ServiceRanger 4 Pro+ User Guide





BACKED BY **Roadranger** SUPPORT

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3

Initial Installation

Latest software versions will be also available at the following web site:

https://www.jaltest.com/ oemsolutions/eaton-advantageautomated-clutch-calibration-tool/

The package will be downloaded as a zip file. It will be necessary to extract the files and launch the executable.

Note: Administrator rights are needed.

Name	Date modified	Туре	Size	
20_3_1_2_EatonClutchCalibration.zip	10/21/2020 11:10 AM	Compressed (zipp	1,812,184 KB	
Name	Date modified	Туре	Size	
20_3_1_2_EatonClutchCalibration_F1F	10/6/2020 7:18 PM	File	111,063 KB	
20_3_1_2_EatonClutchCalibration_F2F	10/6/2020 7:18 PM	File	111,448 KB	
20_3_1_2_EatonClutchCalibration_Install.exe	10/19/2020 9:53 AM	Application	643,950 KB	
20_3_1_2_EatonClutchCalibration_Ref	10/14/2020 7:53 PM	File	943,345 KB	
20_3_1_2_EatonClutchCalibration_S1F	10/14/2020 5:22 PM	File	1,145 KB	
20_3_1_2_EatonClutchCalibration_S2F	10/14/2020 5:22 PM	File	1,401 KB	

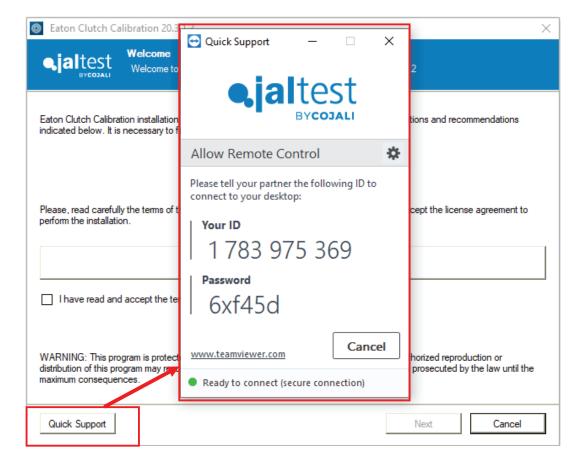
Open the executable (.exe) file.

Eaton Clutch C	alibration 20.3.1.2)
	Welcome Welcome to the installation program of Eaton Clutch Calibration 20.3.1.2	
	ation installation is going to start. Please, take into account the initial conditions and recommendations s necessary to follow all the indications properly to complete the process.	
	lly the terms of the agreement of license of use. It is necessary that you accept the license agreement to	
perform the installat	on.	
perform the installat	See terms of the agreement of license of use	
U have read an	See terms of the agreement of license of use d accept the terms of the agreement of license for use. ogram is protected by Copyright Law and International Treaties. The unauthorized reproduction or ogram may result in severe civil and criminal measures. Non-compliance is prosecuted by the law until th	ne

Select the checkbox indicated below and click "Next".

Eaton Clutch Calibration 20.3.1.2	\times			
Qaltest Bycogali Bycogali				
Eaton Clutch Calibration installation is going to start. Please, take into account the initial conditions and recommendations indicated below. It is necessary to follow all the indications properly to complete the process.				
Please, read carefully the terms of the agreement of license of use. It is necessary that you accept the license agreement to perform the installation.	0			
See terms of the agreement of license of use				
I have read and accept the terms of the agreement of license for use.				
WARNING: This program is protected by Copyright Law and International Treaties. The unauthorized reproduction or distribution of this program may result in severe civil and criminal measures. Non-compliance is prosecuted by the law until the maximum consequences.				
Quick Support Next Cancel				

In case of need for assistance, click on "Quick Support" to request a Customer Support remote connection.



Select the languages you want to include. By default, US English, Spanish and French will be installed.

Click on "Next" to continue.

Eaton Clutch Calil	bration 20.3.1.2	Х
	Select languages Select the languages you want to install and click on "Next" to continue.	
	ing list, the languages to be installed. You can choose as many languages as you want. The reference d by default and its installation is mandatory.	
♥ US English ♥ Spanish ♥ French		
	Back Next Cancel	

The setup indicates the disk space required for the installation. You will be notified in case there is not enough space.

By default, the software will be installed in the next folder. Just confirm by clicking "Next".

Keep this installation folder. APPCenter from Eaton Service Ranger will use that path by default.

Installation will not create shortcut icons on the desktop. The software will not appear in the start menu either.

Eaton Clutch Cali	ibration 20.3.1.2	×
	Installation folder Select an installation folder and click on 'Next' to continue.	
The software will be ir search an existing fold	nstalled in the folder listed below. To install in a different folder, type in a new path or click or Jer.	n "Browse" to
Install in:		
C:\Program Files (x86	5)\Jaltest Clutch Calibration	Browse
Space required for the	e installation: 2.02 GB	
Available space on se	elected drive: 29.65 GB	
-		
	Back	Cancel

For the next step, it is recommended to have an internet connection to complete the license activation and make sure the PC requirements are met.

In case a proxy is installed in the company organization, it can be configured at this point. That only happens in companies with very restrictive policies regarding internet (e.g., Army, Navy...). In those cases, the computer does not really have direct internet connection, it connects to a third computer to access the internet. That configuration must be managed by the IT Department of the company.

Do not confuse this with firewall restrictions.

The IP address and port used by the software, for license requests and software downloads, are:

***.jaltest.com: 443

176.28.117.83:21

By default, most of the firewall configuration will admit these accesses without additional changes.

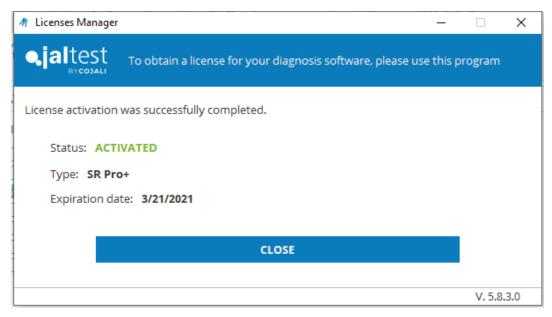
Click on "Next" to continue.

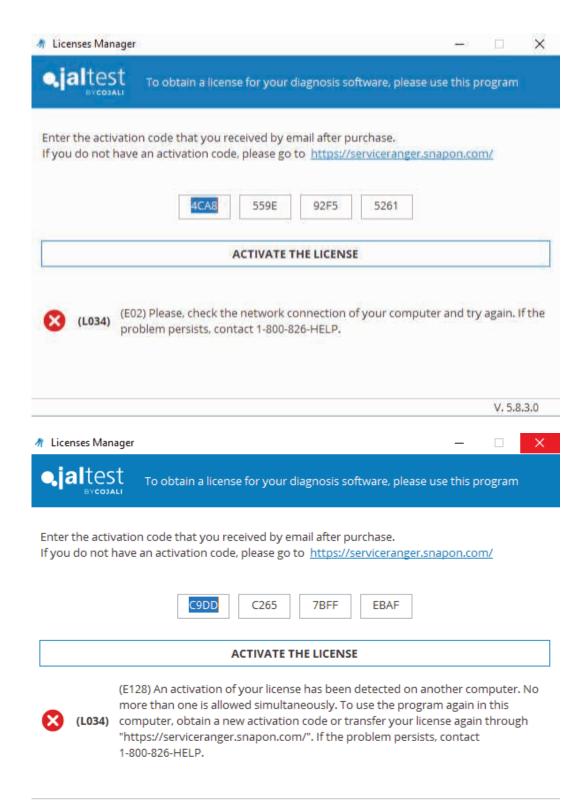
🙆 Eaton C	lutch Calibration 20.3.1.2	\times
€jal t	Initial conditions and recommendations Please, note the following points.	
۲	It is advisable to enable the Internet connection.	
۲	For networks with Proxy Server, press 'Set Proxy' button.	
•	Please, do not cancel the process until it has finished. Otherwise, it shall start again.	
.	Click here to see the computer requirements	
If the initial o	conditions are valid, click "Next" to continue.	
Set	t Proxy Back Next Cancel	

An Activation Code is required. Additionally, the setup will redirect you to Eaton's website to purchase a license in case the user has not previously purchased it.

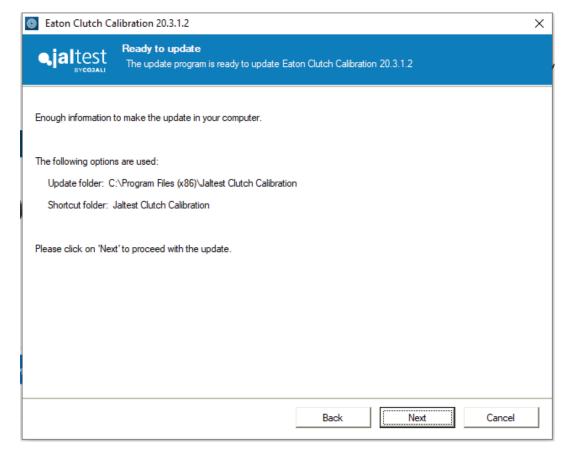
🛷 Licenses Manager		_		\times
	To obtain a license for your diagnosis software, please us	e this p	rogram	
	on code that you received by email after purchase. an activation code, please go to <u>https://serviceranger.sna</u>	apon.co	<u>m/</u>	
	ACTIVATE THE LICENSE			
			V. 5.8.	3.0

The Activation Code is confirmed and license is activated. In case of the process is not completed, an error message will appear to troubleshoot the issue. See second and third image below.

