing process takes approximately 4-7 minutes

11. When the flash process reaches 100% the AutoCal will prompt you to turn the "**Ignition Off Now!**" - Turn the key off and press "✓" - a countdown will begin

12. Once the countdown has completed, the vehicle has been tuned. You may disconnect the AutoCal from the OBDII port

13. Reconnect/reinstall any fuses and accessories that may have been removed before starting the vehicle

14. The vehicles ECM has successfully been programmed – you may start the vehicle