

Delphi Trim Code File Loader Program - How To ...

Delphi

Trim Code Upload Software

[Download Software](#)[Purchase License](#)

Follow These Steps

1. Download the complete "How To" guide

2. Download ECM serial number GrabIt program

3. Connect laptop & NEXIQ to vehicle diag port


4. Run GrabIt to obtain ECM serial number

5. Download Trim Code Upload Software

6. Purchase license from website

7. Connect laptop & NEXIQ to vehicle diag port


8. Start Delphi trim loader .exe file



Questions? Delphi Support is here to help.
1.800.521.4784
dieselsales@delphi.com

Why Trim Codes Are Important

- Machine tolerances may cause slight differences between injectors and effect fuel delivery. Variations in timing and flow may lead to decrease in engine performance.
- Unique Trim Codes for each injector tailor their performance to the optimum specifications.
- Delphi Remanufactured Injectors are supplied with a unique trim code, located on a CD-ROM disc, to tailor each injectors output.
- Using the Delphi Trim Code Software to enter the new unique trim code provided into the engine ECM helps ensure proper engine performance.



Trim code files are now supplied on a USB flash drive.

[Download Complete "How To" Guide](#)[Download GrabIt Program](#)

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Important Notes

This program has been validated to be used on applications that can accept a Delphi reman injector or equivalent. If you have Caterpillar® Electronic Technician (Cat® ET) or another program that can upload trim code files, you do not need this program. To purchase a license to use the Delphi Trim Code File Loader program you will need to know the serial number of the engine ECM. To obtain the ECM serial number first download and run the Grabit program. The program will have limited functionality giving you visibility to the engine ECM serial number even though the license number hasn't been purchased.

The following required items must be installed before running the program to upload a trim code file:

- PC with at least 2GB RAM
- NEXIQ™ USB Link or USB Link 2 with driver installed (from NEXIQ™ web site)
- Delphi Trim Code File Loader program license purchased.

Downloading the Grabit and Delphi Trim Code File Loader Programs

Click on the appropriate icons from the Delphi web site to download the **Grabit** and **Delphi Trim Code File Loader Programs**.

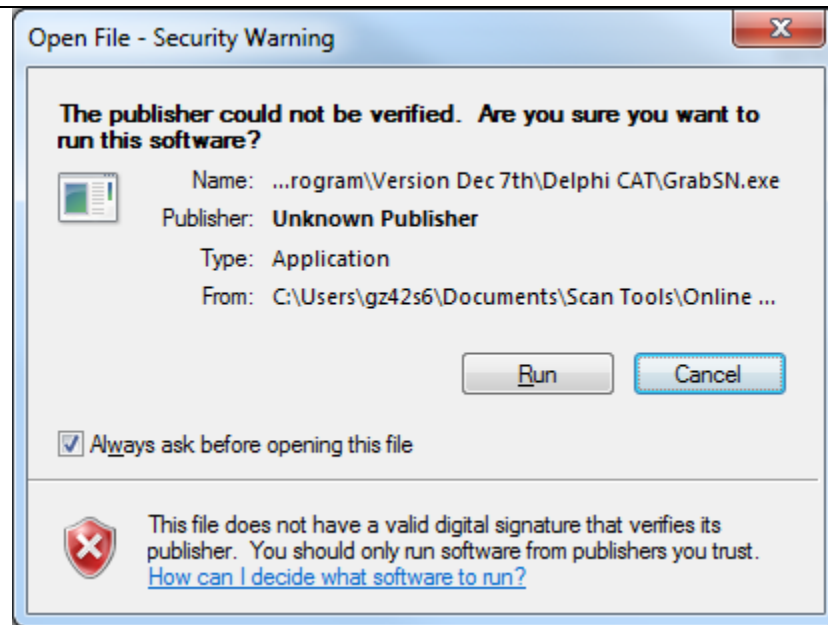
Note: The file only needs to be downloaded once and can be reused. In future if there are any program revisions, it may need to be re-downloaded.

Running the Program to view the engine ECM serial number

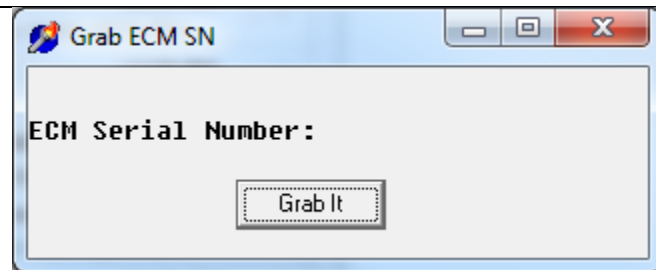
Note: Before running the program ensure that your laptop computer is connected to the vehicle through the NEXIQ™ interface box. You do not need to have an internet connection at this time.

Click on the file: **GrabSN.exe**

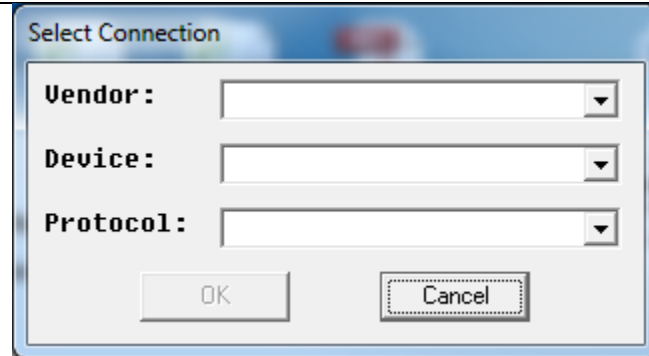
If this screen appears, **click on Run.**



Once this screen appears **click on Grab It.**



On this screen make the appropriate selections from the dropdown boxes.



