



2005-2006 Jeep Liberty CRD [®]
Edge EZ Module
Installation Instructions and Manual

OLD P/N: EZJ1000
NEW P/N: 30500



Table of Contents

<i>DISCLAIMER OF LIABILITY</i> _____	3
<i>LIMITATION OF WARRANTY</i> _____	3
<i>Registration</i> _____	5
<i>About the Jeep CRD EZ and it's use</i> _____	6
Introduction _____	6
Towing _____	6
Exhaust Gas Temperature _____	7
<i>Jeep 2.8LTurbo Diesel EZ Installation</i> _____	7
Supplied Items: _____	7
Tools Required: _____	7
The Edge EZ Module _____	7
<i>Module Installation</i> _____	8
MAP (Manifold Absolute Pressure) Connection _____	9
Fuel Pressure Sensor Connection _____	10
Attach and Install the 3 Position Switch _____	10
Final Inspection and Operation _____	11
Adjusting Power Levels _____	11
<i>Power Levels</i> _____	11
Power and Torque gains _____	11
<i>Technical Support</i> _____	11

© 2007 Edge Products

All rights reserved.

Edge Products

1080 South Depot Dr.

Ogden, UT 84404

www.edgeproducts.com

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 disconnect 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 Jeep CRD 2.8L Turbo 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 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).*



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. This product is not intended to be used to break any law including emissions standards.

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

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.

Registration

Thank you for purchasing a product from Edge, LLC, the leader in truck performance and power gain technology! We hope you enjoy it. Please take a few moments and go to www.edgeproducts.com and click on "product registration" to register your product.

Why register? Benefits of product registration:

- **Your Safety** – registering your product allows us to know exactly which product you have and provide important product updates to you that improve the quality and/or safety of the product
- **Enhanced Features** – almost all Edge products are easily updated via the internet. We are constantly adding new features and improvements to our product that we know you will want to enjoy
- **Confirmation of Ownership** – provides a record in case of product loss, theft, or required warranty work. When you call us for support our team will already have much of the information they need to help you.
- **Improved Product Development** – helps us better understand you (our customers) and design products that meet your needs
- **Special Offers** – allows us to inform you about special offers on accessories and/or new products that fit your vehicle and enhance your driving experience

About the Jeep CRD EZ and it's use

Introduction

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 Jeep CRD 2.8L Turbo Diesel 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 vehicles performance.

The EZ module offers a power increase over stock throughout the RPM range, but the power is most noticeable in low to midrange RPM's. This greatly improves drivability and towing performance. Transmission downshifting is greatly reduced, especially while passing or towing. You will experience more power, better throttle response, better passing and acceleration, and even better fuel economy. Level 1 is stock. Power level 2 will provide best all around performance improvement.

Towing

The *Edge EZ Module* and all the other Edge® power modules were made for performance and towing. That is why Edge built them, and why we keep making them better. Let's assume that in a stock Jeep you would pull your 1,000lb load up the grades in 3rd gear. Your EGT (Exhaust Gas Temperature) may run at about 1200° F. Level 1 is designed to take advantage of the built-in safety margins the manufacture selected in order to make sure your vehicle can operate at its maximum capacity under normal driving conditions and is recommended for all towing. With the EZ module on power level 2, you have effectively increased the horsepower by 10, and the torque by 15 Foot-pounds. 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 vehicle may have already shifted into 4th gear. In hot weather when the vehicle is warmed up and while driving in stop and go traffic power level 2 should only be used for a few minutes if towing. Power level 3 is designed to match fueling with any additional upgrades you may have done to your vehicle. Power level 3 should never be used while towing. 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 or driving in hot weather with stop and go traffic for more than a few minutes.

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 power 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 load. This will protect you from putting too much stress on the engine and transmission. Power 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 vehicle in level 2 or lower for your normal daily activities.

Jeep 2.8L Turbo Diesel EZ Installation

Supplied Items:

1. Edge EZ Module
2. Three Wire Ties
3. Two Velcro Strips
4. 3 Position Toggle Switch

Tools Required:

None

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

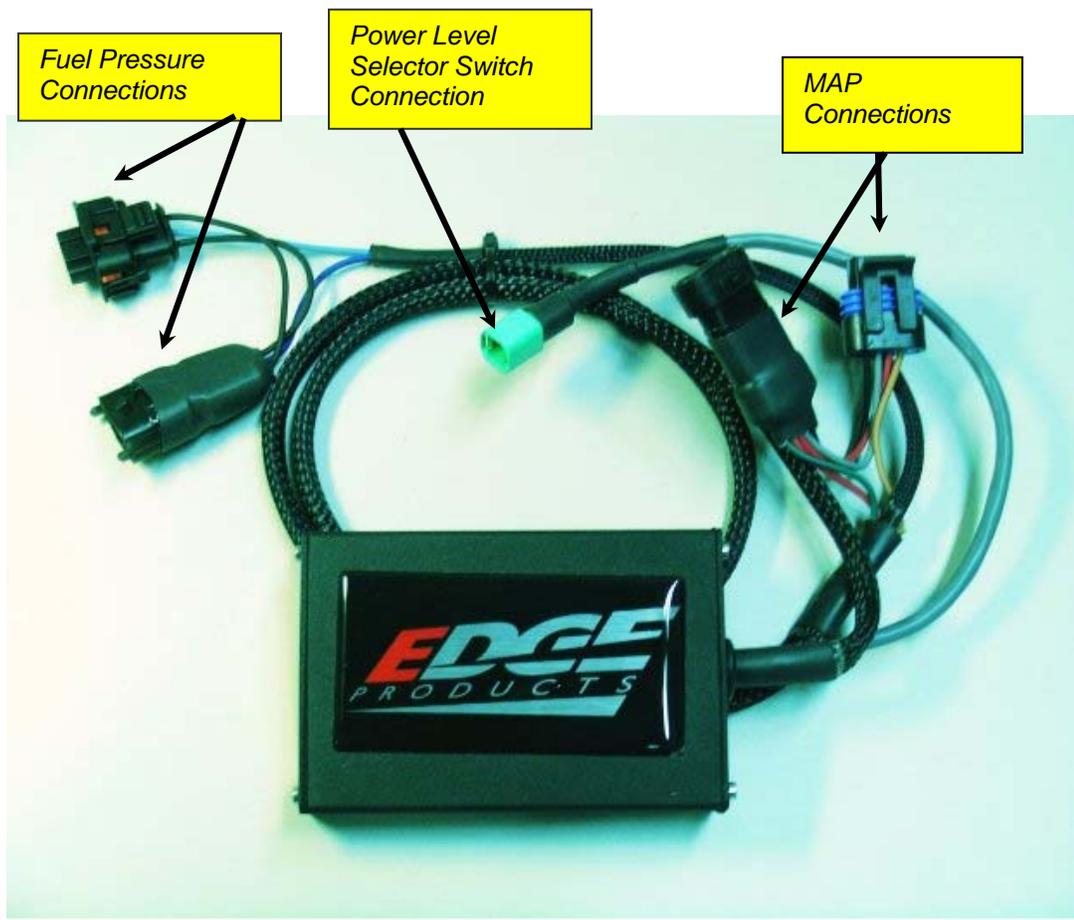


FIGURE 1A



FIGURE 1B

Module Installation

The *Edge EZ Module* can mount on the flat black plastic fuse box cover located in the engine compartment, right in front of the battery on the driver's side. Attach

the module to the top of the fuse box using the supplied VELCRO® strips, allowing enough harness movement for removal of the cover.

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



FIGURE 1C

Important: *The truck must be turned off and the keys pulled out of the ignition for at least one minute prior to installation or removal of the connectors and module.*

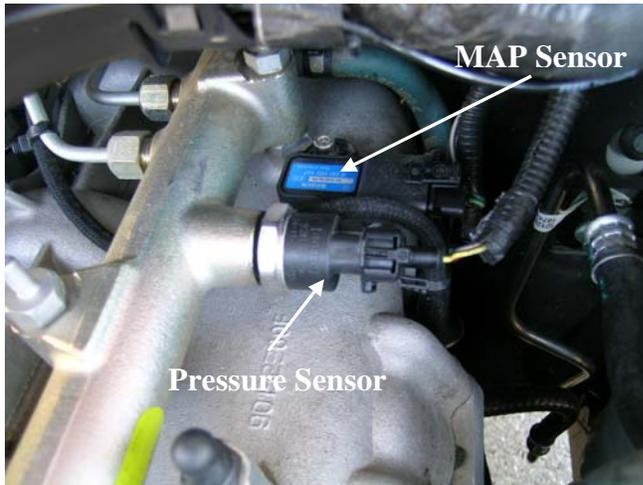
1. Remove the plastic engine cover by taking off the yellow oil cap. Replace the yellow oil cap once the cover is off to keep oil clean. Remove and replace the oil cap again when replacing the cover.



MAP (Manifold Absolute Pressure) Connection

2. Disconnect the stock wiring harness connector at the MAP sensor. The MAP sensor is located on top of the of the intake manifold towards the rear of the engine on the driver’s side. The intake

manifold is located on top of the engine. It may be necessary to move the plastic race that holds the harness on top of the engine up in order to reach the Map sensor connector. 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

3. 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.

Attach and Install the 3 Position Switch

1. Attach the 3-position switch cable with the green connector to the mating green connector on the harness (shown in Figure #1A and 1B) and pass it through or around a rubber boot in the driver side firewall behind the battery. (Look for a location where other harnesses or wires pass through firewall. You can check both the firewall and under the dash behind the panels for a grommet to pass the cable through.)

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 or routed behind the dash panel.)

2. 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.

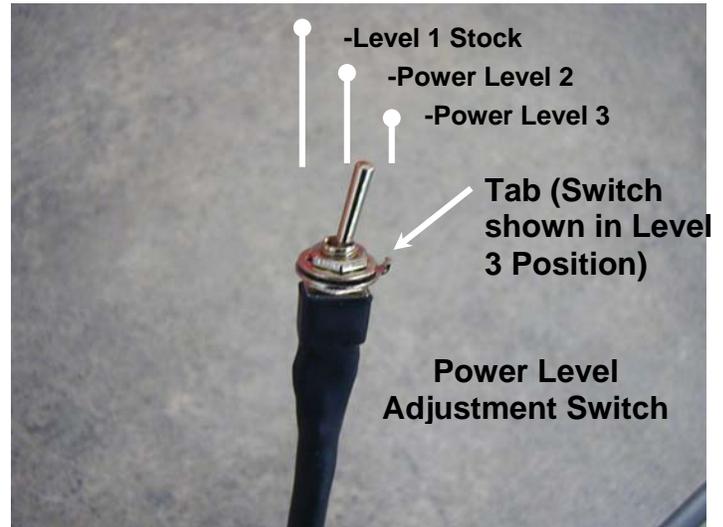
Final Inspection and Operation

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

Adjusting Power Levels

The *Edge EZ Module* offers 2 levels of power beyond stock. The power from the *Edge EZ Module* begins by plugging the module into your Jeep. 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

Power and Torque gains

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:	Stock	Stock
Level 2:	10	15
Level 3:	23	32

Technical Support **888-360-3343**

To expedite your support call, please have the part number, version number, and Date of Manufacture ready prior to calling support.