

# JUICE

**2001-2005 GM Duramax 6.6L LB7 & LLY**  
*Edge Juice and Attitude*  
*Installation Instructions and Manual*

OLD P/N's: EJC1001WAM / EJC1000AWAM  
NEW P/N's: 20100 / 20101



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Manual Version 4

## **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 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.

## AFTERMARKET PRODUCTS AND YOUR VEHICLE'S WARRANTY

Many of our customers ask, "Will your product void my vehicle manufacturer's warranty?" While the answer is straightforward from a legal standpoint, we also want to educate our customers (and 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 car and you take it in for warranty repair, the dealer must honor your warranty unless they can prove that whatever modifications you have added to your car actually caused the problem. Please keep in mind that towing in anything higher than level two and hard driving in levels four and five are not recommended.

While as a consumer, you have strong legal protection with regards to your vehicle's warranty, there is also a practical reality that different automotive manufacturers and dealers have greatly varying views on aftermarket products, in particular those that produce horsepower, such as performance enhancement chips, modified intake manifolds, or aftermarket exhaust systems. There are dealers and manufacturers out there that will use the presence of a horsepower upgrade to void your vehicle's warranty. They will do this regardless of whose product you are using. Any aftermarket company that does not acknowledge this is misleading you.

The bottom line is that while the law protects the consumer and provides for enforcement of the warranty, it is very difficult for most people to hire an attorney and fight a voided warranty. Edge recommends that you **always disconnect and remove your module and monitor when you take your vehicle to a dealer for warranty work** in order not to interfere with Diagnostic equipment.

**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).**

**IMPORTANT NOTE:**

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 (This only applies to discontinued products).

## About the Chevy/GM Juice

Thank you for purchasing the Power Edge *Juice* Module for the Chevy/GM Duramax Diesel®. The *Juice* 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 Juice 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 Juice module as engine reaches operating temperature
- Four selectable power level settings for Normal and Tow/Haul transmission modes (5 on-the-fly selectable power settings with the *Attitude*)
- Transmission slip monitoring - If any transmission slip is detected power is decreased to eliminate transmission slippage
- Smart power control during torque converter lockup to allow a smooth, easy torque converter clutch lock-up

The Juice 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 Juice also regulates power delivery and timing based on engine temperature. This means that while the engine temperature is below 160° F no additional fueling or timing is delivered. At 160° F the module begins delivering fuel at 50% of the calculated additional fuel, and the percentage increases as the engine temperature increases, until at full engine temperature (174° F) the Juice delivers 100% of the calculated additional fuel. At full engine temperature the Juice also starts modifying timing.

# Chevy/GM Juice Getting Connected

## Supplied Items:

1. Power Edge Juice Module
2. Three Wire Ties
3. Two Velcro Strips

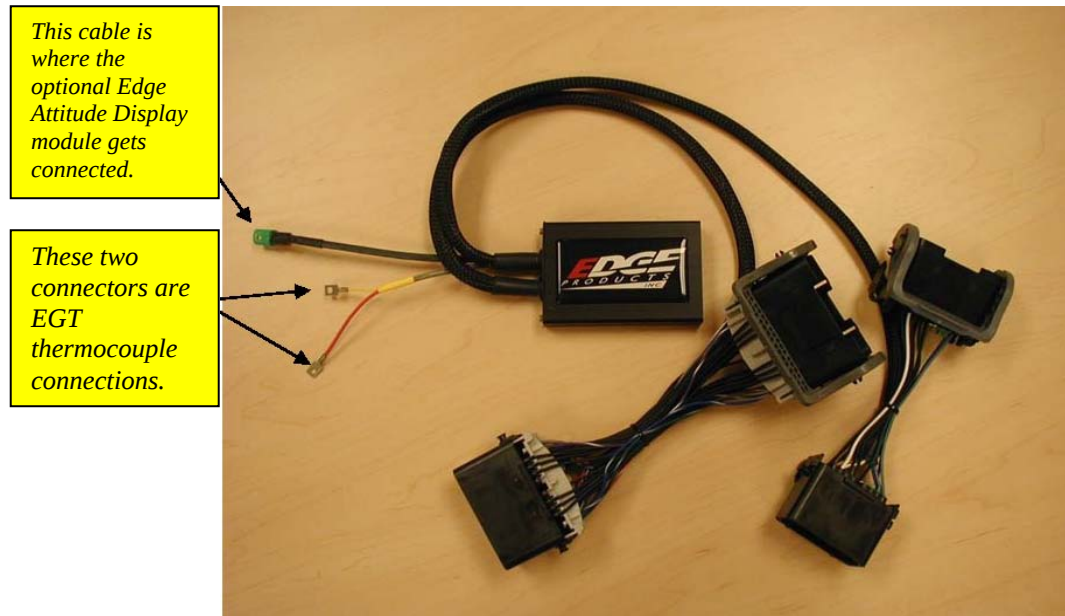
## Required Tools:

None

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

## The Power Edge Juice Module

This picture shows the Power Edge Juice Module with the harness cable and Edge Attitude Display wiring (Attitude instructions on pg. 13)



**Harness Connector** – Your Juice module may be equipped with a harness that can be disconnected at the Juice module itself (See figure 1A). It is important to make sure that your juice 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.”



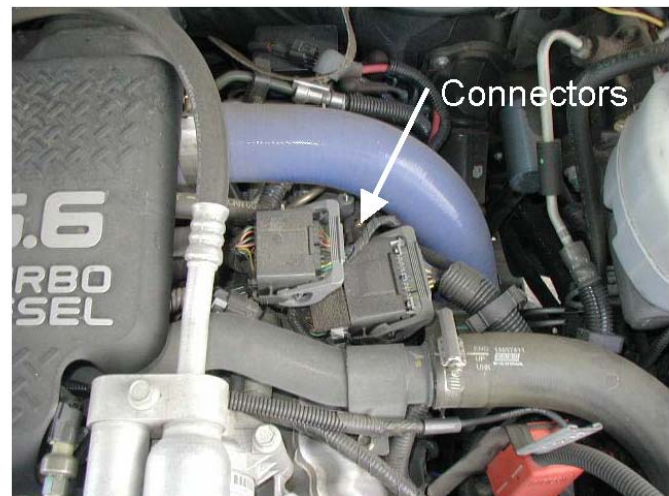
FIGURE 1A

## Mounting the Juice Module

1. The Power Edge Juice 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 Juice connectors and lock in place with the gray levers, and then gently connect the stock connectors to the other end of the Juice connectors.



