

*Power Edge Juice Module*  
*Ford 6.0 Powerstroke Diesel®*



© 2005, Edge Products Incorporated  
All rights reserved.

Edge Products Incorporated  
1080 South Depot Dr.  
Ogden, UT 84404  
(801) 476-3343  
[www.edgeproducts.com](http://www.edgeproducts.com)

*Manual Version 110105*

## TABLE OF CONTENTS

Two Function Bar Graph Display Sample _____	5
Two Function Digital Display Sample _____	6
Three Function Digital Display Sample _____	6
Four Function Digital Display Sample _____	6
Max EGT Set Point _____	11
Disabling Backdown at Set EGT _____	11
Low Boost Fueling Adjustment _____	12
Transmission Setup _____	14
Power Gains _____	18

Thank you for purchasing the Power Edge *Juice* Module for the Ford 6.0 Powerstroke 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 concerns or questions, please contact us.

**The *Juice* Module is a high performance product**

**It is strongly recommended that EGT gauges and boost gauges**

**be installed with the use of this product.**

**THIS PRODUCT MUST BE REMOVED WHEN TAKING VEHICLE TO VEHICLE DEALERSHIP OR  
OTHER SERVICE FACILITY!!**

**LEAVING PRODUCT INSTALLED MAY AFFECT DEALER DIAGNOSTIC ANALYSIS  
AND SCAN TOOL FUNCTIONS!!**

The installation of this product indicates that the BUYER has read and understands this agreement as well as the "disclaimer of liability" agreement contained at the end of this document and accepts its terms and conditions.

## **Power Edge Juice Module Installation Instructions**

**IMPORTANT: Read all Disclaimer, Warranty, and Installation Instructions before installing this product.**

### **Supplied Items:**

1. Power Edge Juice Module
2. Harness Cable
3. Wire Ties

### **Needed Items:**

1. 8mm wrench to disconnect battery terminals
2. Regular screw driver

Please read these instructions through completely and thoroughly understand each step prior to installation.

## **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.

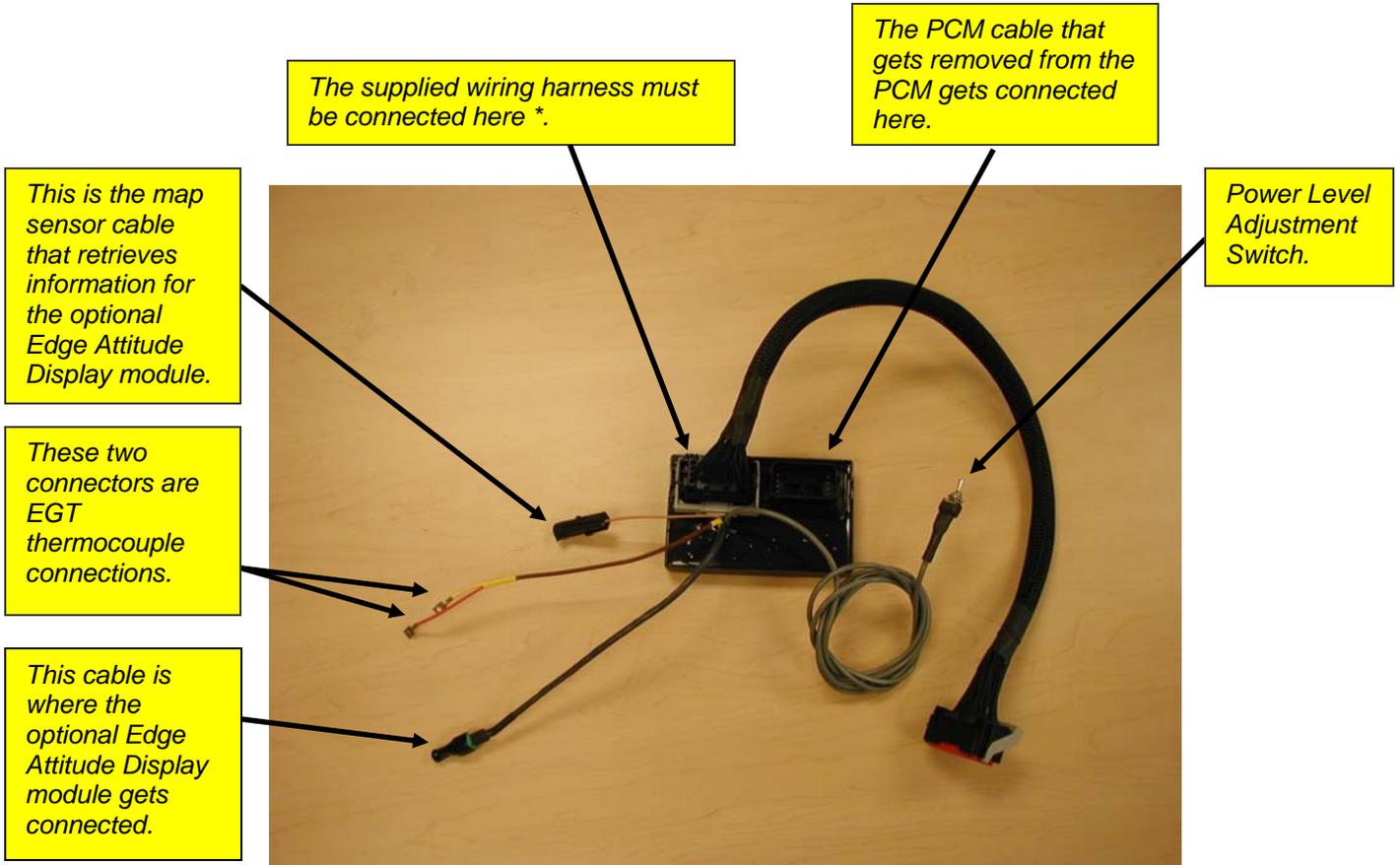
Consumers of aftermarket products are protected by The Federal Magnusson-Moss Warranty Act. The Act states that if something breaks on your car and you take it in for warranty repair, the dealer must honor your warranty unless they can prove that whatever modifications you have added to your car actually 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.

