



**2001-2004 GM Duramax 6.6L LB7
Power Edge LB7 EZ
Installation Instructions and Manual**

OLD P/N: Ezc1000
NEW P/N: 20200



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Manual Version 6

THIS IS A HIGH PERFORMANCE PRODUCT. USE AT YOUR OWN RISK.

Do not use this product until you have carefully read the following agreement.

This sets forth the terms and conditions for the use of this product. THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

DISCLAIMER OF LIABILITY

Edge Products, LLC, MSD Ignition, and their successors, distributors, jobbers, and dealers (hereafter **SELLER**) shall in no way be responsible for damage resulting from incorrect use of this product. The BUYER/USER assumes all responsibility for any damage resulting from the use or misuse of this product. THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.

The **BUYER** acknowledges that he/she is not relying on the **SELLER's** skill or judgment to select or furnish goods suitable for any particular purpose and that there are no liabilities which extend beyond the description on the face hereof and the **BUYER** hereby waives all remedies or liabilities, expressed or implied, arising by law or otherwise, (including without any obligations of the **SELLER** with respect to fitness, merchantability and consequential damages) or whether or not occasioned by the **SELLER's** negligence.

The **SELLER** disclaims any warranty and expressly disclaims any liability for personal injury or damages. The **BUYER** acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the **BUYER** agrees to indemnify the **SELLER** and to hold the **SELLER** harmless from any claim related to the item of the equipment purchased. Under no circumstances will the **SELLER** be liable for any damages or expenses by reason of use or sale of any such equipment.

The **SELLER** assumes no liability regarding the improper installation or misapplication of its products.

It is the installer's responsibility to check for proper installation and if in doubt, contact the manufacturer.

LIMITATION OF WARRANTY

Edge Products, LLC, MSD Ignition, (hereafter "**SELLER**") gives Limited Warranty as to description, quality, merchantability, fitness for any product's purpose, productiveness, or any other matter of **SELLER's** product sold herewith. The **SELLER** shall be in no way responsible for the product's open use and service and the **BUYER** hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by **SELLER** and **BUYER**.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained within the product's kit. All products that are in question of Warranty must be returned shipping prepaid to the **SELLER** and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Edge Products Inc. Under no circumstances shall the **SELLER** be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

If the **BUYER** sends back a failed unit that is out of warranty and chooses to buy a refurbished unit, the refurbished unit will only carry a 60 day warranty. If the **BUYER** purchases a new unit at a predetermined discounted rate, it will have the standard 1 year warranty

Under no circumstances will the **SELLER** be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT, THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN SIXTY (60) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND.

IMPORTANT INFORMATION ABOUT YOUR VEHICLE'S WARRANTY — PLEASE READ!

Many of our customers ask, “Will your product void my vehicle’s manufacturer’s warranty?” While the answer is straightforward from a legal standpoint, it’s important to educate our customers (and all aftermarket consumers) on some industry realities and offer some common sense precautions to minimize your risk. Edge is committed to providing quality products that are safe to use. Our products do not cause damage to a vehicle when used as intended. *Please keep in mind that towing in anything higher than the towing level and hard driving in race or extreme performance levels is not recommended.*

Consumers of aftermarket products are protected by the Federal Magnusson-Moss Warranty Act. The Act states that if something breaks on your vehicle and you take it in for warranty repair, the dealer must honor your warranty unless whatever modifications you have added to your vehicle actually caused the problem in question.

However, the reality is that many dealerships have been known to void warranties on vehicles that use aftermarket products as a matter of policy. This applies in particular to those aftermarket products that produce horsepower, such as performance enhancement “chips,” modified intake manifolds, or aftermarket exhaust systems, regardless of product brand.

You have strong legal protection as a consumer in regard to your vehicle’s warranty. However, Edge strongly recommends you always disconnect and remove your module/programmer and monitor when you take your vehicle to a dealer for warranty work. In addition, leaving the product connected may affect dealer diagnostic analysis and CAN tool functions. Edge makes every effort to produce product that can be easily removed. **Note:** *Even if you remove your unit, your dealer can detect the use of any programmer—even if the unit has been removed.*

Thank you for purchasing the Power Edge EZ Module for the Chevy/GMC Duramax® Diesel LB7. The Power Edge EZ Module has been developed and produced from the highest quality materials available to ensure the best performance for years to come. If you have any concerns or questions, please contact us.

