



Cummins-2003-2007 Dodge ®
305/600/610
Edge EZ Module
Installation Instructions and Manual
P/N: 30203/30204



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Manual Version 7

The EZ Module is a high performance product
It is strongly recommended that EGT and boost gauges
be installed when using this product. This product is not
intended to be used to break any law including emissions
standards.
USE THIS PRODUCT 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 and its successors, distributors, jobbers, and dealers (hereafter **SELLER**) shall in no way be responsible for the product's proper use and service. 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 (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, LLC

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.

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS.

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 after-market consumers) on some industry realities and offer some common sense precautions to minimize your risk.

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.

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 level two and hard driving in levels four and five are not recommended. 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. Any aftermarket company that does not acknowledge this is misleading you.

Although you have strong legal protection as a consumer in regard to your vehicle’s warranty, the practical reality is that taking legal action against a dealer or manufacturer to fight a voided warranty is a costly and time-intensive process. For this reason, Edge strongly recommends **you always disconnect and remove your module/programmer and monitor when you take your vehicle to a dealer for warranty work.** It is also for this reason that Edge focuses the bulk of their product development efforts on producing modules and digital monitors that can be easily removed. Even if you remove your unit, you should note that dealers can detect the use of ANY programmer — Evolution or otherwise — even if the unit has been removed.

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 Dodge EZ

Introduction

Thank you for purchasing the *Edge EZ* Module for the Dodge Cummins® 5.9L Diesel. The *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 questions, please contact Edge Products. We will be very happy to answer your questions about our complete product line.

- The *Edge EZ* Module is an add-on Engine Control Module (ECM) for the Cummins® 5.9L Engine that offers additional features not available on a stock engine. 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.

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

Dodge Cummins 5.9L EZ Installation

Supplied Items:

1. Edge EZ Module
2. Three Wire Ties
3. Two Velcro Strips
4. 3 Position Toggle Switch
5. Brass Elbow (optional for 03'-04' 305hp Motors ONLY)

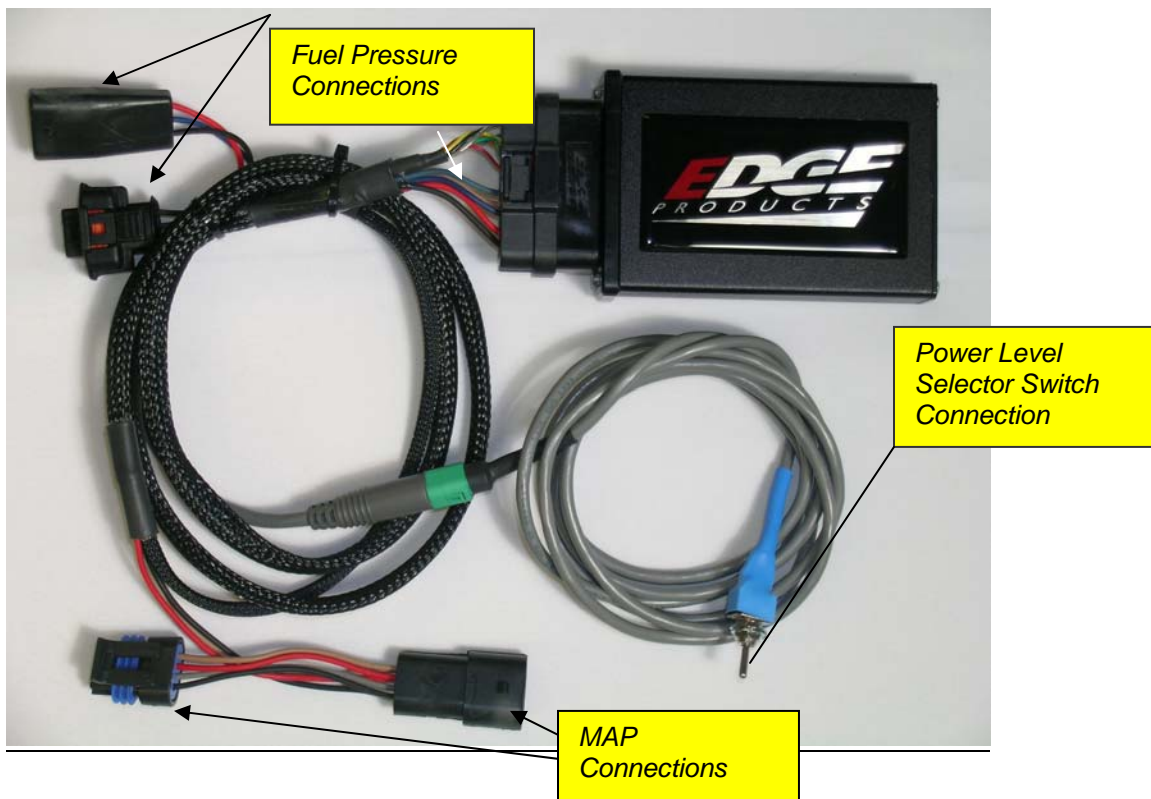
Tools Required: (Only for 03'-04' 305hp Boost elbow installation)

