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## End User License Agreement, Warranty and Disclaimer

**THIS END USER LICENSE AGREEMENT** (the "Agreement") is an agreement between you, as the purchaser (the "Purchaser") of either the Diablo Module (the "Module") or the ToolRama hand-held computer unit (the "Unit"), and ProgRama Tools, Inc., DiabloSport, LLC or ToolRama, LLC (collectively, "ToolRama"), as the manufacturer of the Product. The Product and the Unit shall be referred to collectively herein as the "Product."

**1. Acknowledgment And Acceptance Of Agreement.** If you do not agree to the terms and conditions of this Agreement, do not use the Product. Instead, promptly contact the distributor from which you purchased the Product in writing, requesting a refund of the purchase price. Any use of the Product by you will constitute your agreement to the terms and conditions contained herein.

**2. Grant Of License.** The parties hereto acknowledge that ToolRama is granting a non-transferable restricted license to Purchaser to use the Product for the sole purpose of installation in Purchaser's vehicle. ToolRama shall retain all title, ownership rights and intellectual property rights in and to the Product. Purchaser agrees that Purchaser shall not, directly or indirectly, modify, translate, reverse engineer, decompile, disassemble, or create derivative works based on the Product. Purchaser further agrees not to permit any third parties to modify, translate, reverse engineer, decompile, disassemble, or create derivative works based on the Product. **3. Disclaimer.** The Product is being sold with no warranties of any kind, express or implied. The Product is not endorsed by the manufacturer of your vehicle and there is no affiliation between ToolRama and the manufacturer of your vehicle. Installation of the Product in your vehicle or use of the Product with your vehicle may limit or void your rights under any warranty provided by the manufacturer of your vehicle, and ToolRama assumes no responsibility in such event. Any warranty not provided herein, and any remedy which, but for this provision, might arise by implication or operation of law, is hereby excluded and disclaimed. The implied warranties of merchantability and of fitness for any particular purpose herein are expressly disclaimed. **4. No Liability For Damages, Injuries Or Incidental, Special Or Consequential Damages.** Under no circumstances shall ToolRama, Inc., DiabloSport, LLC or ToolRama, LLC, or any other party related to ToolRama, be liable to Purchaser or any other person for any damage to Purchaser's vehicle, loss of use of Purchaser's vehicle, or for personal injuries suffered by any person, or for any incidental, special or consequential damages, whether arising out of negligence, breach of warranty, breach of contract, or otherwise. ToolRama's liability for any damages, loss and/or claims associated with the Product shall be limited to the price of the Product paid by purchaser. Purchaser hereby releases ToolRama from all liability, claims and

damages associated with the Products, with the sole exception of ToolRama's liability for the refund of the purchase price of the Product to Purchaser in the event that a court of competent jurisdiction determines the Purchaser suffered damages directly resulting from the malfunction of the Product. **5. Warranty.** Notwithstanding the provisions of the End User License Agreement, DiabloSport warrants the Product to be free from all defects in material and workmanship for the life of the Product. This limited warranty applies only to the original Purchaser of the Product. This limited warranty does not cover damage caused by modification, alteration, repair or service of the Product by anyone other than DiabloSport, physical abuse, misuse, use in a manner contrary to the instructions, which accompany the Product, or any damage caused by acts of God. Contacting your Distributor or Dealer may make claims for repair service or replacement of the Product pursuant to this limited warranty. The Chip will either be repaired or replaced, at the option of DiabloSport, at no cost to Purchaser, if the defective Product is covered by this limited warranty. DiabloSport's liability pursuant to this limited warranty and for any damages, loss and/or claims associated with the Product shall be limited to the price of the Product paid by Purchaser, or, at DiabloSport's option, repair or replacement of the Product. **6. State Law.** Some states do not allow limitations of implied warranties, or the exclusion or limitation of incidental, special or consequential damages, so the above limitations may not apply to you. In such states, liability shall be limited to the greatest extent permitted by applicable law. **7. Governing Law & Venue.** This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, and venue for any legal proceeding or action at law arising out of or construing this Agreement shall lie in the state or federal courts of Orange County, Florida, and the parties specifically waive any other venue.

**DISCLAIMER** Not legal for sale or use on any pollution controlled motor vehicles. Legal in California *only* for racing vehicles which may *never* be used upon a highway.





***DiabloSport, LLC.***

***Predator Satisfaction Guarantee/  
Return Policy***

All DiabloSport products have a guarantee of satisfaction. If in the first 15 days from date of purchase, you are not satisfied with the results the Predator generates in your vehicle, simply restore the factory tune to your vehicle and return the Predator to the selling dealer, and pending examination of the tool by DiabloSport, you will receive a refund from your selling dealer. Under no circumstances will DiabloSport accept the return of a Predator unit that has a factory tune remaining in it.

**DiabloSport, LLC.  
Predator Re-Flash  
Policy**

The Predator will marry to the vehicle upon upload of the factory tune and cannot be re-flashed, for any reason, back to a blank tool. This marrying of the Vin # to the tool is what makes it possible for us to allow the vehicle to be re-flashed by GM, and still be re-programmed again by the Predator. Re-flashing of the Predator is not possible without the complete disassembly, replacement and reprogramming of critical components of the Predator tool.

