Connecting the Pulse Control Monitor:

1.) Find your desired mounting location so that you may route the cable to the Adrenaline module.
2.) Run the cable through the firewall at the main wiring harness grommet and out to the Adrenaline module.
3.) Connect the 4-pin connector on the Pulse cable to the mating 4-pin connector on the Adrenaline wiring harness.

Using the Pulse Control Monitor:

Changing Power Levels

To change power levels simply press the *Up* or *Down* button. You will hear a chirp and the display will show you which power level you have changed to. At all times the Pulse will display the current power level on the right hand side in the middle of the display.

Customizing Your Display

1.) Enter the main menu by pressing the menu button.
2.) Select *Display Setup* by pressing the *Enter* key.
3.) Select the display style that you want. Once inside you will be able to set up 2 different displays of the same type to toggle between on the main display. Choose your display type by scrolling to the display you want and pressing *Enter*.
4.) Now choose your parameters. Once a parameter is selected it will take you back to the parameter selection menu so that you may choose the next parameter you want to display. On the menu you will see abbreviations such as *TL* or *TR* for Top Left and Top Right as well as a visual icon that shows you which display area you are choosing a parameter for. In addition, the right side of the menu will show you an abbreviation of the parameter that is currently

selected for that display. To set up your second display or your "Flip Screen" simply scroll down to the *Disp. 2* menu choices.

*Note: *Disp. 1* is always the display you leave on the main display when you enter the main menu. The Pulse will keep track of the correct parameters and place them in the appropriate menu line. For example, if you have *Disp. 1* TL set for EGT and you toggle to *Disp. 2* before entering the menu then EGT will now be shown as *Disp. 2* TL EGT.

5.) When finished simply use the *Menu/Back* button to take you to the main menu or to the main display.

Flip Screen

To use the Flip Screen simply press the *Enter* button when you are on the main display. This will show your alternate parameters you selected in the previous step. You may toggle between displays anytime you wish.

Configuring De-Fueling

De-fueling is a safety feature that allows you to set safety limits on various parameters the Adrenaline/Pulse module monitors. Setting a de-fueling parameter allows the Adrenaline/Pulse to monitor your gauges for you and make corrective fueling and timing adjustments to keep your engine within safe limits. It is recommended to use the EGT de-fueling set at 1250 deg for maximum safety. Remember these are limits and the Adrenaline will likely start correcting for these parameters before they actually reach the desired set point to ensure the limit is not over shot. You may set de-fueling for parameters that are not being displayed if you desire. Aftermarket injectors and other modifications may also hinder the Adrenalines ability to de-fuel properly and you may want to set your limits accordingly.

1.) Enter the main menu by pressing the *Menu* button
2.) Select *Alerts Setup* by highlighting it and pressing the *Enter* key
3.) Select *Defuel Settings* by highlighting it and pressing the *Enter* key
4.) Choose the parameter you want the Adrenaline to de-fuel on and press the *Enter* key
5.) Use the *Up* and *Down* arrows to select the value that you do not want to exceed for that parameter, when finished press *Enter*.
6.) When you have completed your de-fueling choices use the *Menu/Back* button to escape to the main menu or the main display

*The value you have chosen for each parameter will be displayed beside that parameter in the main de-fuel menu. When a parameter is in alarm and causing a de-fueling situation the main display will show a pop up that it is de-fueling along with the parameter and current value that is causing the de-fueling.

Configuring Warnings

Warnings are used for those that wish to control the vehicles limits manually while allowing the Pulse to warn them of a particular parameter. You can set warnings for parameters that are not being monitored as well.

