



# HEMI GAS

**PREDATOR**

USER MANUAL

**DIABLOSPORT**  
GAS AND DIESEL TUNING SYSTEMS



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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 hand-held computer unit (the "Unit"), and 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 DiabloSport Inc. is granting a non-transferable restricted license to Purchaser to use the Product for the sole purpose of installation in Purchaser's vehicle. DiabloSport Inc. 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 DiabloSport Inc. 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 DiabloSport Inc. 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 DiabloSport Inc., or any other party related to DiabloSport Inc., 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. DiabloSport Inc.'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 DiabloSport Inc. from all liability, claims and damages associated with the Products, with the sole exception of DiabloSport Inc.'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 2 years from the date of original purchase. 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.

Warranty Information

- a. DiabloSport offers a 30 day satisfaction guarantee on all products.
- b. DiabloSport products carry a 2 year warranty against defects in materials or workmanship.
  - i. DiabloSport's liability under this warranty shall be limited to the correction or replacement of any defective part or product in question which DiabloSport determines to be necessary.
  - ii. Warranty freight charges are the responsibility of the dealer distributor and/or customer.
  - iii. This warranty is to the original purchaser and is non transferable.
  - iv. This warranty is void unless proof of purchase is submitted.
  - v. Removal of serial numbers and/or alteration of product or packaging will also void all warranties.
- c. DiabloSport shall not be held responsible for direct or indirect failures due to our product.

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- d. DiabloSport shall not credit or repair any units that are not properly restored to the original backup upon time of return or may be VIN locked.
- i. VIN locked units, or improperly restored units, will be returned to customer.
- ii. It is the customers responsibility to check any and all DiabloSport product to make sure the original backups have been restored to vehicles before the product shall be returned.
- e. Technical Support
- i. DiabloSport customers should maintain adequate knowledge of the DiabloSport product line to be able to properly sell, and to service the needs of their customers.
- ii. DiabloSport will provide technical assistance and advice directly to the dealer/distributor to enable them to answer and field technical questions.
- iii. It is the responsibility of the dealer distributor to handle their own technical issues with customers, and not to direct them to DiabloSport.
- f. Product updates
- i. DiabloSport shall inform all customers of the latest product as soon as they are available.
- ii. DiabloSport cannot be held accountable for any or all damages caused by using outdated product.
- iii. Products that need updates will be handled in the following fashion:
1. DiabloSport will charge a labor and handling fee for products that are internet updateable or remotely updateable.
  2. DiabloSport will not charge a fee for products that are not internet updateable or remotely updateable.
- iv. All products returned for update purposes must have a corresponding DiabloSport RMA number for processing.
- g. Returns and RMA/RGA policies and procedures
- i. DiabloSport will not warranty, credit, or exchange any product returned without a valid RMA number.
1. All RMA numbers are issued by DiabloSport RMA department.
  2. Defective units shall be repaired and returned in like kind. All units that must be re-furbished to like new condition are subject to labor and parts charges to be determined by DiabloSport.
- ii. Customers are subject to a 20% restocking fee for all product returned for credit.
- iii. All units on RMA MUST have conditions for which they were

returned clearly labeled on the box, or given to a DiabloSport RMA representative at the time the RMA is issued.

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.

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## DiabloSport Inc. Predator Satisfaction Guarantee / Return Policy

All DiabloSport products have a satisfaction guarantee. If in the first 30 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. 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 does not have a performance tune remaining in it.

### Predator Revisions:

In an effort to keep the Diablosport Predator at the forefront of technology, Diablosport will offer revisions to the Predator when necessary. Updates are available via the web or you can return the Predator for a revision update. Please contact Diablosport for a Return Merchandise Authorization Number (RMA) and an address to ship to. Predators shipped without an RMA number clearly on the outer box will be refused. The updates will be provided free of charge. The customer is responsible for all freight expenses.

## IMPORTANT PLEASE READ

### TUNE INFORMATION

DiabloSport Performance - For stock to mildly modified applications - NOT FOR USE WITH SMALLER UPPER AND/OR LARGER DIAMETER LOWER PULLEY APPLICATIONS

### AFTERMARKET PARTS

Use of the DiabloSport Predator with aftermarket products is at the owners risk; some aftermarket products create rich or lean conditions based on design by the products manufacturer. It is impossible to test every possible product so please proceed with caution when using any product related to adding airflow like throttle bodies, filters and cold air intake kits or boost in the form of pulleys, or blower upgrades, changes in exhaust systems or exhaust components, even rear end gear changes (which make rate of acceleration changes can affect air fuel ratio). Customers with these modifications may need a custom tune from Diablosport or one of its CMR dealers. DiabloSport recommends the use of a dyno and air fuel meter to monitor data when adding aftermarket products to make the proper tune changes with Predator.

