Date: 26th February 2025



TECH TOOL RELEASE NOTES

Version 2.8.310



Volvo Group

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TECH TOOL RELEASE NOTES 2.8.310

Overview

These release notes give you an overview of new features and changes in Tech Tool. Please take your time to read through this news carefully as it will support having the full benefit of new features and changes in this version of Tech Tool.

Tech Tool release 2.8.310 is available for download in the Client Update from week 09, 2025.

Limitations / Challenges

- 1. Restarting Tech Tool daily is recommended to free up resources and improve the application performance.
- 2. It is recommended to perform 'Finish work' at the end of a connected product session before connecting to the next product. This will speed up the process of connecting to the next product.

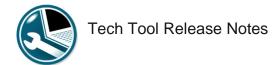
Recommended Actions

- 1. Before initiating Tech Tool installation via Client Update, ensure that all the Windows updates have been completed. Otherwise, Windows Update might cause the computer to restart, which may lead to the reinstallation of Tech Tool.
- 2. Restart the computer after installing Tech Tool for both a fresh installation and an update via Client Update.



Prerequisites

- Users must have their User Principal Name (UPN) details available to match their corresponding existing user ID for logging into Tech Tool. This information will be necessary for logging into Tech Tool following the installation of version 2.8.210 and above.
 - Internal users under Volvo Corporate Network (VCN) should use their corporate email addresses.
 - External users should use their Tech Tool user ID followed by @ext.volvogroup.com (Example: UserID@ext.volvogroup.com).
- 2. *.msappproxy.net must be added to the whitelist without SSL inspection. Please reach out to your local IT administrator to carry out this whitelisting procedure.
- The 2010 port (https) must be accessible for all traffic. Please contact your local IT administrator to open the port and then proceed with restarting the installation. Port enabling is necessary only for users downloading and installing Tech Tool through Web/ISO. However, it's not applicable for CLUP updates.



What's New

Description	Brands
Updated contact information is now available in the Tech Tool Help menu.	ALL
The Impact tab in Tech Tool is not visible when connected to a UD product.	UD
Enhanced error handling for programming operations by implementing unique	ALL
error codes and providing detailed instructions.	

Fixed Issues

Description	Brands
Resolved the issue where the Email ID was not populating when submitting a	VCE
concern report from TechTool	



Operation Changes in The Release

Operation	Changes	Brands	Models
25846-3/2589-08-03-05	Operation has been updated by	ALL	ALL
SCR System (Test A)	improving the test description /		
	result for Euro6 Step E only with		
	Bosch Urea system.		
1700-08-03-33	Operation has been updated for	VTC	VN (4)
Function Parameter	engine oil reset.		
Reset	Only applicable for North		
	America.		
3522-08-03-01	Operation has been updated by	VTC <i></i> ⊘	VN (4)
Headlamp heating	removing the headlamp heating		
element check	element operation graph.		
	Only applicable for North		
	America.		
1700-08-03-05	Operation has been updated by	VTC	VN (4)
Vehicle Life and Trip,	adding new parameter for OBD		
Report	Data selection B, concerning the		
	number of warm-ups since DTC		
	cleared.		
	Only applicable for North		
	America.		
3600-07-03-02	Operation has been updated	VTC	VN (4)
Add or Remove Key Fobs	and simplified the procedure for		
	adding or removing key fobs for		
	Push Start variant trucks.		
20005-3	Operations have been enabled	VTC	FE (3)
Fuel consumption data	for Tier 4f Stage 5 for EM-STA5		
	emission.		



Operation	Changes	Brands	Models
20006-3	Operations have been enabled	VTC 🖉	FE (3)
Engine statistics data	for Tier 4f Stage 5 for EM-STA5		
	emission.		
21006-3	Operations have been enabled	VTC 🖉	FE (3)
Cylinder compression	for Tier 4f Stage 5 for EM-STA5		
	emission.		
21081-3	Operations have been enabled	VTC 🖉	FE (3)
Engine speed and PTO,	for Tier 4f Stage 5 for EM-STA5		
test	emission.		
22001-3	Operations have been enabled	VTC 🖉	FE (3)
Oil pressure test (during	for Tier 4f Stage 5 for EM-STA5		
cranking)	emission.		
23016-3	Operations have been enabled	VTC 🖉	FE (3)
Cylinder balancing	for Tier 4f Stage 5 for EM-STA5		
	emission.		
23021-3	Operations have been enabled	VTC <	FE (3)
Fuel consumption, check	for Tier 4f Stage 5 for EM-STA5		
	emission.		
23040-2	Operations have been enabled	VTC	FE (3)
Fuel pump flow	for Tier 4f Stage 5 for EM-STA5		
compensation	emission.		
23754-3	Operations have been enabled	VTC	FE (3)
Injectors	for Tier 4f Stage 5 for EM-STA5		
	emission.		
23766-3	Operations have been enabled	VTC	FE (3)
Common rail pressure	for Tier 4f Stage 5 for EM-STA5		
release	emission.		
25003-3	Operations have been enabled	VTC 🖉	FE (3)
Boost pressure, test	for Tier 4f Stage 5 for EM-STA5		
	emission.		



