



Granatelli Motor Sports, Inc. • 1000 Yarnell Place • Oxnard, CA 93033-2454  
805-486-6644 (Phone) • 805-486-6684 (Fax) • Hours: M-F 8AM-5PM (PST)  
[www.GranatelliMotorSports.com/techsupport.htm](http://www.GranatelliMotorSports.com/techsupport.htm) TechSupport@GranatelliMotorSports.com

### **Granatelli Big G Flash Tool Part Numbers 990217 & 990317 Installation Instructions (Read Carefully Before Starting Project)**

- 1.) Make sure the key is in the off position and the radio is turned off.
- 2.) Locate the trucks main fuse panel. (Usually under hood on driver side)
- 3.) Using the supplied fuse removal chart for your year, make and model car or truck, pull the required fuses. This step is crucial for you to safely download to your program. Pulling the selected fuses will temporarily disable some computers in your vehicle from interrupting the downloading process. If the fuses are not pulled you could suffer ECM damage.
- 4.) Connect the Supplied cable to the tuner. Make sure it has a good connection.
- 5.) Locate the ALDL port on the driver's side of the cab. The ALDL port is located under the dash above the parking brake.
- 6.) Plug the corresponding end of the Big G Tuner cable into the ALDL port.
- 7.) Turn the key to the on position, but do not start the vehicle. The key must be completely on, but not started.
- 8.) The following screens will appear.

|                           |           |
|---------------------------|-----------|
| Gas<br>98-05 V. 1<br>Date | Screen #1 |
|---------------------------|-----------|

|                      |           |
|----------------------|-----------|
| Manufacturer<br>Info | Screen #2 |
|----------------------|-----------|

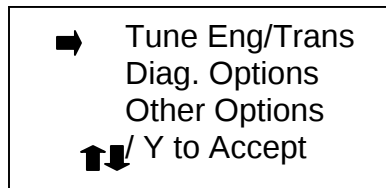
|                                          |           |
|------------------------------------------|-----------|
| Tuning Setting<br>Year – Truck<br>Engine | Screen #3 |
|------------------------------------------|-----------|

|                                                                |           |
|----------------------------------------------------------------|-----------|
| Turn key to the<br>on position. Do<br>not start your<br>truck. | Screen #4 |
|----------------------------------------------------------------|-----------|

Take note on screen #1 of the version number of your programmer. This can be helpful if you ever need an update or a new flash comes available. On screen #2 you will see the Revision #. This info is only important if you need support or want an upgrade.

9.) The next screen (#3) shows what tuning your engine has installed as well as the year, engine, transmission, tire height and axle ratio of your vehicle. It is important to make sure the information shown on the screen is correct for your vehicle.

10.) The following screen allows you to select tuning options, diagnostic options, and other options.

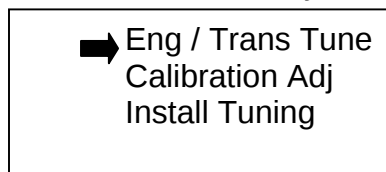


11.) Use the Up/Down arrow keys to move the selection cursor to the option you desire. Use the Y key to make your selection. If you choose to make no further selections you can press the N key. During the downloading process you will see disclaimers appear when you select certain options. Use the Up/Down arrow key to scroll through the message and the Y or N key to accept or decline the disclaimer. Selecting the N key will end the downloading process.

## Tuning Options

1.) Once you select tuning options the tuner will determine which model Vehicle you have. Once it determines your vehicle it will save your stock programming. **DO NOT DISTURB THE TUNER DURING THIS STEP.** There is a counter you can watch to make sure it is functioning properly. This step can take from 3-10 minutes depending on the vehicle.

2.) Once stock is saved you will have the options:



Eng/Trans Tuning selected: The following screen will appear:  
Use your Up/Down arrow keys to move the cursor over your selection. Use your Y key to make the selection once it is highlighted.

|                                                                       |
|-----------------------------------------------------------------------|
| Choose Your<br>Performance Need<br>↑↓ Stock Eng. Tune<br>/Y to Accept |
| Choose Your<br>Performance Need<br>↑↓ Tow Performance<br>/Y to Accept |
| Choose Your<br>Performance Need<br>↑↓ Hi Performance<br>/Y to Accept  |

b.) Tow Performance is for low octane fuel as well as for towing loads.