1. 5/16" & 1/4" Socket
2. Pliers
3. 7/16" Wrench

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

The Edge EZ Module

This picture shows the Edge EZ Module with the harness cable



Module Installation

The *Edge EZ Module* can mount on the flat black plastic fuse box cover located in the engine compartment on the driver's side fender. Attach the module to the truck using the supplied VELCRO® strips, allowing enough harness movement for removal of the cover.

Harness Connector – Your EZ module may be equipped with a harness that can be disconnected at the EZ module itself (See figure 1A). It is important to make sure that your EZ module is always connected to the harness when the wiring harness is connected to the truck, otherwise the truck may not run properly, or may trip engine “codes.”



FIGURE 1A

MAP (Manifold Absolute Pressure) Connection

1. Connect the supplied MAP sensor wiring harness to the main wiring



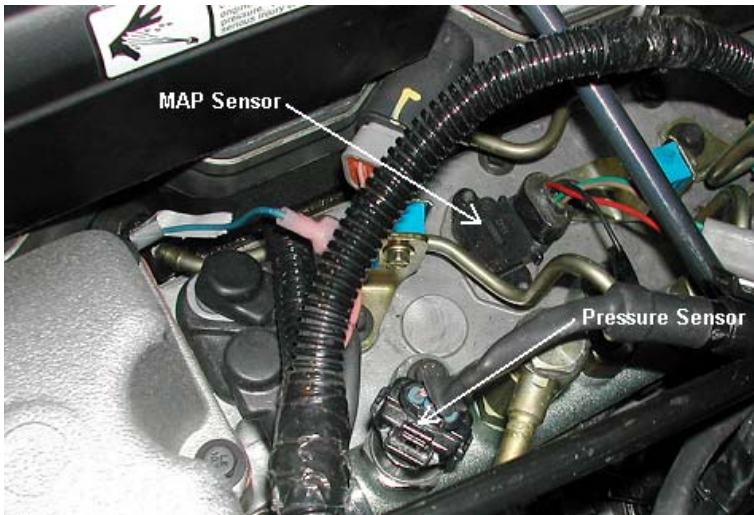
harness in the engine compartment.

Disconnect the stock wiring harness at the MAP sensor located on top of the intake manifold. Plug the supplied MAP sensor connector into the stock engine MAP sensor and the stock engine wiring

harness connector into the supplied MAP sensor connector.

Fuel Pressure Sensor Connection

2. Disconnect the stock wiring harness at the sensor located on the main fuel rail on the driver's side towards the rear of the engine. Plug the supplied



pressure sensor connector into the stock pressure sensor on the engine and the stock engine wiring harness connector into the supplied pressure sensor connector.

Final Inspection and Operation

3. Recheck all connections, fittings and fasteners for a properly secure installation.
4. Using the supplied wire ties, secure the wiring harness from possible damage from moving engine parts.

Boost Elbow Installation (Optional for 03-04 305hp ONLY)

The installation of the brass elbow permits turbo boost pressures of greater than 20 psi without the wastegate opening. The *Power Edge EZ Module* will operate equally well with or without this installed.

5. Using the 5/16" socket, loosen the two clamps securing the air induction hose to the air filter housing and the turbo inlet. Remove the hose and set it aside.
6. Using the pliers, remove the crimp style clamp from the hose on the brass fitting located on the now exposed lower front side of the turbocharger. Remove the hose from the brass fitting and dispose of the crimp style clamp.



