accelera

by Cummins

Accelera Diagnostics

User Guide

UPDATED 2025



Accelera Diagnostics GET THE SOFTWARE

Download the latest software version here:

CUMMINS.COM

- SOFTWARE SUPPORT PAGE -

Scroll down near the bottom of page and click on the "Download" option

CUMMINS EMPLOYEES

- Go to Answers
- Request the software be installed on your computer

ANSWERS SOFTWARE REQUEST

- Search for "Accelera Diagnostics"
- Follow the onscreen instructions to install the software



Accelera Diagnostics PRODUCT KEY – SNAP ON ACCOUNT

Accelera Diagnostics requires the purchase of a product key. Once the software is installed on your computer, logon to the Snap-on website and purchase a product key. If you are a new user, create a new user account.

PURCHASE ACCELERA PRODUCT KEY





Accelera Diagnostics PRODUCT KEY - PURCHASING

Logon with your username and password.

Select **SOFTWARE** and then select **ADD TO SHOPPING CART**.





Accelera Diagnostics ADD BILLING ADDRESS

Before you can check out, the system requires that your billing address is on file.

Click on the **ADD ADDRESS** button and add your billing address. Once the address is added, click on **BILL TO THIS ADDRESS** to proceed and check out.

	tests deres	
Select Shi	ping option Method Of Payment	Place Order
	Contact Details	
Select Contact Details for this Order		
Please use the fields below to identify the contact	details for this order.	
Attention Of*	Eric Schindler	
Your Phone Number*	123-456-7890	
Your Email Address*	email@email.com	
	 Email order confirmation? Email status updates? Email invoice? 	
	Address 1	
	1000 5th St Columbus Indiana 47201 UNITED STATES	
	Bill to this address	



CREDIT CARD PAYMENT

accelera Y - Search... 1000 5th St, Columbus, Indiana, 47201, UNITED STATES Home My Account * Contact Logged in as ow784 Home / Checkout Logout Select Shipping Option Shopping Cart: 1 Item \$1,500.00 Method Of Payment Select Payment Method for this Order Method Of Payment Credit Card 🌉 🚾 📃 Credit Card Purchase Order You may pay for your order with a credit card by selecting this option. Once you are satisfied that the order information is correct, click the Place Order button on the next page. You will then be prompted to enter your credit card information. Pay by Credit Card You will be given the opportunity to review your order on the next page before submitting it. * denotes required field Page accepts ASCII characters only IDSC Holdings LLC is the owner of the trademark NEXIQ Technologies registered in the United States and other countries, and also claims rights associated with its unregistered ©2023 IDSC Holdings LLC. All rights reserved. Terms and Conditions | Cookie Policy | Privacy Policy | All prices in USD 28.0.2.3

For credit card payment, click on:

- "Pay by Credit Card"
- Follow the onscreen prompts



PURCHASE ORDER PAYMENT

To pay by purchase order, click on the "Purchase Order" link.

accelera	1000 Eth St. Columbus Jodiana 47301 HAUTED STATES	Logged in as ow784
Home My Assounts Contact	1000 Stri St, Columbus, Indiana, 47201, UNITED STATES	
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denotes required field		
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denotes required field Page accepts ASCII character DSC Holdings LLC is the owner o	rs only of the trademark NEXIQ Technologies registered in the United States and other countries, and trademarks.	also claims rights associated with its unregistered



PURCHASE ORDER PAYMENT

Follow the instructions on screen and click on **PAY BY PURCHASE ORDER** to continue.

Logged in as over 1000 5th St, Columbus, Indiana, 47201, UNITED STATES More My Account * Contact More Method for this Order Method Of Payment Purchase Order Method Of Payment Purchase Order An invoice will be sent when your order is shipped. You will be required to provide a purchase order document at time of o and to pay the invoice within 30 days of the date of shipment. Snap-on requires the following information on all purchase orders with credit terms: 1. Our company name: Snap-on Business Solutions. Buil to Address, if different from the Buil to Address, if ny subscriptions as an estimation on the next page. Cottext Failure to provide all required information may delay your orderi Notes: An invoice will be active as shown below. Sapplicable tax, which will be shown as an estimation on the next page.				▼ • Sear	ch
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PURCHASE ORDER PAYMENT