Note: *This warranty is void for any new products purchased through auction websites. Warranty is valid only for new products purchased through Authorized Dealers (proof of purchase required for all warranty claims).*

Warning: Do not stack the Edge LB7 EZ with the Edge LB7 Juice. It can cause severe damage to the engine.

Because the Power Edge EZ module is a high performance product, it is strongly recommended that EGT gauges and Boost gauges be installed with the use of this product.

If you have used another tuner/programmer on your truck, you will need to program your truck back to stock before using the Power Edge EZ Module.

Failure to return to stock may result in PCM failure or engine damage.

Programming your vehicle may expose existing defects in your vehicle's PCM that could disable your vehicle. It is advised that you do not program your vehicle in remote locations in case of vehicle failure.

All Edge modules and programmers are built to operate with OEM calibrations. When you take your vehicle to a service center they may, by your request or otherwise, update your vehicles calibrations. Therefore it is important that you return your vehicle to stock before taking it in for service. Edge updates its active products (i.e. those currently being manufactured) to work effectively with updated OEM calibrations. However, this process can take some time as Edge is not always made aware of calibration changes made by the OEM. In the case of discontinued products, Edge cannot ensure that your unit will work effectively if you take your vehicle to a dealership and you are given, by your request or otherwise, a new calibration.



About the Edge LB7 EZ

Thank you for purchasing the Power Edge LB7 *EZ* Module for the Chevy/GMC Duramax® Diesel LB7. The *EZ* module has been developed and produced from the highest quality materials available to ensure the best performance for years to come. If you have any questions, please contact Edge Products. We will be very happy to answer your questions about our complete product line (1-888-360-3343).

The *EZ* Module is an add-on Engine Control Module (ECM) for the Duramax® Engine that offers additional features not available with the factory setup. Since it is an add-on ECM, it uses all the factory data, and then enhances the factory settings to optimize your truck's performance.

These features include:

- Engine temperature monitoring and power increase from the *EZ* module as engine reaches operating temperature
- Three selectable power level settings that can be changed on the fly
- Smart power control during torque converter lockup to allow a smooth, easy torque converter clutch lock-up

The *EZ* module offers a large power increase over stock throughout the rpm range, but the power is most noticeable in the midrange rpm's. This greatly improves drivability and towing performance. Transmission downshifting is greatly reduced, especially while passing or towing.

The *EZ* also regulates power delivery based on engine temperature. This means that while the engine temperature is below 140° F no additional fueling is delivered. At 140° F the module begins delivering fuel at 25% of the calculated additional fuel, and the percentage increases as the engine temperature increases, until at full engine temperature (174° F) the *EZ* delivers 100% of the calculated additional fuel.

Installation Instructions

Supplied Items:

1. Velcro Mounting Strips
2. Power Edge *EZ* Module
3. Nylon Cable Ties
4. 3-position Power Switch

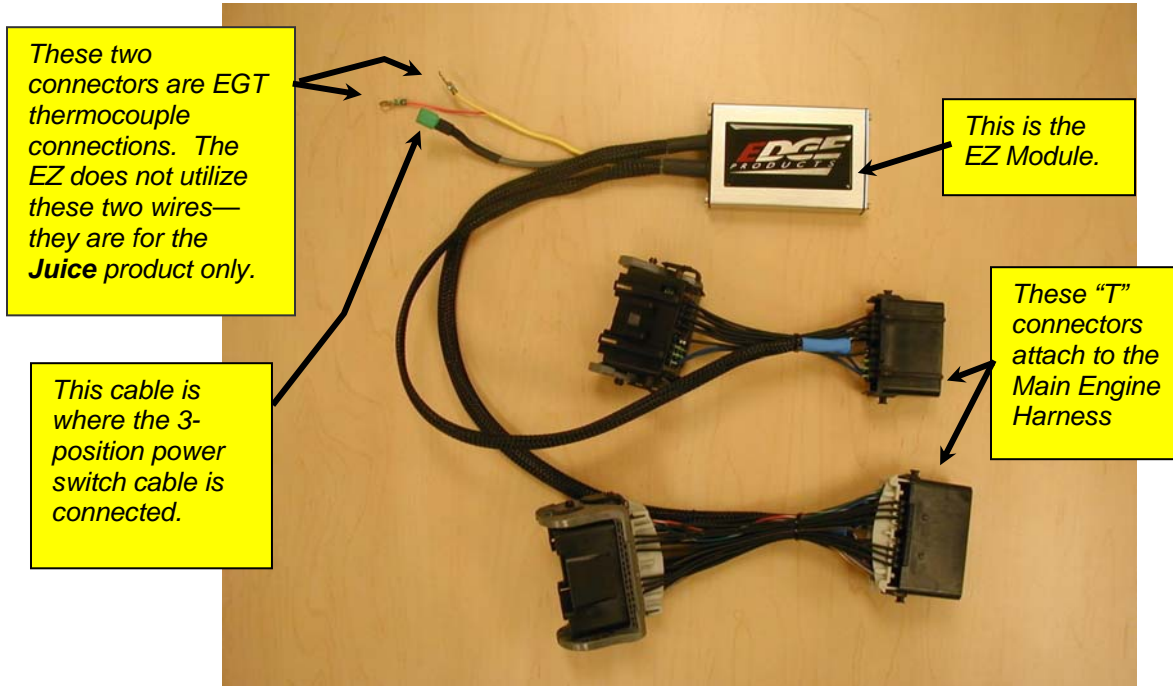
Required Tools:

None

Please read these instructions completely so that you understand each step prior to installation.

The Power Edge LB7 *EZ* Module

This picture shows the Power Edge LB7 *EZ* Module with the harness cable.

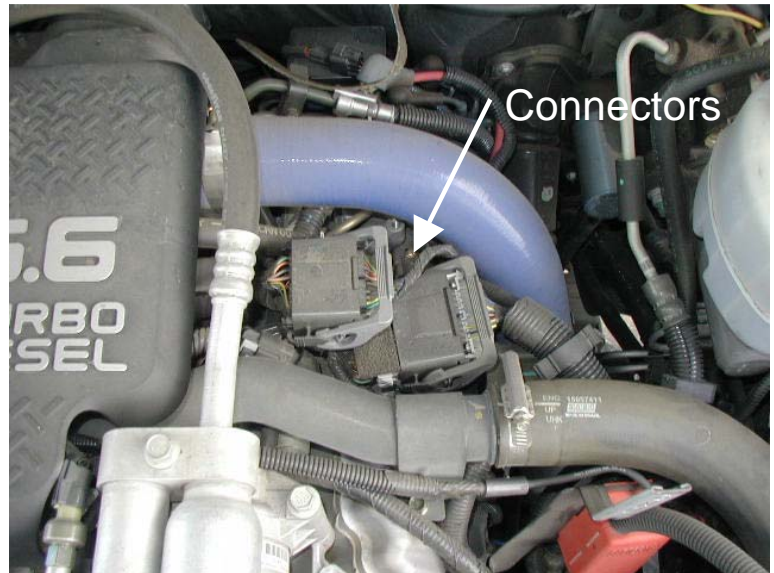


Installing the EZ Module

1. The Power Edge LB7 *EZ* Module can mount on top of or to the side of the black plastic fuse box cover located on the driver's side fender. Adhere the module using the supplied Velcro, allowing enough harness movement for removal of the cover.

Connecting the Harness

2. Disconnect both stock connectors by squeezing the ears on the backside of the connector and pulling the gray lever.
3. Gently insert the *EZ* connectors and lock in place with the gray levers, and then gently connect the stock connectors to the other end of the *EZ* connectors.



Caution: When inserting connector bodies. If the connector does not slide smoothly, remove the connector, inspect the pins, and retry installation.

4. Connect the 3-position switch to the green connector (shown in Figure #1). Run the cable through the firewall and mount somewhere in the cab.

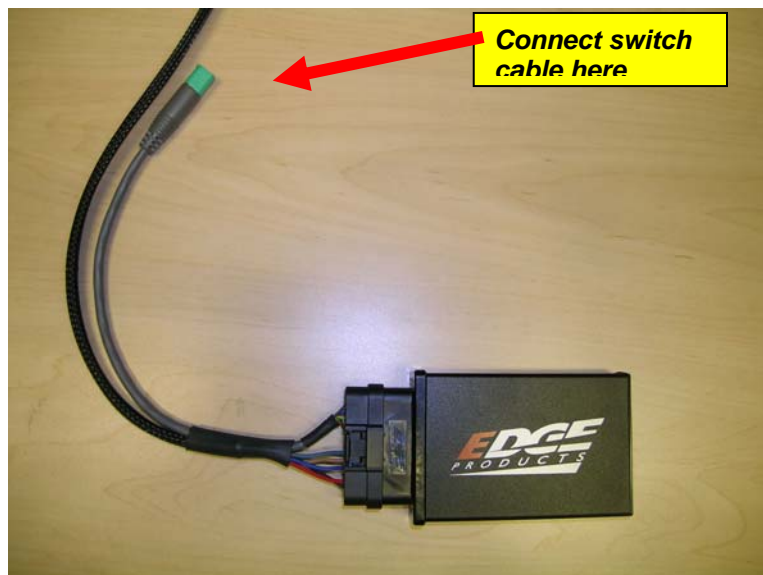


Figure #1 (Switch Connection)