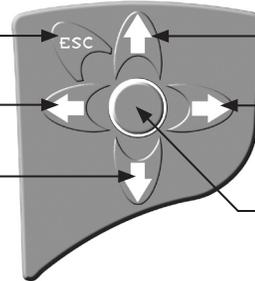
## Display and Keypad description



**ESC Key:** Scroll page back to previous page.

**Arrow left:** Scroll menu to the left.

**Arrow down:** Scroll down the menu.



**Arrow up:** Scroll up the menu.

**Arrow right:** Scroll menu right.  
(Use this key to view entire descriptions)

**Enter Key:** Select parameter highlighted in menu.

## Before Installing DiabloSport Performance Tune

*Please read through the manual before installing tune in your vehicle, failure to follow proper instructions can result in a damaged or disabled PCM (Powertrain Control Module).*

*User **MUST** ensure that the factory "stock" tune is in the vehicle's PCM before installing the DiabloSport tune. GM dealer re-flashes are the same as stock factory tune.*

*Serious engine damage can occur if the Predator tune is installed over a **non-factory/aftermarket performance tune**.*

**Very Important!**

*Do not perform any operations on Predator (expect live data diagnostics) while vehicle is running. The vehicle must be parked and engine OFF.*



## Preparing Vehicle for DiabloSport Performance Tune Installation

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The vehicle **MUST** be running on 91-93 octane Super Un-Leaded/Premium grade fuel before installing DiabloSport Performance tune. Amoco or Mobil Super Un-Leaded/Premium grade fuels are highly recommended.

- Apply parking brake to de-activate daytime running lights.
- Always have all the doors closed while installing the DiabloSport Performance tune, and remain closed until the process is complete.
- Do not activate any electrical accessories while installing the DiabloSport Performance tune. Ensure that there are no electronic devices wired or plugged into the vehicle that can cause a substantial voltage drop when activated during installation of the DiabloSport Performance tune. Please contact DiabloSport dealer if uncertain about devices that are on your vehicle.
- Certain cellular phones or radio equipment might also cause interference, please remove or turn such devices off.
- Do not try to install tune on a vehicle with a low battery voltage, charge your battery if necessary.
- Never turn the key "OFF" while Predator is plugged in diagnostic port unless instructed.
- Do not touch the cable while the Predator is installing the DiabloSport performance tune.

## *Important note regarding DiabloSport Performance Tune Parameter modification*

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This feature is designed for users with extended knowledge of automotive tuning. Modifying fuel and spark parameters increases risk of detonation/pinging and can increase risk to the durability of the vehicle.

These parameters, as well as others in the Predator, should only be modified by an experienced tuner and should not be modified unless necessary.

DiabloSport will not be held responsible for vehicles with modified parameters since we are not present to monitor the adjusted parameters; therefore we recommend that this should be left untouched by inexperienced users.

## *OBD-II Diagnostic port locations*

### *99-03 Vette*

Driver side underneath dash in the center, facing floor.



### *99-02 Firebird/Camaro*

Driver side underneath dash, right hand side facing driver.



## *OBD-II Diagnostic port locations*

*99-02 Chevrolet/GMC 1500/2500/3500 trucks  
Chevrolet Tahoe / Avalanche / GMC Yukon / Denali  
Cadillac Escalade / Escalade EXT*

Driver side underneath dash,  
left hand side above  
parking brake.



## *Vehicles equipped with the GM OnStar system*

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*Due to fact that the GM OnStar system sends transmissions periodically to the vehicle we suggest that the system should temporarily be disabled during the installation and modification process.*

If the OnStar system is not disabled during install and modification and the system should receive a transmission in the middle of tune install or backup, the tool will be interrupted and the process will have to be started over again.

To avoid this problem it is recommended that the system is disabled during tune install, backup and modification.

To disable the OnStar system, please refer to your owners' manual and locate the fuse(s) associated with OnStar. The OnStar system is disabled when the OnStar light is turned off.

On some vehicles it is necessary to remove more than one fuse; this will be indicated by the OnStar light still on after removal of fuse in the engine compartment fuse panel.

## Vehicles equipped with the GM OnStar system - Step 1

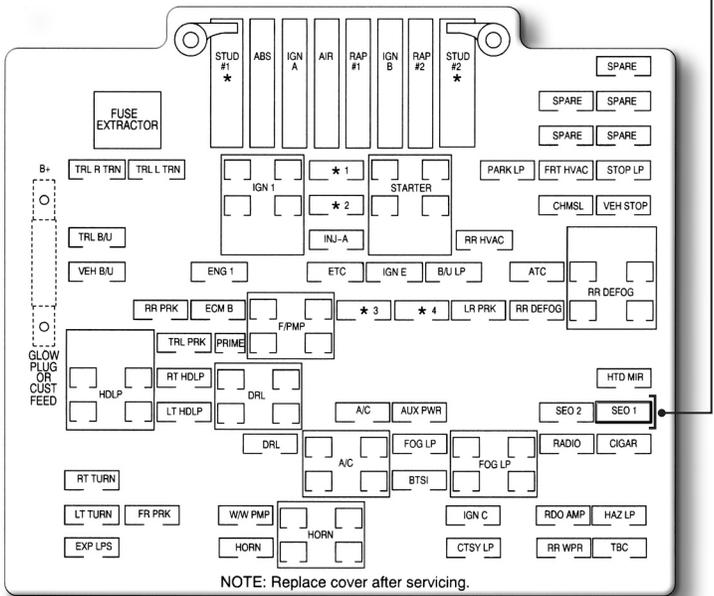
### Turn ignition OFF!

Locate the fuse panel in the engine compartment behind battery on the driver's side.

