



Roush Diagnostic Tool Software Installation

rdt.roush.com

If you have already installed the RDT software, proceed to the “Retail Flash Procedure” on page 21.



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Roush Diagnostic Tool Software Registration and Download

Please enter all fields below and click on the <Submit> button below the installation notes

Email Address:

Verify Email Address:

First Name:

Last Name:

Title:

Contact Number:

Company:

Address:

City:

State:

Zip:

Installation Notes

- Enter “rdt.roush.com” into your web browser’s address bar and proceed to the website.



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http://rdt.roush.com/RoushRdt/

roush.com

File Edit View Favorites Tools Help

PeopleSoft IRIS Suggested Sites Web Slice Gallery

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Company:

Address:

City:

State:

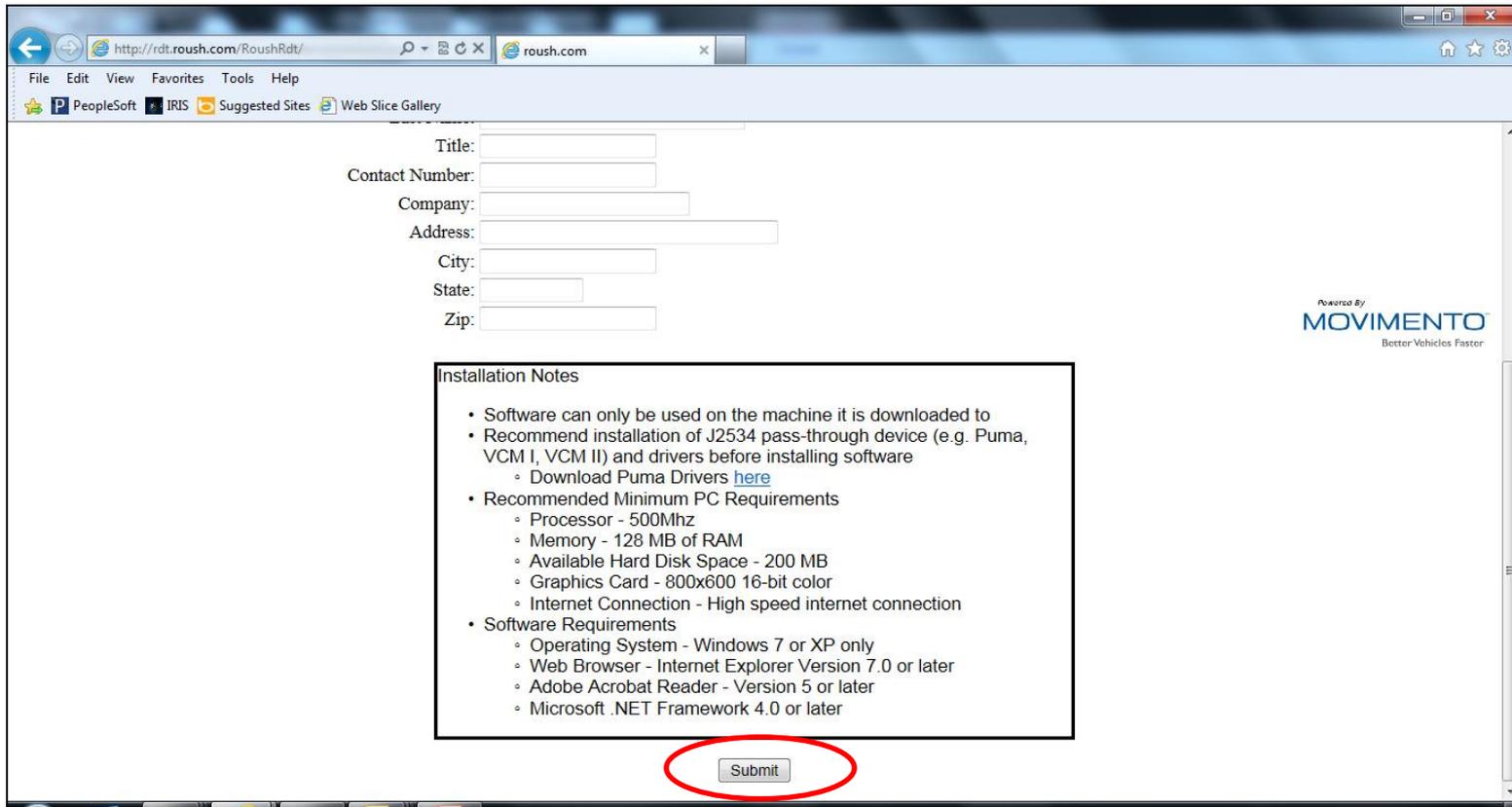
Zip:

Installation Notes

- Software can only be used on the machine it is downloaded to
- Recommend installation of J2534 pass-through device (e.g. Puma,

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- Enter your personal information into the appropriate fields.
- A unique software activation code will be sent to the email address provided. You may use the same email address for multiple activation codes.



- Scroll down to the installation notes.
- Confirm that your computer meets the system requirements and select “Submit”.
- **Note:** If you are equipped with a Puma PT J2534 device, drivers are available for download by clicking the “here” link in the Installation Notes. The drivers are only necessary if you are equipped with the Puma pass through device.



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Customer acknowledges that the SOFTWARE is technically complex and that it is not technically possible to guarantee that SOFTWARE works free of defects in any combination and application.

Print

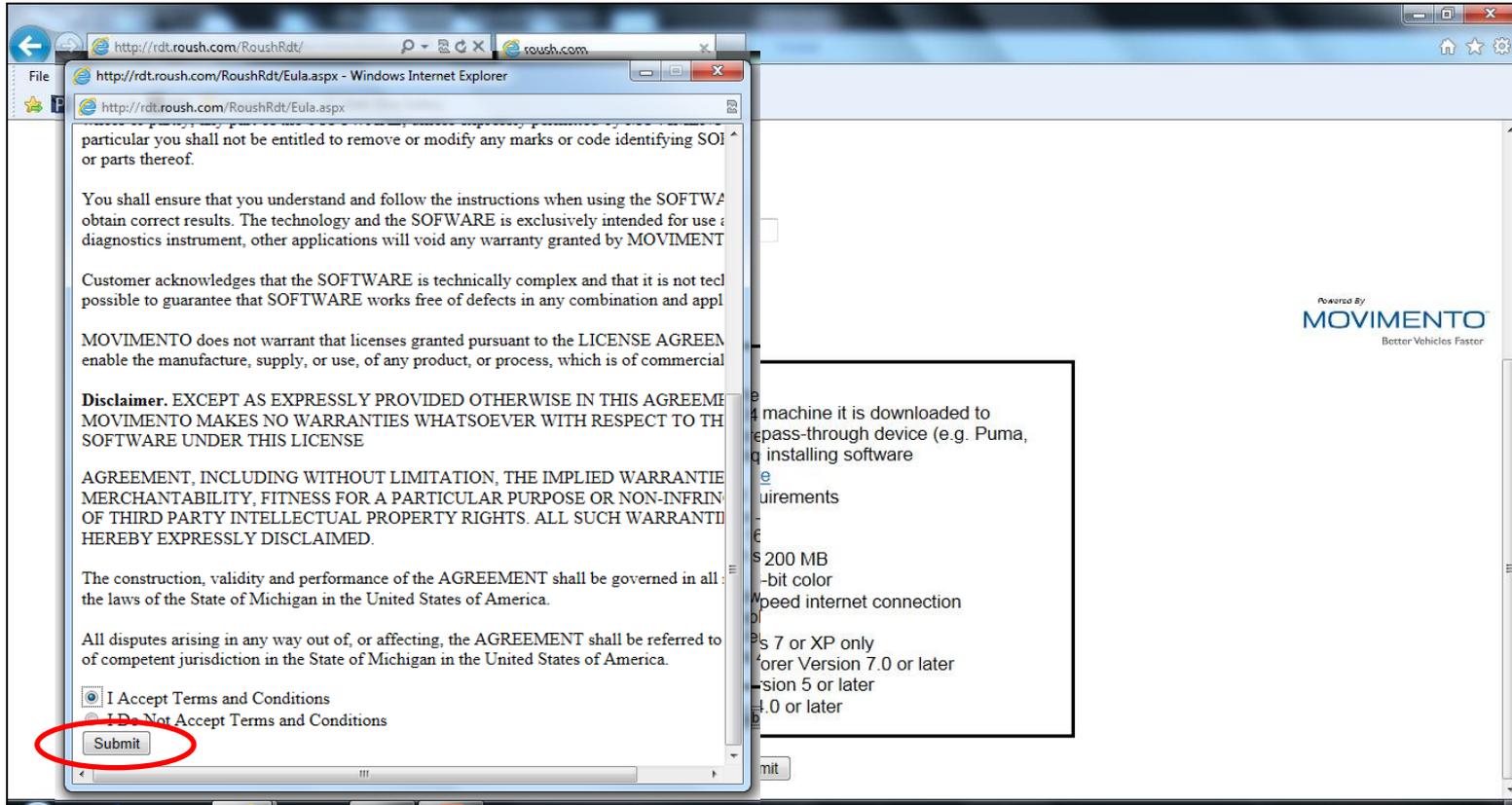
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- The END USER LICENSE AGREEMENT window will pop up.
- Read through the END USER LICENSE AGREEMENT.
- Scroll down to the end of the agreement.



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- Select “I Accept Terms and Conditions”.
- Select “Submit”.



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Roush Diagnostic Tool Software Registration and Download

Thank you for registering for the Roush Diagnostic Tool.

Software is being downloaded to your machine. Based on your machine and browser set up, you may be asked to confirm whether you want to <Run> or <Save> a file named "RoushDiagnosticTool.msi". If asked, please select <Save> so the installation program can be saved on your machine.

An email will be sent to you with instructions to install and activate your software. The email will contain a software activation code. This code can only be used to activate the software on one machine. If you need to install the software on another machine you will need to register for an additional activation code.

If you don't receive an email within two hours or you experience any concerns downloading or starting the software, please send an email to RDT-Support@movimentogroup.com. Please include your contact information and explain the concern you are having in detail.

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Back Close

Do you want to run or save RoushDiagnosticTool.msi (13.1 MB) from rdt.roush.com? Run Save Cancel x

- The RDT software will begin to download.
- Click on the "Save" button. Choose an appropriate location to save the file.



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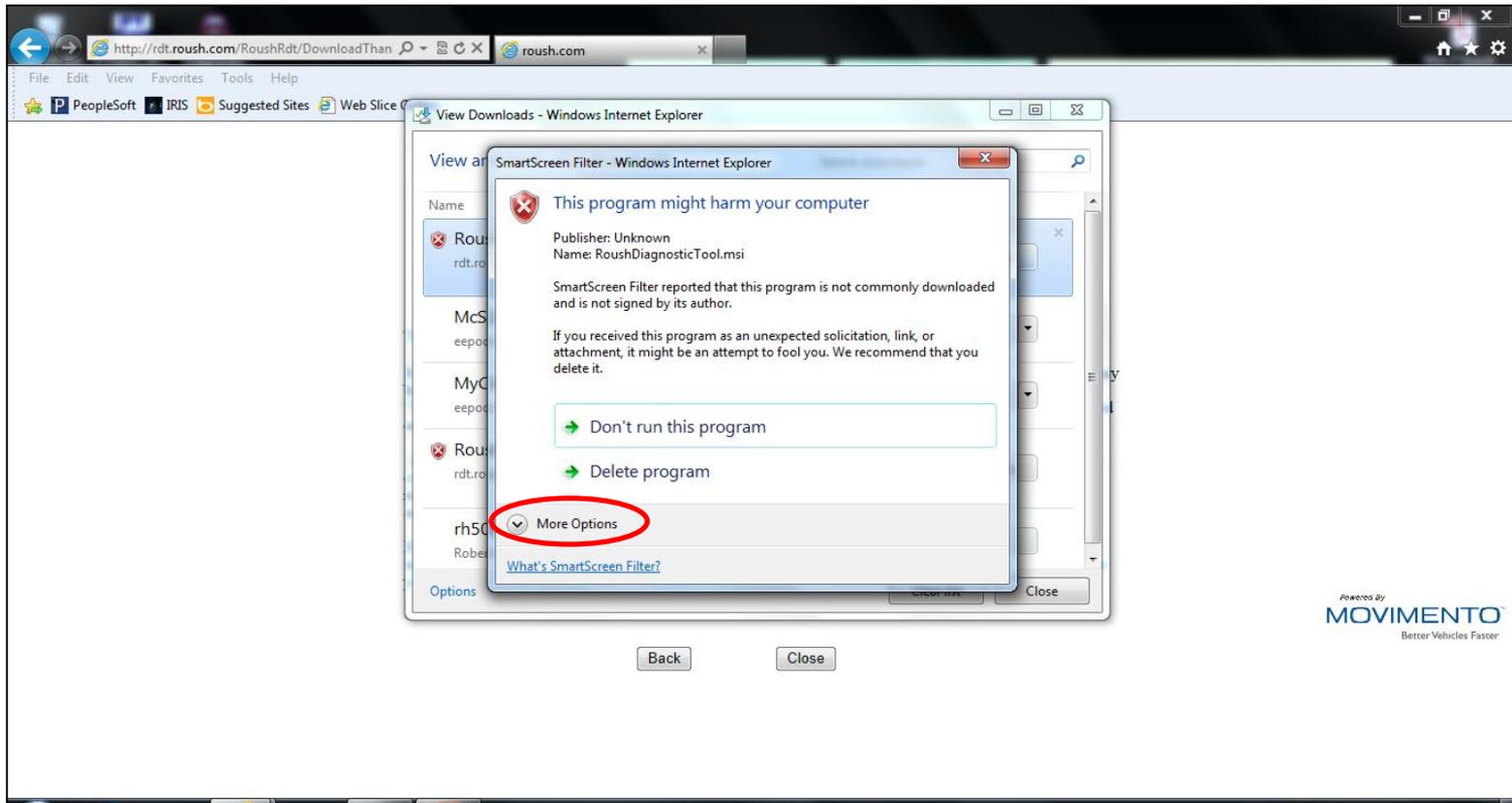
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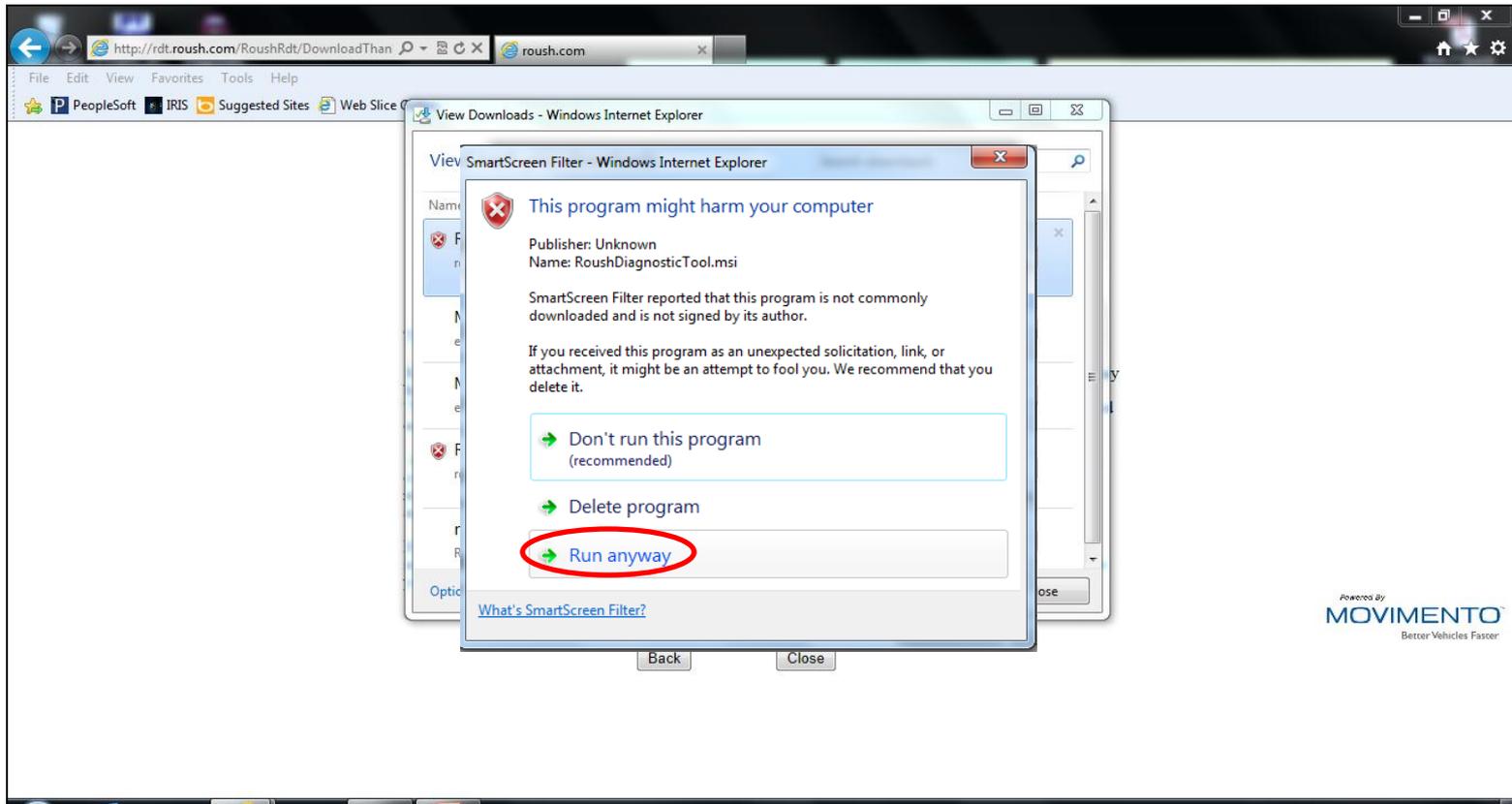
Back Close

RoushDiagnosticTool.msi is not commonly downloaded and could harm your computer. Delete Actions New downloads x

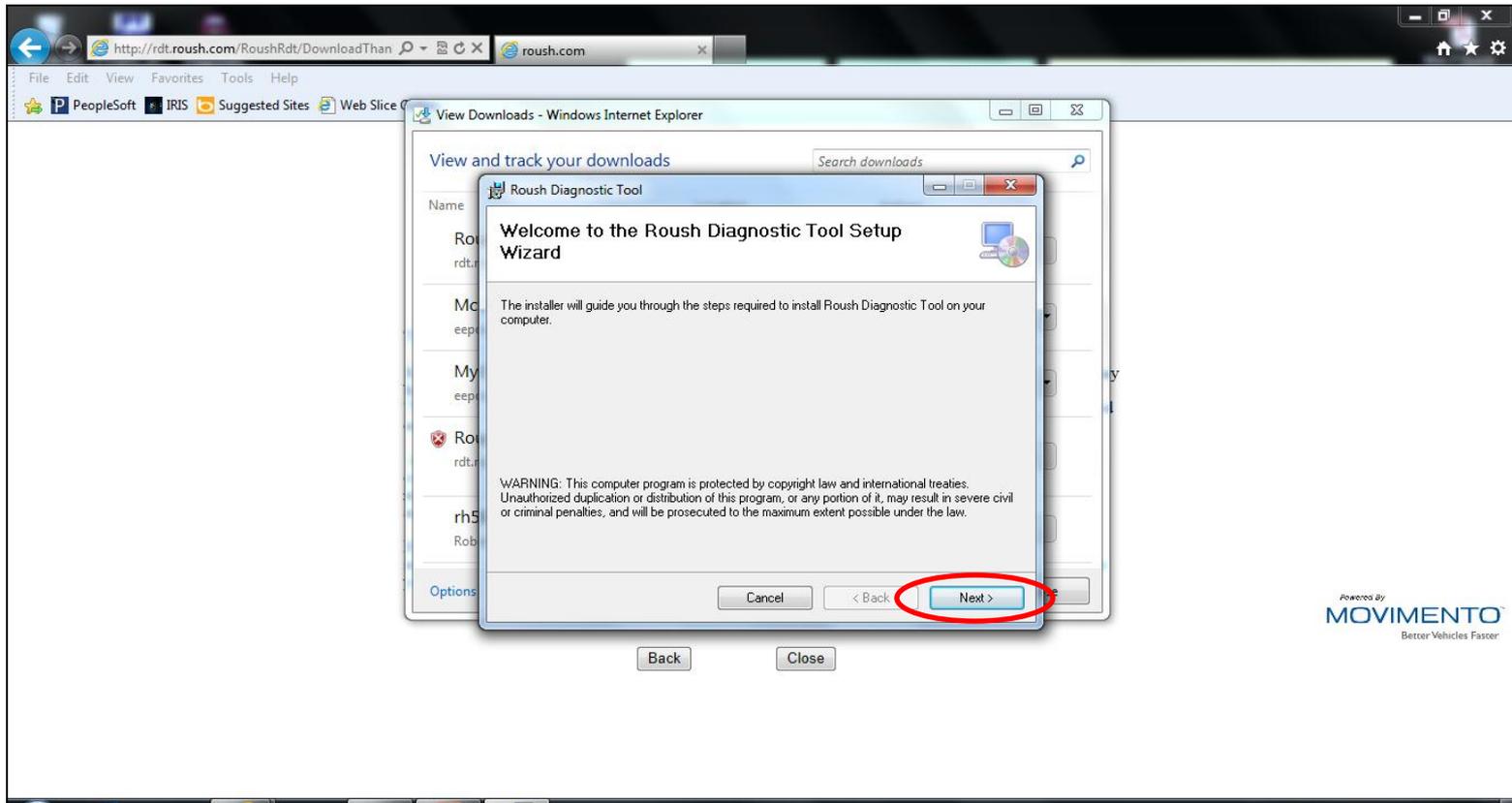
- The following tab may appear. Select "Actions".



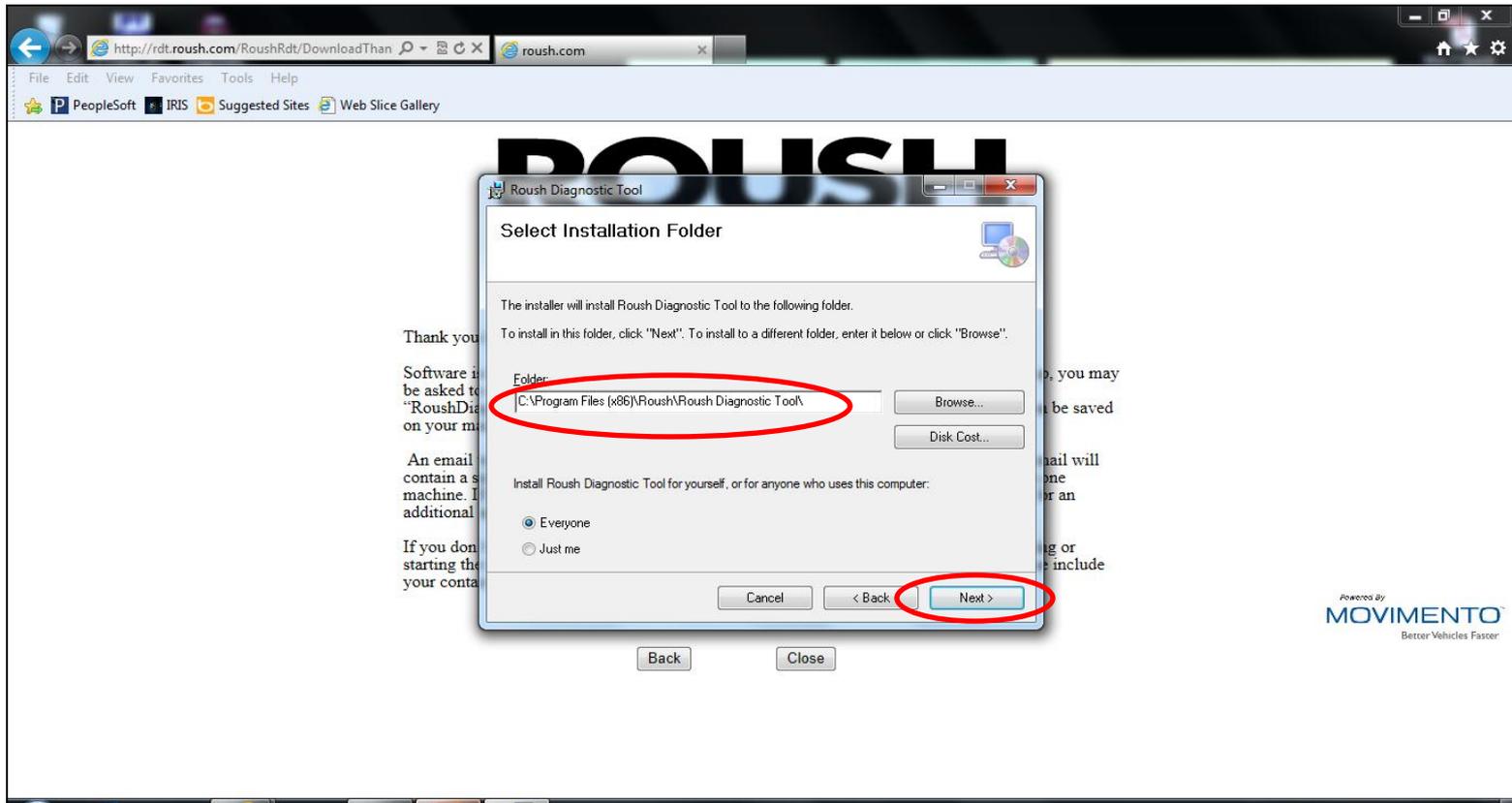
- Select “More Options”.



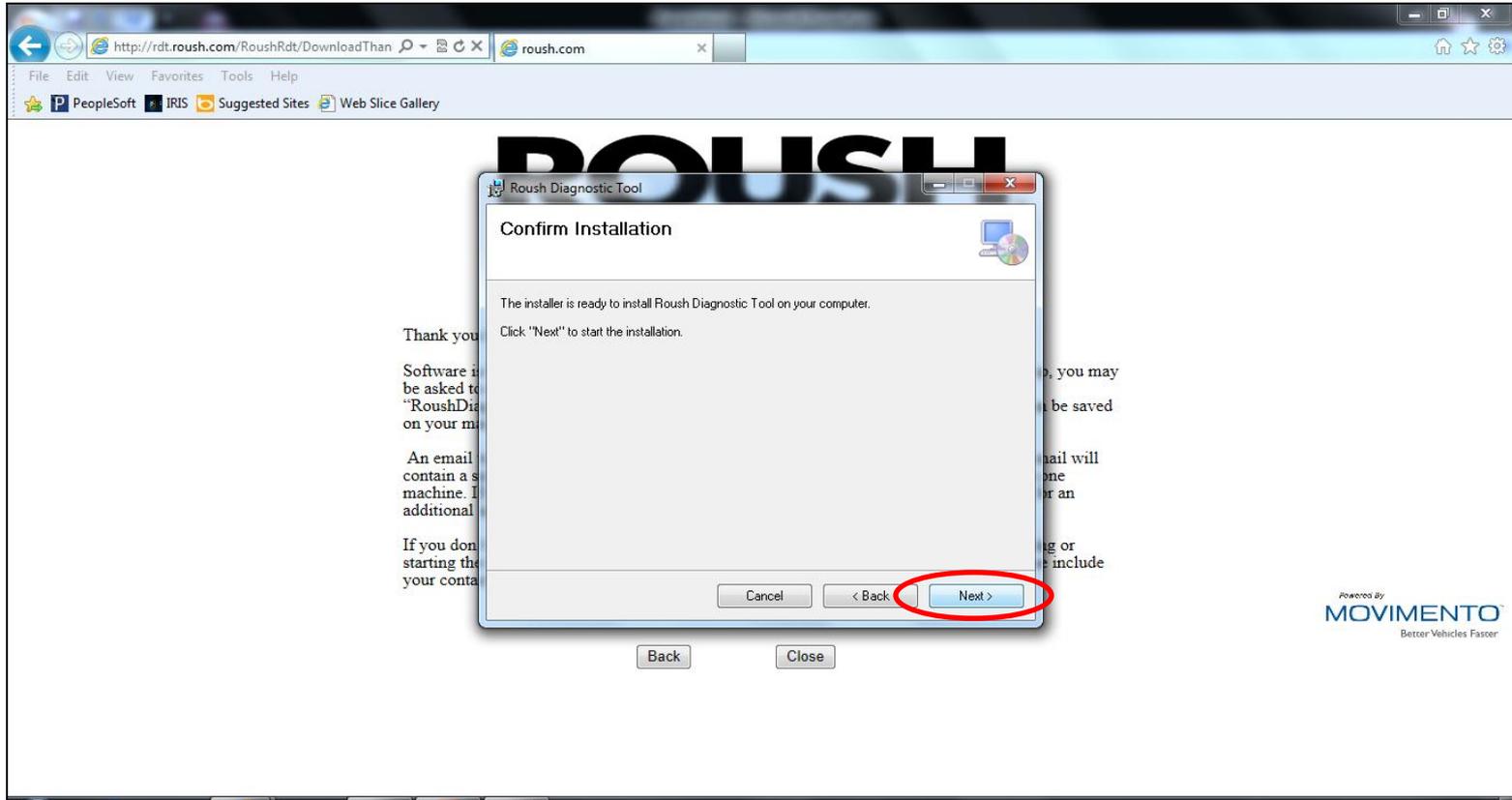
- Select “Run anyway”.



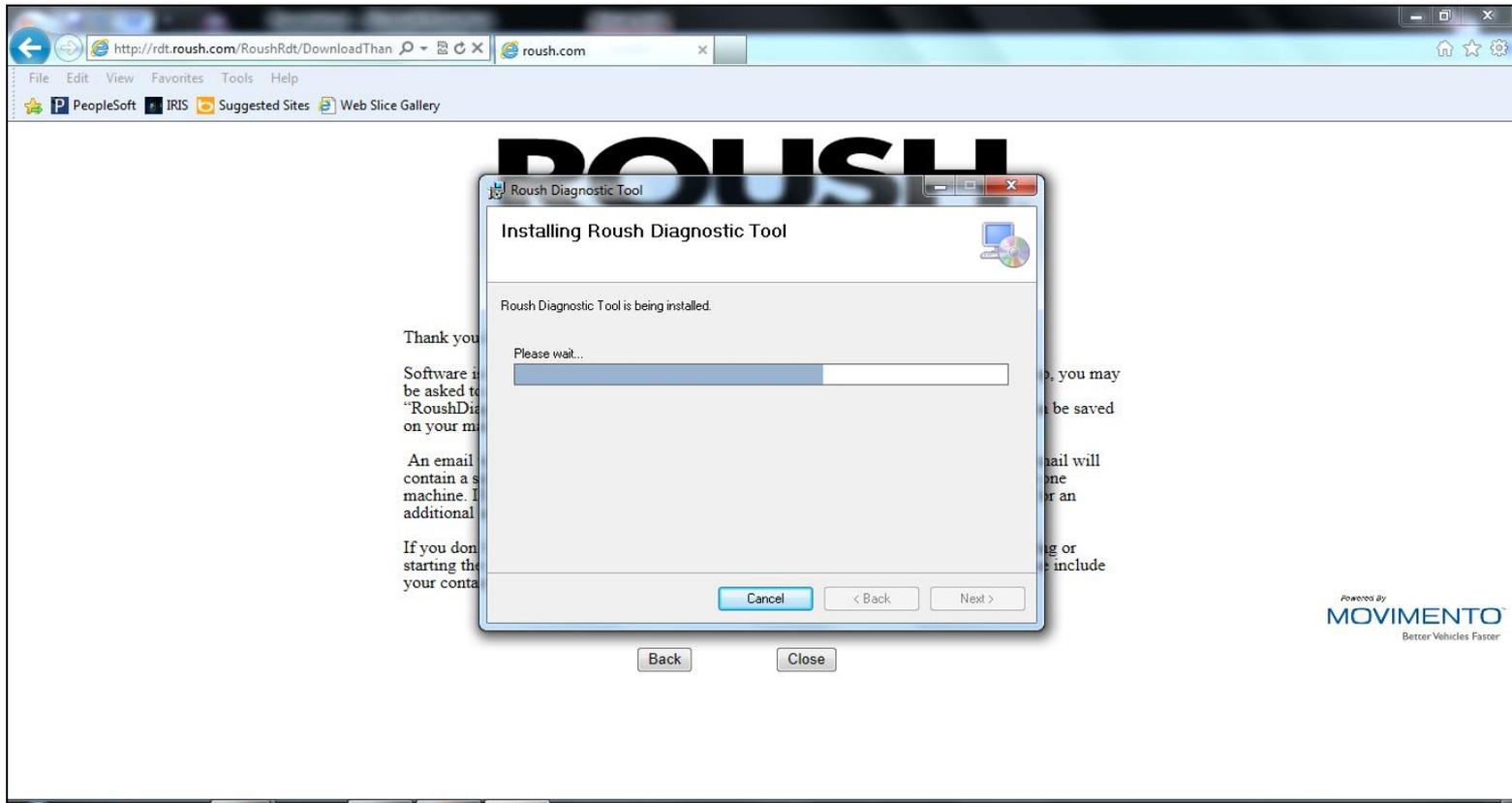
- The Tool Setup Wizard will appear.
- Select “Next”.
- If the Setup Wizard did not automatically start, access the file where the Roush Diagnostic Tool program was saved and open the Roush Diagnostic Tool software.



