



DCX Vehicle Update Instructions

Follow these instructions if you get the message on your Predator that reads: “**This vehicle needs an update Download here: www.diablosport.com/dcx. This is because the tool wants to update the vehicle’s stock calibration file, *not necessarily* because the tool itself needs an update.** We have configured the Predator to be able to run the same update function as a dealership’s equipment, so that you do not need to bring it in to them when the update is required.

However, the tool’s firmware (the software that controls it) may still need an update first. To determine if the tool’s software is current, boot it up by plugging it in to power, and look at the code next to the word ‘Predator’ on the main screen, it will read “v.#r##”. Compare this to the most recent revision on the Downloads page for your Predator to see if the unit is current. If it is not, follow the instructions titled, “**Predator Revision Update Instructions**”.

PREP:

You Need

USB/Serial Cable and Power Cable #U7778 **OR** **Serial/Serial Cable and Power Cable #U7777**
(For new computers that only have USB ports) (Win-XP computers that have a serial port)



PC INTERFACE
KIT



PC INTERFACE
KIT

NOTE: These cables can also be purchased at Radio Shack, or any electronics supply store:

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

-12 v 1 amp power cable 2.5 x 5.5 mm jack, center pin positive.

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

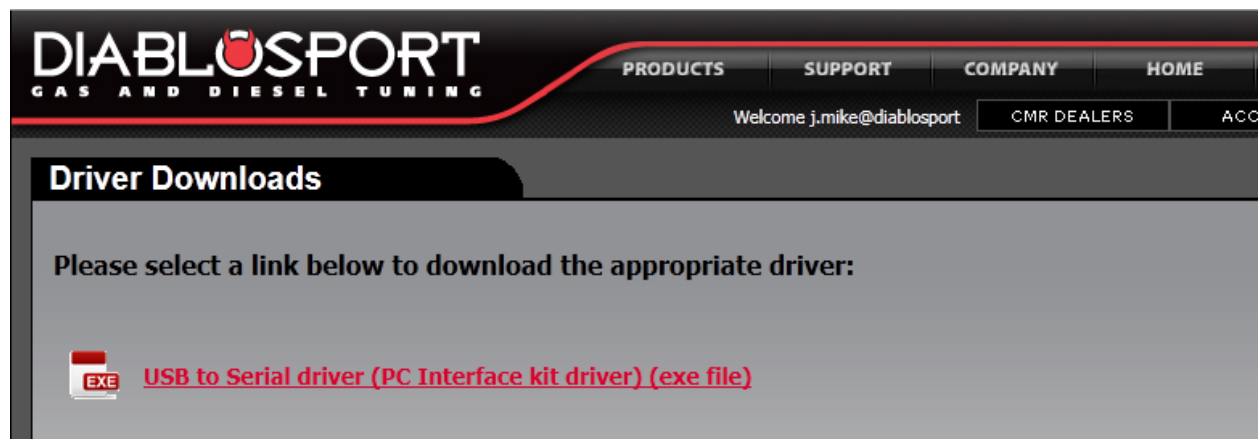
Downloading the Software

1. Driver Program

If you are using a USB/Serial cable (PN U7778)

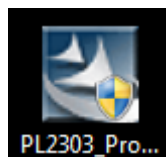
The **Driver** program allows the tool to communicate to the computer through the data cable. You can either run it off of the disc that came with your USB/serial cable kit, or download it at

www.diablosport.com/drivers (the version posted here works best with Windows 7 and Vista)

