

STEALTH II



STEALTH II TUNER INSTALLATION INSTRUCTIONS

PART NUMBERS: S2TUNER-C, S2TUNER-S, S2TUNER-R, S2TUNER-LBZ, S2TUNERR-LMM, S2TUNER-G

STEALTH II



INTRODUCTION

RELEASE THE BEAST

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.

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 this Quadzilla product when taking your truck into a service facility.

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 document and accept its terms and conditions.



TUNER INSTRUCTIONS

1. Make sure the key is in the off position and all doors are shut. Please also make sure all other equipment is turned off. This includes the radio, lights and A/C.
2. Locate the vehicle's main fuse panel. Using the supplied fuse removal chart for your year and model below, pull the required fuses. This step is crucial for you to safely download and upload to your truck. Pulling the selected fuses will temporarily disable the body computers in your truck from interrupting the download process.

* If the required fuses are not pulled you could suffer ECM damage.

* Note: If you have an aftermarket radio installed you must pull the radio fuse too.

* Note: This step does not apply to the 06-10 Duramax engines.

FUSE REMOVAL - DIESEL

2003 - 2005

6.6L Duramax Diesel
Under Hood Fuse Removal

Fuse Number

TBC IGN

TBC BATT

INFO

RADIO

2001 - 2002

6.6L Duramax Diesel
Interior Fuse Removal

FUSE Number

RDO 1

RAP 2

SEO IGN



FUSE REMOVAL - GAS

1996 - 2000

w/4.3/5.0/5.7/7.4L Vortec Engines
Interior Fuse Removal

Fuse Number

4	171	9
---	-----	---

1999 - 2002 GM C/K

w/4.3/4.8/5.3/6.0/8.1L Engines
Interior Fuse Removal

Fuse Number

1	SEO ING (Special Eq. Options /Ignition)
---	---

16	SEO ACCY (Special Eq. Options /Acc)
----	-------------------------------------

29	RDO 1 (radio)
----	---------------

30	RAP 2 (Relay Power)
----	---------------------

1999 - 2002 GM C/K

w/4.3/4.8/5.3/6.0/8.1L Engines
Under Hood Fuse Removal

Fuse Number

60	TBC (Body Computer)
----	---------------------

2001 - 2002 GM S-10

w/4.3L Engines
Interior Fuse Removal

Fuse Number

6	RDO IGN
---	---------

19	RDO BATT
----	----------

2003 - 2006 GM C/K

w/4.3/4.8/5.3/6.0/8.1L Engines
Interior Fuse Removal

Fuse Number

16	SEO ACCY (Special Eq. Options /Acc)
----	-------------------------------------

17	TBC 2B (Body Computer)
----	------------------------

18	TBC 2C (Body Computer)
----	------------------------

20	TBC ACCY (Body Computer)
----	--------------------------

23	TBC 2A (Body Computer)
----	------------------------



2003 - 2006
w/4.3/5.0/5.7/7.4L Vortec Engines
Under Hood Fuse Removal

Fuse Number

16	TBC BATT (Body Computer)
28	TBC IGN 1 (Body Computer)
50	RADIO
58	INFO

3. Connect the supplied cable to the tuner. Make sure that this connector is fastened securely to the tuner to prevent a loss of connection which can damage the ECM.
4. Locate the ALDL port. This port is located under the dash just below the knee panel next to the parking brake release handle.
5. Once plugged in the tuner will power up and the following screen will appear:



Screen one will display the software version of your tuner which can be helpful in determining if your tuner needs to be updated or for any future updates that we may release. On the second screen, the tuner will display the revision number of your tuning. This is only important when needing technical assistance and is something that you would need to have when calling in to Tech Support. The third screen that appears will show you what tuning is currently installed in your vehicle. When installing the tuner for the first time there will be no stored information on this screen. After the tuner has saved your Stock Information it will list what tune you have installed, what the speed limiter is set to, as well as the year, engine, transmission, tire height and axle ratio of your vehicle.

STEALTH II

- After the third screen appears you will be prompted to turn your key to the "On" position. The key will need to be turned on to all accessories which is the last click just before you would engage the starter.
- Once the key has been turned on the Main Menu screen will appear after a few seconds. Use the Up/Down arrows to move the cursor to the option you desire. Use the Y key to make your selection. Pressing the N key or the center key will back you out of this menu and you will be prompted to turn the key off and remove the tuner from your vehicle.

```
Tune Engine
Current Tuning
Data Scanning
Diag. Options
```

```
Tune Engine/Tran
Current Tuning
Data Scanning
Diag. Options
```

During the downloading process you will see disclaimers appear when you select certain options. Use the Up/Down arrow keys to scroll through the messages and the Y or N key to accept or decline the disclaimer. Selecting the N key will end the downloading process.