\*Premium grade unleaded fuel must be used for all PREDATOR applications; AMOCO, MOBIL, SUNOCO fuels are recommended.



## Preparing to install the Diablosport Performance Tune

Preparing to  
Install the  
Diablosport  
Performance  
Tune

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## Predator Applications

U7135-5.7L and 6.1 L Hemi V8 Engines

2006-2007 Jeep Grand Cherokee SRT-8  
2005-2007 LX Magnum/Charger/300C  
2005-2007 SRT-8 Magnum/Charger/300C

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## OBD II Diagnostic Port Location

Please read through the manual before installing any tune into your vehicle - failure to follow proper instructions can result in a damaged or disabled ECU (Engine Control Unit).

User must ensure that the original vehicle Factory Tune is in the vehicle's ECU before installing the DiabloSport tune. (original dealer reflashes are the same as Factory Tune).

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



Preparing to  
Install the  
DiabloSport  
Performance  
Tune

Preparing to  
Install the  
Diablosport  
Performance  
Tune

Display and Keypad Description

Up arrow:  
Scroll up the menu

ESC Key:  
Jump back to previous menu  
or jump to top of menu selection

Left arrow:  
Set gauge value left

Enter Key/Continue:  
Select the highlighted item

Right arrow:  
Set gauge value right

Down arrow:  
Scroll down the menu





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## Very important!

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

- Always have all the doors closed while installing the DiabloSport Performance Tune, and keep them closed until the process is complete.
- Do not activate any electrical accessories while installing the DiabloSport Performance Tune. Ensure that there are no electronic Aftermarket accessories\* wired or plugged into the vehicle that can cause a substantial voltage drop. Please contact DiabloSport if you are uncertain about the effect of 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 any tune on a vehicle with a low battery voltage - charge your battery if necessary.
- Unless instructed, never turn the ignition key OFF while the Predator is plugged into diagnostic port.
- Do not unplug the Predator while it is installing the DiabloSport Performance Tune or the Original Backup.

## \*Important Note:

All electronic aftermarket add-on parts can create a potential power draw.

- tachometer
- electrical fans
- shift light
- audio/video equipment
- gauges
- trailer/ tow equipment

Any change in voltage during flash programming procedures WILL interrupt the writing process.

Please disconnect or disable any such add on part.

In the event of such an occurrence, unplug the tool, wait 5 seconds and then plug it back in. The tool will recognize that a interrupted writing error has occurred and will automatically install the original back up. The vehicle is now in its original state. Please attempt to locate the voltage draw before Predator is used again.

Please feel free to contact DiabloSport directly at any time with questions related to this process. 18005315484

IT IS NOT NECESSARY TO CONTACT THE VEHICLE MANUFACTURER SHOULD SUCH ERRORS OCCUR. ANY AND ALL COSTS RELATED TO SUCH ACTIONS ARE THE RESPONSIBILITY OF THE END USER - NOT DIABLOSPORT OR ITS DEALERS.

Preparing to  
Install the  
DiabloSport  
Performance  
Tune





# Installing the Diablosport Performance Tune

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## Installing the Performance Tune

Predator contains several predefined DiabloSport Tunes. These are thoroughly tested and approved by DiabloSport. You have a choice of either installing the DiabloSport Tune "as-is" into your vehicle, or customizing it to your personal taste.

If you are satisfied with your factory tuned vehicle and only have a desire to modify a parameter or two (example: change gear ratio), you might want to read the chapter 'Customizing the Factory Tune'.

Before you install any tune into your vehicle, when you use the Predator for the first time, it will read the Original Factory Tune out of your vehicle and permanently store it in its memory. This process takes a minute or two. For safety reasons, there is no way to overwrite this backup and therefore the Predator becomes 'married' to, and only to, your vehicle until original backup is restored.