5. The Switch cable can be routed through the firewall at a location with a grommet or hole, where cables currently pass through the firewall. A good location is shown between the fuse box and firewall above the wheel well. (as shown in Figure #2) After routing the switch under the dash, mount the switch to the lower dash panel at the left of the steering column. (**Note:** *The cable and switch may also be routed around the outside door pillar and placed on the dash.*)

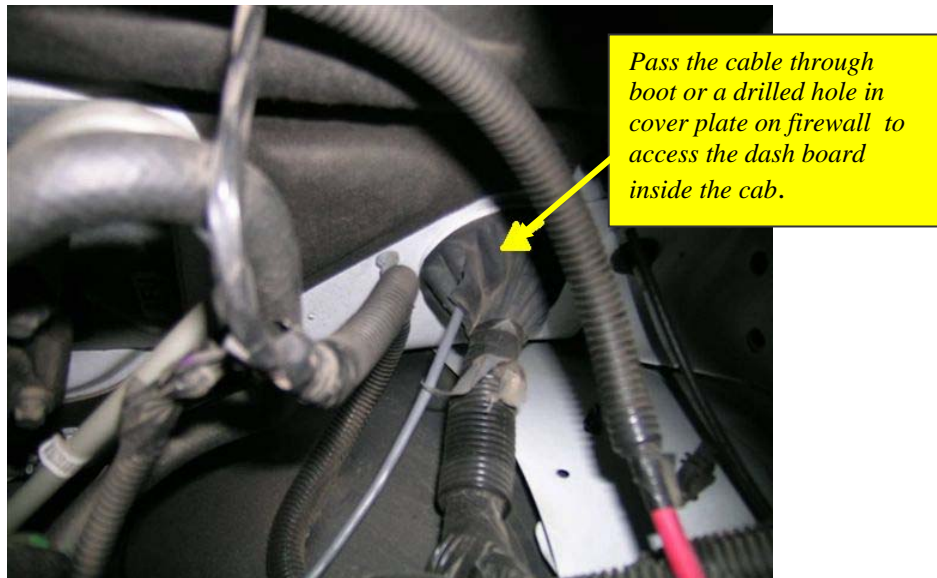


Figure #2

6. Using a 1/4 inch drill, carefully drill a hole through the lower plastic dash panel. Insert the switch through the hole and secure in order: the tab ring, internal star washer and then tightening the nut. **Caution:** *Make sure the location you select to drill the hole does not drill into wires or other critical components.*

Final Inspection

7. Recheck all connections for a properly secure installation. Using the supplied wire ties, secure the wiring harness to prevent possible damage.
8. Start the engine. The engine should start and run like a stock truck. If the engine does not start or run properly, turn off the motor, remove the keys from the ignition, then remove the EZ module and inspect the pins inside both connectors. Straighten pins or clear foreign material from the pins and connector surfaces, then re-install the connectors. If failure conditions still exist, contact your dealer or Edge Products, LLC. When trying to restart, make sure that the key has been turned off for at least 10 seconds before cranking the engine.

Using the Power Edge LB7 EZ

Adjusting Power Levels

The *EZ* has three power levels. The *EZ* module was designed to allow the user to select any of the three power levels on the fly with the supplied three position switch. Level 3 is with the switch towards the tab.

Power Levels

The *Edge EZ Module* offers three levels of power beyond stock. The power levels are adjusted by changing the “in cab” switch position to the level you need. Adjusting power levels on an *EZ* module has never been EZier!

Refer to the power level switch picture for position and power level selection.

(Level one is position farthest from tab and level three is closest to tab.)



Power Gains

The following power gains are representative of an actual test vehicle. These gains were measured on a Super Flow Dyno at an altitude of 4400 ft above sea level, and represent power delivered to the rear wheels of the test truck. The only modification made to the test truck was the addition of the Power Edge *EZ* module. Power gains may vary somewhat on a different vehicle or in different geographic settings.