- Verify the installation directory.
- Select "Next".



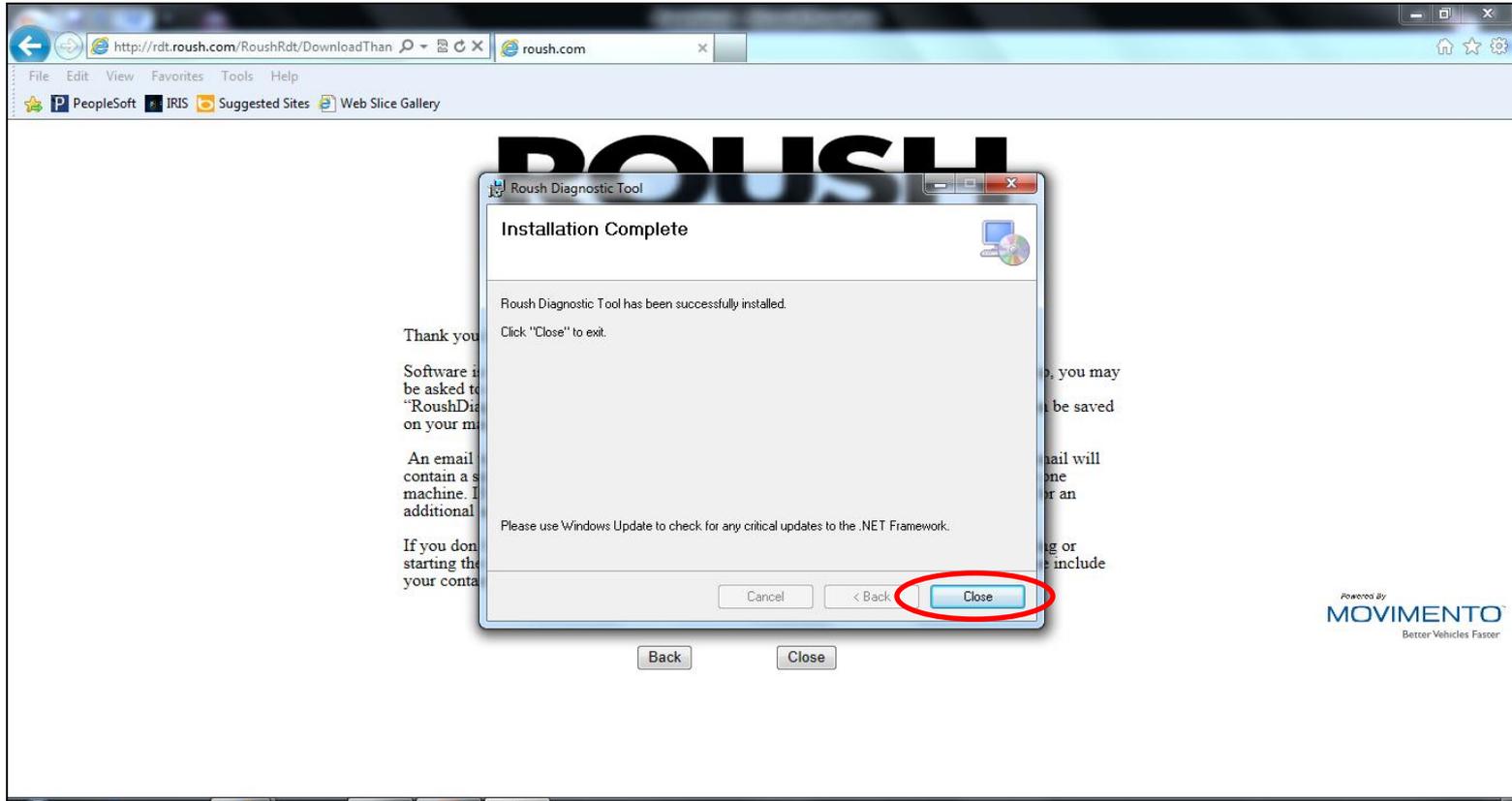
- Select "Next" to install.



- The Roush Diagnostic Tool will begin to install.



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- Once the Roush Diagnostic Tool has installed, select "Close".



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Roush Diagnostic Tool Software Registration and Download

Thank you for registering for the Roush Diagnostic Tool.

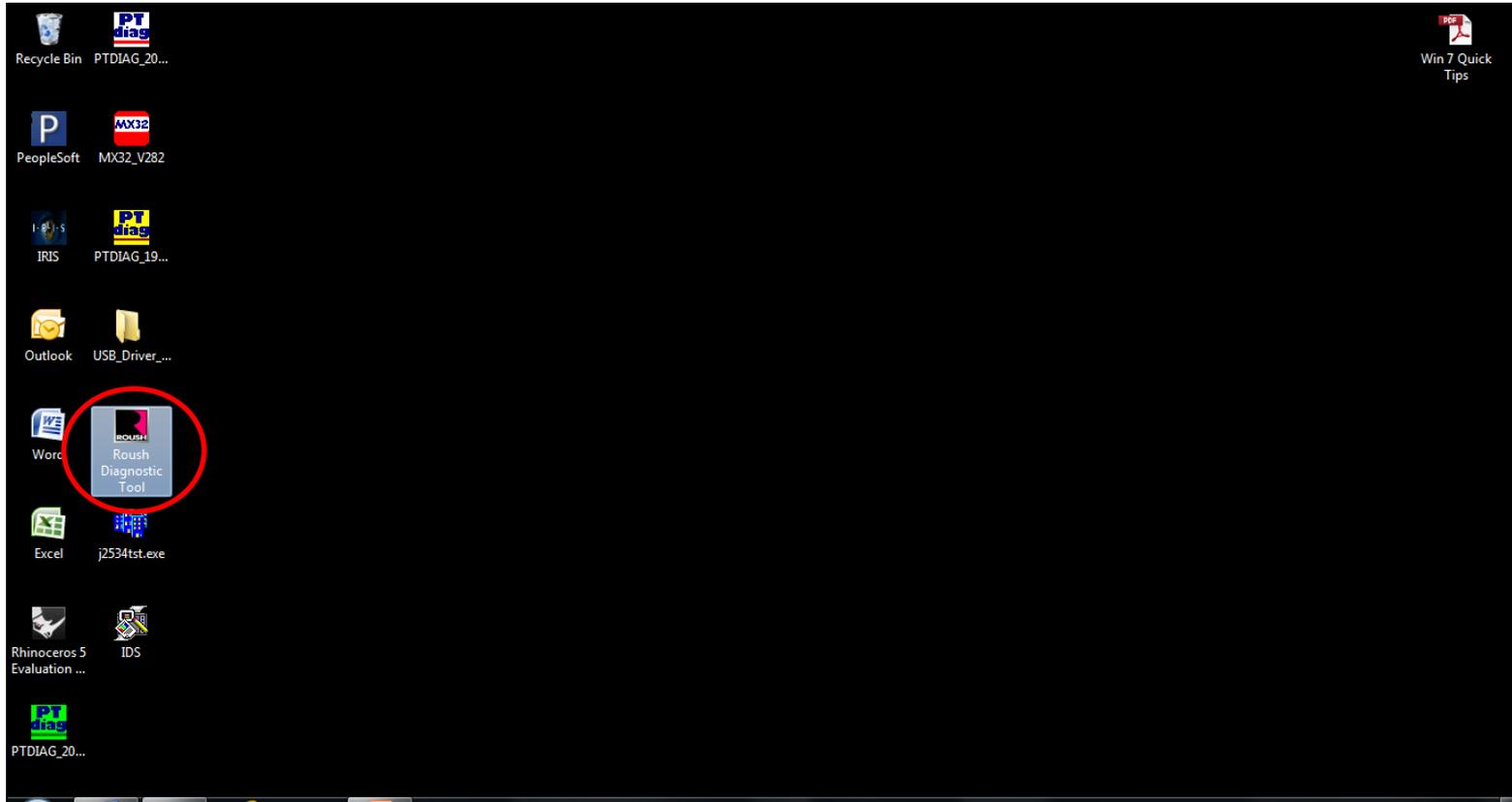
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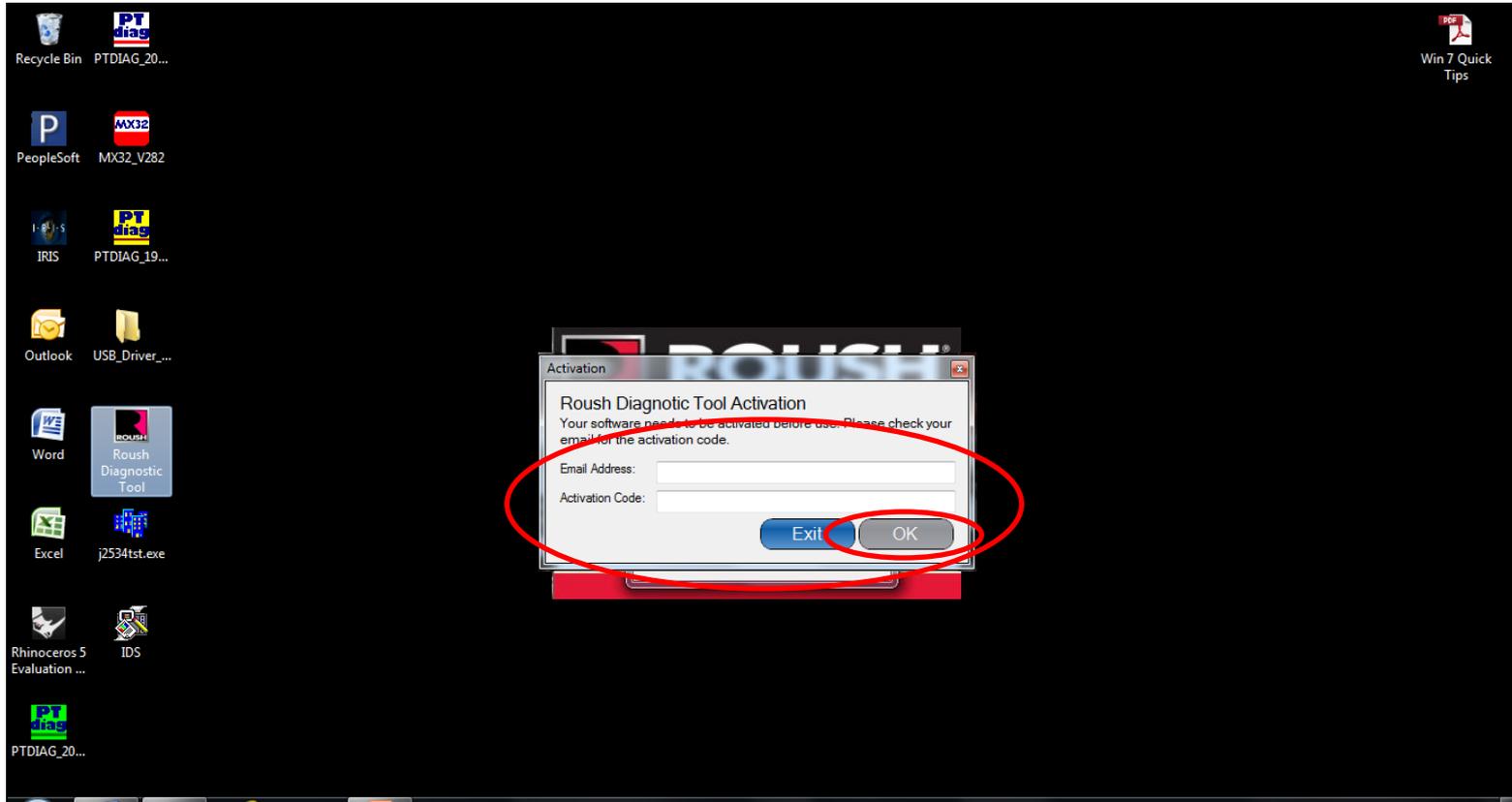
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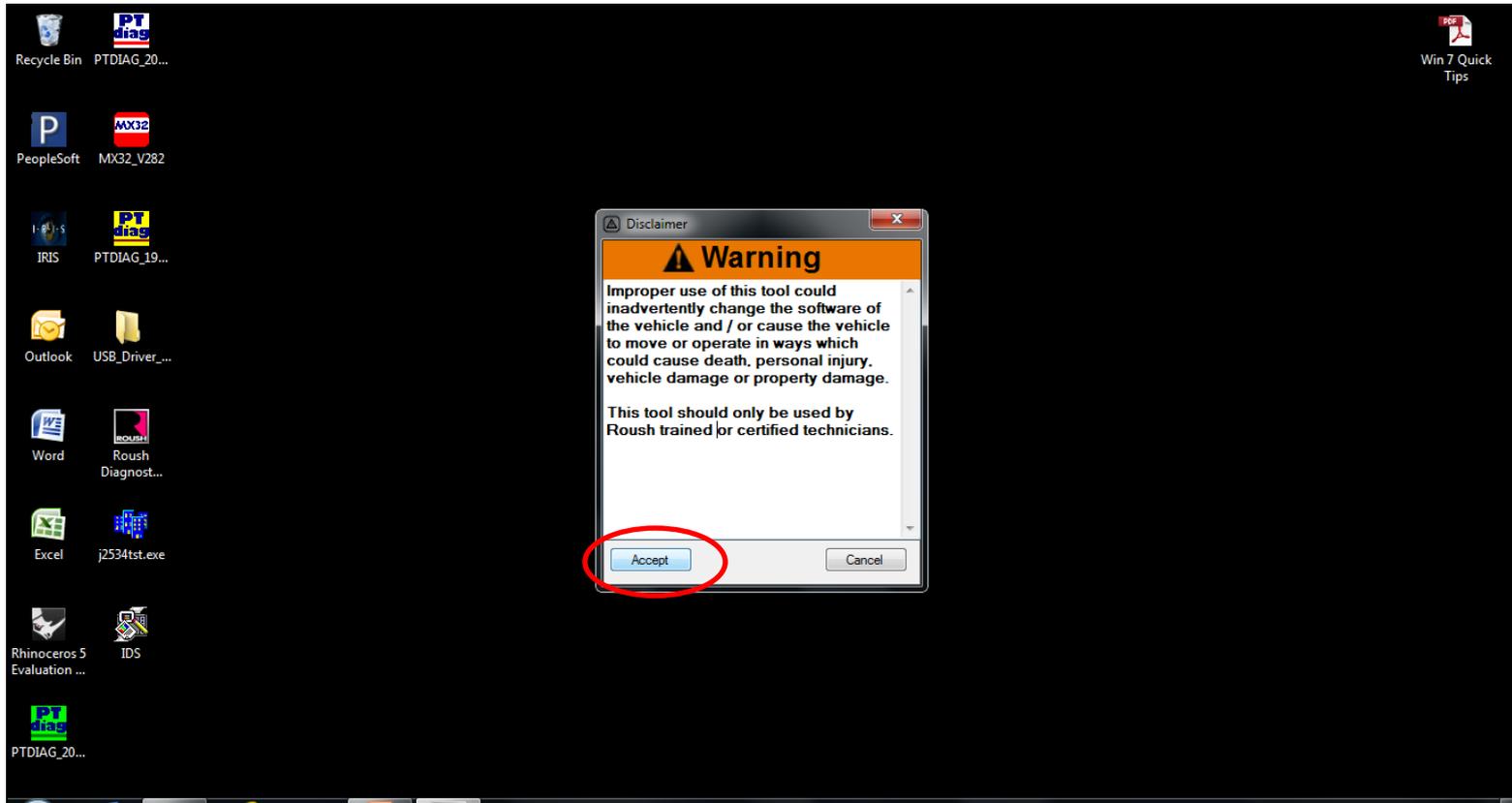
- Select "Close".



- Select the Roush Diagnostic Tool Icon to open the software.



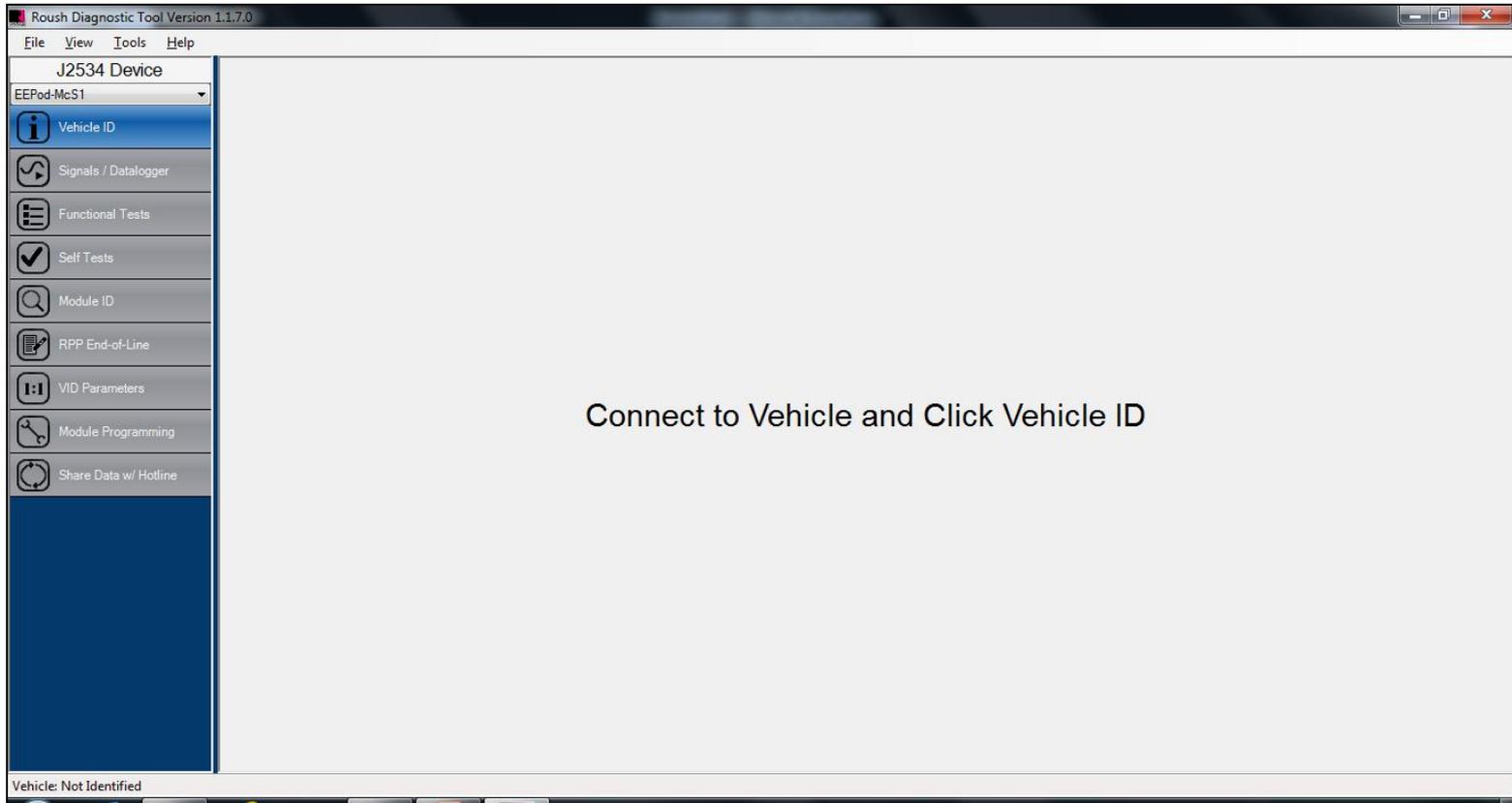
- Access your email account for the software activation code.
- Enter your email address and activation code in the respective fields and select “OK”.



- When prompted with the software warning, click accept.



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- You are now ready to use your Roush Diagnostic Tool Software.



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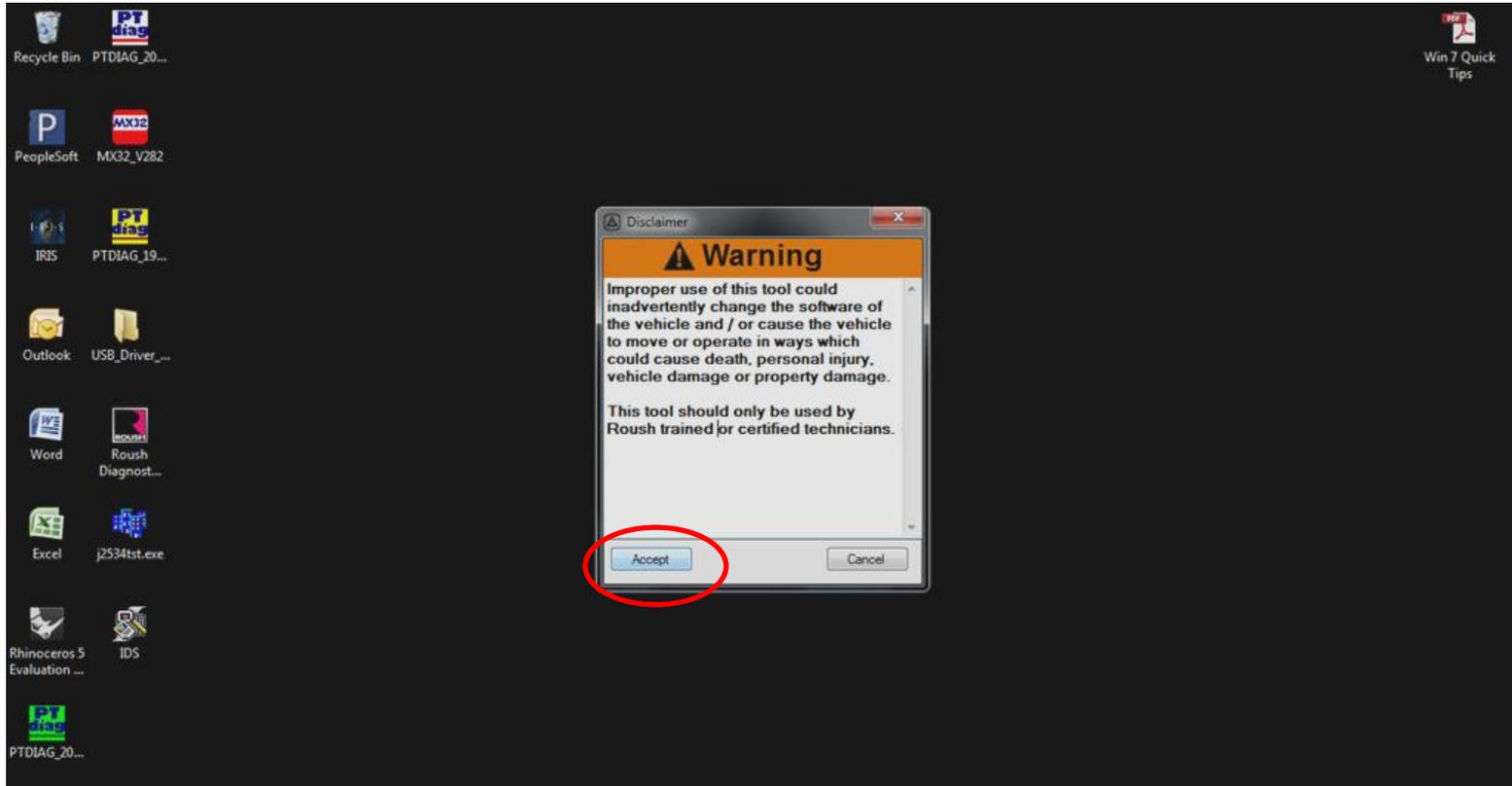
Roush Diagnostic Tool Retail Flash Procedure

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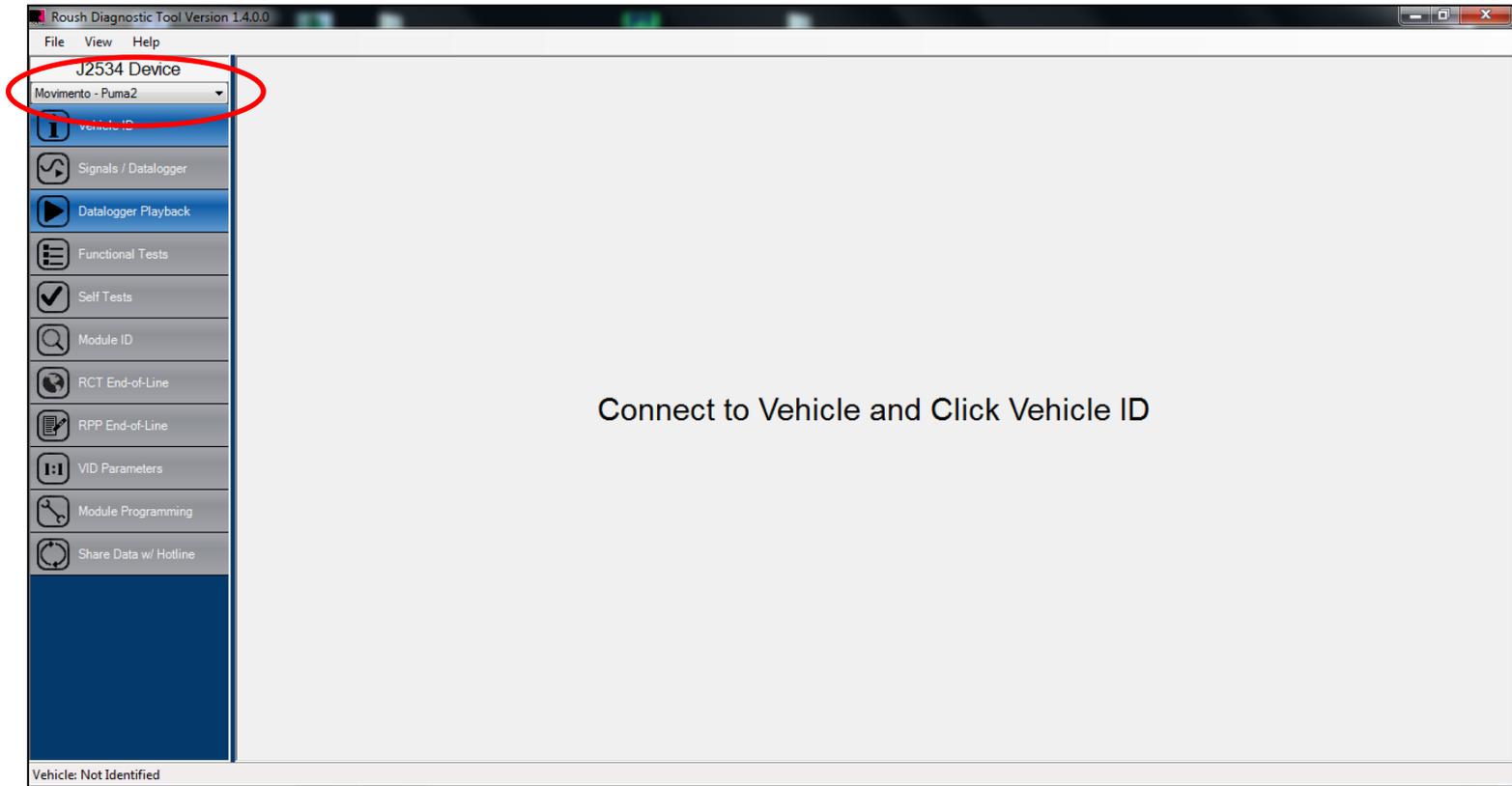
Note: RDT software requires an internet connection to flash the vehicle.



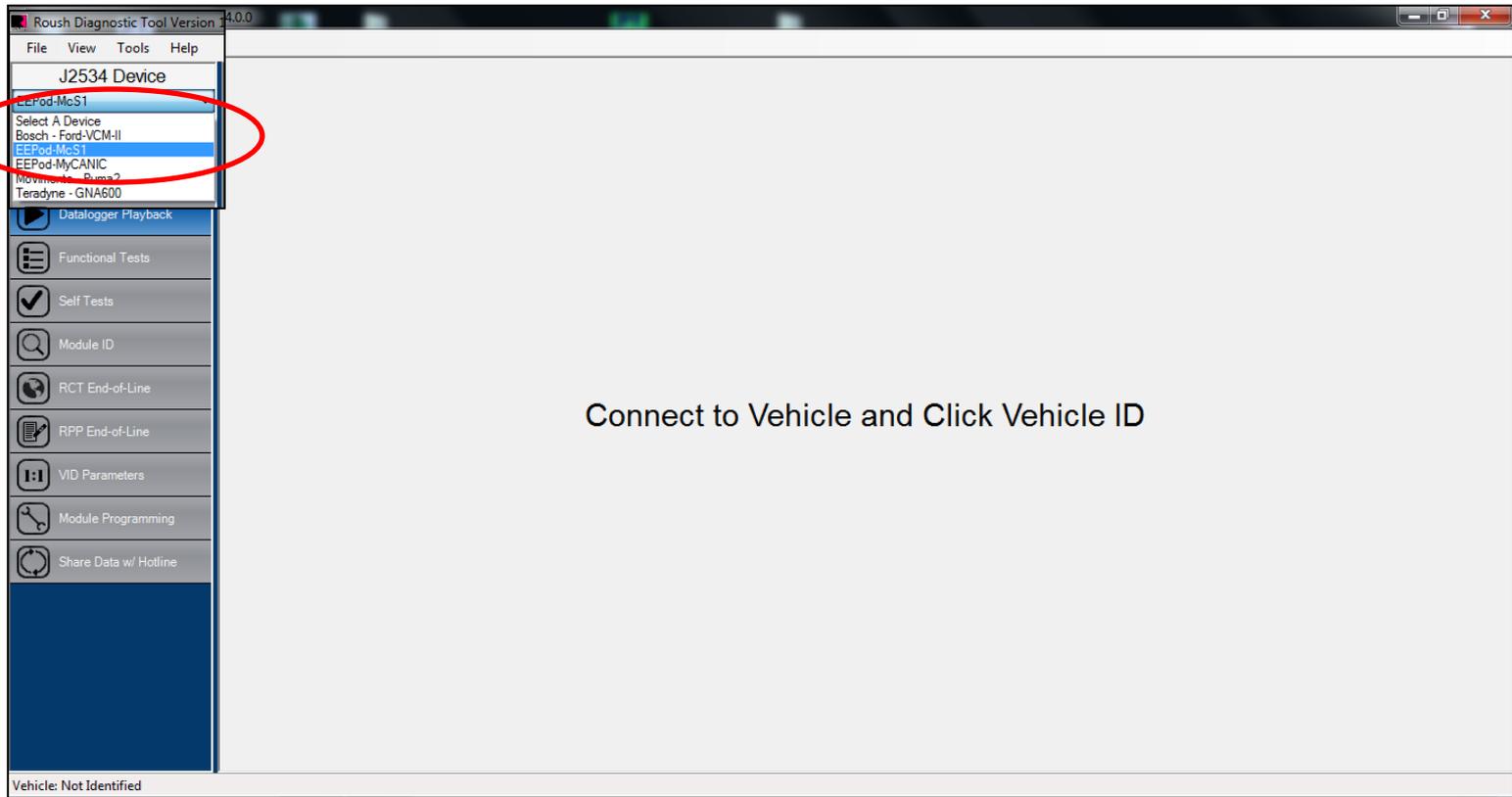
- Select the Roush Diagnostic Tool Icon to begin the flash procedure.