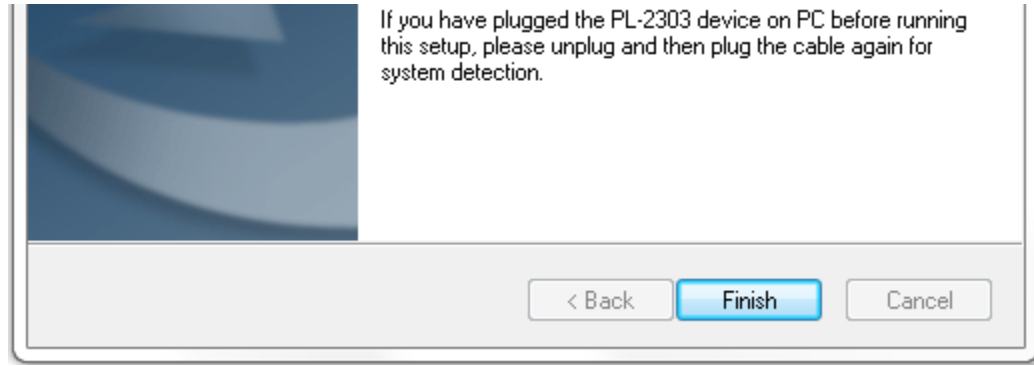


The screenshot shows the Diablosport website's "Driver Downloads" section. The header includes the Diablosport logo and navigation links for PRODUCTS, SUPPORT, COMPANY, and HOME. A user is logged in as j.mike@diablosport. The main content area is titled "Driver Downloads" and contains the instruction: "Please select a link below to download the appropriate driver:". Below this instruction is a red link with a small EXE icon: "USB to Serial driver (PC Interface kit driver) (exe file)".

- a. Download the file to the **Desktop** folder by right-clicking the red link titled **USB to Serial driver (PC Interface kit driver) (exe file)** and selecting "Save As". Once downloaded, click the new icon on the Desktop to begin the **Install Wizard**.



- b. **Follow all the prompts through the Install Wizard, and restart the computer after clicking the Finish button.**

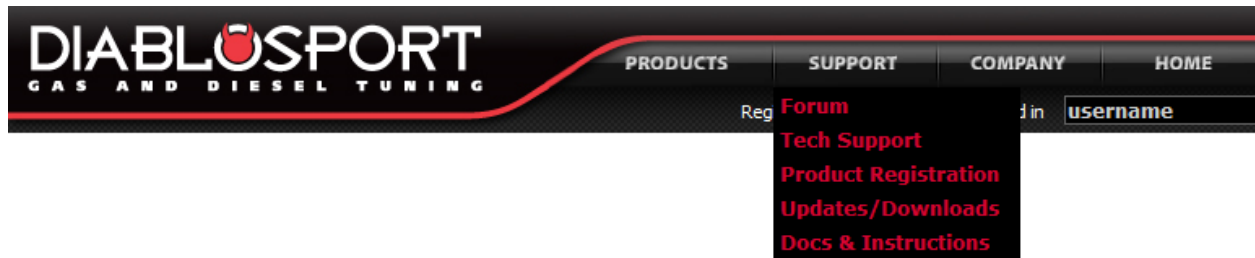


If you are using a straight serial/serial cable (PN U7777)

You don't have to install a driver program or reboot the computer. Proceed to **STEP 2**.

2.The DS Downloader Program

- a. Go to <http://www.diablosport.com> , click **Support**, then **Updates and Downloads**



b. Then, enter **Vehicle Type** or any **Predator Part number (U71##)**:



c. You will arrive at a page containing all the pertinent files for that Predator part number, but for this particular operation, you only need the DS Downloader installer file. Scroll down from the **Downloads** heading and look for the red link titled **“DS Downloader Installer”**.