Notice: Use caution when inserting connector bodies. If the connector does not slide smoothly, remove the connector, inspect the pins, and retry installation.

## **Final Inspection**

4. Recheck all connections for a properly secure installation. Using the supplied wire ties, secure the wiring harness to prevent possible damage.

5. 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 juice 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 Juice

### Adjusting Power Levels

The Juice has four power levels. The *Attitude* module allows five levels. The Juice module was designed to allow the user to select a power level for Normal operating mode, and either the same or a different power level for Tow/Haul mode.

**NOTE: If you have the Attitude installed, the following procedure does NOT apply. Power levels are changed using the Attitude.**

1. Set the Parking Brake
2. Turn key on without starting the engine (engine must not be running).
3. Select the desired transmission mode to set the power level for (Normal or Tow/Haul).
4. Place gear selector in the gear corresponding to desired power level (D=4, 3=3, 2=2, 1=1, R=stock).
5. Press accelerator to the floor two times, completely releasing the pedal each time.
6. Return gear selector to Park and start the engine.
7. Press the Tow/Haul button twice. This causes the Juice module to “remember” the level setting for the mode.

### Power Level Confirmation

To confirm the power level that is selected:

1. Place gear selector in Park with your foot off of the accelerator while engine is idling
2. Set the Parking Brake
3. Select Normal or Tow/Haul mode, depending upon the transmission mode power setting you wish to confirm
4. Place gear selector to reverse, neutral, reverse, then back to park. P-R-N-R-P
5. The engine will rev to coincide with the power level selected, revving 4 times for level 4, 3 times for level 3, and so on

It is recommended that you use the Tow/Haul transmission mode while towing. This provides torque converter lockup in gears 2-5 reducing transmission heat, and also raising 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 Juice 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 Juice. You can also opt to limit the EGT with the *Attitude* monitor to maintain lower EGT levels.

**It is recommended while towing you use power levels 1 or 2 due to EGT and transmission stress**

## 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 Juice module. Power gains may vary somewhat on a different vehicle or in different geographic settings.

| Horsepower  | Torque |
|-------------|--------|
| Level 1: 40 | 150    |
| Level 2: 60 | 180    |
| Level 3: 75 | 220    |
| Level 4: 90 | 250    |

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

## Making Sense of It All

This section is designed to help you

To 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, especially if this is your first time driving a diesel truck with a performance module, is that this is a whole different animal. You will experience more power, quicker take-offs, better passing and acceleration, and even better fuel economy. Power level one is specifically designed to maximize fuel economy improvements. *(if you can put off the little guy on your shoulder telling you to ‘**step on it hard**’).*

If you are towing, the beauty of the extra power the Edge module delivers is that not only will 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 one or level two for towing applications. Only use level two if you are towing a light load.

The remaining power levels are designed to match fueling with any additional upgrades you may have done to your vehicle. Level 3 is as far as you should go on a stock truck and 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 or the Attitude monitor, level 3 will not stress the stock engine or transmission as long as you are not towing.

Levels four and five are race levels and are designed to be used with upgraded drive trains. If you have modified your injectors, upgraded the transmission, changed turbos or performed other similar enhancements, levels four and five 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 levels four and five.

## **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 and we built the Attitude monitor, which monitors EGT and will automatically defuel your truck when EGTs get too high.

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 Juice 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 Juice 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. Please keep in mind however, that if you run in level 4 or 5, the additional power is so great that it is possible to overstress a stock Allison transmission if you drive too hard.

## **Technical Support**

Edge takes a great deal of pride in the quality of our customer service. If you have any questions or concerns about your Juice module, please feel free to call us at 888-360-3343.

## **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 Juice module), the transmission has to ‘re-learn’ how to shift. After first installing the Juice 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.

# ATTITUDE

**2001-2005 GM Duramax 6.6L LB7/LLY**  
**Edge Attitude Monitor**  
**Installation Instructions & Manual**  
P/N: EAC1000



**EDGE**  
PRODUCTS  
INC.  
DIESEL PERFORMANCE

## About the Attitude

The *Attitude* allows you to monitor the performance of your vehicle's vital engine components and output values. The following parameters can be displayed on the main *Attitude* screen:

- Boost
- EGT (exhaust gas temperature)
- Barometric PSI
- Speed MPH
- Engine Coolant Temp
- <sup>1</sup>Gear (torque converter lock)
- Intake Air Temp
- Load %
- <sup>2</sup>Slip %
- Transmission Temp
- Throttle %
- Turbo Boost PSI
- RPM
- Backdown % (Percent back down due to high EGT)

One of the most powerful features of the Attitude is the option to monitor the EGT of your vehicle and automatically lower the power output to maintain an EGT below a maximum desired level. The Attitude will also alert you both visually and audibly at pre-set engine parameter thresholds and also record the maximum values reached in each of the parameters.

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<sup>1</sup> A lock symbol will appear next to the current gear on the Attitude display if the torque converter is locked.

<sup>2</sup> Slip is measured across the Torque Converter and is only available when the Torque Converter is locked.

## Juice/Attitude 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 Juice module. Power gains may vary somewhat on a different vehicle or in different geographic settings.

| <i>Horsepower</i> | <i>Torque</i>                                                |
|-------------------|--------------------------------------------------------------|
| Level 1: 40 HP    | 150                                                          |
| Level 2: 60 HP    | 180                                                          |
| Level 3: 75 HP    | 200                                                          |
| Level 4: 90 HP    | 250                                                          |
| Level 5: 125 HP   | 325                                                          |
| Level 6: 150 HP   | 350 (Contact Edge Products Tech Support to get unlock code.) |

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

**IMPORTANT NOTE: If you have Part number EAC1000 you will not have the option for a 6<sup>th</sup> power level.**

## Chevy/GM Attitude Getting Connected

The *Attitude* monitor connects under the hood to the Edge *Juice* module. Follow these steps to install the *Attitude*:

1. Place your *Attitude* monitor on the dash of your vehicle approximately where you want it installed and, with the driver's door open, feed the cable through the open door, and into the engine compartment via the slot near the hood hinge.
2. Determine where you want to attach the *Attitude* mounting bracket and insert it into your dashboard. The bracket fits well in the seam of the dash board by separating the seam slightly and sliding in the bottom portion of the bracket until it snaps into place (*see figure 1*). The following pictures demonstrate how to best mount the *Attitude* with the new bracket.



