



CS/CTS

***Edge Racing Products Supplement
CS/CTS Products
Registration and Instructions***



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EDGE RACING PRODUCTS DISCLAIMER

DISCLAIMER

This Edge Racing-brand product ("this Product") is designed, and intended, only for legal, organized, closed-course, off-street racing/pulling/competition uses involving the motor vehicle in which it is installed (the "Vehicle"), and not for use on public highways, streets, and other roads. The person or entity buying this Product and/or using this Product [even if different from such buyer] (the "User") agrees to use the Vehicle only for otherwise legal, organized, closed-course, off-street racing/pulling/competition purposes in controlled environments under the auspices of a recognized sanctioning body or government permit.

Use of this Product in the Vehicle on public highways, streets, and other roads, and in some cases off-road, may violate applicable federal, state, or local clean air, emission, noise, and other environmental laws, or applicable motor vehicle, vehicle registration, traffic, and other laws. The User must review and comply, and is solely responsible for reviewing and complying, with all applicable clean air, emission, noise, and other environmental laws, as well as all applicable motor vehicle, traffic, safety, and other laws, in connection with User's installation and use of this Product with the Vehicle.

Use of this Product may violate warranties from the manufacturer of the Vehicle or from others. The User must review and comply, and is solely responsible for reviewing and complying, with the terms and conditions of any such warranty.

Use of this Product may make the Vehicle non-compliant with applicable laws, make the Vehicle capable of generating unsafe driving speeds, make the Vehicle capable of exceeding tire speed ratings, make the Vehicle capable of exceeding RPM ratings of the engine, exceed stress limits of the engine, transmission, chassis, body, and other components of the Vehicle, destroy or damage mechanical, electrical, structural, or other components of the Vehicle, may require superior driving skills and techniques to handle the Vehicle, may make the Vehicle unsafe, and may lead to personal injury or property damage. The User must ensure, and is solely responsible for ensuring, the proper installation of this Product in the Vehicle in a manner compatible with other components of the Vehicle, and in accordance with the written instruction manual of Edge Racing Products, in accordance with industry standards and in a good and workmanlike manner, and in accordance with applicable law.

The User must ensure, and is solely responsible for ensuring, the proper, legal, and safe use of the Vehicle. Use of the Product in the Vehicle is at the sole risk and discretion of the User. The User acknowledges that motor sports, racing, and other competitions are dangerous and may cause death, other personal injury, or property damage.

Except as expressly provided in the written Limited Warranty from Edge Products issued for this Product, and to the greatest extent provided by applicable law, **this Product is sold on an AS IS, WHERE AS, and WITH ALL FAULTS basis, and Edge Products disclaims any and all warranties of any kind, whether express or implied, relating to this Product, including without limitation any implied warranty of merchantability, any implied warranty of fitness for a particular purpose, any warranty as to success in races or other competition, or any warranty made by any distributor or other third party.** Any such Limited Warranty is conditioned upon the User's compliance with the terms and conditions of this Disclaimer.

To the greatest extent provided by applicable law, the User, for himself/herself/itself and his/her/its heirs, personal representatives, successors, and assigns, hereby releases, discharges, indemnifies, and holds harmless Edge Products, LLC d/b/a Edge Racing and its agents, employees, officers, managers, members, subsidiaries, parents, successors, and assigns (the "Edge Racing Parties") from any and against any and all claims, causes of action, damages, injuries, losses,

Edge Products _____ Racing Evolution CS/CTS

expenses, attorneys fees, and harm of any kind, whether or not foreseeable, directly or indirectly relating in whole or part to the use or installation of this Product in violation of the terms and conditions of this Disclaimer, any Edge Racing manual, directions, or instructions, and applicable law, any use of the Vehicle in violation of the terms and conditions of this Disclaimer and applicable law, and any other use of the Vehicle, regardless of the acts or omissions, whether negligently or otherwise occurring, of any Edge Racing Party. To the greatest extent provided by applicable law, each Edge Racing Party will not be liable for, and the User waives any right to seek against any Edge Racing Party, any consequential, indirect, special, statutory, exemplary, punitive, or incidental damages caused by the installation or use of this Product, and the liability of the Edge Racing Parties in the aggregate will be limited to the standard retail purchase price of this Product. User hereby expressly waives the provisions of California Civil Code Section 1542, to the extent applicable, which provides as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR.

