INSTRUCTIONS

Xzillaraider 2 Ford 7.3L 1999-2003

(Models: XZ2008, XZ2009, FMPG001)

Xzillaraider II

Thanks for your purchase of a Quadzilla product. We know you'll be more than satisfied with the increased performance our product provides. Be sure to tell your fellow diesel truck owners about Quadzilla.

This is a high performance product and we suggest that you also install Exhaust Gas Temperature (EGT) and boost gauges with all Quadzilla products. This product may alter the technician's ability to use diagnostic equipment

Please remove the Quadzilla product when taking your truck into a service facility.

<u>The Installation of this product indicates the BUYER has read and understands this agreement and the 'Disclaimer of liability' agreement contained at the end of this manual and accepts its terms and conditions.</u>

THIS IS A HIGH PERFORMANCE PRODUCT. USE AT YOUR OWN RISK.
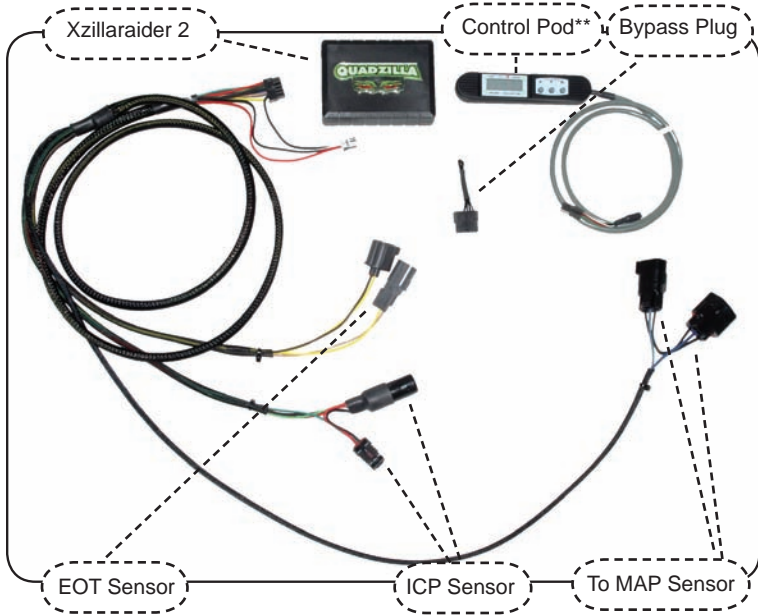Be sure to read the disclaimer before beginning any installations of this product.

Table of Contents:

IMPORTANT: Read the disclaimer completely before installing your Quadzilla product.

Introduction:

Below is a picture of an Xzillraider 2 wiring harness for the Xzillaraider 2 Ford 7.3L 1999-2003 Part# XZ2008, XZ2009, FMPG001

The X2 module alters fuel injection quantity, injection cooled pressure, fuel injection timing, and boost. When Using the X2 module it is highly recommended that you use a pyrometer to monitor exhaust gas temperature.

In all positions the X2 module should deliver power smoothly without ill effects. The truck should behave just like it did when it was stock, with the exception of the increase in power. As you run in the higher levels some black smoke may occur from the tailpipe which is normal, but it should not be overly excessive and will clear up as turbo boost is achieved. As fuel is added to the vehicle exhaust gas temperatures will increase and you should use a pyrometer to monitor exhaust gas temperature. In the higher setting you will notice the pitch of the engine to be slightly different. This is due to the timing increase and its normal as long as it is not excessive. Injection pressure is also increased and can make the engine louder. The higher settings will have a lighter throttle feel to them and may not be as desirable if driving in inclement weather or around town. If use in the higher level is needed you may consider a Monster Air Intake or a 4" exhaust system as well.

In the higher settings a "service engine soon" light may occur under heavy throttle applications. This is due to the increased injection pressure and is normal. The light should go out on its own. This is not harmful to the engine.