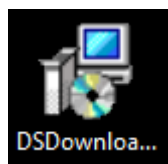
Downloads			
Predator Updates	Last Update	Revision	File
Release 9r08 (current)	03-18-2011	9r08	u7130_cummins-9r08.crom (1968k)
Release 9r04 (Custom tune import fix)	12-02-08	9r04	
Release 9r03 (Key count fix, Speed limiter adjustment, support for new calids)	09-17-08	9r03	
Release 9r02 (internal update)	07-24-08	9r02	
Release 9r01 (internal update, no changes made to functionality)	04-22-08	9r01	
Release 30 (support for new calids)	12-05-07	r30	
Release 29 (internal update, update if you have any	07-09-07	r29	

3. The DS Downloader Program

Download and run the installer program in the link titled, **“DS Downloader Installer:**

DS Downloader	Last Update	Revision	File
DS Downloader (Production version)	02-16-2011	2.2.2.5	DSDownloader_Installer 6385k

Tip: Make sure to download the file by right-clicking the red link and selecting “save as”, then put the file on the Desktop folder before hitting “save”. You can then double-click the new icon on your desktop to run it:

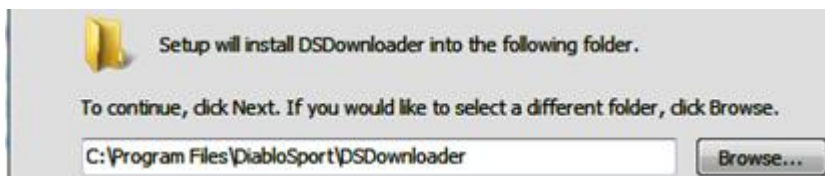


The **DS Downloader** manages the transfer of information from a computer to any Diablosport tool. If it does not launch automatically, open the Installer program from the newly created icon. Follow the prompts on the **Setup Wizard** to install it.



Tips When running the DSDownloader Installer Wizard:

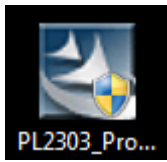
1. Microsoft will tell you “The Publisher could not be verified”. This is normal, just click ‘Yes’.
2. After agreeing to the terms, the DSDL Installer will ask you to Select the Destination Folder, and it will default to here:



Just continue through it, unless you want it to go to install in another folder.

3. The DSDownloader will give you the option to install the Trinity driver program. The Trinity driver program is not used for the Predator, so you can uncheck that box if you don't own a Trinity.
4. Before the install begins, it will also give you the option to create a Desktop or Quick Launch Icon. Make sure to check one of these boxes if you want to have the DSDownloader in a convenient place.

5. You can also delete the installer program icons from your Desktop, once the actual programs themselves are installed, to avoid confusion.



Uploading the Calibration Update

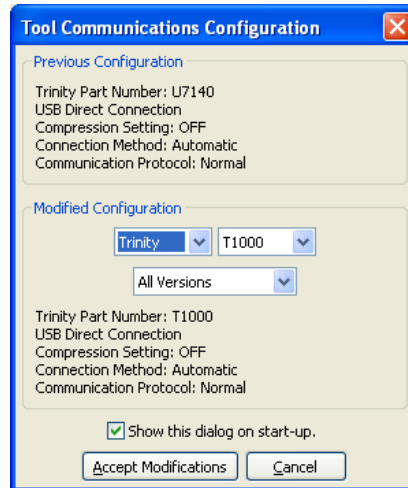
1. Power up your Predator with AC power adapter if it is not already, and connect it to your home computer with the serial cable at the bottom of the Predator.



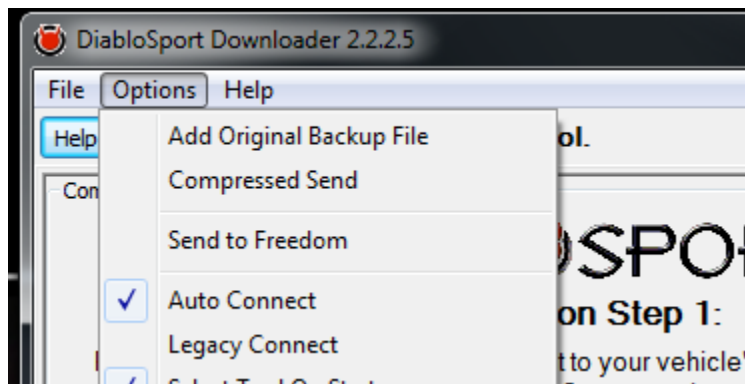
2. If the **DS Downloader** did not launch automatically after it was installed, double-click the newly created icon on the **Desktop** or your **Start** menu.