TUNING OPTIONS

- Once you select Tune Engine the tuner will check the VIN of your vehicle to determine which model and engine your vehicle has. Once it determines this it will start the process of saving the stock program on your ECM. When the tuner is saving this information be sure that you do not disturb the tuner in any way. There is a counter that you can see to make sure it is functioning properly. This process can take 5-10 minutes to complete. If it takes more than 10 minutes or freezes while counting, please contact Tech Support before removing the tuner. **Unplugging or disturbing the tuner during this process can cause damage to the computer.**
- Once the stock info has been saved and the stock info has been tested the following screen will appear:

```
>Select Tune
  Calibration
  Install Tune
```

```
>Engine Tune
  Trans Tune
  Calibration
  Install Tuning
```



TO TUNE A DIESEL ENGINE:

If the Select Tune option is selected you will enter the tuning menu. This menu will allow you to select the tune you want to install into your vehicle.

1. The LB7, LLY and LBZ trucks have six options of tuning to choose from: stock up to 135hp.
2. If you are installing the LB7 Race Tuner you will have the same six tunes up to 135hp plus four extra tunes up to 215hp.
3. The LMM engine will only have five options of up to 110hp unless you are running the Off Road No DPF tuning which will give you two extra tunes in this menu. It will add a Stock No DPF and a 135hp No DPF setting. **It is not recommended to use over the 70hp tune while towing to keep the EGTs at safe levels.** Use the Up/Down arrows to scroll through and highlight the tune you want to install and press the Y key to make your selection.

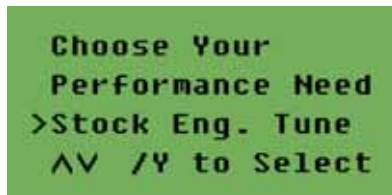
Choose Your
Performance Need
>Stock Eng. Tune
^V /Y to Select

Once you have selected your tune you will be sent back to the Tuning Options menu. Here you may install your selected tune if you wish to make no further changes by scrolling down and pressing the Y key on Install Tune, or you can move to the Calibration menu and press Y to change the speed limiter, tire size and axle ratio.

STEALTH II

TO TUNE A GAS/CAR ENGINE:

If the Engine Tune option is selected, the following screen will appear:



Use the Up/Down arrows to move the cursor to your selection. Once you highlight the selection press the Y button to select it.

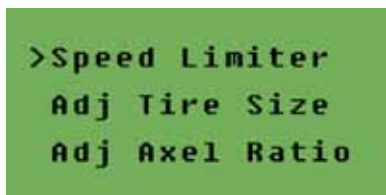
TRANSMISSION TUNER

1. Use the Up/Down buttons to move the cursor to your desired setting and press the Y button to select. (When selecting the Trans Firmness this option is going to allow it to firm up the shifts in the Transmission.) You have three options in this menu: Stock, Tow Performance and High Performance. The stock setting will leave the transmission as it is. The Tow Performance setting is going to firm it up so that there is little slippage when towing. The High Performance setting will set the transmission to the highest firmness that is safe for your transmission. This reduces clutch slippage at high RPM shifts. You can use any of the transmission firmness settings with any of the engine tuning settings.
2. The next option will allow you to select and change the shift points of the transmission. You will also have three options in this menu as well: Stock, Tow Performance and High Performance. Tow Performance helps to hold the transmission in gear longer, preventing it from downshifting as often while towing. High Performance will make the transmission downshift much sooner when heavier throttle is applied. It will also allow the transmission to shift at the highest RPM that is safe for your vehicle. The High Performance setting is very aggressive with its shift points.
3. Once these selections have been completed you will be prompted back to the Tuning Options screen. If you wish to make no other changes to your vehicle you may skip forward to the Install Tuning steps.



CALIBRATION

1. If you select to change the calibration settings on your vehicle just use the Up/Down buttons to highlight this option and press Y to select.



2. **Speed Limiter** - If the speed limiter is selected you will be able to raise the speed limiter in increments of 1 MPH to set it for what top speed you are wanting. Most vehicles will be set to 98mph stock but this can be dependant on the type of vehicle, engine, transmission and axle ratio. Once you have the speed limiter selected at your discretion, press the Y key to set the speed. A disclaimer will pop up once the speed limiter has been changed and you will have to select Y to agree to this disclaimer.
3. **Tire Size Selection** - This option will allow you to select your current tire size and program it in to your vehicles ECM to correct the speedometer for larger than stock tires. Press the Y button on Adj. Tire Size. To get the accurate size of your tires you will need to measure from the ground to the top of the tire in inches and then use the Up/Down buttons to select your tires size. The tire size can be changed in .25" increments up to 44" tires. If you go off the size on the tire it may cause the speedometer to not be accurate so it is important that you measure the tire. Select the tire height by pressing Y. Once the selection is made, press the N key to return to the calibration menu.
4. **Adjusting Axle Ratio** - This option should only be used if you have changed the gear/axle ratio in the vehicle from what it was stock. Use the Up/Down arrows to select the proper ratio and press the Y key to make your selection. The Stealth 2 will determine the axle ratio by checking your VIN. The tuner will always read the correct axle ratio for your vehicle based on the VIN.



