

DIABLOSPORT

**DURAMAX DIESEL**

**PREDATOR**

**TUNABLE  
PERFORMANCE  
PROGRAMMER**

ENGINEERED TO RAISE HELL

## **User Manual**



REV. JUNE-10-2006

CAN Predator

DiabloSport, LLC.

## Predator Satisfaction Guarantee/ Return Policy

### 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.

## Predator Reflash Policy

All DiabloSport products have a guarantee of satisfaction. 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.

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



*PREDATOR*

# 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 , 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.





## Before Installing the Performance Tune

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## Vehicle Diagnostics, Predator Options

## &amp; Troubleshooting

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## OBD II Diagnostic Port and Fuse Location

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

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



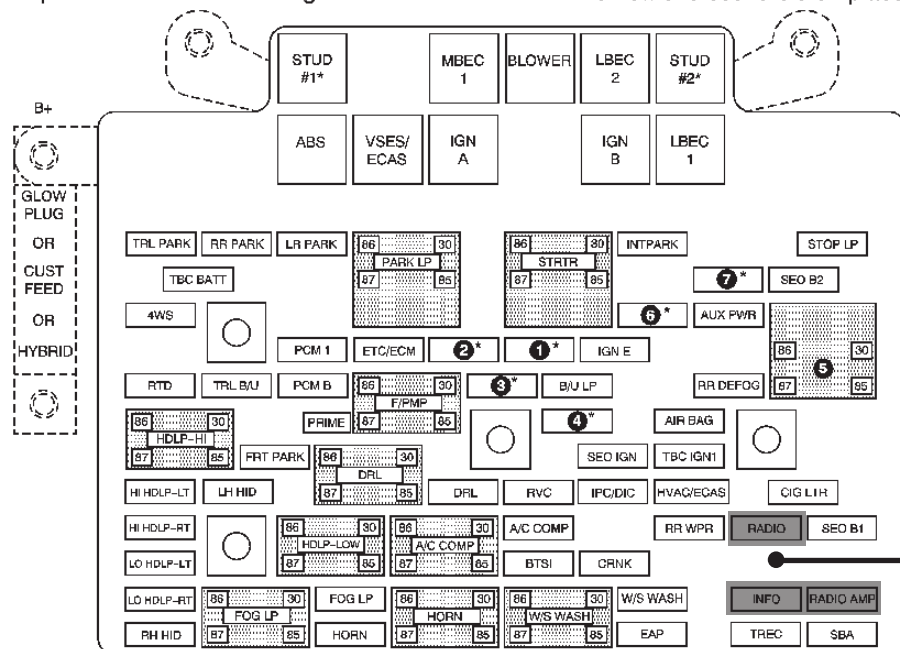
**Engine Compartment Fuse Panel:** The engine compartment fuse panel is located on the drivers side in the engine compartment. Remove cover to expose the fuse panel.

# Fuse Removal

3

Replace cover after servicing.

Remettre le couvercle en place.



\* NOTE: The function and amperage of these fuses are different, depending on vehicle content. See Owner's Manual for functions of studs #1 and #2.  
REMARQUE: La fonction et l'intensité de ces fusibles diffèrent suivant l'équipement du véhicule. Voir le Guide du propriétaire pour les fonctions des plots 1 et 2.

FUNCTION (AMP)  
FONCTION (INTENSITÉ)

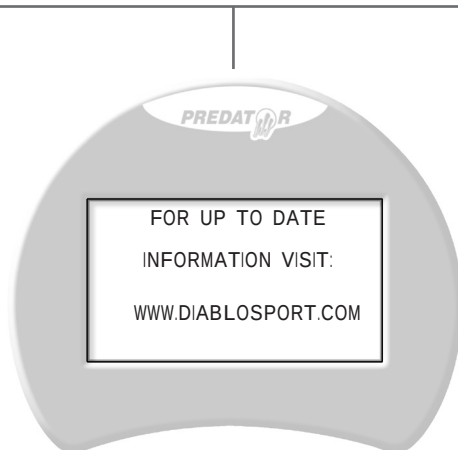
| GAS<br>ESSENCE | DIESEL<br>DIESEL | EXCEPT H2<br>SAUF H2 |
|----------------|------------------|----------------------|
| 1 INJ 2 (15A)  | 1 EDU (25A)      | 6 RR HVAC (30A)      |
| 2 INJ 1 (15A)  | 2 ECMRPV (15A)   | 7 S/ROOF (25A)       |
| 3 02A (15A)    | 3 FUEL HT (15A)  | H2                   |
| 4 02B (15A)    | 4 ECMI (15A)     | 8 S/ROOF (30A)       |
| 5 IGN 1        | 5 EDU            | 7                    |

## Fuses to be removed prior to programming.

The 3 fuses are located in the engine compartment fuse box.

