

EVO HT

USER GUIDE



****READ IMPORTANT SAFETY INFORMATION IN THIS MANUAL****

EDGE
PRODUCTS

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S A F E T Y W A R N I N G & C A U T I O N***SAFETY TERMS***

Throughout this User Guide, you will see important messages regarding your safety or the protection of your vehicle. These messages are designated by the words WARNING or CAUTION.



WARNING indicates a condition that may cause serious injury or death to you, your passengers or others nearby. Pay careful attention to these Warning messages, and always comply with them. They could save a life.

CAUTION indicates a condition that could cause damage to your vehicle. It is important to install and operate your EDGE product in conformance with instructions in this Manual. Caution alerts you to particularly important things that will keep your vehicle operating properly.

The Edge Product you have bought is a high-performance product. As such, it does present some risks of which you should be fully aware. Do not use this product until you have carefully read the following safety information and the Owner Agreement

S A F E T Y G U I D E L I N E S***SAFETY GUIDELINES***

1. Do not exceed legal speed limits on public roadways. Use any enhanced speed capabilities of this product only in closed circuit, legally sanctioned racing environments expressly for this purpose. Loss of control from speeding on a public road could seriously injure you, your passengers, or others on the roadway.
2. Do not operate the device while driving. Perform all adjustments or changes while stopped. Changing a setting while under way can interfere with your attention to roadway conditions.
3. “Stacking” performance-enhancing devices or other improper installation can cause power train failure on the road. Other products may have features incompatible with your Edge device. Follow all installation and operating instructions, and do not stack products.
4. Some modifications may affect other parts of your vehicle. For example, if you remove/adjust the speed limiter in your vehicle, be sure your tires and other components are rated for the increased speeds they will have to withstand. Not doing so can lead to loss of vehicle control. Modify the speed limiter only for use in closed circuit, legally sanctioned racing environments, not for use on public roadways.

P R O D U C T R E G I S T R A T I O N

PLEASE take the time to register your product on line at:
www.edgeproducts.com.

Follow the instructions at link:

http://www.edgeproducts.com/product_registration.php

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.



WARNING

Misapplication or misuse of this product could lead to a serious or fatal accident. Comply with all safety information in this manual, and your vehicle owner's manual. Follow safety, installation and operating instructions in this User Manual to assure proper use.

L I M I T E D 1 Y E A R W A R R A N T Y***LIMITED 1 YEAR 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 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.

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

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

WARRANTY INFORMATION**IMPORTANT INFORMATION ABOUT YOUR VEHICLE'S WARRANTY**

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.

CAUTION: Operate your vehicle within manufactures recommended load and weight limits as shown in the Manufactures Operator Manual. Please keep in mind that towing in anything higher than the towing level (typically Level 2) and hard driving in race or extreme performance levels using Edge products is not recommended and can cause engine damage or failure. In particular, with the use of any diesel performance product, Edge strongly recommends the installation of an exhaust gas temperature (EGT) gauge in order to ensure the engine operates within a safe temperature range. Failure to ensure safe operating engine temperature may result in engine damage or failure.

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 scan tool functions. Edge makes every effort to produce product that can be easily removed.

NOTE: Even if you disconnect your unit, in some situations your dealer can detect the use of any programmer—even if the unit has been removed.

SERVICE CENTER AND COMPATIBILITY CAUTIONS

CAUTION: *Return your vehicle to stock before taking it to a service center.* All Edge programmers are built to operate with OEM calibrations. If you take your vehicle to a service center they may, by your request or otherwise, update your vehicle's calibrations. If this happens and your vehicle has not been returned to stock your device will no longer be capable of programming your vehicle. 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.