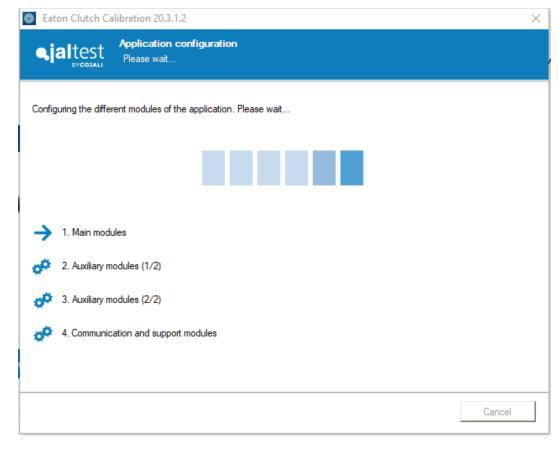




Click "Next" to start the deployment of the files.



Some automatic operations will be executed during the installation of the files. This should take less than five (5) minutes to complete.

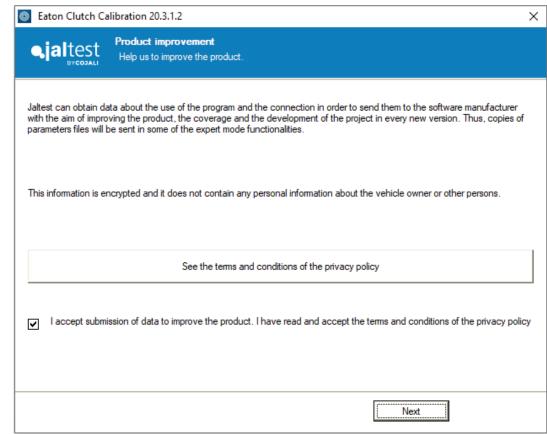


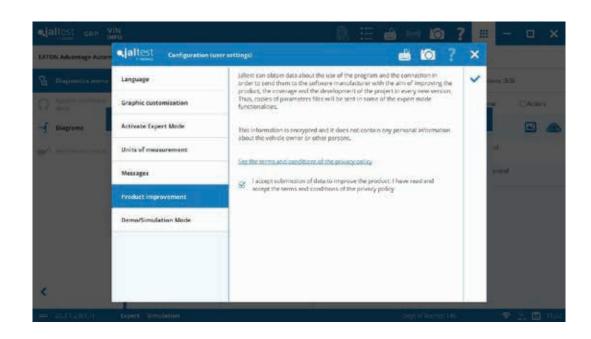
In case a previous installation is detected, a popup message will appear offering to back-up the information.

_								
	[Data					×	
~	1. Main modu	0	There are data sto portfolio, configur want to retrieve th	ation data, dia	gnostic reports,			
~	2. Auxiliary m				ОК	Cancel		
~	3. Auxiliary mo	dules (2/2)						

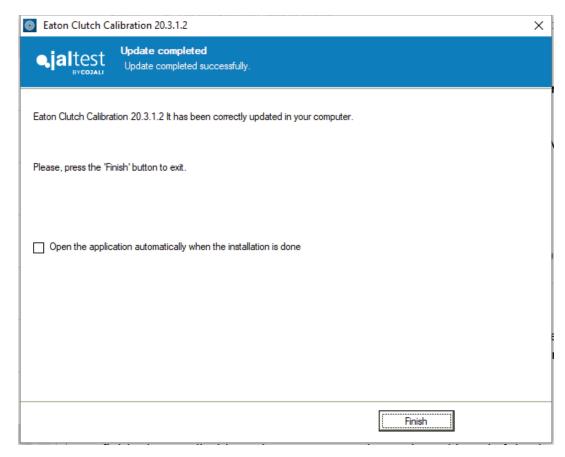
"Product improvement" helps us to receive anonymous data which can be used to improve the product and user experience.

It is possible to uncheck the box, in case you do not wish to send the information. This can be modified at any point in time from the software, once installed. See the second picture below (option available in "Preferences" menu > "Configuration" section).





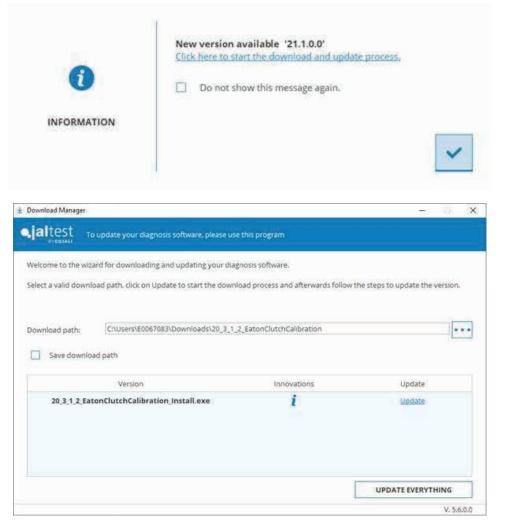
When the installation process is completed, this window will appear. Check the box and the software will open.



There will be a minimum of one (1) version per year, but probably the frequency of updates will be every four (4) months to update any of the software variants released by the manufacturers to the market. New functions and improvement may be added.

Latest version will be available at the next locations:

- Eaton Advantage Automated Clutch Calibration will notify if a new version is available. By clicking on the hyperlink provided, a "Download Manager" (DM) will serve as a guide for the download process. Once downloaded, the DM will offer to install the new version.
 - This is the recommended option by Cojali.



2) Latest version will be also available at:

https://www.jaltest.com/ oemsolutions/eatonadvantage-automated-clutchcalibration-tool/

The package will be downloaded as a zip file. It will be necessary to extract the files and launch the executable file.

Name	Date modified	Туре	Size	
20_3_1_2_EatonClutchCalibration.zip	10/21/2020 11:10 AM	Compressed (zipp	1,812,184 KB	
Name	Date modified	Туре	Size	
20_3_1_2_EatonClutchCalibration_F1F	10/6/2020 7:18 PM	File	111,063 KE	
20_3_1_2_EatonClutchCalibration_F2F	10/6/2020 7:18 PM	File	111,448 KE	
🌄 20_3_1_2_EatonClutchCalibration_Install.exe	10/19/2020 9:53 AM	Application	643,950 KE	
20_3_1_2_EatonClutchCalibration_Ref	10/14/2020 7:53 PM	File	943,345 KE	
20_3_1_2_EatonClutchCalibration_S1F	10/14/2020 5:22 PM	File	1,145 KE	
20_3_1_2_EatonClutchCalibration_S2F	10/14/2020 5:22 PM	File	1,401 KE	

Once the installation process has started, the following window will appear (for both options).

It is highly recommended to check the first option. After that, it is necessary to confirm that an active internet connection is available to check the status of the license during the process and accept the terms of the License Agreement. Click "Next" to continue.

Eaton Clutch Calibration 20.3.1.2	×				
Welcome Welcome to the update program of Eaton Clutch Calibration 20.3.1.2					
Eaton Clutch Calibration update is about to start. If you want to perform the update process without user intervention, mark the following option. Otherwise, the process will be carried out manually.					
I agree to perform the update without user intervention (the configuration of previous installations will be used)					
Please, read carefully the tems of the agreement of license of use. It is necessary that you accept the license agreement to perform the installation.					
See terms of the agreement of license of use					
I have read and accept the terms of the agreement of license for use.					
WARNING: This program is protected by Copyright Law and International Treaties. The unauthorized reproduction or distribution of this program may result in severe civil and criminal measures. Non-compliance is prosecuted by the law until the maximum consequences.					
Quick Support Next Cancel]				

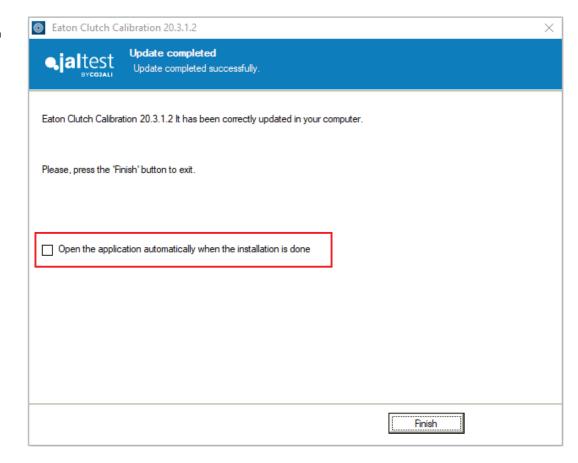
Eaton Clutch Calibration 20.3.1.2					
Content Welcome Welcome Welcome to the update program of Eaton Clutch Calibration 2	0.3.1.2				
Eaton Clutch Calibration update is about to start. If you want to perform the update pr following option. Otherwise, the process will be carried out manually.	ocess without user intervention, mark the				
I agree to perform the update without user intervention (the configuration of pre-	rious installations will be used)				
I confirm that the internet connection of the computer is working properly.					
Please, read carefully the terms of the agreement of license of use. It is necessary th perform the installation.	Please, read carefully the terms of the agreement of license of use. It is necessary that you accept the license agreement to perform the installation.				
See terms of the agreement of license of us	e				
I have read and accept the terms of the agreement of license for use.					
WARNING: This program is protected by Copyright Law and International Treaties. The unauthorized reproduction or distribution of this program may result in severe civil and criminal measures. Non-compliance is prosecuted by the law until the maximum consequences.					
Quick Support	Next Cancel				

In case of need for assistance, click on "Quick Support" to request a Customer Support remote connection.

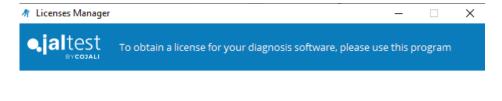
The process will take less than five (5) minutes. Time will vary depending on the PC configuration and performance.