- 1/RADIO
- 2/RADIO AMP
- 3/INFO

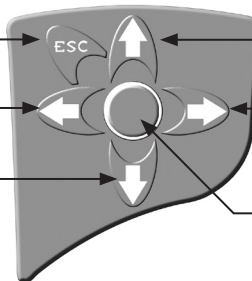
With the ignition in the OFF position, remove these fuses before programming vehicle.



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

**Left arrow:** Set gauge value left

**Down arrow:** Scroll down the menu



**Up arrow:** Scroll up the menu

**Right arrow:** Set gauge value right

**Enter Key/continue:** Select the highlighted item



### **Very important!**

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

- Always have all of the doors closed while installing the DiabloSport Performance Tune. 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 installed on your vehicle.
- Certain cellular phones or radio equipment may also cause interference. Please remove or turn these devices off.
- Do not try to install any tune on a vehicle with a low battery voltage - charge your battery if necessary.
- Never turn the ignition key OFF while the Predator is plugged into diagnostic port.
- Never 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 accessories.

Any change in voltage during flash programming procedures WILL interrupt the writing process, and potentially disable the vehicle.

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 Predator will recognize that an interrupted writing error has occurred and will automatically install the original back up. The vehicle will then be in its original state. Please attempt to locate the voltage draw before the Predator is used again.

Please feel free to contact DiabloSport directly at any time with questions related to this process. 561-908-0040

**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.**

## Installing the Performance Tune

The DiabloSport Predator contains several predefined performance tunes. These tunes are extensively developed, thoroughly tested and approved by DiabloSport.

When you use the Predator for the first time, the Predator becomes 'married' to, and only to, your vehicle until the original backup is restored.

If there is ever a need to send the Predator back to DiabloSport, 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 by the re-seller. To find out which tune was last written to your vehicle, go to 'Predator Options / Show Last Tune Written' in the Predator.

### Performance Tunes for GM Duramax Vehicles

**Modify Stock Tune**, allows the user to adjust the parameters such as speed limit and tire size on the factory tune.

NOTE: This tune does not reset the Predator, select Original Backup to restore the original backup and reset the Predator.

## Performance Tunes for Duramax

**DiabloSport Tow** (Tow Tune) is designed to add power and torque specifically for towing, weight limitations are the same as the stock tune, and inclines must also be factored in.

**DiabloSport 65hp** (Economy Performance Tune) is designed to add power and torque, but with fuel economy in mind. Fuel mileage is always subject to driving style and may vary from vehicle to vehicle. Towing can be done with this tune with a weight limitation of 8,000 lbs. Inclines must also be factored in.

**DiabloSport 85hp** (Performance Tune) is designed to add power and torque, but with fuel economy in mind. Fuel mileage is always subject to driving style and may vary from vehicle to vehicle. Towing can be done with this tune with a weight limitation of 6,000 lbs. Inclines must also be factored in.

**DiabloSport 120hp** (Extreme Performance Tune) is designed to add power and torque. Towing is NOT recommended with this tune, and exhaust gas temperature gauge is recommended using this tune to ensure safe operation during varying conditions.

# Installing the Performance Tune

The very first time the Predator is used on a vehicle it will automatically create a backup of the original factory tune. This process takes approximately 4 minutes.

## (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.
3. The three main menu choices:
  - **Performance Tune**
  - **Diagnostics**
  - **Options**
4. Select "Performance Tune" by pressing the "enter" key
5. A disclaimer will appear, - read & press "enter"
6. Turn the ignition key to the RUN position. DO NOT START VEHICLE- press "enter"
7. Highlight the tune you would like to install by using the arrow keys. Press "enter" to continue.

8. Press "enter" on Install Tune.

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

10. The tune will now be installed in the vehicle. Do not interrupt this process or ECU damage can occur.

11. 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. Turn the ignition to the OFF position. You are now ready to enjoy the power of the Predator tune!!