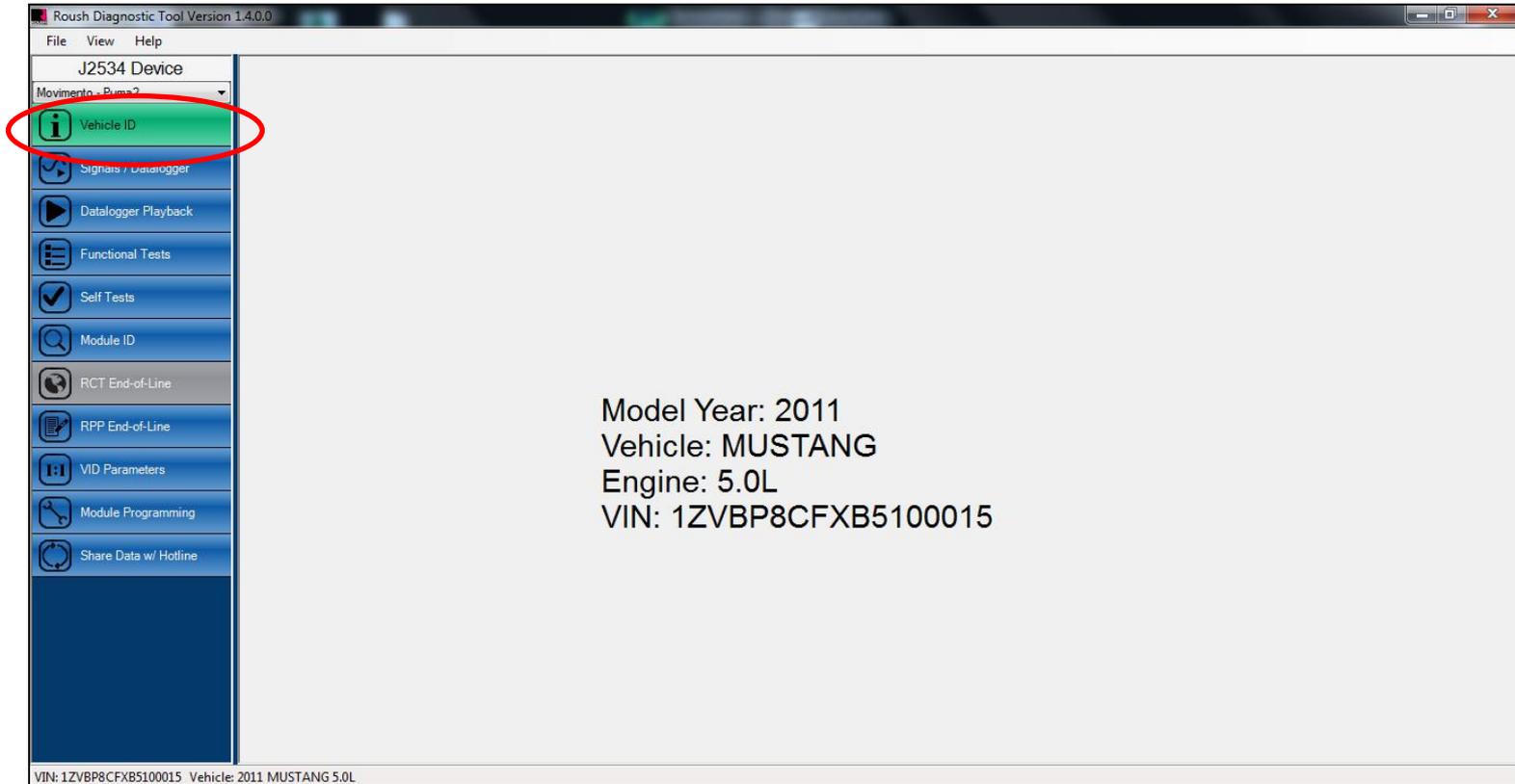
- When prompted with the software warning, click accept.



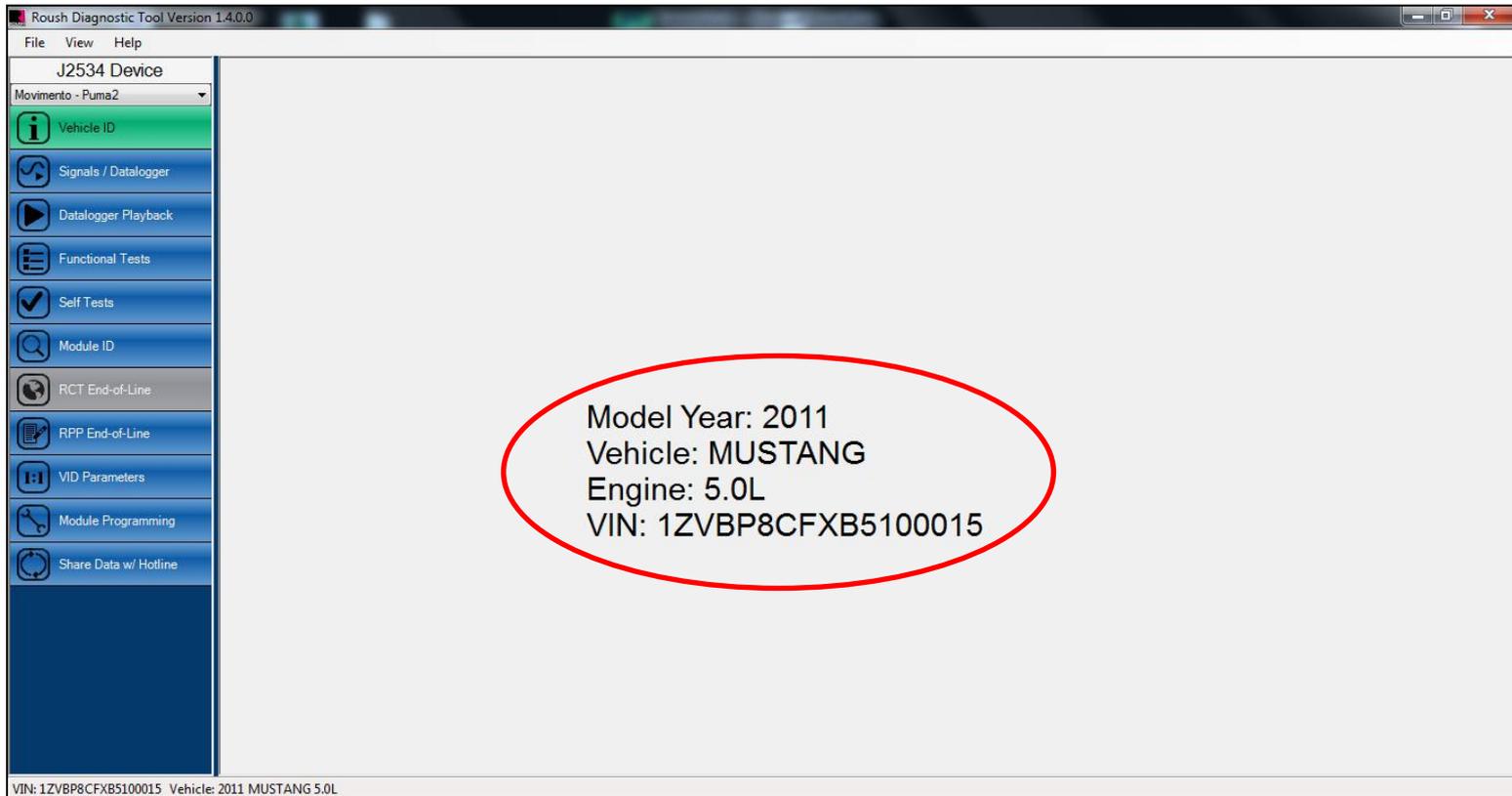
- Click on the drop down menu in the upper left corner to select the appropriate SAE J2534 vehicle communication device.



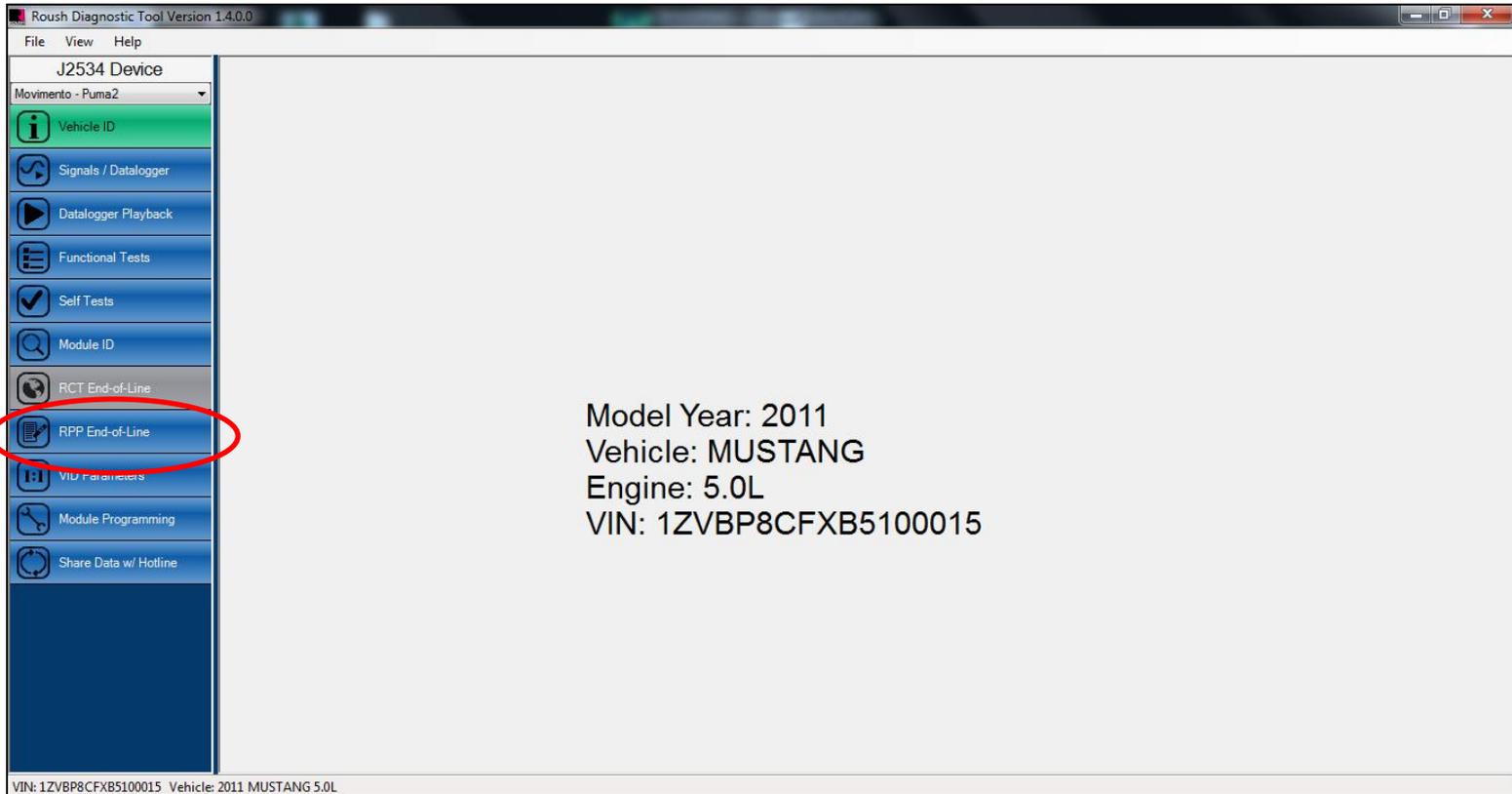
- If using the VCM 1, select the Teradyne- GNA600 from the drop down menu.
- If using the VCM 2, select the Bosch- Ford-VCM-2.



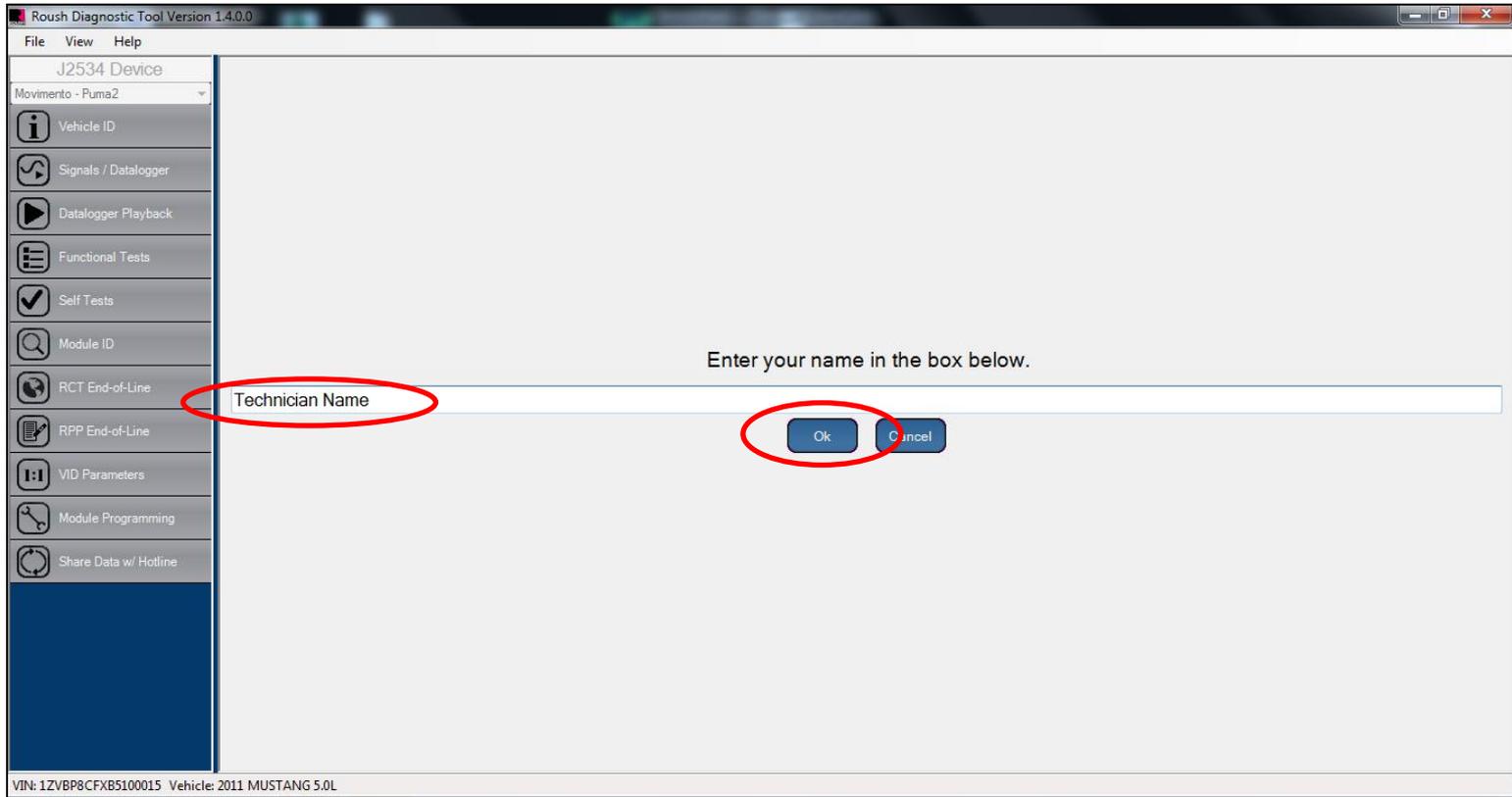
- With the vehicle in the Key On, Engine Off position and the VCM 1 or VCM 2 connected to the vehicle and a USB port on the computer, select “Vehicle ID”.



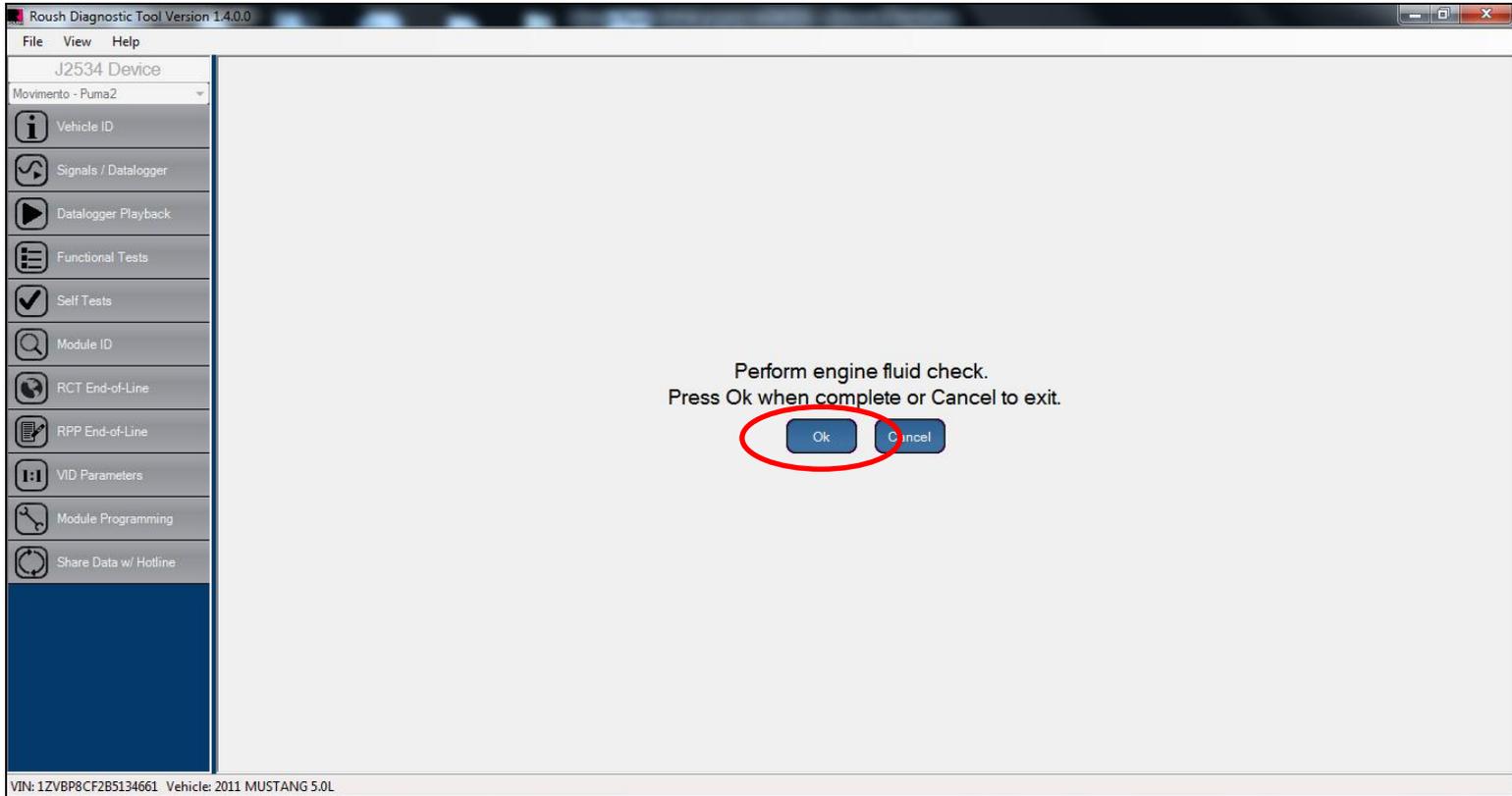
- Once the vehicle is identified, the vehicle information will be displayed as shown above.
- If the vehicle cannot be identified, close the tool, be sure the VCM 1 or VCM 2 is connected and the vehicle ignition is in the Key On, Engine Off position. Open the tool and restart the procedure.



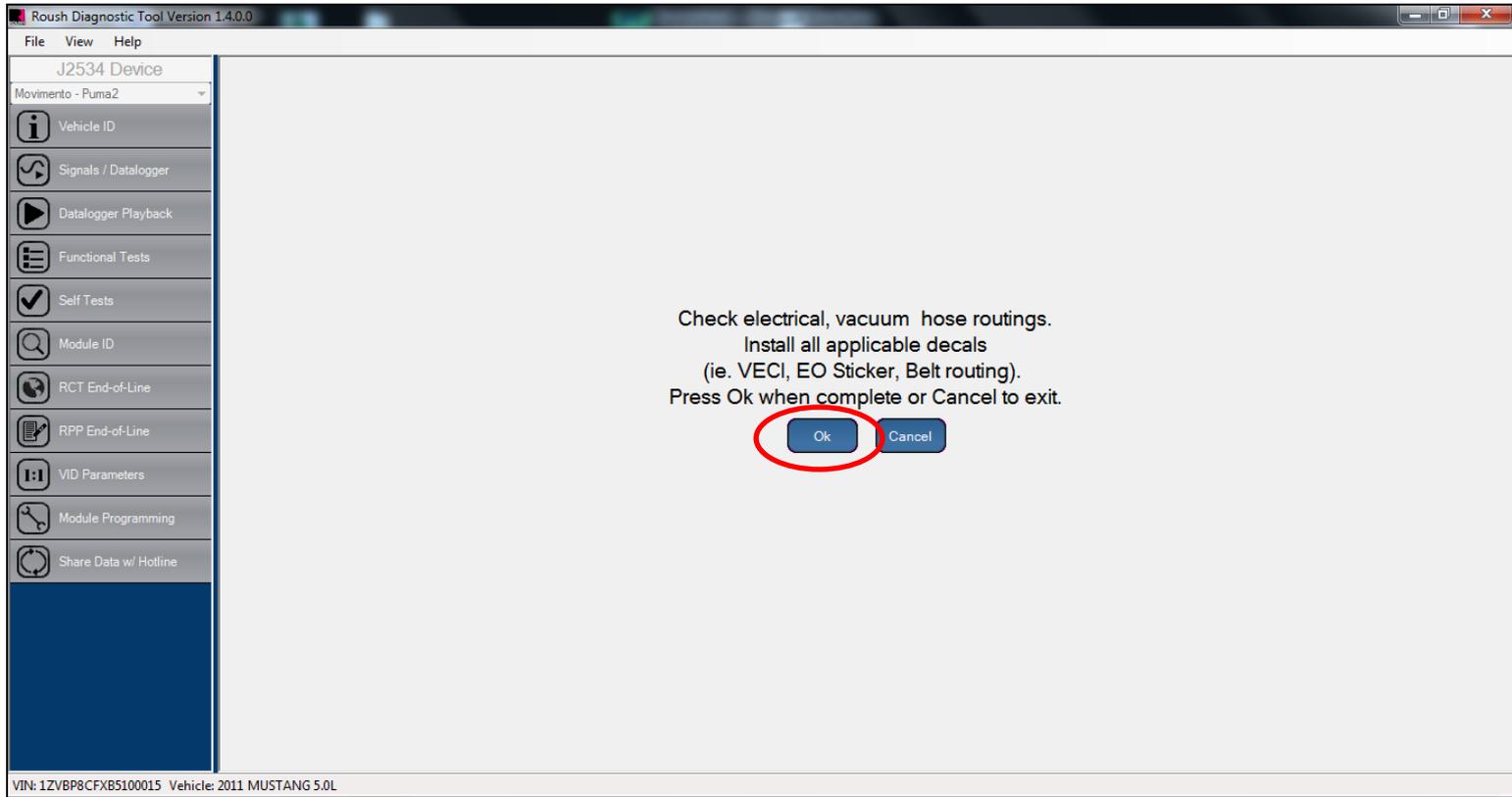
- Once the vehicle is identified, select “RPP End-of-Line” from the menu on the left.



- Once prompted, enter your name and select "Ok".



- Once the engine oil, engine radiator coolant, **AND** intercooler coolant levels are verified, select "Ok".



- Perform the above check.
- Click “Ok” once the routings have been verified and the decals installed.

Roush Diagnostic Tool Version 1.4.0.0

File View Help

J2534 Device

Movimento - Puma2

- Vehicle ID
- Signals / Datalogger
- Datalogger Playback
- Functional Tests
- Self Tests
- Module ID
- RCT End-of-Line
- RPP End-of-Line
- VID Parameters
- Module Programming
- Share Data w/ Hotline

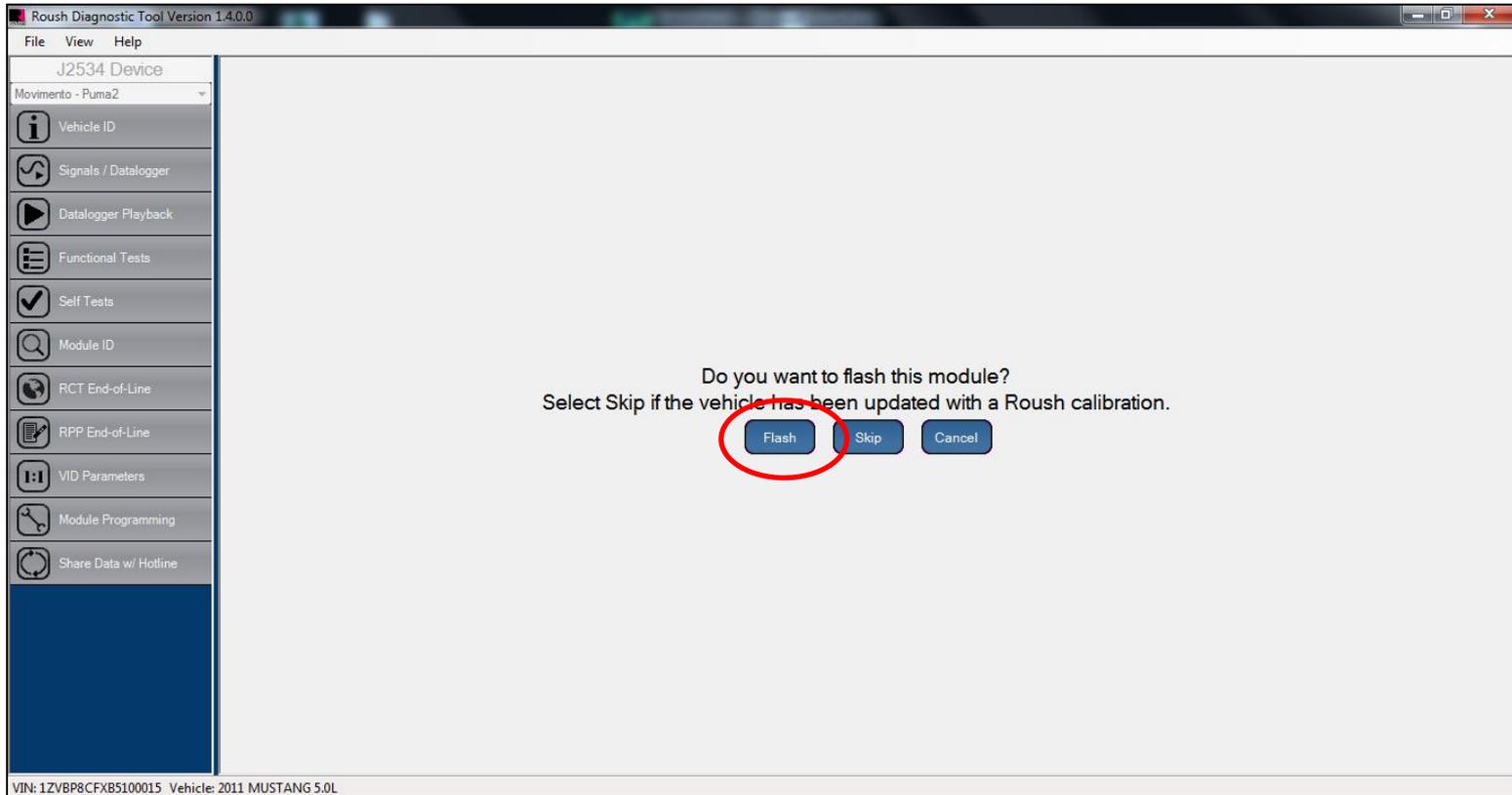
Review the chart below and perform the spark plug procedure.

Vehicle	Model Year	Kit	Engine	Comment
Mustang	2005-2008J1	M90	4.6L 3V (2008J1 Engine Codes 8G-836-AA & 8G-837-AA)	Install new - HTO
	2008J2-2010		4.6L 3V (2008J2 Engine Codes 8G-836-AB & 8G-837-AB)	No Change Req'd - Use Stock Plug
	2005-2008J1	TVS2300	4.6L 3V (2008J1 Engine Codes 8G-836-AA & 8G-837-AA)	Install new - HTO w/ 0.032" Gap
	2008J2-2010		4.6L 3V (2008J2 Engine Codes 8G-836-AB & 8G-837-AB)	Remove & Re-Gap Stock Plug to 0.032"
	2011+	TVS2300	5.0L 4V	Install new- CYFS-12YP
F150	2004-2008J1	M112	5.4L 3V (2008J1 Engine Codes 7G-600-BA & 7G-692-BA)	Install new - HTO
	2008J2		5.4L 3V (2008J1 Engine Codes 7G-600-BB & 7G-692-BB)	No Change Req'd - Use Stock Plug
	2011+	TVS2300	5.0L 4V	Install new- CYFS-12YP
	2011+	TVS2300	6.2L 2V	No Change Req'd - Use Stock Plug

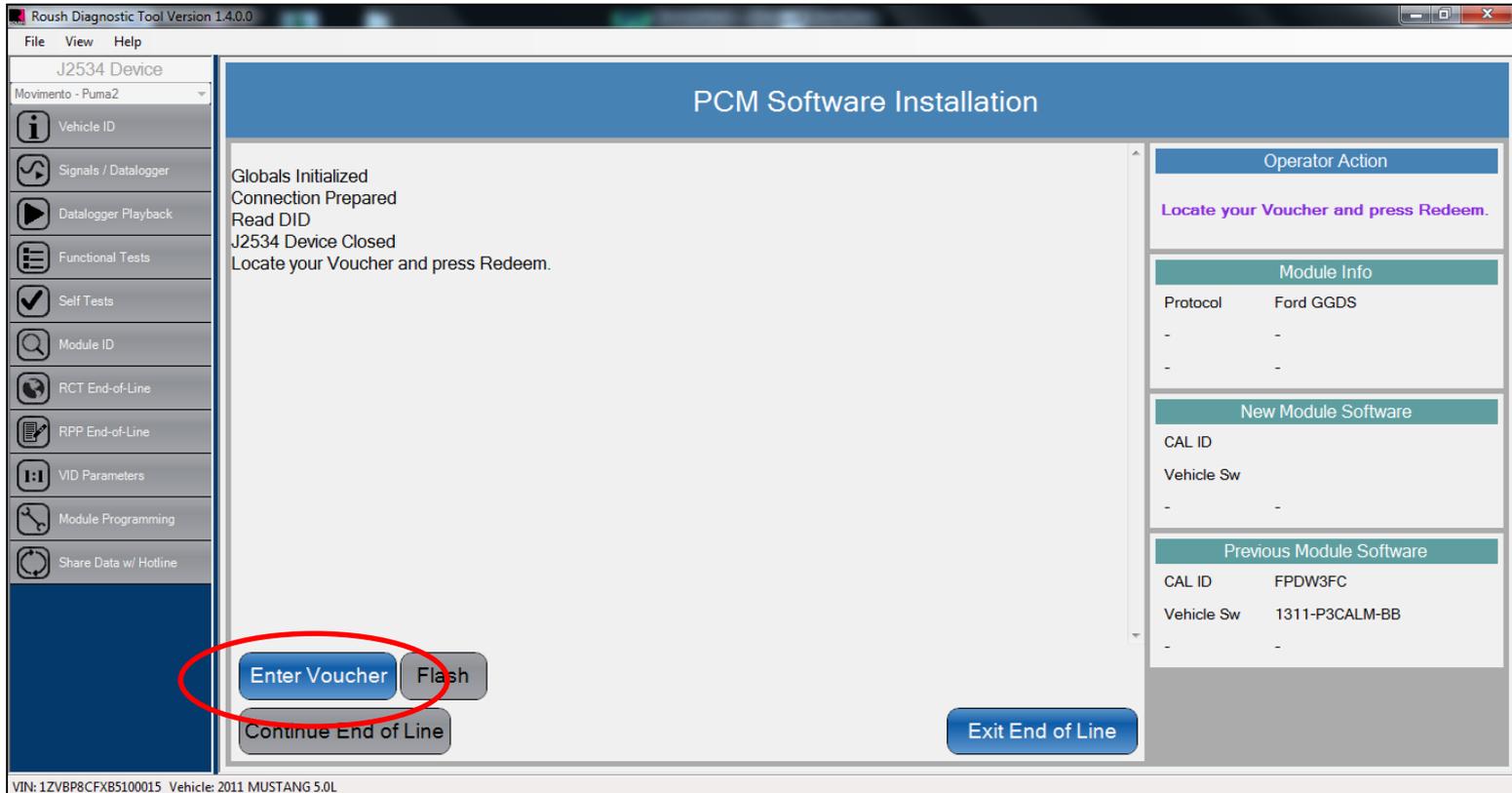
Ok Cancel

VIN: 1ZVBP8CFXB5100015 Vehicle: 2011 MUSTANG 5.0L

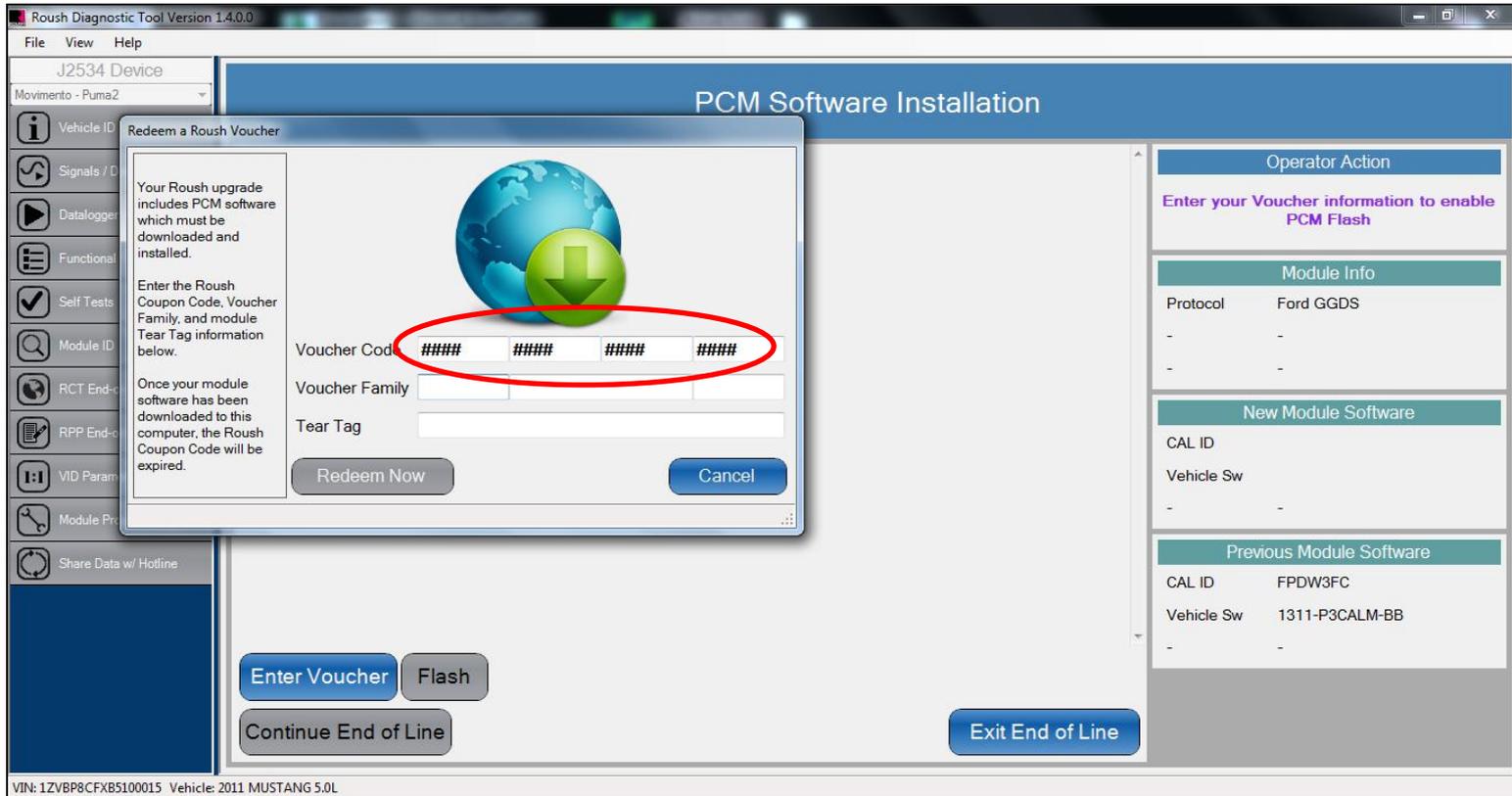
- Review the spark plug table for your specific application. **I**f applicable, install new spark plugs or re-gap the factory spark plugs to the specification provided on the chart.
- Select “Ok” once this step is complete.