- Attach the Purchase Order document
- Add your email address
- Check the box indicating that you have read, understood, and agree to the terms and conditions of the purchase
- Click the **PLACE ORDER** button

		[▼ • Search	٩
v Currents 1000 5	ith St, Columbus, Indiana, 47201, UNITED S	STATES	Logged in a	s ow784 🌉
Home My Account + Contact			-	Logout
ome / Checkout			Shopping Cart: 1	Item \$1,500.0
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Product Name	Quantity	Unit Price	Subtotal	
Accelera™ Diagnostics 1 Year Subscription 6511298	1	\$1,500.00	\$1,500.00	
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Тах		Cubici	41,000100	
Estimated VAT/sales tax			\$105.00	
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If you have a promotio	n code, you may enter it here to apply the	promotion to your cart.		
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1000 5th St	to provide a purchase order d	ocument at time of orde	r and to pay the	
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UNITED STATES		(pur)		
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	Invoice Email Address*			
	1			
I have read, understood and agree to the Terms and	I Conditions of Purchase. (Click here to	view Terms and Cond	litions)	
Pressing the Place Order button below will cause the order info happens. Plea	ormation detailed above to be submitted int ase review the order carefully before placing	o the order system. You g the order.	will be unable to change it or	ice this
	Cancel Place Order			



COMPLETED PAYMENT

		▼ - Search
accelera.	1000 5th St, Columbus, Indiana, 47201, UNITED STATES	Logged in as ow784
Home My Account • C	Contact	Logou
Administration: 🖶		a - - control the second is
		Shopping Cart: 0 Items \$
	Thank you for your order!	
	Your order has been successfully entered into our system, you will receive an email shortly with the	e order details.
	Your order reference number is IP-100-642487	
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Product Nun 6511298 (: Page accepts ASCII cha IDSC Holdings LLC is the o	Your order contains the following subscriptions: mber Product Key Equi (1) UBXV-9G3VB-UCPF ProductKeyPassword: 10001320 Continue Shopping aracters only owner of the trademark NEXIQ Technologies registered in the United States and other countries, and also on trademarks. (2023) IDSC Holdings IJ C All rights reserved	ipment Start/End 5-Mar-2024 5-Mar-2025

Once the payment is verified, the product key and serial number are displayed on the screen.

The information is also emailed to you.



Once the Accelera product key is purchased, it will need to be registered and activated with NEXIQ Technologies.

Click on the SIGN UP button to create a new user profile. https://registration.nexiq.com/

The username and password created on the NEXIQ registration page will be used to logon to the Accelera software.





When you are completing the new user registration page for NEXIQ, the "org reference" is not used and should default to NO.

If you are a Cummins employee, use "Cummins" for company name.

Company details	
Have org reference (XX-XXXXX)? 〇 Yes 💿 No	
Company name	
Country	
	\$



Once the registration is completed, an email is sent to activate your user account.

Click on the link to "activate your account".





- Once the registration is complete and your user profile is created, launch the Accelera diagnostics software.
- 2. Logon with the username and password created on the NEXIQ registration page.

le Accelera™ Diagnostics Reg	istration	
	Welcome! Please log in to register your so	oftware.
	Usemame	Forgot?
	ow784	
	Password	Forgot?
	*******	0
	I don't have an account	
		Tool ID: 95A50-78D48F-037A5



Accelera Diagnostics ACTIVATE YOUR LICENSE

After logging in, you will be prompted to enter the product key and serial number (it was provided on the completed order page and emailed to you).

Fill in the information and click on REGISTER.

Maccelera [™] Diagnostics Registr	ation X
	Please enter your Product Key:



Accelera Diagnostics HOME PAGE

From the Home page, click the drop-down menu and select the adapter you are using.

Only adapters that have the driver file installed will show up in this list.

- **bottom left corner** shows Adapter connection status.
- **bottom right corner** shows the software version.





CONNECTION SCREEN/TAB | AUTO DETECT

Using the **AUTO DETECT** option, Accelera searches all compatible systems and modules.

This can take up to 2 minutes.