	Horsepower	Torque
Level 1:	30	120
Level 2:	50	150
Level 3:	65	180

Towing

It is recommended that you use the Tow/Haul transmission mode while towing. This provides torque converter lockup in gears 2-5, which reduces transmission heat and also raises the shift rpm threshold to keep the rpm's higher. It is recommended that you maintain engine rpm above 1800 while towing.

While towing, the *EZ* module allows the engine to pull many grades in the mid rpm's rather than having to downshift and pull them in the high rpm's. This provides for lower EGT (Exhaust Gas Temperature) with the same power output. EGT rises significantly with rpm--especially above 2500. It is highly recommended that you install an EGT gauge while using the Power Edge *EZ*.

Power Level 3 is not recommended for towing situations.

Warning: *It is recommended you use only power levels 1 or 2 for towing, due to transmission and engine stress. Do not exceed your vehicle's max GVWR as outlined in the vehicle's owners manual.*

Making Sense of it All

This section is designed to help you understand how the additional power will change your driving experience as well as help you figure out what power level will best suit your driving style.

The first thing you will probably notice is improved performance, especially if this is your first time driving a diesel truck with a performance module. You will experience more power, better throttle response, better passing and acceleration and possible better fuel economy. Power level one is specifically designed to maximize fuel economy improvements.

If you are towing, the beauty of the extra power the Edge *EZ* module delivers is that not only will you be able to maintain speed going up a hill, but the added power will also keep you in a higher gear, so your transmission will not keep “hunting” for lower gears. We recommend level 1 or level 2 for towing applications. Only use level two if you are towing a light load. Level 3 should never be used while towing. Level 3 is a great overall driving level. When driven responsibly, and used with an EGT gauge, level 3 will not stress the stock engine or transmission as long as you are not towing.

EGTs: What they mean and why

EGT stands for exhaust gas temperature, and is the single most important indicator of how a diesel engine is performing. Unlike a gasoline motor, a diesel motor will continue to make power as more fuel is added. As more fuel is added, heat will be generated until the motor just gets too hot and things start to melt. This is a situation you want to avoid. Exhaust gas temperature is the ideal measurement of how hot the motor is, since temperature fluctuations in exhaust gas are almost instantaneous. Just so you know, it is possible to generate excessive EGT on a stock truck, particularly if you are towing. This is why we always recommend installing an EGT gauge.

In our experience 1350 degrees is about as high as you want to let your EGTs go. Keep in mind, the stress on your engine created by the heat is a function of both temperature and time. A brief spike to 1400 that lasts a second is not that big a deal. Pulling up a hill for several minutes at 1400 is far worse.

As you drive your truck in the various power settings, keep your eye on the EGTs. Depending on how you drive and where you drive, you may find a particular power level is more suitable to your power needs.

The EZ Module and your Transmission

The automatic transmission has a fluid-filled clutch-like device called a torque converter. This device uses the spinning motion of the motor to drive the transmission which drives your wheels. As the truck speed stabilizes, the torque converter engages a mechanical connection which locks the two halves of the torque converter, so the output shaft is going the same speed as the input shaft. This mechanical linking of the two halves is called ***Transmission Lock-up***. If the motor produces too much power, this mechanical lock-up can start to slip. When this slippage occurs, the *EZ* module reduces the power output to allow the transmission to function properly. This is a great feature that provides an extra level of protection for your vehicle.

Transmission Relearning

The Allison transmission is a “Smart” transmission. That means that it pays attention to how smoothly the transmission is changing gears, and modifies the shifting to improve drivability. When the motor delivers more power (by adding the *EZ* module), the transmission has to ‘re-learn’ how to shift. After first installing the *EZ* module, you may notice rough shifting. The best way to re-teach the transmission is to set the truck in the power level you will be using most of the time. Then set out to drive, some city, some highway, varying the driving and the speed. Make sure that you shift through each gear 20 to 30 times. A good rule of thumb would be 100 to 200 miles. Remember that the truck must go through each gear 20 to 30 times. You will notice the shifting becoming better, and your truck responding better to the additional power as you go through the learning cycle.

Technical Support

Edge Products Technical Support

(888) 360-EDGE

Please have the Part Number, the Version Number and Manufacture Date prior to calling Tech Support. This will help ensure quick and accurate support.