If there is ever a need to send the Predator back to DiabloSport, for any reason, the Original Backup must be put back into your vehicle, as described in the section Reinstalling the Original Factory Backup, otherwise your Predator will not be accepted back by the reseller. To find out, which tune was last written to your vehicle, go to 'Predator Options / Show Last Tune Written' in the Predator.

## Hemi Tune Information

### Performance Tune:

Designed to add power and torque using premium fuel, this tune can be used with minor bolt-ons and aftermarket exhaust systems.

### Performance CAI Tune: (cars only)

Designed to add power and torque using premium fuel and a CAI (cold air intake), this tune can be used with minor bolt-ons and aftermarket exhaust systems.

### Performance 91 oct. Tune: (cars only)

Designed to add power and torque using 91 octane fuel, this tune can be used with minor bolt-ons and aftermarket exhaust systems.

### Performance 91 oct. CAI Tune: (cars only)

Designed to add power and torque using 91 octane fuel and a CAI (cold air intake), this tune can be used with minor bolt-ons and aftermarket exhaust systems.

### Modify Stock Tune:

Modify Stock tune settings where user can adjust any of the adjustable parameters available for the application.

### Original Backup:

Stock tune, installing this will reset the Predator and allow it to be used on another vehicle.

NOTE: WHEN CHANGING HP TUNES, THERE IS NO NEED TO RESTORE FACTORY TUNE BEFORE INSTALLING A NEW(DIFFERENT) HP TUNE. YOU WILL BE PROMPTED TO RESET PARAMETERS PRESS YES OR NO AS YOU DESIRE.

\*Premium grade unleaded fuel must be used for all predator applications; AMOCO, MOBIL, SUNOCO fuels are recommended.

## Installing the DiabloSport Tune for the First Time

The very first time the Predator is used on a vehicle it will automatically create a backup of the original factory tune.

(Installing the DiabloSport Performance Tune)

1. Plug the Predator into the Diagnostic Port of the vehicle, located under the driver's side dash.
2. The first screen you will see is the startup screen with the name of the vehicle the predator supports (i.e.: Hemi )
3. Performance tune should be three choices:
  - Performance Tune
  - Diagnostics
  - Options
4. Select "Performance Tune" by pressing the "Continue" key
5. Disclaimer will appear, - read & press "Continue"
6. Turn the ignition ON. DO NOT START Vehicle- press "continue" (If selecting "modify Tune" see the section on changing parameters)
7. Select "Diablo Tunes" and press enter.
8. Highlight the tune you would like to install by using arrow keys. Press "enter" to continue
9. Verification of the tune will appear. If this is correct, Highlight "Choose" & press "Enter".
10. The original Backup will now be saved. "press enter to continue".
11. Follow the prompts to turn on & off the ignition (do not start the car at any time) press "enter" if prompted.
12. A status bar will show progress on the backup process. This might take several minutes.
13. When completed, a message saying "Original Backup has been saved" will be displayed. Press "Continue".
14. At this point you have the option of installing the Diablo tune or modifying a tune. Highlight the appropriate choice by using the arrow keys & press Enter.

For more on modify tune please see the modify tune section in the manual.

15. Follow the prompts to turn on & off the ignition (do not start the car at any time) press "enter" if prompted.

16. The tune should now be writing. Do not interrupt this process or ECM damage can occur.

NOTE: You may be asked to cycle the key more than once after the tune is written, this is normal.

17. When the Process is complete, the Message " {xxxxx} tune is now in vehicle. You may drive it now. Please unplug the tool"

Unplug the predator from the Diagnostic port. Cycle the key, and start the vehicle. You are now able to enjoy the force of the Predator!!

NOTE: During programming the head lights will come on and stay on until process is complete.

On vehicles equipped with the rain sensing wipers it is recommended to turn them to the "0" position on the stalk before programming as they will engage if not turned to "0".