Accelera ^w Diagnostics			_										- @ ×
			Dataplate	Faults	Parameters	Monitoring	X Tests	Special Features	Calibration	Work Orders	Audit Trail	Settings	Contact Us
Auto Detect Systems	Active Connection					Ma	anual Co	onnection					
		₽					Connect m	anually with s	upported co	ntrol modul	es		
© AUTO DETECT SYSTEMS	🧭 Connected	with BES CN	12450 EV107	В				≡ v	IEW SUPPOF	RTED MODU	LES		
Detected Systems BES CM2450 EV107B System Control Module (SCM) DECONNECT		CO		JLE CTIO US	N								
Connected with 8ES CM2450 EV1078 via Cummins US8-Link 3,US8													



Accelera Diagnostics CONNECTION SCREEN/TAB | MANUAL CONNECTION

Using the MANUAL CONNECTION option, select the correct module and click CONNECT.

Utilize the search bar to find the desired module

On Legacy products, use the dropdown arrow to expand the menu and select the appropriate CAN channel.





Accelera Diagnostics DATAPLATE SCREEN/TAB

Once successfully connected, the dataplate screen automatically opens.

The SCM calibration version and serial number are displayed on this page.

\Rightarrow \square \land \land \land \square \Rightarrow \square	2		
Connection Dataplate Faults Parameters Monitoring Tests Special Features Calibration Work Orders	Audit Trail	Settings C	Contact Us
BES CM2450 EV107B		Refresh Si	ave
DESCRIPTION			
ECM Name CM2450A			
ECM Part Number 5572391			
Calibration Software Phase 456267278			
Calibration Time/Date Stamp 1264255328			
System Serial Number 0			
Engine Model pP7u22b1260000000			
ECM Serial Number 3205798			
ECM Code OA10005.10			



Accelera Diagnostics FAULTS SCREEN/TAB

Use the Faults screen to read fault codes, fault description, status and lamp color.

€ Accelera™ Diagnostics									- 0
				onnection Datapl	ate Faults Parameters	Aonitoring Tests Special Feature	res Calibration V	Work Orders Audit	Trail Settings Contact
BES CM2450 EV107	7B								Refresh Clear Save
🕄 Auto - Refresh 💽 🤇	OFF DEFREDUCTION OF Auto - Refresh to automatically refresh faults Last refresh at 01:18:29 PM								
FAULT CODE NO	DESCRIPTION	STATUS	SPN	FMI	FIRST OCCURRENCE	LAST OCCURRENCE	COUNT	LAMP	FREEZE FRAMES
8175	HVESS HVIL Status - Condition Exists	Active	8098	31	000002:28:26	000002:28:26	1	Red	⇒ j
1239	Accelerator Pedal or Lever Position Sensor 2 Circuit - Voltage Above Normal or Shorted to High Source	Active	2623	3	Not Available	Not Available	1	Amber	
14252	Refrigerant Low Pressure Switch - Data Valid But Below Normal Operating Range - Moderately Severe Level	Active	875	18	000002:28:29	000002:28:29		None	→
14253	Refrigerant High Pressure Switch - Data Valid But Below Normal Operating Range - Moderately Severe Level	Active	605	18	000002:28:29	000002:28:29	1	None	→
8457	Plug-In Port 1 Positive Charge Contactor Circuit	Active	521242	4	000002:28:29	000002:28:29	1	Amber	→
8635	High Voltage Measurement Port Interlock Loop (HVMPIL) - Current Below Normal or Open Circuit	Active	521271	5	000002:28:33	000002:28:33	1	Amber	→
4491	Power System Cooler Outlet Temperature Sensor Circuit - Voltage Above Normal or Shorted to High Source	Active	520675	3	000002:28:44	000002:28:44		Amber	→
8267	Battery TMS Coolant Inlet Temperature Sensor - Voltage Above Normal or Shorted to High Source	Active	521235	3	000002:28:44	000002:28:44	1	Amber	÷
12194	Coolant Heater Outlet Temperature Sensor - Voltage Above Normal or Shorted to High Source	Active	516100	3	000002:28:44	000002:28:44		Amber	⇒
12196	Power Electronics Coolant Level Sensor - Voltage Above Normal or Shorted to High Source	Active	516101	3	Not Available	Not Available	1	Amber	
12198	HVESS Thermal Management System Coolant Level - Voltage Above Normal or Shorted to High Source	Active	12897	3	000002:29:04	000002:29:04	1	Amber	→
14523	Powersteering Pump - Abnormal Update Rate	Active	520200	9	000002:29:55	000002:30:26	1	Red	→
285	SAE J1939 Multiplexing PGN Timeout Error - Abnormal Update Rate	Active	639	9	Not Available	Not Available	1 Activ	at a W indov	VS
							00103	econgs to activ	ate windows.