Select Connection

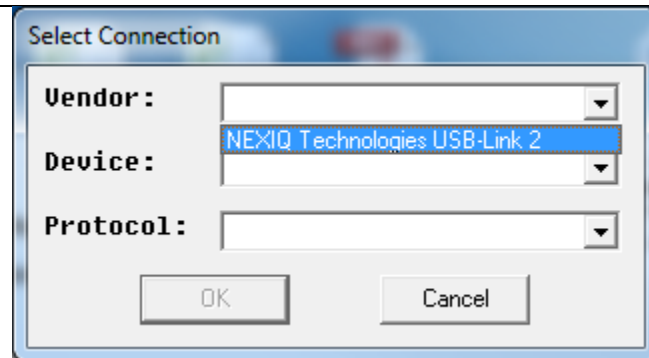
Vendor:

Device:

Protocol:

OK Cancel

In this example, for Vendor **click** on **NEXIQ™ Technologies USB-Link 2**.



Select Connection

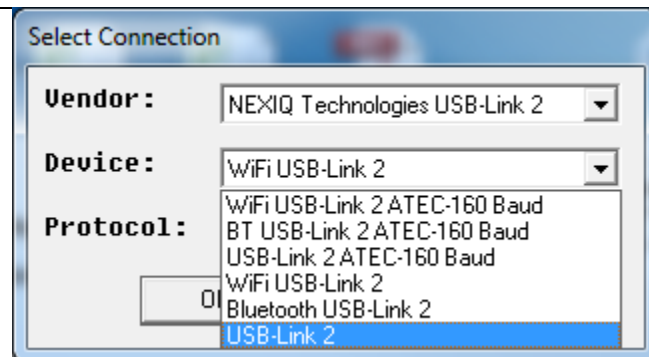
Vendor:

Device:

Protocol:

OK Cancel

Then **click** on the appropriate Device. In this example **USB-Link 2**.



Select Connection

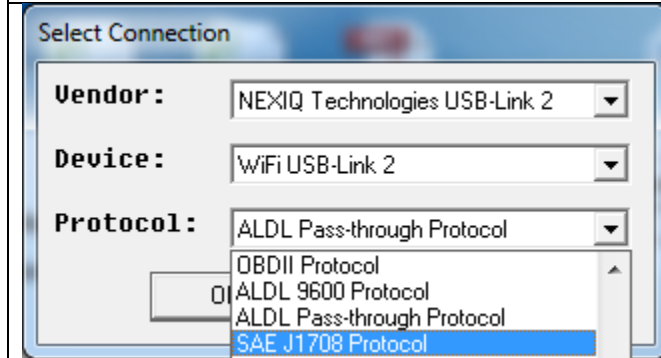
Vendor:

Device:

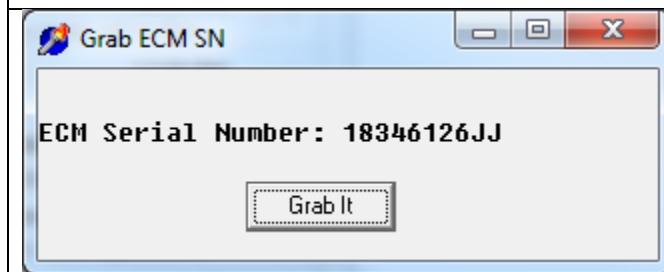
Protocol:

OK Cancel

Then **click** on the appropriate Protocol. In this example **SAE J1708 Protocol**.



The ECM serial number will now be visible. Make note of it and then **click** the **X** at the upper right corner of the window to close the program.



Purchasing the license number

Click on the appropriate icon from the Delphi web site to purchase a single ECM timed license. As part of the purchase process, you will need to key in the Engine **ECM serial number**. The purchase will be made utilizing PayPal. Note: You will receive an email acknowledgement of the purchase.

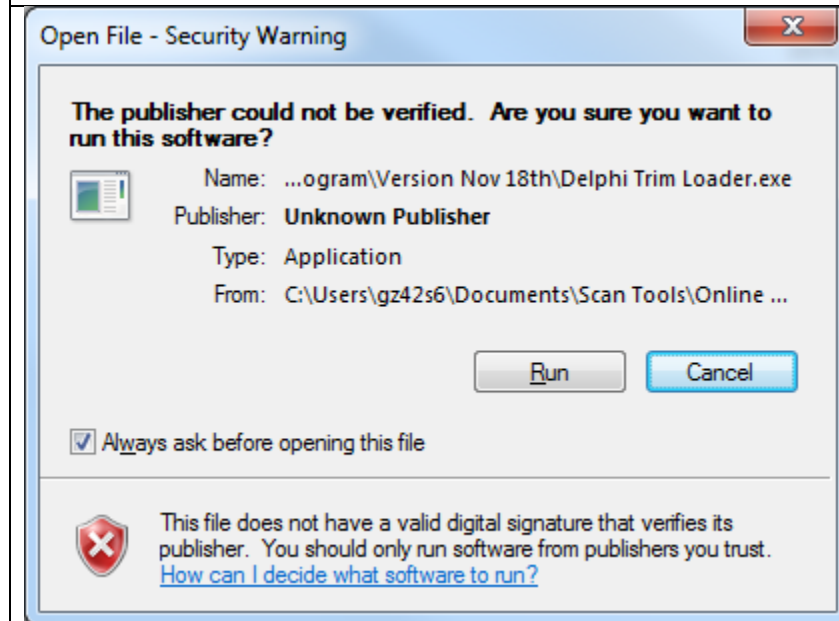
Running the program to upload trim code files to the engine ECM

Note: Before running the program to upload trim code files ensure that you have previously purchased the program license, are connected to internet, and that your laptop computer is connected to the vehicle through the NEXIQ™ interface box.