Eaton Clutch Calibration 20.3		¬ ×
Second Welcome Welcome Welcome to	Quick Support − □ ×	
Eaton Clutch Calibration update is a following option. Otherwise, the proc		thout user intervention, mark the
I agree to perform the update	Allow Remote Control	allations will be used)
I confirm that the internet conn	Please tell your partner the following ID to connect to your desktop:	
Please, read carefully the terms of t perform the installation.	Your ID 1783 975 369	cept the license agreement to
	Password	
✓ I have read and accept the ter	q5gx55	
WARNING: This program is protect distribution of this program may resu maximum consequences.	www.teamviewer.com Cancel Ready to connect (secure connection)	thorized reproduction or prosecuted by the law until the
Quick Support		Next Cancel

If desired, it is possible to select to launch the application automatically after the installation is done.

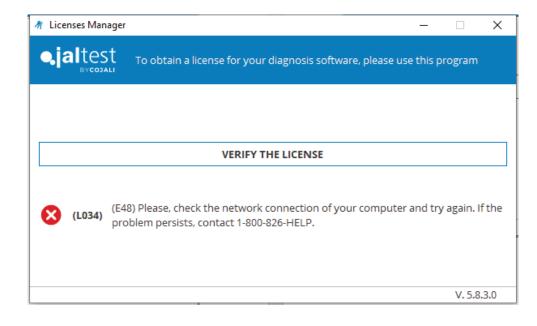


In case the license cannot be validated during the unattended installation, the following window message will appear to verify the license status.



VERIFY THE LICENSE

Internet connection is required (this will be indicated by the software in case there is an issue).



Eaton Advantage Automated Clutch Calibration will welcome you with the following launcher screen. The software launch will take approximately less than one (1) minute.



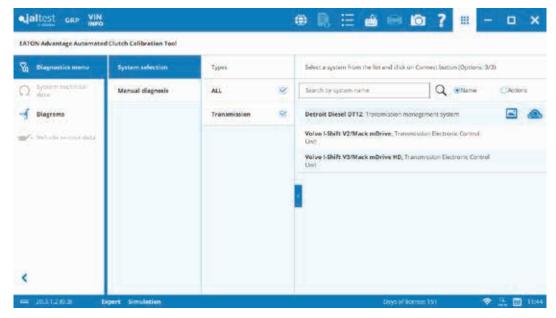
The next window you will see is the "System selection" menu. You will need to manually identify the transmission system you wish to connect to:

Detroit Diesel DT12

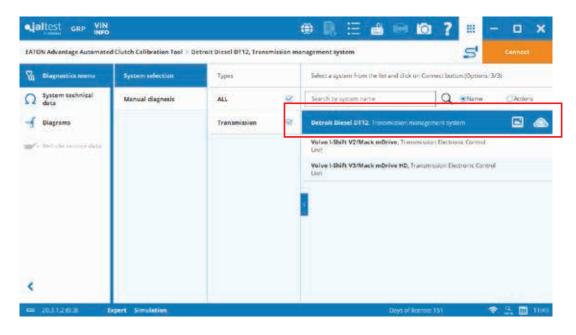
Volvo I-Shift V2 / Mack mDrive (Up to 2012)

Volvo I-Shift V3 / Mack mDrive HD (From 2013)

Note: All three (3) systems use different communication protocols so there is no chance to establish a communication with a different transmission control unit.

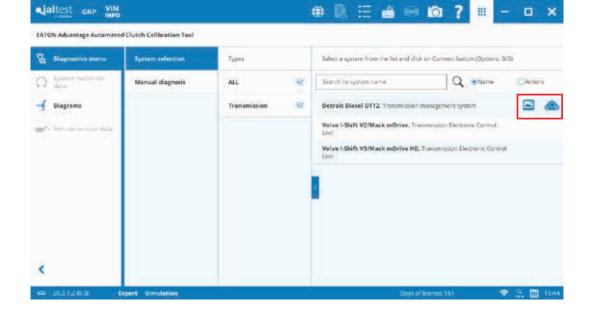


The next step requires selecting the system. Once selected, all system-related information will be displayed, including the "Connect" button.

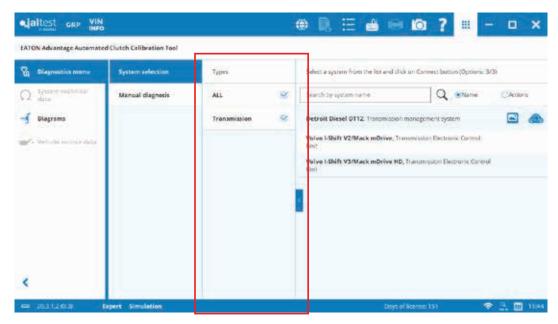


Additional icons may appear in the system line:

- An identification picture.
- Virtual instrument icon to open the System Display option.



If desired, this panel window can be hidden by clicking on the arrow icon.

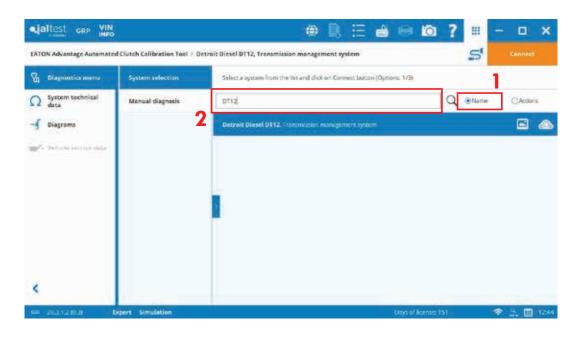


Same icon will restore its previous visualization.

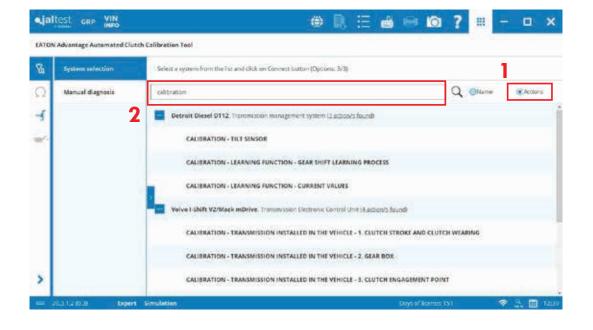
S Diagnostics menu	System selection	Select a system from the list and dick on Connect Lactors (Options: 3/3)
Ω symmetry and a second secon	Manual diagnosis	Search by lightern name Q. @Name CAcitors
- Diagrama		Detroit Diesel 0112. Transmission management system
🖋 Selada multi dala		Velvo I-Shift V2/Mack mDrive, Transmission Electronic Control Unit Velvo I-Shift V3/Mack mDrive HD, Transmission Electronic Control Unit

A Search function is available in the "System selection" menu:

- Search by Name



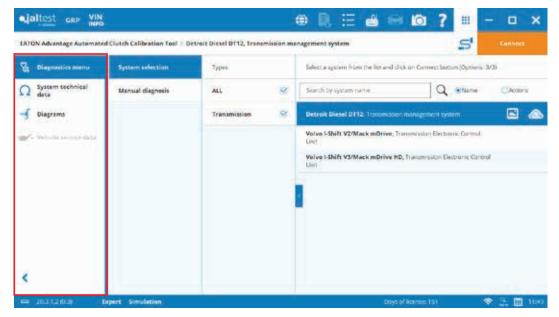
- Search by Actions



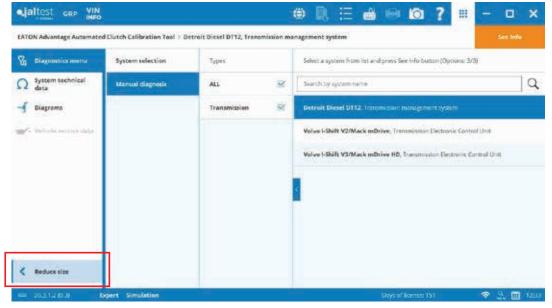
Technical information: System Technical Data, Diagrams and Vehicle Service Data.

Icons in grey mean that information is not available, on the current version, or that it does not apply.

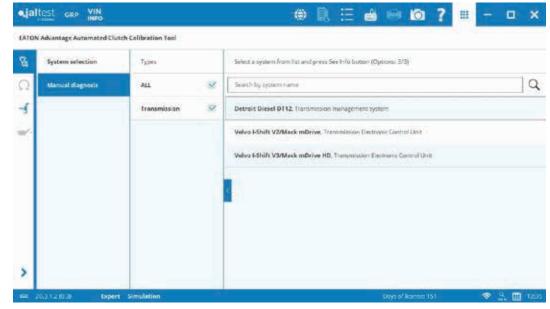
This information helps technicians to access components' specifications, their locations and how they are connected to the electronic control units. Please, click on the different buttons to consult further details.



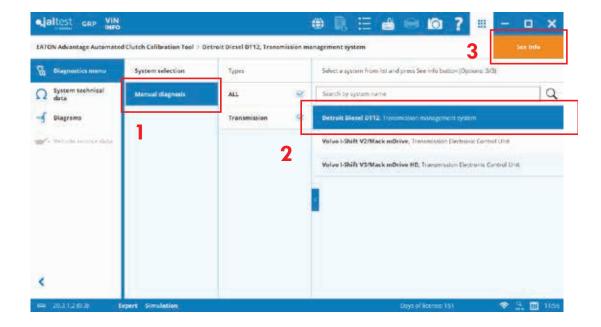
The technical information column can reduce its size.



"Manual diagnosis" menu: This feature allows the search by a fault code in case there is a need to remote assist someone on the road.



Click on "Manual diagnosis", select your system and then click on "See info".