## Modifying Parameters & Quick Adjust menu

## Modify Tune Procedures

1. When selecting the "Modify tune" function, a disclaimer will appear. Read and press "Enter" to continue.
  2. The "modify Performance Tune menu will appear. You will have 2 choices:
    - Modify Parameters
    - Reset all Parameters
  3. Highlight the appropriate choice by using the arrow keys & press "Enter"
  4. In the "Modify Parameters" Menu the following choices will appear for your Hemi applicable vehicle:
    - Speed Limiter
    - Idle Speed
    - WOT Spark Advance
    - WOT Fuel Table
    - Knock sensor Enable/Disable
    - Cooling Fans
    - Rev limiter
- "Parameters/Features may not apply to all applications and may not be available upon release. Check [www.diablosport.com](http://www.diablosport.com) for current parameters.
5. Highlight the appropriate choice by using the arrow keys & press "Enter"
  6. Modify the appropriate parameter by using the arrow keys & press "Enter" to continue. [ These parameters should only be changed is you have a understanding of tuning. Engine or ECM damage can occur without proper knowledge.]
  7. Verification will display "Are you sure?" press "Enter" to continue
  8. The display "this change will take effect next time you install the tune" will appear – Press "Continue"

9. Use the "ESC" key to go back through the menus and either continue to change parameters or go to the "install tune now?" menu. Press "Enter" to continue.
10. The tune should now be building. Do not interrupt this process or PCM damage can occur.
11. Follow the prompts to turn on & off the ignition (do not start the car at any time) press "enter" if prompted
12. The tune should now be writing. Do not interrupt this process or ECM damage can occur.  
During programming do not touch any buttons or open and close doors, the theft light will blink rapidly and on some vehicles the electric fans will come on during programming.
13. Follow the prompts to turn ON & OFF the ignition (do not start the car at any time) press "Enter" if prompted
14. When the process is complete, the Message " {xxxxxx} tune is now in vehicle. You may drive it now. Please unplug the tool" Unplug the predator from the Diagnostic port. Cycle the key, and start the vehicle. You are now able to enjoy the force of the Predator!

NOTE If tune is not installed at the prompt the adjusted parameters will not be lost, they will be saved, just not installed in the vehicle. To reset parameters, simply press "Reset Parameters" button. When switching from Performance Tune, Stock tune or Custom tune you will be prompted to keep or discard adjusted parameters.



## Modifying Parameters & Quick Adjust

### Adjustable Parameter description:

Timing table 1000-3800rpm (+10/- 10deg)

This will allow user to adjust timing in the lower rpm ranges.

Timing table 4000-4800rpm (+10/- 10deg)

This will allow user to adjust timing at peak torque where the engine is most prone to detonation.

Timing table 5000-7000rpm (+10/- 10deg)

This will allow user to adjust timing at high rpm past peak torque for peak horse power.

Fuel table 1000-3800rpm (+/- 20%)

This will allow user to adjust fueling in the lower rpm ranges.

Fuel table 4000-4800rpm (+/- 20%)

This will allow user to adjust fuel for peak torque, a little more fuel can cure detonation issues at peak torque.

Fuel table 5200-7000rpm (+/- 20%)

This will allow user to adjust fueling at high rpm past peak torque for peak horse power.

Idle rpm in drive: (+ 400rpm / -400rpm)

This will allow user to adjust desired idle rpm when vehicle is in drive.

Idle rpm in park/neutral: (+ 400rpm / -400rpm)

This will allow user to adjust desired idle rpm when vehicle is in park and neutral.

Rev limiter in drive:

This will allow user to adjust the rev limit in drive.

Rev limiter in park/neutral:

This will allow user to adjust the rev limit in park/neutral.

Vehicle speed limiter:

This will enable you to adjust the electronic speed limiter.

Fan control:

AC off high MPH high speed fan on temp

AC off high MPH low speed fan on temp

AC off high MPH medium speed fan on temp

AC off low MPH high speed fan on temp

AC off low MPH low speed fan on temp

AC off low MPH medium speed fan on temp

AC on high speed fan on temp

AC on medium speed fan on temp

AC on low speed fan on temp

Knock Sensors:

This will allow user to enable or disable long term and short term knock sensors.

NOTE: Poor quality fuel can cause severe damage to your engine with the knock sensors disabled, should only be done with high quality high octane fuels.

## Modifying Parameters & Quick Adjust

### Quick Adjust

This menu has select items that do not require a tune to be written to the vehicle in order to take effect, they only require a simple key cycle.

These parameters can be adjusted at any time with any tune installed in the vehicle. These items (except for ESP) are also available in the modify parameters menu.

Each Quick Adjust change will ask you to cycle the ignition key after changing them. Once ignition key is cycled the parameter has changed and you can unplug the Predator.

### Quick Adjust parameters:

#### ESP:

ESP enable/disable, this will enable or disable your ESP system

This system is enabled until user disables it here.