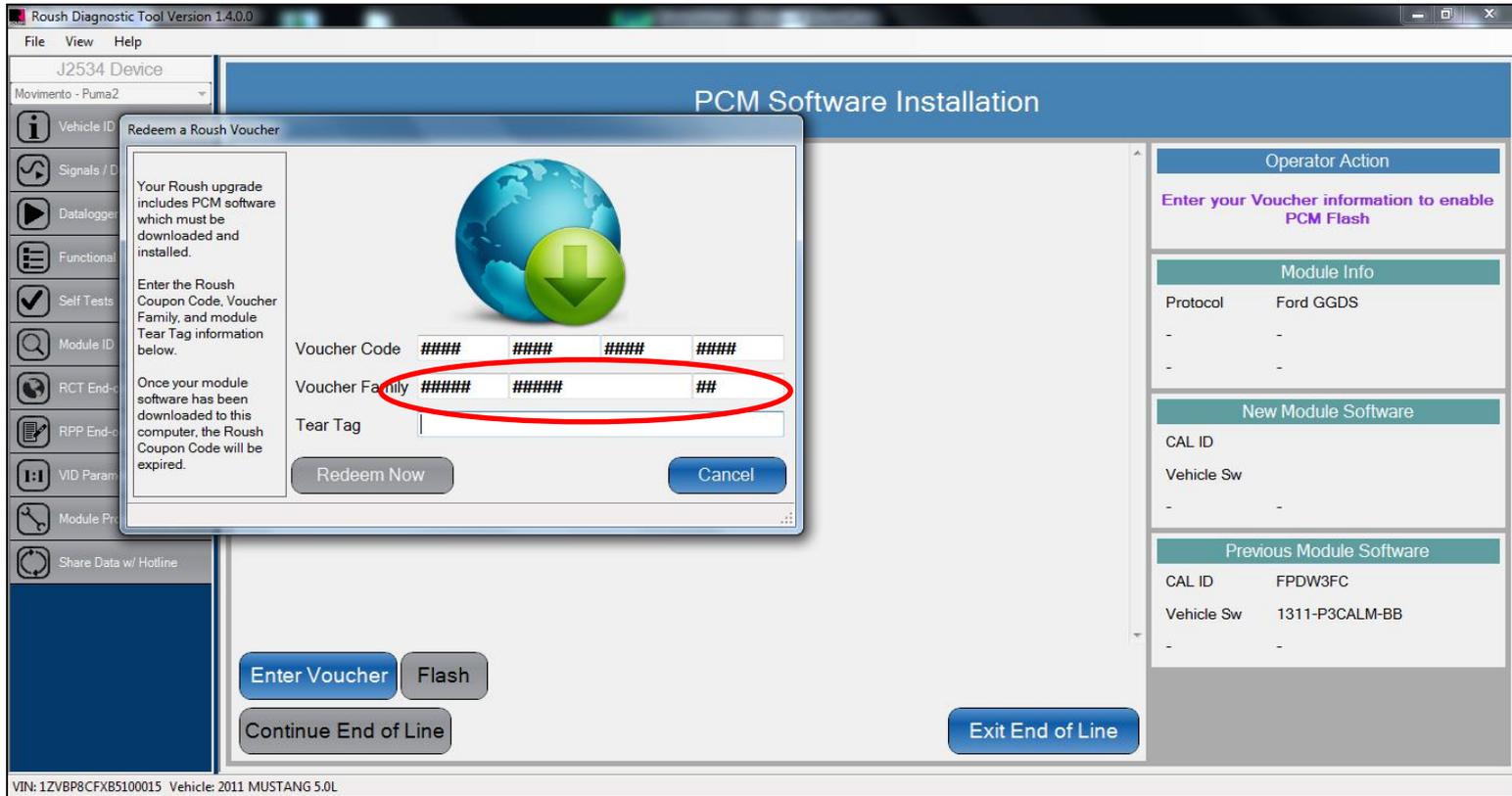
- If you have not yet flashed the vehicle module, select “Flash” and continue with the next step.
- If you have already flashed the module, select “Skip” and proceed to page 47.



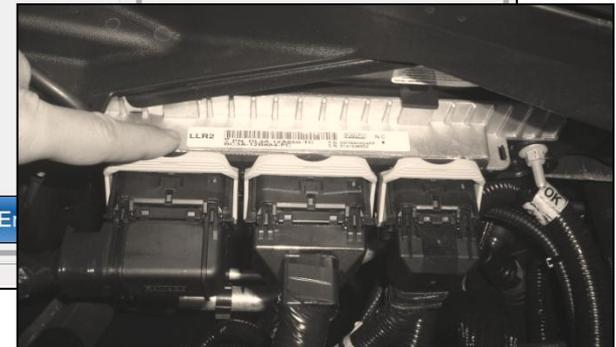
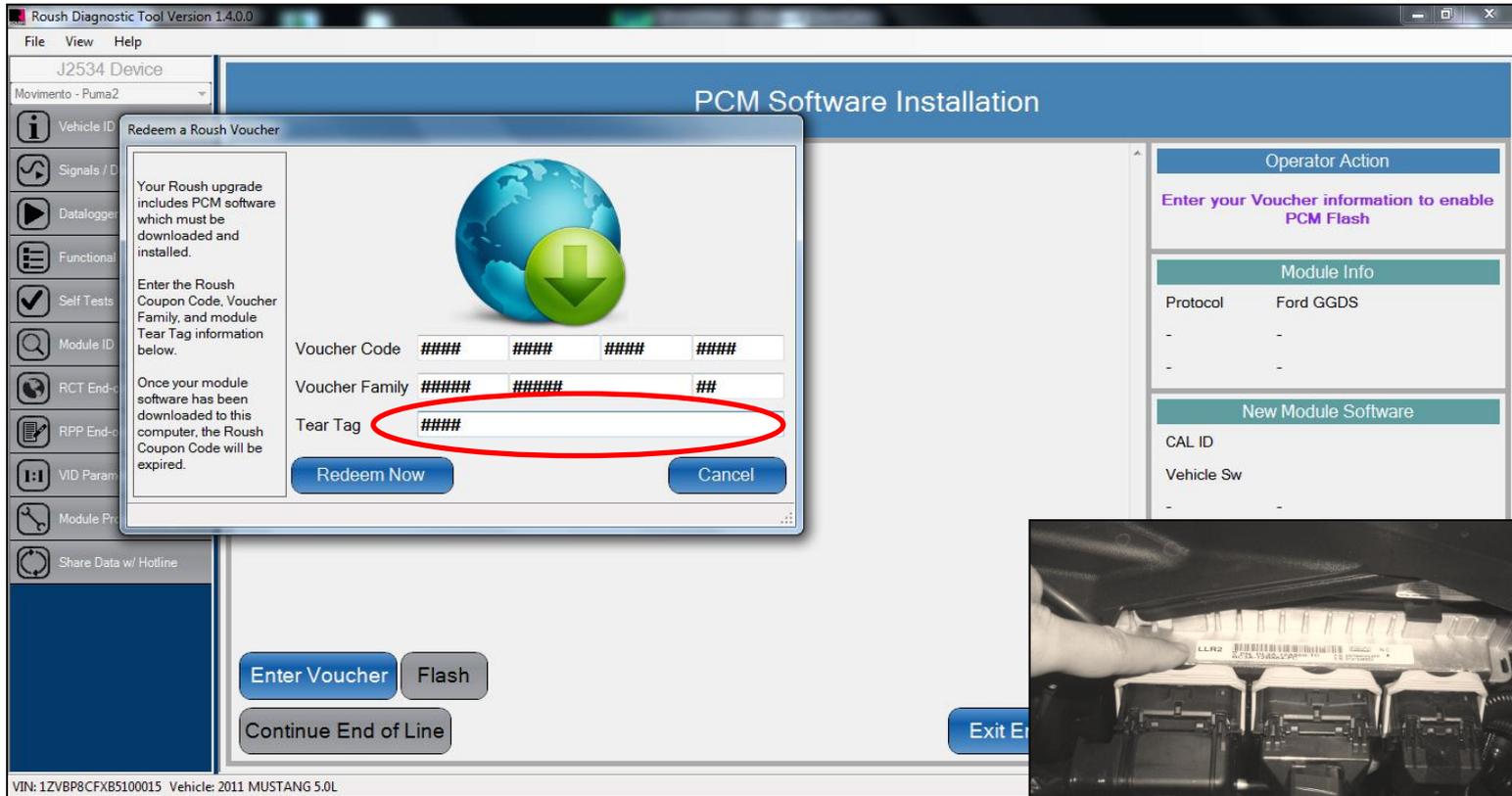
- Select “Enter Voucher”.



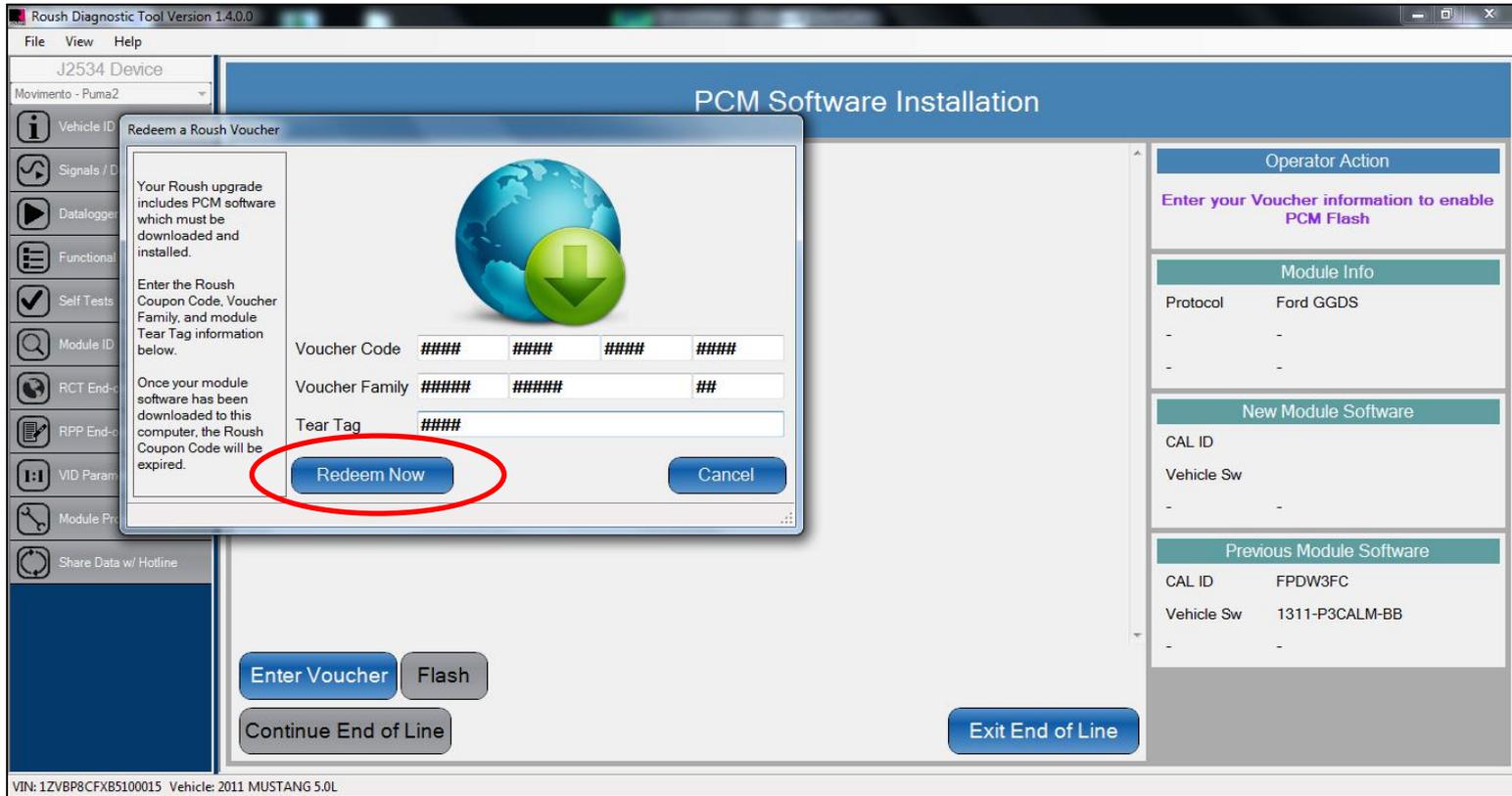
- Retrieve the 16 digit alphanumeric Voucher Code included in your kit and enter it into the appropriate field.



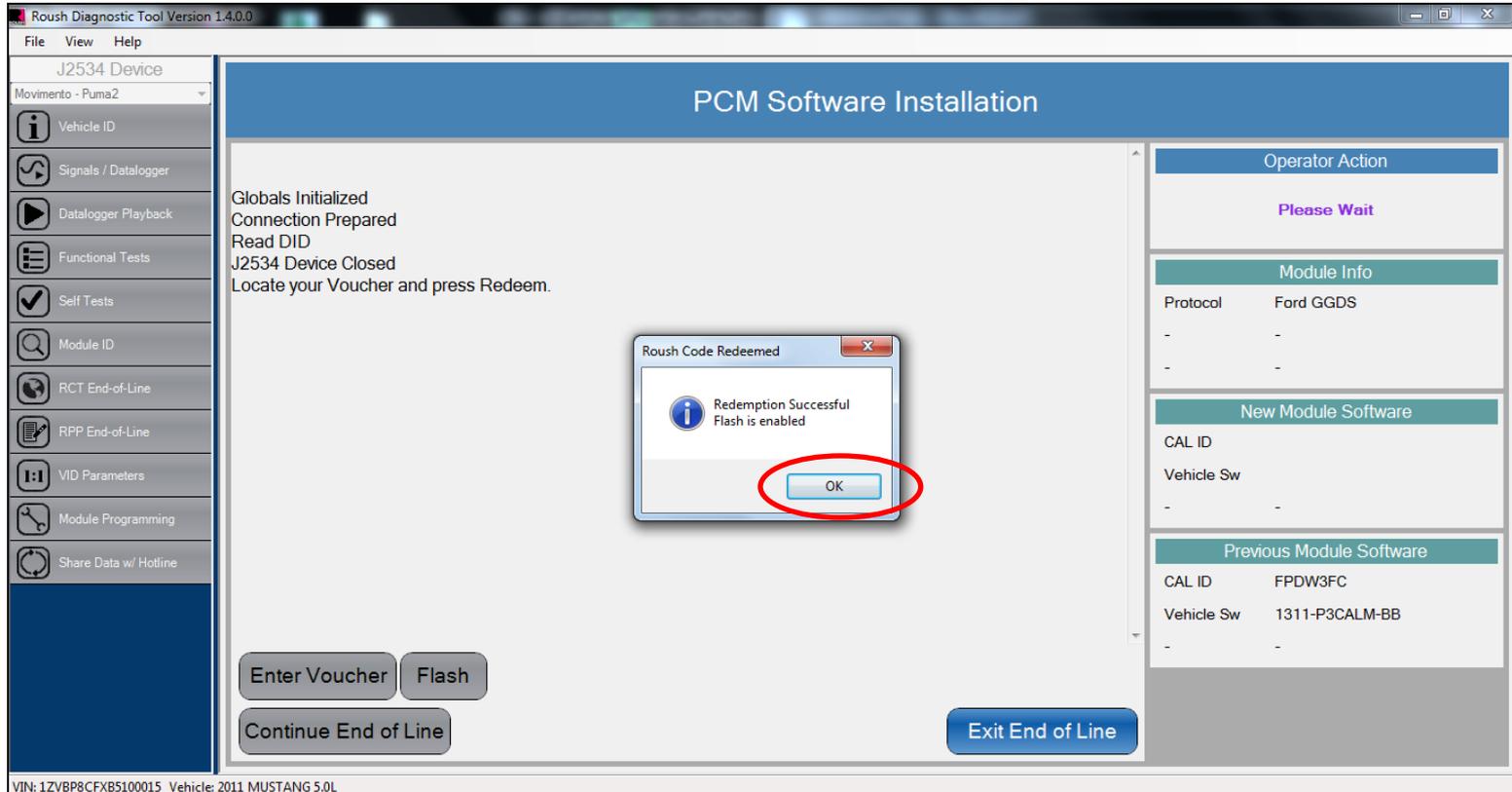
- Retrieve the Voucher Family included in your kit and enter it into the appropriate field.



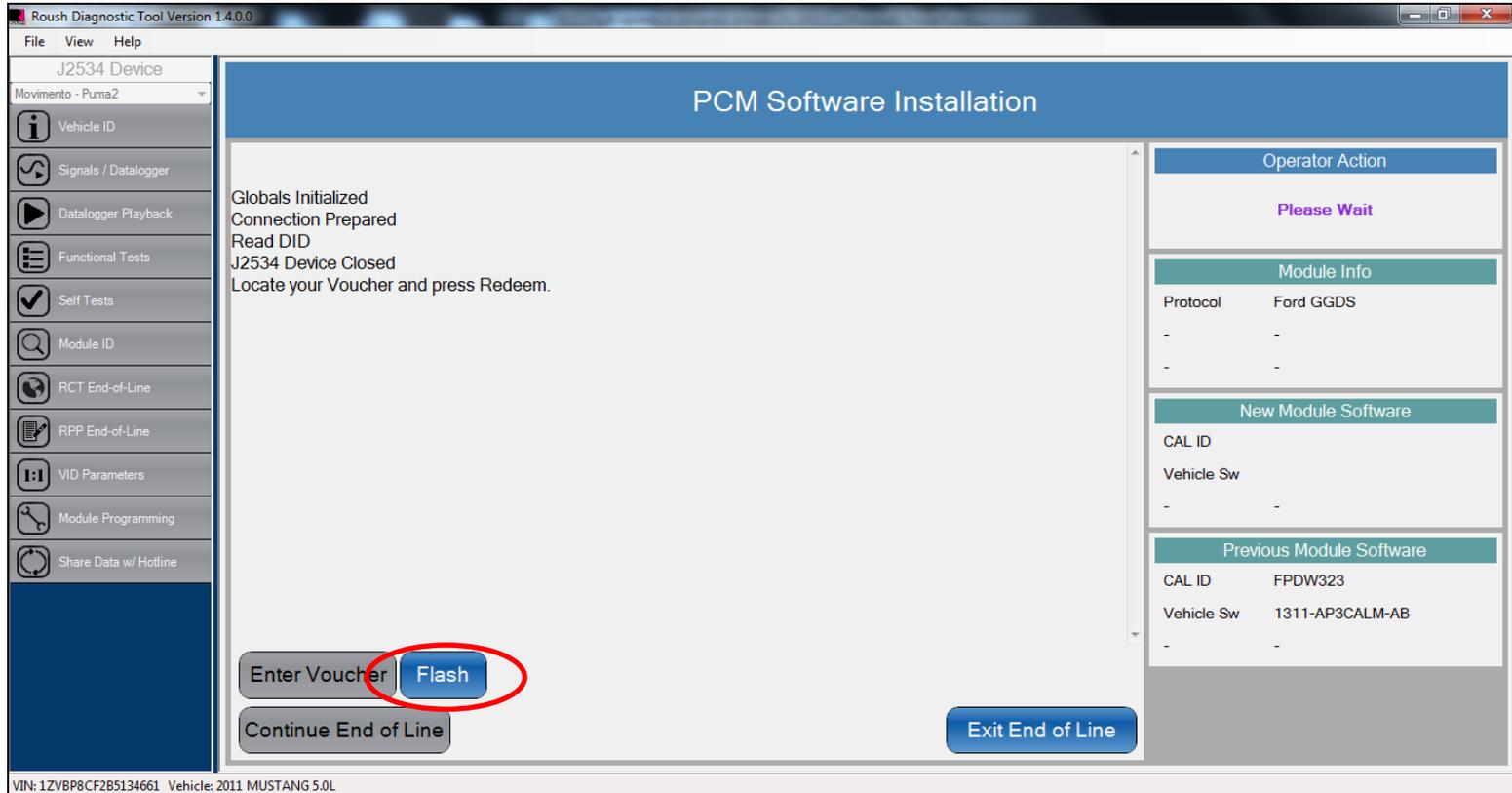
- Retrieve the (4) digit alphanumeric Tear Tag code from the sticker on the vehicle PCM and enter it into the appropriate field.



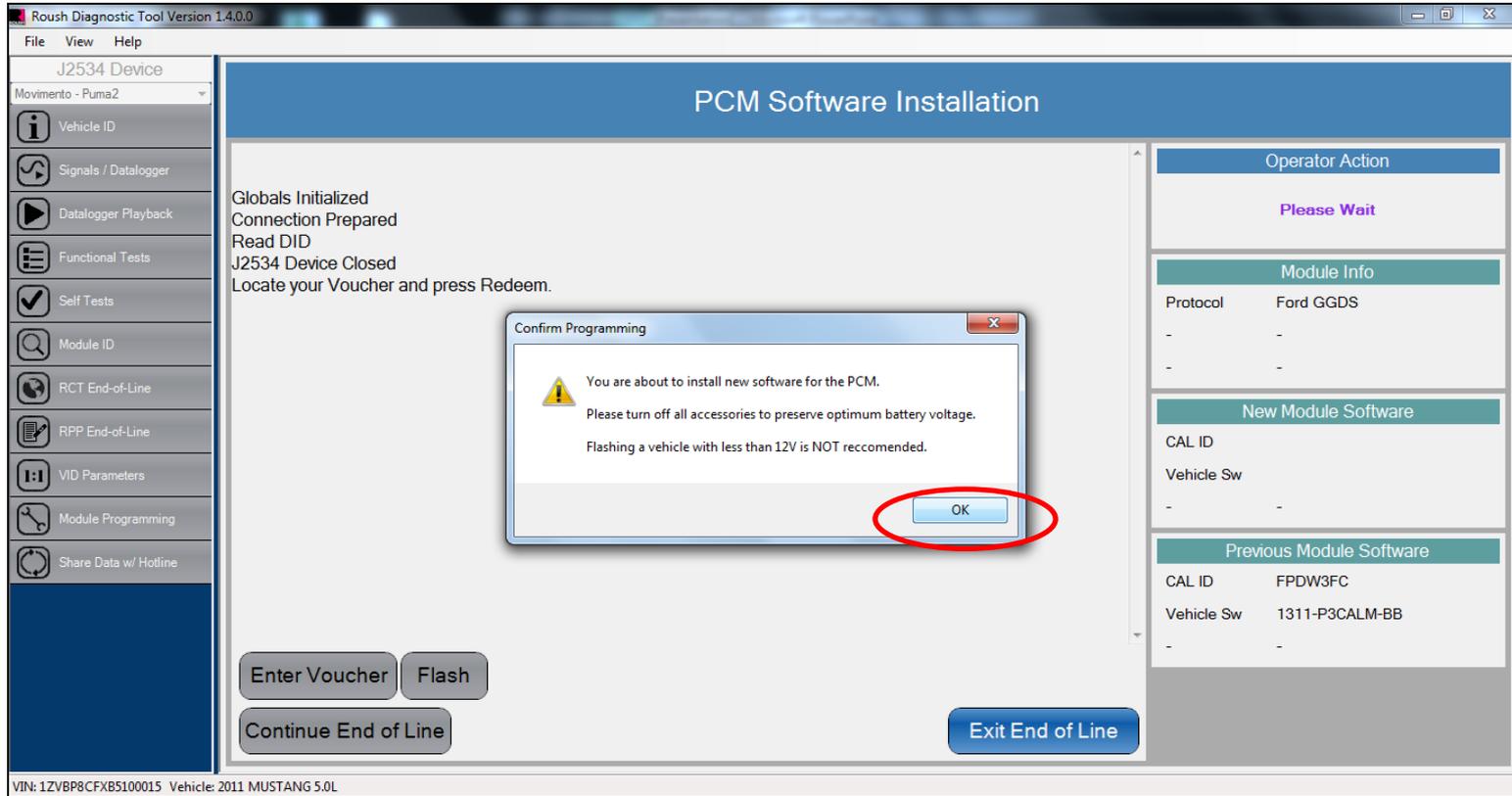
- Select “Redeem Now”.
- The software will attempt to communicate with the server and auto load the calibration file for programming.



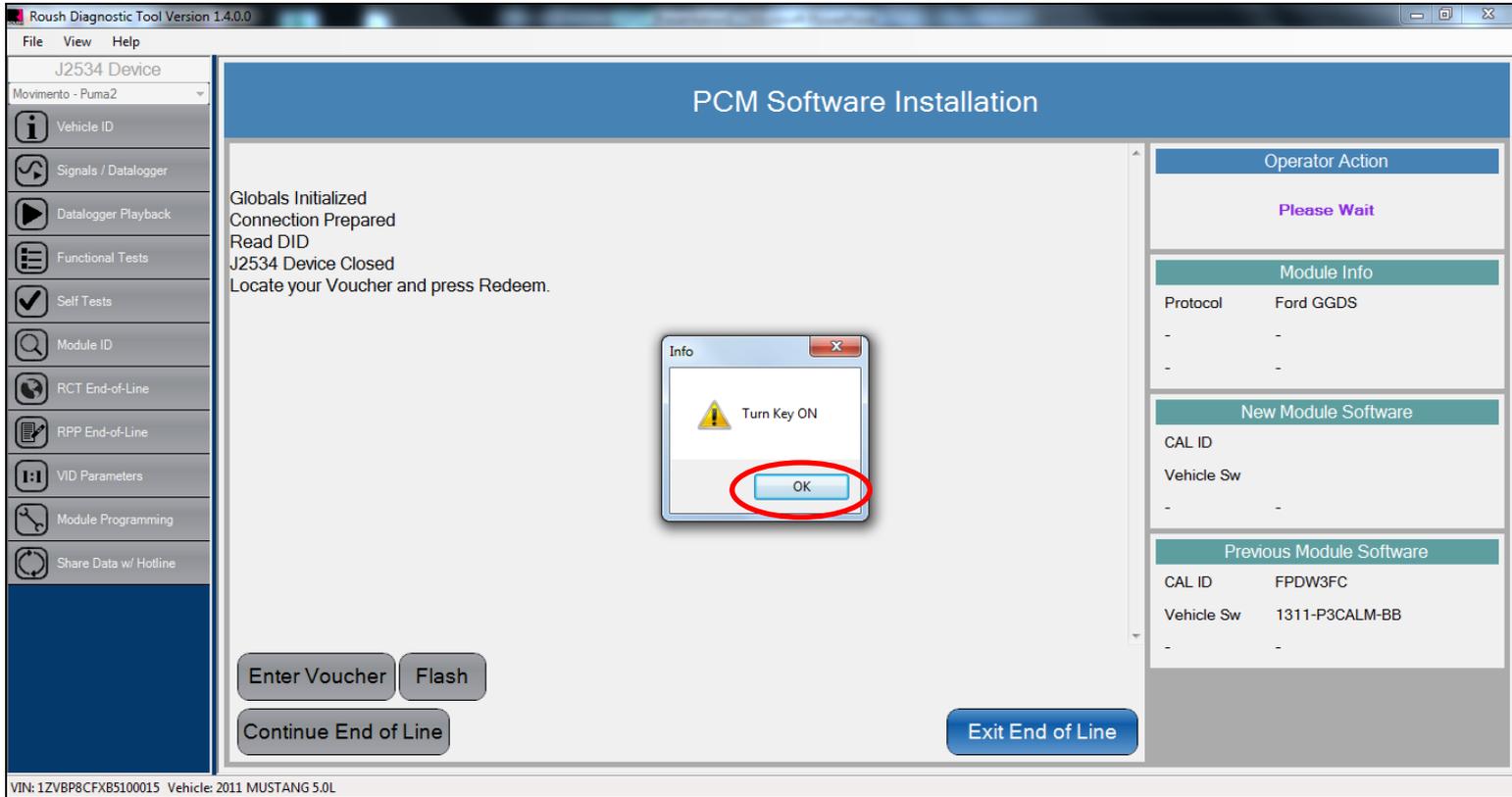
- Select “OK” once the Flash is enabled.



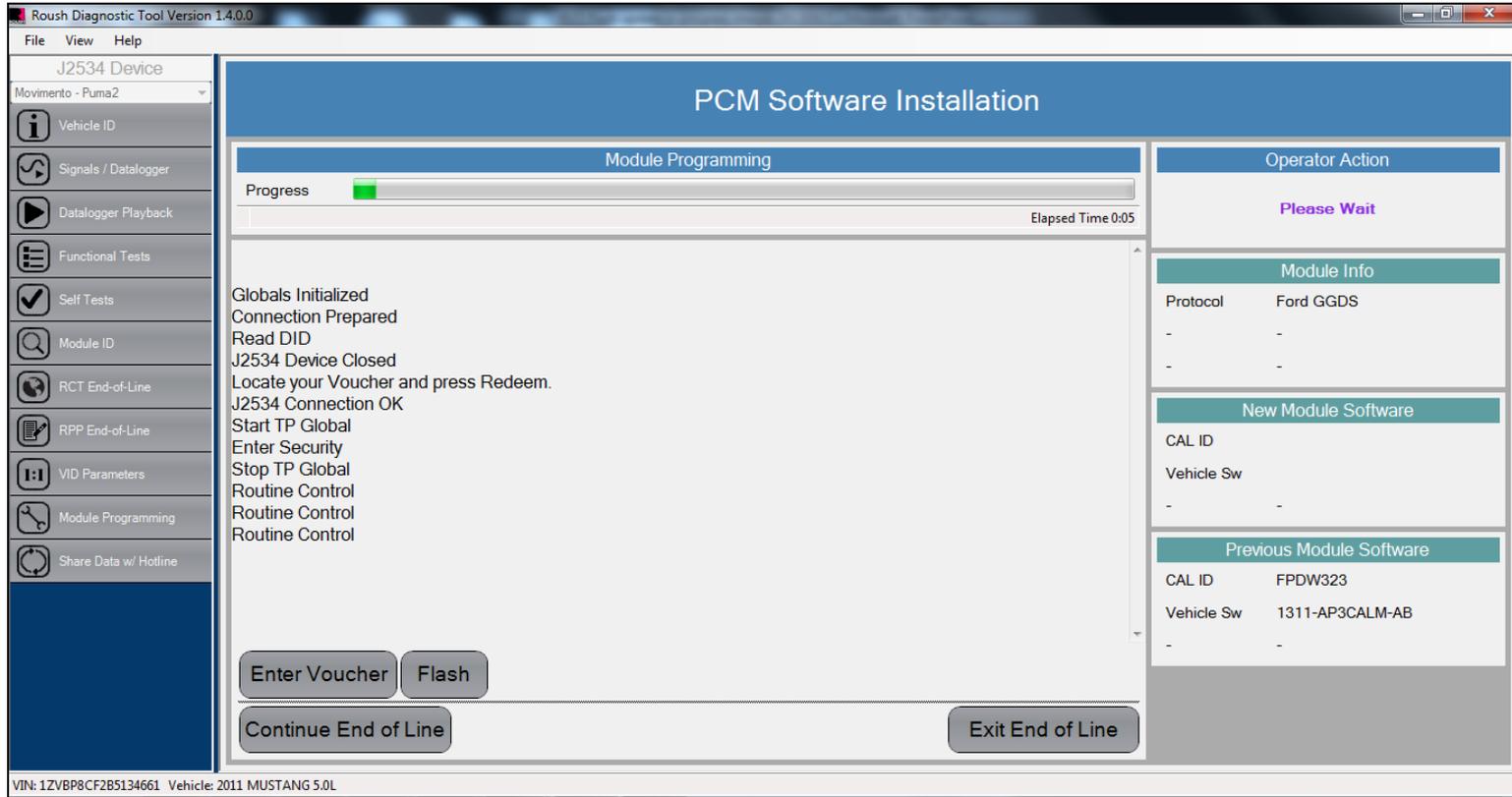
- Select "Flash" to begin module programming.