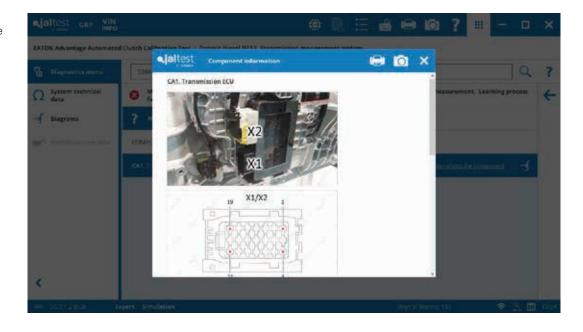
Follow the instruction given in the technical procedure and enter the fault code number. A magnifying glass tool is available.



Fault code description and related technical information will be displayed.



The next picture provides an example when clicking on "See information about the component".



Explanation of the icons displayed at the bottom:

Device Icon

A light will flash when communication is established between the RP1210 device and the ECU. This icon is also used to know what an RP1210 vendor and the communication channel (USB or Wireless) is configured. Additionally, a hyperlink appears in case of changing to a different RP1210 vendor.

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EATON Advantage Automater	d Clutch Colibration Tool	
B Diagnostics menu	System selection	Select a system from the Int and disk on Growet latter (Options, 3/3)
Ω data	Manual diagnosis	Search Ly actions Q Offiame @Accions
-f Diagrams		Detroit Diesel D112 Transmitsion management system
and the second s		Volvo I-Shift V2/Mack mDrive, Transmission Electronic Control Unit
		Volvo I-Shife VS/Mack mDrive HD, Transmission Decourse Control Unit
Jaitest VS RP1210 Ada	pter,USB	
	xpert Sim dation	Days of Recess: 151 🛛 🗢 🖧 🛅 1252

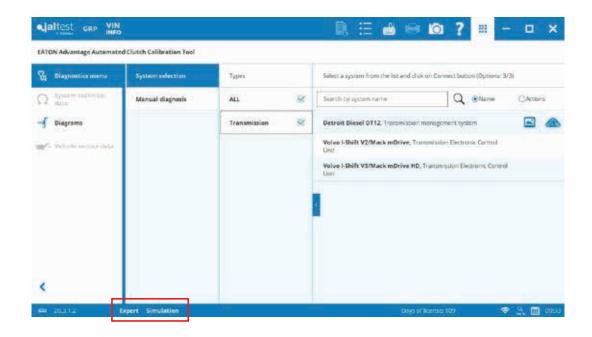
Version Installed

Typical structure: 20.3.1.2 (Year. Third version, of that year. Internal coding. Internal coding). Additional numbers will appear in case the version is a beta. dialtest cap VIN

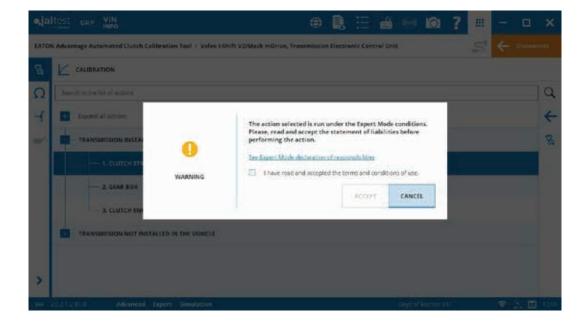
Diagnostics menu	System adjection	Select a system from the list and disk on Connect laston (Options 3/3	8	
Ω due	Manual diagnosis	Search by actions	Q OName	@Actions
oliagrams		Detroit Diesel D112. Transmission management system		6
a technical and the data		Velve I-Shift V2/Mack mDrive, Transmission Decisionic Control Unit		
		Volvo I-Shife VS/Mack mDrive HD, Transmission Electronic Control (J-sk.	
<				

Expert/Simulation Modes

"Expert Mode" will always be displayed by default, meaning that the "Expert Mode" is always enabled.



Actions which modify the ECU memory or require advanced knowledge will warn that the action is under "Expert Mode".



Expert/Simulation Modes

"Simulation Mode" is only available for Cojali, Eaton employees and its distributors. This mode allows you to connect to the systems without having a physical connection to any truck and device.

Note: Do not perform diagnostics on a system if "Simulation Mode" is active.

The sequence to enable this mode is to enter SCO and the code given for your equipment.

To enable it, go to "Preferences" menu and select "Configuration" section.

	Itest GRP VIN				· 101 ?	=	- 0	×
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	¢ 6	Configuration	RP1210 device Data player	P feed	aeck			
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	Manual diagnosis	Searth by allows'				@Actors
1	_ja	Itest Preferences			i ×	
ji.		Configuration	RP1210 device	🏸 Feedback		
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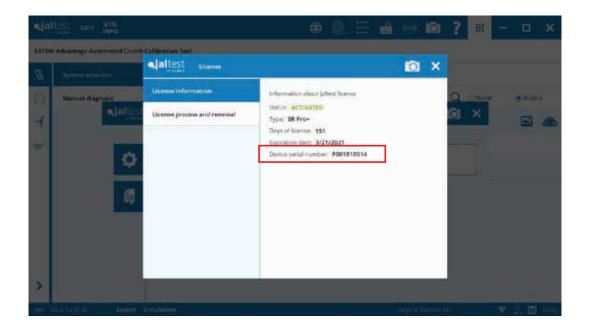
Expert/Simulation Modes

In the "Activate Expert Mode" tab, enter SCO and then your simulation code.

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EATON	N Advantage Auton		user settings) 🛁 🖸	1 ?	×		
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H.		Activate Cepert Mode	See Expert Minde declaration of expressibilities				۲
-		Units of measurement	ing . I have read and and adjusted the terms and conditions of this.				
		Messages	Introduce the key and click on the activation button.	-			
		Product improvement	SCG Activate Expert Mede				
		Demo/Simulation Mode					
>							
	28312(0)3	Expert Simulation	Days of No.	rts:: 151		🗢 🗄 🔟	mm

The simulation code varies for each installation. Serial number must be supplied to generate this code. This information can be obtained in the "License" section from the "Preferences" menu.

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EATO	N Advantage Automated Clutch	Colibration Teol							
8	System selection	Select a patent from the	Tst and click on Connect Loaton	Options 3/31					
Q	Manual diagnosis	Searth by accord					Q ONIN	e games	
-1	jaltest	Preferences					🔘 ×		8
	¢ @	Configuration License	RP1210 devi	œ.	9	Feedback			
>									
	20112-00 Expert	Simulation				Days of Norrest	151	🗢 🗄 🔟 🚥	



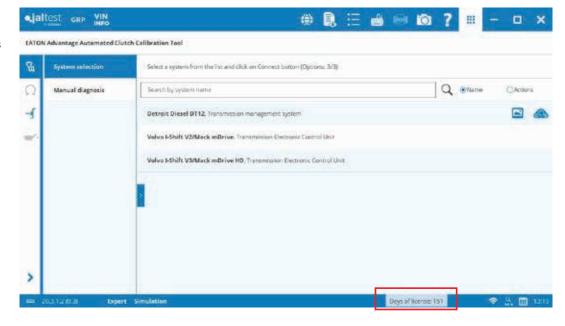
Expert/Simulation Modes

"Simulation Mode" can be kept active for following diagnostics sessions. Also, there is an option to disable this mode.

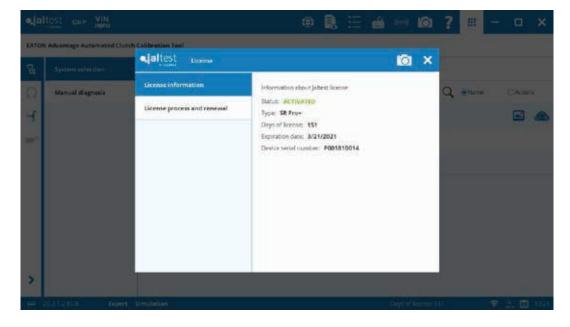
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LATON	Advantage Auton	allest Configuration (user	settings) 📫 🔯 ?	×	
	Systemsselected	Language	Select the following option in order to deactive the DemorSimulation Mode:	~	
Q	Manual diagnos	Graphic customization	Descriver: DemoSimulation Mode		CANNE
đ		Activate Espert Mode	Select the thilowing option to keep the tierna/Simulation Mode activated each sime the application is exercised. Otherwise, it will have to be extrivited		E 🙈
-		Units of measurement	menually for each section by entering the corresponding code.		
		Advanced Settings	Reop the Demo/Simulation Mode activated for each execution of the application		
		Messages			
		Product improvement			
		Demo/Simulation Mode			
>					
		Advanced Expert Simulation	Days of knews 151		🗢 🙏 🖬 1200

Days of License Remaining

In addition to this number, a grace period of thirty (30) days is available.

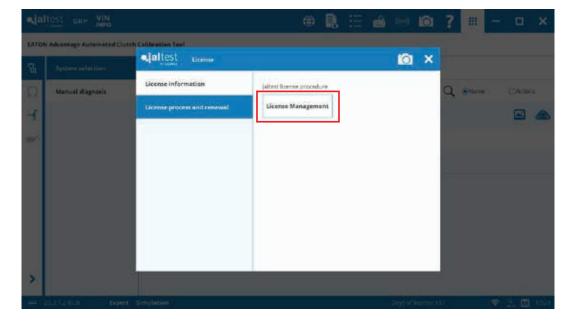


For further details, it is possible to click on the link to access a window with additional information about the license serial number, expiration date and the status of the license.



Days of License Remaining

From this window, a second tab is displayed from which it is possible to manage and enter a new activation code. This is an alternative way in case of purchasing a renewal before the current license expires and the expiration date would not have been updated, normal case because the license status is checked regularly through automatic processes such as registration (every 6 months as maximum) process and every time an update is done as well.