NOTE: When the ESP is disabled the ABS will not function and the Brake, ESP BAS and ABS lights will stay lit on the dash.

The ESP disable also gets enabled each time the vehicle is flashed.

#### Tire Size:

This will allow user to adjust for aftermarket rims and tires.

#### Transmission:

##### Autostick Auto Upshift:

This will enable or disable the automatic upshift when in manual shift mode, it is enabled from the factory, when disabled the transmission will NOT shift to the next gear automatically when in manual mode, it will rev until it reaches the rev limiter.

##### Reset TCM adaptation:

This will reset the learned transmission adaptation.

##### Shift Points:

This will enable you to raise the shift points by a set value.

5.7L 1-2 shift 5800rpm, 2-3 & 3-4 shifts at 6000rpm

6.1L SRT8 1-2, 2-3 & 3-4 shifts at 6400rpm

##### Shift Firmness:

This will increase shift firmness to a preset value.

Not available for SRT vehicles.







export/import  
custom tunes

## Export/Import Custom Tunes

### Custom Tunes

The custom tune menu is for heavily modified vehicles that require additional adjustments beyond the capability of the programmer.

This option should be handled by dealers only, as they must transfer the original tune from Predator to PC and send it to Diablosport for modifications.

### Export Tune

Before exporting Extra tune, user must first go to "Troubleshooting" then "Read Extra Tune", follow prompts and complete this process.

This process will read the current tune in vehicle and save it so it can be transferred to PC.

NOTE: Traction control ON/OFF can be reversed in some vehicles, if turning traction OFF does not work, turn it ON in tool and it should turn traction off in vehicle.

### Custom Tune

The Custom tune menu is for heavily modified vehicles that require additional adjustments beyond the capability of the programmer.

This option should be handled by dealers only, as they must transfer the original tune from the Predator to PC and send it to Diablosport for modifications.

To export the extra tune or original backup, just connect the predator via serial cable to PC and then power Predator on.

Predator go to "options" then "custom tune" then select "export custom tune".

Select either "Original Backup" or "Extra Tune", click "continue" on the following screen.

Then in software, click "Get File", enter a file name and select proper folder to save the file in and click "OK" A status bar should appear in the bottom left corner.

NOTE: Name the file appropriately with .frg as file type. Make

sure you note where you save the file on your PC so you will be able to find it after operation is completed.

### Import Tune

1) On the Predator, go to " Options " then to " Custom Tune " Click " Yes " on the following screen, you want to overwrite extra tune.

2) Then, in software, click "Send File" , select the file and click "OK"

3) Once transferred, the predator will process the tune and ensure that it is correct.

4) Plug the predator into vehicle and instead of the normal tunes you will now have "Custom Tune" there instead. Select Custom Tune and install or modify/ install the tune as usual.

### Erase Custom Tune

Use this command to erase the custom tune in the predator and go back to default Diablosport tune.

Options/Custom Tune then you will see a message saying "This option is for dealers and expert users only". Hit (Continue) Go to "Erase Custom Tune"

### Important Hardware For Custom Tunes/Updates

Hardware required: 12V DC 1.0A Power Supply DB-9 9-Pin Serial Cable Extension (Radio Shack part # 26-117B) or on Windows XP computers you can use a Serial to USB cable (Radio Shack part # 26-183)





Re installing  
the Original Backup

## Re-installing the Original Backup

There are three occasions when one needs to re-install the Original Factory Tune back into the vehicle:

- Going to the dealer for vehicle maintenance or repair.
- Returning the Predator to an Authorized Diablosport Dealer.
- Using the Predator on another vehicle.

To restore Original Backup go to Performance Tune and then select Original Backup.

When the Predator starts to write the Original Backup into your vehicle, a progress bar will indicate the status of writing. Follow all instructions on the Predator screen. The complete process will take about 1 minute. NOTE: If Quick adjusts have been modified you will be asked to cycle the ignition key several times after the write process has completed.







# Vehicle Diagnostics

Vehicle  
Diagnostics

Select the "Diagnostics" item from the main menu of the Predator, then press the Enter key

- Allows user to view the vehicle trouble codes
- Allows user to clear the trouble codes from the vehicle
- Displays real time data (live data)
- Stream live data to view on PC Dat Viewer
- View logged data



## Diagnostics

Show Trouble Codes = Display any stored trouble codes in memory.

