



Predator Revision Update Instructions

(for Trinity, please see Trinity Update Instructions):

PREP:

NOTE: DSDownloader does not work with Belkin brand USB-serial cables

Purchase

From:

<http://www.diablosport.com>, click **Products**, then **Online Store**

-buy part #U7778 for PCs that have USB ports, OR U7777 for PC's that have a serial port

OR

from Radio Shack, Best Buy etc:

-USB to Serial cable OR a straight 9-pin Serial/Serial cable

and a

-12 v 1 amp power cable, center pin is positive

Download the Software:

Go to <http://www.diablosport.com>, click **Support**, then **Downloads**, enter **Vehicle Type** or **Predator Part number (U71##)**:

Tip: Make sure to download all files by right-clicking the link and selecting "save as", then put the file on the Desktop before hitting "save"

Driver Programs

The Driver program allows the tool to communicate to the computer through the data cable. USB/Serial cables contain a microchip and the driver simply controls it.

If you are using a USB/Serial cable: Make sure to download the appropriate driver for your version of Windows under "**DiabloSport USB Serial Drivers**". For Windows 7 download

the one titled "**PL2303_Prolific_DriverInstaller_v110.exe**", or under "**Old Prolific Drivers**" choose the one specific to your version of Windows.

In most cases, the driver will not work until the computer is rebooted. Once you have installed the DSDownloader, installed the driver program and RESTARTED your computer, you may proceed to the first step in the instructions.

If you are using a straight serial/serial cable, you don't have to install a driver program and reboot the computer. Just install the DSDownloader as described below.

The DSDownloader program

This manages the transfer of information from a computer to a Diablosport tool. Download and run the installer program in the in the red link titled, "**DS Downloader Installer 2.2.1.7.exe**".

Tips When running the DSDownloader Installer Wizard

1. Microsoft will tell you "The Publisher could not be verified". This is normal, just click 'Yes'.
2. Before the install begins, it will also give you the option to Create Desktop Icon. Make sure to check this box if you want to have the DSDownloader in a convenient place.
3. The DSDownloader will also want to install the Trinity driver program. You can let it install if you want, or cancel it. It's not used for the Predator.
4. You can also delete the installer programs from your Desktop once the actual programs themselves are installed to avoid confusion.

RESTORE ORIGINAL BACKUP TO THE VEHICLE BEFORE UPDATING THE TOOL

Updating the Predator to the Current Revision

1. On the tool select OPTIONS/SHOW LAST TUNE WRITTEN. It must read 'Original Backup'. If it does not, you must return the vehicle back to stock. This is accomplished by connecting the tool to the vehicle, selecting Performance, then 'Original Backup' as the tune to install, thus returning the PCM back to stock. If you are unable for whatever reason to restore the stock tune to the vehicle, please

contact technical support at 561-908-0040 prior to attempting to update the tool.

2. Power up your Predator and connect it to the PC.

3. Launch the DSDownloader from the desktop icon (looks like our logo on a white background).

4. Once DSDL opens up, you'll see a screen that prompts you to select the tool communication configurations. Select tool type (Predator) and its part number, and then click "Accept Modifications".

5. At this point, DSDL will start searching for your tool on the COM ports. Once it finds the tool, you'll get a pop up that states the "tool was found on COM # at a baud rate of 115200", and the screen of the tool will read "The tool is now under remote control". Click 'close' on the window to proceed.

NOTE: If the DS Downloader will not connect to the tool, reference the **Driver Troubleshooting** at the end of these instructions.

6. DSDL will now take you to the Express Tune tab. From here, click the 'Update Tool' button.

7. Now you'll see a 'firmware file to download' window. Browse to where you saved the .crom file (hopefully the desktop) and select it, then click "Open".

8. A new window will appear titled 'DiabloSport firmware download', asking you to power cycle the tool to continue. Unplug the unit from the power source and plug it right back in.

9. Once the unit powers back up, the DSDL will see the power up message and tell you that 'the tool is ready, do you wish to download firmware?', click 'Yes', and the DSDownloader will send the crom file to the tool.

10. The DSDownloader will show you the file transfer status. Once the transfer is complete, a message will appear stating 'download complete' At this point, do not unplug the tool yet.

11. Watch the tool, it will reboot once the file has finished transferring. If it is a Predator, wait to see the new revision displayed at the top line of the main menu before unplugging it. At this point, you may take the tool to the vehicle and install the Performance tune.

NOTE TO CHRYSLER/DODGE OWNERS:

If you get a message that reads "this vehicle needs an update, Download here www.diablosport.com/dcx", DON'T PANIC. This is because the tool wants to update the vehicle's stock calibration file, not because the tool itself needs an update. Just bring the tool back to the computer, and follow the instructions titled, "DCX Vehicle Update Instructions-Tuner Already Updated".

Driver Troubleshooting:

If the DS Downloader program searches but does not find the tool:

For XP:

Right click 'My Computer'/PROPERTIES/HARDWARE/DEVICE MANAGER/double-click PORTS/ then find the line describing the cable (Prolific USB, Radio Shack whatever...) and double-click it, under DEVICE STATUS it has to read 'This device is working properly' to insure that the driver program is installed.

For Vista:

The procedure is the same as XP, but you can click right to 'DEVICE MANAGER' after right-clicking on the 'Computer' icon.

Note about Vista: if the Device Status reads 'This device cannot start Code 10', that is an issue with Windows and you will have to have someone diagnose the problem (like the Geek Squad or equivalent), or try another computer. However, sometimes uninstalling and reinstalling the driver program will solve this issue.

For Windows 7:

Click the Start Menu and select 'Control Panel', then Device Manager, and find the line describing the cable (Prolific USB, Radio Shack whatever...), double-click it, and under DEVICE STATUS it has to read 'This device is working properly' to insure that the driver program is installed.

OR

If your version of Windows 7 does not have a 'Control Panel' selection in the START menu, you can select 'Devices and Printers', and the port the cable is plugged into will be listed under the 'Unspecified' heading. Double-click that icon, then the 'Hardware' tab. The cable will be listed under 'Device Functions', double-click that line to see the Device Status. It should read 'This device is working properly' to insure that the driver program is installed.

If the driver program is installed (Device Status reads "Device is working properly") and the tuner is not connecting:

It is likely a bad cable or faulty USB port.

If you have any along the way, please contact our technical support at 800-531-5484 (option 1), visit our technical support forums at www.diablosport.com, or email support@diablosport.com.

-Tech Support