Carefully remove cover and locate the SEO 1 fuse (Special Equipment Option Power).

Location may vary from illustration, consult your user manual.

Carefully remove the fuse with the ignition OFF.



## Vehicles equipped with the GM OnStar system - Step 2 - 3



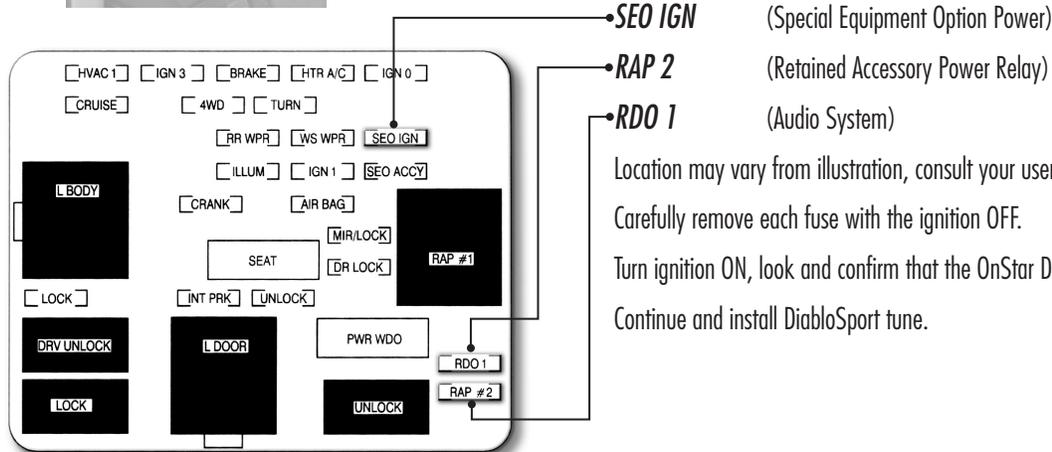
Turn ignition ON, look and confirm that the OnStar Dash light is turned OFF.

If the light is still ON continue with step 3, if it is OFF continue and install DiabloSport tune.

### Step 3

#### Turn ignition OFF!

Locate the fuse panel located on the driver's side dashboard, carefully remove cover and locate the following fuses:



Location may vary from illustration, consult your user manual.

Carefully remove each fuse with the ignition OFF.

Turn ignition ON, look and confirm that the OnStar Dash light is turned OFF.

Continue and install DiabloSport tune.

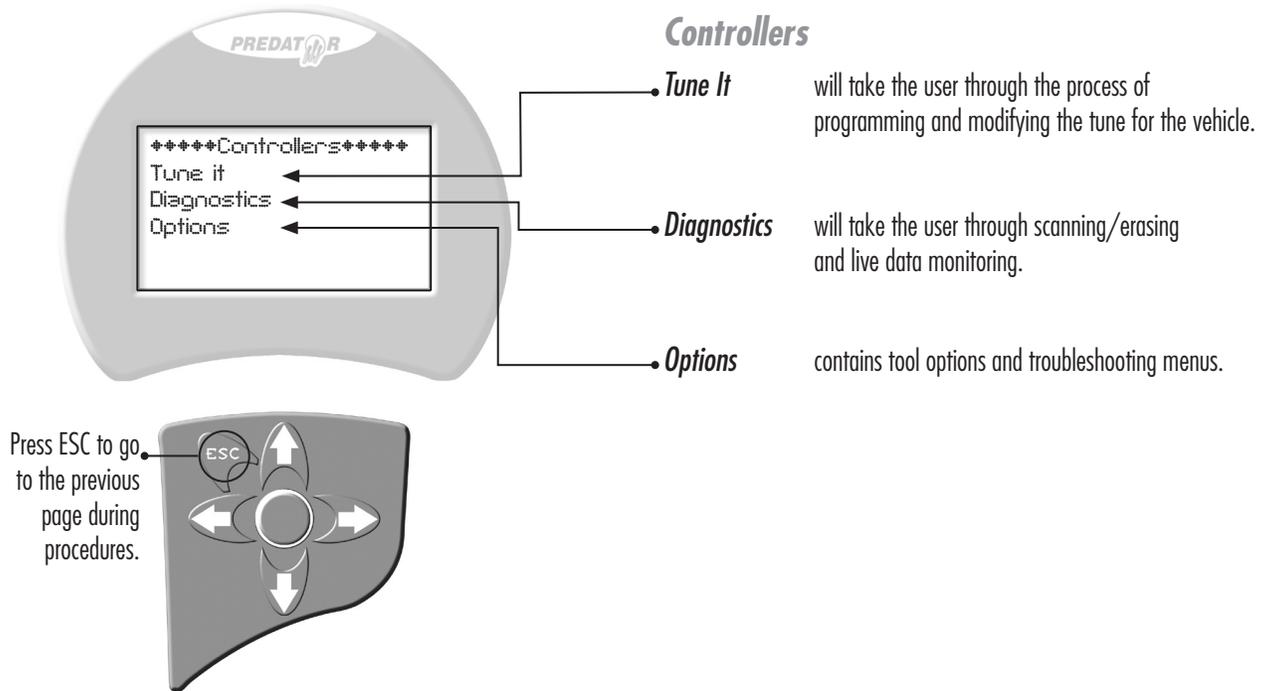
## *Vehicles equipped with the GM OnStar system - Step 4*

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Once completed reinstall the fuses with the ignition OFF.