Connected with BES CM2450 EV107B via Cummins US8-Link 3,US



Accelera Diagnostics FREEZE FRAME DATA

To view more detailed information about a specific fault, click on the arrow in the freeze frame box.

Accelera ^{me} Diagnostics										
				Connectiv	on Dataplate Faul	s Parameters Monito	ring Tests Special Fe	atures Calibration	Work Orders Au	dit Trail Settings C
ES CM2450 EV1	07B	Faults Dat								Refresh Clear Sa
2 Auto - Refresh 💽) OFF DE Enable Auto - Refresh to automatically refresh fa Last refresh at 01:18:29 PM	14252 Refrige Level	rant Low Pressure Switch	i - Data Valid But Belo	w Normal Operating	I Range - Moderately Se	evere			
FAULT CODE NO	DESCRIPTION			LIPCT	LAST		CURRENCE	COUNT	LAMP	FREEZE FRAMES
8175	HVESS HVIL Status - Condition Exists	DESCRIPTIO	0N	OCCURRENCE	OCCURRENCE	UNITS	28:26		Red	→
1239	Accelerator Pedal or Lever Position Sensor	Battery Volt	tage	220.0	220.0	v	ilable		Amber	
	Voltage Above Normal of Shorted to High	Percent Act	elerator Pedal or Lever	0	0	%				
4252	Refrigerant Low Pressure Switch - Data va Normal Operating Range - Moderately Se	ECM Time	(Key On Time)	000002:28:29	000002:28:29	HHHHHH:MM:SS	28:29	1	None	→
14253	Refrigerant High Pressure Switch - Data V Normal Operating Range - Moderately Se	Vehicle Spr	ed	0	0	km/hr	28:29	1	None	⇒
8457	Plug-In Port 1 Positive Charge Contactor (Brake Peda	Position Switch	On	On		28:29		Amber	→
3635	High Voltage Measurement Port Interlock - Current Below Normal or Open Circuit	Total Run T	ime	000000:00:00	000000:00:00	HHHHHH:MM:SS	28:33	1	Amber	÷
401	Power System Cooler Outlet Temperature	Total Charg	e Time	000000:00:00	000000:00:00	HHHHHH:MM:SS	28-44		Amber	
491	Voltage Above Normal or Shorted to High	Parking Bra	ke Switch State	Off	Off		20.44		Amber	7
3267	Battery TMS Coolant Inlet Temperature Se Above Normal or Shorted to High Source	Hybrid Ope	erating State	Undefined	Undefined		28:44	1	Amber	→
12194	Coolant Heater Outlet Temperature Senso Above Normal or Shorted to High Source	Hybrid Perc	ent Load	0	0	%	28:44		Amber	⇒
12196	Power Electronics Coolant Level Sensor - Normal or Shorted to High Source	High Voltag	e Battery Actual	Open	Open		- ilable		Amber	
12198	HVESS Thermal Management System Coo Voltage Above Normal or Shorted to Higł					Close	29:04		Amber	÷
14523	Powersteering Pump - Abnormal Update Ra	ate	Active	520200 9	000002:2	9:55 0	00002:30:26		Red	→
285	SAE J1939 Multiplexing PGN Timeout Error Update Rate	- Abnormal	Active	639 9	Not Avail	lable N	Not Available	1 Act	ivat em# /inde	ows

Connected with BES CM2450 EV1078 via Cummins USB-Link 3,U



Accelera Diagnostics PARAMETERS SCREEN/TAB

Depending on the module type and calibration revision, some parameters are editable. The green unlocked icon indicates the parameter is editable.

To edit a parameter, double click on the field. Some parameters are open text fields, some are selectable drop-downs.

Click on the "Send to SCM" icon to save and write the parameter changes to the SCM/module.