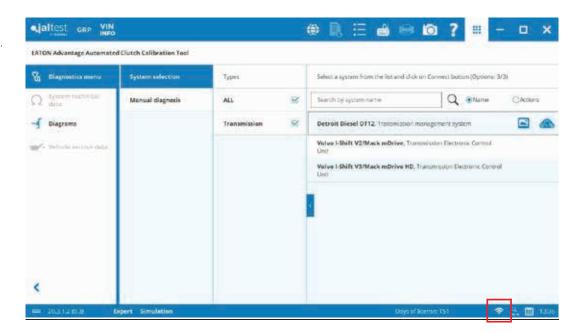


Furthermore, if the license is expired, this previous window will be the first window shown.

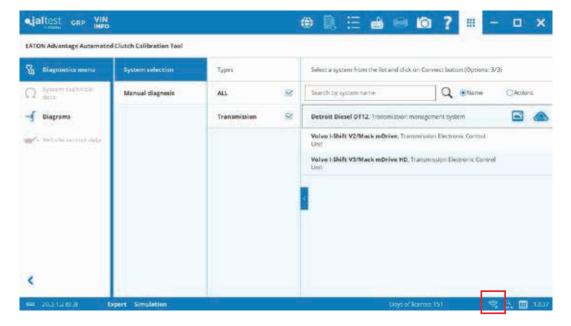
altest To obtain a license for your diag		
Status: ACTIVATED Type: SR Pro+		
and the second se	Licenses Manager	- 11-
Expiration date: 3/21/2021	• altest To obtain a license for your diagnosis software, please use th	ils program
RENEW THE I	CENSE Enter the activistion code that you received by email after purchase. If you do not have an activation code, please go to <u>introvide evidenance</u> unabout	(com)
-44894-57891-52 - 54		
	ACTIVATE THE LITTICE	

Internet connection icon

Internet connection is detected.

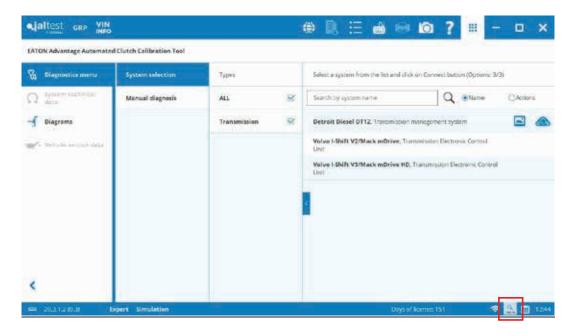


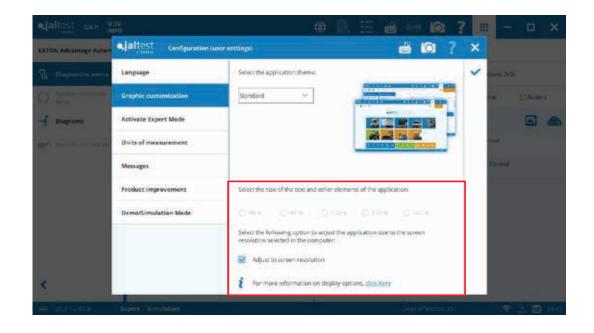
Internet connection is not detected. Internet connection is required to the diagnostics functions.



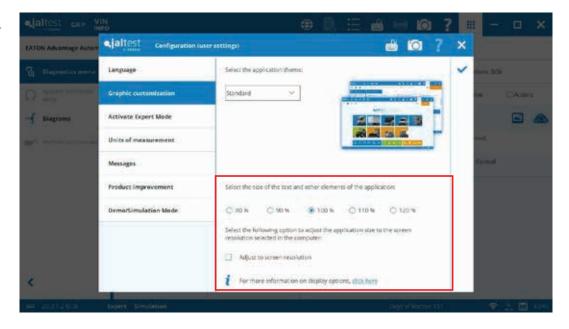
Graphic customization

Size of the text and other elements of the application can be modified. By default, it is recommended to use "Adjust to screen resolution".





Special attention to the note in case external screen or projector is connected.

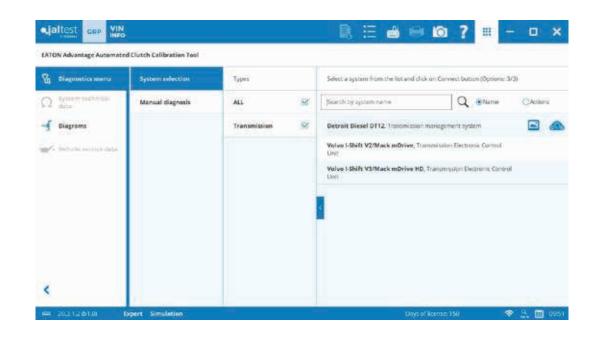


Calendar and Clock

elaltest cap VIN

Diagnostics menu	System effection	Types		Select a system from the list and click on Conne	et butten (Options: 3/3)	
Ω dete	Manual diagnosis	ALL	8	Search by upstann name	Q ®Name	CActors
- Diagrams		Transmission	8	Detroit Diesel 0112. Transmission manageme	nt system	•
A Solidition of the				Volve I-Shift V2/Mack mDrive, Transmission Unit	Electronic Cortrol	
				Volvo I Shift V3/Mack mDrive HD. Transmis Unit	ion Electronic Control	
				4		

Explanation of the icons displayed at the top: GRP



Left Margin

Customer list Vehicle list Reports Start window

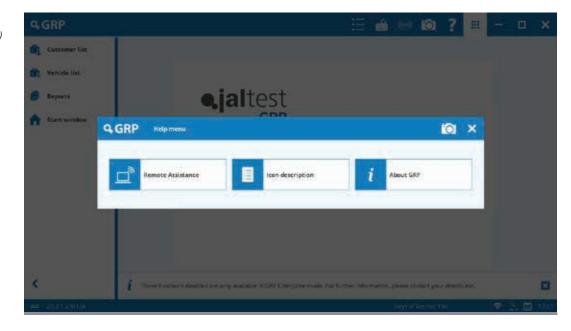
Top Margin

Preferences (See page 45.) Virtual keyboard (See page 49.) Screenshot (See page 50.)



Help Menu

Icon Description (See page 53.) Remote Assistance (See page 52.) About GRP Show/Hide Icon

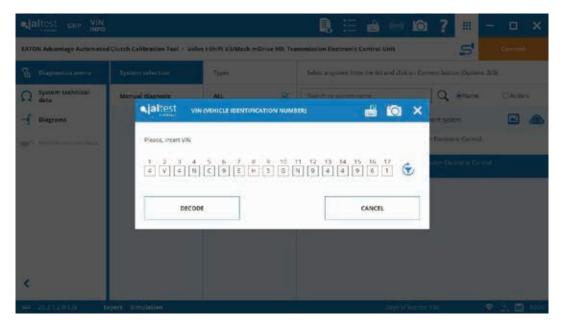


VIN Info

Diagnostics menu	System selection	Types		Select a system from the lot and click un Connect Buttimi (Options: 3/3)
Ω deta	Manual diagnosis	ALL	8	Search by system name Q @Name QAcoor
f Diagrama		Transmission	*	Detroit Diesel 0112. Transmission management system
A Solida and a second second				Volve I-Shift V2/Mack mOniver, Transmission Electronic Control Unit
				Volvo I Shift V3/Mack mDrive HD, Transmission Electronic Control Lieu
			100	

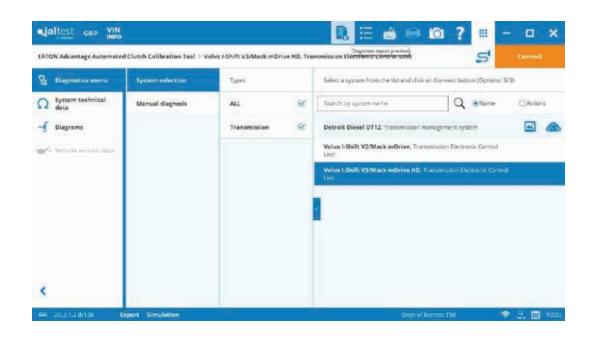
VIN Info

Enter all seventeen (17) digits of the VIN number. In case the ECU offers this information in its memory, the VIN number will be automatically pulled-out and decoded.



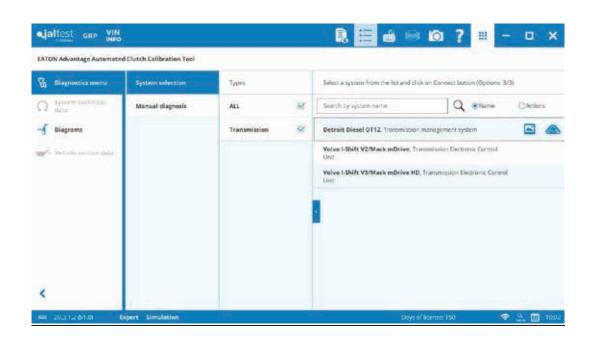
	VIN INFO		8 8 8		?	HL .	– 🗆 🗙
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	Model Year	2016			Î	~	
Ω System techni data	Make	Value				1	CAMPS
- Diagrama	Model	VNL					6
	Engine Type	L6, 12.8L					
	Country	UNITED STATES					
	Assy. Plant	New River Valley, Dublin, VA					
	Production Seq. Number	944951					
	Check Digit	5					
	Cab Type	Conventional-New Generation					
<	Drive Line Type	644					
= 20.112.01.0	Depert Simulation		Descal	ionse (1)		-	P 3. 11 14

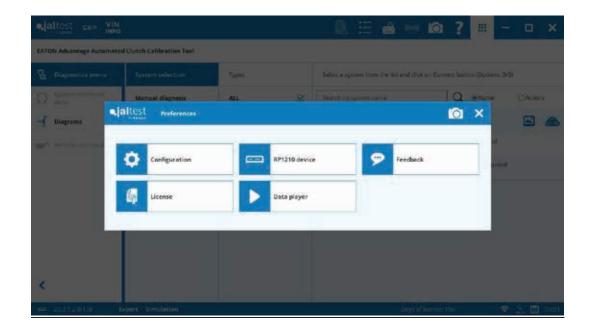
Diagnostic Report Preview



DIEKSKB4330,Dwgrostie	report_c1 (0202)	11.808.22.080X				
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Preferences

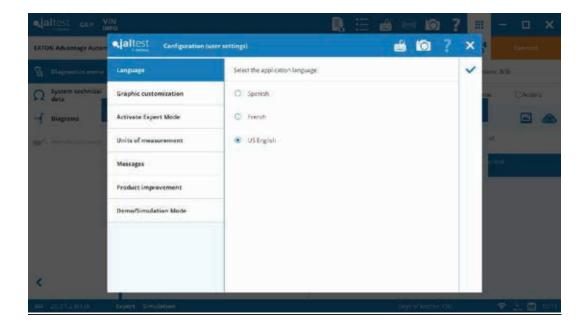




Configuration

Language Graphic Customization (See pages 39-40)

Activate Expert Mode (See pages 32, 34.)