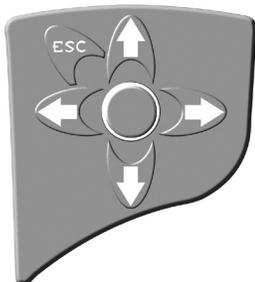
## Installing a tune into a vehicle

- Locate OBD-II diagnostic port on your vehicle. (see reference picture in Section “viii” and “ix”)
- Connect Predator into vehicle’s diagnostic port and turn ignition to on position (**DO NOT** start the engine); the following screen will be displayed:

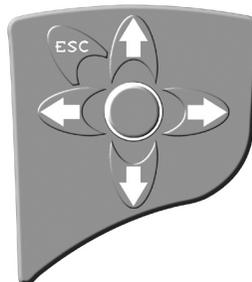


## Installing a tune into a vehicle

Select "Tune It", read and follow the instructions and disclaimers:

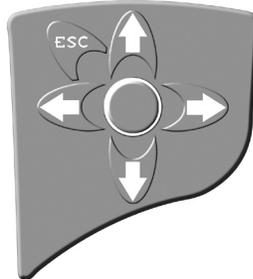


Continue by pressing any key

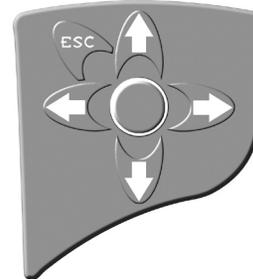


## Installing a tune into a vehicle

Continue by pressing any key



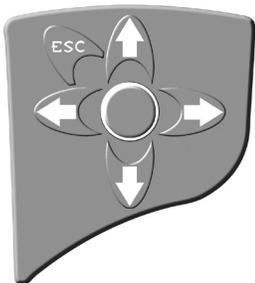
Continue by pressing any key



## Installing a tune into a vehicle

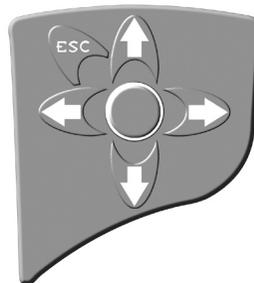
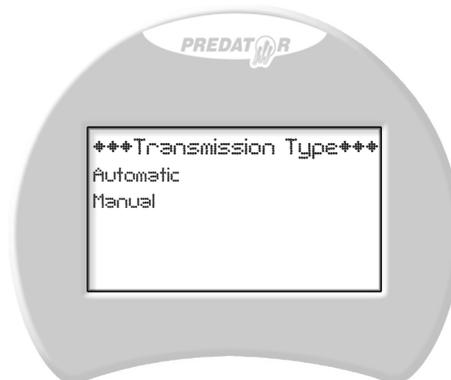
Press "Enter" to continue.

Press "Esc" to return to main menu.



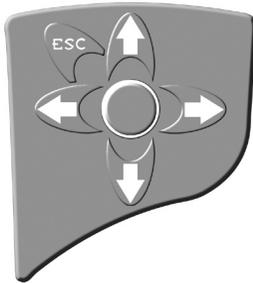
Select the type of Transmission for your vehicle.

Press "Enter" key.

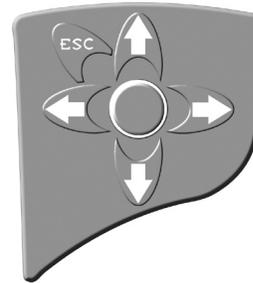
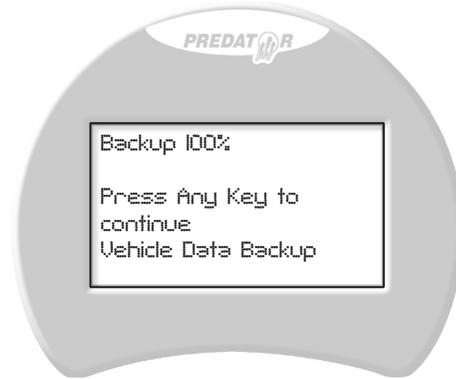


## Installing a tune into a vehicle

The tool will automatically back up the factory/stock tune. Please wait until completed. This may take several minutes.

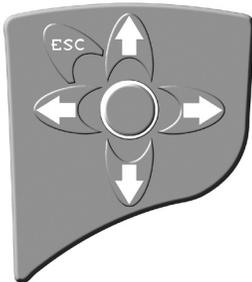


During the backup process the gauges might sweep and various messages will be displayed in the message center. This is normal so do not be alarmed.

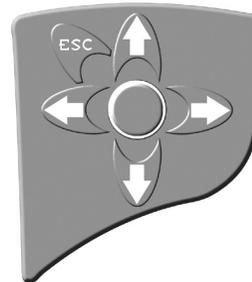


## Installing a tune into a vehicle

The predator will count down 10sec until it is ok to proceed.

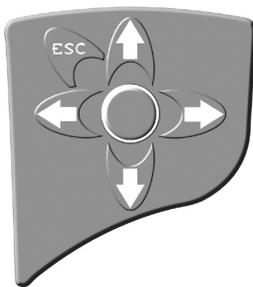


The Predator will count down 10sec until it is ok to proceed.  
**(DO NOT start the engine)**

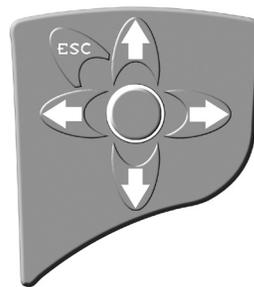


## Installing a tune into a vehicle

Vehicle Data Backup is now complete. Press any key to continue  
Installing a performance tune.