**Vehicles equipped with the Allison automatic transmission.** Upon installing ANY performance tune the Allison transmission will require some time to adapt its shifting strategy to the added power. The shift quality will be reduced during this learn process. Please allow 4-6 driving cycles for the shift strategy to learn.

**NOTE:** When switching from one Predator tune to another, there is no need to restore the original backup before writing another tune. You can safely go from any Predator tune to another without the need to restore the original backup.

## Modify Tune Procedures

**NOTE: Parameters vary between applications.**

1. When selecting the "Modify Tune" function, a disclaimer will appear. Read, and press the "enter" key 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:

- **Gear Ratio**, this option will allow user to correct the speedometer for different gear ratios.
- **Max MPH**, this option will allow user to raise or lower the speed limiter.
- **Tire Size**, this option will allow user to correct the speedometer for different tire sizes. There are 2 methods provided.

A/ Tire Size by sidewall #, user will enter the values displayed on tire, ex 245/65-16, in Predator.

B/ Tire size by height, user will measure the total tire height of tire and enter that value in Predator. Measurement is in inches.

NOTE: The "Tire Size by sidewall #" option is the most accurate of the two.

## Modify Tune Procedures

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.
7. Verification will display "Are you sure?" Press "enter" to continue.
8. The Predator will "this change will take effect next time you install the tune" display – Press "enter".
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 ECU damage can occur.
11. Follow the prompts to turn the ignition ON & OFF (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 ECU damage can occur.

During programming do not touch any buttons or open and close doors. The dash gauges will become inoperative during programming.

13. Follow the prompts to turn the ignition ON & OFF (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. Turn the ignition to the OFF position. You are now ready to enjoy the power of the Predator tune!!

**NOTE** If the tune is not installed at the install tune prompt the adjusted parameters will not be lost, they will be saved, just not installed in the vehicle.

To reset parameters, simply select the "Reset Parameters" item.

The adjusted parameters will remain the same when switching from the Performance Tunes, Modify Stock Tune tune or Custom tune. There is no need to re-adjust them between tune changes. The changes will be applied to any tune installed from the Predator.

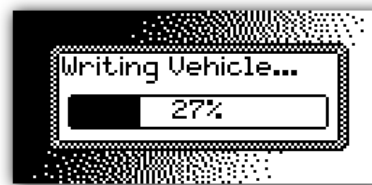
## How to Install the Original Backup

There are three occasions when one needs to install the original backup into the vehicle:

- When going to the dealer for vehicle maintenance or repair.
- When returning the Predator to an authorized Diablosport dealer.
- Using the Predator to program another vehicle.

To restore the original backup select Performance Tune and then select original backup.

**NOTE:** The Modify Stock Tune tune is NOT the same as original backup. The Modify Stock Tune tune will NOT reset the Predator. To restore and reset the Predator, the original backup must be selected.

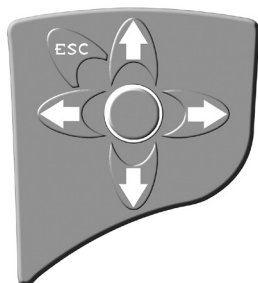


When the Predator starts to write the original backup into your vehicle, a progress bar will indicate the writing process. Follow all instructions on the Predator screen. The process will complete in about 1 minute.

Once the original backup is restored the Predator can be used to program another vehicle

## 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\*

For more information on OBD-II diagnostics and trouble codes, please visit [www.kotzigpublishing.com](http://www.kotzigpublishing.com).

\*Not applicable on all applications

## Vehicle Diagnostics

**Show Trouble Codes** = Display any current diagnostic 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 the Predator from one vehicle to another vehicle you must go into the "Options" menu and press "Live table reset"

Each group (when selected) allows the user to show specific values or all of the 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 the value you would like to display, once completed press the "ESC" button.

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

### 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 45 min, the more parameters you select the lower the granularity for values will be. We recommend no more than 8 for good sample rates.

Slow rate will be able to log data for about 1 hr 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 the 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 the progress bar and mode of view.

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

While paused, you can use the left and right arrow keys to move forward or backward in the log file. Once the desired point is reached press the enter key to start displaying the values from that specific point. To exit out of the data log, press the "ESC" button.