## The Power Edge Juice Module

This picture shows the Power Edge Juice Module with the harness cable attached. It is essential that the cable that is supplied with the module gets connected as shown in the picture. **Both ends of the wiring harness supplied with the module are identical.**

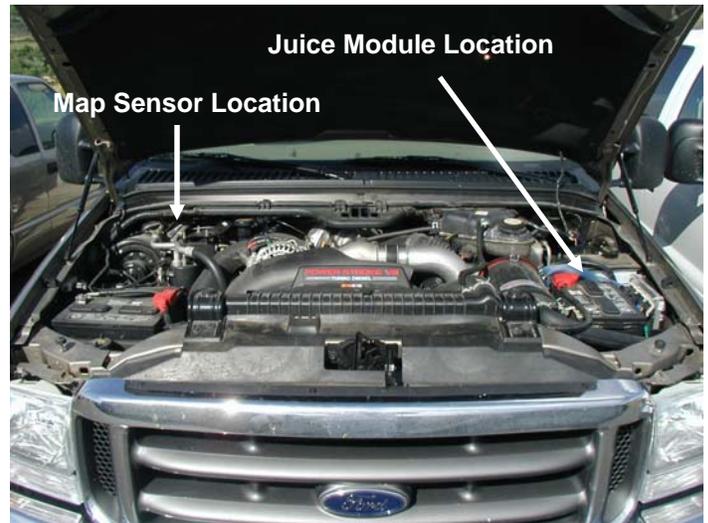


**\*Note:** If the PCM cable is not installed correctly, the truck will either run at the stock power level or not start (depending on the manufacture date of the truck). In addition, if an Edge Attitude controller is connected, it will display zero rpm. If either of these symptoms occurs, be sure and check your cable connections.

## Module Connection Location

This picture shows the location where the module will be installed and the location where the map sensor wire (the brown wire included if you purchased an Edge *Attitude*) should be installed.

NOTE: The map sensor wire is only installed/included if the Edge *Attitude* module is also being installed.



The Power Edge Juice Module can rest to the side of the power steering fluid reservoir located on the driver's side fender.

## Harness Connection

1. On the driver's side of the engine compartment, remove the battery cables (positive first) using an 8 mm wrench. Disconnect the cables on the driver's side battery ONLY.
2. Remove the battery cover by releasing the tab located on the left side (towards the front of the vehicle) of the battery cover. You may need to use a screwdriver to pry the tab.
3. Disconnect the middle of the 3 connectors and pull it around to the right side of the power steering fluid reservoir.
4. Plug the wiring harness supplied with the Juice module into the Juice connector as shown in the picture on page 3. **(Both ends of the wiring harness supplied with the module**



are identical.)

5. Insert the other end of the Juice wiring harness to the middle connector on the PCM.
6. Insert the stock connector that you disconnected from the PCM to the Juice module and lock in place with the gray levers.
7. Connect the map sensor cable (if installing an Edge *Attitude*) to the map sensor connection. See the picture on the previous page for the location of the map sensor within the engine compartment.



8. Place the Juice module on the right side of the power steering fluid reservoir.
9. Replace the battery cables and battery cover.