Installation or other use of this Product constitutes the User's acknowledgement that the User has read and understand the warnings, cautions, terms and conditions in this Disclaimer and that the User agrees and consents to the terms and conditions of this Disclaimer; **OTHERWISE DO NOT INSTALL OR USE THIS PRODUCT.**

You may sign and accept this disclaimer electronically at www.edgeproductsracing.com. If you do not have internet access you can print this form and fill in the information on the section below. All fields are required in order to receive a product activation code. Once complete fax this form (P. 3 & 4) to Edge Products at 801-337-2198. You will then receive your code by fax, phone, or email.

_____ date ____ / ____ / ____
Signature

_____ date ____ / ____ / ____
Signature of parent or guardian (if under 18 years old)

Name: _____ Date of Birth: _____

Phone Number: _____

Address Line 1: _____

City: _____ State: _____ Zip: _____

Country: _____ E-mail address: _____

Year: _____ Make & Model: _____

VIN Number: _____

Device ELECTRONIC Serial Number: _____

LIMITATION OF WARRANTY

Edge Products, LLC, MSDP Inc., (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 90 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 THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND.

Note: *Proof of purchase required for all warranty claims.*

PLEASE NOTE, you will need to obtain an unlock code as described in the following *Registration and Unlock Racing Code* section before using the *Evolution*.

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.

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.

If you have used another tuner/programmer on your vehicle, you will need to program back to stock and remove the device before using the Edge Products Device.

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

Activate your Edge Racing Product

You will need to activate, accept the disclaimer and receive an unlock code before using the CS/CTS Product. After installing the device and while viewing the display, you will be able to view the Serial Number of the product. Please record the Serial Number and have it and product/vehicle information available when you go to the website links below. The unlock code is required before you can proceed and finish the installation.

After you finish the activation, please take a few minutes and also register the CS/CTS Product. Have the product/vehicle information available when you go to the website link.

Activate and Receive Race Unlock Code

To receive an Unlock Code and unlock your device, follow the instructions at this link and click on and read the disclaimer. <http://www.edgeproductsracing.com> The code is required to activate the device, and accept liability for use of this product in racing or competition motorsports.

After installing the device the following Race Unlock code screen will display. Record the Serial Number and have it available when you go to the website link. The Serial Number of your product is found at the top of the screen.



After completing the information at the website links, the code will immediately be emailed to the email address you have entered, and you will have electronically signed and accepted responsibility for the use of this product.

Be sure to record the Serial Number along with the unlock code when you receive it. You will need this code at a later step to finish the installation instructions or when you upgrade your product.

Serial Number		Unlock Code	
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Product Registration

To register your product, follow the instructions at this link. (Not required to activate your product) http://www.edgeproducts.com/product_registration.php

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
- **AND...**
- **Extended Warranty Plan Opportunity** – within the first 90 days of ownership, Edge offers the option to buy a 1-year warranty extension to all customers who register their product!

About the Racing Product

Congratulations on purchasing this *Edge Racing Product*. You will need to refer to the CS/CTS Product installation Guide for general installation and operation. If you have previously purchased and installed Edge product devices, you will need to remove and install the new *Edge Racing Product* received in this package. If you have any questions, please contact Edge Products. We will be happy to answer your questions about our complete product line.

The *Edge Racing Evolution* is a Programmer that interfaces with your vehicles computer module (ECM). It adds capability and features not available with the factory setup. It uses all the factory data, and then enhances the factory settings to maximize your vehicle's performance.

Important DPF Regeneration Information

NOTE: *Most racing is done with a modified, free-flowing exhaust systems and Regeneration should be disabled. When you remove your DPF, you will need to replace with a replacement pipe manufactured by an aftermarket supplier such as Flow-Pro. <http://www.flopro.com/homepage>*

Only reference this Regeneration section if you have not modified or removed the stock exhaust system and associated hardware and sensors on your vehicle.

If you have removed your stock DPF and disconnected the sensor cables, it may be necessary to install DPF sensors included with the CS/CTS device package. The new sensors are attached on the sensor cable connectors originally installed on the DPF

(These new sensors will need to be removed and the sensor cables reattached to the stock DPF when the DPF is reinstalled.)