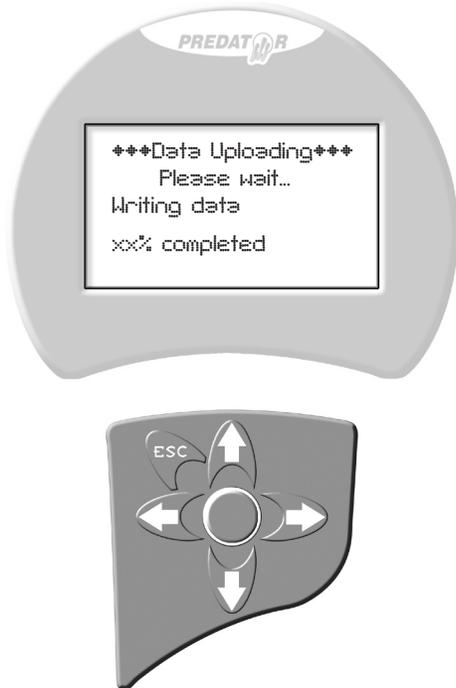
Select "Install Performance" ...



## Installing a tune into a vehicle

Press Enter.

Please wait until installation is complete. This may take several minutes...

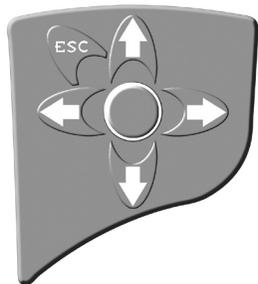


During the installation process the gauges might sweep and various messages will be displayed in the message center. This is normal so do not be alarmed.

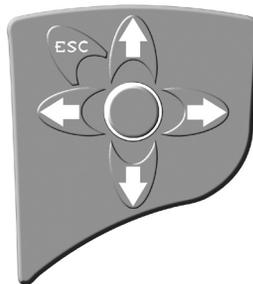
After installation is complete the Predator will prompt you to:



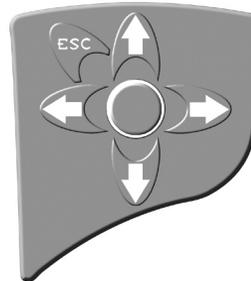
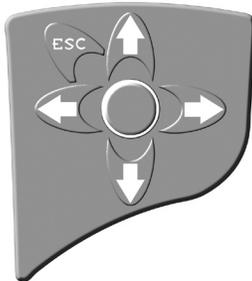
## Installing a tune into a vehicle



Follow instructions on the screen.



**DO NOT** start the engine

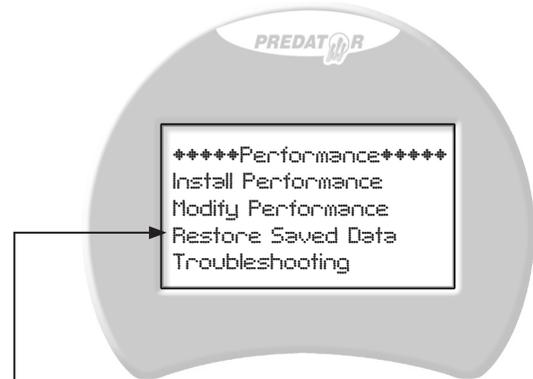


## Restoring factory/stock tune

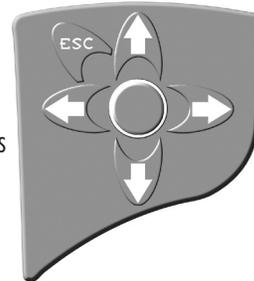
*We recommend restoring the stock tune whenever the vehicle goes in for service.*

*The stock tune can be re-installed at any time using the "restore" feature. This feature will take the DiabloSport tune out and reset the computer to stock. The DiabloSport tune will be saved in the Predator.*

Plug tool into port, select "Tune It" and go through the same steps as installing a DiabloSport tune. (Refer to install instructions)  
After the transmission selection you should see the following screen.

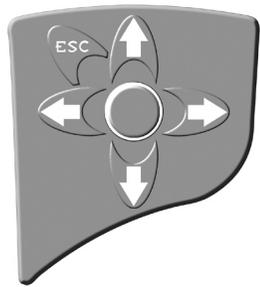


- Select Restore Saved Data. The tool will go through the same installation process as when installing a performance tune.



## Restoring factory/stock tune

Follow all the steps, and once you see this screen, your vehicle has been restored back to stock tune.



## **Caution:**

*DiabloSport will not be held responsible for vehicles with modified parameters since we are not present to monitor the adjusted parameters; therefore we recommend that **this should be left untouched by inexperienced users.***

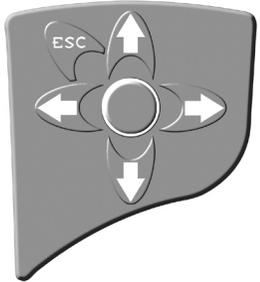
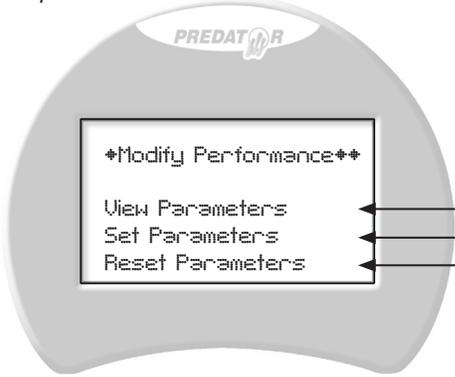
Whenever DiabloSport Performance Tune parameters are adjusted, especially power enrichment and spark parameters, it is very important to monitor the vehicles timing and air fuel to check for detonation/pinging, to ensure the vehicle is operating within safe parameters.