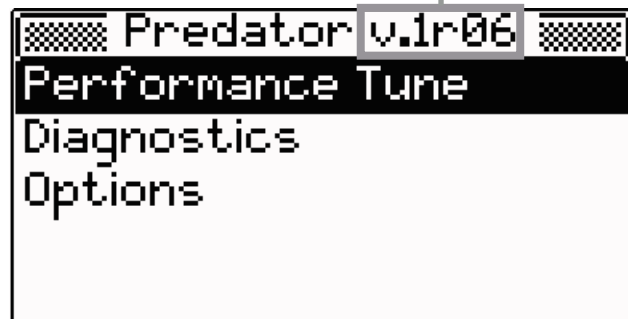
**Vehicle not Supported:** "Visit [www.DiabloSport.com](http://www.DiabloSport.com) for your free update. Click Downloads and select your part number or make,model and year, for instructions. Press enter to view your CALID."

The program in your pcm does not match the programs supported by the Predator, please write down your 17 digit VIN (vehicle identification number) and calid (found in Diagnostics>>Troubleshooting>>Show calid) then contact DiabloSport or go to **[www.DiabloSport.com](http://www.DiabloSport.com)** then click on downloads, select your vehicle type or select part number.

The following page contains the latest updates (CROM file) , instructions and PC application for the update. Look at the revision number on the web and if your Predator has another revision than what is on web site, you should update your Predator. See How to Update your Predator in the manual for more information. NOTE: Ensure you have the right part number for the Predator and that your vehicle is supported by that part number.

**How to identify the revision of Predator:** Allow the Predator to boot to the main screen where you see Performance Tune. At the top of the screen you will see, Predator v.xrxx, the number after "Predator v.xr" is your revision number.

Revision of Predator.



## Troubleshooting

**What to do if write fails:** If for any reason the write process fails, please ensure that the battery is fully charged, the proper fuses have been pulled and all aftermarket electronic accessories are turned off. Then follow the prompts in the Predator to restore the vehicle back to its original calibration. If this process fails, please contact us at 561-908-0040. We will need you to be in the vehicle with the Predator during this process. Please ensure you are able to do so before contacting us.

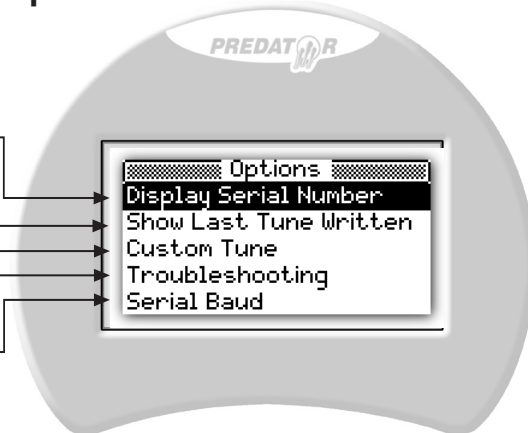
**Invalid License:** This message means that the original backup that is stored in the Predator does not match the program that is in the vehicle. The most common cause for this error is when the performance program is left in the vehicle when taken to a dealer and the dealer re-flashed the vehicle's ecu. If this happens, the Predator will ask to take a new copy of the original backup so you will have the latest updates as a new backup, once backup is complete you can use the Predator as usual again.

**Could not see Ignition ON:** Ensure ignition is turned to the ON position with the engine not running.

### 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 = Displays 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 = Displays the hex code on the vehicle

Show VIN = Shows vehicles VIN number

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

Restore Original Backup = Restores the Original Backup 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, this is so the Predator will look for supported PID's for the new vehicle.

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

## How to update your Predator

### HARDWARE ITEMS

Before you begin, a serial cable and an AC to DC power adapter must be obtained. DiabloSport offers both of these items in a package that can be obtained through any authorized DiabloSport dealer. The part number for this item is U7777. Alternatively, these items can be purchased locally from any Radio Shack or similar electronics retailer. The descriptions, part numbers and recommended source for these items are presented below.

#### 1) Serial Cable:

- For PC's with DB-9 serial communications port(s):

A standard, RS-232C, straight through, DB-9 male to DB-9 female cable is required to connect the PC to the Predator.