Installation:

Supplied Items:

- Installation Instructions
- Harness
- Xzillaraider 2 or M3 module
- ControlPod (XZ2009 Only)**
- Bypass Plug
- Care Kit (alcohol wipe, small zip ties, dual lock, 8" zip ties)
- Warranty Registration Card and pre-paid mailing envelope. (Important)
- Stickers

Required Tools:

- Razor Knife
- Side Cutters / Wire Cutters

Note
At anytime you wish you may upgrade your M3 to an X2 XZT by going to www. quadzillapower.com and filling out the correct Upgrade Form. Once completed you will receive an email with confirmation of your upgrade and a file that can be loaded into you module making it an XZT.

We recommend letting your engine cool prior to installing this product.

INSTALLATION

1.) Turn key off and remove key from the ignition. Always wait at least 30 seconds between turning the key off and disconnecting any sensors on the vehicle.

2.) Pop the hood and locate the Manifold Absolute Pressure Sensor (MAP), Engine Oil Temperature Sensor (EOT), and Injection Control Pressure Sensor (ICP). The MAP sensor is a three wire connector that will be located on the passenger side of the engine close to the firewall. It will be mounted on a bracket next to the A/C lines and the intercooler tube. The EOT sensor is a two wire connector that is located on the back of the High Pressure
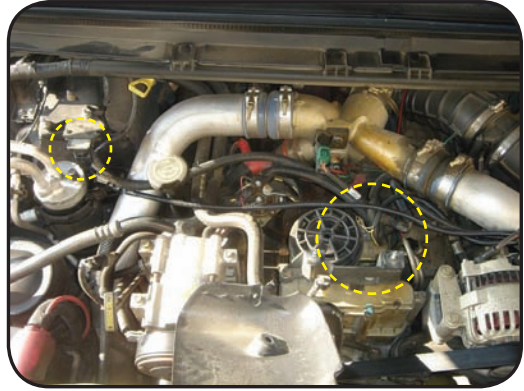

Image 1A

Oil Pump just below and to the back of the plastic Power Stroke cover on the top of the motor. It will set just below two hard lines coming out the back of the High Pressure Oil Pump. The ICP sensor is also located in the same area about two inches behind the EOT; this sensor is a round three wire plug and will be directly on the head of the engine. *(See image 1A)*

3.) Disconnect the factory MAP sensor by sliding the red locking tab down and pressing on the locking tab and pulling down. The locking tab is underneath the

red lock and can only be accessed by sliding the red lock tab down. Some trucks may not have the red lock tab on this particular sensor. Once the plug is removed from the sensor you can now plug the corresponding X2 connector in its place to the sensor. Once it is plugged in connect the factory MAP plug into the X2 harness. Make sure that both connections snap in place firmly, failure to get a good connection at these two connections will result in a check engine light or poor performance from your truck. *(See Image 2A)*

Image 2A

4.) Next locate the EOT sensor and disconnect the plug from the sensor by pressing on the lock and pulling the connector away from the sensor. Once the connector has been removed plug the corresponding plug from the X2 harness in its place and connect the factory EOT plug back into the X2 harness, making sure that both connections lock together firmly. Failure to connect these properly will result in a check engine light and no performance gain from your X2 module. *(See image 3A)*

5.) Disconnect the ICP sensor by gently lifting up on the locking tab and pulling the connector away from the sensor. Insert the matching ICP connector from the X2 harness into the sensor making sure it snaps firmly into place. Then plug the factory connector into the molded connector on the X2 harness and again make sure it snaps into the connector firmly. Failure to have a good connection at

Image 3A

these two plugs will result in a check engine light and poor performance from your truck. Once you have the harness plugged in to all three locations check over each connection again making sure they are all securely fastened together and that none of the excess wire is on any hot or moving parts of the engine. You may use the supplied zip ties to keep the connectors and wires away from any hot or moving parts. *(See Image 3A)*

6.) Next locate the grommet on the drivers side firewall of the engine. *(See image4A)* On some trucks there will be an oval plastic cover snapped in place covering this hole. The harness will need to be routed through this location into the cab. The plastic cover will need to be removed from the inside of the cab so that the two locking tabs are not damaged by pulling on them from the outside. You will need to squeeze both tabs in towards the center of the cover and push out towards the firewall. Once the cover is removed you can now route the12 pin connector at the end of the X2 harness through the firewall and into the cab. Be careful as