1.) Enter the main menu by pressing the *Menu* button
2.) Select *Alerts Setup* by highlighting it and pressing the *Enter* key
3.) Select *Warnings Settings* by highlighting it and pressing the *Enter* key
4.) Choose the parameter you want the Adrenaline to warn you on and press the *Enter* key
5.) Use the *Up* and *Down* arrows to select the value that you want to be warned at for that parameter, when finished press *Enter*.
6.) When you have completed your warning choices use the *Menu/Back* button to escape to the main menu or the main display

When a warning is reached the Pulse will display a Warnings Pop-Up menu and show you the parameter that has exceeded your set limit.

Audible Settings

Audible Settings are used for both De-fueling and Warnings. This allows you to turn audible alerts on in conjunction with the visual warnings and select what sort of tone you desire to hear when you need to be alerted.

1.) Enter the main menu by pressing the *Menu* button
2.) Select *Alerts Setup* by highlighting it and pressing the *Enter* key
3.) Select *Audible Settings* by highlighting it and pressing the *Enter* key
4.) Select *Alerts On/Off* by highlighting it and pressing the *Enter* key
5.) Choose either *Alerts On* or *Alerts Off* by highlighting your choice and pressing *Enter*
6.) If you chose *Alerts On* then select *Alert Tones* by highlighting it and pressing *Enter*
7.) Highlight the tone you wish to hear and press *Enter*.
8.) When you have completed your warnings' choices use the Menu/Back button to escape to the main menu or the main display

Adrenaline Set-up

The next step is to set up your Adrenaline module. This is where you will set up the following:

Warm Up Mode
High Idle
EGT Adjustment
Fuel PSI Adjustment
Turbo Timer
Correct your tire size
Show your current version information
Unlock your module for Custom Tuning
Be able to restore factory defaults

Warm up Mode

Warm Up Mode is used to protect your engine while it gets to an operating temperature. This setting disables all fueling and timing enhancements until your set temperature is reached. When in Warm Up Mode, the Pulse will display a pop-up display that will read "Warm Up Mode".

1.) Enter the main menu by pressing the *Menu* button.
2.) Select *Warm Up Mode* Setting by highlighting it and pressing *Enter*
3.) Use the *Up* and *Down* Arrow to choose what Engine Coolant Temperature you want the Adrenaline module to start adding power; when you are finished press *Enter*
*Note the Adrenaline will not abruptly add power when your warm up temperature is met. The Adrenaline monitors engine load and many other parameters and will wait until the vehicle is not in a strenuous state before adding power. This eliminates getting extra power added at unexpected times such as in the middle of a gear shift.

High Idle Delay

By setting a High Idle delay you are enabling the High Idle function of the Adrenaline. High Idle will engage and idle your engine up to 1200rpms while you are in PL00 or while in warm up mode after it reaches your desired delay. To deactivate the High Idle you may simply lightly press the accelerator pedal, change your set delay, or turn the power level to higher than PL00 if you are not in warm up mode.

1.) Enter the main menu by pressing the *Menu* button.
2.) Select High Idle Delay by highlighting it and pressing *Enter*
3.) Use the *Up* and *Down* arrows to choose how long the delay will be before High Idle activates, when you are finished press *enter*
*If activated there will be a High Idle icon in the upper right hand portion of the main display showing you that High Idle is enabled. The icon is "HI".

HI

EGT Adjustment and Fuel PSI Adjustment

These adjustments are not meant to be used in normal circumstances. In some cases radio frequency interference noise, alternate sensors, or aftermarket sensors may be used and this adjustment allows for fine tuning the sensor scaling in these applications. Before using these adjustments please contact the Quadzilla Technical Support department.

Turbo Timer

You can set your Turbo Timer to be time based or EGT based but, you cannot set the timer to work off both time and EGT. Setting the Turbo Timer up will allow your truck to run without the key in the ignition to allow your vehicle to properly cool off. This increases the life of many parts on your truck including your turbo charger. To disable or kill the truck once the Turbo Timer has activated, simply press the accelerator pedal lightly.