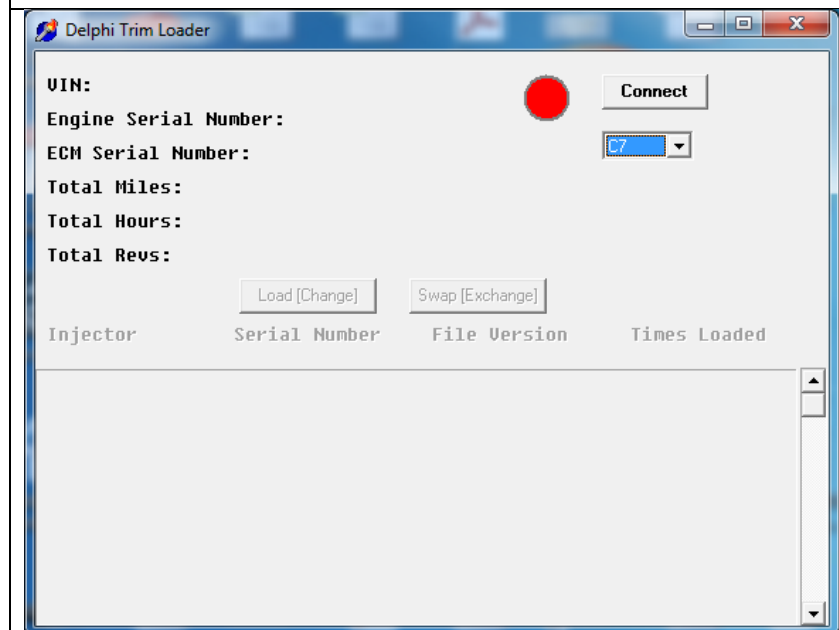
Click on the file: **Delphi Trim Loader.exe**

The program will search the online database to validate use of the program. If the sale took place within the last 3 months, the program will run, if no, it will say "There is no valid license file".

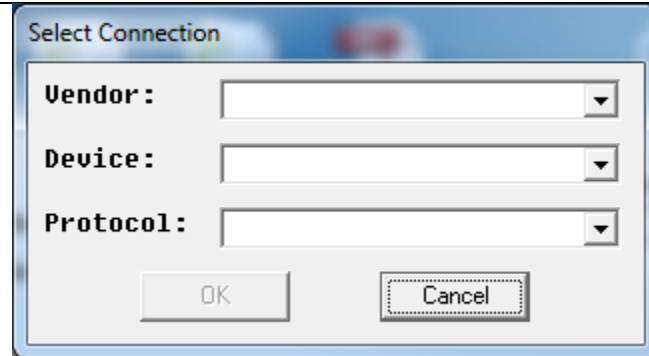
If this screen appears, **click on Run.**



Once this screen appears select the application from the dropdown box (C7, C13, or C15) then **click on Connect.** Note: The red dot indicates that the program is not currently connected to the ECM.

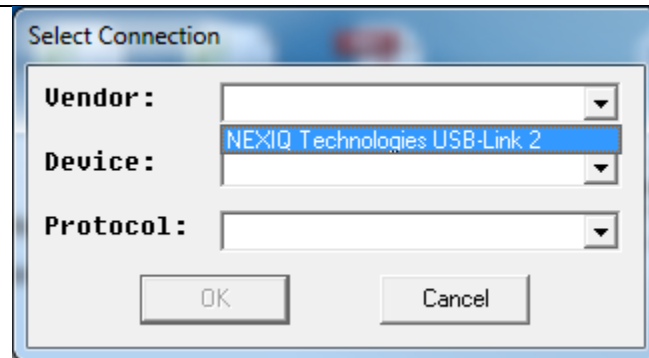


On this screen make the appropriate selections from the dropdown boxes.



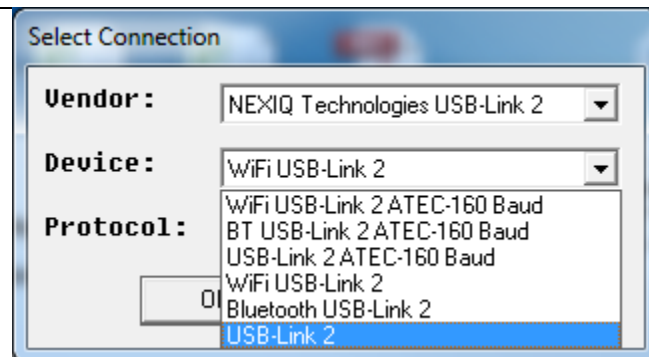
The image shows a 'Select Connection' dialog box with three dropdown menus labeled 'Vendor:', 'Device:', and 'Protocol:'. Each dropdown menu is currently empty. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

In this example, for Vendor **click** on **NEXIQ™ Technologies USB-Link 2**.