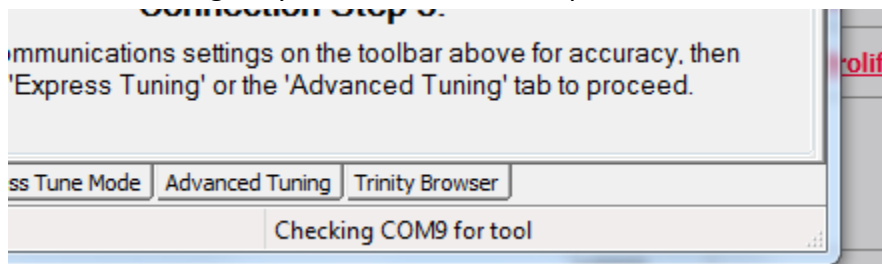
3. a) The first screen of the DS Downloader is a window that prompts you to select the **'Tool Communication Configuration'**. Select tool type (Predator) and its part number, and then click **'Accept Modifications'**.



- b) Select the **'Options'** dropdown menu on the DS Downloader window, and make sure that there is a check mark next to **'Auto Connect'**.



4. The DSDownloader will start searching for your tool on the **COM** ports.



Once it finds the tool, the "Checking COM# for tool" message will disappear. NOTE: If the DS Downloader will not connect to the tool, reference the Driver Troubleshooting at the end of these instructions.

5. If the software detects that you need a Calibration Update or Downgrade, you will see a new tab at the bottom of the application labeled "Calibration Update".
Select the Calibration Update Tab, and then look for a button that says "Calibration Updater". Click that button.
6. Once this is done, unplug your Predator and bring it to the vehicle. Plug the cable into your OBDII port and select the Performance menu. The tool will first ask for permission to proceed with the Calibration Update, press the center button to continue.
7. After the Calibration Update is complete, you can proceed with flashing a Performance or Custom tune to the vehicle.

Driver Troubleshooting:

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

(All of the below are with the USB cable plugged in to the PC)

For XP:

From the **Start** menu of Windows right click the '**My Computer**' icon and select **Properties** then the **HARDWARE** tab and then the **DEVICE MANAGER** button. You will see a list of all the computer's devices.

Double-click the line that says **PORTS**, then find the line describing the cable (Prolific USB, Radio Shack whatever...) and double-click it to open the '**Properties**' window for that line.

Under **DEVICE STATUS** it has to read '**This device is working properly**' to insure that the driver program is installed.

For Vista:

From the **Start** menu of Windows select '**Control Panel**' and then the **DEVICE MANAGER**. You will see a list of all the computer's installed devices.

Double-click the line that says **PORTS**, then find the line describing the cable (Prolific USB, Radio Shack whatever...). The cable may also be under the heading of '**Other Devices**' Double click

the line of the cable. Under **DEVICE STATUS** it has to read '**This device is working properly**' to insure that the driver program is installed.

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. If you were loading the driver off of the disc, try using the driver posted at www.diablosport.com/drivers . Sometimes uninstalling and reinstalling the driver program will solve this issue.

For Windows 7:

The easiest way to get to the **Device Manager** in Windows 7 is to click the **Start** menu of Windows and select '**Devices and Printers**'. The port the cable is plugged into will be listed under the '**Unspecified**' heading as an icon. Double-click that icon, then the '**Hardware**' tab. The cable will be listed under '**Device Functions**', double-click that line to open the **Properties** window and 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 561-908-0040 (option 1), visit our technical support forums at www.diablosport.com (click Support then Forums), or email support@diablosport.com.

-Tech Support