Freightliner

FLA COE FLB COE **FLD Conventional** Business Class FLC 112 Conventional

Century Class Conventional Argosy Cargo Columbia 122SD and Coronado

> Business Class M2 > Cascadia > 108SD/114SD > New Cascadia

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Description of Revisions: This bulletin replaces the version dated 10/31/2019. Figures have been updated and steps have been revised to clarify vehicle programming.

General Information

IMPORTANT: The process of reading and uploading parameters should **not** be performed if there are parameters on the vehicle's chassis ECUs that are not intended to be recorded in a service record. Only one service record per ECU, per vehicle, will be stored on the server. Once a new service record for an ECU is created, the old record is no longer available for download.

There are two different procedures for programming chassis ECUs with DiagnosticLink:

- Updating functioning vehicle chassis ECUs by uploading the parameters of the vehicle's ECUs to the server and then downloading these parameters with the updated software.
- Overwriting the parameters and software installed on the ECU with the most recent parameter sets and software from the server by directly using 'Program Device' in DiagnosticLink.

Retain the parameter information contained on a vehicle's chassis ECU when the chassis ECU is functional. A vehicle's functioning ECUs should be considered the primary source for parameters. To retain parameters:

- 1. Read the current vehicle's chassis ECUs parameters and upload them to the server in the 'Program Device' window.
- 2. Then program the chassis ECU with updated software using 'Program Device.' The parameters just uploaded will be downloaded with the updated software.

Overwrite the parameters and software installed on the ECU when:

- performing the initial programming of a spare part ECU, or
- when attempting to recover an incorrectly parameterized ECU.

If upgrading an ECU to newer hardware when the current ECU is functional, do the following:

- 1. Read the current ECU parameters and upload them to the server in the 'Program Device' window.
- 2. Install the new ECU hardware.
- 3. Overwrite the new ECU using 'Program Device.'

This will transfer the parameters from the old ECU to the new ECU.

Programming Chassis ECUs in DiagnosticLink

- 1. Park the vehicle on a level surface, shut down the engine, and apply the parking brakes. Chock the tires.
- 2. Connect the vehicle to DiagnosticLink. Make sure that DiagnosticLink is updated to the latest version (8.13 at the time of publication) or newer. To update DiagnosticLink, select 'Tools' from the top menu and then select 'Update' from the dropdown menu. See Fig. 1.

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	File Edit Yiew Log Parameters Act Identification Image: Codes Image: Codes	ions Jools Help Update Qptions View Station Log clear Application Status Log	

Fig. 1, Updating DiagnosticLink to the Latest Version

- 2.1 When programming, we recommend configuring DiagnosticLink to connect only to 'Default' ECUs. To make this change in DiagnosticLink:
 - Select 'Tools' from the top menu, and then select 'Options' from the drop down menu.

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• Find and select the 'Connection' tab. See Fig. 2.

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• Select the 'Select Defaults' button on the right side of the window, then select 'Apply.'

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	🗹 🎲 UDS-1	Motor Control Module		MCM/MCM02T/MCM21T/M	R201T				
	🗹 🖓 UDS-3	Transmission Control Me	odule	TCM01T/TCM03T			Select All		
	🗹 🤬 UDS-11	Braking System		ABS02T/EBS01T					
	🗹 🎲 UDS-17	Integrated Predictive Por	wertrain Control	IPPC01T			Select None		
	🗹 🕼 UDS-19	Steering Angle Sensor		SAS01T					
	🗹 🎲 UDS-23	Instrument Cluster		ICC501T/ICU35_M2/ICU35_P3	/ICU4ME/ICUC01T				
	🗹 🎲 UDS-25	HVAC Front		HVAC_F01T					
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	🗹 🎲 UDS-37	Central Gateway		CGW_P3/CGW02T/CGW03T/	GW04T		5		
	🗌 🍓 UDS-40	Instrument Cluster Scree	n	ICS01T					
	🗹 🎲 UDS-42	Radar Frontend		RDF01T/RDF02T					
	🗹 🎲 UDS-47	Chassis Level Control Sy	stem	CLCS01T		~			
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21									f12

Fig. 2, Configuring DiagnosticLink to Connect to Default ECUs

3. Address any pre-existing conditions or fault codes.

NOTE: In DiagnosticLink an ECU is called a 'device.'