CAUTION: *If you have used another tuner/programmer on your vehicle, you will need to program the vehicle back to stock and remove the device before using the Edge Product. Failure to return to stock may result in PCM failure or engine damage. Programming your vehicle may expose existing defects in the 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.*

CAUTION: *The Evo HT programmer was developed on a stock vehicle with no aftermarket bolt-on parts; as such, the performance changes implemented by the Evo HT may not be compatible with certain aftermarket power add-ons. See below for a brief explanation of how the Evo HT tuning may be affected by certain aftermarket devices.*

COLD AIR INTAKE (CAI) KITS

Most modern-day vehicles use a Mass Air Flow (MAF) sensor. The MAF sensor is generally located in the intake tube close to the factory air box. MAF sensors play a key role in determining the amount of fuel an engine needs at any given throttle position. MAF sensors are precisely calibrated for the factory intake systems; changes in intake tube diameter, sensor placement, or filter flow characteristics can adversely affect the reading from the MAF sensor.

MECHANICAL MODIFICATIONS

Mechanical modifications such as headers, upgraded camshafts, displacement changes, cylinder head improvements etc., will change the airflow characteristics of an internal combustion engine. The Evo HT is not tailored to take advantage of these modifications, for the best results we recommend vehicle specific custom tuning.

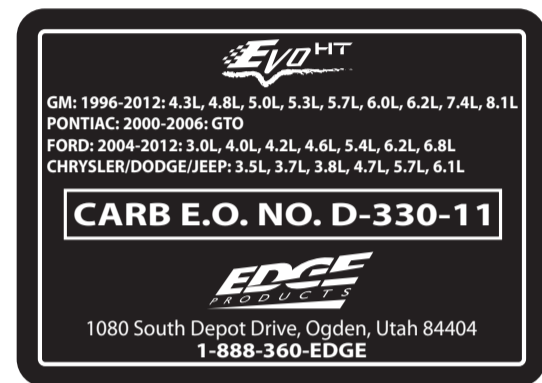
FORCED INDUCTION (TURBOCHARGERS OR SUPERCHARGERS)

Turbochargers and Superchargers drastically change the dynamics/performance of the engine, and its fueling/timing needs. Additional hard parts and custom tuning are required to run a forced induction system on an engine that was originally designed as a Naturally Aspirated (NA) engine. The Evo HT does not support the addition of an aftermarket forced induction kit.

C A R B / E P A C O M P L I A N C E

This product meets the emissions compliance requirements of the California Air Resources Board and Federal Environmental Protection Agency and is legal for sale and use on pollution-controlled vehicles operated on public streets and highways. It must be installed and operated according to the instructions provided in this user's manual.

Included with this product is a sticker like the one pictured for you to keep in your vehicle. You can either apply it somewhere on the vehicle (e.g., the inside end of driver's door) or simply store it in your glove box. The purpose of these stickers is to inform anyone who may have questions regarding the use of your Edge product and how it affects emissions. For example, it would be something to show an emissions technician if questioned when taking your vehicle in for an emissions check to let him/her know the product is CARB emissions compliant.



NOTE: *The stickers included in some products apply to products that have received CARB exemption for emissions compliance.*