Your vehicle is equipped with a diesel particulate filter (DPF). This filter is used in conjunction with a diesel oxidation catalyst. Together they work to reduce the amount of soot emitted from the tailpipe. As soot builds up in the DPF it will begin to restrict the filter. The soot that gathers is automatically purged in one of two ways: Passive Regeneration & Active Regeneration. Both methods occur automatically and require no action on your part. During either of these regeneration methods, you may notice an increase or change in the exhaust noise & increased EGT. If you do not remove the DPF from your vehicle, please refer to the User Guide for regeneration information

Important Note: *It is the customer's responsibility to watch for and ensure complete regeneration cycles if leaving the DPF installed. Using the manual Regeneration feature may become an important feature when racing and the vehicle owner must understand the affects of leaving the DPF on the vehicle. Any vehicle exhaust and emission-system issues are the sole responsibility of the vehicle owner and the OEM. No DPF warranties are expressed or implied.*

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 vehicle. The modifications made to the test vehicle may have included: **1)** addition of the Edge Racing Product **2)** removal of the DPF and **3)** installed high performance turbos. Power gains may also vary somewhat on a different vehicle or in different geographic locations.

Warning: *It is strongly advised that you do not combine, or "stack" chips to gain more horsepower.*

GM 6.6 L 06-09 (LLY/LBZ/LMM)

RACE LEVEL GAINS	LMM HP	LMM TQ	LBZ-LLY HP	LBZ-LLY TQ
STOCK LEVEL 0	0	0	0	0
RACE LEVEL 1	40	85	30	60
RACE LEVEL 2	55	135	60	135
RACE LEVEL 3	80	185	85	185
*RACE LEVEL 4	105	235	100	220
*RACE LEVEL 5	130	285	125	265
*RACE LEVEL 6	155	335	145	285
*RACE LEVEL 7	180	385	165	325

*** Note:** Power levels may vary based on performance modifications.

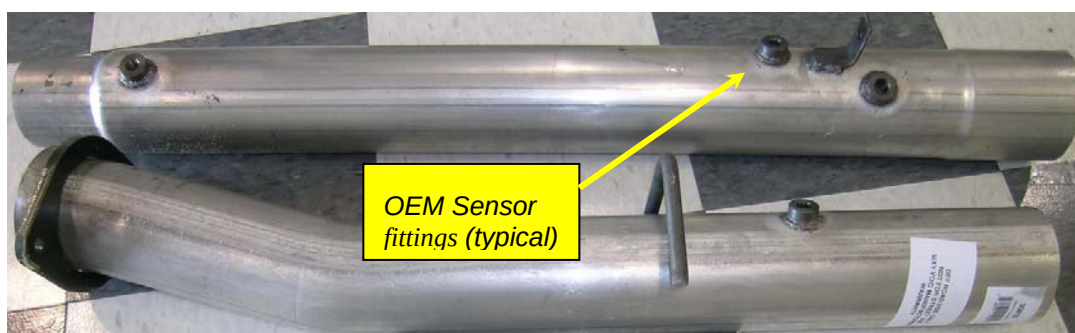
If you have removed your stock DPF and disconnected the sensor cables, it will be necessary to install a replacement pipe. (See picture of an example Flo-Pro replacement or 'Delete' pipe in the following information)

Ford 6.4 L 08-09 (not currently available- Coming Soon)

RACE LEVEL GAINS	6.4L HP	6.4L TQ
STOCK LEVEL 0	0	0
RACE LEVEL 1	35	150
RACE LEVEL 2	50	165
RACE LEVEL 3	90	205
*RACE LEVEL 4	140	260

*** Note:** Power levels may vary based on performance modifications.

If you have removed your stock DPF and disconnected the sensor cables, it will be necessary to install a replacement pipe (see below) with sensor replacement fittings. Reinstall your stock sensors in these fittings. Warning: Failure to install sensors may cause your vehicle to become disabled. Call Edge Technical Support if this occurs.



Ford 6.4L replacement pipe set (example is a 'delete' pipe manufactured by Flow-Pro)

Using the Product

Race Levels

NOTE: Due to the high performance nature of Race Product settings, on-highway usage including towing or hauling loads is not legal. Towing or hauling loads while in Racing levels will overstress the stock engine and transmission.

It is important to understand how the additional power may affect your vehicle.

Race levels one through three might reasonably be used with a stock truck, but work best with additional upgrades you may have done to your vehicle.

The remaining Race levels are designed to be used with an upgraded drive train. If you have modified your injectors, upgraded the transmission, changed a turbo or performed other similar enhancements, these levels will match fueling to the additional performance created by these upgrades. On a stock truck, it is possible to overstress the engine and transmission while driving in higher levels.