4. Select 'Program Device' from the upper left-hand side of the window. See Fig. 3.

	*	
	Identification	
	Fault Codes	
	V Troubleshooting	
	Instrumentation	
	Service Routines	
	I/O Control	
	Parameters	
	Program Device	
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Fig. 3, Selecting Program Device (ECU)



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- 5. Remove any 'Request Pending' **downloads and serial numbers** in the main window by selecting the 'Request Pending' list item(s) and then selecting the 'Remove' button on the right-hand side of the window. Do not select 'Remove All;' selecting 'Remove All' deletes all data pending **upload**. See **Fig. 4**.

nit Data Software Datasets Diagnosis Descriptions			
Init	Status (powertrain)	Status (chassis)	Add
Request Pending			
🚔 3AUUN 120 VO2011 0000	Request Pending	Request Pending	<u>Remove</u>
SILISUNDYEMMENNENNEN (ATERETERE)	Request Pending	Request Pending	Remove All
			Refresh
			Refresh All
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Fig. 4, Removing Pending Requests

6. Turn the ignition ON and allow time for all the default vehicle ECUs to connect. (Default vehicle ECUs are listed on the bottom left-hand side of the window under 'Connections' in Fig. 5.)

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2 Identification	Parameters (2) 2019 Frei	ghtliner New Cascadia 1: Engine Scoroc	26 Sleeper Cab 6 x : DDEC16-DD15 hission: DT12-DT12	4 Truck-Tractor					Diag	nosticlin
Fault Codes	Idle and PTO Shutdown Initialize CTP All Parameters Compare Parameters	Instrument Cluster Devi Compare Server Data	ce Variants Migr Cruise Control	ation Plausibility DPF History	Optimized Idle Engine Protection	Progressive Sl Fan F	hift PTO Spee leet Management	d Limiter Transfer Ad Global Variant Codin	cumulators Tr g Group Cod	iransmission ding Strings
V Troubleshooting	Parameter B CPC302T - Common Powertrain	Part Controller 3	Value	Units	Minimum	Maximum	Default	Access	Description	^
2 Instrumentation	MCM21T - Motor Control Mode TCM01T - Transmission Control	ule 2.1 Module MY2013								
Service Routines	ABS02T - Antilock Braking Syst	tem e Powertrain Control								
1/O Control	016_cdi_p_LogConf 032_recon_p_Hrzn 032_recon_p_Hrzn	2								
Parameters	OSS_core_p_Calconf OSS_core_p_IppcConf OSS_core_p_MapConf OSS_core_p_MapConf	4								
Connections	040_core_p_SvConf	1								
CPC302T: Online Motor Control Module 2.1	H 042_core_p_DeConf H 043_core_p_PmhConf									
MCM21T: Online					3					
Antilock Braking System ABS02T: Online	 	onf								
Integrated Predictive Powe IPPC01T: Reading (91.5%)	065_core_p_PsSitConf 066_core_p_PsSitEcoRollConf									
SAS01T: Online	Reading parameters	.¢								
😁 J1708 0% 💮 J1939 45%					I			Send	O Infor	rmation
02/04/2021										f12083
1. 'Connections' Li	st			3. 'Rea	ding para	meters'	Progress	Bar		

Fig. 5, Connecting Default ECUs and Reading Vehicle Parameters on DiagnosticLink

7. If programming functional chassis ECUs, select 'Parameters' on the upper left-hand part of the window and then continue with the following substeps.

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If performing the initial programming of a spare part ECU or attempting to recover an incorrectly parameterized ECU, continue with step 8.

- 7.1 DiagnosticLink will read the parameters of the vehicle's connected ECUs. Wait until the 'Reading parameters . . . ' bar indicates this process is complete. See **Fig. 5**.
- 7.2 Select 'Program Device' on the upper left-hand part of the window. There should be data to upload; this data is the parameters of the vehicle's ECUs that have just been read. Select the 'Connect to Server' button to upload the vehicle's ECUs parameters to the server. See Fig. 6.



Fig. 6, Uploading Parameters of Vehicle ECUs to the Server

7.3 Use your DTNAConnect information to connect to the server. Your sign-in to the server will remain active until DiagnosticLink is closed. See Fig. 7.



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Authentication
Please enter your user name and password.
<u>U</u> ser Name
Remember my user name
Password
Logon Help
You have 60 days remaining before a server login is required to keep the tool active.
OK Cancel
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Fig. 7, Login Window

7.4 Select 'Add' to add a download request for the vehicle by entering the vehicle identification number (VIN). See Fig. 8.

