

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</submit>
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First Name:	
Last Name:	
Title:	
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• Enter "rdt.roush.com" into your web browser's address bar and proceed to the website.



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Installation	Notes
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Softw Perce	are can only be used on the machine it is downloaded to

• 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.



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Address:		
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		Better Vehicles Faster
•	Software can only be used on the machine it is downloaded to Recommend installation of J2534 pass-through device (e.g. Puma, VCM I, VCM II) and drivers before installing software • Download Puma Drivers here Recommended Minimum PC Requirements • Processor - 500Mhz • Memory - 128 MB of RAM • Available Hard Disk Space - 200 MB • Graphics Card - 800x800 16-bit color • Internet Connection - High speed internet connection Software Requirements • Operating System - Windows 7 or XP only • Web Browser - Internet Explorer Version 7.0 or later • Adobe Acrobat Reader - Version 5 or later • Microsoft .NET Framework 4.0 or later	E

- 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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	The SOFTWARE is distributed in object code only. Object program (e.g. firmware and dri included are an integrated part of the SOFTWARE. You are not entitled to remove or mod whole or partly, any part of the SOFTWARE, unless expressly permitted by MOVIMENT particular you shall not be entitled to remove or modify any marks or code identifying SOI or parts thereof.	- 200 MB 16-bit color speed internet connection
	You shall ensure that you understand and follow the instructions when using the SOFTWA obtain correct results. The technology and the SOFWARE is exclusively intended for use a diagnostics instrument, other applications will void any warranty granted by MOVIMENT	ws 7 or XP only plorer Version 7.0 or later ersion 5 or later (4.0 or later
	Customer acknowledges that the SOFTWARE is technically complex and that it is not to possible to guarantee that SOFTWARE works free of defects in any combination and a pl	

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



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	You shall ensure that you understand and follow the instructions when using the SOFTWA obtain correct results. The technology and the SOFWARE is exclusively intended for use a diagnostics instrument, other applications will void any warranty granted by MOVIMENT		
	Customer acknowledges that the SOFTWARE is technically complex and that it is not tech possible to guarantee that SOFTWARE works free of defects in any combination and apple		
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	Disclaimer. EXCEPT AS EXPRESSLY PROVIDED OTHERWISE IN THIS AGREEME MOVIMENTO MAKES NO WARRANTIES WHATSOEVER WITH RESPECT TO TH SOFTWARE UNDER THIS LICENSE	e 4 machine it is downloaded to epass-through device (e.g. Puma, ninstalling software	
	AGREEMENT, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIE MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRIN OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS. ALL SUCH WARRANTI HEREBY EXPRESSLY DISCLAIMED.	e uirements c	
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	The construction, validity and performance of the AGREEMENT shall be governed in all the laws of the State of Michigan in the United States of America.	-bit color Vpeed internet connection	
	All disputes arising in any way out of, or affecting, the AGREEMENT shall be referred to of competent jurisdiction in the State of Michigan in the United States of America.	⁹ s 7 or XP only ⁴ orer Version 7.0 or later	
	 I Accept Terms and Conditions IDe Not Accept Terms and Conditions 	+.0 or later	
9	Submit v	mit	
		<u> </u>	

- Select "I Accept Terms and Conditions".
- Select "Submit".





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





• 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.



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	Roush Diagnostic Tool	
	The installer will install Roush Diagnostic Tool to the following folder.	
Thank you	To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".	
Software i be asked tu "RoushDia on your m An email contain a s machine. I additional If you don starting th your conta	Eolder o. you may C:\Priogram Files (x86)\Roush\Roush Diagnostic Tool\ Browse Disk Cost nail will Install Roush Diagnostic Tool for yourself, or for anyone who uses this computer: nail will • Everyone g or • Just me include	Powers By
	Back Close	MOVIMENTO Better Vehicles Faster

• Verify the installation directory.

• Select "Next".