**Notice: Use caution when inserting connector bodies. If connector does not slide smoothly inspect pins and retry.**

### **Final Inspection**

10. Recheck all connections for a properly secure installation.
11. Using the supplied wire ties, secure the wiring harness from possible damage from moving parts under the hood.
12. Start engine. Engine should start and run like a stock truck. If engine does not start or run properly, remove box and inspect pins inside connector. If conditions still exist, contact your dealer or Edge Products, Inc. When trying to restart, wait 10 seconds once key has been turned off.

## Adjusting Power Levels

The Juice has three power levels to choose from. This picture shows the switch that changes these power levels. The wire connected to the switch is long enough to allow installation of the switch in the cab of your vehicle. The power levels produce the following rear wheel power gains:

Level 1:	60 HP, 100 T
Level 2:	80 HP, 160 T
Level 3:	100 HP, 250 T

**NOTE:** The 3 stage power switch on the Juice module is disabled when the Attitude monitor is installed and the switch does not have to be set at a certain power level. If installing the Attitude monitor, the switch cable should be coiled up and fastened under the kick panel or under the hood in the engine compartment.



## Transmission Adjustment Period

The first 200 miles of driving after installing the Juice your PCM will automatically adjust to the increased power level. Your truck may run slightly different than you are accustomed to during this period. Just drive normal and it should recover to its normal state.

## Key Features and Operation

The Juice module offers a large power increase over stock throughout the rpm range, but 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 up grades.

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.

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

## Technical Support: (801) 476-3343

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

### **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 Inc. 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 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 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.

Legal in California only for racing vehicles which may *never* be used upon a highway.

## Attitude Instructions Ford 6.0 Powerstroke



## About the Attitude

Congratulations on purchasing the *Attitude* by Edge Products Incorporated, the leader in diesel electronics and power gain technology. The following manual contains information and instructions on the proper use of the *Attitude*. Please read carefully before proceeding to install the *Attitude* to your vehicle.

**IMPORTANT:** This version of the *Attitude* is only compatible with the Edge Ford 6.0 Juice module version 2.4 or later. If you have a prior version, an upgrade is necessary before the *Attitude* will connect to your Juice module.

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)
- RPM
- 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.

## 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.*

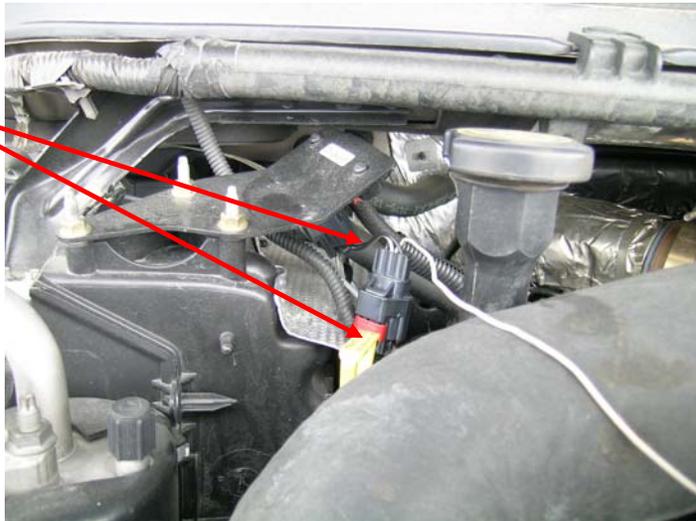
3. Connect the *Attitude* to your Edge *Juice* module by snapping together the cables with the green connections. Secure any excess cable to prevent entanglement with moving engine parts.



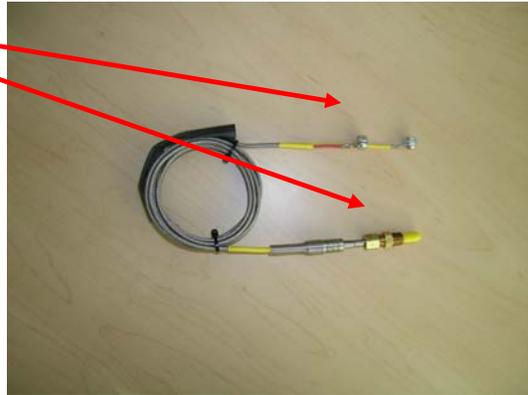
*Juice mounting location.*

*Map sensor location.*

*The map sensor connection is located near the oil filler cap as shown here. This photo shows the Edge map sensor wire connected.*