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Eile Edit View Log Parameters Actions Iv Full Screen Jools Find 10.0 Program Device 2018 Freightliner New Case cadia 126 Sleeper Cab 6 x 2 Truck Tr Transmission: D112-D112 DA Engine: DDEC16-DD15 DiagnosticLink S Iden Data > Gather Data Unit Data ware Datasets Diagnosis Descriptions Fault Codes Deit Status (powertrain) Status (chassis) ≜dd... P Troubleshooting Bemove 24 Instru Remove All Refresh Service Rout Refresh All 1/0 Control Parameters Program Device CPC302T ule 2.1 Connect to Server 0 Back Next Log time: 1/30/2020 9:14:33 AM 01/15/2021 f120841

Fig. 8, Adding the VIN to Download Updated Server Data

7.5 Make sure the correct VIN and hardware information is populated in the window, then select 'OK.' See Fig. 9.

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ver	nicle Identification		_
Env	nine Serial Number	(Init Number)	
0		(one realized)	
)e	vice controllers for	this equipment	
÷	Add 💢 Remove		
	Device	Hardware Part Number	^
•	CPC302T	+ A0044462502-002	
	MCM21T	 A0014465835-002 	
	TCM01T	- A0504463609-002	
	IPPC01T	- A0004460675-001	
	ICUC01T	 06-93681-101 	
	HVAC_F01T	 06-94732-000 	18
	SSAM02T	 A06-94904-001 	
	CGW04T	 06-93361-002 	1
	ACM21T	+ A0004465954-002	
_			

Fig. 9, Verify VIN and Hardware Information

7.6 There should be a request pending status for the VIN. Select 'Connect to Server' as shown in Fig. 10, to download the updated software and parameters for the vehicles ECUs.

The server will provide any new software that may be available for this vehicle's default ECUs as well as parameter sets based on the parameters that were just uploaded.

When the process is completed, go to step 9.

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Elle Edit Yew Log Parameters Actions Tools Full Screen ⊙ • ⊙ · ⇒ Q ∩ ♥ ► ■ H H -=-※ N 5 F · 四部合 · 回面の 9 · 5 単風物 Find Program Device 👔 2018 Freightliner New Ca adia 126 Sleeper Cab 6 x 2 Truc Transmission: DT12-DT12 DA Engine: DDEC16-DD15 DiagnosticLink Gentil Fault Codes Status (powertrain) Status (chassic) Add... 🗘 Troubleshooting . Remove Request Pending Request Pending 1 Instr Remove All Refresh Service Routine Refresh All VO Control Parameters Rogram Device ule 2.1 Çer Back Next Logt 01/15/2021 f120843

Fig. 10, Downloading Updated Vehicle ECU Software and Parameters

- 8. If performing the initial programming of a spare part ECU or attempting to recover an incorrectly parameterized ECU, select 'Program Device' on the upper left-hand part of the window.
 - 8.1 Use your DTNAConnect information to connect to the server; see **Fig. 7.** Your sign-in to the server will remain active until DiagnosticLink is closed.
 - 8.2 Select 'Add' to add a download request for the vehicle by entering the vehicle VIN. See Fig. 8.
 - 8.3 Make sure the correct VIN and hardware information is populated in the window, then select 'OK.' See Fig. 9.
 - 8.4 There should be a request pending status for the VIN. Select 'Connect to Server' to download the software and parameters for the vehicle's ECU(s) that need to be overwritten. See Fig. 10.

The server will provide any new software that may be available for this vehicle's default ECUs.

9. Once the data has been downloaded, select 'Next.' See Fig. 11.



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ters Actions Iools Help Edit View Log Para Full Screer HH5F-222-502974283 Q-Q-⇒QQQ ≥ ► ■ H 4 -=-Find 10. 1 Program Device 2018 Freightliner New Cascadia 126 Steeper Cab 6 x 2 Truck Track WR WR Transmission D12-D112 DA Espire - ODEC16-D015 DiagnosticLink Identification Unit Data Soft are Datasets Diagnosis Des Fault Codes Status (po êdd... OK Ø 3/** V Troubleshooting Bemove OK Remove All Refresh Service Routine Refresh All VO Control Parameters Program Device ommon Powerts PC302T: Online Control M dule 2.1 trol Modu Net nt Clu 01/15/2021 f120844

Fig. 11, Selecting Next

NOTE: 'Latest' is the last service record (may be older software) and 'Newest' is the most up to date software available for the installed hardware. If the last service record is the most up to date software available, no 'Newest' record will be provided.

10. Select the device (ECU) to program, select the VIN, and select either 'Latest' or 'Newest.' Then select 'Next.' See Fig. 12.