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	Roush Diagnostic Tool	
	The installer is ready to install Roush Diagnostic Tool on your computer.	
Thank you	Click "Next" to start the installation.	
Software i), you may
"RoushDia		be saved
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• Select "Next" to install.



• The Roush Diagnostic Tool will begin to install.



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	B Roush Diagnostic Tool	
	Installation Complete	
	Roush Diagnostic Tool has been successfully installed.	
Thank you	Click "Close" to exit.	
Software i		p, you may
be asked to "BoushDia		the saved
on your ma		
An email		nail will
contain a s machine T		ne r an
additional		
If you don	Please use windows update to check for any critical updates to the .NET Framework.	ig or
starting the		include
you cona	Cancel K Back Close	Powered By
L. L		
	Back	

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





• 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.





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



Roush Diagnostic Tool Retail Flash Procedure

rdt.roush.com

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.



Roush Diagnostic Tool Version 1	140.0	- 0 - X
File View Help		
J2534 Device		
Movimento - Puma2 👻		
Vehicle ID		
Signals / Datalogger		
Datalogger Playback		
Functional Tests		
Self Tests		
Module ID	Enter your name in the box below.	
RCT End-of-Line	Tophnician Nama	
RPP End-of-Line		
UID Parameters		
Module Programming		
Share Data w/ Hotline		
VIN: 1ZVBP8CFXB5100015 Vehicle:	2011 MUSTANG 5.0L	

• 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 D	Diagnostic Tool Version 1	.4.0.0			too house the second	
File Vie	ew Help					
J2	534 Device					
Movimento -	- Puma2 👻					
i Veh	nicle ID	D				
S	nale / Datalogger	Review tr	ie chart belo	w and per	orm the spark plug procedure.	
	nalo i o dialoggoi	Vehicle	Model Year	Kit	Engine	Comment
Dat	talogger Playback		2005-2008J1	M90	4.6L 3V (2008)1 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
(=) Fun	nctional Tests	Mustang	2005-2008J1	TVS2300	4.6L 3V (2008J1 Engine Codes 8G-836-AA & 8G-837-AA)	Install new - HIO 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"
Self	f Tests		2011+	TVS2300	5.0L 4V	Install new- CYFS-12YP
0			2004-2008J1	M112	5.4L 3V (2008J1 Engine Codes 7G-600-BA & 7G-692-BA)	Install new - HTO
	dule ID	F150	2008J2		5.4L 3V (2008J1 Engine Codes 7G-600-BB & 7G-692-BB)	No Change Req'd - Use Stock Plug
RC RC	T End-of-Line		2011+	TVS2300	5.0L 4V	Install new- CYFS-12YP
			2011+	TVS2300	6.2L 2V	No Change Req'd - Use Stock Plug
P RPF	P End-of-Line				Ok	el
) Parameters					
Moc	dule Programming					
Sha	are Data w/ Hotline					
VIN: 1ZVBP8CFXB5100015 Vehicle: 2011 MUSTANG 5.0L						

- Review the spark plug table for your specific application. <u>IF</u> 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.



Roush Diagnostic Tool Version 1.4.0.0	
File View Help	
J2534 Device Movimento - Puma2 PCM Software Installation	on
Veddet Redeem a Rouch Voucher Image: Signal of the second seco	Operator Action Enter your Voucher information to enable PCM Flash Module Info Protocol Ford GGDS - - - - CAL ID Vehicle Sw - - Previous Module Software CAL ID FPDW3FC Vehicle Sw - - - End of Line Figure State

- 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".