***Do not perform any operations on Predator (except live data diagnostics) while vehicle is running. The vehicle must be parked and engine OFF.***

# Modifying Parameters

This feature is designed for users with extended knowledge of automotive tuning. Modifying fuel and spark parameters increases risk of detonation/pinging and can increase risk to the durability of the vehicle. These parameters, as well as others in the Predator, should only be modified by an experienced tuner and should not be modified unless necessary.

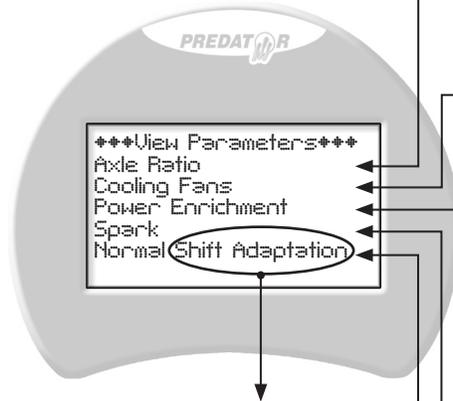
Select "Modify Performance"



- **View parameters** allows user to see parameter settings
- **Set parameters** allows user to adjust parameter settings
- **Reset parameters** allows user to reset parameters back to original DiabloSport Performance tune. Using the reset feature will reset **ALL** modified parameters back to the original DiabloSport Performance tune.

## Modifying Parameters - Parameters Explanation

Select "View Parameters" to



### Shift Adaptation

Allows user to adjust the time delay between shift commitments, i.e. quickness of the shift.

When adjusting to a negative percentage, the shift adaptation will be shorter, hence a quicker shift.

Positive adjustment will yield a longer and slower shift.

### Axle Ratio

Adjust only if different gears are installed, and where necessary. Corrects speedometer and transmission for gear changes. N/A for Corvette (y-car), please read addendum to manual for instructions.

### Cooling Fans

Allows user to change temperatures where cooling fans go on and off. (Applies only to vehicles with electric fans)  
"On" temperature **MUST** be higher than "OFF" temperature for proper operation of fans.

### Power Enrichment

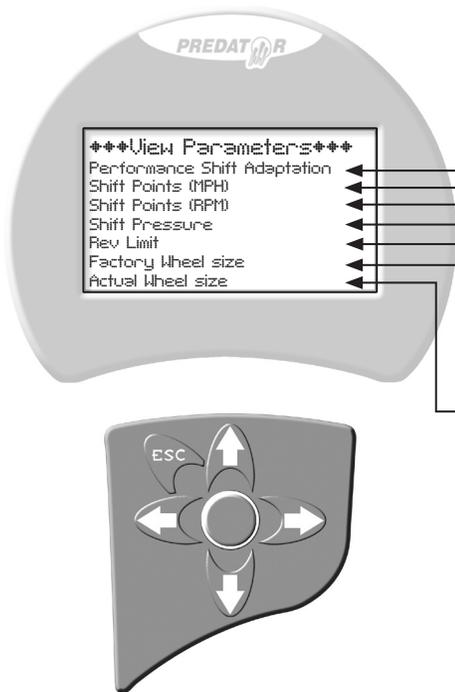
Adjust only if vehicle is running rich or lean **as verified by an air/fuel meter**. Increase numbers if the air/fuel ratio is lean and decrease numbers if the air/fuel numbers are rich. When adjusting the Power Enrichment we will allow up to a 5% increase or decrease of fuel trims at WOT. This translates to approximately a 1.5 point air/fuel adjustment range plus or minus.

### Spark

Adjust only if the vehicle has a spark knock (detonation). Higher number will advance timing lower number will retard timing. When adjusting the spark we will allow up to a 10% increase or decrease of timing in the WOT range. This translates to about a 2 degree +/- range of adjustability.

### Normal Shift Adaptation

Applies to automatic transmissions without TOW/ HAUL mode.



**Performance Shift Adaptation** Applies to automatic transmissions with TOW/ HAUL mode. Adjusting Parameters in the Performance section will apply only when the TOW/HAUL mode is activated.