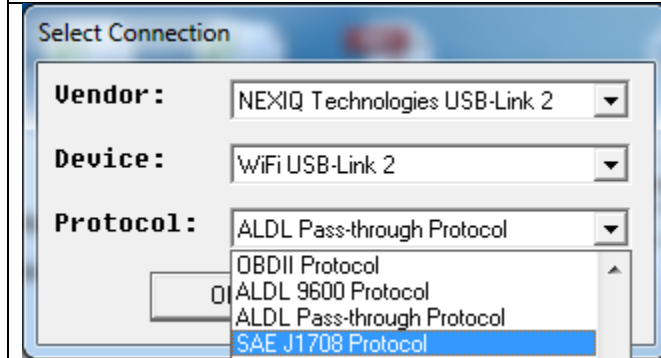
The image shows the 'Select Connection' dialog box. The 'Vendor:' dropdown menu is now populated with a list of options, and 'NEXIQ Technologies USB-Link 2' is highlighted in blue. The 'Device:' and 'Protocol:' dropdown menus remain empty. The 'OK' and 'Cancel' buttons are still at the bottom.

Then **click** on the appropriate Device. In this example **USB-Link 2**.

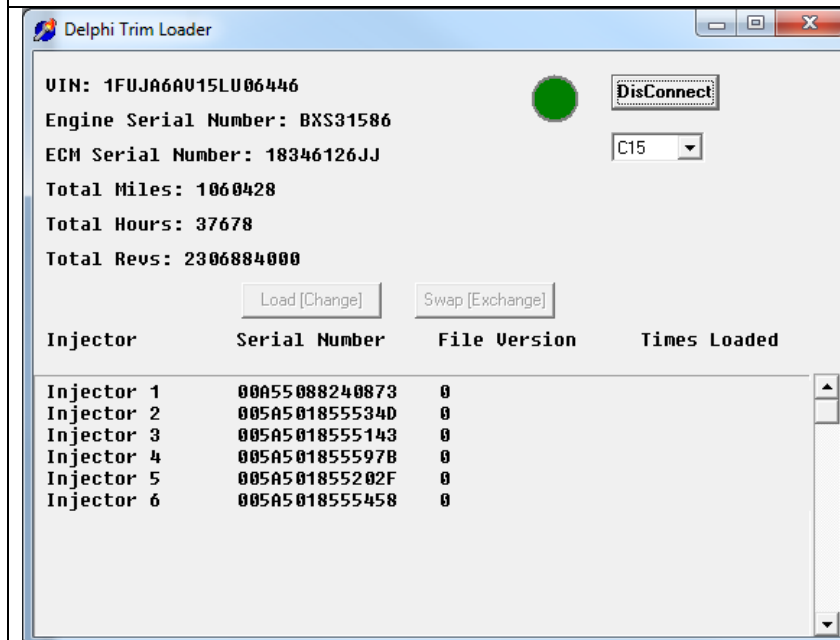


The image shows the 'Select Connection' dialog box. The 'Vendor:' dropdown menu is set to 'NEXIQ Technologies USB-Link 2'. The 'Device:' dropdown menu is now open, showing a list of options: 'WiFi USB-Link 2', 'WiFi USB-Link 2 ATEC-160 Baud', 'BT USB-Link 2 ATEC-160 Baud', 'USB-Link 2 ATEC-160 Baud', 'WiFi USB-Link 2', 'Bluetooth USB-Link 2', and 'USB-Link 2'. The 'USB-Link 2' option is highlighted in blue. The 'Protocol:' dropdown menu remains empty. The 'OK' and 'Cancel' buttons are still at the bottom.

Then **click** on the appropriate Protocol. In this example **SAE J1708 Protocol**.



The green dot indicates that the program has connected to the ECM. The serial numbers of the injectors currently loaded in the ECM will be listed. Note: The program may display more injector cylinder locations than your engine has, however, only refer to the number of cylinders appropriate for your engine. In this example, as it is a 6 cylinder engine only Injectors 1 through 6 have a serial number listed.



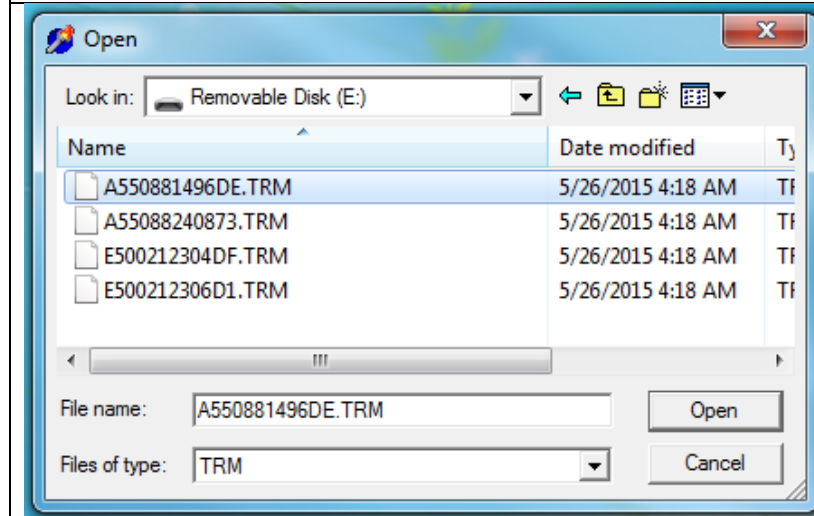
Click on the appropriate Injector/Cylinder location to select it, then Click on **Load(Change)**.