High Performance tuning is for 93 octane or higher and is for racing  
Use the Up/Down arrow keys to scroll through the options and use the Y key to make your selection

c.) Next you will have the option to enhance the transmission shifting firmness.

|                                                                  |
|------------------------------------------------------------------|
| Enhance Trans<br>Firmness<br>↑↓ Stock No Change<br>/ Y to Accept |
| Enhance Trans<br>Firmness<br>↑↓ Tow Performance<br>/ Y to Accept |
| Enhance Trans<br>Firmness<br>↑↓ Hi Performance<br>/ Y to Accept  |

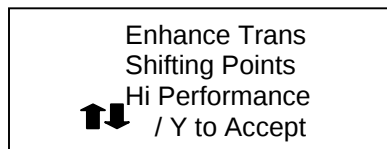
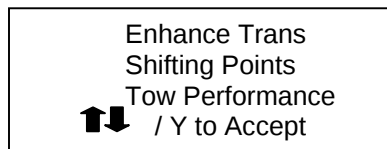
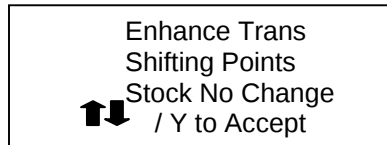
Tow Performance will firm the shifts so there is little slippage when towing a load.

High Performance will set the transmission to the highest firmness that is safe for you transmission. This reduces clutch slippage at high rpm shifts.

You may also leave your transmission with the stock settings. The truck will still likely shift very slightly firmer than stock with the added power.

You can use any of the transmission firmness settings with any of the engine tuning settings.

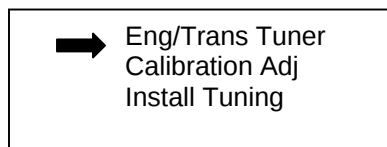
d.) Now you have the opportunity to select the transmission shift points.



Tow Performance helps to hold the vehicle in gear longer so that you will have less downshifting when pulling a load.

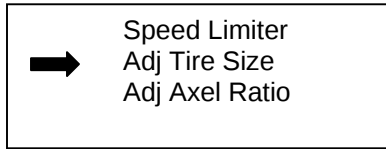
High Performance will make the transmission downshift much sooner when throttle is applied. It also lets the vehicle shift at the highest rpm that is safe for your vehicle. The High Performance setting is very aggressive with its shift points.

Once these selections are complete you will be sent back to the Tuning Options screen. Here you may Install your selected tuning now or move to the Calibration section to alter the top speed limiter, tire size, and axle ratio.

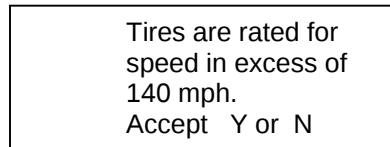
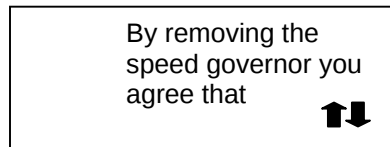


## Calibration

- a.) If Calibration is selected the following screen will appear.  
Use the Up/Down arrow keys to move the cursor over your selection. Use the Y key to make your selection once it is highlighted.



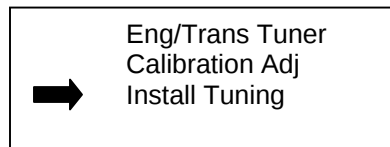
- b.) If Speed limiter is selected you will be asked if you want to remove the top speed limiter from you vehicle. Your vehicles top speed will be dependant on the type of vehicle, engine, transmission, axle ratio, and tire size. Use the Y key to make your selection.



- c.) If Adj. Tire Size is selected you will be asked to enter your tire size in .25" increments. Use the Up/Down arrow to put in your tire size and the Y key to save it.
- d.) If Adj Axle Ratio is selected use your Up/Down arrow key to select the proper axle ratio for your vehicle.

Once your selections have been made you will be taken back to the Tuning Options page or select N.