Clear Trouble Codes = Delete any stored trouble codes in memory.

Real Time Data = View real time data, this section is set up in groups of parameters to view.

NOTE: If switching tool from one vehicle to another vehicle you must go into the options menu and press live table reset

Each group (when selected) allows user to show specific values or all values in the group. To see specific values choose "Show Select" then based on what sample rate you would like choose "Slow" or "Fast". The next screen will show all parameters available. Highlight and press the ENTER (circle) button next to value you would like to display, once completed press "ESC" button.

## Data Logging

All live data groups can be data logged.

When specifying parameters to view you will be asked to choose "Slow" or "Fast" rate.

Fast rate will sample the values at a higher rate and will be able to log data for about 45min, the more parameters you select the lower the granularity for values will be, we recommend no more than 8 for best sample rate.

Slow rate will sample at a slower rate and will be able to log data for about 1hr 30min, when choosing to view all values the default rate is slow.

Once the proper sample rate is selected, the next screen will ask "DATALOG" yes or no, select "YES" and the data logging will start.

To stop data logging, press the "ESC" button.

## Log Playback

To view the logged values, go back to main diagnostic menu and select "Log Play Back".

Top right hand corner will display the total time data logged.

Top left hand will display elapsed time.

Top Center will display progress bar and mode of view.

Show Trouble Codes = Display any current trouble codes

Clear Trouble Codes = Delete any current trouble codes

Real Time Data = View real time data, this section is set up in groups of parameters to view.

NOTE: When switching tool from one vehicle to another vehicle you must go into the options menu and press live table reset

Each group (when selected) allows user to show specific values or all values in the group, to see specific values choose "Show Select" then based on what sample rate you would like choose "Slow" or "Fast" the next screen will show all parameters available, highlight and press the enter button next to value you would like to display, once completed press "ESC" button.

You will now be asked if you wish to data log (record data) or just view the parameters without data log.

### Data Logging

All live data groups can be data logged.

When specifying parameters to view you will be asked to choose "Slow" or "Fast" rate.

Fast rate will sample the values at a higher rate and will be able to log data for about 45min, the more parameters you select the lower the granularity for values will be, we recommend no more than 8 for best sample rate.

Slow rate will sample at a slower rate and will be able to log data for about 1hr 30min, when choosing to view all values the default rate is slow.

Once the proper sample rate is selected, the next screen will ask "DATALOG" yes or no, select "YES" and the data logging will start.

To stop data logging, press the "ESC" button.

### Log Playback

To view the logged values, go back to main diagnostic menu and select "Log Play Back".

Top right hand corner will display the total time data logged

Top left hand will display elapsed time.

Top Center will display progress bar and mode of view.

To start viewing data press the enter button, to pause press enter button.

While paused you can use the left and right arrow keys to move forward or backward in the log file, once desired point is reach press enter key to start displaying values from that specific point.

To exit out of the data log press the "ESC" button.

### Log Upload to PC.

You can also upload the log file into PC and view it with our live streaming data viewer.

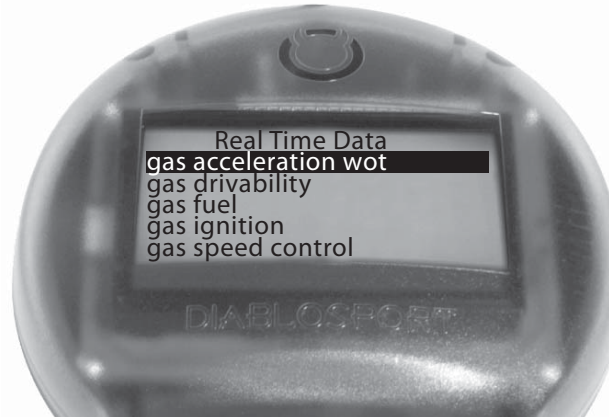
To upload the log file to pc you must have the data view software to upload and to view the data.

### Real Time Streaming

This option allows you to stream live data directly to your PC into the data view software.

Set up the software on your PC and ensure that you have the right COM port enabled then press "Real Time Streaming" button to view the values.

To obtain a copy of our data viewer, please visit our web site [www.DiabloSport.com](http://www.DiabloSport.com)



### Live Data Groups

Gas Acceleration WOT = Contains parameters that are commonly viewed during dyno tuning and wide open throttle runs.