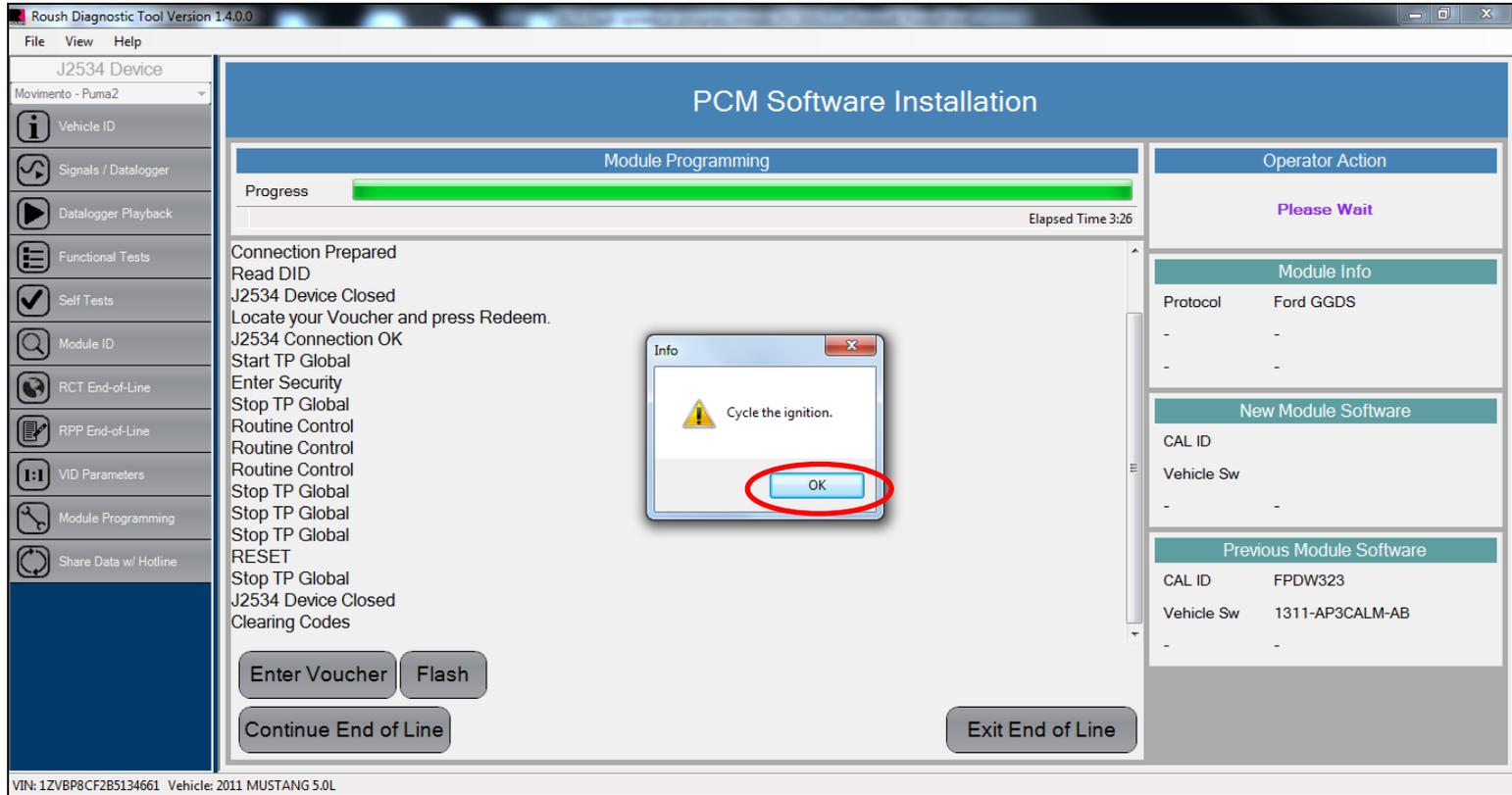
- Confirm that all accessories are off and place the vehicle on a charger if the battery voltage is below 12V.
- Select “OK” to continue flashing.



- Check that the vehicle key is in the Key On Engine Off position.
- Select "OK".



- The vehicle module will begin flashing.
- This may take 3-14 minutes depending on the speed of the vehicle communication device selected.



- Once flashing is complete, you will be prompted to cycle the ignition.
- Cycle the ignition key from Key On Engine Off to Key Off, back to Key On Engine Off and select “OK”.

Roush Diagnostic Tool Version 1.4.0.0

File View Help

J2534 Device

Movimento - Puma2

- Vehicle ID
- Signals / Datalogger
- Datalogger Playback
- Functional Tests
- Self Tests
- Module ID
- RCT End-of-Line
- RPP End-of-Line
- VID Parameters
- Module Programming
- Share Data w/ Hotline

PCM Software Installation

Module Programming

Progress

Elapsed Time 3:26

Operator Action

Cycle the ignition.

Module Info

Protocol	Ford GGDS
-	-
-	-

New Module Software

CAL ID	FPDW3FC
Vehicle Sw	1311-P3CALM-BB
-	-

Previous Module Software

CAL ID	FPDW323
Vehicle Sw	1311-AP3CALM-AB
-	-

Locate your Voucher and press Redeem.

J2534 Connection OK
 Start TP Global
 Enter Security
 Stop TP Global
 Routine Control
 Routine Control
 Routine Control
 Stop TP Global
 Stop TP Global
 Stop TP Global
 RESET
 Stop TP Global
 J2534 Device Closed
 Clearing Codes
 Read DID
 Stop TP Global
 J2534 Device Closed

Enter Voucher Flash

Continue End of Line

Exit End of Line

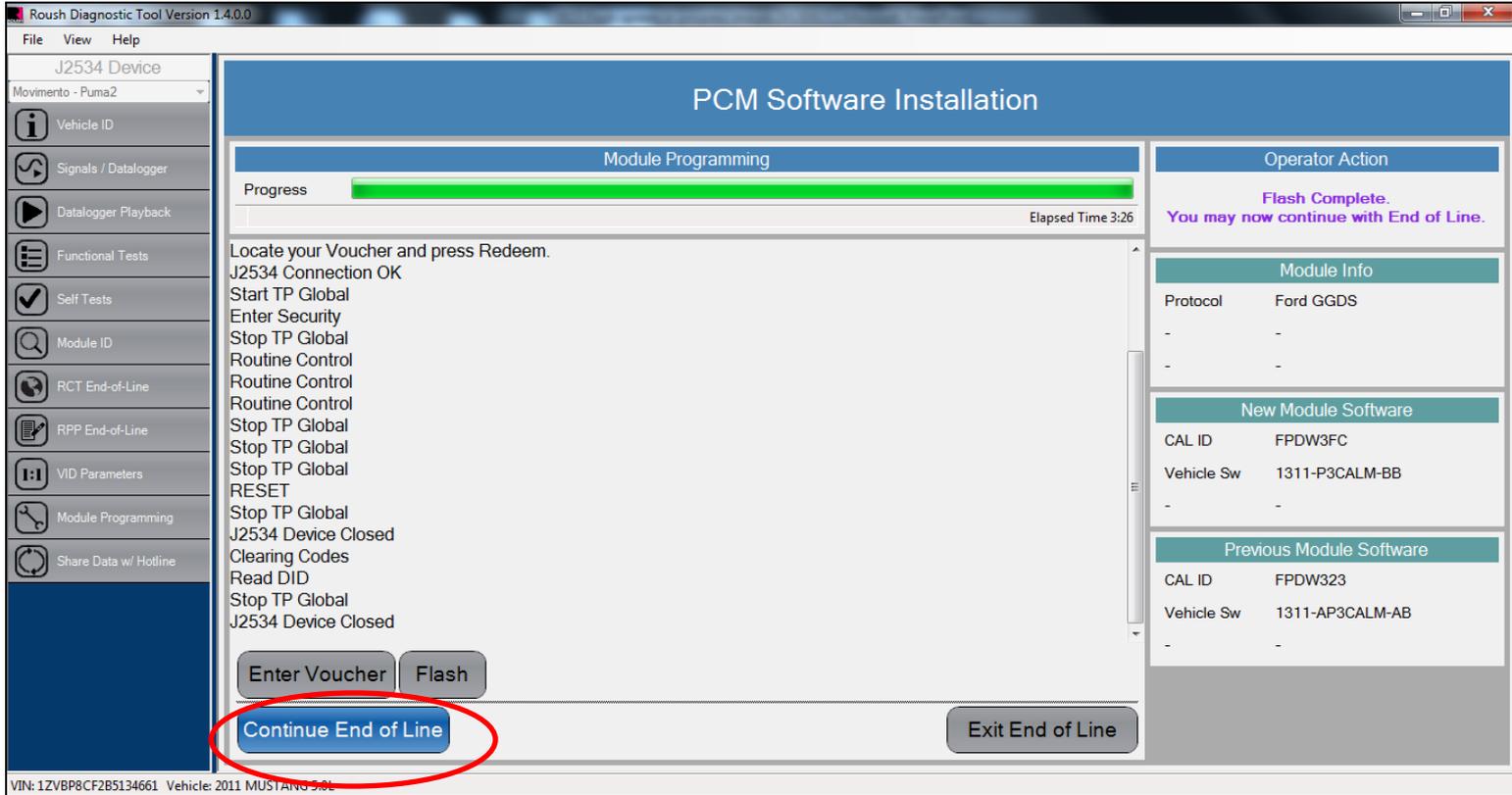
Info

 Flash Complete.
You may now continue with End of Line.

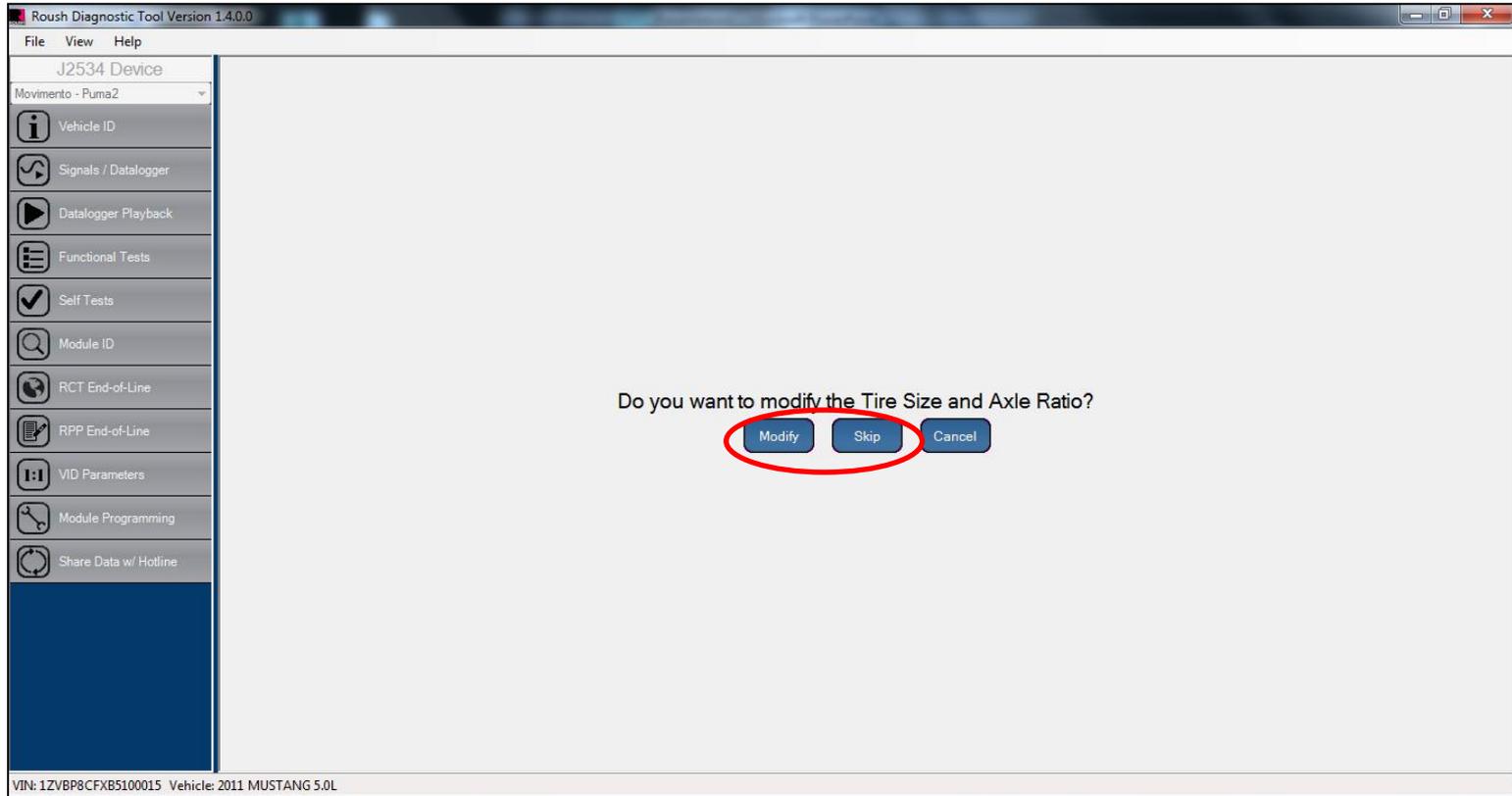
OK

VIN: 1ZVBP8CF2B5134661 Vehicle: 2011 MUSTANG 5.0L

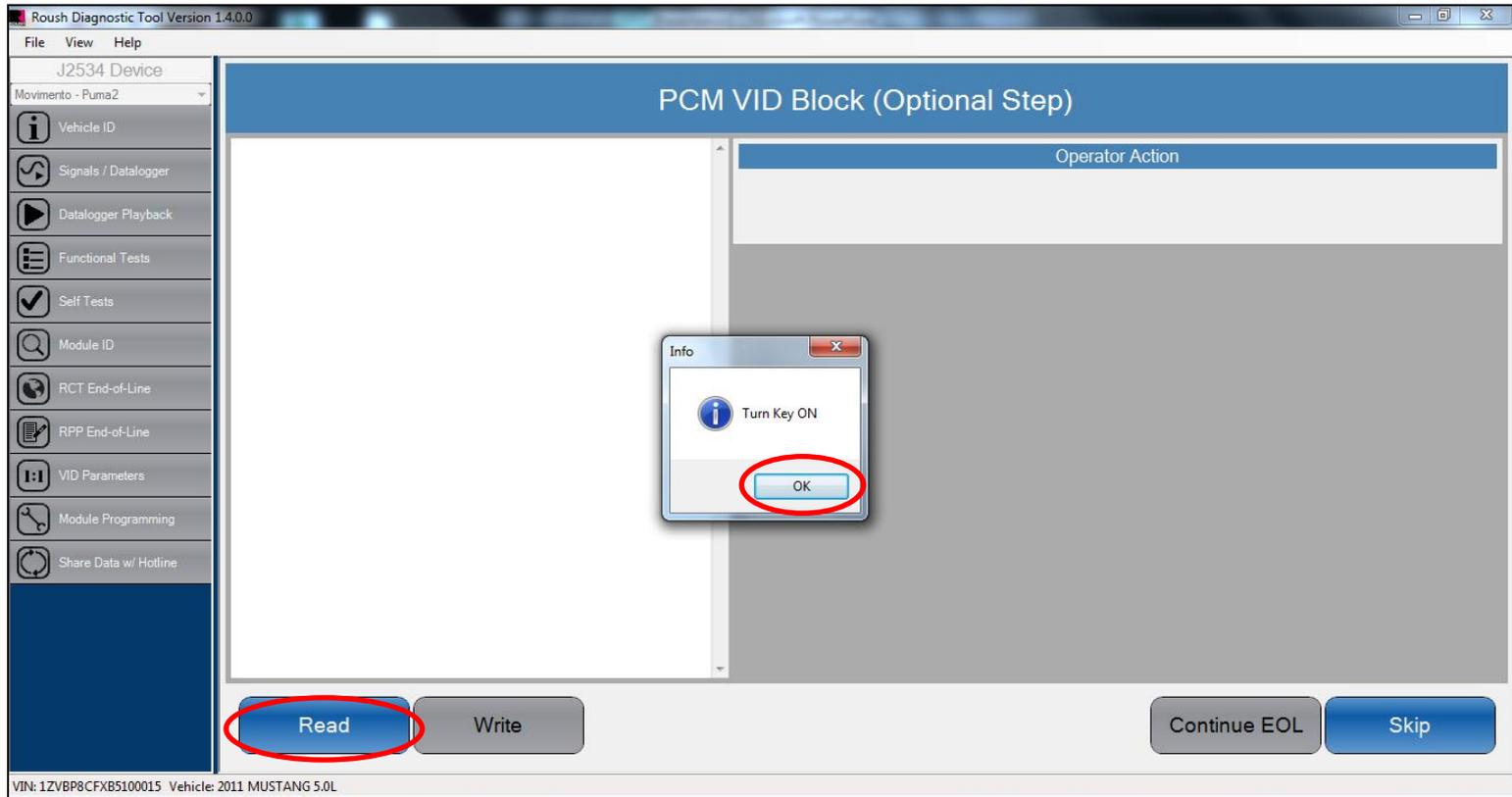
- Select "OK".



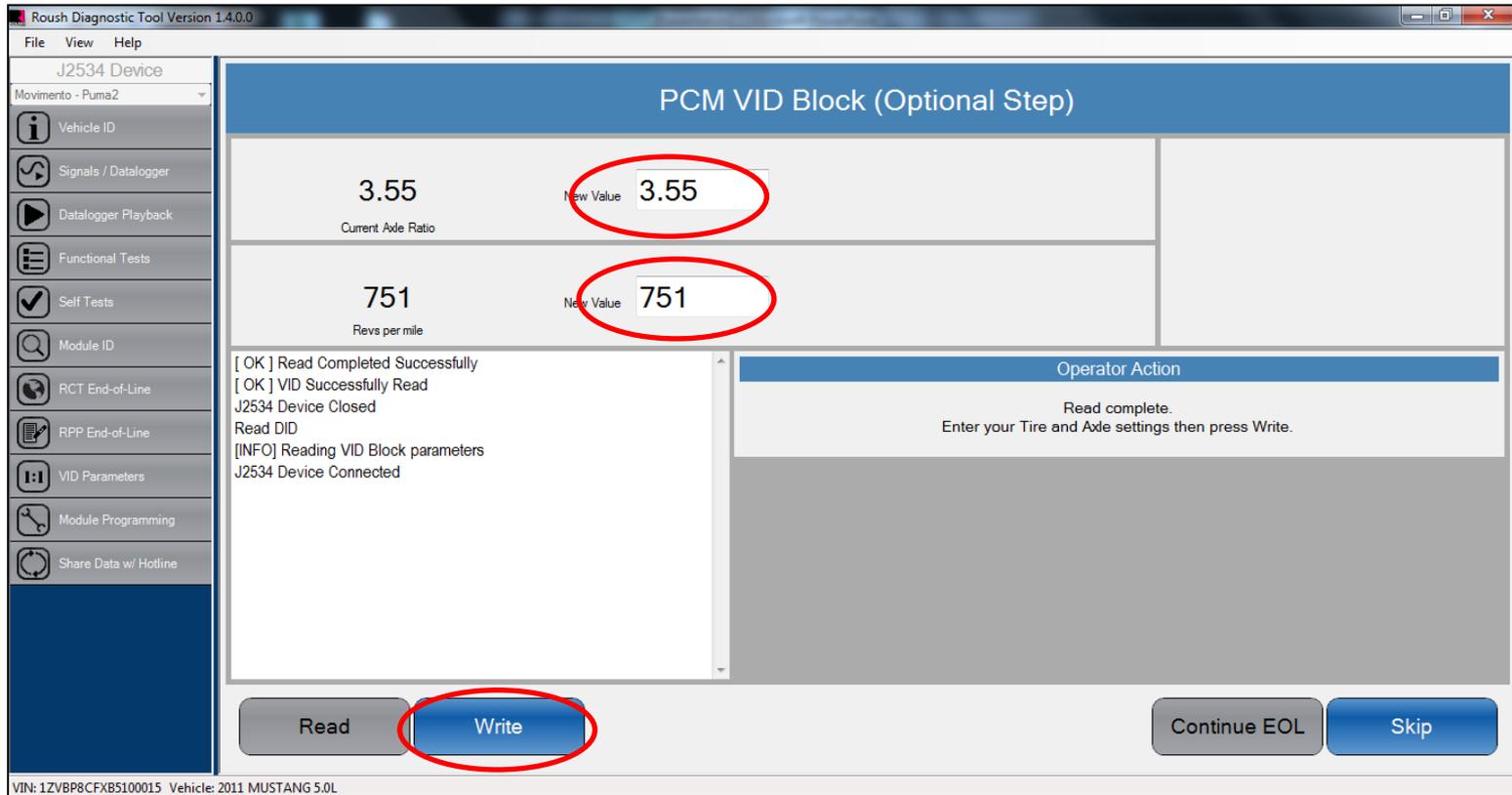
- Continue to clear DTC's and module self tests by selecting "Continue End of Line".



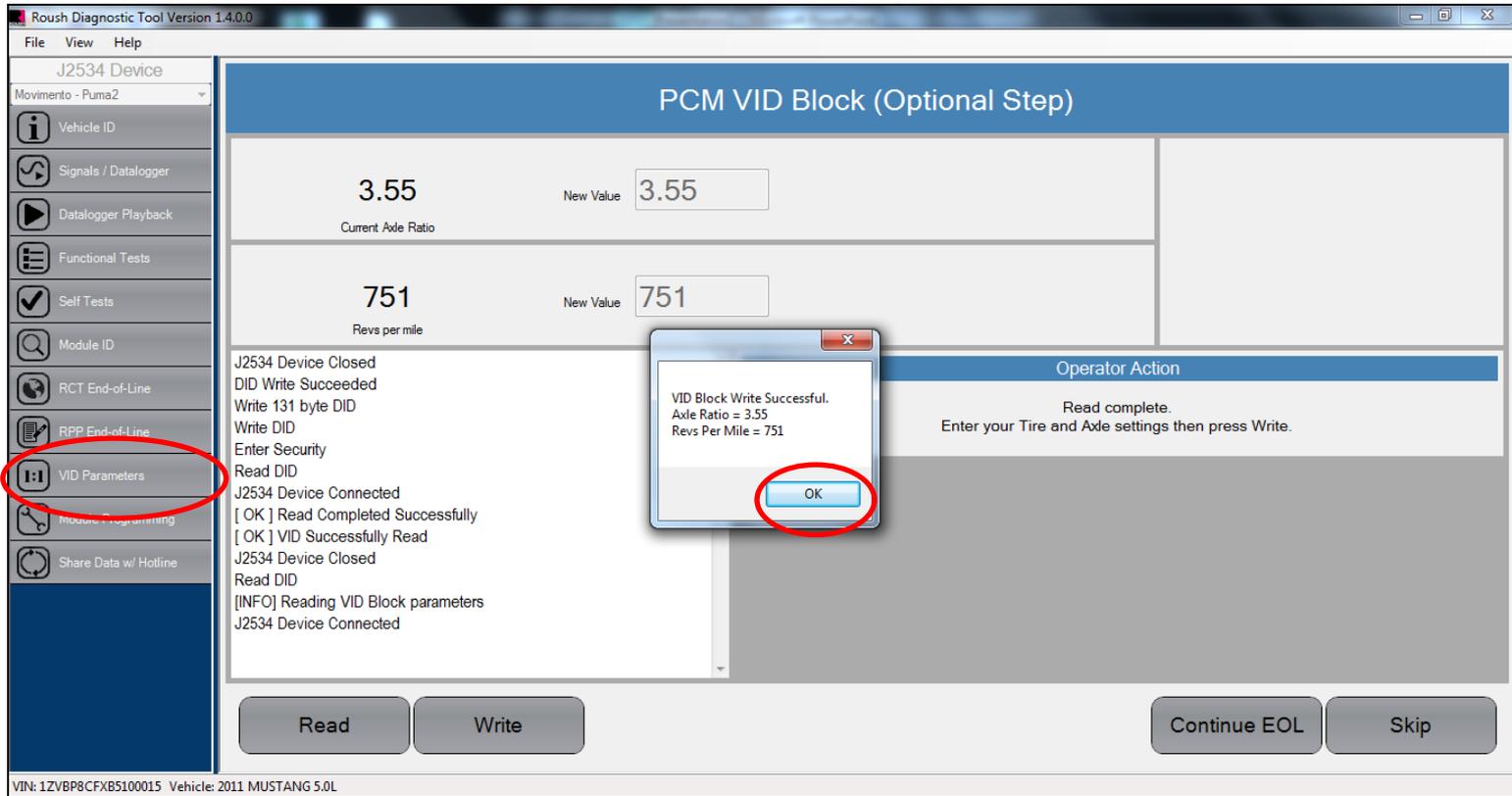
- You will be prompted for Tire/Axle Size Modification
- If installing a new axle or aftermarket tire size, select “Modify.”
- If not installing a new axle or tire size, select “Skip” and proceed to page 52.



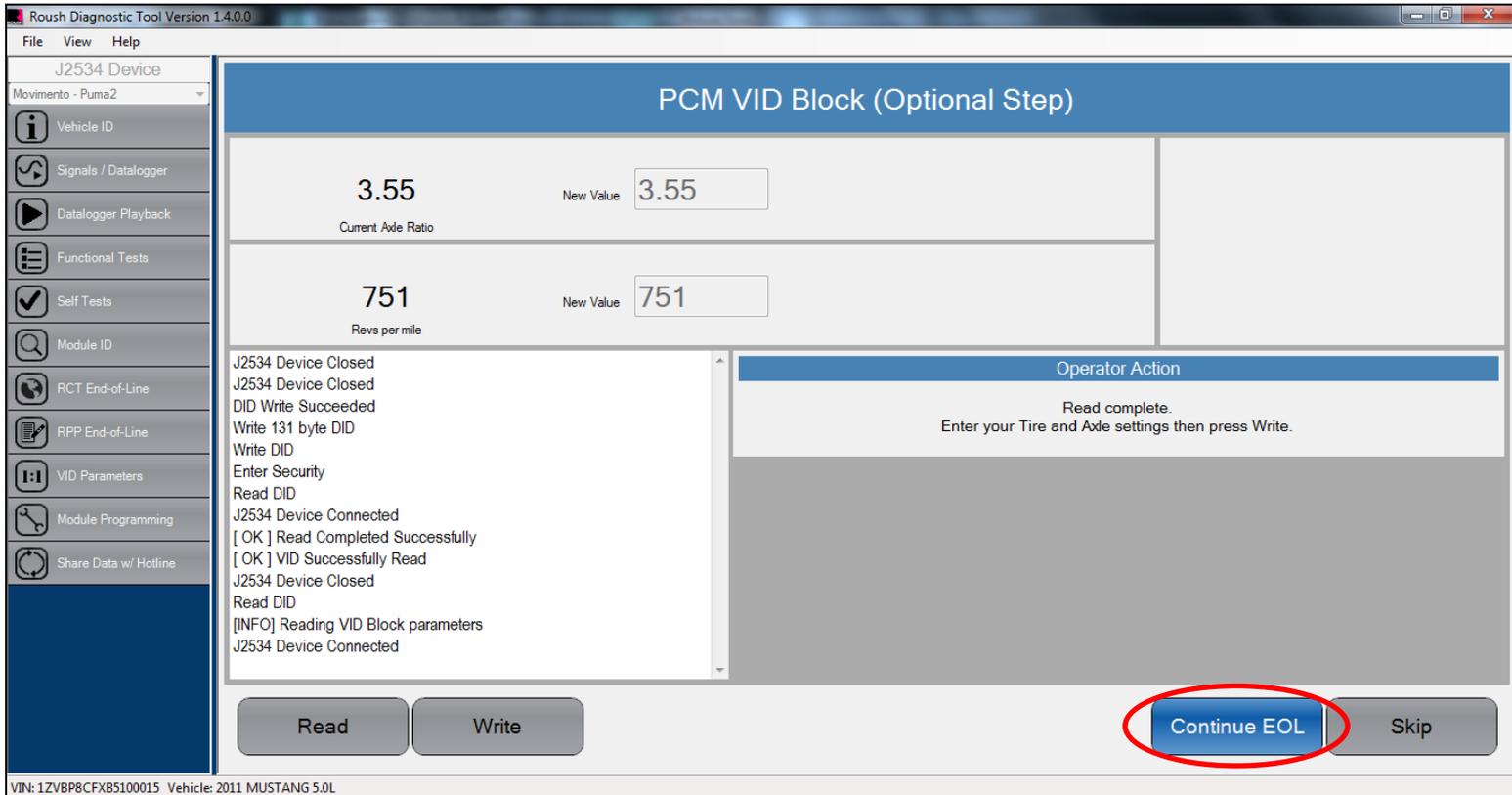
- Select “Read” to proceed with Tire Size/Axle Ratio modification.
- Turn the ignition key to the on position.
- Select “OK”.



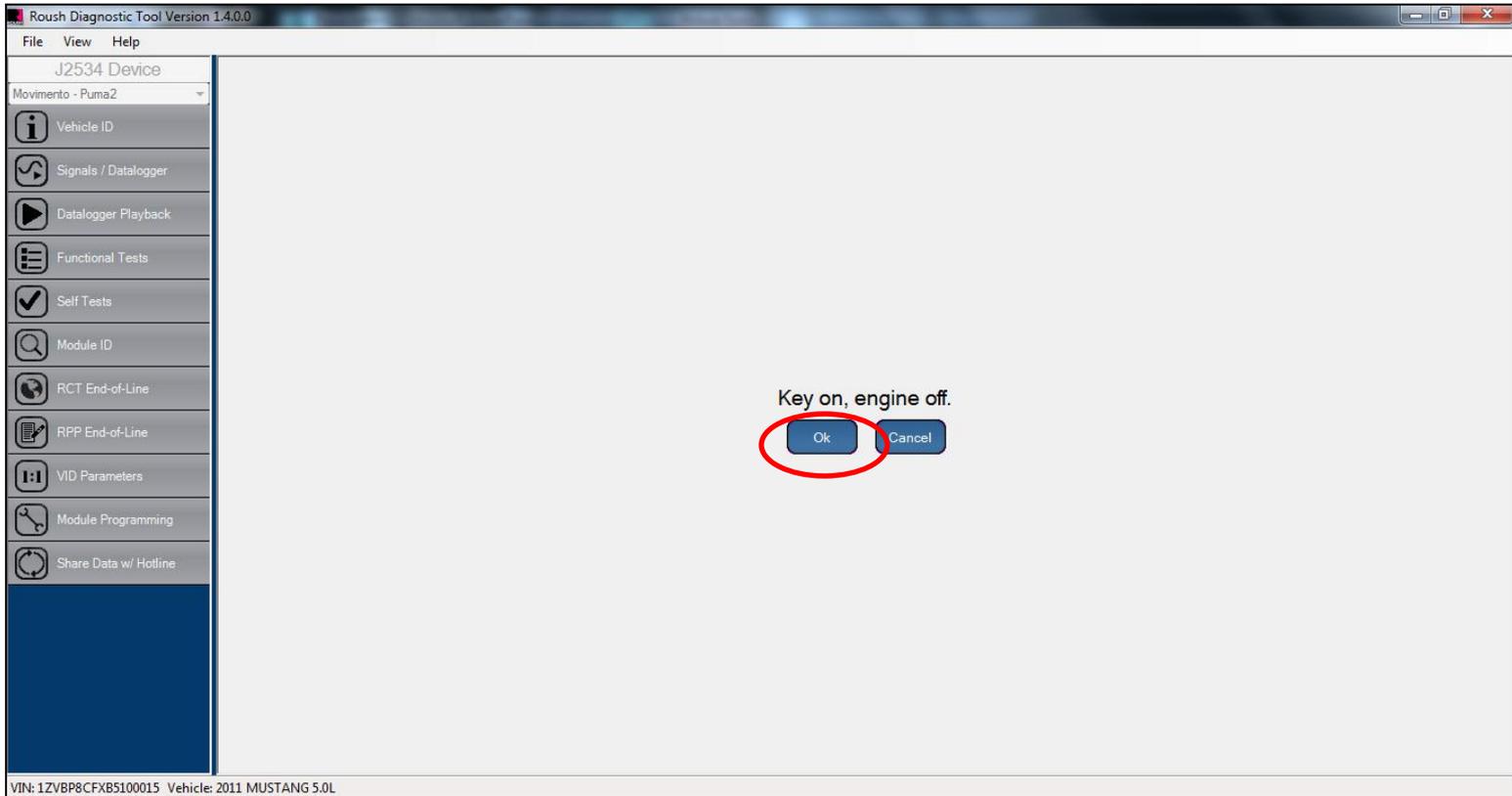
- Once the current Tire Size/Axle Ratio values are displayed, enter the appropriate axle ratio value and/or the manufacturer recommended tire revs per mile to proceed with Tire Size/Axle Ratio modification.
- Select “Write” once the values have been entered.
- If no modifications have been performed, leave the values and select “Skip”.