BEFORE YOU BEGIN

LIST OF COMPONENTS

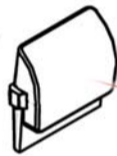
1. HT DEVICE



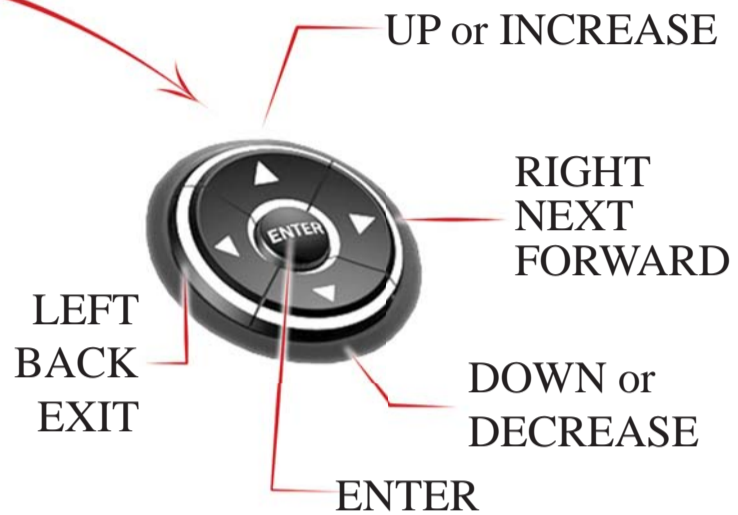
2. USB CABLE



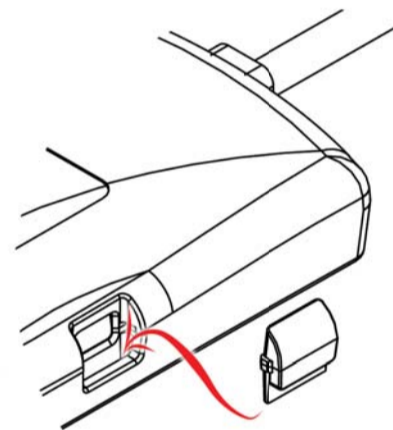
3. USB DUST COVER



BUTTON FUNCTIONALITY



DUST COVER INSERTION



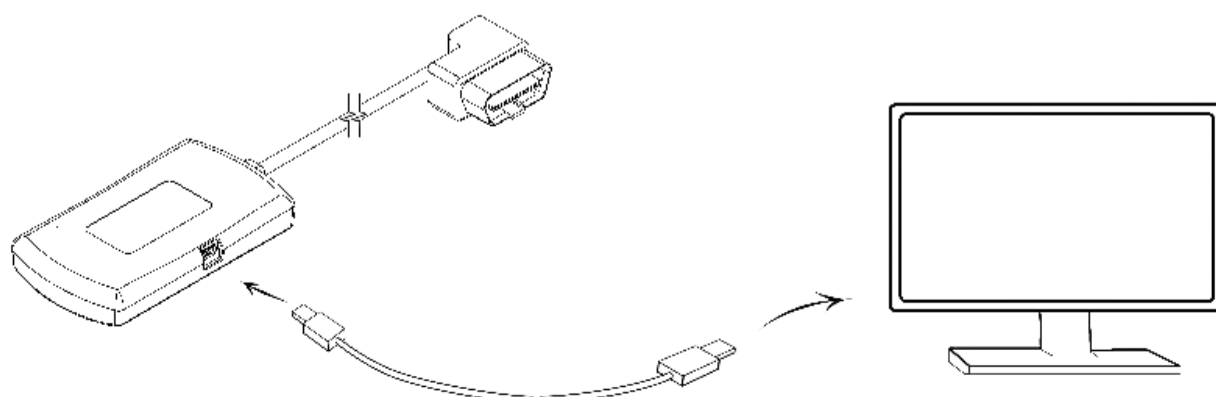
GETTING STARTED

UPDATE PROGRAMMER

1. Download Evo HT update software at www.edgeproducts.com/product_updates.php
2. Run the setup program.
3. Once installed, run the software.
4. If necessary, create a new registra-

tion account or login into your existing account.

5. Connect your HT to the computer using the supplied USB cable. (DO NOT plug in the OBDII cable at this time.)
6. Follow on screen instructions and update your programmer.



PROGRAMMING INSTRUCTIONS

PLUG IN THE HT

1. Plug the HT into your vehicle's OBDII port. Your programmer will automatically power on when it is plugged in.

**CAUTION:**

Do not remove or bump the OBD-II connector during any programming sequence. If you do, the vehicle may not start.

TUNING THE VEHICLE

(NOTE: Not all features are available on every make, model, and engine.)

1. Select “**Tune Vehicle**” then press “**Enter**”.
2. Select “**Quick Tune**” or “**Advanced Tune**”. Press “**Enter**”

Quick Tune = Changes the power level of your vehicle and uses the most popular features and settings.

Advanced Tune = Changes the power level of your vehicle and allows you to select settings for advanced features and settings.

3. Switch ignition to the running position. (**CAUTION: Do not start engine**)

4. Once the programmer reads: “**The Stock File is now saved**”. Press “**Enter**”.

5. Select Tune Level.

SELECT TUNE LEVEL

PERFORMANCE

TOW

87 OCTANE

STOCK W/ OPTIONS

STOCK

Follow on screen prompts for power level requirements.