INSTALL TUNING

1. Once all your changes have been made, scroll down to Install Tune and press the Y key.
2. When this option is selected a summary of your selections will appear on the screen. Look over the selections and make sure everything is correct with your vehicle and the options you have selected are shown. Press the down arrow to move past this screen.
3. On the next screen you will have the option to install your tuning changes by using the Up/Down arrows and selecting Install Tune with the cursor and pressing the Y key. Once the Y key is pressed the tuner will start the download process to the vehicle.

There are a few different screens that will appear during this process. The last screen that will come up just before the download process will say **"Installing Your Selected Tuning **DO NOT DISTURB**"**, then you will see the numbers and letters start to change on the counter. This process will take 1-5 minutes. **Do not disturb the tuner in any way during this process.**

If the counter does not start within 5 minutes, **DO NOT** disconnect the tuner from the vehicle; contact the Quadzilla Tech Department for further assistance. Disconnecting the tuner during this process can damage your ECM. Once this process has completed, a message with a 15 second count down will appear. Once this has completed, you will be prompted to turn your key off and remove the tuner from your vehicle. If the required fuses were pulled, you must reinstall these fuses before starting the vehicle. Failure to do so will cause the vehicle to not start.

RETURNING TO STOCK

1. There is also an option that allows you to return the truck back to stock. By selecting this option it will remove all the tuning of your Stealth 2 out of the vehicle. This needs to be done anytime you are taking the truck into a service facility for any work. Even if it is for something simple we always recommend returning the vehicle back to stock in case any updates need to be done on your vehicle.



- Remove any fuses as directed in the fuse removal chart for your vehicle. You will need to select "Return to Stock" by pressing the Y button and the tuner will start accessing the stock data. *Do Not Disturb* the tuner during these steps. This process will take 1-3 minutes. Once the vehicle is back to stock you will be prompted to turn the key off and remove the tuner from your vehicle. Reinstall any fuses that were removed at the beginning of this process before starting the vehicle. At this point the vehicle is back to stock.

CURRENT TUNING

The Current Tuning option in the Main Menu will show you what current tune and changes you have installed on the vehicle at that time. You will need to use the Up/Down buttons and press Y to select this option. To exit this option just press the N button which will take you back to the Main Menu.

DATA SCANNING

Select this option from the Main Menu by pressing the Y button. This option can help you diagnose a problem with your vehicle, tune other modifications, or to see what your engine is doing. The vehicle must be running to see these parameters and can also be used while driving to diagnose any problems. This option will display up to 4 parameters at once. Use the Up/Down arrows to scroll through the parameters. The following parameters are available for monitoring:

06 - 10 GM Duramax

Scan Data Can	
Speed MPH	XXX.X
Eng Temp	+XXX.XF
Eng RPM	XXXXX
Air Temp1	+XXX.XF
Air Temp2	+XXX.XF
Throttle	XX.X%
MAF	XXXX.XXGn
Barometric	XXXXKp
MAP	XXXXKp
Fuel Temp	+XXX.XF
Fuel Des	XXXXPsi
Fuel Act	XXXXPsi
Fuel Rate	XX.Xmm
Battery	XX.XV
Inj 1 PV	XX.XMs
Inj 2 PV	XX.XMs
Inj 3 PV	XX.XMs
Inj 4 PV	XX.XMs
Inj 5 PV	XX.XMs
Inj 6 PV	XX.XMs
Inj 7 PV	XX.XMs
Inj 8 PV	XX.XMs
Main Inj	XX.XDg

01 - 05 GM Duramax

Scan Data J-Bus	
Speed MPH	XXX.X
Eng Temp	XXX.XF
Eng RPM	XXXXX
Air Temp	XX.XF
Throttle	XX.X%
MAF	XXX.XXGn
Barometric	XXXXKp
T-Boost	XX.XPsi
Fuel Temp	XXX.XF
Fuel Des	XXXXPsi
Fuel Act	XXXXPsi
Inj 1 PV	XX.XMs
Inj 2 PV	XX.XMs
Inj 3 PV	XX.XMs
Inj 4 PV	XX.XMs
Inj 5 PV	XX.XMs
Inj 6 PV	XX.XMs
Inj 7 PV	XX.XMs
Inj 8 PV	XX.XMs
Main Inj	XX.XDg
Can Ref Miss	XXX
Crank Miss	XXX