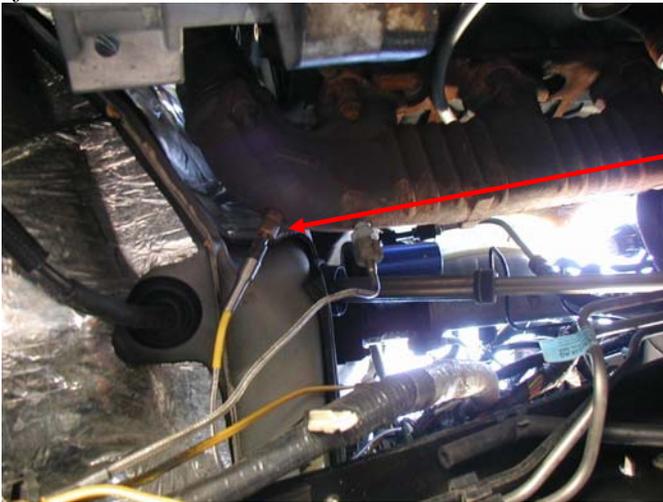


*EGT with thermocouple connectors and brass threaded insert.*



4. To install the EGT probe, first determine where you will drill your hole. The section of the exhaust manifold that requires tapping is located on the driver's side just above the driveline. (See picture below for suggested location. This photo shows the truck from the *ground up*.) The NPT fitting and the top of the probe will stick up between 1/2" to 1" above the mounting surface, so make sure you have clearance for these.

**TIP:** *One effective way to avoid metal fragment contamination in your engine is to place grease in the threads of your drill bit/tap tool when drilling/tapping the hole in your manifold.*

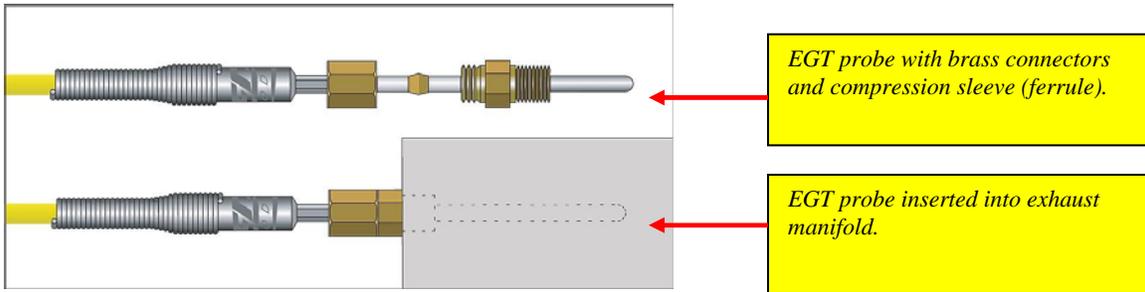


*The EGT thermocouple installed into the drilled and tapped exhaust manifold.*

*(Looking **up** at the exhaust manifold from under the vehicle.)*

5. Drill a 5/16" hole, then use the pipe tap to cut the threads. Use a 1/8" NPT tapered pipe tap (available at your hardware store), and follow the instructions with the tap. The pipe tap is tapered, so you only want to turn the tap until the bottom threads of the tap are slightly deeper than flush with the inside of the exhaust manifold wall. If you tap in too far, your fitting will have to be screwed in very deeply.

- Now that you have drilled and tapped your hole, install the engine side of the fitting by tightening the tapered thread end into the hole. Ideally the tip of the fitting would be flush with the inside of the exhaust flow path, and not much deeper. Tighten the fitting so that it is securely mounted. To install the probe in the fitting, slide the top part of the fitting over the probe with the threads facing outward, and then slide the small brass ferrule onto the probe and hand screw the assembly into the bottom part of the fitting. Slide the probe into the brass fitting so that the tip is approximately centered in the exhaust gas stream. Tighten the top nut of the fitting just tight enough to keep the probe firmly mounted.



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



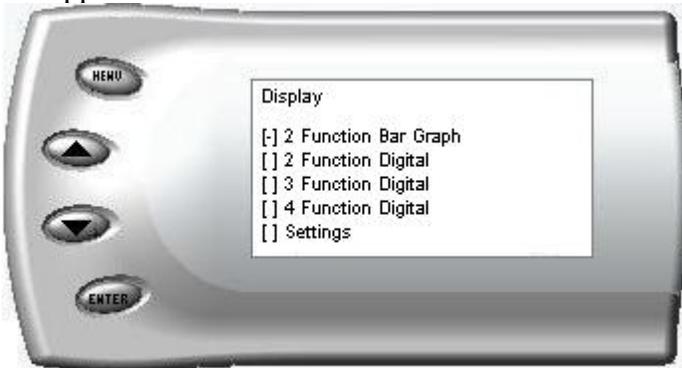
## Changing the Display View

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:

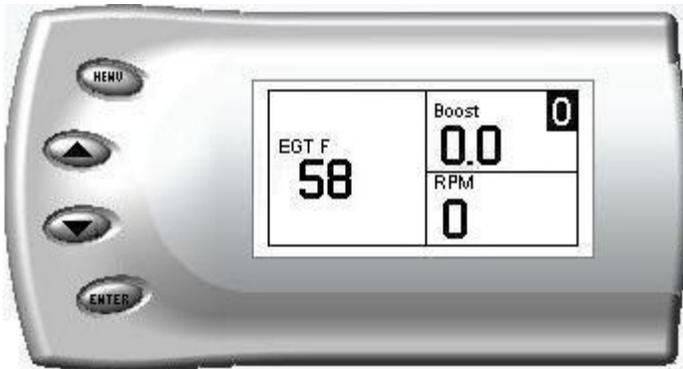
### *Two Function Bar Graph Display Sample*



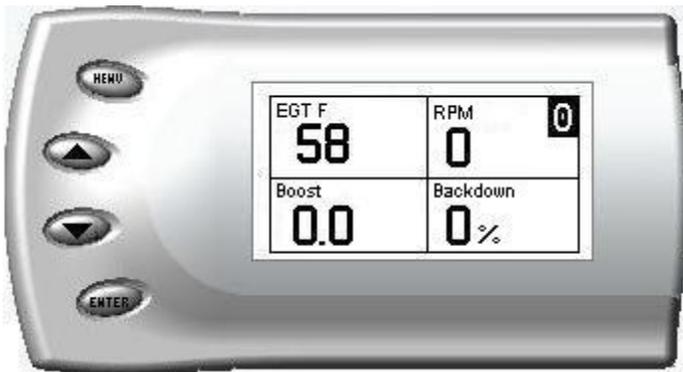
*Two Function Digital Display Sample*



*Three Function Digital Display Sample*



*Four Function Digital Display Sample*



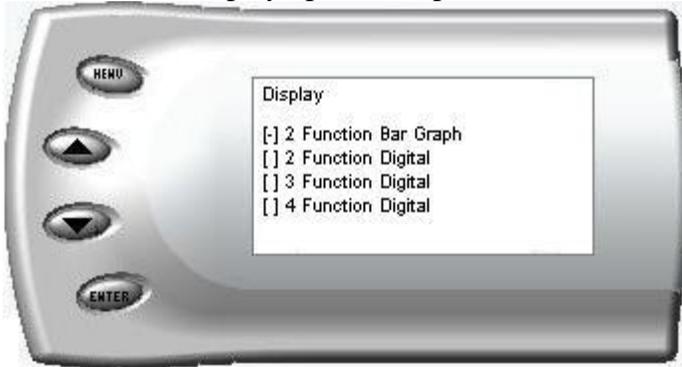
## Changing the Variables on the Screen

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:



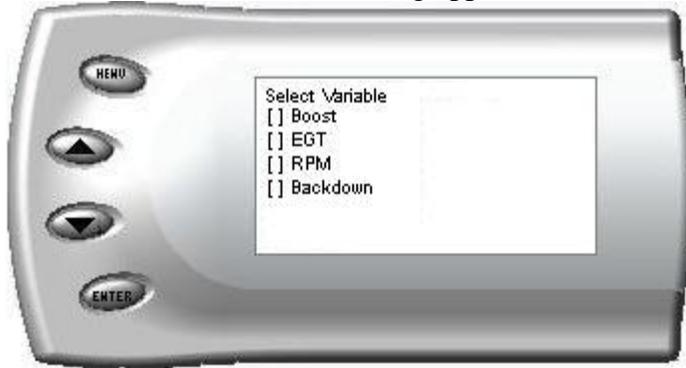
2. Select the Display option and press [Enter]. The following screen appears:



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



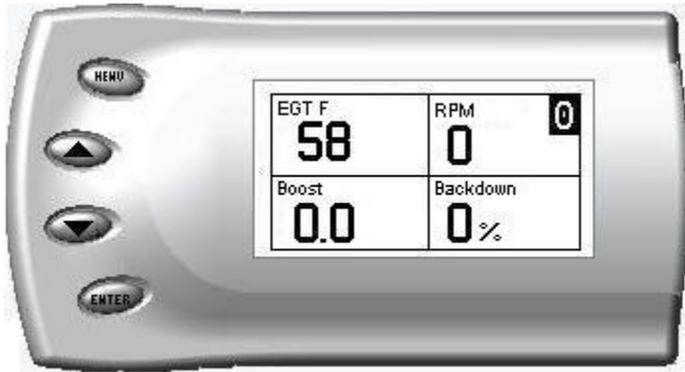
- This screen lists the current variables you have selected to view and their respective positions on the screen (i.e., TOP LEFT, etc.). Select the variable you would like to change and press [Enter]. A screen listing the possible replacement variables similar to the following appears:



- 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

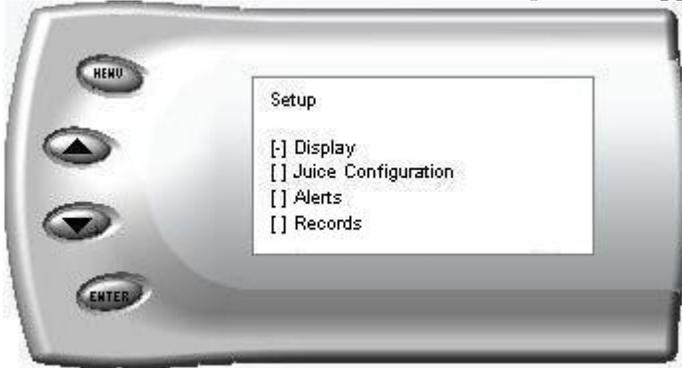
When viewing engine parameters (like the sample below) press the [Enter] button to adjust the backlight. Each time the [Enter] button is pressed, the backlight will change to either bright, dim, or off.



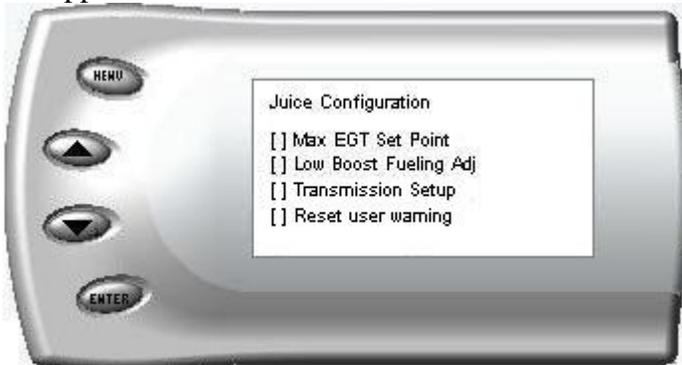
## Juice Configuration

The *Attitude* allows you to configure your 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:

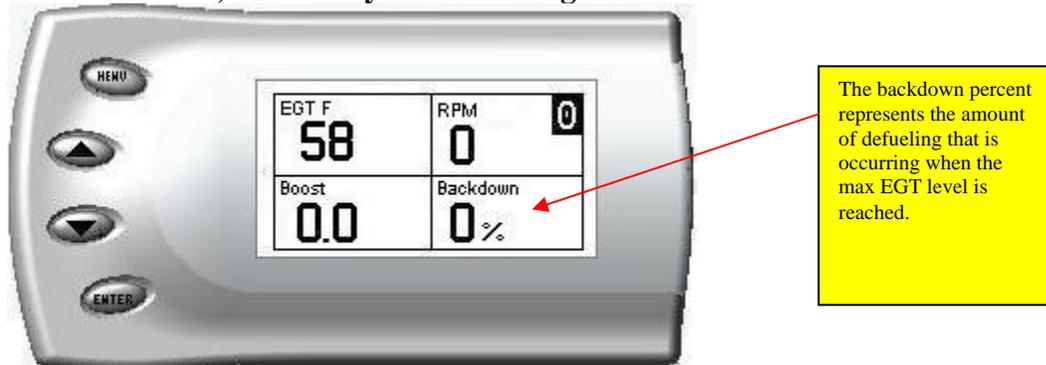


3. Select the desired option and press [Enter]. The following are descriptions of each of the Juice Configuration options available:

## 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 your 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 has been 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 established 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 dangerous EGT levels.**



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



1. Change the Max EGT set point by pressing the up and down arrow keys to select the maximum temperature that you want your 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.

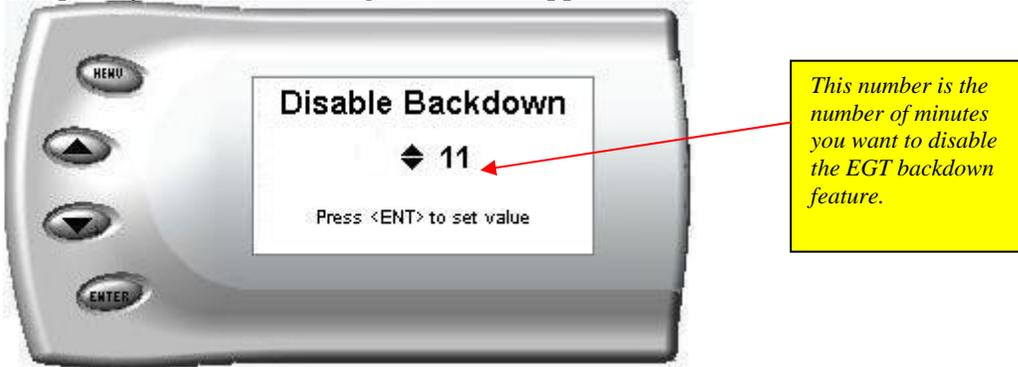
## Disabling Backdown at Set EGT

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 1-30 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:

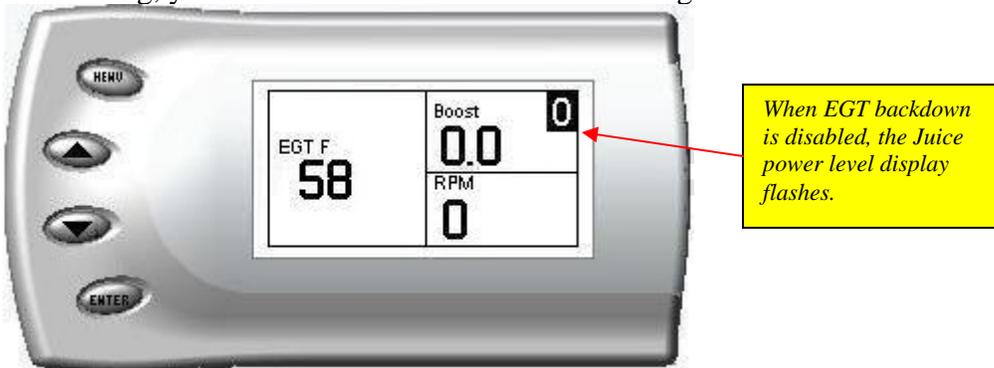
1. Make sure the Attitude is set to view the EGT level as one of the engine parameters.
2. When you are viewing EGT as one of the engine parameters, press [Enter] twice quickly and the following screen will appear:



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.)

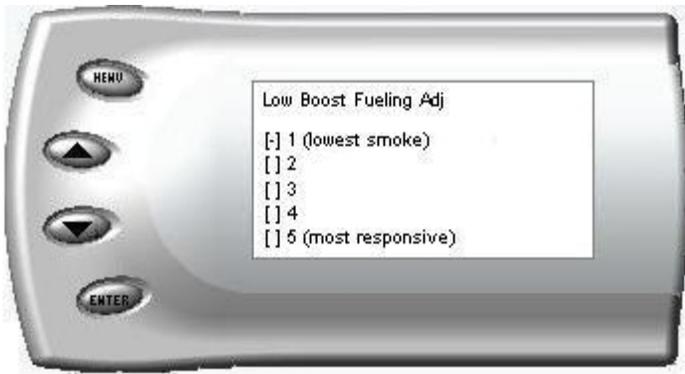
**Note:** *Selecting this option automatically sets your Juice module to level 5.*

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 Adjustment***

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



Adjusting the fuel at low boost allows you to adjust the way in which your truck delivers fuel at low boost levels. Select option 1 for the lowest level of fuel at low boost, and select option 5 for the highest level. You will see a significant change in vehicle response and smoke level depending on which option you select.

## Transmission Setup

After selecting the *Transmission Setup* option from the Juice Configuration screen (previous steps), the following screen appears:



### *Defuel shifts all levels*

With this option 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.

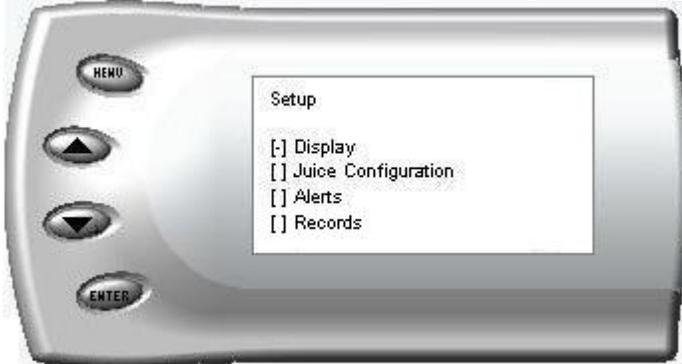
### *Defuel shifts levels 4 & 5*

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.

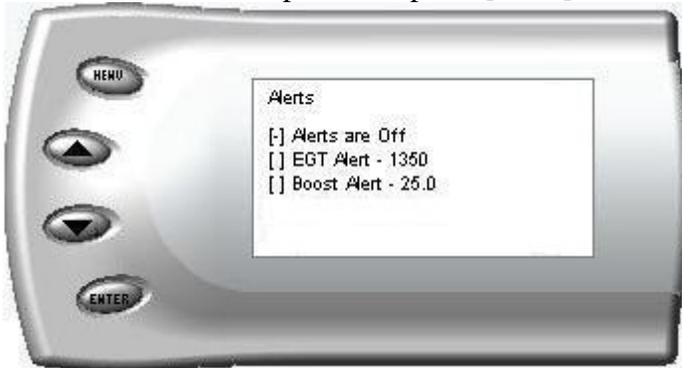
## Alerts

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, 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. 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.