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O • O • ⊕ O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		12			Find	9, -(0
Service Routines	Program Device	2019 Freightliner New Cascadia 126 Sleeper VIN: 2019 Freightliner New Cascadia 126 Sleeper Espine: DDEC16-L ESN: Contemporter State	Cab 6 x 4 Truck-Tractor 2015 2-DT12 DA		D	iagnosticlink
12 ·····	Gather Data > Select Operation >	Program Device				
I/O Control	Select the device to program					
Parameters	Name IPPC01T	Description Integrated Predictive Powertrain	n Control			^
🎨 Program Device	ICC501T HVAC_F01T	Instrument Cluster 5 HVAC Front				
	SSAM02T	Single SAM				
	CGW041	Central Gateway				
	RDF021 Select the reprogramming operation	Radar Frontend 2				*
×	Replace Device Settings with S O Update Device Software C change Dataset	erver Configuration	2			
Connections	Select the unit and settings data to	apply to the device				
Common Powertrain Contr CPC302T: Online Motor Control Module 2.1 MCM21T: Online	Unit Lint H PROVERTISHS (ATOSt	Status 0526 426-27 3				
TCM011: Online Antilock Braking System	Sottings Status		Timestamo	Comment		
ABS021: Online Integrated Predictive Powe IPPC01T: Online	Factory Factory setting: Latest OK	s cannot be programmed after software has bee	en up			
SASO1T: Online	Vewest OK					
💮 J1708 0% 🛛 💮 J1939 40%						Next
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1. Device to Progr	ram	 Vehicle Identifica (VIN) 	tion Number	3. Settings		

Fig. 12, Selecting the Device (ECU) to Program With 'Latest' or 'Newest' Software

11. Verify the VIN and hardware part number again, then select 'Start' to program the selected device (ECU). See Fig. 13.



Fig. 13, Select Start to Program the Selected Device (ECU)

12. The updated software and parameters will be installed on the device (ECU) as shown in Fig. 14.

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File Edit View Log Parameters Actions Tools Help Full Screen -神科市下-田野市-田田町の下4日国智 8.0 Find Program Device 🥹 2019 Freightliner New Cascadia 126 Sleeper Cab 6 x 4 Truck-Tractor . DiagnosticLink 25 Instrumentation Gather Data > Select Operation > Program Device Service Routines Processing: SSAM02T - Single SAM SSAM02T - Single SAM Processing 1/O Control Flash Firmware: 7.3% Complete Parameters **Operation Information** Operation Replace Device Settings with Server Configuration (same device) Settings Newest Program Device Configuration Current Target D A0024487658-001 (18.35.0) A0034480058-001 (SSAM02T_main_190600) Softw Software Part Number - IOE1 Application A0024488158-001 A0024488158-001 (SSAM02T_IO_0_app_182000) A0034480158-001 (SSAM02T_IO_0_config_190600) A0024488258-001 (SSAM02T_IO_1_app_182000) Software Part Number - IOE2 Parameters @ A0024487858-001 A0034480258-001 (SSAM02T_IO_1_config_190600) A0024488358-001 (SSAM02T_IO_2_app_182000) Software Part Number - IOE3 Application A0024488358-001 A0034480358-001 (SSAM02T_IO_2_config_190600) Software Part Number - IOE3 Parameters D A0024487958-001 A0024488458-001 (SSAM02T IO 3 app 182000) Software Part Number - IOE4 Application A0024488458-001 Single SAM SSAM02T: Flash (7.3%) Software Part Number - IOE4 Parameters D A0024488058-001 A0034480458-001 (SSAM02T_IO_3_config_190600) Software Part Number - Marquardt A0014486058-001 A0014486058-001 (SSAM02T MQ 154100) Multi Purpose Camera MPC01T: Auto-connect failed Identification Current Target Vehicle Identification Number OANTHID PARCELET 3444111010100220115 Engine Serial Number Hardware ECU Serial Number FFFFFFFFFFFFFFFFFFFFF Hardware Part Number A06-94904-002 01/15/2021 f120848

Fig. 14, Programming the Device (ECU)

13. When programming is complete, the page will display the message: 'The device was successfully programmed' to indicate the ECU has been successfully updated. Select 'Finish.'

IMPORTANT: After programming is complete, the following banner message may appear in DiagnosticLink: 'The connected vehicle contains chassis devices with incompatible software versions, you will need to update these control devices using Program Device. Select here for more information.' If this banner message is shown, continue with the next sub-step. Otherwise, go to the next step.