Figure 1

*The bracket fits well in the seam of the dash board by separating the seam slightly and sliding in the bottom portion of the bracket until it snaps into place.*

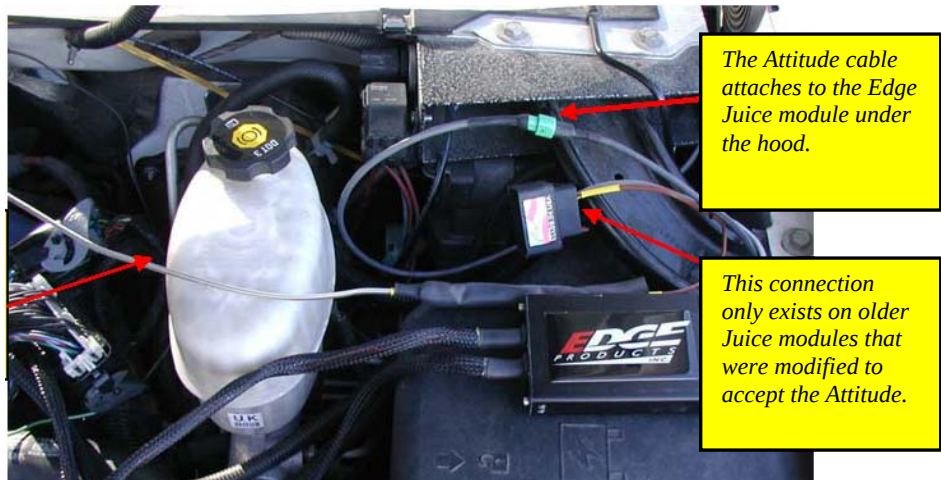


Figure 2

*After the bracket is mounted, use the supplied two sided tape to secure the Attitude to the bracket*

3. Connect the *Attitude* to your Edge *Juice* module by snapping together the cables with the green connections (*see figure 3*). Secure any excess cable to prevent entanglement with moving engine parts.

This is the EGT cable that gets tapped into the exhaust manifold.



The Attitude cable attaches to the Edge Juice module under the hood.

This connection only exists on older Juice modules that were modified to accept the Attitude.

Figure 3

4. It is necessary to tap a small hole into your exhaust manifold to insert the EGT sensor. **The EGT probe must be mounted before the turbo to operate properly.** Drill the hole using a 5/16 or a 21/64" drill bit, then tap it with an 1/8" NPT tap (*see tip on figure 5*). Once the hole is drilled and tapped, run the motor at idle for 10 to 15 seconds to clear the few remaining shavings from the manifold. Once the engine has been run, screw in the brass fitting and insert the EGT sensor by sliding it into the hole (*see figure 4*) and tightening the back end brass fittings.