7. Using the 7/16" wrench, unscrew the stock brass fitting out of the turbocharger housing. Using the 7/16" wrench, install the supplied brass fitting, tighten-be careful not to over-tighten. Slip the supplied hose clamp onto the stock hose, install the stock hose onto the supplied brass fitting and tighten the hose clamp with the 1/4" socket. Reinstall the stock air hose onto the air filter housing and turbocharger inlet. Using the 5/16" socket, tighten both clamps securely.

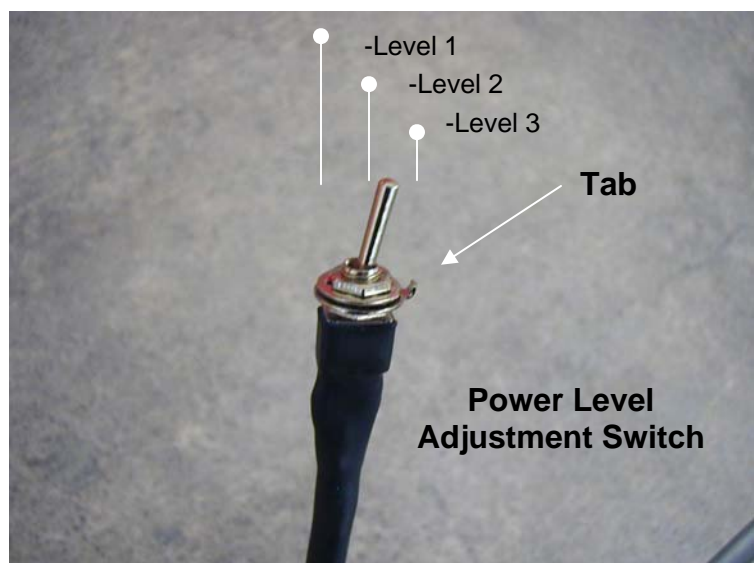
- Using the 7/16 deep socket tighten all of the intercooler hose clamps on the air intake.



Adjusting Power Levels

The *Edge EZ Module* offers 3 levels of power beyond stock. The power from the *Edge EZ Module* begins by plugging the module into your truck. 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.



Power Levels

Expected output power and torque

The following power gains are representative of an actual test vehicle. Power gains may vary somewhat on a different vehicle or in different geographic settings.

	Horsepower	Torque
Level 1:	25	50
Level 2:	45	100
Level 3:	65	150

How to Use Your Edge EZ Module

Using your Edge EZ Module

This section is to help you use the Edge EZ module effectively and add enjoyment to your diesel truck experience.

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 even better fuel economy. Power level one is specifically designed to maximize fuel economy improvements.

Towing

What about towing? What can this do for you when you are towing? The great thing about *Edge EZ Module* and all the other Edge® power modules is that they were created for towing. That is why Edge built them, and why we keep making them better. Let's assume that in a stock truck you would pull your 5,000lb load up the grades in 3rd gear. Your EGT (Exhaust Gas Temperature) may run at about 1200° F. With the EZ module on level 2, you have effectively increased the horsepower by 45, and the torque by 100 Foot-pounds. That is like adding a fifth horse to pull a four horse carriage. That is representative of how much your power has increased. That means you will be running at a lower rpm and your EGT has decreased. And best of all you are going faster and the truck may have already shifted into 4th gear. Power level 3 is designed to match fueling with any additional upgrades you may have done to your vehicle. Level 3 should never be used while towing. Level 3 is designed to take advantage of the built-in safety margins the manufacture needs to add in order to make sure your vehicle can tow at its maximum capacity. 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.

Exhaust Gas Temperature

Now let's talk about the different power levels and the Exhaust Gas Temperature (EGT) readings, and what they mean. As mentioned earlier the EGT tells you how hot the exhaust gases are in the exhaust manifold coming from the engine. This is important because you shouldn't let them run for long periods above 1350 F. The higher the level, the more fuel is fed to the engine, and potentially, the higher the EGTs. Since towing is harder on the engine and the transmission, we recommend that you tow in level 1 for a heavy load, or, on a light load level 2. This will protect you from putting too much stress on the engine and transmission. Level 2 is a good all-around mode, allowing for better economy and better performance, while not stressing the engine and transmission. We recommend that you run your truck in level 2 or lower for your normal daily activities.