Configuration

Units of Measurement

By default, the measurements used are US units, but this can be customized. Especially useful for Canadian market.

Messages

Some messages with the option of "do not show or ask again…" will be displayed during the use of the software. This can be restored with this option.

Product Improvement (See pages 14-15.)

Simulation Mode (See page 33.)

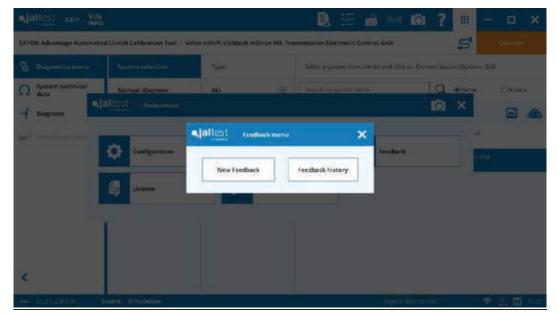
RP1210 Device

(See page 31.)

ATON Advantage Autom	n Fo Altest configuration (user settings):	o main en o la	and the second se
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	Messages	Temperature		See.
	Product improvement	0 % O x		
	Demo/Simulation Mode	Length		-
		Disable unit conversion		
		C S	Reset values to default	
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- 20.3.5.2 (b) (b) -	Expert Simulation		Days of Leonac	1941 🗢 🖄 🔲 1922

Feedback

The software allows for sending suggestions, errors or questions directly to Cojali Engineering. This is very useful when an issue occurs because the software attaches a Log from the vehicle's data bus.



Feedback

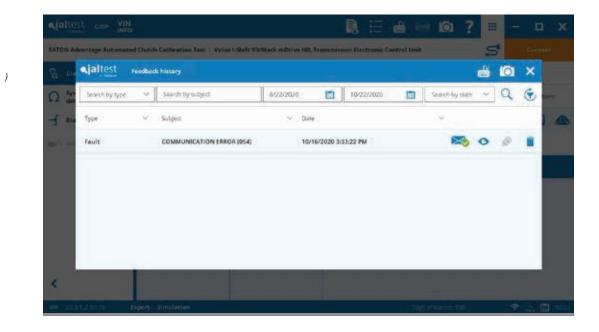
New Feedback

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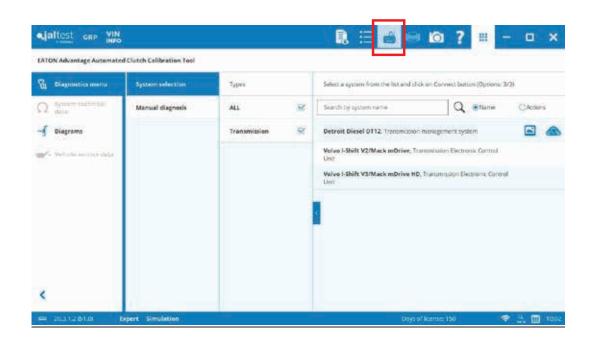
Feedback

Feedback History

License (See pages 8-9

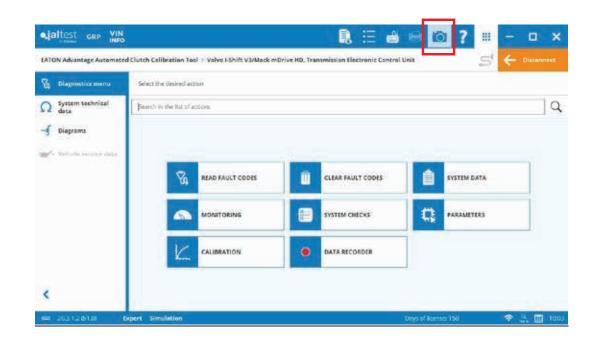


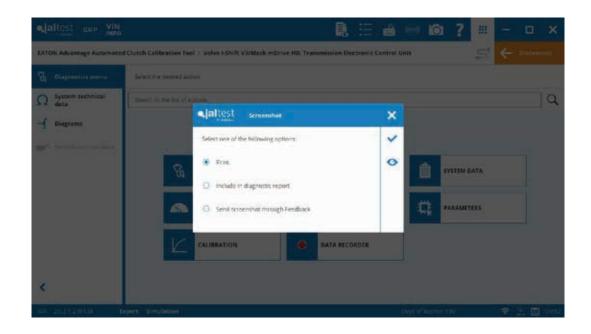
Virtual Keyboard



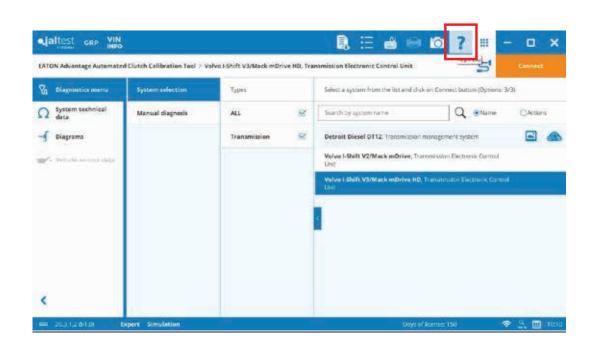
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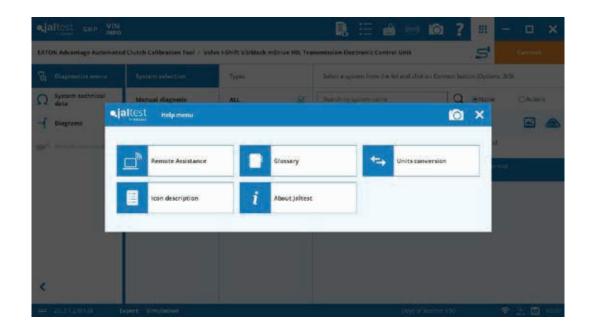
Screenshot





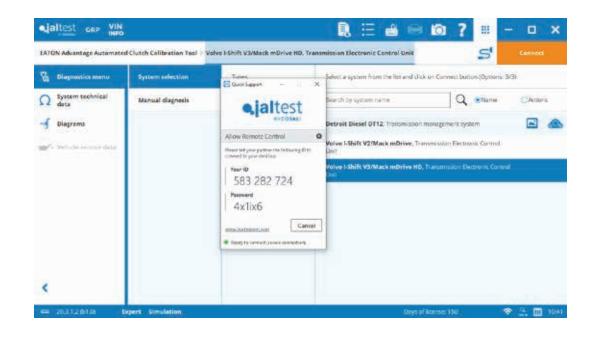
Help





Help

Remote Assistance



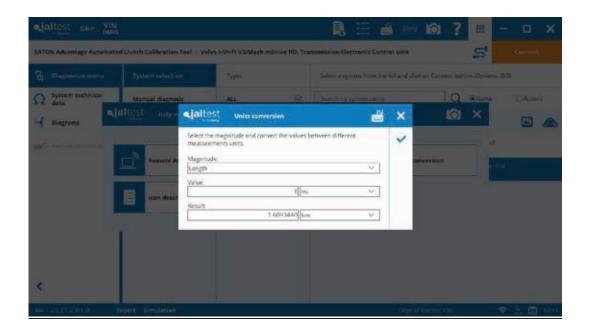
Help

Glossary

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		5	Ŧ	ũ?	4W ETC (4 Wheel Electronic Transmission Coverage	AND ELECTRONICS - TRANSMISSION ELECTRONIC CONTROL UNIT		
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Help

Units Conversion

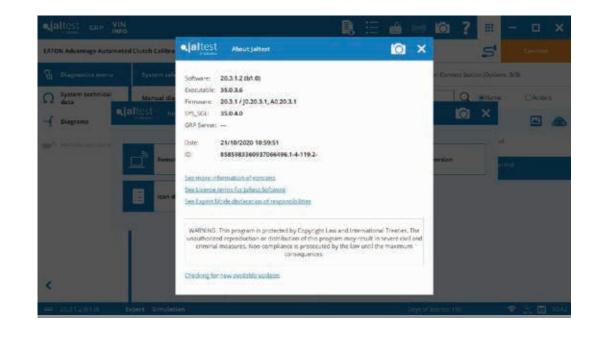




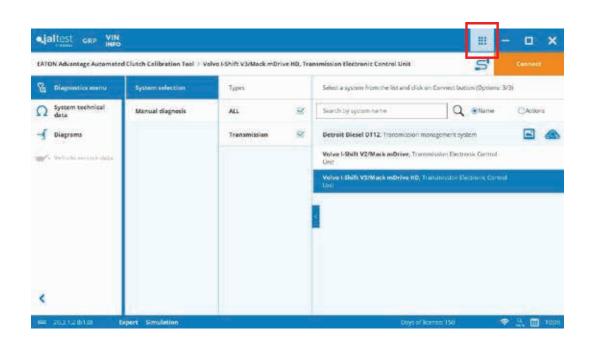
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Help