Operation	Changes	Brands	Models
25005-3	Operations have been enabled	VTC	FE (3)
Response, test	for Tier 4f Stage 5 for EM-STA5		
	emission		
25006-3	Operations have been enabled	VTC	FE (3)
Intake and exhaust	for Tier 4f Stage 5 for EM-STA5		
system, check	emission.		
25351-2	Operations have been enabled	VTC	FE (3)
Response, exhaust	for Tier 4f Stage 5 for EM-STA5		
pressure	emission.		
25857-3	Operations have been enabled	VTC 🕗	FE (3)
AdBlue crystallization	for Tier 4f Stage 5 for EM-STA5		
catalytic muffler,	emission.		
regeneration			
28420-3	Operations have been enabled	VTC	FE (3)
Flywheel and camshaft	for Tier 4f Stage 5 for EM-STA5		
signal	emission.		
3600-08-03-01	Operation has been enabled.	VTC	VN (4)
Flexible Switches			
8750-06-03-03	Operation has been enabled.	VTC	VN (4)
Parking Heater Function			
8790-08-03-01	Operation has been enabled.	VTC	VN (4)
Parking Cooler			
3690-07-03-02	Wireless Sensor Gateway	VTC 🖉	VN (4)
Wireless sensor gateway	(WSGW) calibration to correct		
(WSGW), calibration	the parameter mismatch DTC		
	U3000-54 and commission or		
	recommission range extenders.		



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Operation	Changes	Brands	Models
87923-3	Operation has been enabled to	VTC	FHE (4), FME (4)
Cab Heating Circuit	make sure that the cab heating		
Components	circuit components are working		
	as expected.		
23016-3 / 2387-08-03-01	Operation has been updated by	VTC	FH (4), FM (4)
Cylinder Balancing	adding information about the	VBC♥	B11R, B13R
	four rail pressure offset levels in	RT∽	C, K, T, T HIGH,
	description. Two erratic bar		D WIDE,
	graph values have been fixed.		
2551-08-03-02	Operation has been updated by	VTC <	Volvo and MACK
Variable Geometry Turbo	improving the test routine which	MACK	models
Function	holds the actuator in the closed		
	and open positions for several		
	seconds to detect actuator stuck		
	error.		
	Applicable to OBD2019 to		
	current VGT engines.		
	Applicable only for North		
	America.		
Operation Update	Operations support have been	VCE	Asphalt
	updated with support for CEA2+		Compactor
	architecture.		model:
			PT125C
Operation Update	Operations support have been	VCE	Soil Compactor
	updated with support for CEA2+		models:
	architecture.		SD45B, SD75B
Operation News	Operations support have been	VCE	Rigid Hauler
	added.		model:
			R70E



Operation	Changes	Brands	Models
22166-3 Control Valve, variable oil	Operation has been updated for	UD	UD-HD3
pump	engine speed operation range EM-JPN 25, ENG-VE13.		



Diagnostic Changes in the Release

Diagnostic	Changes	Brands	Models
Diagnostic Update	Diagnostic content has been updated for the	VTC 🖉	FME (4),
	CCM panel symptoms-based fault tracing as		FHE (4)
	well for the DTCs.		
Diagnostic Update	Diagnostic support has been updated by	VTC	VNRe
	enabling HMD datalink FT.	RT♥	DE
Diagnostic News	Diagnostic content has been added.	VCE	Crawl
			Excavator
			model:
			EC230FCN
Diagnostic News	Diagnostic content has been added.	VCE	Soil
			Compactor
			model:
			SD125B
Diagnostic Update	Diagnostic content has been updated with	VCE	Crawl
	smart diagram.		Excavator
			models:
			EC400F,
			EC500F
Diagnostic Update	Diagnostic content has been updated to	VCE	Crawl
	support TEA2 plus architecture.		Excavator
			models:
			EC210FCN,
			EC220FCN,
			EC230FCN
Diagnostic Update	Diagnostic content has been updated to	VCE	Wheeled
	support Co-Pilot 2.0.		Excavator
			models:
			EW140E,
			EW150E



Diagnostic	Changes	Brands	Models
Diagnostic Update	Diagnostic content has been updated to	VCE	Crawl
	support Co-Pilot 2.0.		Excavator
			models:
			EC350E,
			EC380E,
			EC480E,
			EC530E,
			EC550E,
			EC750E,
			EC950F,
			EC220E,
			EC230EL,
			EC250E,
			EC300E,
			ECR235E,
			ECR355E,
			EC140E,
			EC160E,
			EC180E,
			EC200E,
			ECR145E
Diagnostic Update	Diagnostic content has been updated for	UD	UD-HDE
	coolant level sensor DTCs.		