Injector	Serial Number	File Version	Times Loaded
Injector 1	00A55088240873	0	
Injector 2	005A50185534D	0	
Injector 3	005A5018555143	0	
Injector 4	005A501855597B	0	
Injector 5	005A501855202F	0	
Injector 6	005A5018555458	0	

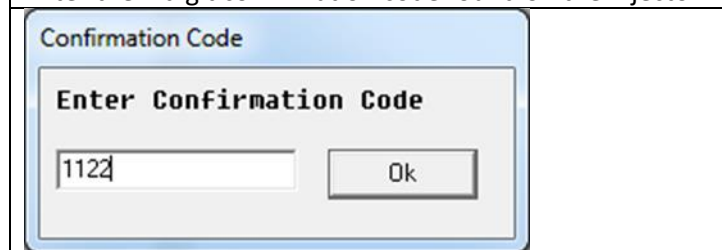
In this example Injector 1 (highlighted in blue) was selected.

Injector	Serial Number	File Version	Times Loaded
Injector 1	00A55088240873	0	
Injector 2	005A50185534D	0	
Injector 3	005A5018555143	0	
Injector 4	005A501855597B	0	
Injector 5	005A501855202F	0	
Injector 6	005A5018555458	0	

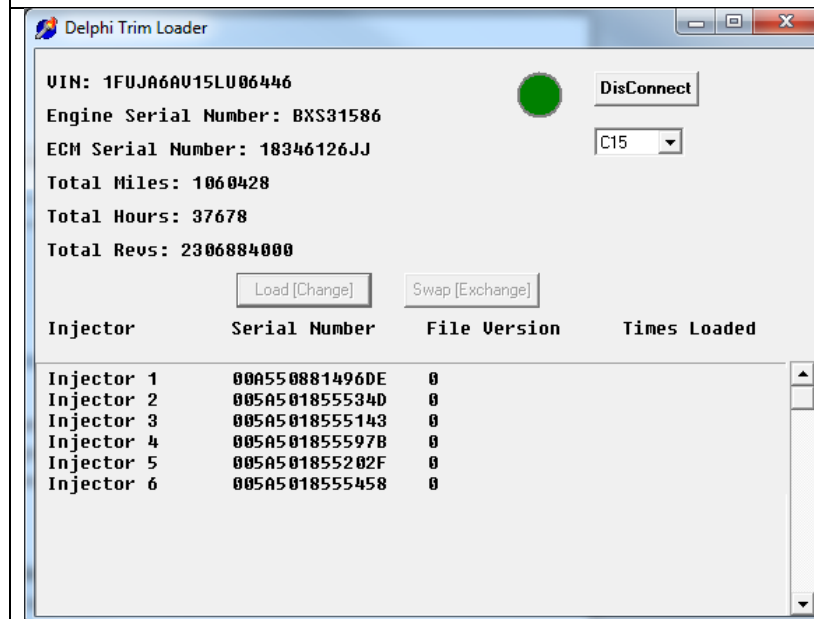
Select the location of the trim code file, then **click OK**.



Enter the 4 digit confirmation code found on the injector.



As shown below, the replacement injector serial number is now showing on the list.



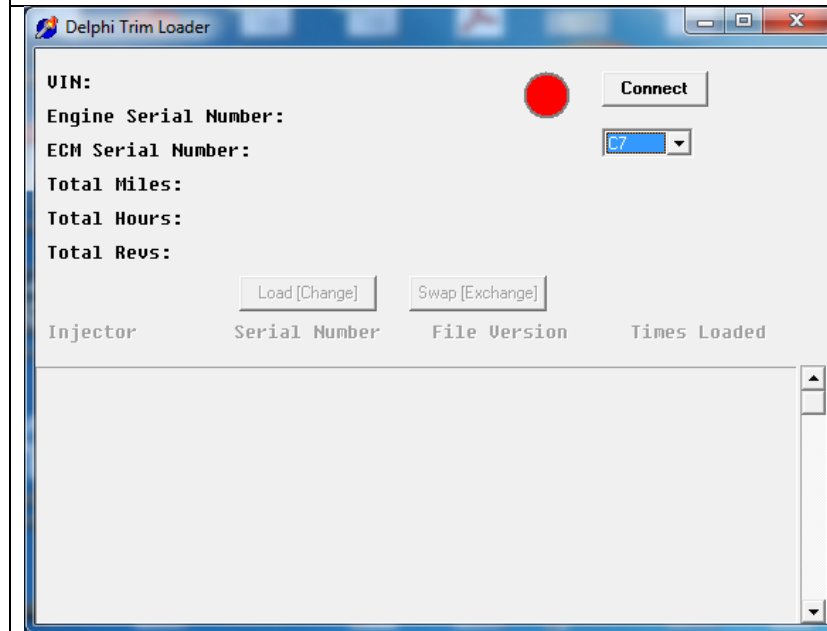
Running the program to swap injectors that are already installed between cylinders

Note: Before running the Delphi Trim Loader program to swap injectors between engine cylinders ensure that you have previously purchased the program license, are connected to internet, and that your laptop computer is connected to the vehicle through the NEXIQ™ interface box.