Once you have completed all the on-screen prompts and have made your selections, the programmer will update your vehicle.

If you have trouble programming your vehicle...

- Turn off radios, amplifiers, CD/DVD players, etc.
- Unplug all accessories: cell phone chargers, laptops, GPS, etc.
- Turn off auto-headlights, auto-wipers, A/C – heater fan/controls
- Do not open vehicle doors, adjust power seats or use power windows.
- Disable aftermarket Remote Start Systems.

ADVANCED TUNING

Most options are optimized using the Quick Tune option. However, you may use the Advanced Tune option to independently set parameters. (**NOTE: NOT ALL features are available on**

every make, model, and engine.)

SPEED LIMITER

Adjusts top speed limiter by increments or fixed values.

- Vehicle must have appropriate speed rated tires.
- Do not exceed proper operating conditions.
- Obey all traffic laws.
- For use only on a controlled track. Never exceed legal limits on public roadways.

REV LIMITER

Adjusts engine rev limiter by increments or fixed values.

- Vehicle must have appropriate speed rated tires.
- Do not exceed proper operating conditions.

TIRE SIZE

This option corrects speedometer, odometer and automatic transmission shift points (where supported) for wheel and tire changes. *(NOTE: Measure from the ground to the top of your tire. Place a ruler or flat level item on the top of your tire to measure accurately. Measure in 1/4 inch increments rounding up.)*

AXLE (GEAR) RATIO

Corrects the speedometer, odometer and automatic transmission shift points (where supported) for rear end gear changes.

- Confirm aftermarket parts are installed before adjusting this option.

AUTO TRANS SHIFT POINTS

Adjust transmission points for optimized drivability and operation. Varies by vehicle.

AUTO TRANS SHIFT PRESS.

Adjust transmission pressure in PSI to allow for a more aggressive shift. Varies by vehicle.

COOLING FAN

Adjusts fan turn ON temperature. Varies by vehicle.

MANUAL TRANS SKIP SHIFT

Enables or disables Computer Aided Gear Selection (CAGS) for manual transmissions.

WOT RESTRICTION

Enables or disables factory Wide Open Throttle (WOT*) restriction.

* Available only on certain vehicles.

RETURNING TO STOCK

The first time you program your vehicle, your factory stock tune is saved into the programmer. Once your vehicle has been programmed, you may return it to the factory stock settings at any point.

1. Select **“Tune Vehicle”** then press **“Enter”**.
2. Select **“Quick Tune”** then press **“Enter”**.
3. Select **“Factory Stock”** then press **“Enter”**
4. Follow on-screen prompts.
5. Switch Ignition OFF/RUN (On) as requested (Do not start engine).

(CAUTION: Before taking your vehicle into a service center, return your vehicle to stock. The service center might reprogram your vehicle with an updated program without your knowledge. If you did not use the HT to return your vehicle to factory stock and your vehicle is reprogrammed by the service center, the programmer will no longer be able to program your vehicle.)

ADDITIONAL FEATURES

DIAGNOSTICS

Use the Engine Diagnostic Tool to check trouble codes. A Diagnostic Trouble Code (DTC) arises when a vehicle's computer detects a sensor failure or a parameter outside a specific range. Most vehicles will illuminate the in-dash check engine light. An HT programmer will read, identify and let you clear DTCs.

READ DTC

1. Plug your programmer into the OBD-II port.
2. Use the diagnostic tool to read the DTC from the vehicle's computer. If a code is present, it will be displayed with a full text description.

CLEAR DTC

If your vehicle displays a DTC, an Edge Products programmer can clear the code, turning off your check engine light.

(NOTE: If a DTC persists, this could indicate a vehicle malfunction or problem. Be sure to return the vehicle to stock prior to taking it in for service to address the issue.)

DATA LOGGING

With the Data Logging options, you can compare the stock vs. programmed performance of your vehicle.