98 - 06 GM Gas

Speed MPH	
Speed MPH	XXX.X
Eng Temp	XXX.XF
Eng RPM	XXXXX
Air Temp	XX.XF
Throttle	XX.X%
Cal.Load	XX.X%
MAP	XXXXKp
MAF	XXX.XXGn
Ign IDC	XX.XDg
Ign Retard	XX.XDg
IPW 1	XXX.XMs
IPW 2	XXX.XMs
Sht Fuel 1	XX.X%
Lng Fuel 1	XX.X%
Sht Fuel 2	XX.X%
Lng Fuel 2	XX.X%
Line #71 F 805# #Do Not Change#	
02 Bk1 2	XXXXXnu
02 Bk1 1	XXXXXnu
02 Bk2 1	XXXXXnu
02 Bk2 2	XXXXXnu
CHP Low	XXXXX
CHP High	XXXXX
CHP Retard	



DIAGNOSTIC OPTIONS

Press Y from the Main Menu to select this option:

Get DTC's

This option will allow you to check for any engine Diagnostic Trouble Codes. Press Y to select this option and the tuner will start scanning for Trouble Codes. If no codes are present the tuner will read No DTC's Set. If there are codes present the tuner will display these codes, you can use the Up/Down arrows to scroll through if there is more than one code present. You may also clear the codes by pressing the Y key. Any time the check engine light appears on the dash you can check the codes by selecting this option. You do not have to remove any fuses for this option.

VEHICLE OPS and TUNER OPS

These options allow you to see what operating system your vehicle and tuner are using. These two options are only used by Quadzilla for determining any issues you may have with your tuner when calling Tech Support.

RESET AUTO TRANS (Only available on Duramax)

This option will allow you to reset the Transmission for retraining. Once the tuner is installed your transmission will shift different until it relearns to shift for the added power and torque. Usually within 100 miles it will go back to shifting normal. If you are encountering any shifting issues and the transmission does not seem to be relearning you can reset for retraining. This option is not recommended unless you are having issues with the shifting.

Back To Stock

This option is an added safety feature of the Stealth 2. We do not recommend returning your vehicle back to stock with this option unless you are having an issue with the vehicle not starting. If the Stealth 2 ever has an issue and locks up or you receive an error message during the tuning process, or the tuner gets unplugged during the install process the ECM will be temporarily locked out which will cause the vehicle to not start if this happens. You can go into this option and select to return the vehicle back to stock. This option will not check the VIN, it will unlock the PCM and force the Stock Tune back into your ECM which will allow your vehicle to start and run properly. If you do encounter an issue with the tuner or receive an error message you need to contact Tech Support for help with the issue and have the error message or error code written down to give the technician.



OTHER OPTIONS

UNLOCK TUNING

Currently this option is not in use. This option will allow us to add any extra features or tuning options in the future.

DPF REGENERATION

This option is only available for the 07.5-2010 LMM trucks. This option will allow you to manually regenerate the truck to clean the DPF system out while the truck is idling. The truck must have a tune installed in it for this option to work. Once this option is selected you will be prompted to start your vehicle. The emergency brake must be set and the truck needs to be in park or neutral. Press the Y key to continue after vehicle is started and the truck will immediately idle up to around 2000 RPMs and the regeneration process will start. There will be a menu that appears on the tuner showing all the DPF settings during the process. This process can take up to 20 minutes depending on how full the DPF filter is. Be sure that the truck is in an open area when this process is being performed. The process can be stopped at any time by pressing the brake which will bring the idle back down to normal and pressing the N key on the tuner. Once the DPF process has completed the truck will idle down to normal RPMs.

USB UPDATES

The Stealth 2 Tuner is also USB updateable and we do have software updates available on our website for free. You can check the website from time to time to see if there have been any new updates released for your tuner. You may check the current version of your tuner by plugging it in to your vehicle and the first screen will appear with the Software version info. To access the USB Port on your Stealth 2 you must remove the four screws and pull the back cover off. The Stealth 2 is not supplied with a USB cable but it uses a common Printer Style USB cable. Update instructions are available on our website. If you are intending to use the Stealth 2 with our Off Road No DPF tuning, you must update the tuner with this software from our website before installing it on your vehicle. This is a free update.

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.

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

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 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 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 incurred 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 PROMPTLY 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.



QUADZILLA
PERFORMANCE

6032 JACKSBORO HWY, STE 100

FORT WORTH, TX 76135

TOLL FREE 1-888-842-6572

WWW.QUADZILLAPOWER.COM