- Once the values have been written to the module, verify the values are correct and select “OK”.
- If the values are incorrect, proceed with the EOL process and return to the VID Parameters procedure by selecting the VID Parameters tab on the left.



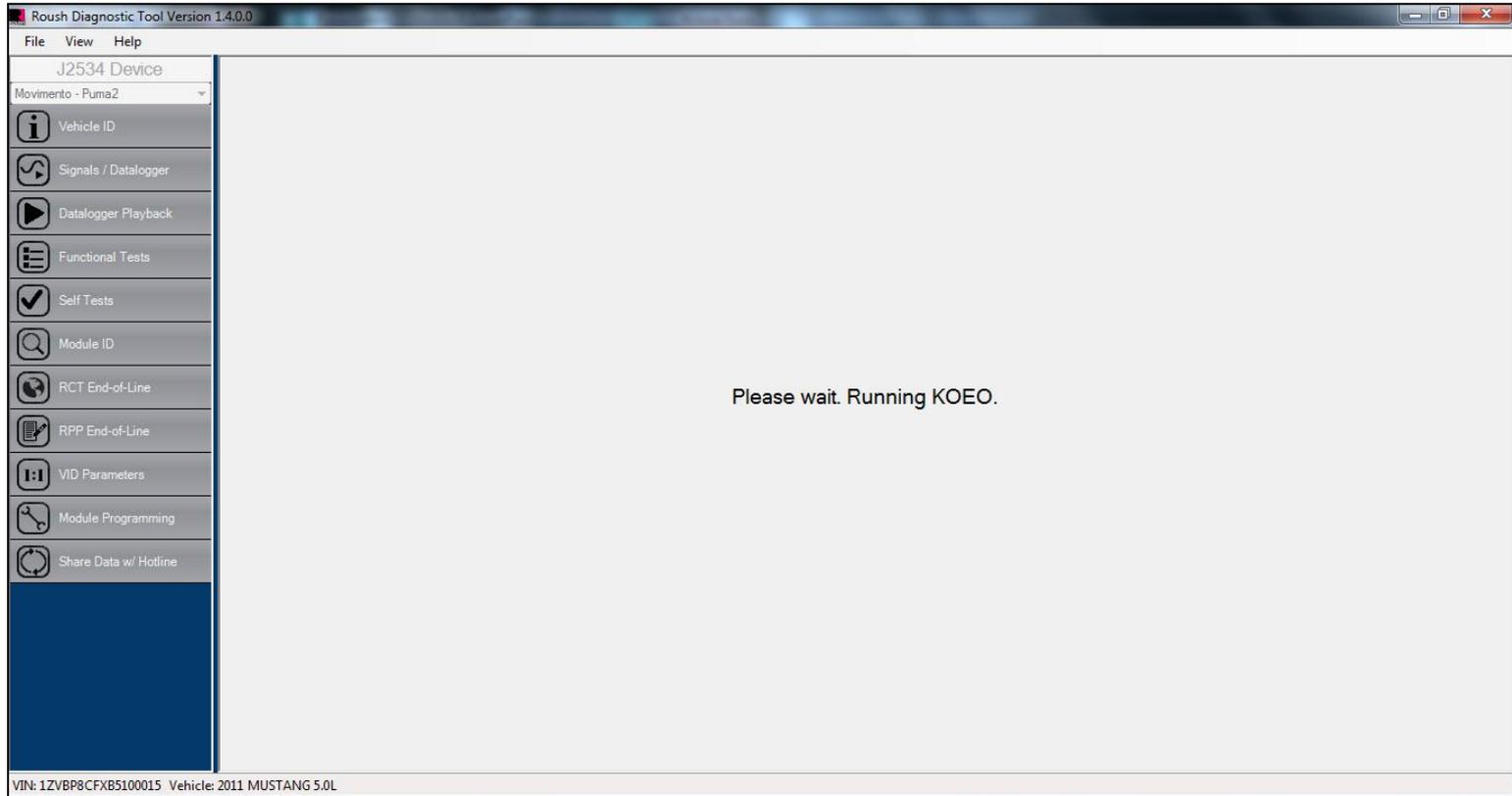
- Select “Continue EOL”.



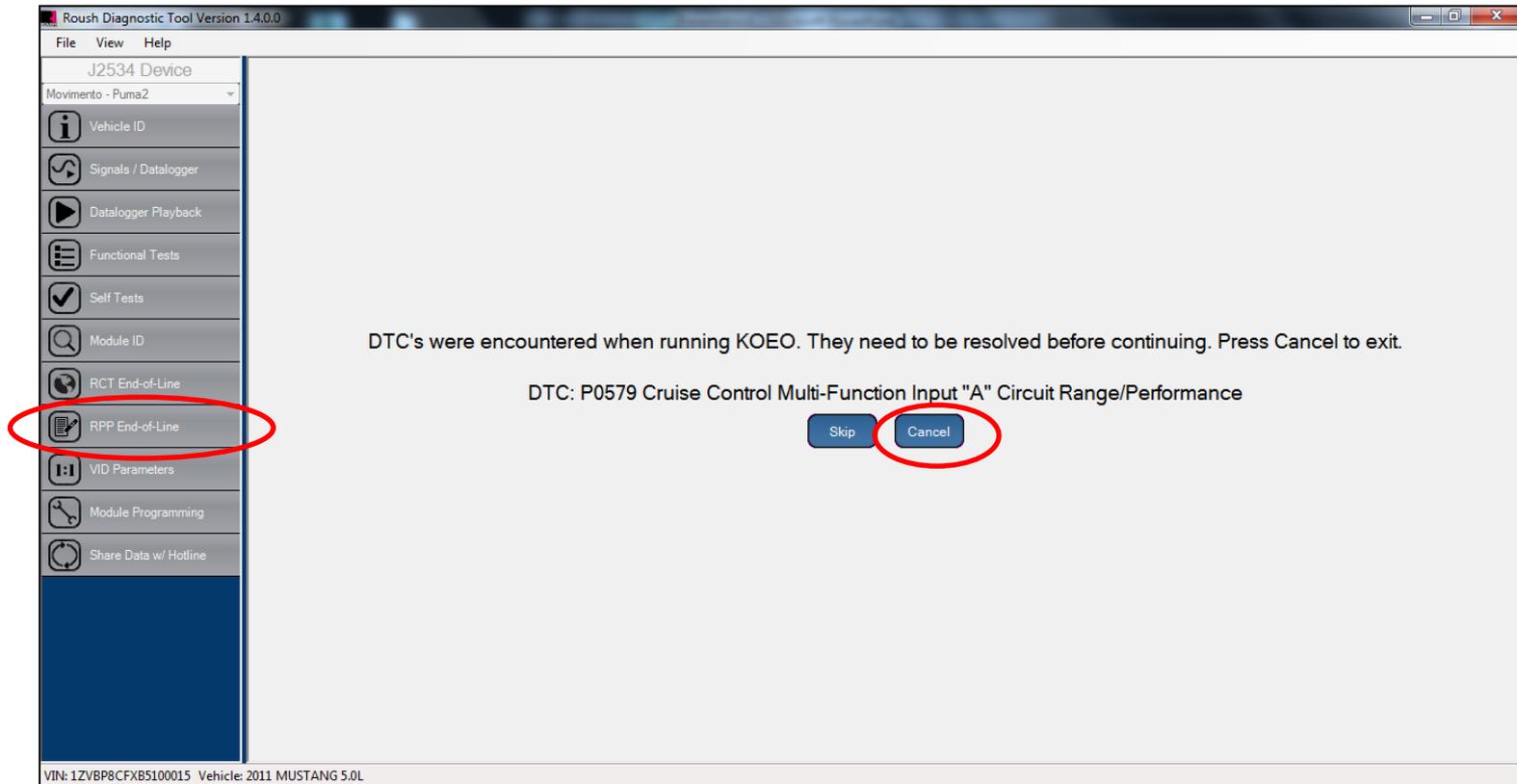
- Verify the ignition is in the Key On, Engine Off position. Select “Ok”.



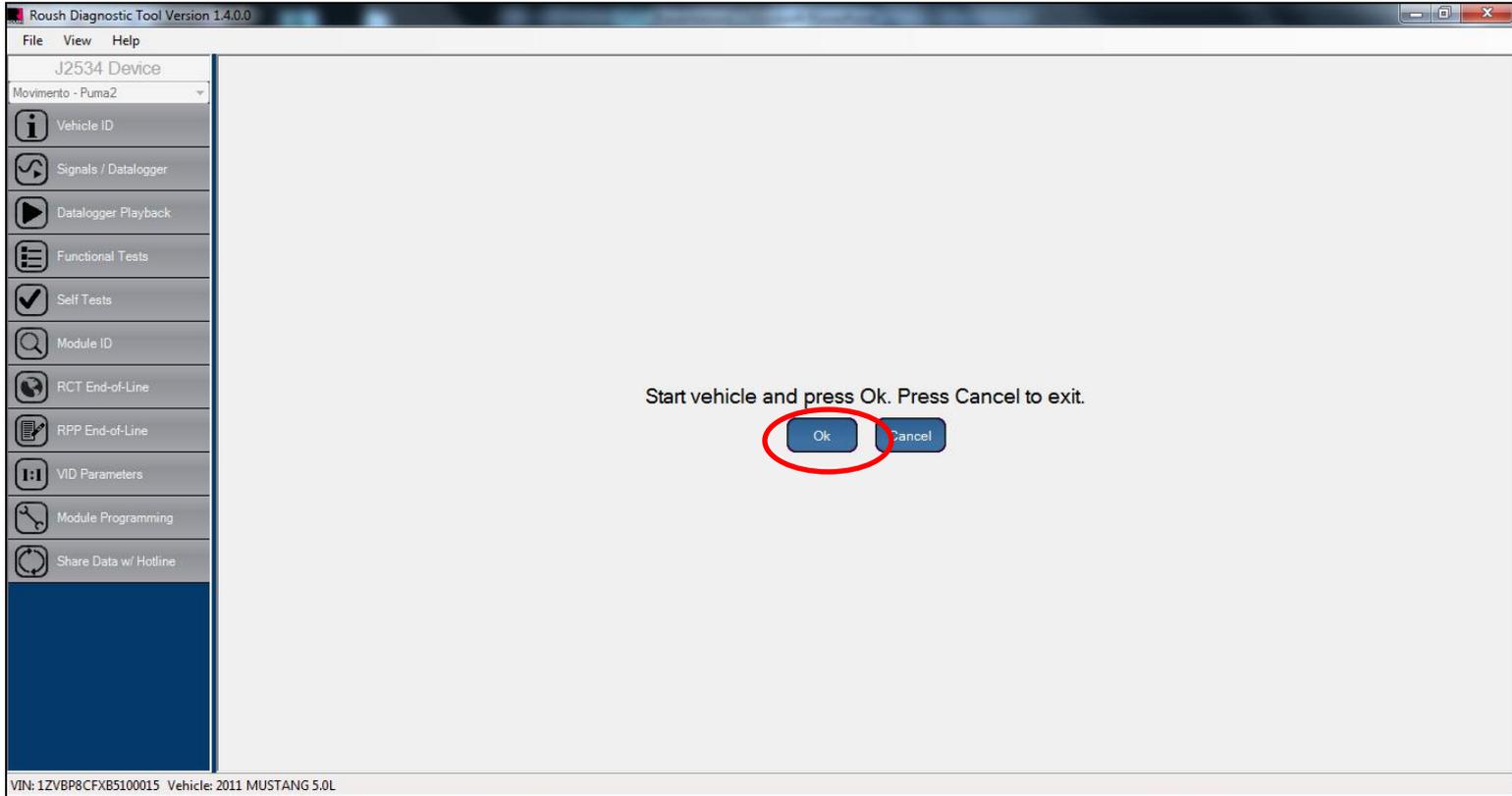
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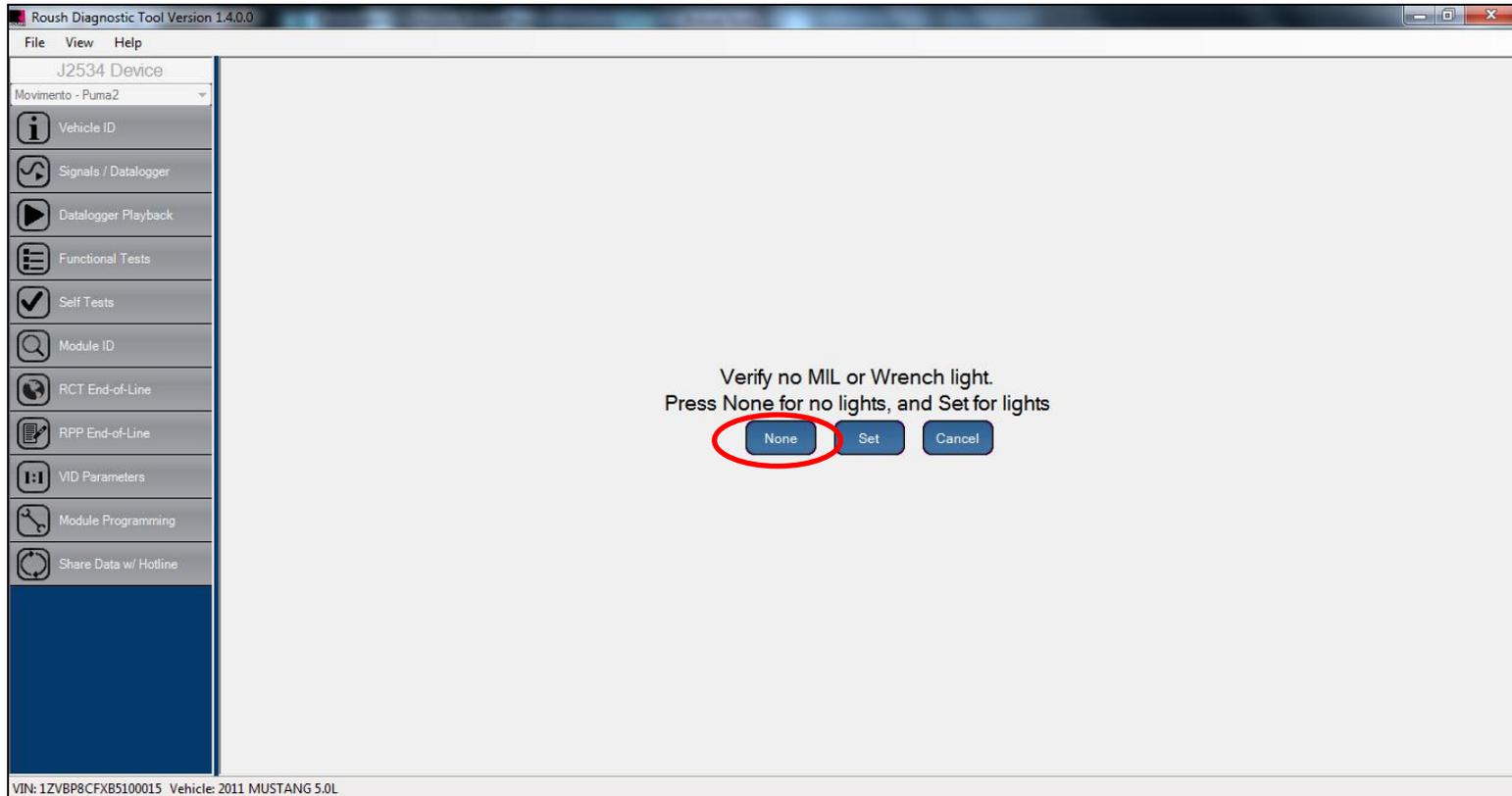
- The vehicle will perform a Key On, Engine Off test.



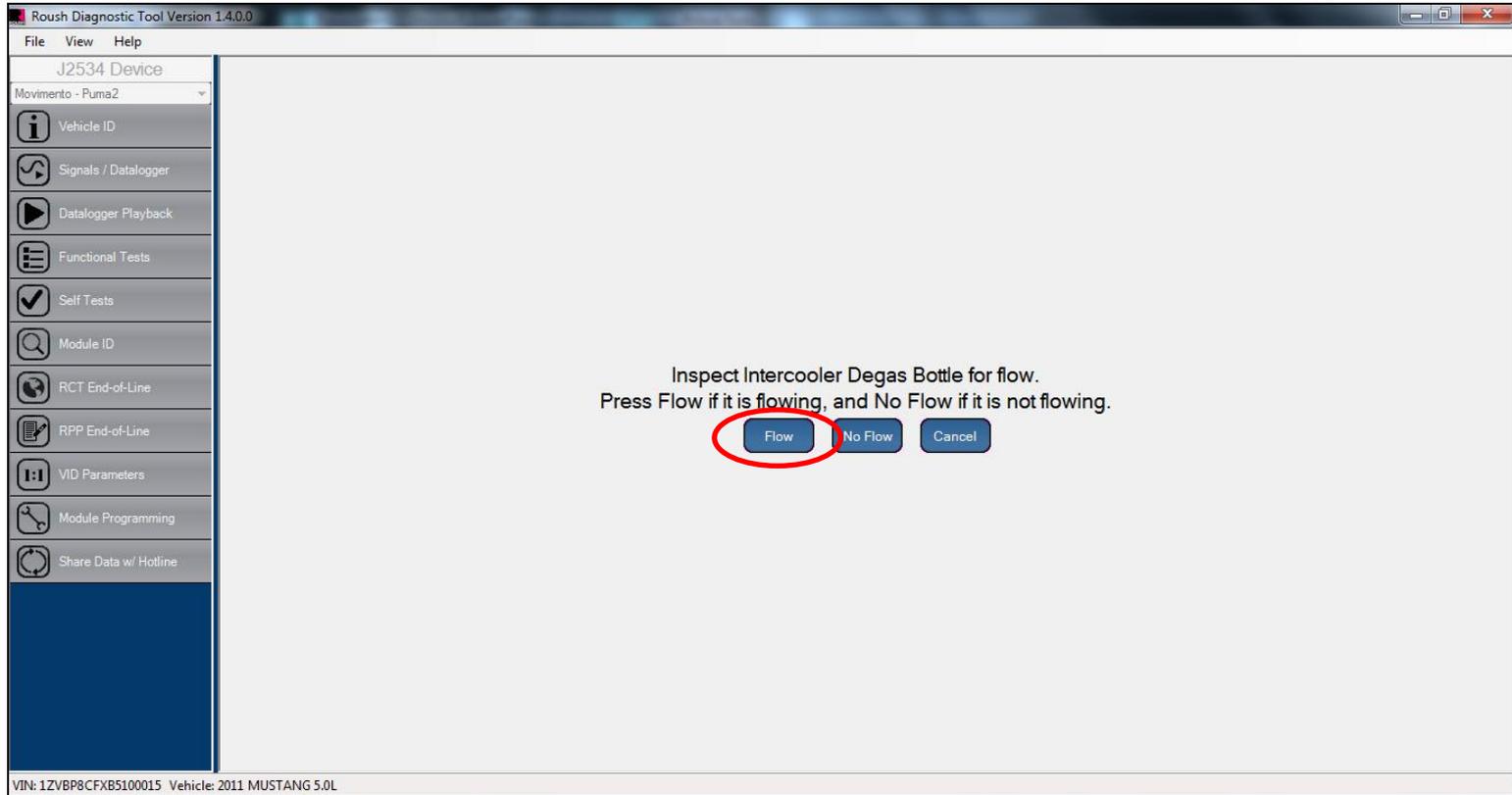
- If any Diagnostic Trouble Codes (DTC's) are present, record the DTC and select "Cancel".
- Diagnose and repair the issue, then restart the End of Line (EOL) procedure by selecting the "RPP End-of-Line" tab on the left to pass the EOL process. (Refer to page 8 to restart the EOL process)
- If no codes are present, continue to the next page.



- Start the vehicle and press “Ok”.



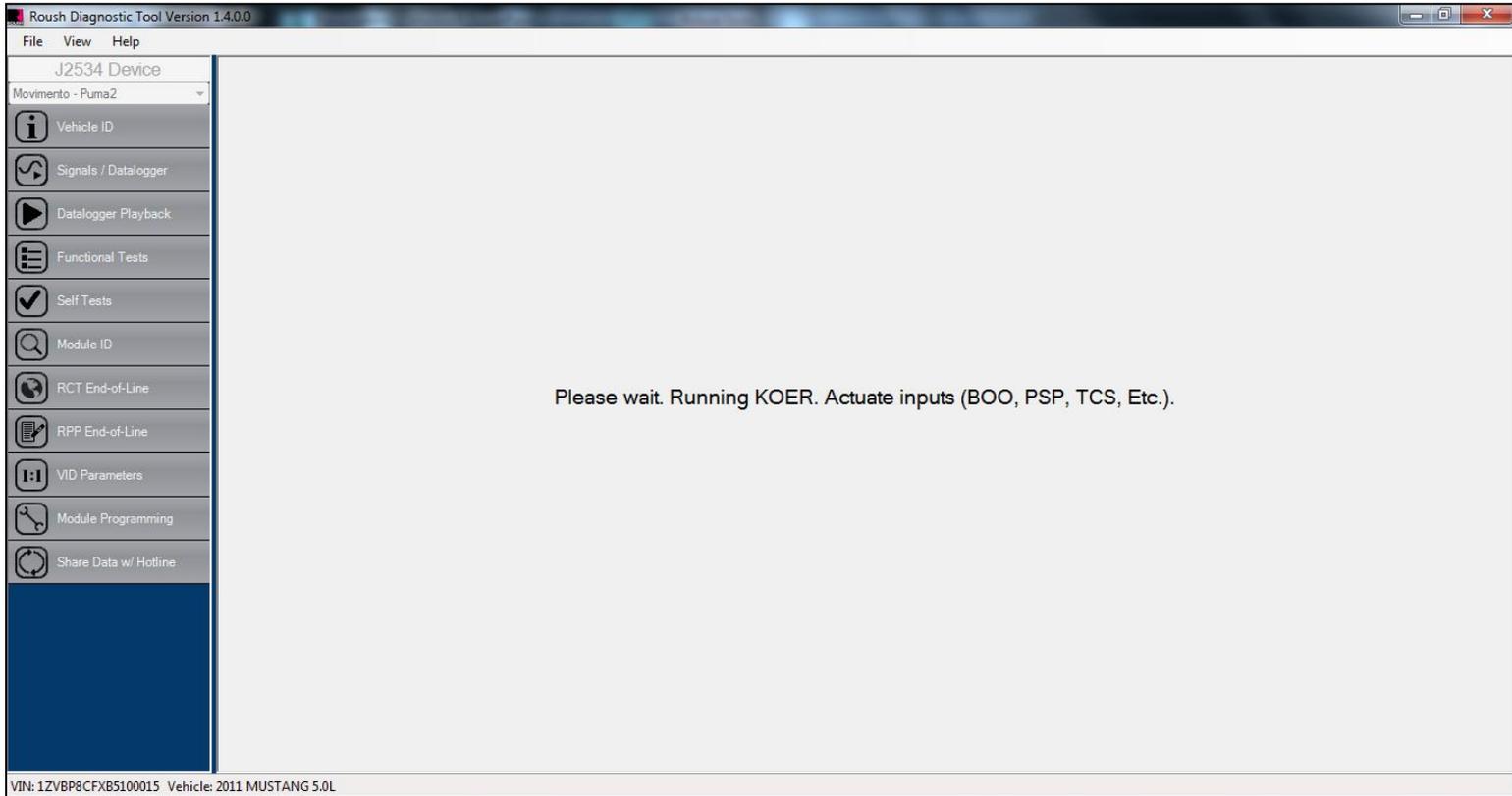
- Verify the MIL and/or Wrench light have not been set, if no MIL or Wrench light have been set, select “None”.
- If a MIL and/or Wrench light have been set, select “Set”, then proceed with normal diagnosis to repair the issue. Once the issue has been resolved, restart this procedure.



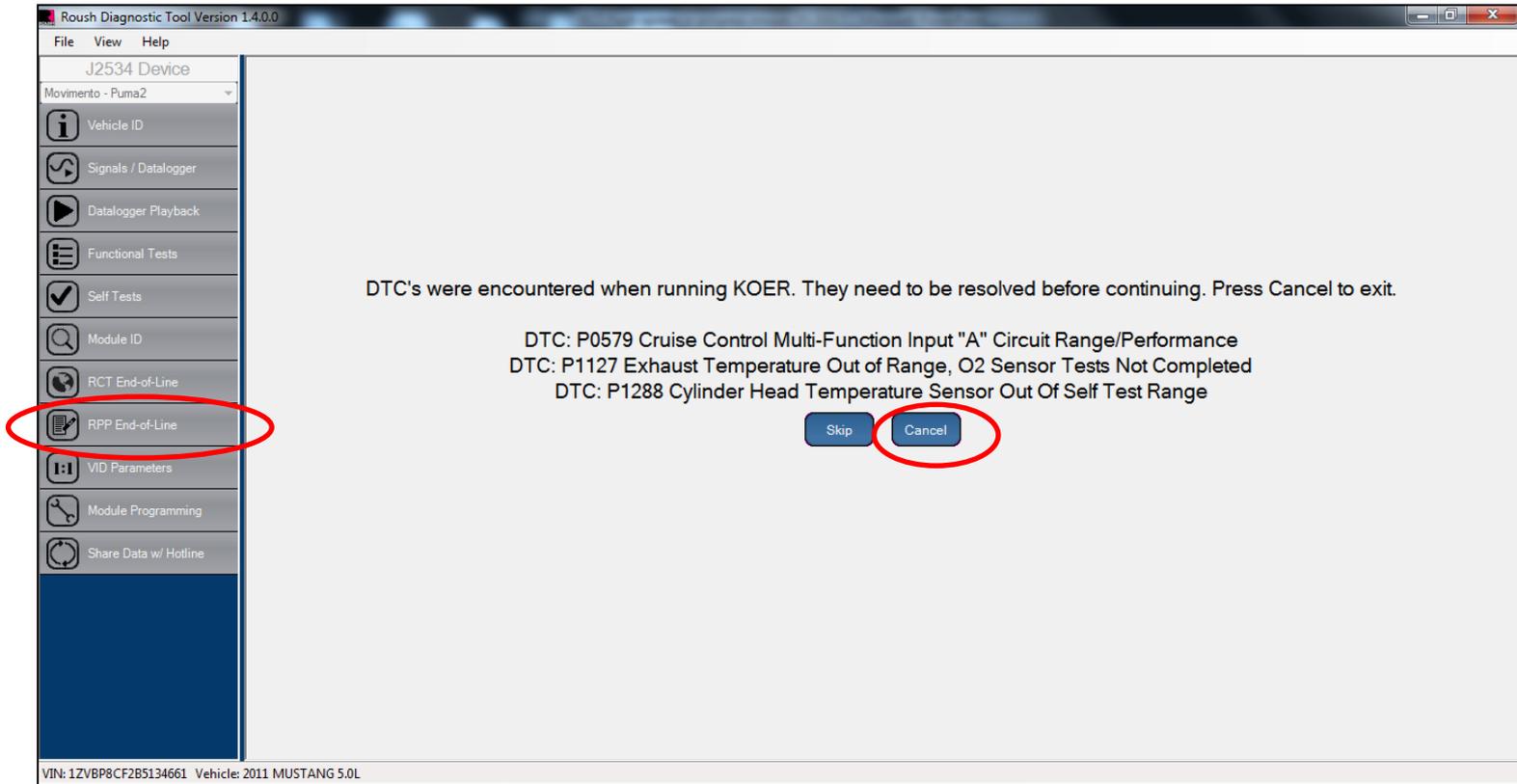
- Inspect the supercharger intercooler degas bottle for flow.
- If the coolant is flowing, select “Flow”. If the coolant is not flowing, you will have to diagnose and correct the problem before completing the procedure.



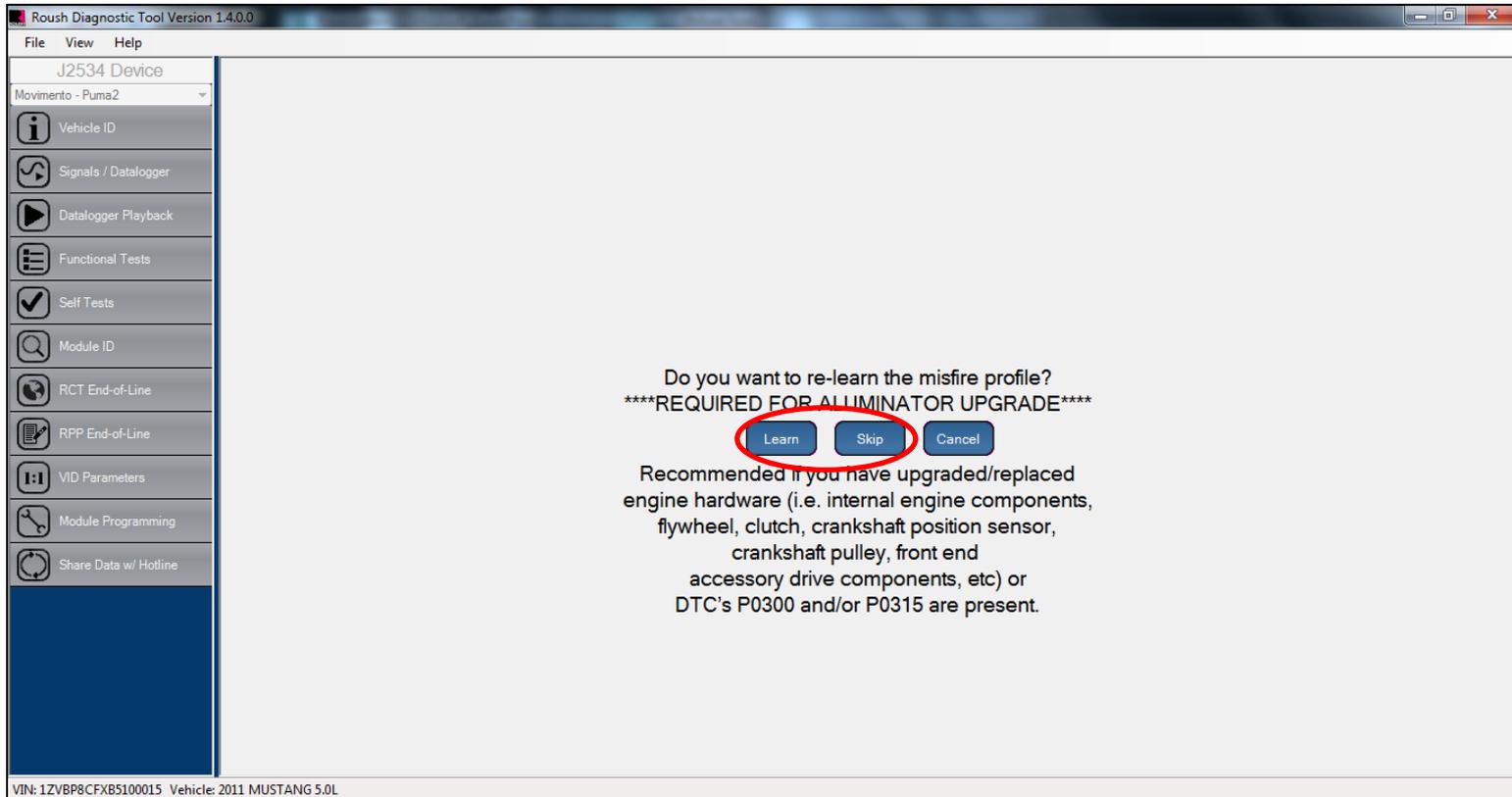
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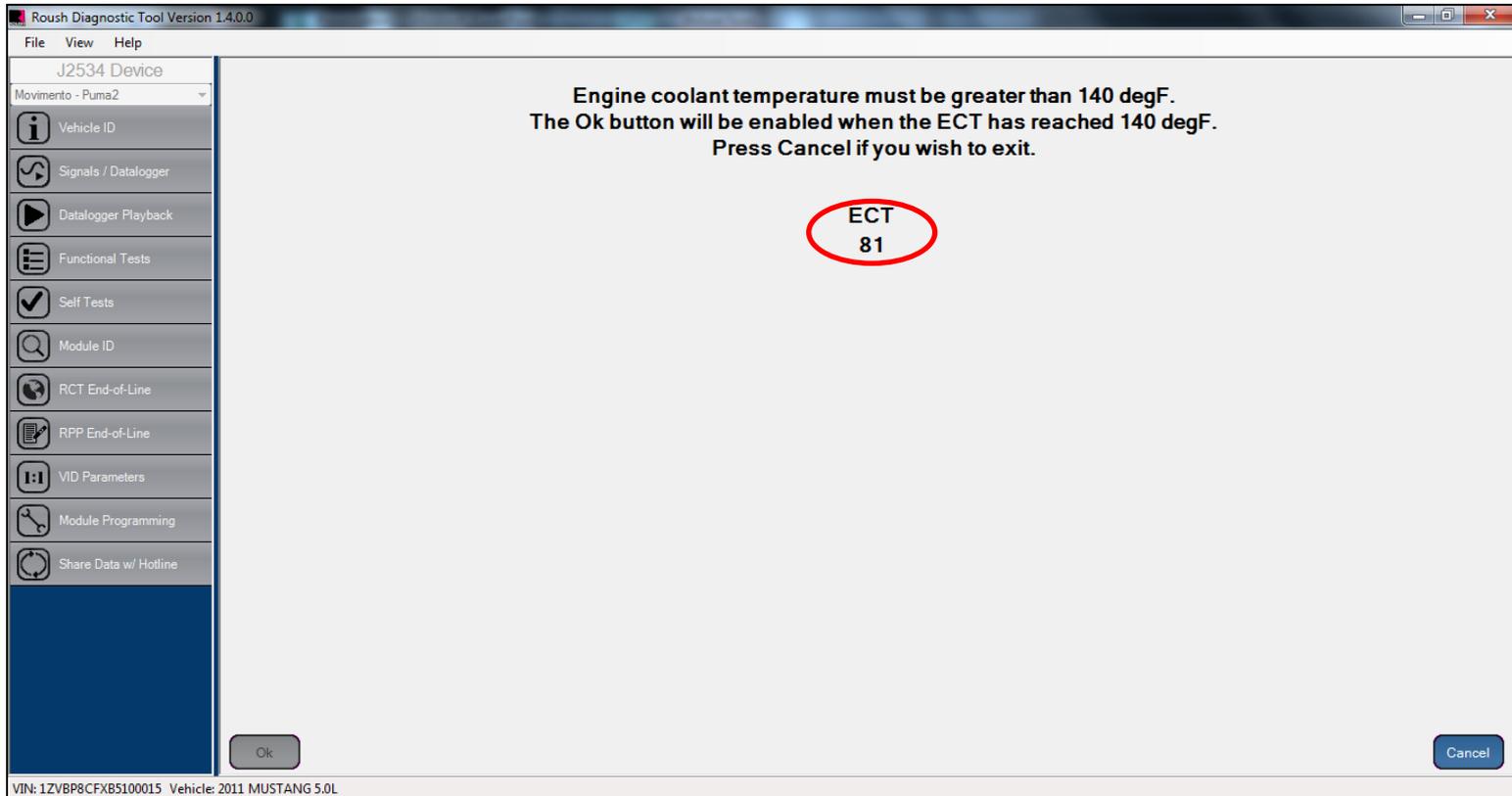
- The vehicle will now perform a Key On, Engine Running test.
- Depress the brake pedal
- If the vehicle is equipped with a power steering pump, turn the steering wheel ¼ turn.
- Cycle the Traction Control Switch switch on and off.