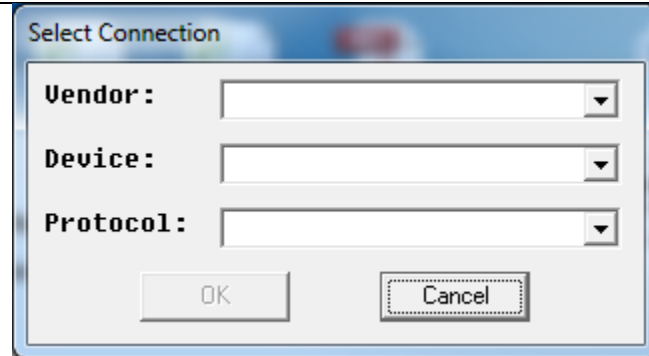
Click on the file: **Delphi Trim Loader.exe**

The program will search the online database to validate use of the program. If the sale took place within the last 3 months, the program will run, if no, it will say “There is no valid license file”.

Once this screen appears select the application from the dropdown box (C7, C13, or C15) then **click on Connect**. Note: The red dot indicates that the program is not currently connected to the ECM.

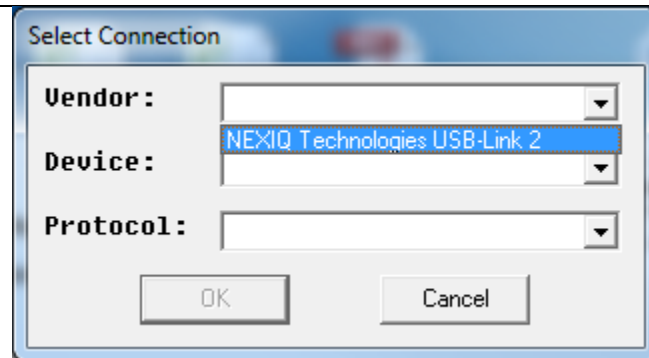


On this screen make the appropriate selections from the dropdown boxes.



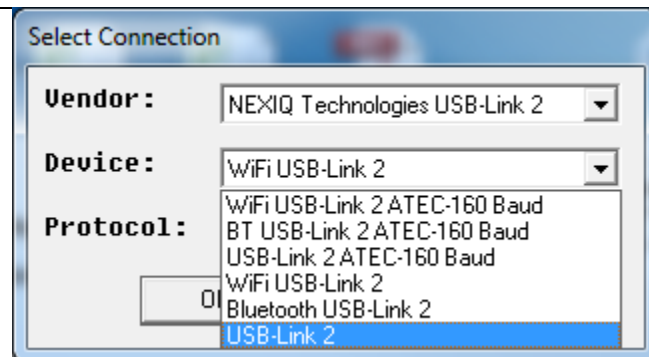
A screenshot of a 'Select Connection' dialog box. It features three dropdown menus labeled 'Vendor:', 'Device:', and 'Protocol:'. The 'Vendor:' dropdown is currently empty. Below the dropdowns are two buttons: 'OK' and 'Cancel'.

In this example, for Vendor **click** on **NEXIQ™ Technologies USB-Link 2**.



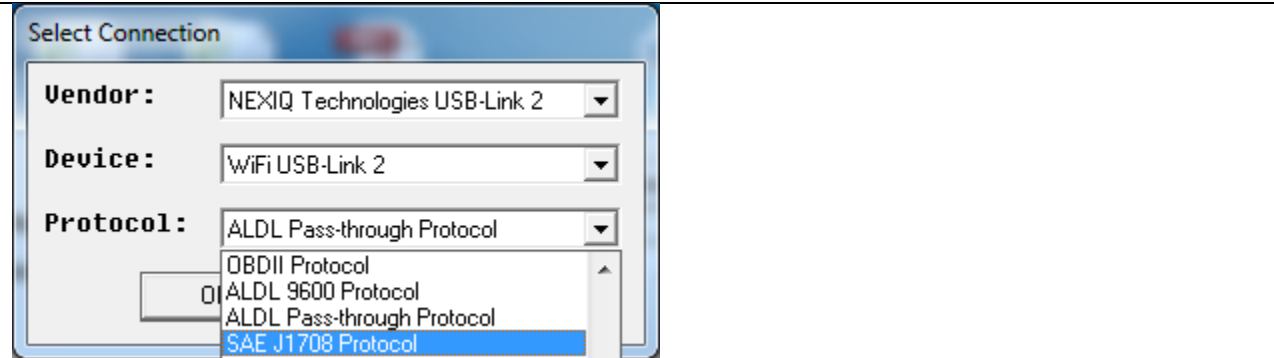
A screenshot of the 'Select Connection' dialog box. The 'Vendor:' dropdown menu is now populated with the text 'NEXIQ Technologies USB-Link 2', which is highlighted in blue. The 'Device:' and 'Protocol:' dropdowns remain empty. The 'OK' and 'Cancel' buttons are still present at the bottom.

Then **click** on the appropriate Device. In this example **USB-Link 2**.