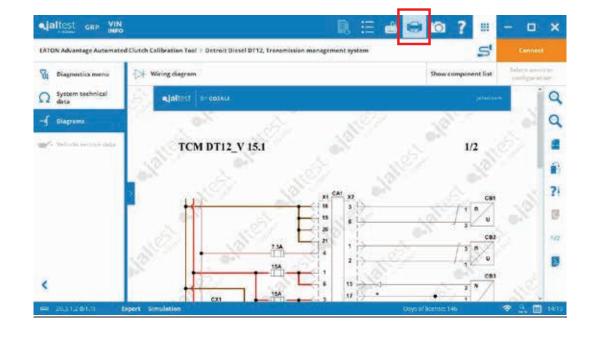
About Jaltest



Hide/Show Options

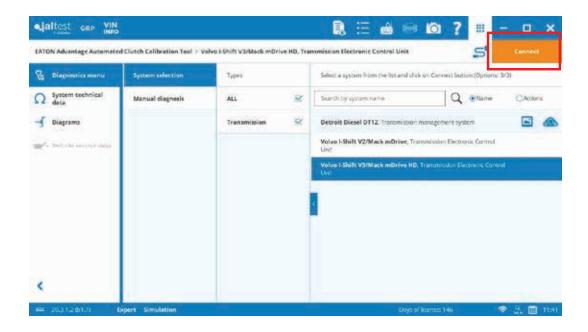


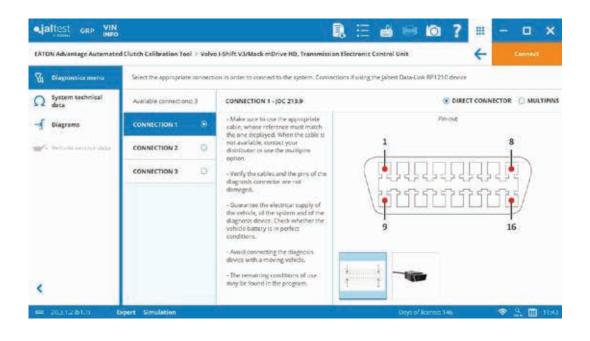
Printer



Connecting to the Transmission Control Unit

Select the system and a "Connect" button will appear. Click on the "Connect" button.



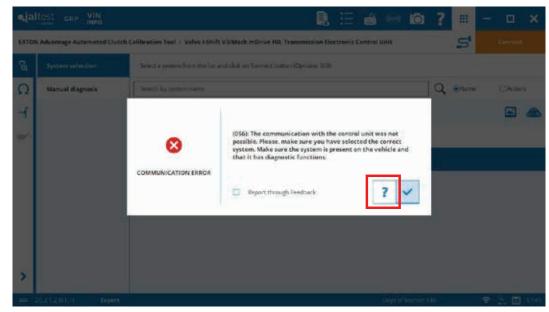


Connecting to the Transmission Control Unit

During the first connection, the software will request to identify the RP1210 device used. This can be modified, as explained before, from the "Preferences" menu > "RP1210 device" section.

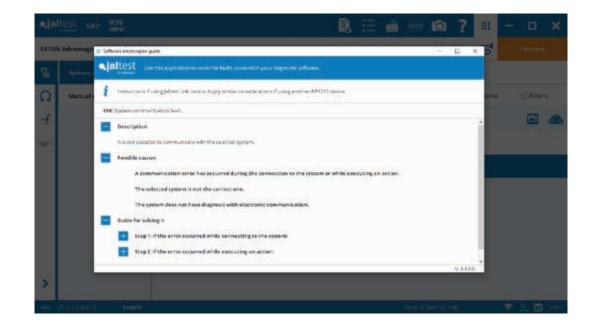
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		Span	Phone number +34 926 589 670	Fax +34 926 589 672				
		1.5 Miles	000000000					
		Web site www.cojali.com	APt Version 20.3.3.0	RP1310 Vension				
		and an other states of the second states of the sec	. Development of	10				

If the connection fails, or potential issues occur, troubleshooting guides will be provided.



Connecting to the Transmission Control Unit

Troubleshooting guide.



Main Menu

Read Fault Codes

Clear fault Codes

System Data (e.g., ECU data, SW and HW references)

Operation Data (e.g., Total and trip data)

Monitoring (Live data and System display)

Actuate Components

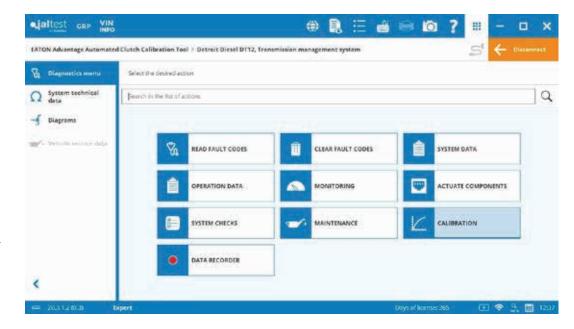
System Checks

Maintenance (components reset)

Calibration (e.g., clutch calibration)

Parameters (reprogram transmission ECU memory)

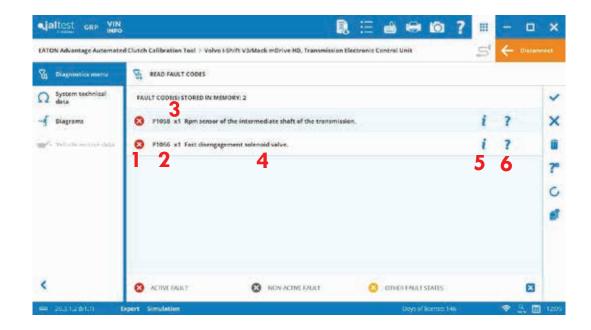
Data Recorder (perform a road test)



Main Menu

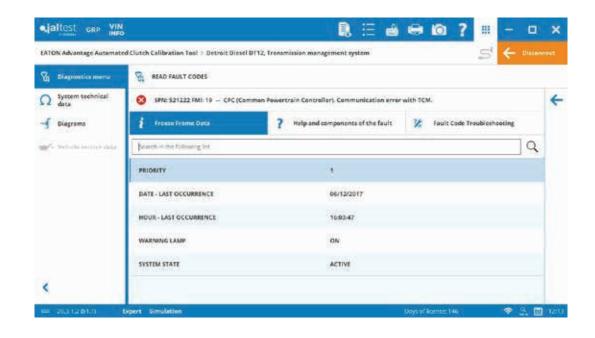
Read Fault Codes

- 1) Fault code status
- 2) Fault code number
- 3) Number of occurrences
- 4) Description
- 5) Freeze frame data
- 6) Help and components related



Main Menu

Read Fault Codes Freeze frame data detail



Main Menu

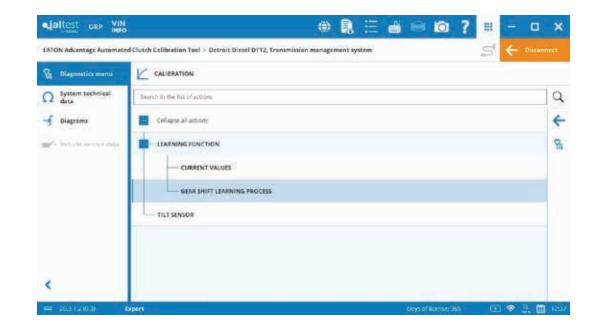
Read Fault Codes

Help and components related detail

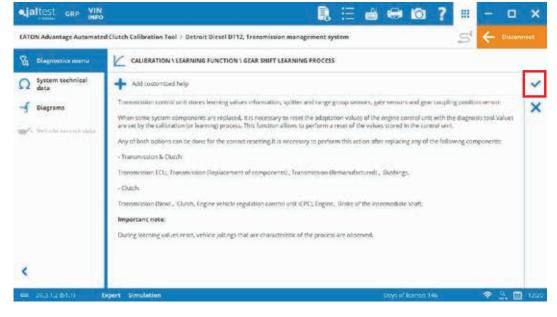
Diagnostics menu	READ FAULT CODES		
System technical data	8 SPR: 521222 FMI: 19 - CPC (Common Powertrain Controller). Communication	on error with ICM.	
Diagrama	i Freeze Frame Data ? Help and components of the	Multi 🧏 Fault Code Troubleshooting	
fo Selinda senini dala	Possible fault causes: - Communication failure or foult. - Incorrect programming data.		
	COMPONENTS INLATED TO THE FAULT		
	CAS, Transmission EEU.	Sea Intramation about the component	£
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	CAN L Diag Line, CAN Low diagnostic line	-	4

Main Menu

Callibration Select the functionality.



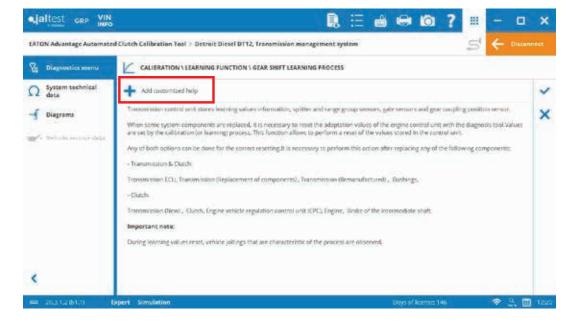
Action Help will be displayed. Read carefully and click on the checkmark icon. During the rest of the steps of the functionality, it will be possible to go back to this information through the question mark. See third picture below.



