



SAMEDAYTUNING.COM | Diesel & Gas Tuning

2001-2010 Duramax EFI Live Autocal Installation & Tuning

Duramax Switchable Programming (DSP5) Power Levels *** IF PURCHASED***

The power levels referenced below are a guide. Due to the nature of the custom tune process and variations in customer ordering and miles on vehicle, actual results will vary.

2001-2004 LB7 & 2004.5-2005.5 LLY

Tune Level/Switch Position	Stock Transmission DSP5 Tunes	Built Transmission DSP5 Tunes
1	+ 15HP	+ 30HP
2	+ 30HP	+ 60HP
3	+ 60HP	+ 120HP
4	+ 100HP	+ 160HP**
5	+ 120HP	+ 230HP**

2006-2007 LBZ & 2007.5-2010 LMM

Tune Level/Switch Position	Stock Transmission DSP5 Tunes	Built Transmission DSP5 Tunes
1	+ 30HP	+ 30HP
2	+ 50HP	+ 60HP
3	+ 100HP	+ 120HP
4	+ 120HP	+ 160HP**
5	+ 150HP**	+ 230HP**

Single tune profiles will be listed on the AutoCal in accordance with the below table

**** LIFT PUMP REQUIRED**

Preparing Your Vehicle For Tuning

1. 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)
2. 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.)
3. Turn off stereo, A/C, headlights prior to reading/installing tune.
4. Disconnect any paired Bluetooth devices from radio/headunit.
5. NEVER unplug the Autocal/V2 device while it is reading or flashing the vehicle.
6. Do not try to install a tune on your vehicle if battery voltage is low (below 12v). Charge your battery beforehand if necessary.
7. **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.
8. 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.
9. If your vehicle is attached to a trailer, make sure the brake light receptacle outlet and plug are disconnected.

Duramax Fuse Removal **Remove the fuses that correspond with your vehicle year before connecting the Autocal and or V2

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 AND RADIO AMP	Driver-side Engine Bay Fuse Box
2005	LLY	TBC BATT	TBC IGNITION	INFO	RADIO AND RADIO AMP	Driver-side Engine Bay Fuse Box

Step Two: Flashing The Tune File

**** If you are flashing an LB7 or LLY ENSURE you have pulled the above fuses first!****

1. **Plug** the AutoCal into the truck's OBDII using supplied cable (if not already connected from Step One above).
2. **Turn** the key to the "RUN" position, do NOT start the vehicle!
3. **Scroll** down (using the right button) to "Tuning Tool" and hit "OK" (skip this step if you just read out your stock file from Step One above).
4. **Scroll** down to "Program Full" and press the "OK" button
5. **Scroll** down to find your tune file. This will typically be named something like LLY DSP5, LMM_ST, TCM_MOD, or a single tune (ST)) & press "OK" the screen will say "Checking to 100%".
6. It will ask if you want to "LICENSE ECU NOW?" (will only be displayed the first time you flash the truck with your Autocal/V2) - press "OK".
7. It will now ask "Are you sure?" - press "OK" to proceed with the flashing procedure.
8. The AutoCal should now say "Please Wait.... Erasing... Flashing" with a percentage (%) below it. The flashing process takes approximately 4-7 minutes.
9. When the flash process has completed successfully, and it reaches 100%, the AutoCal will prompt you to turn the "Ignition Off Now!" - Turn the key off and press "OK". Once the countdown has completed, you can disconnect the Autocal from the OBDII port, and start your truck! (** Note: Be sure to replace/reconnect any fuses and/or accessories that were removed prior to the tuning process! **)