Gas Drivability = Contains parameters that are commonly viewed during drivability testing and monitoring.

Gas Fuel = Fuel related parameters

Gas Ignition = Ignition related parameters

Gas Speed Control = Vehicle speed related parameters

Gas Trans = Transmission related parameters

Real Time Streaming = View real time data on PC

Log Play Back = View logged data







Troubleshooting &  
Options

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Frequently Asked Questions

Q.Can the dealer detect the Predator/will the tune void my warranty?

A. No, the Predator saves your stock tune and will allow you to restore the stock tune to the PCM at any time.

Q.Can I use the Predator to tune more than one car at a time?

A. No, the Predator can only tune one car at a time. In order to use it on another supported vehicle, you must first restore the stock tune to the car it is married to, which will unlock the Predator.

Q.Where do I plug the tool in to the car?

A. It plugs in under the dash in the OBDII port which can easily be located by looking in your DiabloSport Predator's manual or your car's manual.

Q.I am not a mechanic nor do I know a lot about cars, how hard is the product to install?

A. If you can change the channels on your television you can install the Predator. With the press of a few buttons and about 3-5 minutes your selected tune will be installed.

Q. How much horsepower will I gain? Will I lose fuel economy?

A. You will notice a significant difference in the drivability of your vehicle. Average Horsepower/Torque gains are 5%-7% and these are real numbers. Our gains are measured as "to the wheels" not to the crankshaft or to the flywheel like some of our competition does. In specific vehicle applications we have seen Horsepower and Torque gains up to 30% to the wheels!

Q. Everything seems too good to be true, but I am worried about my fuel economy. Will I experience a decrease in fuel efficiency?

A. No! As long as you drive under normal conditions and do not have a "lead foot" you will generally see an IMPROVEMENT in your fuel economy. In specific vehicle applications we have even seen fuel gains up to 30%!

Q. I know technology is changing and so are cars. How can I be assured that I am getting an up to date product?

A. DiabloSport takes every precaution necessary to ensure that the product you receive is updated to the most current revision we have. We also offer FREE ONLINE UPDATES for all of our Predators.

Q. What other features/parameters does the DiabloSport Predator offer for my Vehicle?

A. Depending on the year, Make, Model, and fuel type, the diabloSPORT predator offers a mass of adjustable parameters. For a complete list of adjustable parameters applicable to your vehicle specifically please visit us at [www.diabloSPORT.com](http://www.diabloSPORT.com) or look in your user manual. Below you will find some of the adjustable parameters the DiabloSport Predator offers:

- Adjust Speed Limiter
- Adjust Speedometer for change in Tire Sizes
- Gears/Axle Ratio
- Shift Points
- Shift Firmness/Pressure
- Line Pressure Adder
- Cooling Fan Control
- Rev Limiter
- EGR Controls
- Misfire Controls
- Traction Control
- Torque Management Controls
- CAGS/Skipshift
- Rear O2 sensor controls
- MAF curve adjustments
- Disable P-Codes
- Internet Updatable
- Check/Clear Trouble Codes
- Data Monitoring/Logging/recording
- Spark Advance
- Fuel Tables
- And many more!



The options menu is mainly for use by your DiabloSport Dealer. When you select "Options" the following screen will be displayed:

This option shows the Predator serial number

Displays the name of the last tune written to the vehicle

Brings up the submenu for Custom Tunes from DiabloSport

Brings up the Troubleshooting submenu

Alter the serial port baud rate



### Options Menu

Display Serial Number = Show the Predators serial number

Show Last tune Written = Display the last tune written to vehicle

Custom Tune = Custom tune menu, see Custom Tunes section

Troubleshooting = See Troubleshooting section

Serial Baud = Set the serial baud rate of communications for Predator.

NOTE: When switching tool from one vehicle to another vehicle you must go into the options menu and press live table reset.

### Troubleshooting Menu

Show Calibration ID = Display the hex code on the vehicle

Show VIN = Show vehicles VIN number

Read Extra Tune = Reads the tune in the vehicle for export to PC

Restore Original Backup = Restores the original tune and resets the tool for use on another vehicle.

Log Upload = Upload data log file to PC, see Diagnostics section.

Live Table Reset = Reset this when Predator is used on a different vehicle.

Verification = This is a troubleshooting feature and should only be used with the supervision of Diablosport tech support.





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map on our Web site.