Known Issues and Workarounds

Issue No:	Issue Description	Brands
1.	Tech Tool installation progress bar is frozen during Client Update.	ALL
2.	While programming, the software download might get stuck at 99%.	ALL
3.	While switching between the tabs, Tech Tool might be frozen, or an error pop-up is displayed.	ALL
4.	Inconsistent behaviour in loading J1939 DTCs (Vendor ECUs) in Diagnose tab.	ALL
	Product connection is taking time when connecting with non-	VTNA
5.	Volvo adapter (Nexiq3)	RT
	Note: Applicable to North America	MACK
6.	Tech Tool crashes when trying to exit 3690-07-03-02 Wireless sensor gateway (WSGW), calibration operation. Note: Applicable only to North America model VN (4).	VTC
7.	 Under test operation 87923-3 Cab Heating Circuit Components, Graph readout for Cab climate coolant pump speed is missing. However, there is a digital readout on the right-hand side. If the truck does not have the solenoid valve for the deaeration (air bleeding), then the air bleed valve position will return "Not available" Ambiguous status phrases for Cab coolant direction three-way valve position. ("Short circuit", "Mix circuit" and "Long circuit" will be replaced by "Short loop", "Mix loop" and "Long loop" respectively) Wrong Component location illustration for the water valve stepper motor in Selection C. 	VTC (FHE, FME)



Issue-1: Tech Tool installation progress bar is frozen during Client

Update.

Cause: Under Investigation.

e Tools Help		- 0	>
vailable Updates Registered Tracks			
Search for Updates Download Cancel Insta	III 🗹 Install autom	atically after down	nloa
✓ Update	Size	Release Date	
Tech Tool 2.8			
2.8.140	3.72 MB		- 1
蒜 📝 2.8.141	3.72 MB		- 1
Download Progress:			- 1
Installation Progress: Tech Tool Core Patch, Version:			
2,8.140.16			
			- 1
Overall Progress:			- 1
			- 1
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Description			
Description			
Description			

Suggestion: Restart computer if the progress bar is frozen.

<u>Issue-2</u>: While programming, the software download might get stuck at 99%.

Cause: Under Investigation.

Tech Tool		Aide						-	5	×
Produit		torique produit	Diagnostiquer	Test	Calibrer	Programmer	Impact			
© Réa © Rela Télé Tra Vita Prog	evé des p échargen mps resi esse de grammat	paramètres transfé nent du logiciel dej	référence du logiciel rables des unités de ouis les systèmes cen 09 (3.66 MB de 3.66 M 11 MB b commande	traux		5	17026-3 Programmer l'unité de commande Les unités de commande suivaries servir programmées Modué d'est de calésis certral (ECOM) Modué d'est de calésis arrière (RCOM) Modué d'Est de calésis arrière (RCOM) Unité de commande de la bolle de vitesses (ECOV)			
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Suggestion: Use Quick Repair tool to resolve this issue. Refer Video.



Issue-3: While switching between the tabs, Tech Tool might be frozen.

Cause: Under Investigation.

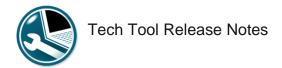
Product History	Distant	See.	Collecte	Provinces			G Yoann Contra
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					3.2		
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<u>Suggestion</u>: Kindly follow the below steps:

- 1. Ensure that there is a stable network as shown in the icon
- 2. Restart Tech Tool.
- 3. If not able to recover, restart the computer.

Issue-4: Inconsistent behavior in loading J1939 DTCs (Vendor ECUs) in Diagnose tab. Cause: Under Investigation.

Suggestion: No workaround



<u>Issue-5</u>: Product connection is taking time when connecting with non-Volvo adapter (Nexiq3)

Cause: Under Investigation.

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Tech Tool Linns Hullp	
Product Product History Disguese Test Calibrate Program Impact	
Selected Product	
Sconnett @ Settings & Manuel Selection @ Laters' Selections B 0600420 + & Addit	
🔹 Tech Tool has recovered from an unexpected shubdown.	
No Connection to Product To select a product do see of the following: - Puga in the USB cable. Clear Connect if the readout does not start subconductat. - Out A betringtion with saftings. - Second manually for a product or poeter model in Manual fieldcom - Select a previously selected product in Latest Selectors.	
Connectivity	
Communication unit VOCOM II Taugh (USB) to connected to the computer.	
Product Product Data: Reading Continii Unit Data	

Suggestion: NA

Issue-6: Tech Tool crashes when exiting Wireless gateway calibration

Cause: Under Investigation.

State State							
Tesh Tesh Low							
Product in	water taken	Manager 1	Test.	California	Property of	inset.	
And a			3	ofee		Juget	
THE OWNER ADDRESS	to ve evenes	-	the later	100.00			
and the last line	-	1000	1.00	10.00			



Suggestion: Using Tech Tool Log Manager, stop the BAF service to end the current work session. Restart Tech Tool.

Note: For any issues & support, kindly use your normal channels.