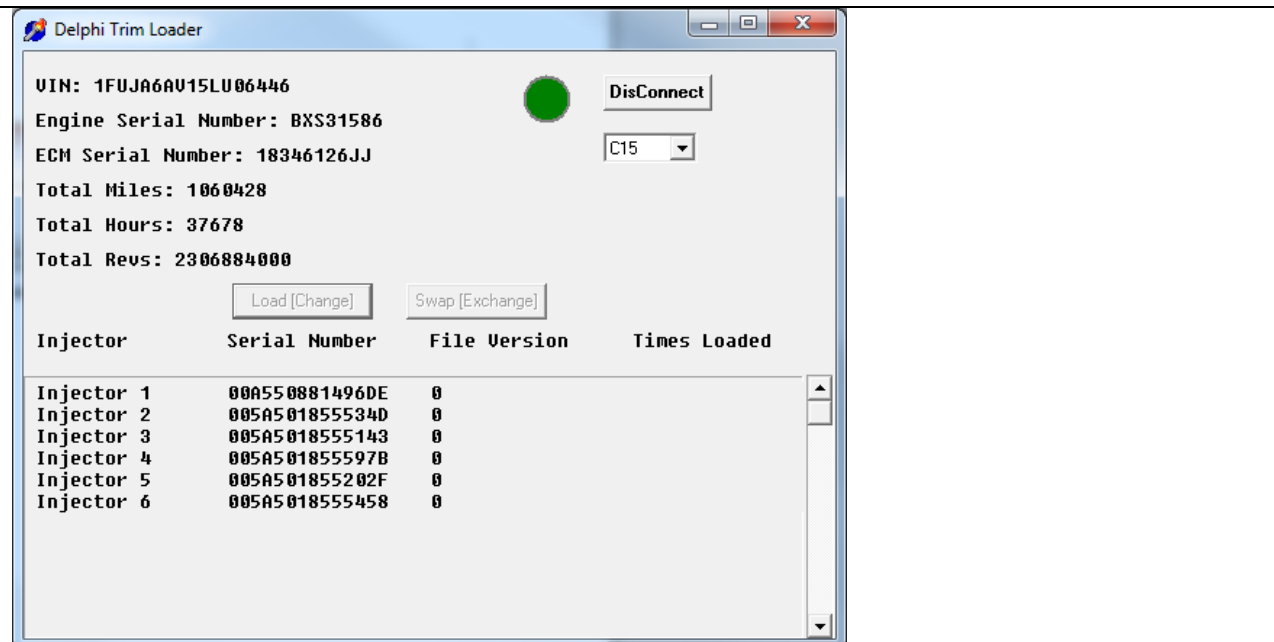


A screenshot of the 'Select Connection' dialog box. The 'Vendor:' dropdown is set to 'NEXIQ Technologies USB-Link 2'. The 'Device:' dropdown is now open, showing a list of options: 'WiFi USB-Link 2 ATEC-160 Baud', 'BT USB-Link 2 ATEC-160 Baud', 'USB-Link 2 ATEC-160 Baud', 'WiFi USB-Link 2', 'Bluetooth USB-Link 2', and 'USB-Link 2'. The 'USB-Link 2' option is highlighted in blue. The 'Protocol:' dropdown remains empty. The 'OK' and 'Cancel' buttons are at the bottom.

Then **click** on the appropriate Protocol. In this example **SAE J1708 Protocol**.



The green dot indicates that the program has connected to the ECM. The serial numbers of the injectors currently loaded in the ECM will be listed. Note: The program may display more injector cylinder locations than your engine has, however, only refer to the number of cylinders appropriate for your engine. In this example, as it is a 6 cylinder engine only Injectors 1 through 6 have a serial number listed.



Click on the appropriate Injector/Cylinder location to select it, then Click on **Load(Change)** or **Swap(Exchange)** depending on the required action.

VIN: 1FUJA6AU15LU06446
Engine Serial Number: BXS31586
ECM Serial Number: 18346126JJ
Total Miles: 1060428
Total Hours: 37678
Total Revs: 2306884000

DisConnect

C15

Load [Change] Swap [Exchange]

Injector	Serial Number	File Version	Times Loaded
Injector 1	00A550881496DE	0	
Injector 2	005A50185534D	0	
Injector 3	005A5018555143	0	
Injector 4	005A501855597B	0	
Injector 5	005A501855202F	0	
Injector 6	005A5018555458	0	

In this example Injector 1 (highlighted in blue) was selected.

VIN: 1FUJA6AU15LU06446
Engine Serial Number: BXS31586
ECM Serial Number: 18346126JJ
Total Miles: 1060428
Total Hours: 37678
Total Revs: 2306884000