LOG BY SPEED OPTION

This option allows you to test and log the time it takes to reach a pre-defined speed. The HT stores your Best Times as well as your Last Run information.

LOG BY DISTANCE

This option allows you to test and log the time it takes to reach a pre-defined distance. The HT stores your best Times as well as your Last Run information.

ADVANCED

Use these options to monitor and record individual live sensor values or computer data. Specific features for your vehicle will automatically be available once the HT has identified your vehicle. You are allowed to monitor (4) different parameters at one time.

1. Choose (4) of the provided parameters that you would like to monitor. These parameters will be available under the “**Engine Misc**”, “**Time and Distance**”, and vehicle specific options. These options may be available, but are not limited to:

- Air and fuel data
- Mass air flow rates and temp.
- Ignition timing
- Injector fuel rates
- Direct sensor information
- Monitor fluid temperatures
- View live powertrain data

2. Return to the **Data Logging** menu by pressing “**Left**” and choose “**Start Display**”.

A screen divided into 4 portions will appear. These are the parameters that you had specified in step 1.

INFORMATION AND SETTINGS

TUNER INFO

Displays serial number of the programmer, firmware version and vehicle database versions (car database, gas truck database, diesel database, etc.)

Firmware and databases are updated through the Evo HT update software.

VEHICLE INFORMATION

Displays VIN of the programmed vehicle, programmer status and the Edge Products file number associated with the programmed vehicle.

VEHICLE OPTIONS

Allows you to manage different vehicles parameters such as Tire size.

DISPLAY SETTINGS

Adjusts display settings for use in direct sunlight, nighttime or low lighting.

SET CONTRAST

Adjusts the darkness of text and graphics.

SET BACKLIGHT

Enables or disables your screen backlight.

SCROLL SPEED

Adjusts how fast menus can be navigated.

SET VEHICLE TAG

Allows you to customize and save information on the Evo HT for multiple vehicles. This can only be enabled by purchasing the Multi-Vin option online.

THE EASY UPDATE STORE

A 'Standard Update' gives you the latest operating software and tunes for your vehicle. Standard updates download automatically when using the Evo HT update software. Once this is complete you will have the option to choose additional downloads and features such as Data Acquisition and advanced tunes (CAI, exhaust, etc). Read each package to know what is right for you.

STORAGE AND MAINTENANCE

CAUTION: *It is NOT recommended to store your programmer in your vehicle in extreme heat, direct sunlight or extreme cold (temperatures near or below freezing). These conditions can cause malfunction or damage to the programmer.*

T R O U B L E S H O O T I N G

Issue: My Evo HT does not power up when plugged into the OBDII port?

Solutions:

1. Your vehicle's OBDII port is powered through a fuse – the fuse may be blown. (In most vehicles, this is the same fuse shared by the cigarette lighter)
2. Try the Evo HT on another vehicle to make sure it powers up. If it does, then the wiring on the vehicle you are trying to program may be the issue (See your dealer for service).

Issue: My Evo HT Says: “Non-Stock File Detected...”

Solution:

1. Your vehicle may have been programmed by another device. Use that device to set your vehicle back to stock before using the Evo HT.

Issue: My programmer displays status G-6F?

Solution:

1. The error code is a ‘General Database Error’. It means your programmer does not have a complete database. Refer to the “Getting Started” section of this manual and update your programmer.

Issue: When reading the vehicle's trouble codes (DTCs), I received a P1000 error code?

Solution:

P1000 is a DTC that sometimes appears after a vehicle is programmed or the battery cables are unplugged from the battery. It will automatically clear after several drive cycles. It cannot be removed using the ‘DTC Clear’ function.

Issue: My vehicle has several aftermarket part modifications and after I program with Edge Products, the vehicle does not run well?

Solution:

An Evo HT programmer is designed for stock vehicles (factory stock calibrations and stock engine & transmissions). In some cases, upgrades like air filters, shorty headers, cold air intakes, or cat-back exhausts may not be supported.

Issue: My programmer did not complete programming and went into recovery mode?