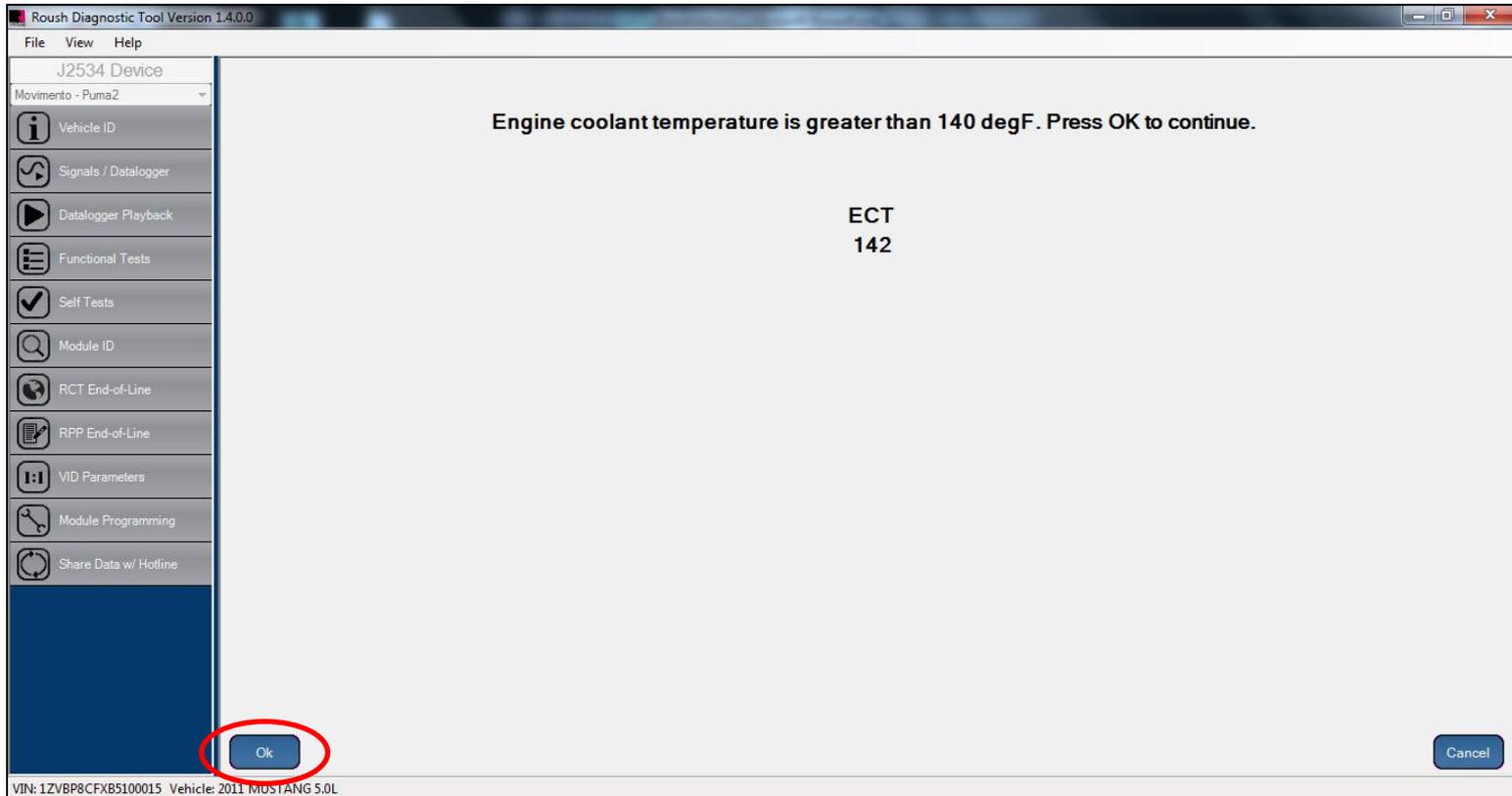
- If any Diagnostic Trouble Codes (DTC's) are present, record the DTC and select "Cancel".
- Diagnose and repair the issue, then restart the End of Line (EOL) procedure by selecting the "RPP End-of-Line" tab on the left to pass the EOL process. (Refer to page 8 to restart the EOL process)
- If no codes are present, continue to the next page.



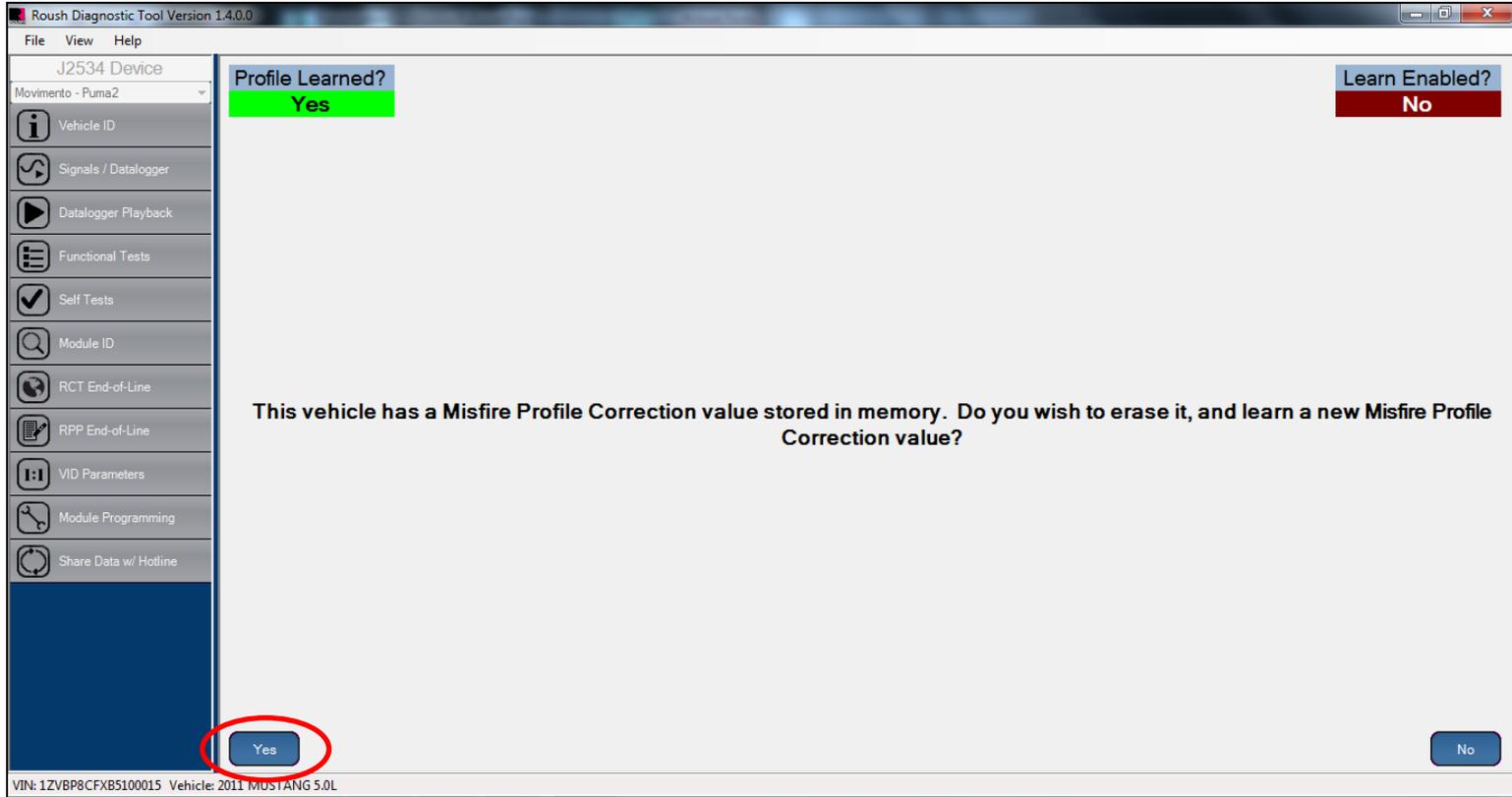
- RDT software includes the re-learn misfire profile procedure. If you have replaced any internal engine hardware, select “Learn”.
- If you have not replaced any of the engine hardware noted above, select “Skip” and proceed to slide 67.



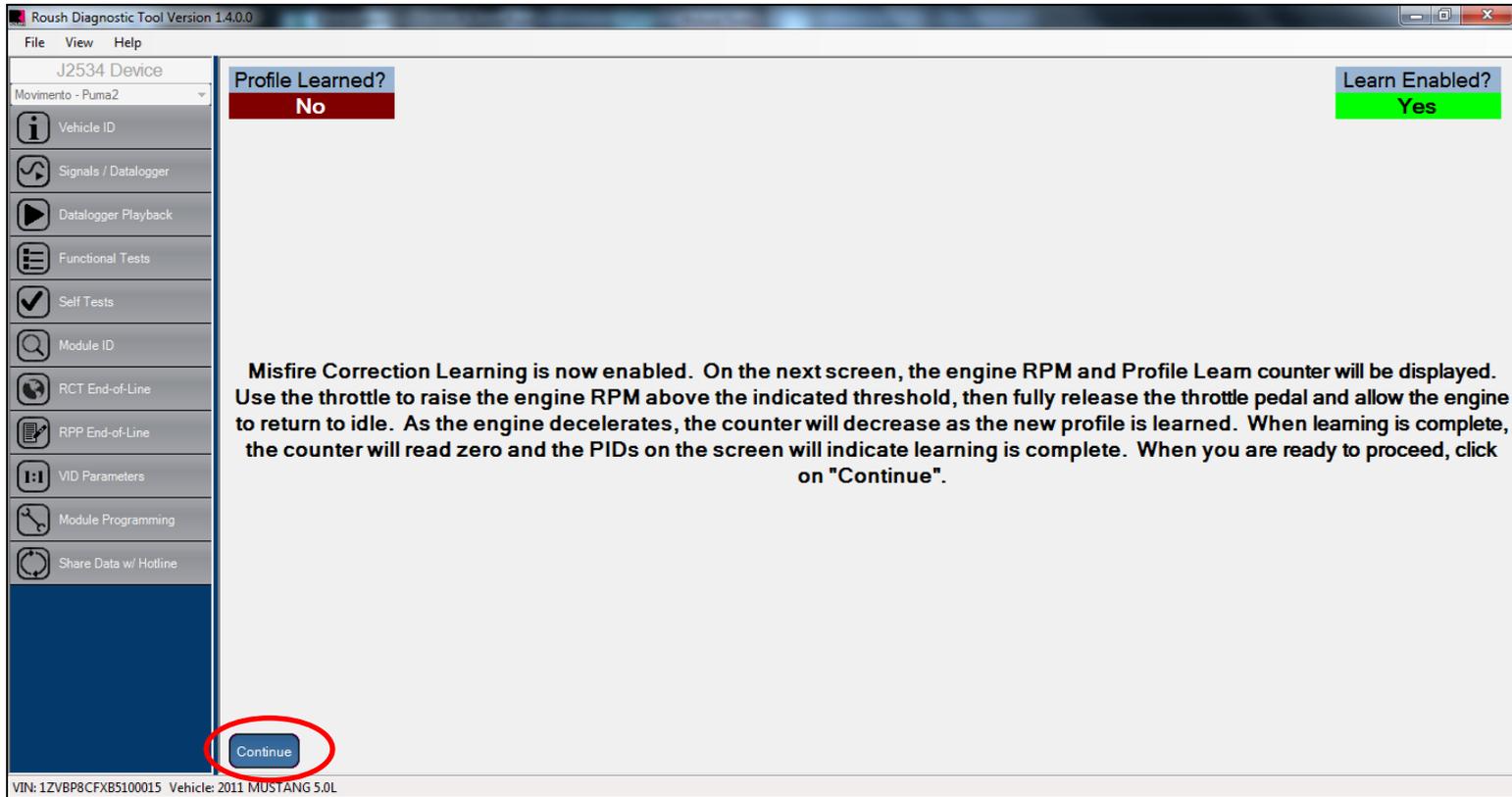
- To proceed, your Engine Coolant Temperature must be greater than 140 degrees Fahrenheit. If your ECT is below 140, start the vehicle and monitor the value on the screen until it reaches a value greater than 140.



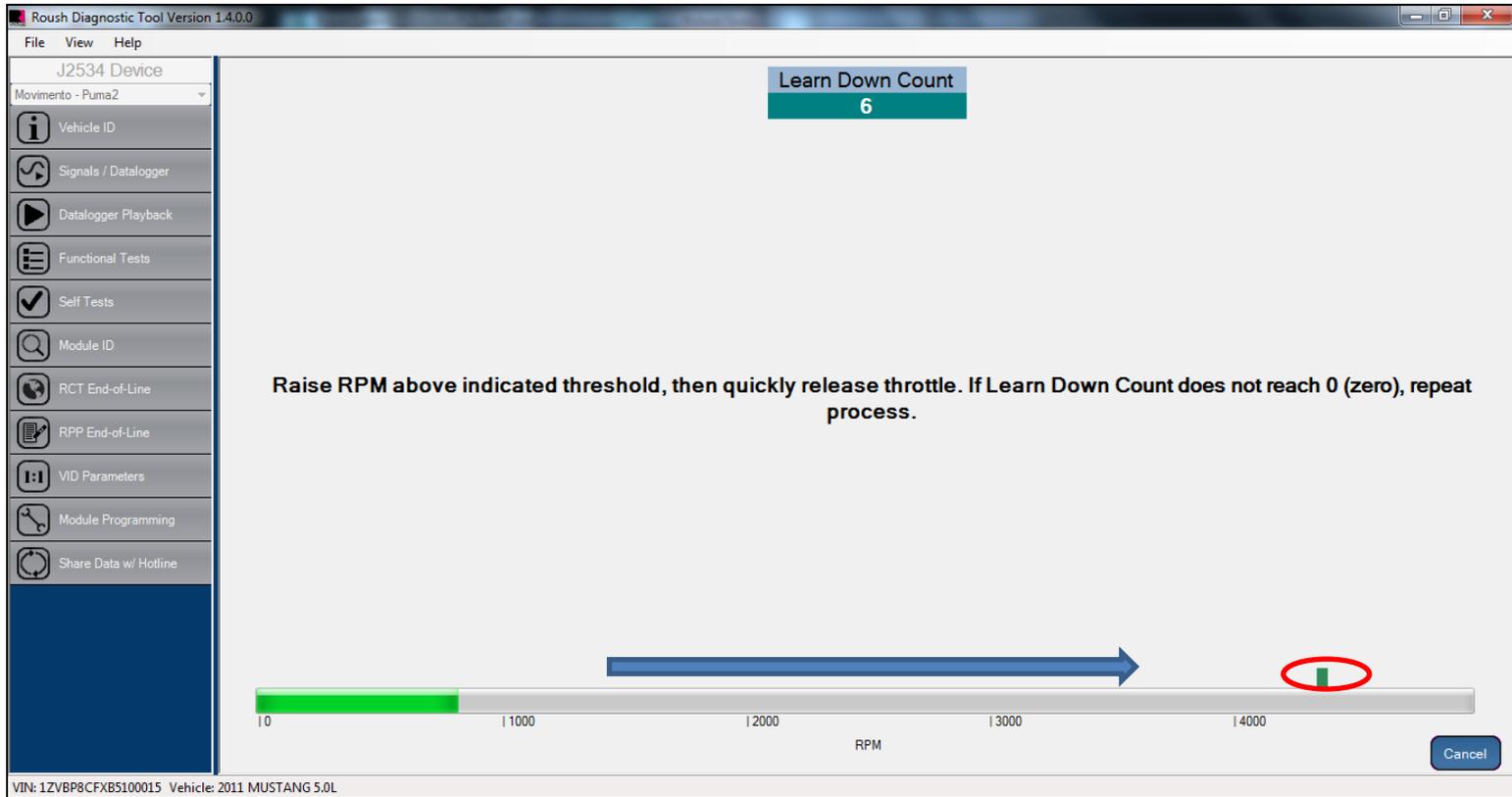
- Once the ECT is above 140, the Ok button will become available for selection, select “Ok”.



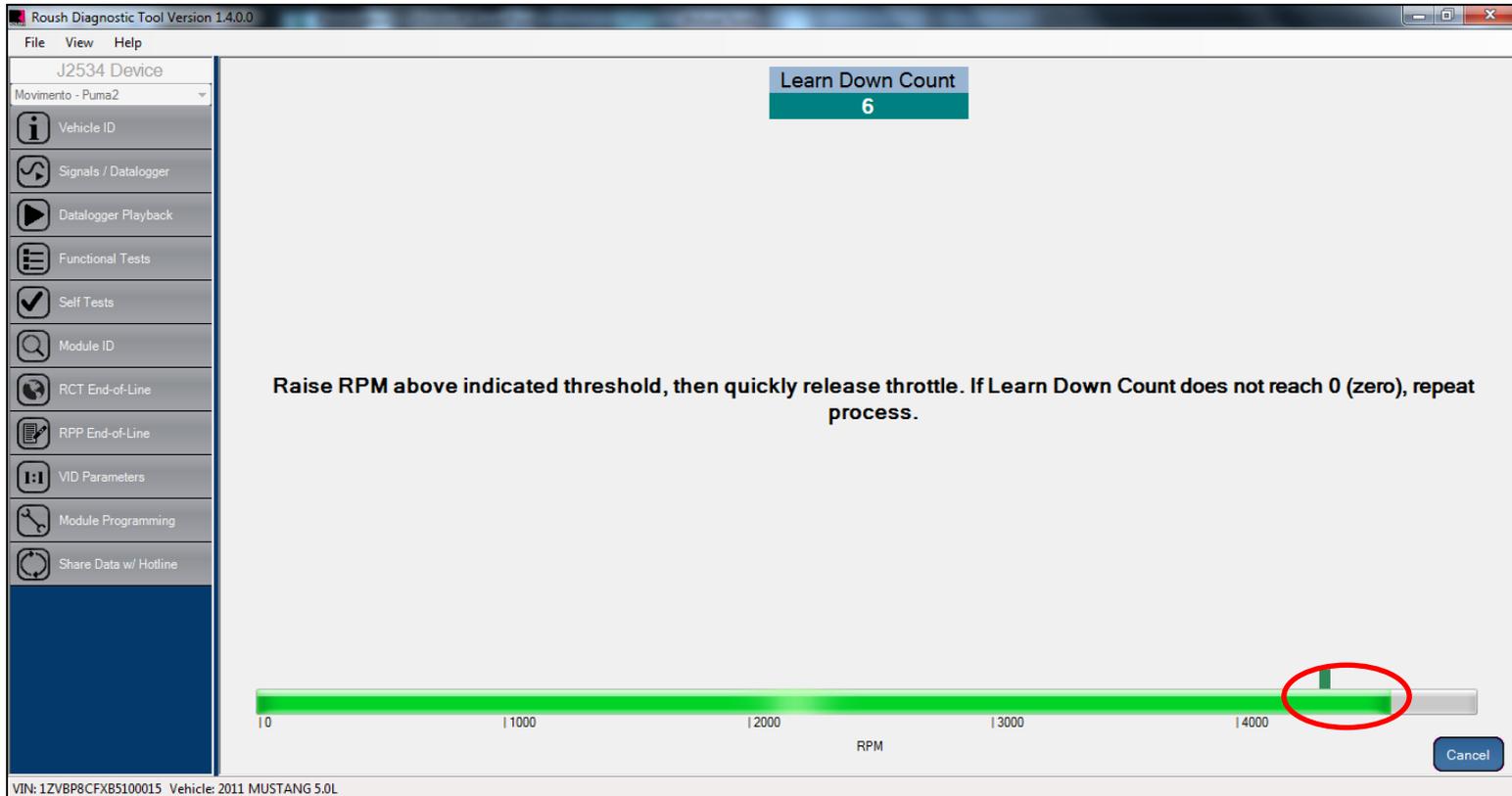
- Select “Yes”.



- Read the on screen description and select “Continue”.



- Raise the engine RPM so that the value **MOMENTARILY** exceeds the indicated point (about 4250), then quickly **RELEASE** the accelerator.
- Continue to the next page for a screen capture.



Roush Diagnostic Tool Version 1.4.0.0

File View Help

J2534 Device

Movimento - Puma2

- Vehicle ID
- Signals / Datalogger
- Datalogger Playback
- Functional Tests
- Self Tests
- Module ID
- RCT End-of-Line
- RPP End-of-Line
- VID Parameters
- Module Programming
- Share Data w/ Hotline

Learn Down Count
6

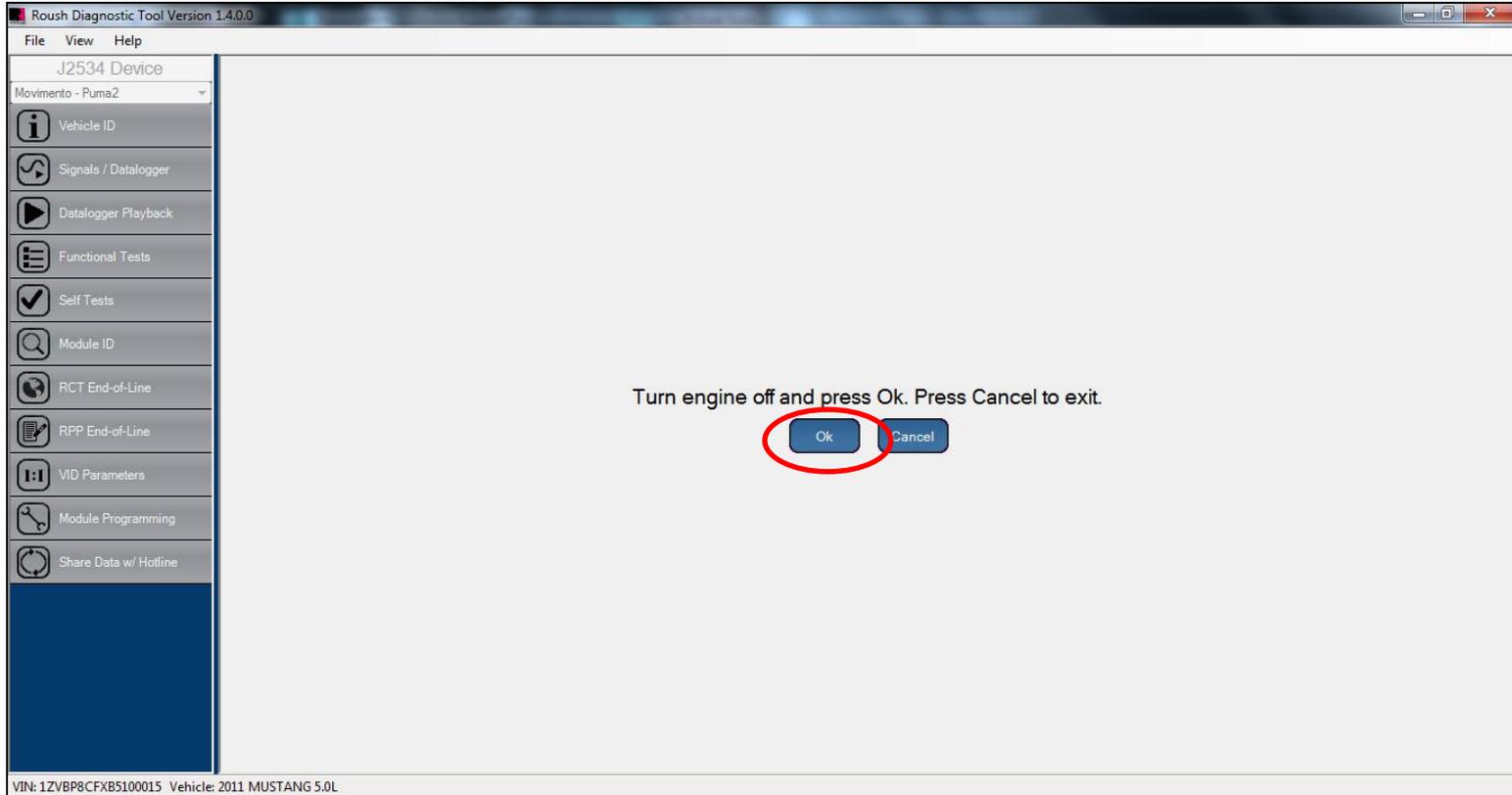
Raise RPM above indicated threshold, then quickly release throttle. If Learn Down Count does not reach 0 (zero), repeat process.

0 1000 2000 3000 4000 RPM

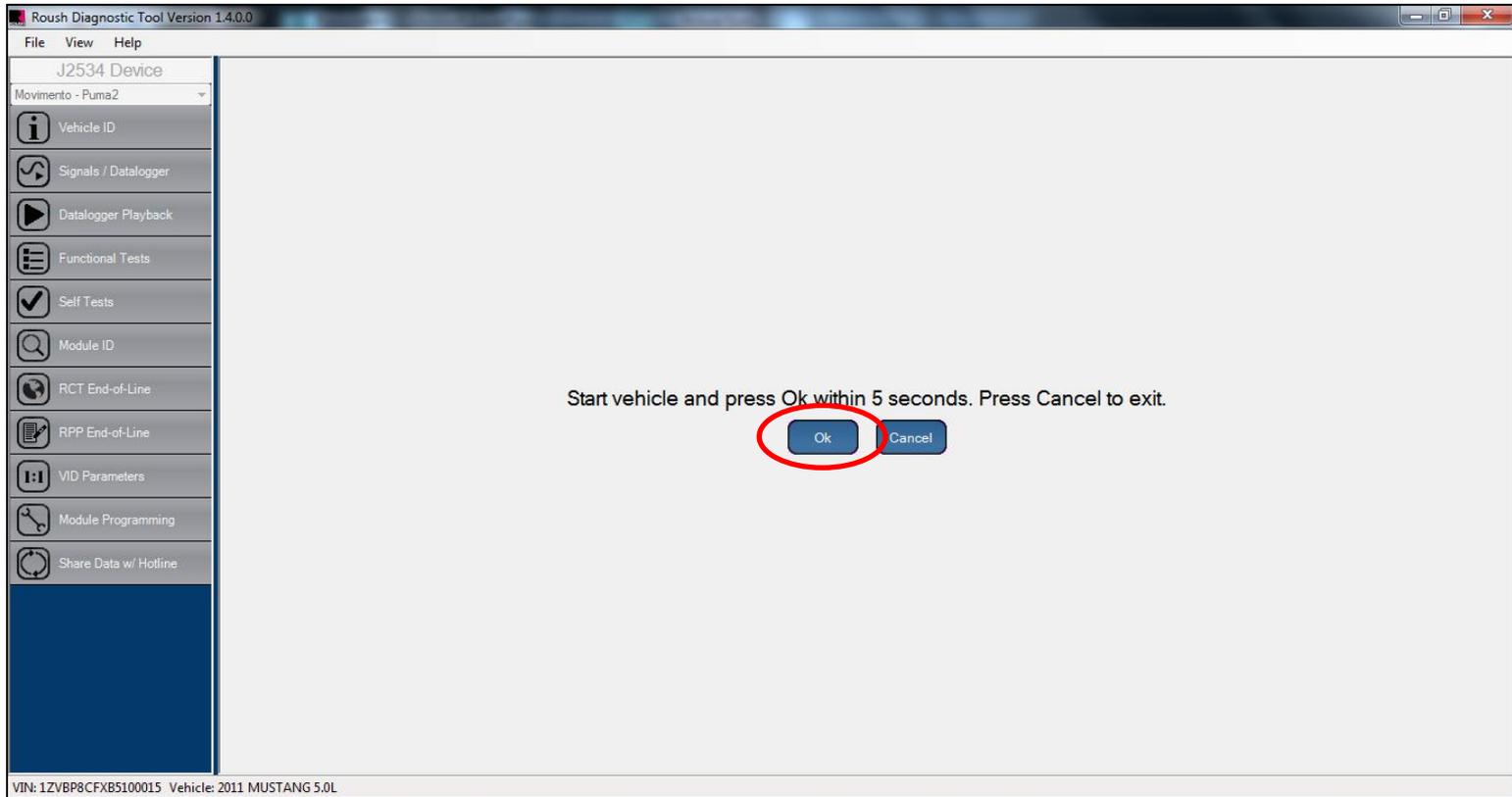
Cancel

VIN: 1ZVBP8CFX85100015 Vehicle: 2011 MUSTANG 5.0L

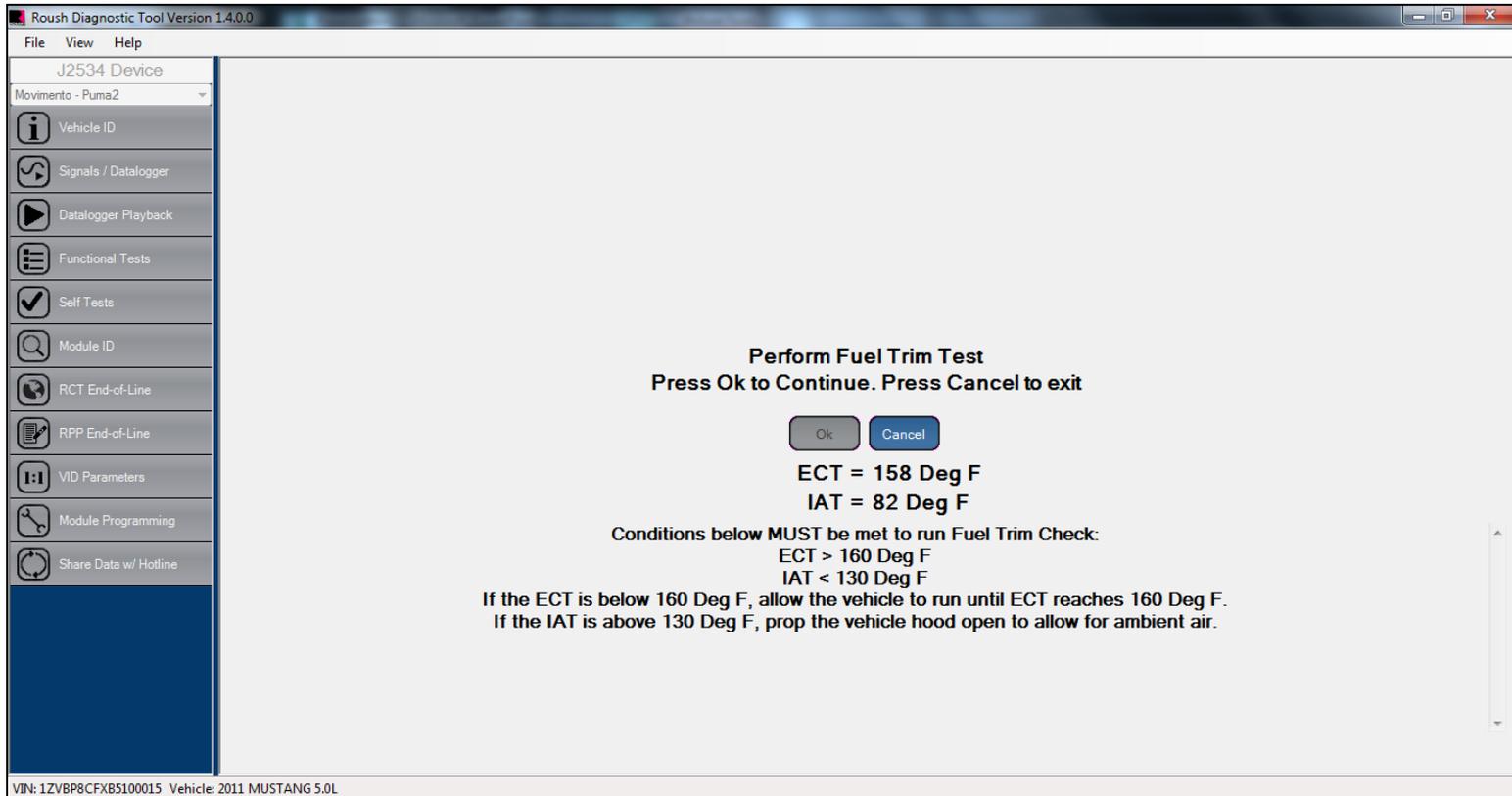
- Continue to the next page.