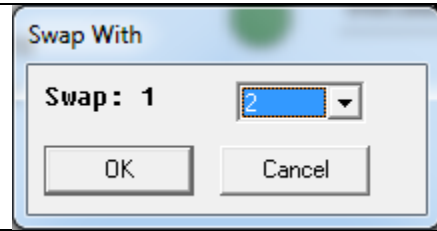
DisConnect

C15

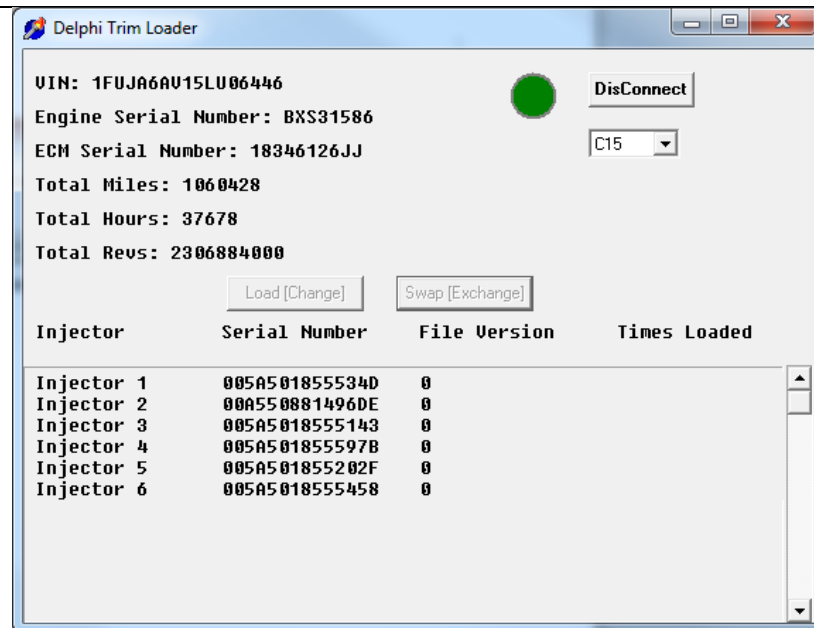
Load [Change] Swap [Exchange]

Injector	Serial Number	File Version	Times Loaded
Injector 1	00A550881496DE	0	
Injector 2	005A50185534D	0	
Injector 3	005A5018555143	0	
Injector 4	005A501855597B	0	
Injector 5	005A501855202F	0	
Injector 6	005A5018555458	0	

Select the new location to move the injector from the drop-down box then **click OK**. In this example cylinder 2 was selected.

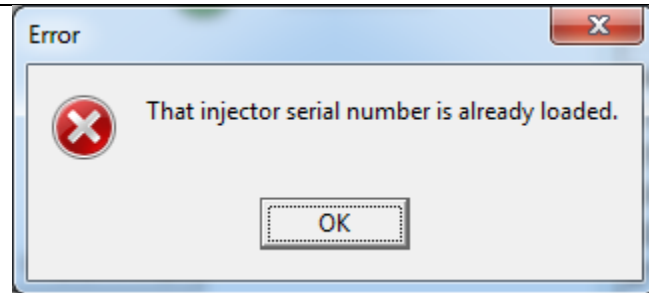


As shown below, the injector locations between 1 and 2 have been swapped.

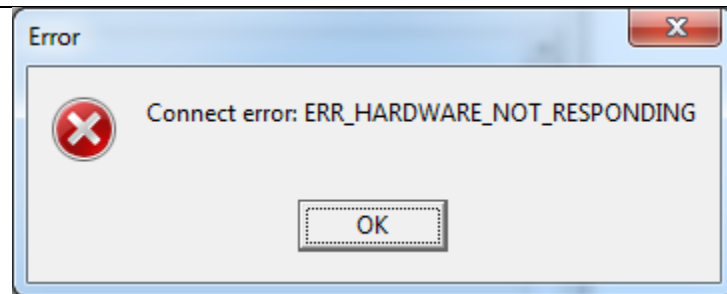


Troubleshooting

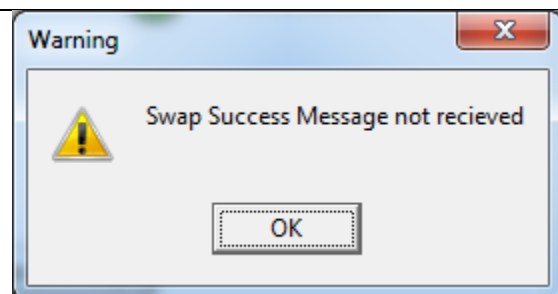
This error message is displayed if you try to load the same injector serial number in two different cylinders.



This error message is displayed if no ECM is connected. (Loss of power, Connection unplugged)



This message is displayed if you try to swap injectors with the engine running. Warning: Do not try to swap injectors with the engine running.

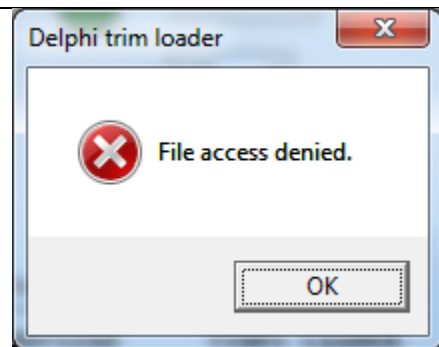


Note: If you try to load a trim code file with the engine running no error message will be displayed, however, it will not accept the file. No change will take place.

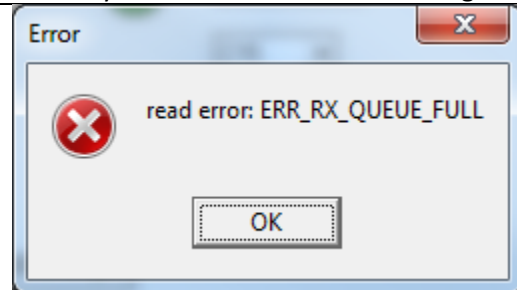
This message is displayed if it has trouble communicating during the load process. Try selecting the trim code file again. Also, this message will be displayed if you try to load a trim code file with the wrong application (C7 / C15) selected.



These messages are displayed if you try to load an incorrect trim code file.



You may also receive this error message.



This error message may be displayed if you do not have the latest driver installed or the latest firmware update for your NEXIQ™.



Contact Information

If you have any questions regarding the use of this program, contact the Delphi Diesel Technical Hot Line at (800) 521-4784, select option 2.