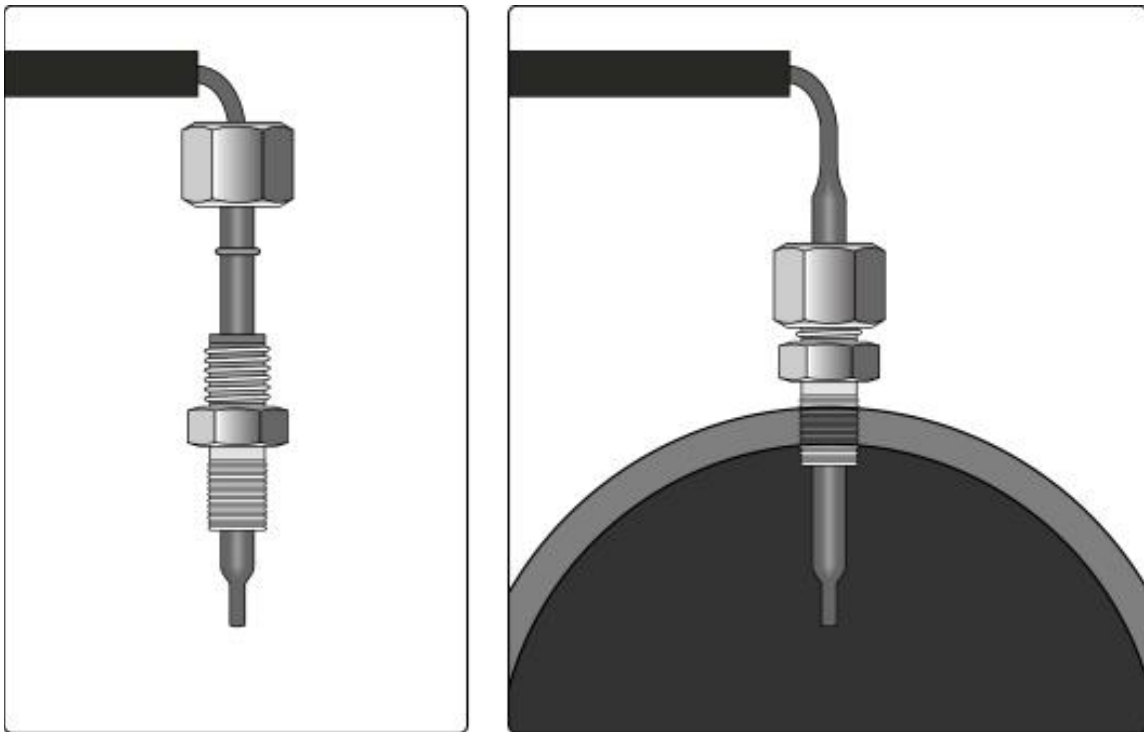


Figure 4



*The EGT thermocouple installed into the drilled and tapped exhaust manifold*

Figure 5



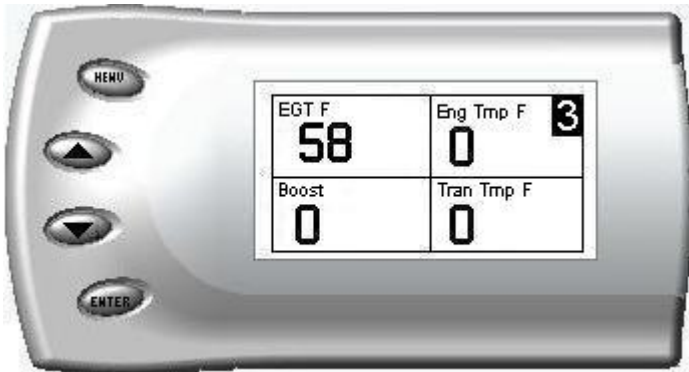
*Tip: Pulling back the wheel splash guard provides easy access to the exhaust manifold for tapping the EGT cable.*

Figure 6

Once your Attitude monitor is installed successfully and you have turned on your vehicle, you will see a screen similar to the following:



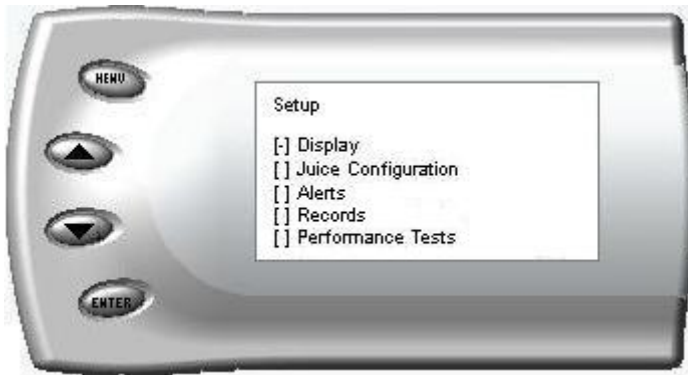
Press the <ENT> key to accept the terms and conditions in your Owner's Manual. A screen similar to the following appears indicating that your Juice and Attitude were installed correctly.



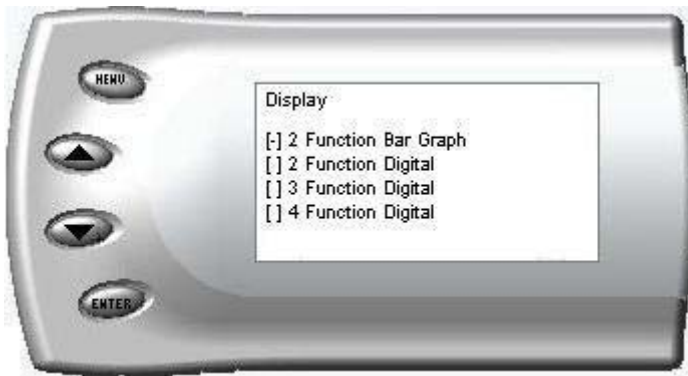
## Changing the Display View

The Attitude allows you to view multiple engine parameters on the same screen. To select a desired view, perform the following steps:

1. Press the [Menu] button until the *Setup* screen appears:



2. Select the Display option and press the [Enter] button. The following screen appears:

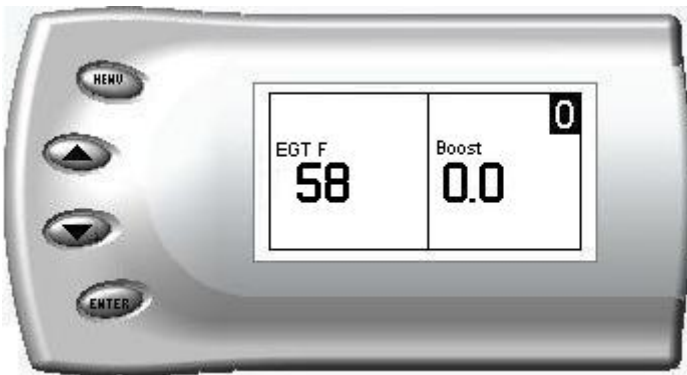


3. Select the desired viewing option by using the up and down arrows and pressing the [Enter] key. Below are examples of the display options:

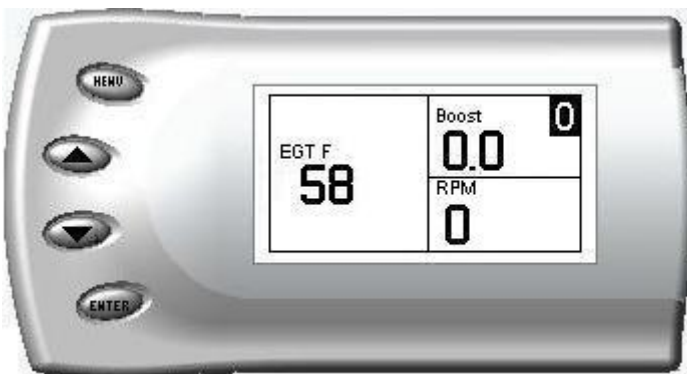
## Two Function Bar Graph Display Sample



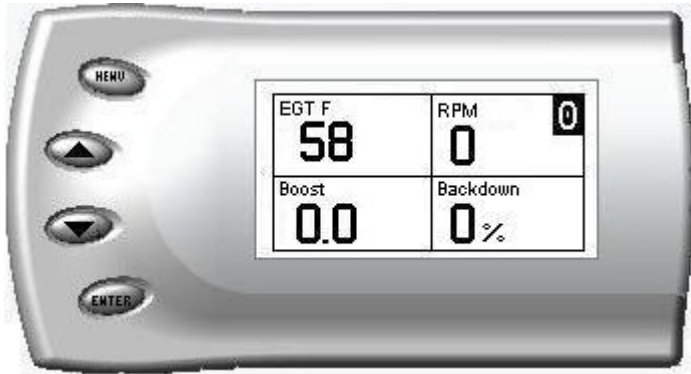
## Two Function Digital Display Sample



## Three Function Digital Display Sample



## Four Function Digital Display Sample



## Changing Variables on the Screen

The following is a list of main options that can be performed on the Attitude, the majority of which have sub-options for advanced settings:

- Boost
- EGT (exhaust gas temperature)
- Barometric PSI\*
- Speed MPH
- Engine Coolant Temp\*
- Gear (TCC Lock)
- Intake Air Temp\*
- Load %
- Slip %
- Transmission Temp\*
- Throttle %
- Turbo Boost PSI
- RPM
- Percent back down due to high EGT

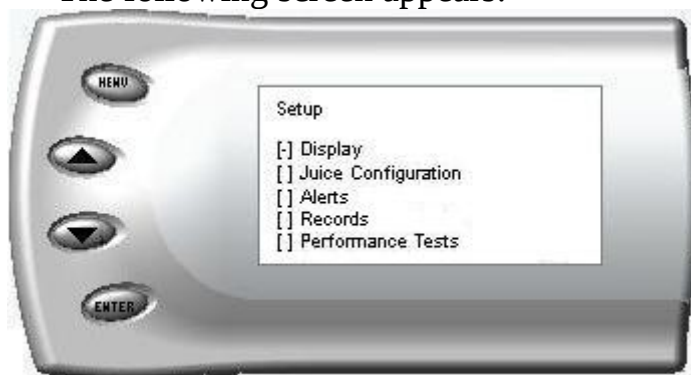
*\*'01 Duramax does not display Barometric PSI, Intake Air Temp, Engine Coolant Temp, and Transmission Temp.*

*\*'02 Duramax does not display Transmission Temp.*

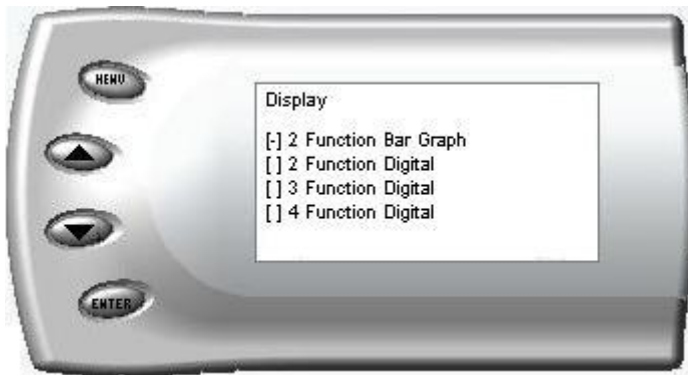
## Display

To change the variables on the screen, perform the following steps:

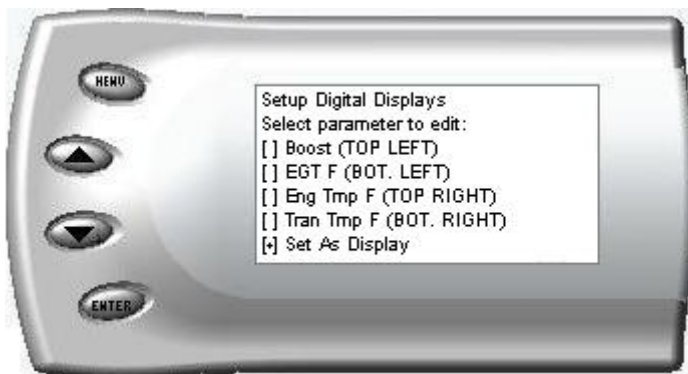
1. When viewing the main screen of variables, press the [Menu] button.  
The following screen appears:



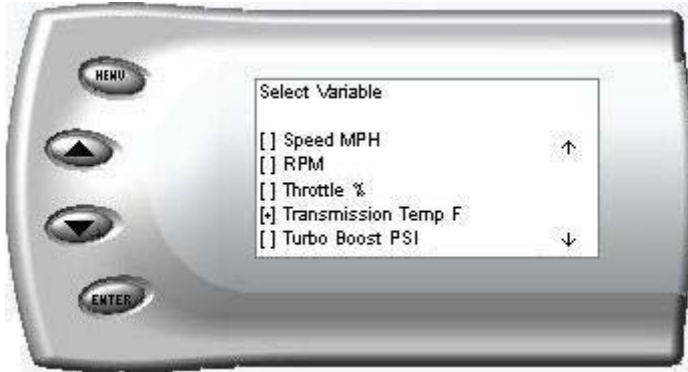
2. Select the Display option and press [Enter]. The following screen appears:



3. Select the desired display style you would like and press [Enter]. Depending on which option you choose, a screen similar to the following appears:



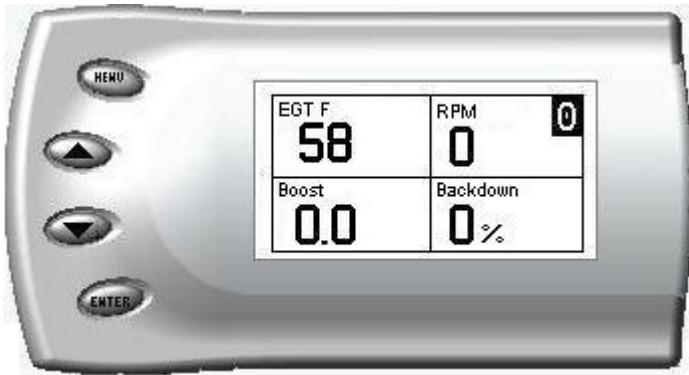
4. This screen lists the current variables you have selected to view and their respective positions on the screen (i.e., TOP LEFT, etc.). Select the variable you would like to change and press [Enter]. A screen listing the possible replacement variables similar to the following appears:



5. Select the variable you would like to view and press [Enter]. The Setup Digital Displays screen appears again listing the variable options you have chosen to view. If you have no more changes, select the *Set As Display* option and press [Enter]. The main screen appears with your desired variable in view.