Image 4A

to not damage the 12-pin or 4-pin connectors when routing the harness through the firewall. If the harness gets stuck when pulling it through the firewall do not pull on the connectors as this could pull the wires from the connectors and cause the module to not operate properly. On the firewall cover you can either choose to snap it back in place which will leave a small gap in the hole from the harness or you can cut a small notch out of the cover so that it snaps completely back in place. Once the harness is inside the cab go ahead and remove the bypass plug if it has not already been removed and store it in a safe place. After the bypass is removed you can now connect your X2 module to the harness. The module will only plug into the harness one way. Push the module onto the connector until you feel it seat in place or you will hear a light click which means the locking tab is secured to the module. Secure the module up under the dash with the supplied zip ties or Velcro making sure it is clear of all moving parts. The module should be mounted in a location that is easily accessible so that the module can be removed

7

for any updates or upgrades. Once the module is mounted firmly under the dash you can either zip tie the remaining slack from the harness under the dash or pull the slack back out to the engine compartment and secure it firmly there. Be sure if you pull the remaining slack back out to the engine compartment that the harness is away from any hot or moving parts when you secure the remaining slack.

> *(If you are installing the XZ2008 or Max Mileage module then skip the remaining steps, your installation is complete. Check over all connections and wires to insure everything is connected correctly and that all the connectors are securely fastened to each other and enjoy your new found power.)*

10.)   Find a spot to mount the ControlPOD. This can be placed anywhere to your liking as long as there is enough slack on the ControlPOD harness. It can be mounted to the top of the dash or on top of the steering column or mounted to the dash directly; these three locations give easy access and clear visibility of the pod. Using the supplied Velcro mount the ControlPOD to your desired location. The Velcro used is designed to where you can remove the ControlPOD if needed and re-attach it, but the Velcro itself can be difficult to remove. It is best to clean the back of the ControlPOD and mounting location with the supplied alcohol pad to insure that the surface is clean so that the Velcro will stick firmly to the pod and the mounting location.

11.)   Route the ControlPOD harness over to the X2 module and connect the corresponding 4-pin connectors together making sure they lock firmly together. You may also want to zip tie the remaining slack from the harness up under the dash so that it is out of the way from any moving parts.

12.)   Double check the X2 module and the ControlPOD making sure both of them are firmly secured to their desired mounting locations.

13.)   Recheck all connections again and the routing of the wiring harness making sure everything is securely fastened and away from any hot or moving parts.

14.)   Turn the key to the "ON" position. Insure that that the ControlPOD powers up. If the ControlPOD does not power up, check the 4-pin connection that connects the pod and the module together, making sure that the connectors are securely fastened and that none of the pins or wires are loose or damaged. If the ControlPOD is still not powering up after checking the wires and connections you will need to contact Quadzilla Tech Support.

15.)   If the ControlPOD powers up and all functions of the pod are working and functioning properly then start your truck up and enjoy your new found power.

About the ControlPOD: (Not available on the XZ2008 XZT, and FMPG001 modules). The X2 is equipped with a ControlPOD that is capable of reading ICP pressure, Boost pressure, EOT temperature, and a Power Level indicator as well. The button on the far right of the pod controls which display you want to view or switch to. You will notice a small green dot on the pod screen that corresponds to the ControlPOD overlay letting you know which parameter is being viewed. You may change power levels at anytime while the truck is on or while driving by simply pressing the up or down arrow buttons. You can also toggle between the different parameters being displayed while driving as well by pressing the far right button. Each time the power level changes the display will show the new power level before returning to the parameter that is being monitored. You do not have to select to view the power level in order to change the levels..

You may also set warnings for the ICP Pressure, Boost Pressure and Oil Temperature parameters. To do this put the ControlPOD on the parameter before the one you are wanting to set the warning for, press and hold the far right button down for approximately 5 seconds. The display will change to that particular parameter that you want to set, keep the button pressed until the display starts flashing a set number. At this time you can adjust the number up or down by using the up and down arrows and set the warning to your desired temperature or pressure. Once you have the warning at its desired setting press the far right button, this will set the parameter for that particular number. You can set the other parameters as well by following the same steps. Anytime one of your particular warnings is reached or over achieved the ControlPOD will start flashing that set warning letting you know. Once the pressure or temperature drops down below that set amount the ControlPOD will go back to normal operation and back to the parameter you were previously viewing.