1.) Enter the main menu by pressing the *Menu* button.
2.) Select *Turbo Timer* by highlighting it and pressing *Enter*
3.) Select either *EGT Setting* or *Timer Setting* by highlighting it and pressing *Enter*
4.) Use the *Up* and *Down* arrow to select the desired EGT your engine must get down to, or the desired time you want the engine to run after you turn the ignition off before the vehicle shuts down, when finished press *Enter*

Once set, the Turbo Timer menu will show you which setting is turned on for future reference.

*If you select an EGT that is lower than the engine can get down to the Adrenaline will automatically shut the vehicle off after 15 minutes of runtime as a safety precaution.
**When selected, a Turbo Timer Icon will be displayed in the upper right hand corner of the main display. For EGT the icon is (thermometer symbol) for Time it is a (clock icon)

Tire Size Adjustment

This feature allows you to show your vehicle's true speed on the Pulse monitor if you have a larger than factory size tire on the truck. There are 2 parameters you can display; if you choose to show the True Vehicle Speed it is important to select "True Speed" in the display setup.

1.) Enter the main menu by pressing the *Menu* button.
2.) Select *Tire Size Adjustment* by highlighting it and pressing *Enter*
3.) Select *Stock Tire Size* by highlighting it and pressing *Enter*
4.) Use the *Up* and *Down* arrow to choose the size tire that came on the truck from the factory. The value is in circumference. Not all trucks come with the same size factory tire so there is no default setting. Press enter when finished.
5.) Select *Current Tire Size* by highlighting it and pressing *Enter*
6.) Use the *Up* and *Down* arrow to choose your current size tire in circumference, press enter when finished

• If you have different size tires it is necessary to set this up if you choose to use the 0-60 or ¼ mile performance test talked about later in this manual. Failure to do so will cause incorrect readings.

Product Version

This selection shows your current Pulse software version and is only needed when talking to technical support or when deciding if you need one of the updates off of the Quadzilla website.

Hot Unlock Code

At the time this manual was written this feature is disabled. This will be used to enable the Custom Tuning features of the Pulse in the near future. Please check our website for updates and details of when this feature will be released.

Restore Defaults

This menu simple lets you reset the entire Pulse to the factory de-faults.

DataLogging

This is where all of your minimum or maximum values are stored.

1.) From the Main Menu Select *Datalogging* by highlighting it and pressing *Enter*
2.) Use the *Up* arrow to see maximum values or the *Down* arrow to see minimum values recorded. You may toggle back and forth from minimum to maximum while in this menu by simply using the *Up* and *Down* arrow keys.
3.) To reset all datalogging press the *Enter* key anytime you are in any of the datalogging screens.

Tuning Settings

Like the Hot Unlock menu, this feature is currently disabled. In the future this menu will allow you to custom tune your fueling and timing enhancements as well as a host of other parameters in real time on the Pulse Control Monitor. In order for this feature to be activated, you will need an unlock code which may be obtain off of the Quadzilla website.

Performance Tests

This menu will allow you to perform 0-60mph and ¼ mile testing. It is important that if you have different sized tires than your vehicle came with from the factory that you set up your Tire Size adjustment as mentioned above. Not adjusting for larger tires will substantially reduce the tests' accuracy.

0-60mph Test -

1.) Select *Performance Tests* from the main menu by highlighting it and pressing *Enter*
2.) Make sure your vehicle is at a complete stop
3.) Select *0-60 Test* by highlighting it and pressing *Enter*
4.) Use the *Up* and *Down* arrows to select your countdown time before the test start.
5.) Press the *Enter* key when you are ready for the countdown to start.

If you fail to move the 0-60 Test will automatically abort after approximately 7 seconds. The test will automatically stop once you have reached 60mph and will be displaying the time it took to reach 60 mph from the time your vehicle started moving.