## Adjusting the Backlight

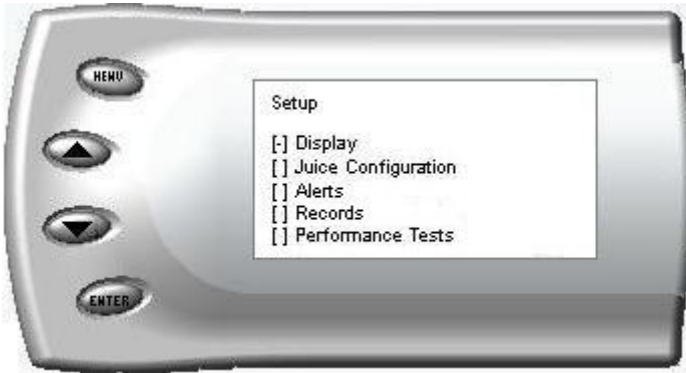
When viewing engine parameters (like the sample below), press the [Enter] button to adjust the backlight. Each time the [Enter] button is pressed, the backlight will change to either bright, dim, or off.



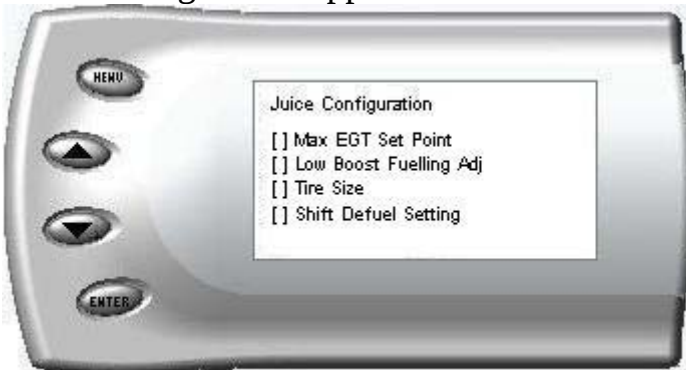
## Juice Configuration

The *Attitude* allows you to configure the Juice module in a variety of ways. To change the Juice configurations, perform the following steps:

1. Press the [Menu] button until the *Setup* screen appears:



2. Select the *Juice Configuration* option and press [Enter]. The following screen appears:



3. Select the desired option and press [Enter]. The following are descriptions of each of the Juice Configuration options available:

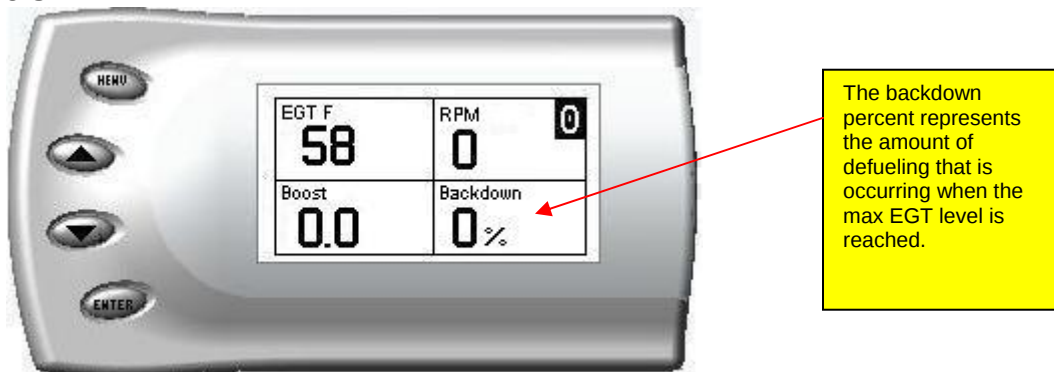
### Juice Configuration Options

- Max EGT Set Point
- Low Boost Fueling Adjust
- Shift Defuel Setting
- Tire Size

## Max EGT Set Point

As the exhaust gas temperature approaches the EGT set point, a percentage of defueling occurs. This percentage is represented by the backdown value you can display on the screen. The percentage represents the amount of *defueling* that is occurring due to the max EGT value being reached. In other words, fueling is decreased at higher percentages. When this value reaches 100% the fueling delivered by the Juice module will be totally disabled. However, stock fueling will allow the truck to reach its stock EGT levels which may exceed the preset *Max EGT Set Point* which you set in the Attitude.

**Important Note:** Any other high performance modifications in addition to the Juice can allow the fueling to exceed stock EGT levels even after 100% defueling by the Attitude is reached, which may result in detrimental EGT levels.



After selecting the *Max EGT Set Point* option from the Juice Configuration screen (previous steps), the following screen appears:



2. Change the Max EGT set point by pressing the up and down arrow keys to select the maximum temperature that you want the exhaust gas temperature to reach, then pressing [Enter]. When the exhaust gas temperature reaches this value, the power delivery will be retarded so as not to allow the temperature to exceed this set value.

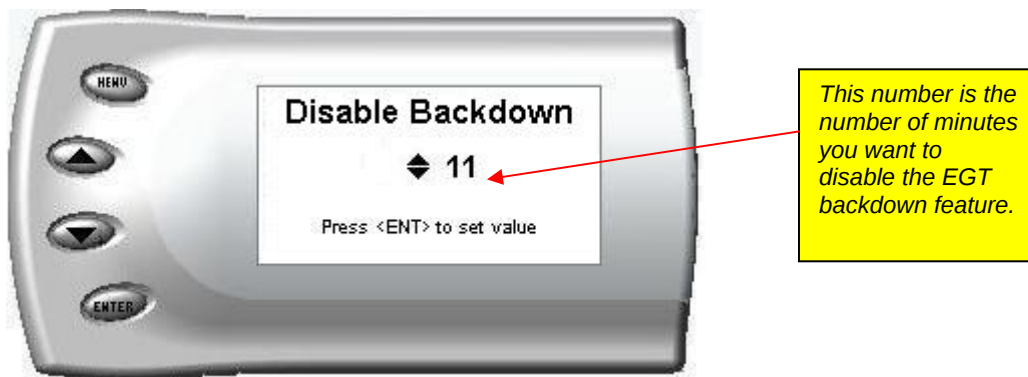
## Disabling Backdown at Set EGT

There are times you may want to disable the EGT backdown feature for a limited period such as in a competition setting. For whatever the reason you can disable the EGT backdown for a period of 1-120 minutes.

