

**Attitude Instructions
Ford 6.0 Powerstroke**



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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 arm and, using the self adhesive tape on the mounting arm base, stick the mounting hardware to the back of the Attitude and to your vehicle's dash area. Due to the adhesive tape's inability to stick in extreme hot and cold conditions, two set screws are included with your Attitude mounting hardware to secure the mounting hardware to the dash of your vehicle. Desired mounting locations will vary widely.



Due to adhesive tape failure in some conditions, two set screws are included to permanently secure the mounting arm to your vehicle if desired.

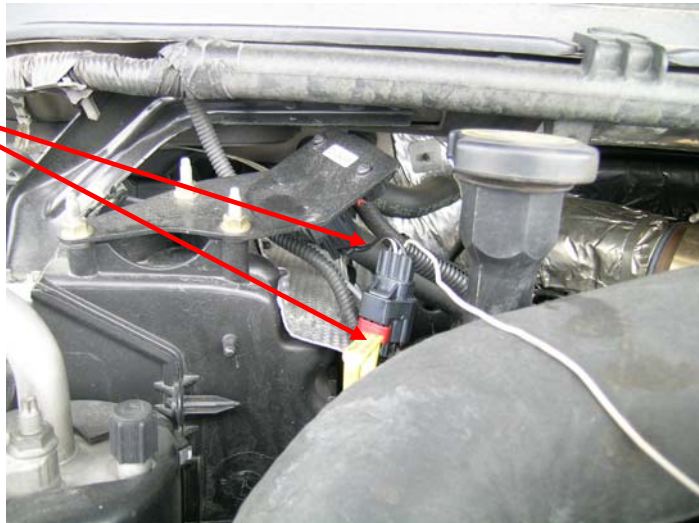
3. Connect the Attitude to your Edge Juice module by snapping together the cables with the green connections and connecting the map sensor (the little brown wire) to the map sensor connection. Secure any excess cable to prevent entanglement with moving engine parts.

Juice mounting location.

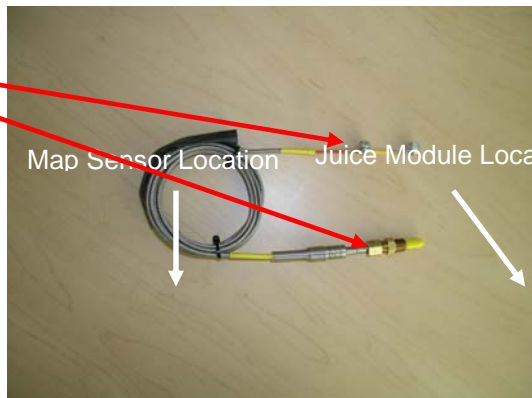
Map sensor location.



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

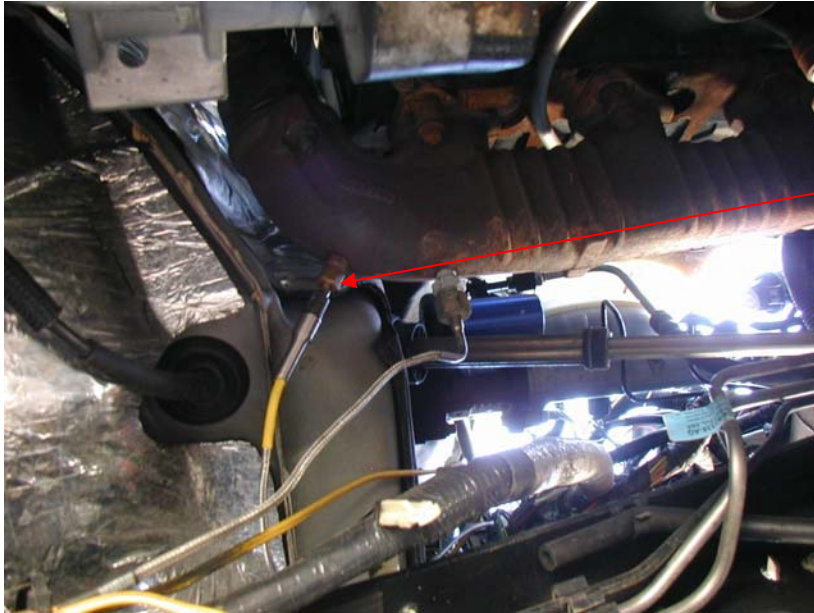


EGT with thermocouple connectors and brass threaded insert.