						Connection	Dataplate	Faults	Parameters	Monitoring	X Tests S	pecial Feature	s Calibration	Work Orders	Audit Trail	Settings
BES	5 CM2450 EV107B									Shc	• • • • • • • • • • • • • • • • • • •	Expand o	or Collapse Tree V	ew Re-Rea	d Send To SC	M Si
Par	ameters	FEATU	RES /	AND PARAMETERS	SCM VALUE				UNITS				ORIGIN	AL VALUE		
>	System ID and Dataplate	• `	⁄s	ystem ID and Dataplate												
>	Accelerator Interlock	ê	~	Calibration Information												
>	Accelerator Options	•		Calibration Software Phase	456267278											
	Charge Consent	•		Calibration Time/Date Stamp	1264255328											
>	Communication Controller Serial Number	•		ECM Code	OA10005.10											
>	Cruise Control	•	~	Customer Information												
>	Electrical System Voltage	8		Customer Unit Number	000000000											
	Engine Start Stop Permit	•	~	Engine Information												
	Governor Type	•		Engine Make	CMMNS											
>	J1939 Controls	9		Engine Build Date	0											
	Parking Brake Switch	9		System Serial Number	0											
>	Road Speed Governor	•		Engine Model	pP7u22b126000000											
>	SAE J1939 Multiplexing	•	~	SCM Information												
	Service Brake Switch	•		ECM Serial Number	3205798											
	Service Brake Validation Switch	•		ECM Part Number	5572391											
	Starter Lockout	8		ECM Name	CM2450A											
	Transmission Setup	e		ECM Part Number	5572391											
>	Trip Information	•	~	System Information												
>	Vehicle Speed Source	•		Fuel Code												
		•		Advertised Power RPM	3153				RPM							
		•		Advertised Power at RPM	500.2				hp							
		8		Control Parts List	0								Activ	ate Win	idows	
				Governed Speed	2100				RPM				Go to	Settinas to	activate Wir	ndows.



MONITORING SCREEN/TAB

The Monitoring tab allows different data streams to be monitored and logged while the vehicle is in operation.

Select the inputs to be monitored and move them from left to right. Use the navigation buttons at the top right for custom configuration.





Accelera Diagnostics TESTS SCREEN/TAB

Use the Tests tab to perform system tests.

The list of Tests will vary depending on the module type and calibration version.

Select the desired test and follow the prompts or instructions on the screen.

倾 Accelera ^{ne} Diagnostics	_ e	×
	Connection Dataplate Faults Parameters Monitoring Tests Special Features Calibration Work Orders Audit Irail Settings Conta	ect Us
BES CM2450 EV107B		
Battery Refrigerant Compressor Override Test Coolant Heater Reset Cooling Fans Control Test Heater Control Test Thermal Management System Manual Deaeration	Heater Control Test This test commands the Thermal Management System heaters On and Off. Description TMS eHeaters Control feature provides an interface in which the tool can command the Electric Vehicle's Thermal Management System (TMS) eHeaters ON and OFF. After operation has been started, tech can control individual eheaters multiple times.	
	Initial Conditions 1. Vehicle stopped 2. Supply power is not low 3. Contactor is closed 4. Cabin coolant temperature is normal 5. Pump 3 and Pump 5 are not dry 6. Coolant temperature is not high Steps 1. Select Start to begin the test 2. Select Stop to end Additional Information 1. Refer to applicable service documentation for further troubleshooting if necessary	
	Inputs	
	Monitors	



Accelera Diagnostics CALIBRATION SCREEN/TAB

Use the calibration tab to check if the module is on the most current calibration revision.

Also use this page to search for available calibrations from the web or already stored on your local computer.

Accelera ^{te} Diagnostics												- 4
			Conn	ection Dataplate	Faults	Parameters	Monitoring	Tests Special Fea	tures Calibration	Work Orders Au	it Trail Settings	Contac
BES CM2450 EV107B												C2 Refresh
nstalled SCM Code A10005.10 See details	LEGEND	REPLACED CALIBR	ATIONS ACTIVE	CALIBRATION	IS AV	'AILABLE C	alibratio	NS				
CM is up to date with the latest calibration.	Drive Name								Drive Type	Total Size	Available Free	e Space
arch Calibrations	Production Calil	bration Workspace (C:\U:	sers\ow784\AppData\R	oaming\Cummins	ServiceDia	gnostics\Cali	brationWorks	pace\Production)	Folder	1023026393088	63007339724	8
Find Online												
This PC												



Accelera Diagnostics CALIBRATION SCREEN/TAB

Click on **Find Online** to search for a calibration on the web.