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.

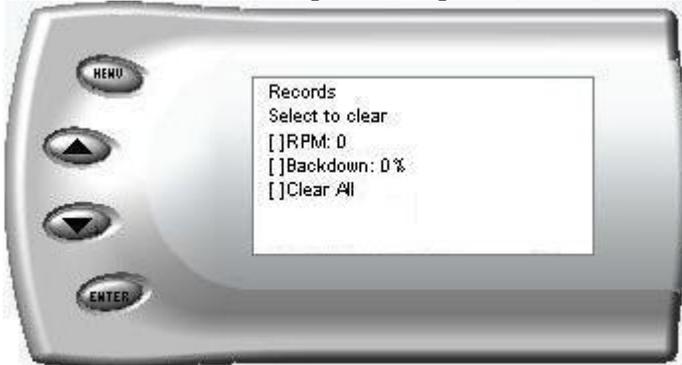
## Records

The *Attitude* can actually keep a record of the maximum engine parameter values that your vehicle produces. These records are stored in the Records section of the Attitude. To view or clear these values, perform the following steps:

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



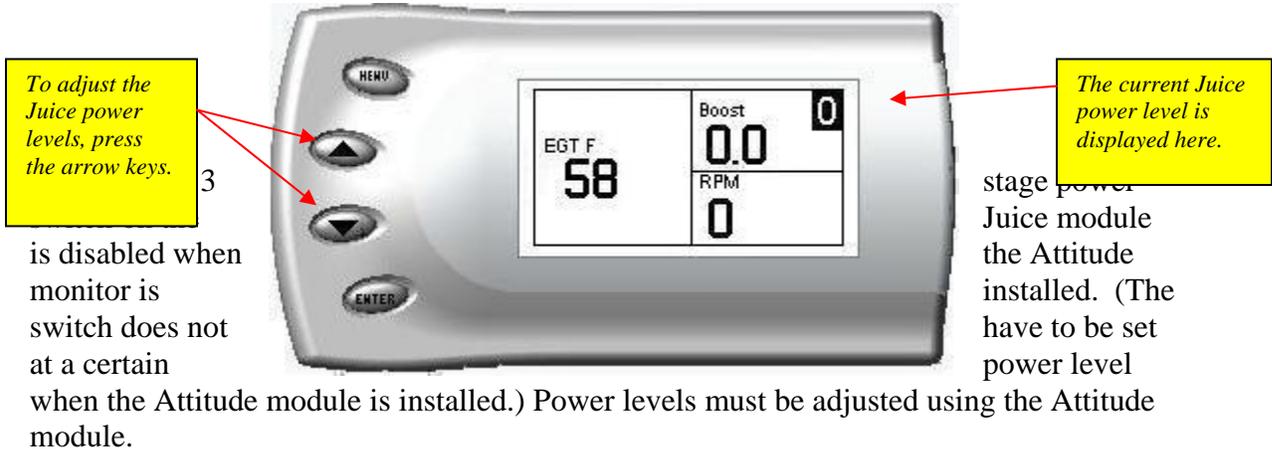
2. Select the *Records* option and press [Enter]. The following screen appears:



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].

## 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.



is disabled when monitor is switch does not at a certain when the Attitude module is installed.) Power levels must be adjusted using the Attitude module.

stage power Juice module the Attitude installed. (The have to be set power level

### 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 0:	0	0
Level 1:	40 HP	80
Level 2:	60 HP	100
Level 3:	80 HP	160
Level 4:	100 HP	250
Level 5:	115 HP	290

## Index

adhesive tape	1	getting connected	1
adjusting power levels	18	Graphs	5
Alerts	15	Horsepower gains	18
backlight	9	Juice Configurations	10
Bar Graph	5	juice power level	18
Boost alert	16	Low Boost Fueling Adjustment	13
cable connections	2	map sensor location	2
changing variables	7	Max EGT set point	11
Clearing records	17	Maximums	17
defueling at shift points	14	mounting the attitude	1
Digital Display	6	Records	17
dim	9	<i>Setup</i>	5
disabling EGT backdown	12	shift point defueling option	14
Disclaimer	2	Storing records	17
EGT alert	16	torque converter	14
EGT backdown disable	12	Torque gains	18
EGT sensor installation	4	viewing different variables	7

Technical Support: (801) 476-3343

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