4. It is necessary to tap a small hole

into your exhaust manifold to insert the EGT sensor. Drill the hole using a 5/16” drill bit, then tap it with an 1/8” NPT tap. Once the hole is drilled and tapped, insert the EGT sensor by threading it into the hole. The photo below is taken viewing the truck from the *ground up*. The section of the exhaust manifold that requires tapping is located on the driver’s side above the driveline.



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

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

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



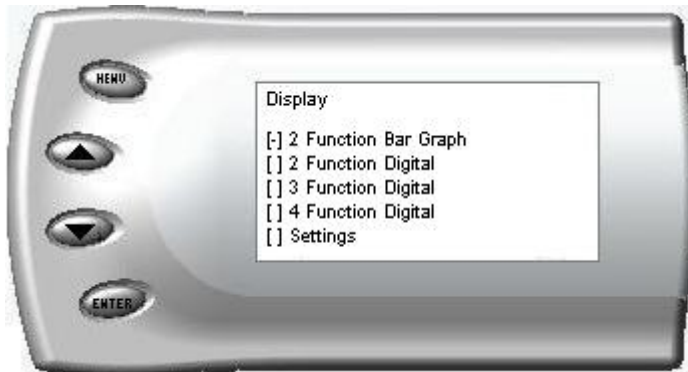
Changing the Display View

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:

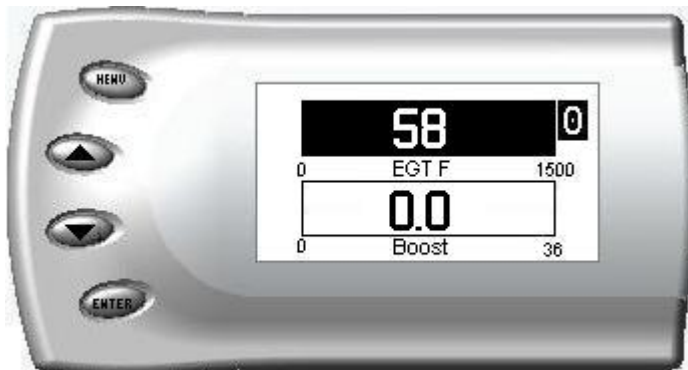


2. Select the Display option and press the [Enter] button. The following screen appears:

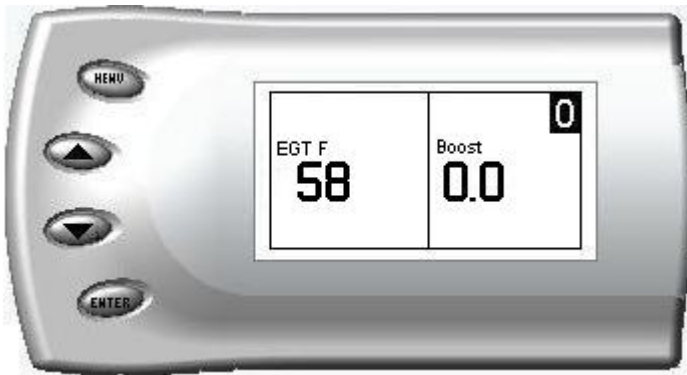


3. Select the desired viewing option by using the up and down arrows and pressing the [Enter] key. Below are examples of the display options:

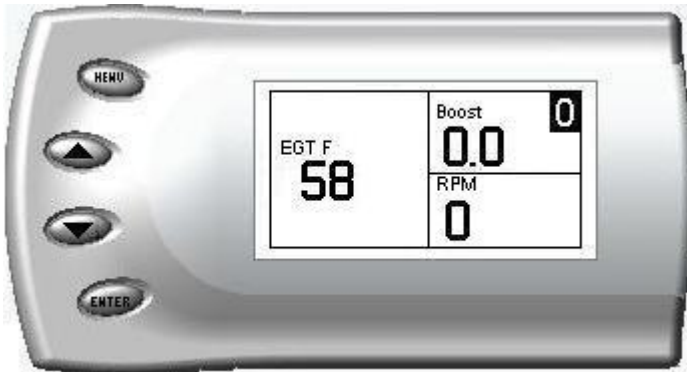
Two Function Bar Graph Display Sample



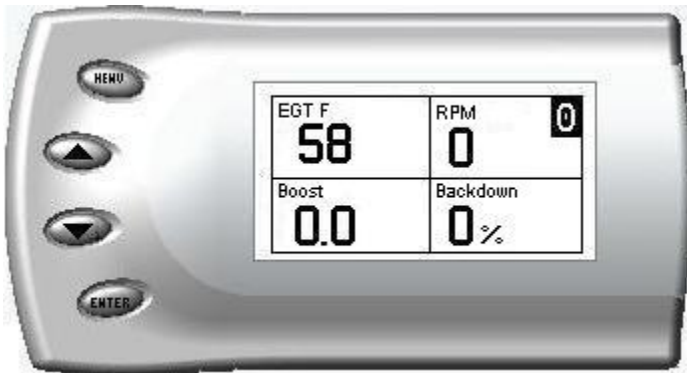
Two Function Digital Display Sample



Three Function Digital Display Sample

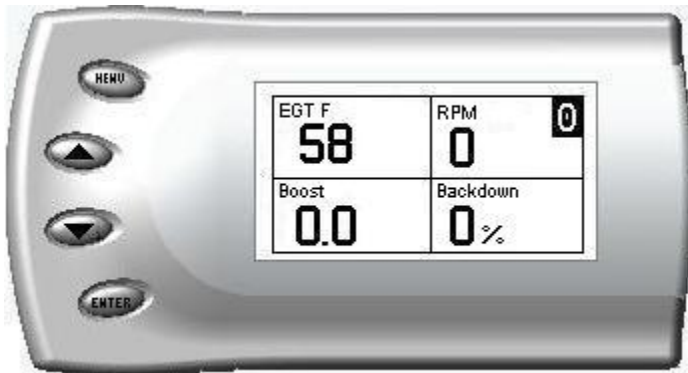


Four Function Digital Display Sample



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.



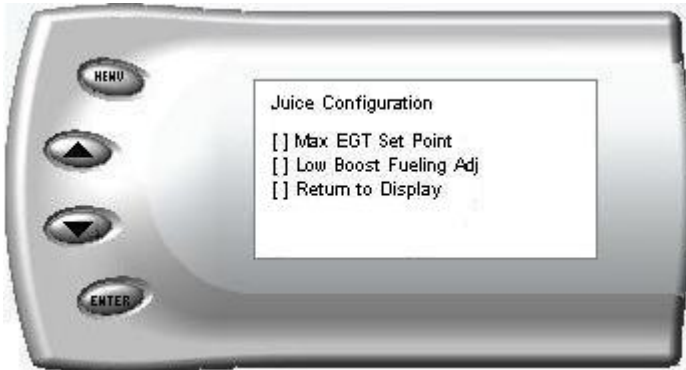
Juice Configuration

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:

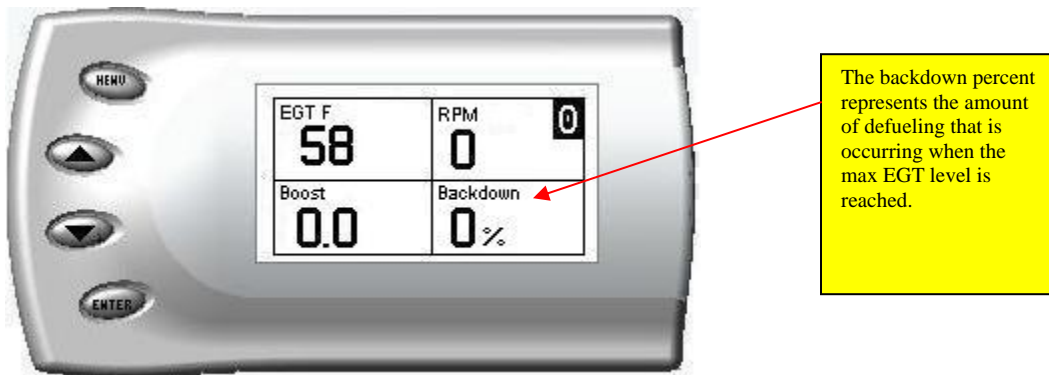


3. Select the desired option and press [Enter]. The following are descriptions of each of the Juice Configuration options available:

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.