Injection Control Pressure
This is the amount of pressure that is being supplied to the injectors. This pressure ranges anywhere from 450psi to 3000psi on a stock truck but has an overall range of 450-4000 psi. Under normal idling conditions the pressure should be between 500-650 psi. With the module installed the ICP pressure will be slightly higher than normal since we are increasing the pressure The Injection pressure should never exceed 4000 psi. A warning may be set for this parameter at your desired pressure. (This parameter must be multiplied by ten to get your exact reading.)

Boost pressure
On the 7.3L Powerstroke Diesel trucks the boost should be around 17-20 psi under a hard acceleration with the module installed but can vary depending on elevation. The max boost you see will vary as well depending on what other modifications are done to the truck. Depending on the modifications you may see an increase as high as 30 psi. But on most applications it will be in the range of 17-24psi.

Oil Temperature

The oil temperature on the ControlPOD has a range from 50-250 degrees. The normal operating range of this parameter will range from 190-220. The X2 module is also equipped with a cold engine protection feature which is based off the Oil Temperature. This feature allows the truck to be up to full operating temperature before the module starts working. The module will not turn on until the oil temperature reaches 150 degrees. When the temperature is below 150 degrees the truck will be in stock form.

Bypass Plug

The X2 modules are equipped with a bypass plug which comes already connected to the harness when you receive the product. This plug must be removed in order to plug the X2 into the harness. This plug allows you to remove the X2 module and operate your truck in stock from without having to remove the entire harness. With the engine and the key off simply disconnect the X2 and plug the bypass in its place. If you are taking the truck into the dealer for any type of work we recommend removing the module and the harness entirely especially if the vehicle is still under warranty so that nothing is damaged by the dealer while they are performing any repairs or maintenance to the vehicle. The X2 modules are designed so that once they are removed they do not leave any codes or traces that anything has been changed on the truck. So once the setup is removed the truck is completely back to stock.

Power Levels

XZ2008 & FMPG001

Both of these modules have one fixed power level and are non-adjustable. The FMPG001 module is not really going to add any extra power to the truck but it may feel a little more responsive on the bottom end. You will see an 8-10% increase in mileage with this module installed

The XZ2008 module will increase the power and mileage, and most cases you will see the same fuel mileage gains as with the FMPG001 and gain a little extra power in the process.

XZ2008

50HP/125ft lbs of torque.

Power Levels XZ2009

PL01 20hp/60ft lbs of torque
PL02 40hp/100ft lbs of torque
PL03 60hp/140ft lbs of torque
PL04 80hp/180ft lbs of torque

Support

Q. Will the module damage my transmission – is it safe?
A. With responsible driving habits and regular transmission maintenance your product should not harm the vehicles transmission. Read through your particular product manual and familiarize yourself with any special notes that pertain to the particular product you purchased regarding transmission upgrade recommendations and/or warnings. Any underlying flaws or defects with your vehicle and its drivetrain have the potential to be made worse with the addition of more horsepower and torque, make sure your vehicle is well maintained and mechanically sound!! Quadzilla is not responsible for any drivetrain failures.

Q. Is it dealership friendly - can the dealership see that the product was there if you were to take it off before?
A. No. If you have removed the module and wiring harness OUT OF THE TRUCK, then the dealer has no way of detecting that a module was there. Leaving the module plugged in, the harness in the engine, or leaving both items in the glove box – behind the seat – or in the floor board will be tell tale signs of having a module. Completely remove all components of the Quadzilla module from the truck before taking it in to the dealership.

Q. Will this module void my factory warranty?
A. By law a dealership cannot just void your factory warranty without proving that the aftermarket part was the cause of the failure. Having said that these decisions are made on an individual basis and opinions will vary by service department. The best answer is to completely remove your module before going in for warranty work even if it is something unrelated to the module, engine or transmission.

Q. I'm trying to update my module but it will not load / gives an error, what do I do?
A. Make sure you have the latest Quadzilla Update software on your computer. Check the USB connection on your module and computer to make sure they are securely connecting. Restart your computer. Make sure you are not plugging in the module to the USB cable until instructed to do so in the computer prompts of the update menu. If problems still persist, read the instructions very carefully in their entirety, some issues that may arise are covered in the online updating instructions. If problem still persist, call the Quadzilla technical department toll-free at 1-888-842-6572.