¼ mile Test -

1.)Select *Performance Tests* from the main menu by highlighting it and pressing *Enter*
2.)Make sure your vehicle is at a complete stop
3.)Select *Quarter Mile Test* by highlighting it and pressing *Enter*
4.)Use the *Up* and *Down* arrows to select your countdown time before the test starts.
5.) Watch for the "tree" to fall, you want to accelerate on the green bulb.

Once complete the ¼ mile test will automatically stop and display your 60' time and mph, ⅛ mile time and mph and your ¼ mile time and fastest speed at the end of the ¼ mile.

If you fail to move the test will abort after 7 seconds.

Turning the sound on/off

From the Main menu scroll to *Turn Sound On/Off* and hit *Enter* once it is highlighted and it will turn the sound for the entire Pulse On or Off.

Adjusting the Backlight

Select *Backlight Adjustment* from the main menu and use the *Up* and *Down* arrows to make the backlight more or less bright. The display will change as you move the settings so that you can visually see how bright the display is. Press *Enter* when done.

Warranty:

All QUADZILLA Performance Modules/Tuners Diesel Performance Enhancement Software- as specified below - is warranted against defective materials or workmanship for one million miles or ten years from date of purchase, whichever comes first. The Performance Modules/Tuners hardware units are covered by a one year unlimited mileage warranty.

WHAT IS WARRANTED:
Any Performance Modules/Tuners Diesel Performance Enhancement Software specified for and Cummins, Powerstroke, and, Duramax diesel engines, except those units sold exclusively for racing and/or off-road use.

WHO IS COVERED BY WARRANTY:
The original purchaser of a Performance Modules/Tuners who has completed the required warranty registration and provided proper proof of the original retail purchase and all other required information.

WHAT IS NOT WARRANTED:
Any Performance Modules/Tuners used for any type of racing or competition, any off-road use, custom or modified applications, any non-legal or industrial applications. (These units are covered by a one year unlimited mileage warranty for both Software and Hardware.)

WHAT VOIDS THE WARRANTY:
Incorrect Installation: The Performance Modules/Tuners must be installed following Quadzilla installation procedure as outlined in the product literature that accompanies the Performance Modules/Tuners. Physical damage to the unit due to improper care in installation or removal will not be covered under this warranty. No Registration: Failure to register your product within 90 days of purchase will void the one year unlimited mileage warranty. No Proof of Purchase: At time of warranty claim, buyer must provide proof of purchase (original receipt or invoice). Incorrect Use: Any damaged, abused or modified Performance Modules/Tuners will not be warranted.

EXTENT OF WARRANTY:
Any defective Performance Modules/Tuners properly returned to QUADZILLA will be replaced or repaired by QUADZILLA. QUADZILLA will not be responsible for any other expenses incurred by the customer under the terms of this warranty, nor shall it be responsible for any damages consequential, special, contingent, or otherwise; or expenses or injury arising directly or indirectly from the use of the Performance Modules/Tuners unit or software. Any Performance Modules/Tuners returned to QUADZILLA must be sent at the customer's expense along with proof of purchase. QUADZILLA reserves the right to determine whether the terms of the warranty, set out above, have been properly complied with. In the event that the terms are not complied with, QUADZILLA shall be under no obligation to honor this warranty.

SHORTAGES AND DAMAGED GOODS:
It is the responsibility of the customer to inspect and count products upon receipt. Any shortages or errors must be reported to Quadzilla immediately. Claims for shortages or damaged goods must be received within 3 days of receipt of the product. All merchandise is inspected before packing. Any damaged goods should be reported to the freight carrier immediately. All packaging of damaged goods must be kept for inspection by the freight carrier.

RETURNS AND EXCHANGES:
An RMA (return merchandise authorization) must accompany all returns and exchanges. Returns must include a copy of the original invoice. Returns and exchanges must be shipped pre-paid or they will be refused.

Returned or exchanged products must be undamaged, or in "like new" condition. Damage occurred during freight due to improper packing is the responsibility of the customer. Unauthorized or refused merchandise are subject to a 10% restocking fee.