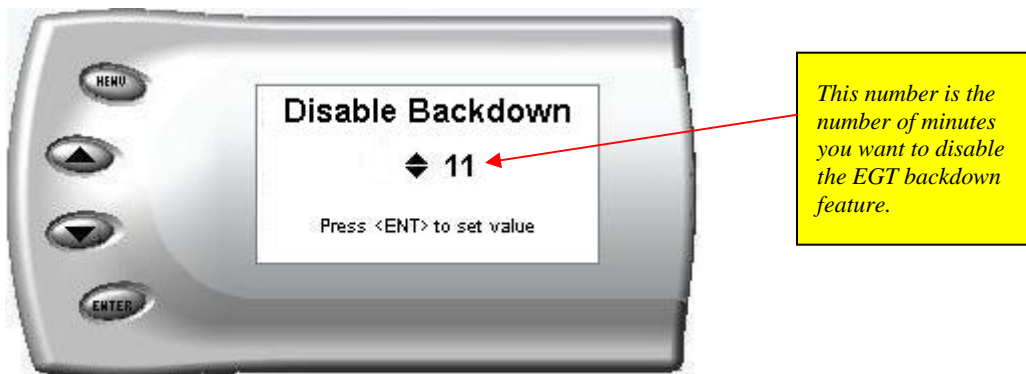
Disabling Backdown at Set EGT

There are times you may not 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:

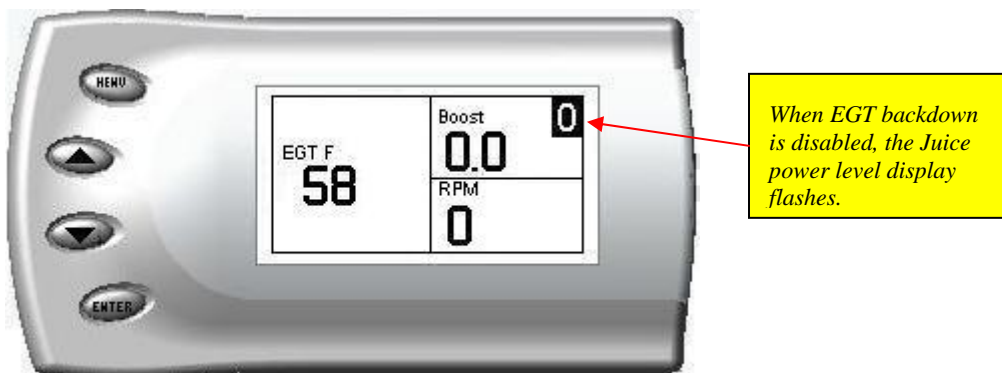
1. Make sure the Attitude is set to view the EGT level as one of the engine parameters.
2. When you are viewing EGT as one of the engine parameters, press [Enter] twice quickly and the following screen will appear:



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.)

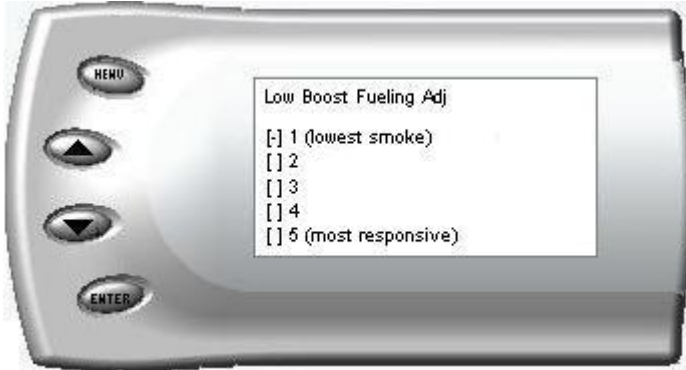
Note: *Selecting this option automatically sets your Juice module to level 5.*

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.

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.



NOTE: The Juice module power level adjuster is disabled when the Attitude controller is installed. Power levels must be adjusted using the Attitude controller.

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

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