***Warning: Disabling this feature could lead to dangerous EGT levels.***

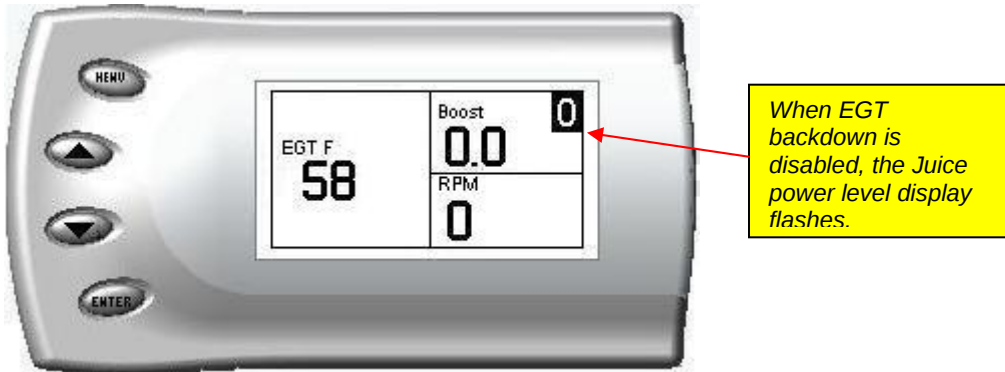
To remove the option that backs down the power at a set EGT point, perform the following steps:

1. Make sure the Attitude is set to view the EGT level as one of the engine parameters.
2. When you are viewing EGT as one of the engine parameters, press [Enter] twice quickly and the following screen will appear:



3. The number on this screen represents the number of minutes the EGT Backdown feature will be disabled. Press the up or down arrow keys to select the desired number of minutes you would like this feature disabled. (The number of minutes you do NOT want your power decreased because of high EGT levels.)

4. After you have selected the number of minutes you would like the EGT backdown option disabled, press [Enter]. The screen will return to your previous view mode, and the Juice power level indicator will flash until the designated time for disabling has been reached. When the Juice power level indicator quits flashing, your set max EGT backdown level will go into effect.

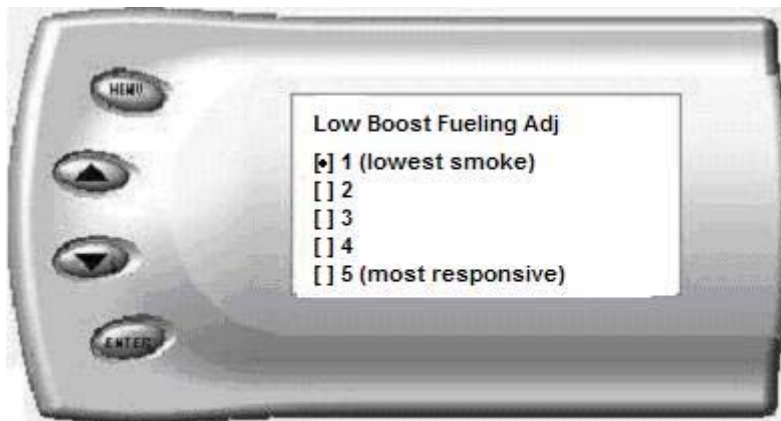


## Low Boost Fueling / Low End Responsiveness Adjustment

After selecting the *Low Boost Fueling Adj* option from the *Juice* Configuration screen (previous steps), the following screen appears:



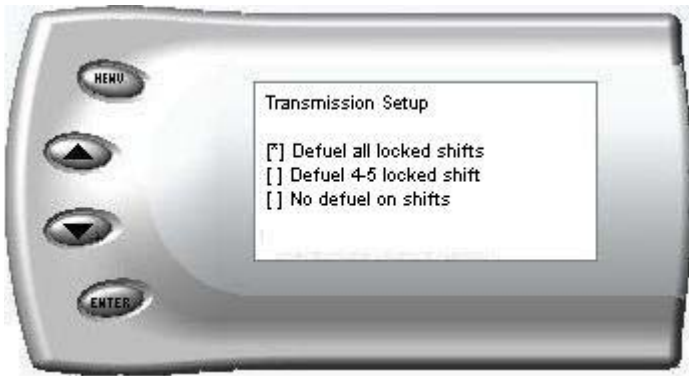
Select the power level for which you want to adjust the low boost fueling and press Enter. When you press Enter, the following screen appears allowing you to select the Low Boost Fueling Adjustment level that will be unique to that level and every time you select that power level the fueling adjustment will be set to what you chose on this screen.



Adjusting the fuel at low boost allows you to adjust the response and smoke output before the turbocharger builds boost pressure in the intake. Select level 1 for the lowest level of response and smoke at low boost, and select level 5 for the highest level. You will see a significant change in vehicle response and smoke depending upon which level you select. To leave this screen, press the [Menu] button multiple times.

## Shift Defuel Setting

With this option the amount of fuel delivered to the engine during the shift point is reduced—thus decreasing torque during the shift point. This will cause less wear on the transmission—and result in overall improved drivability.



## Transmission Setup Option Descriptions

Defueling at locked (when the torque converter is locked) shift points reduces the torque output by the engine and allows the torque converter clutch to lock after the shift.

### Defuel all locked shifts

With this option, when the torque converter is locked the amount of fuel at the shift point is reduced—thus decreasing torque during the shift point and allowing the torque converter clutch to lock. This will cause less wear on the transmission—and result in overall improved drivability.

### Defuel 4-5 locked shift

This option provides a decrease in torque output at the shift point between gears 4 and 5, thus decreasing torque during the shift point and allowing the torque converter clutch to lock. This will cause less wear on the transmission—and result in overall improved drivability.

### No defuel on shifts

This option provides no decrease in fuel during shift points. Power will be delivered throughout all of the shift points resulting in quicker more responsive shifting.