Roush Diagnostic Tool Version :	14.00		
File View Help			
J2534 Device			
Movimento - Puma2 👻	PCM Software Installation		
Vehicle ID			
Signals / Datalogger	Module Programming		Operator Action
	Progress		Please Wait
	Elapsed Time 0:05		
Functional Tests	A		Module Info
Self Tests	Globals Initialized	Protocol	Ford GGDS
Module ID	Read DID	-	-
RCT End-of-Line	Locate your Voucher and press Redeem.	-	-
	J2534 Connection OK	Ne	ew Module Software
RPP End-of-Line	Enter Security	CAL ID	
(1:1) VID Parameters	Stop TP Global Routine Control	Vehicle Sw	
Module Programming	Routine Control	-	
Share Data w/ Hotline		Prev	ious Module Software
		CAL ID	FPDW323
		Vehicle Sw	1311-AP3CALM-AB
	Enter Voucher Flash		
	Continue End of Line Exit End of Line		
VIN: 1ZVBP8CF2B5134661 Vehicle:	2011 MUSTANG 5.0L		

- 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".





• Select "OK".



Roush Diagnostic Tool Version	140.0		
File View Help			
J2534 Device			
Movimento - Puma2 👻	PCM Software Installation		
Vehicle ID			
Signals / Datalogger	Module Programming		Operator Action
	Progress		Flash Complete.
Datalogger Playback	Elapsed Time 3:26	You may no	w continue with End of Line.
Functional Tests	Locate your Voucher and press Redeem.		Modulo Info
Colf Toolo	Start TP Global	Destand	
	Enter Security	Protocol	Ford GGDS
O Module ID	Stop TP Global	-	-
0	Routine Control	-	-
RCT End-of-Line	Routine Control		
PPP End of Line	Stor P Global	Ne	ew Module Software
	Stop TP Global	CAL ID	FPDW3FC
(I:I) VID Parameters	Stop TP Global	Vehicle Sw	1311-P3CALM-BB
<u> </u>	ESEI =	-	
Module Programming	J2534 Device Closed		
Share Data w/ Hotline	Clearing Codes	Prev	ious Module Software
	Read DID	CAL ID	FPDW323
	Stop TP Global	Vehicle Sw	1311-AP3CALM-AB
	J2534 Device Closed		
	Enter Voucher Flash		
	Continue End of Line Exit End of Line		
VIN: 1ZVBP8CF2B5134661 Vehicle:	2011 MUSTAN S 5.01		

• 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".



Roush Diagnostic Tool Version 1	.4.0.0	And an and the second sec	
File View Help			
J2534 Device			
Movimento - Puma2		PCM VID Block (Optional Step)	
Signals / Datalogger			
	3.55	New Value 3.55	
	Current Axle Ratio		
Functional Tests		\frown	
Self Tests	751	New Value 751	
(Q) Module ID	Revs per mile		
	[OK] Read Completed Successfully [OK] VID Successfully Read	Operator A	Action
	J2534 Device Closed	Read com	plete.
RPP End-of-Line	Read DID (INEO) Reading VID Block parameters	Enter your Lire and Axle set	ings then press Write.
VID Parameters	J2534 Device Connected		
Module Programming			
Share Data w/ Hotline			
9		*	
VIN: 17VRB8/CEXB5100015 Vehicle:	Read Write		Continue EOL Skip

• 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".



Roush Diagnostic Tool Version 1	.4.0.0	International Contraction		
File View Help				
J2534 Device Movimento - Puma2 Vehicle ID		PCM VID Block (C	Optional Step)	
Signals / Datalogger	3.55 Current Avde Ratio	New Value 3.55		
Self Tests	751 Revs per mile	New Value 751		
RCT End-of-Line RPP End-of-Line VID Parameters Wrocketer requestmenting Share Data w/ Hotline	J2534 Device Closed DID Write Succeeded Write 131 byte DID Write DID Enter Security Read DID J2534 Device Connected [OK] Read Completed Successfully [OK] VID Successfully Read J2534 Device Closed Read DID [INFO] Reading VID Block parameters J2534 Device Connected	VID Block Write Successful. Axle Ratio = 3.55 Revs Per Mile = 751	Operator Acti Read complet Enter your Tire and Axle setting	on e. s then press Write.
VIN: 1ZVBP8CFXB5100015 Vehicle:	Read Write		(Continue EOL 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.