EGT and Racing Levels

EGT (exhaust gas temperature) is the single most important indicator of how a diesel engine is performing. For this reason, adding an EGT accessory may become one of the best options you own and provide you peace of mind with real time display on the CS/CTS device.

Unlike a gasoline engine, a diesel engine will continue to make power as more fuel is added. As more fuel is added, more heat will be generated until the motor gets too hot and components may begin to melt. This is a situation you want to avoid. Since temperature fluctuations in exhaust gas are almost instantaneous, exhaust gas temperature is the ideal measurement to determine engine temperature. It is possible to generate excessive EGT if you are involved in competition motorsports. Also, keep in mind that EGT raises significantly with RPM's above 2500.

This is why we always recommend installing an EGT gauge or better still, to install an Edge Product EGT sensor and CS/CTS device, which monitors EGT and will automatically alert you when EGTs get too high.

Keep in mind, the stress on your engine created by the heat is a function of both temperature and time. As you drive your vehicle in the various power settings, keep your eye on the EGTs. Racing and competition Motorsports will require vigilance in monitoring your EGT's and maintaining safe EGT levels and the life of your engine.

CS/CTS Racing Device User Start-up

Once your *CS/CTS Device* is installed successfully and you have turned on your vehicle, you will be prompted through the following screens. **Note:** *The example device and screens shown in following instruction is for the CTS device. The CS device is similar.*

1. Complete the Activation with the Race Unlock Code information at the website links after viewing the Serial Number on the CS/CTS Device screen. (Reference the *Activate your Edge Race Product* section.)
2. Make sure you have recorded the SN and Unlock Code for future reference.
3. For the CS, enter the Unlock Code by using the buttons. Press the Up or Down Arrow and [ENTER] alternately until the last digit of code is entered. Then press [ENTER]
4. For the CTS, enter the Unlock Code by using the alpha-numeric touch pad on the screen. Enter the code in sequence until the last digit is entered.



5. After the last digit of the code is entered, the following screen will appear. Refer to the Owner's Manual and read disclaimer and terms/conditions of use. After reading the disclaimer and terms/conditions of use, press [ENTER] for the CS or touch YES for the CTS to accept.



6. After pressing [ENTER], you will read (2) screens with the following note concerning the use of the *Race CS/CTS*. Press [ENTER] or touch screen to continue.

IMPORTANT: This product is neither intended nor sold for use on pollution-controlled, diesel-powered vehicles operated on roads or highways. As such, it is not certified under the anti-tampering provisions of CA Vehicle Codes 27156 or 38391 and can only be legally used during organized motorsports events.

This product is specifically designed and intended for vehicles engaged in legal off-road racing/pulling activities only.



Press <ENTER> or touch the screen to accept all liability associated with the improper use of this product.

7. After accepting the terms of use concerning this product, the following screen is displayed. Return to the Operation and Installation Instructions in the User's Manual included in this package. Turn key on then press [ENTER] or touch the screen. Additional device operation MENU options and instructions can then be accessed and programmed.



Glossary of Terms

Boost – This is how much additional air pressure is added to the intake/throttle body of the truck by the Turbocharger.

CS/CTS – Color Screen/ Color Touch Screen. Full-color digital display device using the *Evolution* platform.

DPF- Diesel Particulate Filter. Filters Soot generated during the fuel combustion cycle.

ECM - Engine Control Module

EGT – Exhaust Gas Temperature. This is the temperature of the hot burned gases leaving the engine through the exhaust. Generally, EGT should not be permitted beyond 1450°F to prevent turbocharger damage.

PCM – Powertrain Control Module. This is the main onboard computer that controls the operation of the engine and transmission.

Power braking – This is the process of revving the engine while keeping the brakes on. This is done to spool the turbo to a usable level (for racing).

Spooling – This is the process of generating turbo boost pressure by revving the motor.

Thermocouple – This is a device used for measuring the temperature of the exhaust gases.

Turbo/Turbocharger – This device takes advantage of the hot exhaust gases to pump extra air into the engine intake.

Technical Support:

888-360-3343

To expedite your support call, please have your Vehicle Information, Part Number, Serial Number, and Date of Manufacture ready prior to calling Technical Support. The *Edge Products* information is found on the label located on the bottom of the device.