## Tire Size

If your vehicle has stock tires, there is no need to change the value on this screen. After selecting the *Tire Size* option from the *Juice Configuration* screen (previous steps), the following screen appears:



The numbers on this screen represent the circumference of your tire. Adjust the tire size by pressing the up/down arrow keys. The table below will help you determine your wheel circumference by matching your tire size with the sizes listed. For example, if your tire size is 285/ 65/ 18R, the value (circumference) you enter into the *Attitude* is 2599.0. Another alternative is to measure your tire's circumference by marking your tire and rolling it one complete revolution and measuring the distance then multiply the inches by 25.4 (i.e., 91.3 inches x 25.4 = 2319.0 mm).

| Width | Ratio | Rim | Circumference           |
|-------|-------|-----|-------------------------|
| 215   | 75    | 16  | 2288.8 mm (select 2300) |
| 245   | 75    | 16  | 2430.0 mm               |
| 265   | 75    | 16  | 2524.2 mm               |
| 285   | 75    | 16  | 2618.4 mm               |
| 295   | 75    | 16  | 2665.5 mm               |
| 305   | 75    | 16  | 2712.6 mm               |
| 315   | 75    | 16  | 2759.7 mm               |
| 325   | 75    | 16  | 2806.8 mm               |
| 265   | 70    | 17  | 2520.8 mm               |
| 285   | 75    | 17  | 2698.2 mm               |
| 315   | 75    | 17  | 2839.5 mm               |
| 285   | 65    | 18  | 2599.0 mm               |
| 285   | 60    | 18  | 2509.5 mm               |
| 325   | 60    | 18  | 2660.2 mm               |
| 265   | 70    | 16  | 2441.0 mm               |
| 275   | 70    | 16  | 2485.0 mm               |
| 305   | 70    | 16  | 2616.9 mm               |

| Tire Size |  |           |
|-----------|--|-----------|
| 33        |  | 2631.9 mm |
| 35        |  | 2791.5 mm |
| 37        |  | 2951.0 mm |
| 38        |  | 3030.7 mm |

# Alerts

The Attitude can actually alert you when certain engine parameter levels are met such as EGT, Boost, and Engine Temperature. When these parameter thresholds are met or exceeded, the Attitude screen will display the value and you will hear a repeating audible alarm. The volume of this audible alarm can not be changed.

- EGT Alert
- Engine Temp Alert
- Boost Alert
- Speed Alert

To set alerts, perform the following steps:

1. Press the [Menu] button until the *Setup* screen appears:



2. Select the *Alerts* option and press [Enter]. The following screen appears:



3. Turn alerts *On* by scrolling to the *Alerts are On/Off* option and press [Enter] to turn alerts On or Off.

To change the EGT Alert value [default is 1350] scroll to the *EGT Alert* option and press [Enter]. The following screen appears:



4. Press the up and down arrow keys until you see the desired EGT level at which you want to be alerted and press [Enter] to set that value.
5. To change the Boost Alert value [default is 25] scroll to the *Boost Alert* option and press [Enter]. The following screen appears:



6. Press the up and down arrow keys until you see the desired Boost level at which you want to be alerted and press [Enter] to set that value.
7. To change the Engine Temperature Alert value [default is 210] scroll to the *EngTmp Alert* option and press [Enter]. The following screen appears:



8. Press the up and down arrow keys until you see the desired Engine Temp level at which you want to be alerted and press [Enter] to set that value.
9. Press the up and down arrow keys until you see the desired Transmission Temp level at which you want to be alerted and press [Enter] to set that value.
10. To change the Speed Alert value [default is 70] scroll to the *Speed Alert* option and press [Enter]. The following screen appears:



11. Press the up and down arrow keys until you see the desired Speed at which you want to be alerted and press [Enter] to set that value.

**Note:** If you desire to temporarily stop the Attitude from alerting you to a specific threshold, while the actual alert is signaling you, press any key (menu, arrow or enter) and the alert will temporarily stop. When all of the alarm parameters drop below the set thresholds, then exceed them again, the alert will start up again.

## Records

The *Attitude* can keep a record of the maximum engine parameter values that your vehicle produces. These records are stored in the Records section of the Attitude.

- Engine Temp F
- 0-60
- ¼ mile
- Backdown
- RPM
- Speed

To view or clear these values, perform the following steps:

1. Press the [Menu] button until the *Setup* screen appears:



2. Select the *Records* option and press [Enter]. The following screen appears:



3. All of the records are stored on this screen. To clear an individual record, select that record and press [Enter]. To clear all the values, select *Clear All* and press [Enter].

## Performance Tests

The *Attitude* allows you to test the performance of your vehicle by timing the 0-60 and the ¼ mile times. To run these tests, perform the following steps:

1. Press the [Menu] button until the *Setup* screen appears:



2. Select the *Performance Tests* option and press [Enter]. The following screen appears:



3. Select the desired performance test and press [Enter]. The following screen appears:



4. When your vehicle is at a complete stop, the following screen automatically appears:



## Hot Unlock Code

Edge Products allows you to upgrade your Juice/Attitude to include a level 6 power level. The power settings for this level are 150 HP and 300 Ft Lbs. Torque. To get the unlock code you must first contact Edge Products Technical Support. There is a cost associated with accessing level 6 and a release liability waiver must be signed.



**IMPORTANT NOTE:** *If your Attitude Monitor is Part number EAC1000 you will not have the above option, you can purchase a HOT upgrade, but your Juice module will need to be sent in for an update. If you're Attitude is part #EAC1000 and you wish to purchase the HOT module call Edge Tech Support and they will direct you on how to do so.*

## Adjusting Juice Power Levels

The Juice power level is displayed in the upper right-hand corner of the screen when vehicle parameters are being viewed. To adjust the power levels, press the arrow keys to the desired level. Levels can be changed at any time while viewing vehicle parameters.



### Power 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: | 40 HP      | 150                                             |
| Level 2: | 60 HP      | 180                                             |
| Level 3: | 75 HP      | 200                                             |
| Level 4: | 90 HP      | 250                                             |
| Level 5: | 125 HP     | 325                                             |
| Level 6: | 150 HP     | 350 (Contact Edge Products to get unlock code.) |

**IMPORTANT NOTE:** *If you have Part number EAC1000 you will not have the option for a 6<sup>th</sup> power level.*

**Technical Support**  
**888-360-3343**

**To expedite your support call, please have part number (i.e., EAF2100A), version number, and Date of Manufacture ready prior to calling support.**

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*Manual Version 4*