Once the calibration file is found, either save it to the local computer/drive or click on install to send it directly to the SCM.





Accelera Diagnostics CALIBRATION SCREEN/TAB

To use a calibration already stored locally on the local computer:

- From "This PC" expand the drop-down menu for the correct product.
- Click on the part number to populate the calibration codes.
- Right click on the desired calibration.
- Click on Transfer To SCM to start the calibration process.

Accelera ^{®®} Diagnostics								- @ ×
	₽		Æ	(0)	⊡ ×		ø	≇ ⊥
BES CM2450 EV107B	Connection	Dataplate	Faults F	^r arameters	Monitoring Tests S	pecial Features Calibration Work Orde	rs Audit Trail	Settings Contact Us
Installed SCM Code			LEGEND	REPL	ACED CALIBRATIO	NS ACTIVE CALIBRATIO	NS AVAIL	ABLE CALIBRA
OA10005.10 See details								
SCM is up to date with the latest calibration.			SCM Code	Market	ElectricPowerRating	ElectricPowerRatingMaxPeak	OEMName	OEMModel
Search Calibrations	Transfer To SCM		OP10001.06	TBD	TBD	TBD	GENERIC	GENERIC
Find Online	View Replacement Ca		0002.06	TBD	TBD	TBD	GENERIC	GENERIC
✓ This PC	Show Active Calibrati	ons Only)006.06					
Production Calibration Workspace (C:\Users\ow784\AppData\Roaming\CumminsServiceDiagnostics\Calibration	r 🗹 Show Available Calib	ations O	nly 🛑					
✓ June 2025	Certification Codes							
> School Bus	Show Calibration His	tory						
✓ Transit Bus								
V BES CM2450 EV109B								
6393602								
> May 2025								
Connected with BES CM2450 EV107B via Cummins USB-Link 3,USB								



WORK ORDER SCREEN/TAB

By default, Accelera Diagnostics will create a new work order every time it connects to a vehicle.

From the work order tab:

- View existing work orders.
- Import a work order that has been shared with you.

Work Orders			BES CM	42450 EV107B		↓ Connection	Dataplate	Feats	E Parameters	Monitoring	interest and inter	Special Features		Work Orders	Audt Irai	Settings	- Con
WO-20250606-134620		ACTIVE	SCM I	mages IMAGE NAME		IMAGE	Type										~
			•	AI-20250606-13462	20	Initial	TIPE			LAST MO	DIFIED 1:46:20 PM		NOT	TES	_		
			+ ^	ADD IMAGE	₽ CONNECT		🖬 Make	TEMPLAT		0.1400							
k Order -20250606-134620	Customer Name		SCM Ten	nplates						φ impo	HKI						
Serial Number 798 Aodified Date 1025 1:46-20 PM	Start Repair Date 6/6/2025 1:46:20 PM System Type BES CM2450 EV1078															×	
+ NEW WORK ORDER																	
r with BES CM2450 EV107B Via Cumu	Ning USB-Link 3,058	-1															



Accelera Diagnostics AUDIT TRAIL SCREEN/TAB

Use the audit trail tab to view what changes have been made to the module during each connection.

In this example, we can see several adjustable parameters were modified and a new calibration was downloaded.





Accelera Diagnostics SETTINGS SCREEN/TAB

From the settings tab:

- Select which adapter is being used.
- Disable work order mode (this is turned on by default).
- Change the preferred language.

Ccelera ³⁴ Diagnostics							- 67 ×				
				Connection Calib	ration Work	Orders Setti	ings Contact U				
Version Information Application Version : v6.1.53 Copyright © 2025 Accelera™ Diagnostics Release Notes Contact Us SCM Security	Controls Workspace Settings Demonstration Mode Work Order Mode Units of Measurement USA Language Setting	•	Adapter Settings Default Adapter Cummins USB-Link 3,USB Change Adapter Cummins USB-Link 3,U.2								
SCM Passwords License User Name : ow784 Subscription End Date : Wednesday, March 4, 2026	English	C S	Chose a default save this and a this adapter fr	adapter. utomatic rom the c	Acce ally po Irop-d	lera w opulate lown.	rill e				
Tool ID : 922CB-7087C8-2F73E5 Release License Terms and Conditions											

by Cummins

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