Roush Diagnostic Tool Version 1	1.4.0.0	the second second		
File View Help				
J2534 Device				
Movimento - Puma2		PCM	VID Block (Optional Step)	
U Vehicle ID				
Signals / Datalogger				
	3.55	New Value 3.55		
Datalogger Playback	Current Axle Ratio			
Functional Tests				
Self Tests	751	New Value 751		
Module ID	Revs per mile			
	J2534 Device Closed	*	Operator Act	ion
RCT End-of-Line	DID Write Succeeded		Read complet	te
RPP End-of-Line	Write 131 byte DID		Enter your Tire and Axle setting	gs then press Write.
	Write DID			
VID Parameters	Read DID			
Module Programming	J2534 Device Connected			
	[OK] Read Completed Successfully			
Share Data w/ Hotline	J2534 Device Closed			
	Read DID			
	[INFO] Reading VID Block parameters			
	J2534 Device Connected			
	Read Write			Continue EOL Skip
VIN: 1ZVBP8CFXB5100015 Vehicle:	, 2011 MUSTANG 5.0L			

• Select "Continue EOL".





• Verify the ignition is in the Key On, Engine Off position. Select "Ok".





• 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.





- 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".



Roush Diagnostic Tool Version 1	140.0
File View Help	
J2534 Device Movimento - Puma2 v	Profile Learned?
Signals / Datalogger	
Functional Tests	
Self Tests	
Module ID	Niefer Consetion Learning is new applied. On the paytonness the appine DDN and Drafte Learn counterwill be disclosed
RCT End-of-Line	Use the throttle to raise the engine RPM above the indicated threshold, then fully release the throttle pedal and allow the engine
RPP End-of-Line	to return to idle. As the engine decelerates, the counter will decrease as the new profile is learned. When learning is complete, the counter will read zero and the PIDs on the screen will indicate learning is complete. When you are ready to proceed click
VID Parameters	on "Continue".
Module Programming	
Share Data w/ Hotline	
VIN: 1ZVBP8CFXB5100015 Vehicle:	2011 MUSTANG 5.0L

• 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.





• 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".





- 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.



Roush Diagnostic Tool Version 1.4.0.0		ı x
File View Help		
J2534 Device	PEOL_1ZVBP8CF2B5134661_130930_174837 - Notepad	x
Movimento - Puma2	File Edit Format View Help	
Vehicle ID	######################################	Â
Signals / Datalogger	SESSID. ID=E1571414LY1065K83A9 Date 9/30/2013 5:48:39 PM	
Datalogger Playback	VIN IZVBP8CF265134061 Software Calibration Part # (F188) 1311-AP3CALM-AB Cal Id FPDW323	E
Functional Tests	Iecnnician Name kion Iest- Manual ************************************	
Self Tests	***** 2. Check electrical, vacuum & hose routings. ***** Install all applicable decals ***** (ie. VECI, EO Sticker, Belt routing).	
RCT End-of-Line	Technician performed this step.	
RPP End-of-Line	**************************************	
VID Parameters	Flash succeeded Software Calibration Part # (F188) 1311-P3CALM-BB Calid PPM03FC	
Module Programming	Technician chose to Edit Vid Block Original Axle Ratio:3.73 Original Tire Size:761	
Share Data w/ Hotline	New Tire Size:761 VID block modification succeeded	
	***** 3. Perform KOEO (Key On Engine Off) Technician performed this step. Selftest done 2 items DTC 1 0x0579 Cruise Control Multi-Function Input "A" Circuit	
	Range/Performance 0x0000 Warning Indicator is OFF DTC test completed this	
	DTC test never failed since last code clear DTC test never failed since the last code clear	
VIN: 1ZVBP8CF2B5134661 Vehicle: 2011 MUSTANG 5.0L		▼ h. 4

• 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.