Recommended Source: Radio Shack part number: 26-117, 6-ft DB9 male to DB9 female shielded RS-232C cable

- For PC's with USB ports only:

If the PC only has USB ports available, a USB to RS-232C converter cable is required. This cable will convert a USB port to a serial port to connect to the Predator.

Recommended Source: Radio Shack part number: 26-183, 6-ft USB to Serial Port Adapter Cable

#### 2) Power Adapter:

The Predator requires a 12 Volt, 1 Amp power source to turn it on. An AC to DC power adapter allows the Predator to be turned on when not connected to the vehicle. The Power Adapter's plug tip is 2.5mm in diameter and 5.5mm in length. The required polarity is center contact is positive and the outer contact is ground.

Recommended Source: Radio Shack part number: 273-1776, 12V/1000mA AC to DC Power Adapter (This item includes a Plug Adapter. Please specify part number: 273-1717 to obtain the correct adapter.

\* Note: If the update will be performed with a laptop computer, the vehicle's OBDII port can be used to substitute for the Power Adapter.

### Before you begin:

Restore the "Original Backup" to the vehicle with the Predator. From the Predator's main menu select "Options" then select "Troubleshooting". In this menu you'll find "Restore Original Backup". Select this item and follow the on-screen prompts to return the vehicle to its stock configuration.

# Predator Update

## SOFTWARE DOWNLOAD

1) From the Downloads section of the DiabloSport webpage, save the “DS Downloader Installer” program to you PC’s Desktop. Run this file (double-click) to install the DiabloSport Downloader application on your PC. The installation program will launch upon completion of the installation. This is the software that will provide communications with the Predator.

| DS Downloader | Last Update | Revision | File                                               |
|---------------|-------------|----------|----------------------------------------------------|
| DS Downloader | 04-14-05    | 1.6.1    | <a href="#">DSDownloader_Installer (exe) 1221k</a> |

2) Save the appropriate Predator update file from the Downloads section below. Save this file to a known location on your PC’s hard drive. You can use the “Desktop”, or use the same folder created by the DiabloSport Downloader program installer.

\* Note: Files with a “.crom” extension are not recognized by Windows. Select “Save to Disk” at the Windows prompt. Do not select “Open With”.

| Predator Updates      | Last Update | Revision | File                                      |
|-----------------------|-------------|----------|-------------------------------------------|
| Release 50d (current) | 1-18-05     | r50d     | <a href="#">mustang-7r50d (crom) 613k</a> |

## REVISION UPDATE

1) Restore the “Original Backup” to the vehicle with the Predator. From the Predator’s main menu select “Options” then select “Troubleshooting”. In this menu you’ll find “Restore Original Backup”. Select this item and follow the on-screen prompts to return the vehicle to its stock configuration.

2) Connect the Predator to the PC with the serial cable. Do not connect the power supply at this time.

3) Launch the DiabloSport Downloader program that was previously installed, if it is not running already.

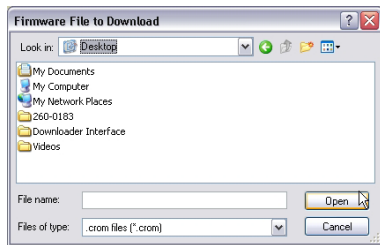
4) Set the communications settings on the DiabloSport Downloader program to “Com1” and “115200”.

|      |         |      |
|------|---------|------|
| File | Options | Help |
| COM1 | 115200  |      |

5) Select the “Send CROM File to Predator” button. A “Firmware File to Download” window will appear prompting you to select the revision update file (Crom file) that is to be sent to the Predator.

Send CROM file to Predator

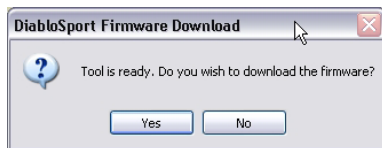
## Predator Update



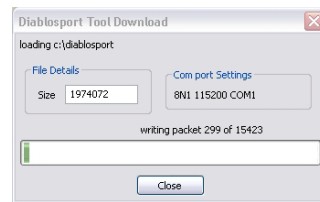
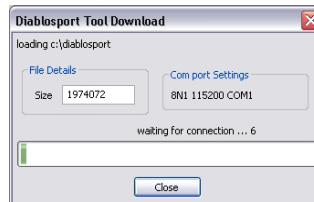
6) Select the appropriate file and then select the “Open” button. The software will then prompt you to “Please Power Cycle the Predator”.