**Shift Points (MPH)** Allows user to adjust at what MPH the shift should take place. \*

**Shift Points (RPM)** Allows user to adjust at what RPM the shift should take place. \*

**Shift Pressure** Allows user to adjust the firmness of the shift action.

**Rev Limit** Allows user to adjust Rev Limit

**Factory Wheel size:** Enter the factory tire size; tire width, aspect ratio and wheel size. \*\*

**Actual Wheel size:** Enter the actual tire size; tire width, aspect ratio and wheel size. \*\*

\* \*\* Go to next page for NOTES

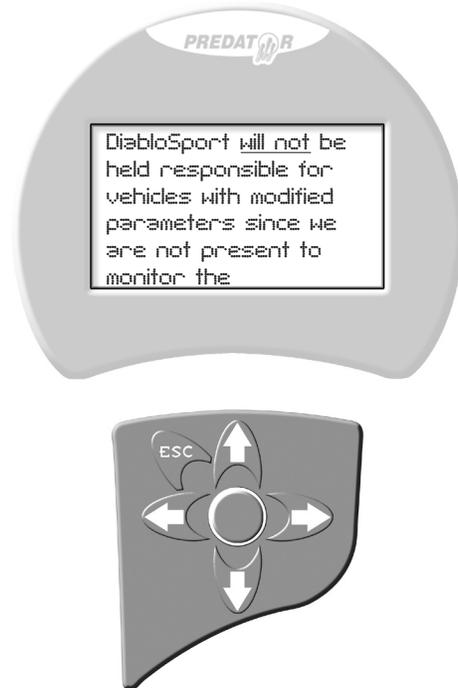
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## Modifying Parameters - Important information regarding DiabloSport Performance Tune Parameter modification

★ **NOTE:** The shift point functions work in conjunction with each other, based on load. Use the RPM shift point function for WOT (wide open throttle) shifts, and MPH shift point function for part throttle shifts. The vehicle **WILL** shift at which ever point it reaches first! This is dictated by load on the vehicle, RPM vs MPH

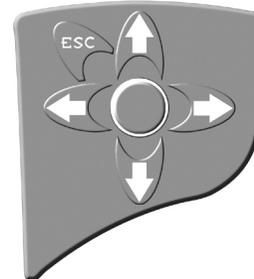
★★ **NOTE:** Adjust only if speedometer is off due to the increase or decrease in tire size. The factory GM PCM can only calculate up to a certain tire size before it will disable the traction control system, however, it **WILL** correct the speedo but the traction control system will be turned off permanently. Traction Control will function once the tire size is restored to factory.

Select "Tune It", go through, and **read carefully**, the disclaimers...



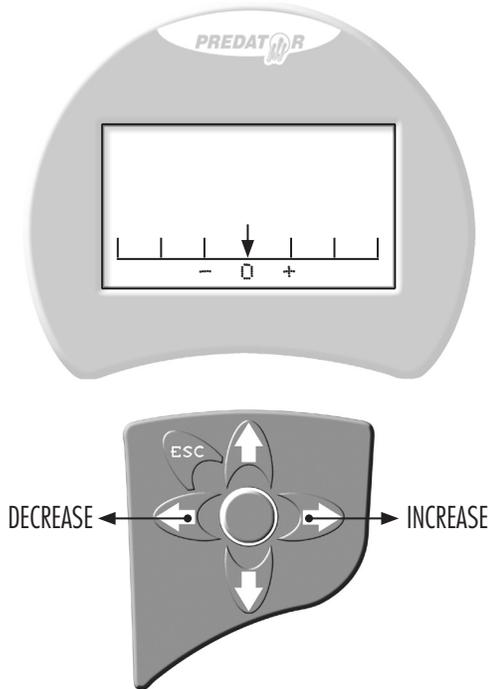


...until you get to this screen.



## Modifying Parameters

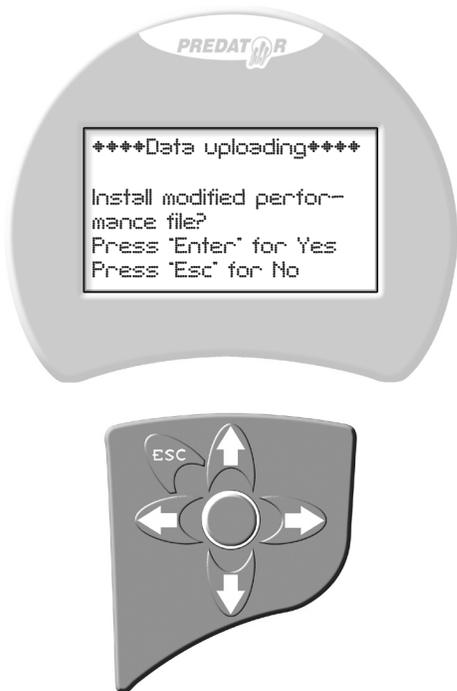
Once desired parameter has been selected its current value will be shown. Press "Enter" to make adjustments.



Make desired adjustments and select "Enter" to save. The new value will be displayed. Press "Esc" to return to Set Parameters menu. Adjust other parameters if desired using the same steps as above.

## Modifying Parameters

Once desired adjustments are completed Press “Esc” while in Set Parameters screen.

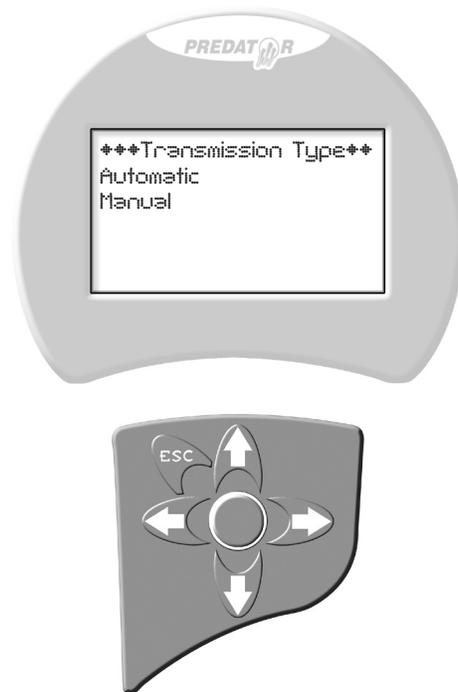


Press “Enter” to upload new adjusted tune.  
The Predator will continue and install tuned file.