Q. What warranty do I have on the module?
A. There is a 30 day unconditional money back guarantee with a proof of purchase date. All returns for credit and/or refund should be handled directly with the company you purchased the module through. If you return the postage-paid warranty card that is supplied in your box, your initial 90 day limited warranty will be extended to one (1) full year. At the end of this one year, you will be given the option to extend your warranty for another year at a nominal fee. The software is warranted for the life of the module. If no warranty card is received within 90 days the warranty is up. SEND IN THE REGISTRATION!!

Q. Do I need gauges for my truck?
A. Quadzilla is an advocate of gauge systems even in a stock truck. Is it required for all of our products? No. We recommend if your performance product is adding more than 55-65 hp an EGT gauge should be used.

Q. I have installed my module and started my truck, but I do not feel any difference/power, why?
A. Re-check all of your connections, and compare to your installation manual. Verify that there is not an open circuit anywhere, or improper connection. Make sure that your air and fuel filters are regularly maintained, these are two very important items to keep maintained when increasing the power output of your truck!!!

Support

Q. I have damaged/lost my harness/bypass plug, can I get a new one?
A. User error and neglect to the harness, module, and all other components (ControlPOD, bypass plug, etc) are not covered under the warranty. However, you may purchase replacement parts directly through your authorized Quadzilla dealer.

Q. What does the bypass plug do / Why do I need a bypass plug?
A. Should there be a need for you to remove your module, the Bypass Plug will take its place. This will allow for you to drive your truck without the module in place. Also gives peace of mind if lending your vehicle to others, or the valet guy!

Q. I've sold my truck, what should I do with the module?
A. There are two options if you are outside of your 30 day money back window from your purchase date. You can either contact our technical department to see if it is possible to upgrade your module for a fee if you have changed year models of trucks. Or you may sell your module as an individual. Some of the forums allow classifieds and you can also use eBay. If you are selling your item on eBay, make sure to list that it is "used" so as not to violate our AMP policies set forth for our dealers.

Q. I need to send my module in, where do I send it?
A. It is rare that our technical department requires that a module be sent in for further troubleshooting. If your module needs to be sent to the Quadzilla technical department, you must first receive an RMA (Return Merchandise Authorization) number from an Authorized Quadzilla Technician. A Quadzilla Technician is the only person who can give an authorized return number. Once this number has been acquired, package your module for shipping (further details will be given by the technician) and place the RMA number on the outside of the box. If the return number is not visible on the outside of the box, the Quadzilla Shipping and Receiving department has been notified to deny any package without an RMA number prominently displayed on the outside of the box. Packages should be sent, postage-paid. Any package sent Postage-Collect or COD will be refused – return to sender. . If item is out of its warranty period return shipping must be paid by the customer Quadzilla is not responsible for packages lost in transit and we recommend that you insure your package against damage or loss. Call 888-842-6572 to speak with a technician.

Q. Can my module be stacked with other modules?
A. Contact Quadzilla Performance directly to ask about your specific application.

Q. I want to get the best fuel mileage for my truck, what level do I set the module on?
A. Adjustable modules usually have the best mileage gains in PL01. In some applications it is best to try different settings as they will yield even better results based on your particular application. This module is USB updatable so check the website as there are many different programs available for free. Some of these updates include the Max Mileage tuning in PL01. For non-adjustable modules you may also check the website as we are continually developing software for better fuel economy.

13

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 mile-age 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.

Disclaimer:

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 the terms and conditions.

DISCLAIMER OF LIABILITY

Quadzilla Performance Technologies, Inc. and its 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 LIABILTY 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 sales of 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

Quadzilla Performance Technologies, 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 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 in, 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 Quadzilla Performance Technologies, 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.

Under no circumstances shall the SELLER be liable for any damages or expenses insured by reason of the use of sale of any such equipment.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT: THE BUYER MAY PROMTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION WITH A DATED PROOF OF PURCHASE TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM THE 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.

Toll Free: 1-888-842-6572

www.QuadzillaPower.com