13.1 Select the banner message. See Fig. 15.

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Program Device Program Device	cadia-Sleeper DD13 12-D112 OA ncompatible software versions. You will need to update these cor -SVC-MAN-0084, DDC-SVC-MAN-0191, DDC-SVC-MAN-0193, DC	ntrol devices using Program Device. Click here for more inform DC-SVC-MAN-0200, DDC-SVC-MAN-0184, DDC-SVC-MAN-014	nation.
Unit Data Software Datasets Diagnosis Descriptions		Status (nowertrain)	Status (chassis)
Request Pending			
SAK344EV/YOKSKE? (#7162E0K8642)		Request Pending	Request Pending
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Fig. 15, Selecting the Banner Message

13.2 Print or take a screen shot of the incompatible chassis devices (ECUs). See Fig. 16.

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The conne Program (VIN:	ected vehicle co Device.	entains chassis d	evices with incom	patible software versions. You will need to update these control devices using	^
Compatit Data Source	Device	on may not be Hardware	complete due to Software	the following issues:	ľ
Edex	CGW04T	06-93361-052	A20064486227- 081	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	DCMD02T	66-01125-000	A000A487132- 001	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	DCMP02T	66-01128-000	A0004480519- 001	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	SSAM02T	AD8-94904- 000	A0034486658-001	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	ICUC01T	06-82681-121	A2134482921- 063	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	HVAC_F01T	06-94752-000	A0004485728- 001	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
Edex	RDF02T	A2004462248	A0004484349- 001	The set of software returned from the server for programming does not appear in the compatibility table supplied from the server.	
					~

Fig. 16, Printing the List of Incompatible Chassis Devices (ECUs)

NOTE: In some cases, the compatible hardware part number may be different from the hardware currently installed on the vehicle. If this is the case, the hardware may need to be replaced.

- 13.3 Program all devices (ECUs) listed as incompatible from the previous step:
 - Select 'Program Device' on the upper left-hand part of the window.
 - Select the device (ECU) to program, select the VIN, and select either 'Latest' or 'Newest.' Then select 'Next.'
 - Verify the VIN and hardware part number then select 'Start' to program the selected device (ECU).
 - Repeat until all incompatible devices (ECUs) are programmed.

IMPORTANT: After a programming, some fault codes may become active and some ECUs may not auto-connect. Cycling the ignition may clear the faults and connect the ECUs.

- 14. Turn the ignition to the OFF position, unplug from the diagnostic port and close and restart DiagnosticLink. Wait one minute.
- 15. Cycle the ignition 3 times, waiting 30 seconds between key OFF and key ON.

NOTE: This action will enable Intelligent Predictive Powertrain Control (IPPC) to start communicating on Roll Call, and eliminate codes for the IPPC not communicating.



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- 16. Turn the key to the ON position for the fourth time and connect the vehicle to DiagnosticLink.
- 17. Click on the 'Actions' menu and scroll down and select 'Instrument Cluster Automatic Configuration.' See Fig. 17.



Fig. 17, 'Actions Menu,' 'Instrument Cluster Automatic Configuration' Selected

18. Verify that the menu selection at the bottom of the window is 'Auto-config ECU List' and select 'Start.' See Fig. 18.

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Instrument Cluster Automatic Configuration	
Choose one of the Instrument Cluster automatic configuration routines and press 'Start'. This will cause the Instrument Cluster to learn the ECU/device list and/or Global Variant Coding from other devices on the vehicle, and clear the "Auto Config routine not performed" fault, if present.	Auto configuration of ECU list has not been performed active
NOTE: If the "Incompatible ECU variant in the SMF" fault is active after executing the automatic configuration routine, this is an indication that a device is incorrect for the vehicle or that the Instrument Cluster SMF needs to be updated. See the "Instrument Cluster Device Variants" panel in the Parameters view for more information.	Incompatible/missing ECU variant in Warning Database
Time Label	1 2
Auto-config ECU List: Procedure can start	Auto-config ECU List × Start
2/09/2021	

Fig. 18, 'Instrument Cluster Automatic Configuration' Window

- 19. Once the configuration step is complete, turn the ignition to the OFF position, unplug from the diagnostic port, and close and restart DiagnosticLink. Wait one minute.
- 20. Turn the key to the ON position and connect the vehicle to DiagnosticLink.
- 21. Clear inactive faults and troubleshoot any active faults.
- 22. Turn the ignition to the OFF position, unplug from the diagnostic port, and close DiagnosticLink.

Warranty

This is an informational bulletin only. Warranty does not apply.