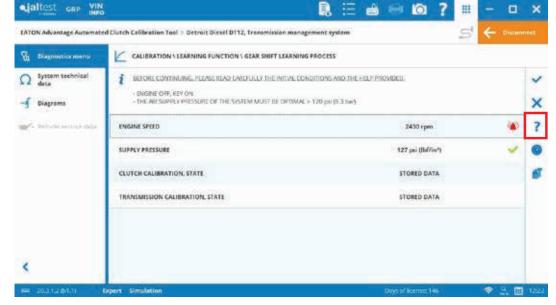
Main Menu

Callibration

It is possible to customize the action help using the next highlighted icon.



During the functionality, some initial conditions will need to be met in order to successfully carry out the procedure.



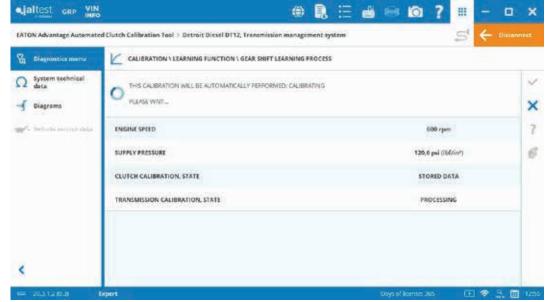
Main Menu

Callibration

Pay attention to the next icons to make sure those conditions are met. Click on the checkmark once these initial conditions are met.

BEFORE CONTINUING, PLEASE READ CAREFULLY THE INITIAL CONDITIONS AND THE HEL - SMGINE OFF, KEY ON - THE ARE SUPPLY PRESSURE OF THE SYSTEM MUST BE OPTIMAE > 120 price 3 bird	IF PROVIDED.					
ENGINE SPEED	2430 rpm					
SUPPLY PRESSURE	127 pai (lbf/in?)	~				
CLUTCH CALIBRATION, STATE	STORED DATA					
TRANSMISSION CALIBRATION, STATE	STORED DATA					
	- ENGINE OFF, KEY ON - THE ARE SUPPLY PRESSURE OF THE SYSTEM MUST BE OPTIMAL IN 120 pri (B.3 Ban) ENGINE SPEED SUPPLY PRESSURE CLUTCH CALIBRATION, STATE	- BIGINE OFF, KEY ON - THE ARE SUPPLY PRESSURE OF THE SYSTEM MUST BE OPTIMAE in 120 pail (B.3 Bar). ENGINE SPEED 2430 rpm SUPPLY PRESSURE 127 pail (Mr/In % CLUTCH CALIBRATION, STATE STORED BATA				

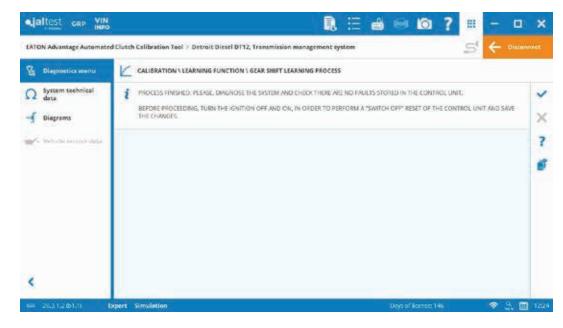
The calibration process will start. Checkmark is disabled as this is an automatic step. It will finish automatically.



Main Menu

Callibration

The calibration has finished. After this step, the new values stored on the ECU will be shown.



See new values stored in the next picture. It is possible to add comments in the diagnostics report.

	1. E	🗃 🖶 🙆 ? 🗉	0	×
EATON Advantage Automate	d Clutch Calibration Yool > Detroit Diesel D112, Transmission management system	5	5 🔶 Discon	nekit.
Diagnostics menu	CALIBRATION \ LEARNING FUNCTION \ GEAR SHIFT LEARNING PROCESS		8-C	
Ω System technical data → Diagrama	CALIERATION PROCESS COMPLETED THE CURRENT VALUES ARE DISPLAYED NEXT.			××
🖋 Selicita antici data	Sectors in the live data line		Q	?
	SPLITTER GROUP SENSOR, LEARNED VALUE (MINIMUM VALUE)	3,267 in	1	6
	SPLITTER GROUP SENSOR, LEARNED VALUE (MAXIMUM VALUE)	2,440 in		
	RANGE GROUP SENSOR, LEARNED VALUE (MINIMUM VALUE)	1.535 in		
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	GEAR SENSOR, LEARNED VALUE (MINIMUM VALUE)	3,661 in		
<	GEAR SENDOR, LEARNED VALUE (MAXIMUM VALUE)	1,692 in		
= 20.31.2.01.01	Spert Simulation	Days of Ikcenses 146		12225

Main Menu

Callibration

Every time a functionality is completed, there is a shortcut to read fault codes.

577	d Clutch Calibration Tool > Detroit Diesel D112, Transmissio	127 1					5			
B Diagnostics menu										
Ω System technical data	Search in the Battof actions.									9
-f Diagrama	Collapse all actions									+
an initial initial and	LEARNING FUNCTION									8
	CURRENT VALUES									
	GEAR SHIFT LEARNING PROCESS									
	TILT SENSOR									
<										
= 20312.01.0	Depert Simulation		_	_	Joys of licen	- 10		*	3. m	-

Once the diagnostics session is completed, it is possible to select "Disconnect", to disconnect from the system.

System technical data	and the second se					
	Search in the flat of accord					Q
- Diagrams	Collapse all actions					+
2 Tell-di sectore dala	CURRENT VALUES GEAR SHIFT LEARNING PROCESS					8
<						

Main Menu

Callibration

When closing the software or when selecting to preview the diagnostics report (at the top, icon beside the "Preferences" button), it is possible to generate a diagnostic report which can be stored in the GRP module. Also, the checkbox shown below can be enabled to save these preferences for future times.

• altest GRP VIN				R	Ξı	a 🖂 16	1 ?	# -	- 🗆 🔾
EATON Advantage Automater	d Clutch Calibration Tool								
G Diagnostics menu		Types		Select a sy		e list and click on C	ormeet bu		
O here	Manual diagnosis	ALL	2	Surchity	iystem i erte	£	19	 Name 	CAtions
J Diagrams		ľ					1.35		6
-			The diagnostic report Otherwise, the inform			a would be save it?	Entr	onia Contrad.	
			Do not show this measage ag			sage again			
	WARNING				YES	NO			
		_							
2									
\$									
= 20.21201.0 D									

Select "YES" and a diagnostics report preview will appear. The report can be saved and printed (in PDF format as well).

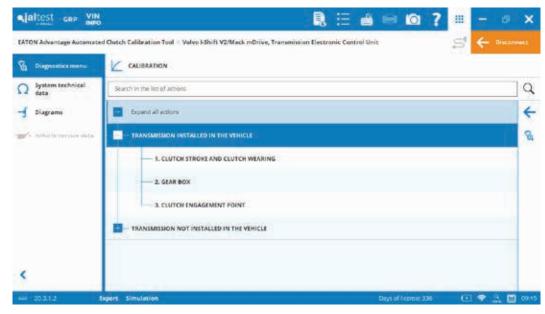
altest	Fraview								≝ 🖶
		FAT-R Powering Balines				e,j a	BYCOJALI	' 5/N: P003810034	
		Customer's Name			Tax-0-/-001	trucke No.	Date 26/10/2020	5x1113719/Com	
I	4	Lourse plans	VN		Number or some		- Englishered		1
		Detroit Diesel OT12 VII CODI SERICLE DUTE CUI STALL AUMETRICO HARDWAR MUNICAL FA Volvo I-Shift V3/Ma BANC DEVD SODE	, Transmissic s carico Auto eccelo Izreco et uswere Arr ck mDrive HI	5576 3400807/340400 965 9 445 36 29 705 0 9, Transmission Ele	(DEMO/SIM 12) ctronic Control Ur	n (DEMO/SIMUL	ATION MODE)		

Clutch Callibration

This is the necessary selection when a new Eaton Advantage Automated Clutch tool is installed.

Volvo I-Shift V2 / Mack mDRIVE

Note: Clutch calibration with the transmission not installed in the vehicle is also supported.



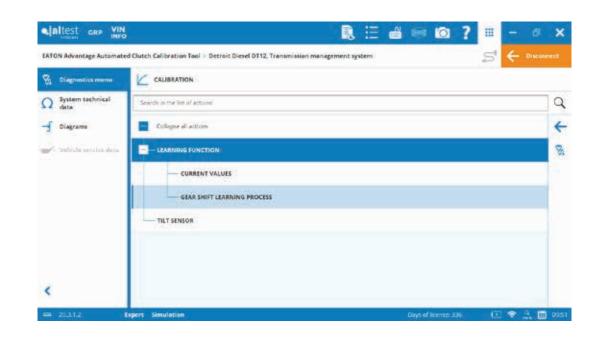
Volvo I-Shift V2 / Mack mDRIVE

Select "New clutch" option.

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Clutch Callibration

Detroit DT12



Important.

Select "Clutch" option. The other option is used in case TECU and/or other components would have been replaced.

7 Diagnostics menu	CALIBRATION & LEARNING FUNCTION & GEAR SHIFT LEARNING PROCESS	
System technical	LEARING FUNCTION, IF YOU DO NOT WERE TO CONTINUE, PLEASE, CANCEL THE PROCESS	
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Clutch Callibration

Volvo I-Shift V3 / Mack mDRIVE HD

Select the option highlighted. The first one would be in case you want to perform the adjustment without clutch disc replacement.

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EATON Advantage Automate	d Clutch Calibration Tool > Volvo I-Shift V3/Mack mDrive ND, Transmission Electronic Control Unit 🔤 🗲 Drive	
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SUPPORT

For spec'ing or service assistance, call 1-800-826-HELP (4357) or visit www.eatonpartsonline.com. In Mexico, call 001-800-826-4357.

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