## *Diagnostic Section - How to check and erase the SES light.*

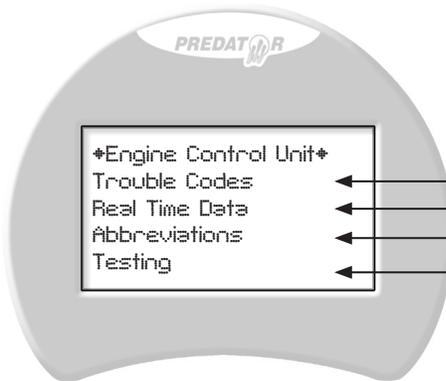
The diagnostic features on this tool can check and erase SES (service engine soon) lights as well as monitor live data from sensors supported.

Select "Diagnostics" from main menu.

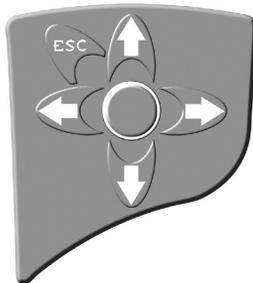


## Diagnostic Section - How to check and erase the SES light.

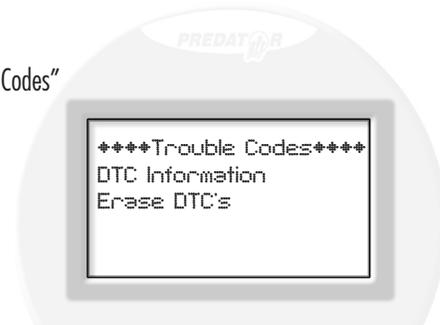
Select your transmission type



- **Trouble Codes:** Allows user to view and erase trouble codes
- **Real Time Data:** Displays live data
- **Abbreviations:** Displays the abbreviations used in live data.
- **Testing:** This menu is used for troubleshooting only.



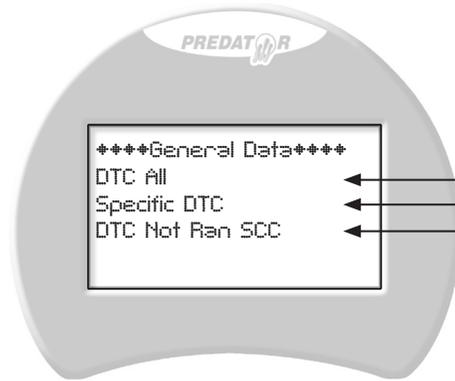
Select "Trouble Codes"



## Diagnostic Section - How to check and erase the SES light.

To view the specific trouble code, select "DTC information".

**DTC** stands for Diagnostic Trouble Code.



**DTC All:**

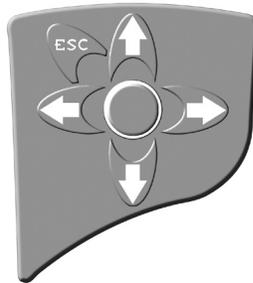
View all DTC's

**Specific DTC:**

Enter DTC to view status

**DTC Not Ran SCC:**

Displays what DTC tests where not performed during the DTC check



**NOTE:** "DTC Not Ran SCC": DTC Not Ran Since Code Cleared. Because the PCM performs tests of modules during driving cycles, some modules are not tested at the time the "DTC All" command is performed. This feature displays what modules were excluded during the "DTC All" test. This information always bases itself from last "Erase DTC's" command performed.

Select "DTC All" to view all DTC codes, once viewed, press ESC twice then select Erase DTC's, your SES light should now turn off as long as the problem is fixed.

## Monitoring Real Time Data

Real time data is just what it implies. The Predator will display an array of sensor input values as the engine is running

- Select "Diagnostics" from main screen.
- Select "Real Time Data"
- Monitor desired parameters

**NOTE:** Only values supported by vehicle model will be displayed.

### Abbreviation

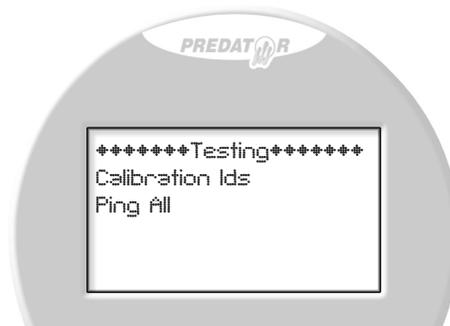
If you select "Abbreviations" you will be able to look through a list of all the abbreviations that may be used during the live data session.

### Testing

Unless instructed, DO NOT USE THIS MENU!

The "Testing" menu is designed to aid DiabloSport if we need to troubleshoot your Predator.

If you select "Testing" the following screen will be displayed



### Calibration Ids

displays numerical ID's of each section of the tune

### Ping All

monitors communication status between PCM and modules

## Options Section

The options menu is mainly for the DiabloSport Predator Dealer.

It contains functions for up/downloading of tunes into tool, tick purchases as well as specific tool identification.

When you select "Options" the following screen will be displayed

- This option is used to upload/download info to the PC
  - This option shows the tools serial number
  - This option is used to set a security password
- This option is used to clear the security password
- This option is used when user gets files from dealer
  - This option displays the amount of ticks available
    - This option is used to buy more ticks
- This option is specify price of ticks (password needed)
  - This option will display Predator tool data