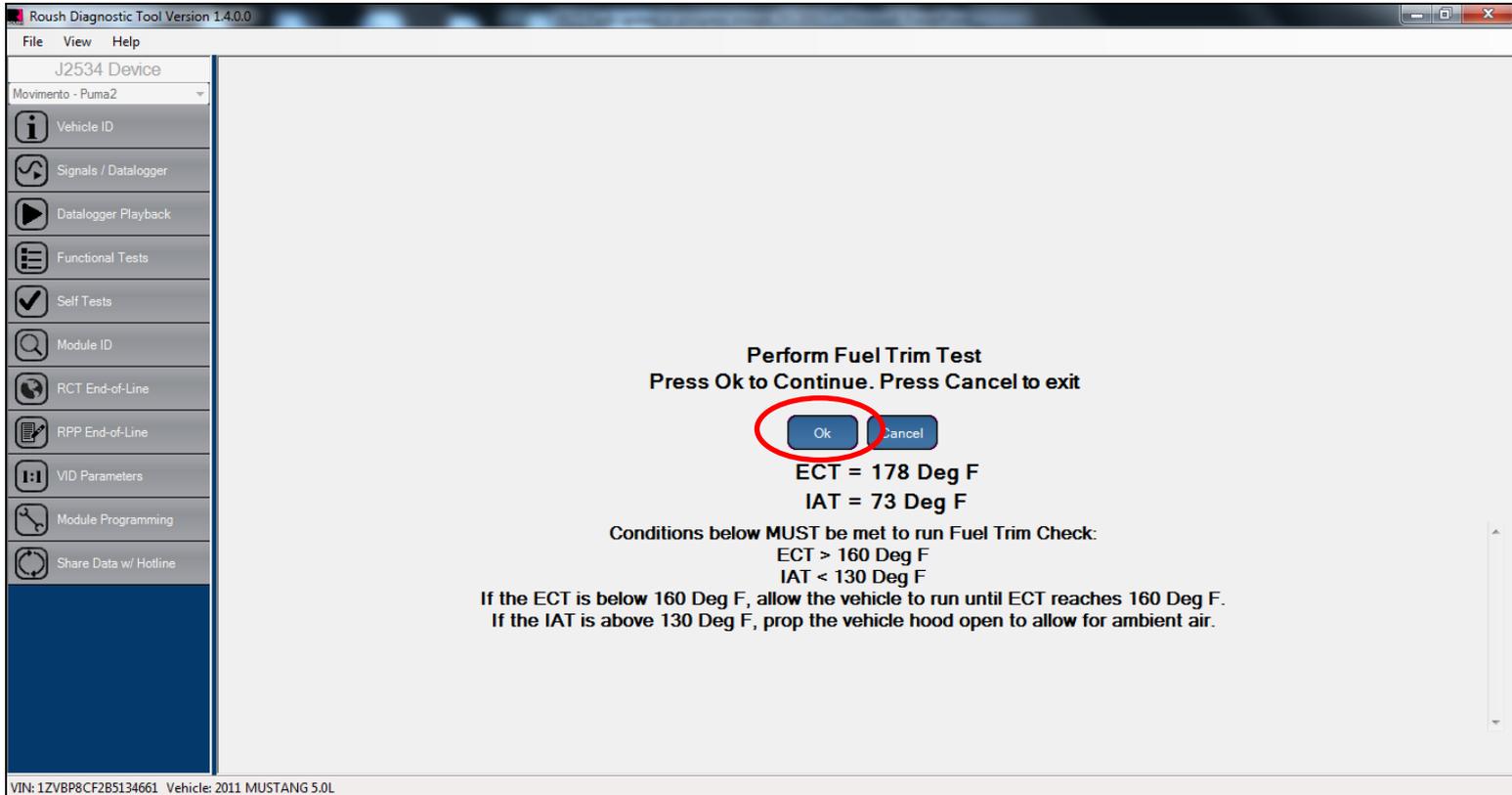
- Turn the ignition to the Engine Off position and select “Ok”.



- Start the vehicle and select “Ok”.



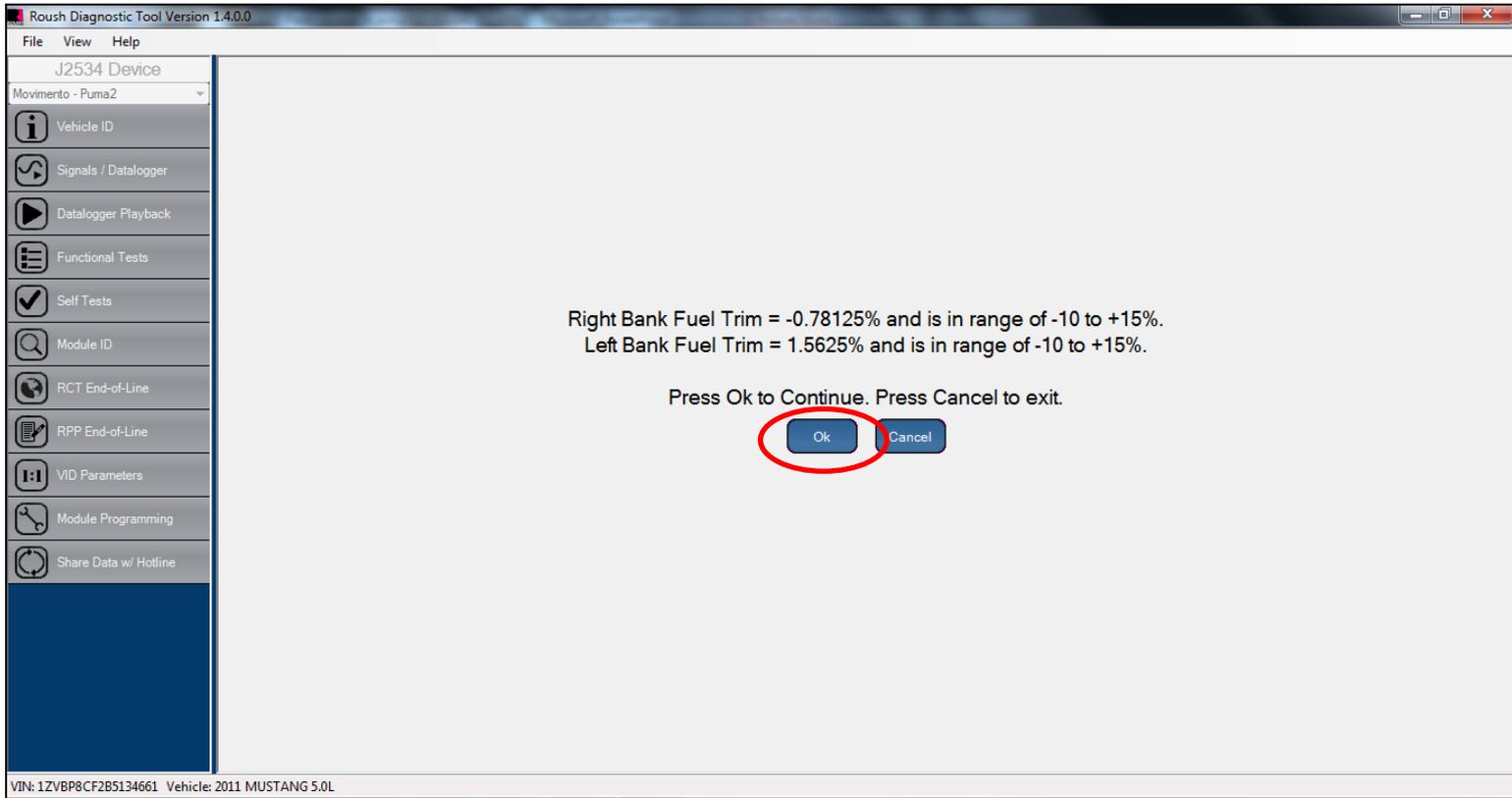
- Verify that the values displayed are all “in range”. If the values are in range, continue to the next page.
- If the IAT value is “not in range”, open the hood to decrease the temperature of the IAT.
- If the ECT is “not in range”, let the engine run until the operating temperature is in range.
- If neither ECT or IAT change to an acceptable value, turn the engine off and diagnose the concern.



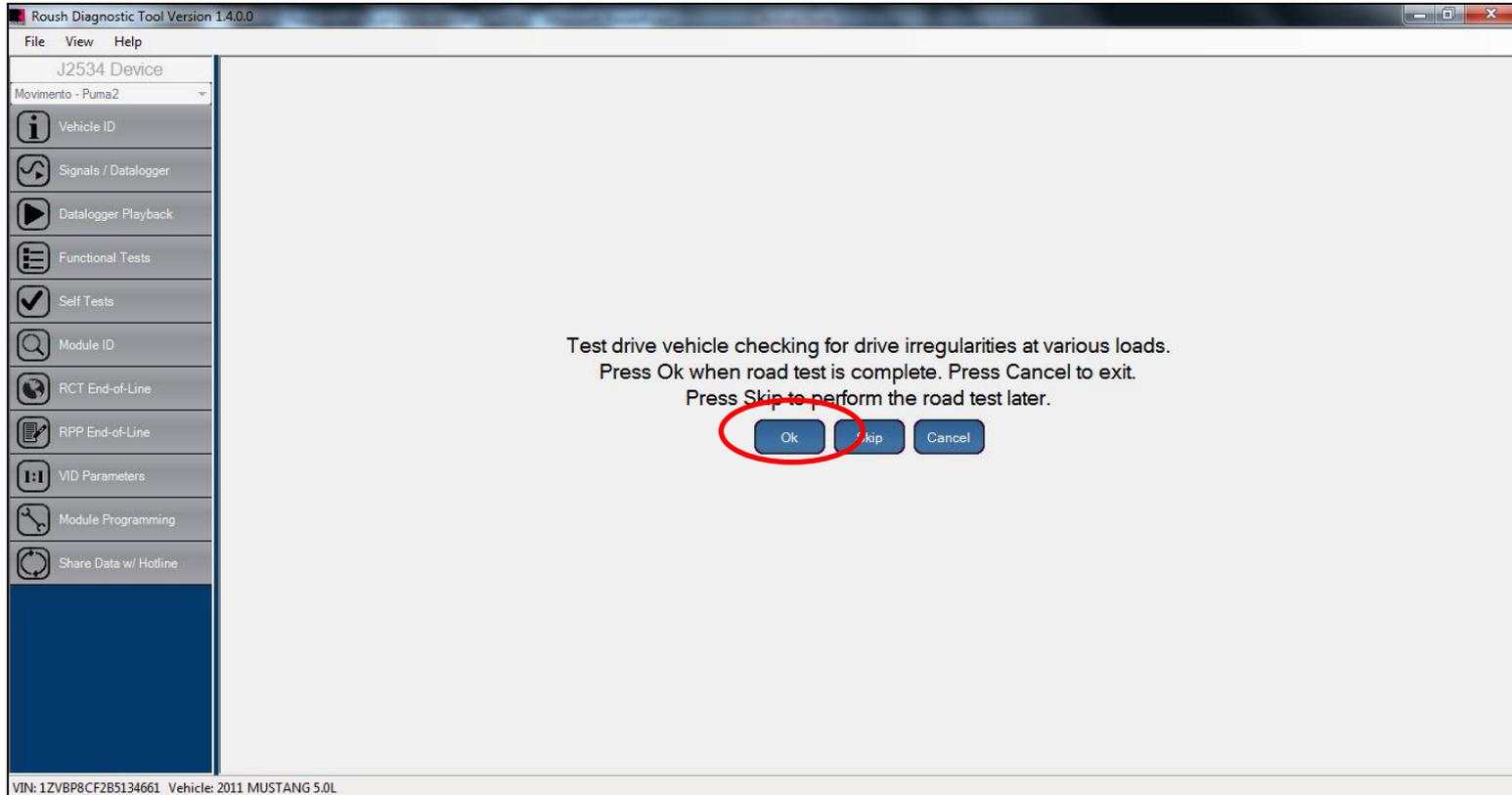
- Once the values are in range, select “Ok”.



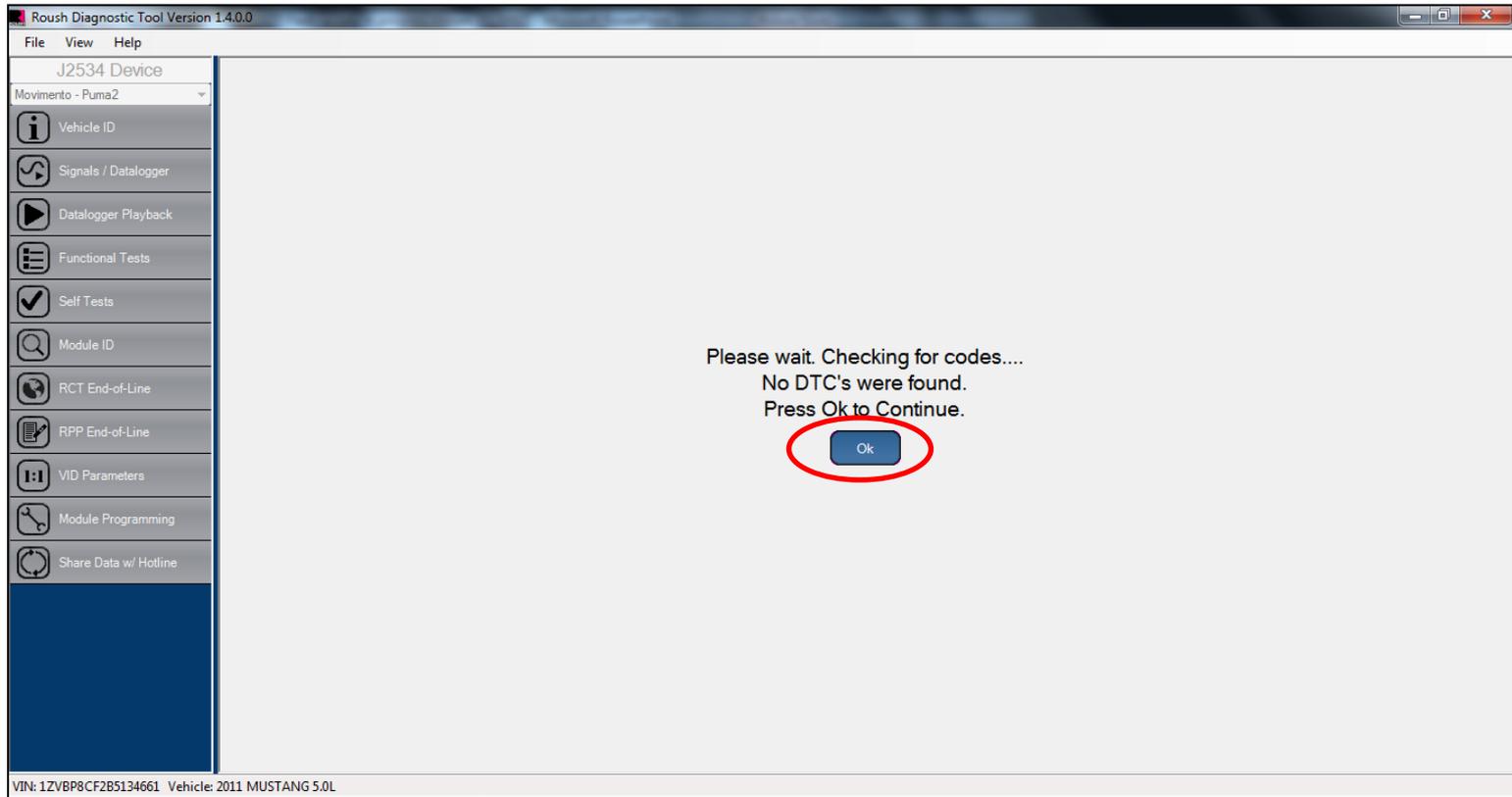
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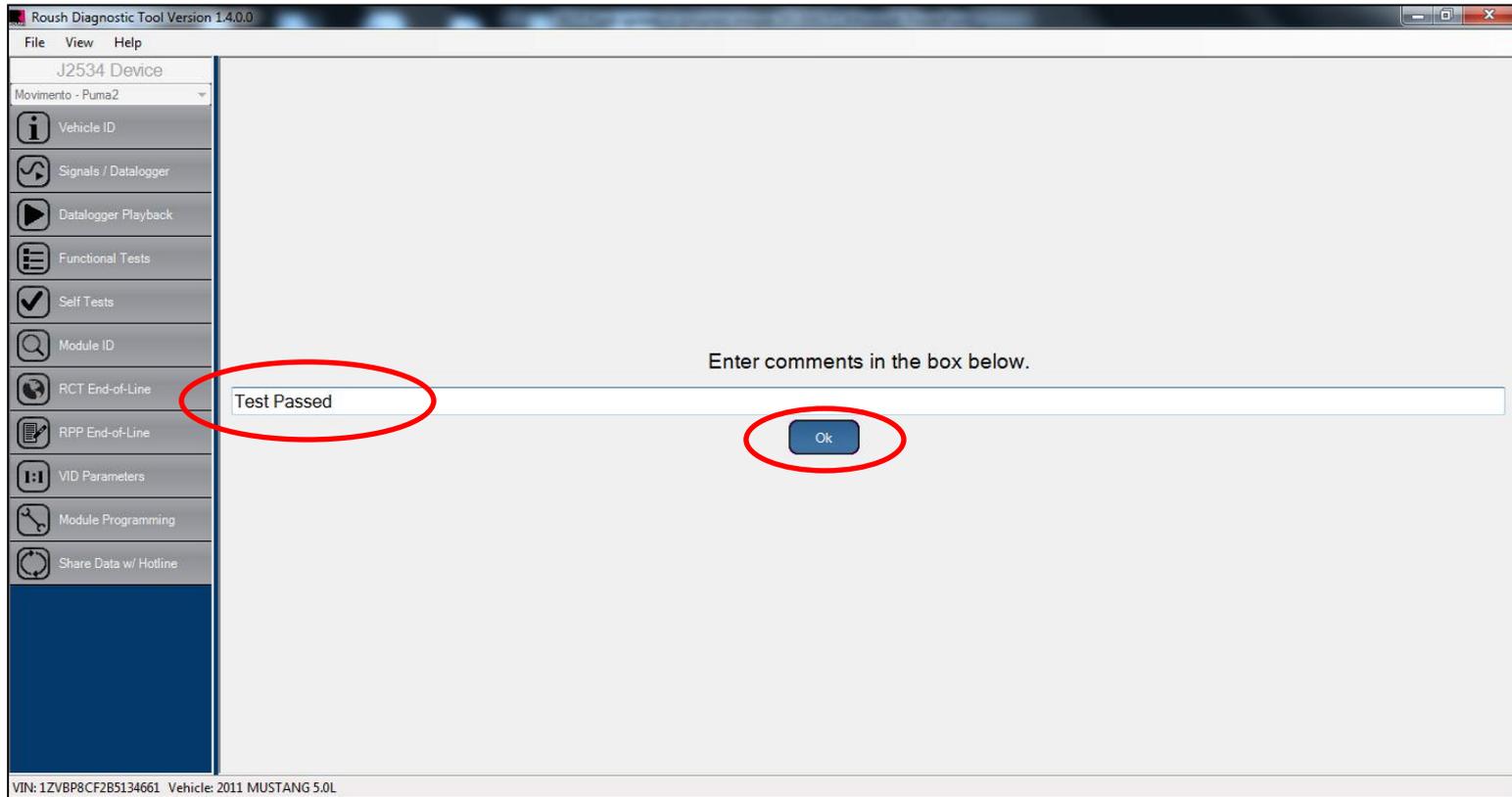
- If the values are in range, select “Ok”.
- If the values are not in range, diagnose the concern and repeat the EOL procedure (refer to page 28).



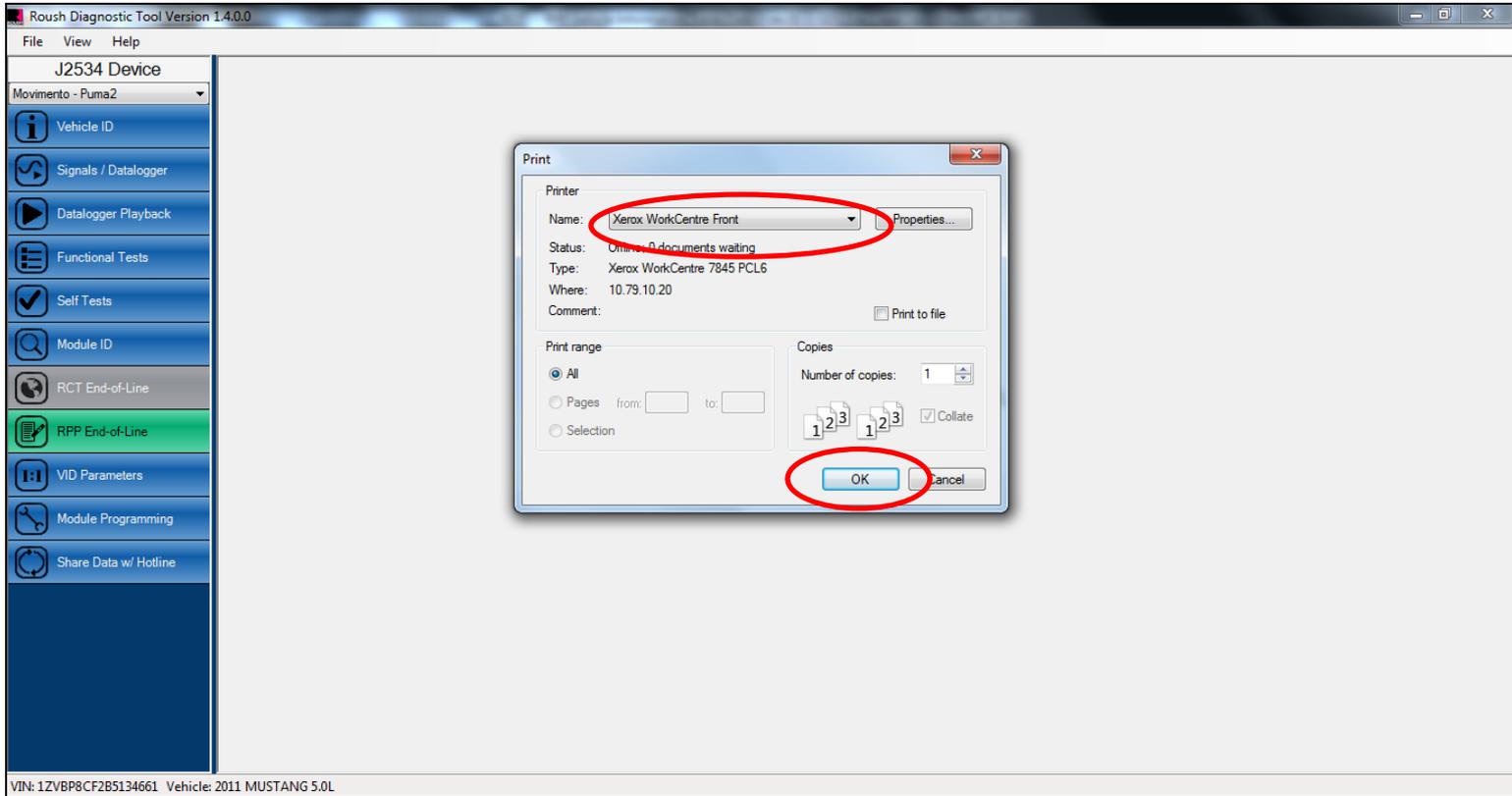
- ROUSH recommends disconnecting the laptop/VCM from the vehicle while test driving. The program must be left open to continue.
- Once a test drive is complete, connect the laptop/VCM back to the DLC and select “Ok”.



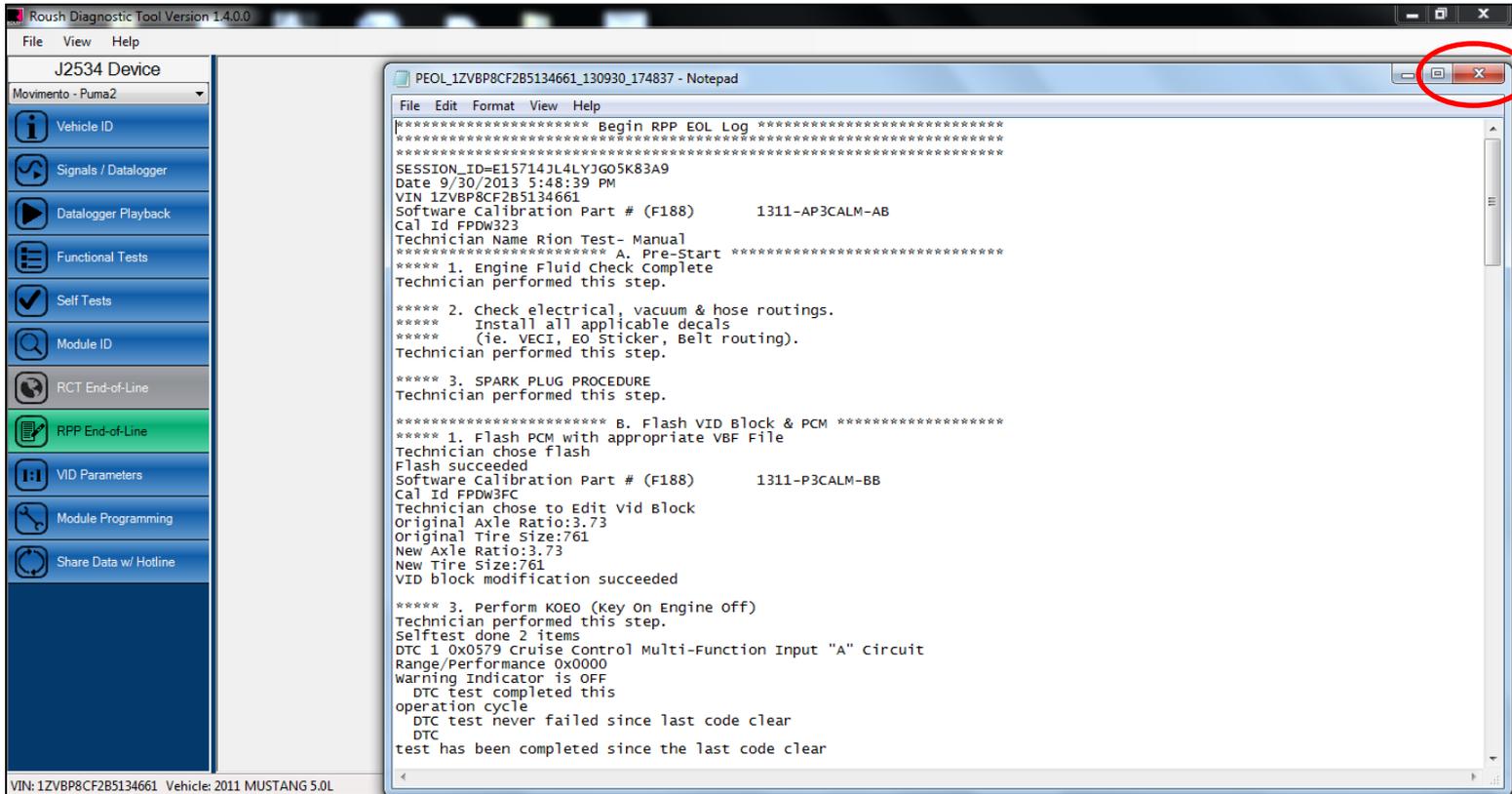
- Verify no codes are present, select “Ok”.
- If any codes are present, diagnose and repair the concern.



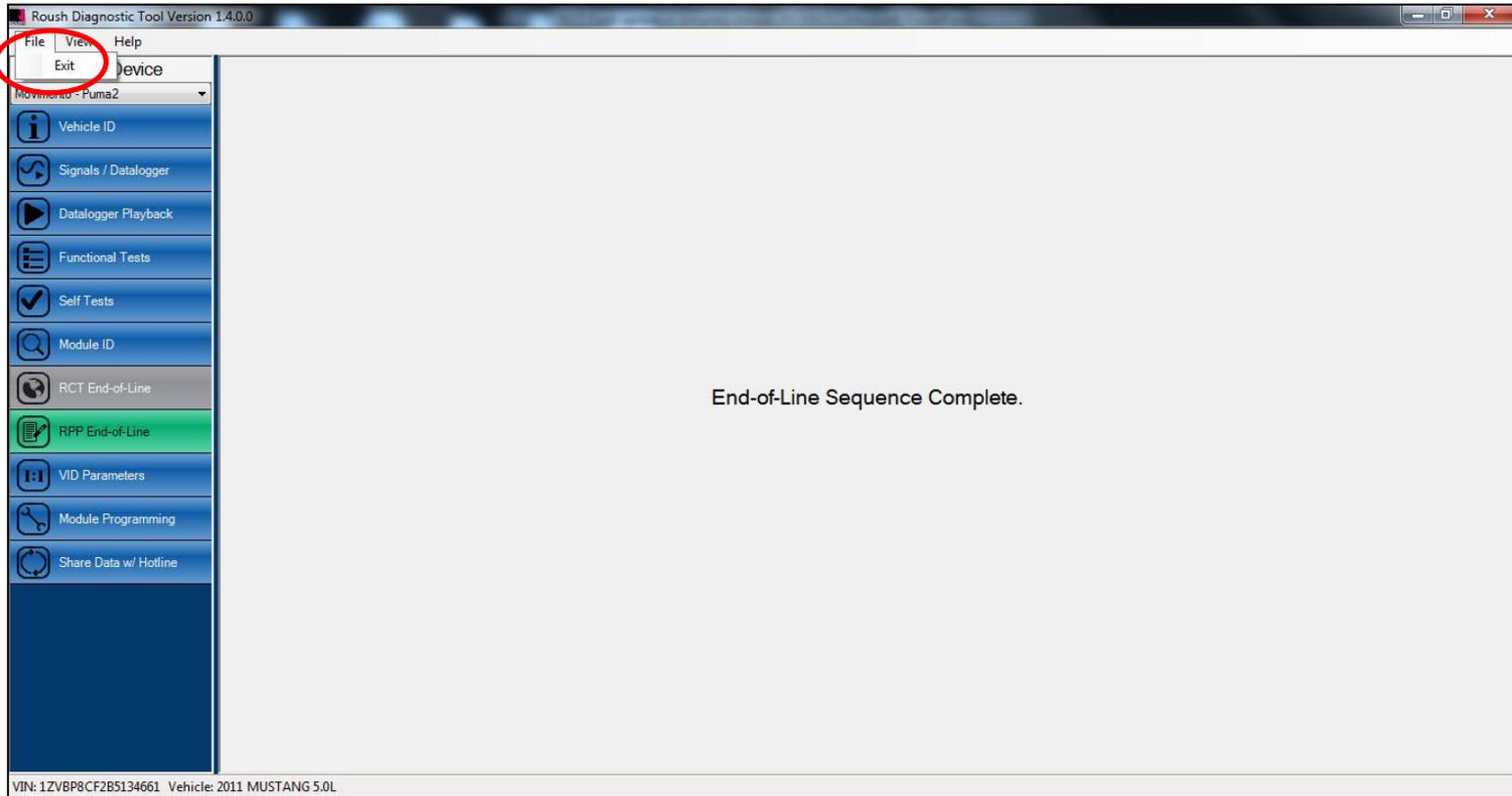
- Enter any comments relating to the procedure.
- Select “Ok”.



- You will be prompted with a print window to print the session file.
- Select an appropriate printer from the drop down and select “OK” to print a file for your records.



- The session log will be displayed. Select the “X” to close it.



- The End of Line quality verification procedure and module flashing process are now complete. Select the “File” tab from the menu bar and select “Exit” from the drop down menu to close the program.