## Install Tuning



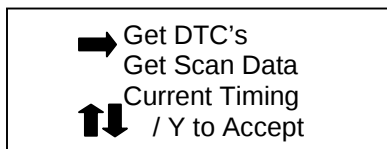
- a.) When Install Tuning is selected you will see a summary of your selections.
- b.) Select Install Tune to start the download into your truck. Follow the on screen instructions. This process takes between 1-5 minutes

depending on your vehicle. **DO NOT DISTURB THE TUNER AT ANY TIME DURING THE DOWNLOAD.**

- c.) You may also return your vehicle back to stock by selecting Return to Stock and pressing the Y key.
- d.) Follow the tuner instructions for removing the tuner and starting the engine.

## Diagnostic Options

If you select Diagnostic Options the Following screen will appear:



### Get DTC's:

Select Get DTC's to check for engine diagnostics codes or to clear a code in your vehicle. Once this is selected follow the on screen instructions.

### Data Scanning:

Select this option to help diagnose trouble with your vehicle, tune other modifications, or to see what your engine is doing. Once this option is selected you will be able to display up to 4 parameters at once. Use the Up/Down arrow to scroll through the parameters. The following parameters are available for monitoring:

Throttle XX.X%  
Cal. Load XX.X%  
MAP XXXKp  
MAF XXX.XXGm  
Ign TDC XX.XDg  
Ign RetardXX.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%  
O2 Bk1 1 XXXXXmv  
O2 Bk1 2 XXXXXmv  
O2 Bk2 1 XXXXXmv  
O2 Bk2 2 XXXXXmv  
CMP Low XXXXX '01 & Up Only  
CMP High XXXXX '01 & Up Only

Select Current Tuning to see what options are currently installed in your vehicle.

**LIMITED WARRANTY:**

Granatelli Motor Sports warrants that all products shall be free from defects in materials and/or workmanship for ninety days from the date of purchase (except in-tank and in-line fuel pumps purchased at dealer or wd prices as these items have no warranty and roller rocker arms which have a 12-month limited warranty). The following requirements and exclusions apply: (1) You must be the original purchaser and must complete the warranty registration form (located at [www.GranatelliMotorSports.com/warranty.asp](http://www.GranatelliMotorSports.com/warranty.asp)) and return the defective product within 10 days after the expiration of the product warranty. Failure to do so voids all warranty, either express or implied set forth herein. (2) You must reside in the United States or Canada and use the product as described in the warranty registration. (3) The product must not have been altered, disassembled, modified, or converted for any other use than intended by Granatelli Motor Sports. (4) The product, or any part thereof, is not used in accordance with the operating parameters specified by Granatelli Motor Sports. (5) The product or any part thereof is damaged or rendered unserviceable due to negligence, vandalism, theft, fire, debris, flood, Act of God, or other peril, malfunction of equipment, or by any cause within the Customer's control. (6) The serial number (if applicable) must not have been altered or removed. The extent of Granatelli Motor Sports' liability under this warranty shall be limited to the prompt correction or replacement, at Granatelli Motor Sports' option and at no cost to the customer other than return shipment, of any defective part of the product determined to be necessary by Granatelli Motor Sports. This only applies if written Granatelli Motor Sports received notice of the claimed defect prior to expiration of the warranty period. All warranties of merchantability and fitness for a particular purpose are expressly excluded. The duration of any and all implied warranties is limited to the duration of this express warranty. All incidental and consequential damages including but not limited to loss profits even if it has been advised of the possibility of such damages are hereby excluded. Regardless of the form of the claim, Granatelli Motor Sports liability for any damages to the customer for such product is limited to the guidelines herein. This stated, expressed warranty is in lieu of all liabilities or obligations of Granatelli Motor Sports for damages arising out of or in connection with delivery, use or performance of the product. This warranty cannot be amended or changed by any Granatelli Motor Sports representative, employee, or agent and any promises inconsistent with this warranty are void and unenforceable against Granatelli Motor Sports. Some states do not allow limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state. Your sole remedy for the above warranties is the repair or replacement of the defective product only, at Granatelli Motor Sports' sole discretion.