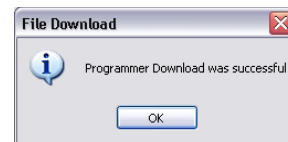
7) Connect the AC to DC power supply connector to the Predator. If the vehicle will be used to supply power the Predator, connect the Predator’s OBDII cable to the OBDII connector, at this time. The software will then prompt the following message: “Tool is ready. Do you wish to download the firmware?” Select “Yes” to begin the update process.



8) There will be an initialization period and then the software will begin to send the revision update to the Predator.



9) When done the software will present the following message: “Programmer Download was Successful”. Select “OK” and allow the Predator to restart. Verify the correct revision now appears at the top of the main menu of the Predator.

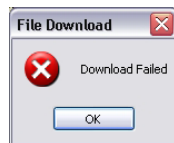


10) This completes the process. Disconnect the cable and power supply from the Predator. You can now connect the Predator to the vehicle to install the DiabloSport Tune.

# Predator Update

## ERROR MESSAGE

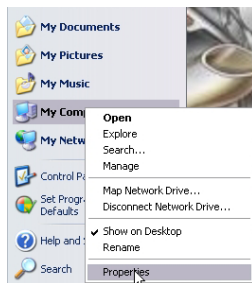
### 1) "Download Failed"



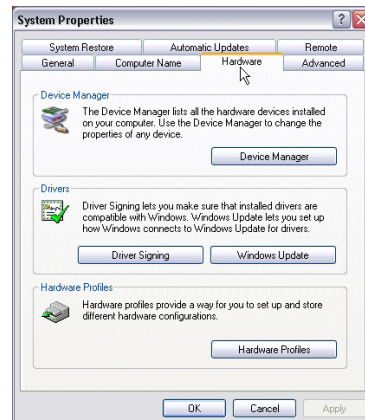
- The likely cause for this message is mismatched Com port and speed settings. These settings are at the top left-hand area of the DiabloSport Downloader software. Generally, if the PC has a 9-pin serial port it will be configured to be "Com1". The PC may have more than one 9-pin serial port and therefore may have a "Com2" in addition to a "Com1".

- If you are using a USB to serial port adapter cable, verify the com port that was assigned to the adapter cable through the Windows Device Manager tool. These cables are generally configured to "Com4" or higher, by the manufacturer supplied installation program of the adapter cable.

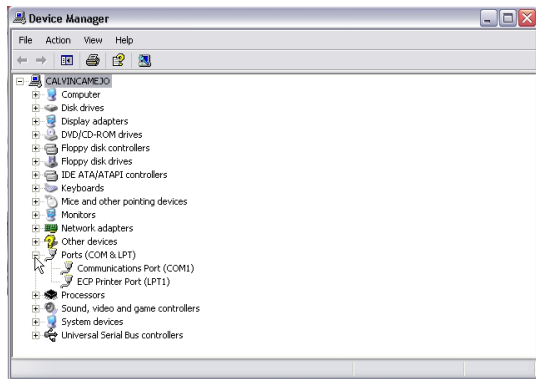
To verify the settings:- From the Windows Start menu, move the mouse pointer over "My Computer" and press the right mouse button. From the pop-up menu that appears select "properties".



This will start the System Properties utility

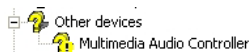


- Select the Hardware tab at the top of this window and then press the Device Manager button. An alphabetical listing of the hardware in the PC will be presented



- The USB to serial adapter cable will be listed under "Other Devices" or "Ports". Press the "+" sign in the box to the left of the item to expand the list of devices in that group. The com port number that was assigned to the cable will be shown in parentheses, to the right of the entry.

- If there is a yellow question mark shown to the left of the item, the software drivers for the USB cable were not properly loaded



The USB to serial cable should have come with these drivers on a diskette or CD. Note that the adapter cable must be connected to the PC to view its configuration.

- Double-clicking the Communications Port item will open the Properties for this port. Under "Port Settings" set the speed to 115200. The rest of the items should be left at their default setting.
- In general the correct speed setting for the DiabloSport Downloader program will be "115200Kbps".

Please contact us with any questions or comments at (561) 908-0040 and request Technical Support.



Notes:

DIABLOSPORT

**DURAMAX DIESEL**