Solution:

Evo HT programmers are designed with ‘Recovery Mode’ which means if, for any reason, the programming process does not finish, the programmer will automatically program your vehicle back to the factory stock

settings. It is necessary to follow the screen prompts, possibly requiring several ‘Ignition On’ and ‘Ignition Off’ sequences.

When recovery is complete your vehicle is at factory stock. You are now able to start your vehicle normally. You may now attempt to program your vehicle again. In the event that recovery is unsuccessful or fails to complete the programming cycle, a status message will display on the programmer. Please make note of the message displayed and contact Edge Products Customer Care at 888.360.3343.

Issue: I left Edge Products tuning in my vehicle and went to my dealer for service, now my Edge Products programmer will not work?

Solution:

The dealership likely updated your vehicle’s calibrations, and saved over the Edge Products tuning. The programmer does not recognize the new files in your vehicle. Contact Edge Products customer care at 888.360.3343 to correct the situation.

Issue: My programmer works fine on my vehicle, but after I returned my vehicle to stock and tried it on another vehicle I own, the screen showed E-6D “Needs Update – why?”

Solution:

The Evo HT programmer is programmed at our factory with the latest databases meant to provide broad

vehicle coverage. Your first vehicle’s calibrations (tuning files) were supported by our database, but your second vehicle’s calibrations are not. Update your HT device using your update software. If an update is not available, you will receive an e-mail as soon as one is.

Issue: My programmer shows a ‘vehicle calibration not on file’ status.

Solution:

The EVO HT programmer is loaded with the latest databases meant to provide extremely broad vehicle coverage. ‘Vehicle calibration not on file’ status occurs when a programmer does not have the necessary calibration files to program a vehicle. Update your programmer with Edge Products Easy Update software. If your calibration is available it will be downloaded to your programmer for immediate use. If your calibration is not available, your calibration will be uploaded to Edge Products’ R&D for tuning. You will receive an e-mail as soon as your calibration is available. Calibrations are usually available in 5 business days.

F A Q S

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Q: Can my EVO HT programmer program more than one vehicle at a time?

A: No, only after you return your first vehicle back to factory stock.

Q: Does Edge Products support custom tuning?

A: No, custom tuning will not be offered at this time.

Q: What aftermarket accessories will my EVO HT programmer work with?

A: EVO HT programmers are engineered to work with the following parts right out of the box: throttle body spacers, shorty headers, cat-back exhaust system, and cold air intake kits. Compatibility may vary by make and model.

Q: How do I change my vehicle's calibration?

A: Refer to the OPERATING INSTRUCTIONS section of this guide for detailed instructions.

Q: Why do you say you support my truck, but it doesn't seem to work on my cab and chassis?

A: Edge Products supports 'complete' truck lines such as Ford F-150, GM C/K 1500 and Dodge Ram 1500. We do not support cutaway, cab and chassis for pickups built from cab and chassis frames. These vehicles are considered incomplete.

Q: What if I have a 2007.5 or later Turbo Diesel with a Diesel Particulate Filter (DPF)?

A: Your EVO HT programmer is 100% compatible with DPF-equipped

vehicles. Your diesel vehicle is required to be equipped with a DPF to promote cleaner emissions. The filter reduces the amount of harmful exhaust emitted from the tailpipe. As soot builds up in the DPF, it will begin restricting the filter. The soot that gathers is automatically purged in one of two ways: passive regeneration or active regeneration. Both occur automatically and require no action on the driver's part.

(NOTE: Edge Products does not interfere with nor support alterations or removal of the DPF or emissions control equipment.)

Q: How do I update my programmer?

A: Your EVO HT programmer is designed to be easy to update. Refer to the "Getting Started" section of this manual and update your programmer.

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For additional questions not found in the user guide call:

Edge Products Technical Support: (888) 360-EDGE (3343) 8:00 am - 5:00 pm MST

**To expedite your support call, please have your Vehicle Information,
Part Number, and Serial Number ready prior to calling Technical Support.**

**The Edge Products information is found on the label located
on the bottom of the device.**