**RETURN POLICY:**

Before you return a product for a warranty claim, contact our service department M-F 8AM-5PM (PST) at 805-486-6644 or [techsupport@GranatelliMotorSports.com](mailto:techsupport@GranatelliMotorSports.com) for an RGA number. No returns are accepted without a pre-approved RGA (return goods authorization). No returns on special orders, electrical items or after 90 days from date of original shipment. All returns must be safety packaged in original packaging (if available) and clearly marked with your RGA number on the top and two sides of the box. Please insure your shipment for full replacement value as lost, stolen or items damaged in shipment are not covered by our limited warranty. We recommend using FedEx ([www.FedEx.com](http://www.FedEx.com)) or UPS ([www.UPS.com](http://www.UPS.com)) for shipping. Lost, stolen or damaged items claims must be made by the customer and resolved by the freight company and not Granatelli Motor Sports. All returns may be subject to a restocking fee of up to 25%. The balance will be returned in the form of a company check or may be applied as credit towards another purchase.

**PERFORMANCE CONSUMER'S BILL OF RIGHTS:**

Legally, a vehicle manufacturer cannot void the warranty on a vehicle due to an aftermarket part unless they can prove that the aftermarket part caused or contributed to the failure in the vehicle (per the Magnuson Moss Warranty Act, [www.GranatelliMotorSports.com/magnusonmoss.htm](http://www.GranatelliMotorSports.com/magnusonmoss.htm) (15 U.S.C. 2302(C))). For best results, consider working with performance-oriented dealerships with a proven history of working with customers. If your vehicle manufacturer fails to honor emission/warranty claims, contact EPA at (202) 260-2080 or [www.epa.gov](http://www.epa.gov). If federal warranty protection is denied, contact the FTC at (202) 326-3128 or [www.ftc.gov](http://www.ftc.gov). For additional information, check out [www.GranatelliMotorSports.com/TechSupport.htm](http://www.GranatelliMotorSports.com/TechSupport.htm).

**Disclaimer:**

Actual products may vary from photographs shown. For latest information, please call 805-486-6644 first. You can also check out our web site at [www.GranatelliMotorSports.com](http://www.GranatelliMotorSports.com). However, it may have not been updated at the time you actually view it. Therefore, we cannot guarantee the accuracy of the information on our web site. Granatelli Motor Sports is not responsible for any unintentional omissions or typographical errors and reserves the right to make changes to packages, services, operating procedures, colors, materials, features, specifications, part numbers, pricing and to discontinue any products and/or components at any time without prior notice. Some items shown are sold for off-road use only and/or racing use (not street legal) and not intended for use on public highways, customer assumes costs and liability for installation and use. Performance figures shown can vary considerably due to a variety of factors including but not limited to altitude, humidity, barometric pressure, outside temperature, vehicle age, state of vehicle tune, vehicle manufacturer engine tolerances, vehicle modifications, chassis and engine dyno calibration, chassis and engine dyno brand, etc.

# Tuner Fuse Removal

## GAS TUNER

## DIESEL TUNER

Engine

1996-2000 w/4.3/5.0/5.7/7.4L Vortec Engines  
Interior Fuse Removal

Fuse Number

|   |    |    |
|---|----|----|
| 4 | 17 | 19 |
|---|----|----|

Engine

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/Accessories) |
| 29 | RDO1 (Radio)                               |
| 30 | RAP2 (Relay Power)                         |
| 60 | TBC (Body Computer)                        |

Engine

1999-2002 GM C/K w/4.3/4.8/5.3/6.0/8.1L Engines  
Under Hood Removal

Engine

2003-2005 GM C/K w/4.8/5.3/6.0/8.1L  
Interior Fuse Removal

Fuse Number

|    |                                            |
|----|--------------------------------------------|
| 16 | SEO ACCY (Special Eq. Options/Accessories) |
| 17 | TBC 2B (Body Computer)                     |
| 18 | TBC 2C (Body Computer)                     |
| 20 | TBC ACCY (Body Computer)                   |
| 23 | TBC 2A (Body Computer)                     |
| 16 | TBC BATT (Body Computer)                   |
| 28 | TBC IGN1 (Body Computer)                   |
| 50 | Radio)                                     |
| 58 | INFO)                                      |

Engine

1999-2002 GM C/K w/4.3/4.8/5.3/6.0/8.1L Engines  
Under Hood Removal

Engine

2001-2002 GM S-10 w/4.3L Engines  
Interior Fuse Removal

Fuse Number

|    |          |
|----|----------|
| 6  | RDO IGN  |
| 19 | RDO BATT |

Engine

01-05 6.6L Duramax Diesel  
Under Hood Fuse Removal

Fuse

|          |
|----------|
| TBC IGN  |
| TBC BATT |
| INFO     |
| RADIO    |