

August 2021
SF623AB

Subject: Cascadia ICUC Traffic Sign Display

Models Affected: Specific model year 2021 Freightliner Cascadia vehicles manufactured September 1, 2020, through October 19, 2020.

General Information

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF623AB to modify the vehicles mentioned above.

Certain vehicles equipped with a Detroit Assurance base package, and a DT12 transmission with intelligent powertrain management (IPM+), were not built with the Traffic Sign Display (TSD) option.

The parameters will be updated to add the TSD option.

There are approximately 6,000 vehicles involved.

Additional Repairs

Dealers must complete all outstanding Recall and Field Service campaigns prior to the sale or delivery of a vehicle. A Dealer will be liable for any progressive damage that results from its failure to complete campaigns before sale or delivery of a vehicle.

Owners may be liable for any progressive damage that results from failure to complete campaigns within a reasonable time after receiving notification.

Please contact Warranty Campaigns for consideration of additional charges prior to performing the repair.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR261).

Replacement Parts

There are no replacement parts.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF623, a list of the customers and vehicle identification numbers will be available on DTNAConnect.

Removed Parts

U.S. and Canadian Dealers, please follow Warranty Failed Parts Tracking shipping instructions for the disposition of all removed parts. Export distributors, please destroy removed parts unless otherwise advised.

Labor Allowance

Table 1 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF623A	PARAMETER UPDATE, TRAFFIC SIGN RECOGNITION, DASH DISPLAY	0.4	996-F028A	12-Repair Recall/Campaign

Table 1 continued on pg 2

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Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
SF623B	PARAMETER UPDATE, TRAFFIC SIGN RECOGNITION, DASH DISPLAY	0.3	996-F028B	12-Repair Recall/Campaign

Table 1 continued from pg 1

IMPORTANT: When the campaign has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the gray completion sticker provided in the field service kit (Form WAR261). If the vehicle does not have a base completion label, clean a spot on the appropriate location of the vehicle and first attach the base completion label (Form WAR259). If a field service kit is not required or there is no completion sticker in the kit, write the campaign number on a blank sticker and attach it to the base completion label.

Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting your claim through the Warranty system within 30 days of completing this campaign. Please reference the following information in OWL:

- Claim type is **Field Service Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**SF623-A or SF623-B**).
- In the Primary Failed Part field, enter **25-SF623-000**.
- In the Labor section, enter the appropriate SRT from the Labor Allowance Table. Administrative time will be included automatically as SRT 939-6010A for 0.3 hours for all vehicles.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on September 30, 2022**. Dealers will be notified of any changes to the termination date via Important Campaign Information Letter posted on DTNAConnect.com.

IMPORTANT: OWL must be viewed prior to beginning work to ensure the vehicle is involved and the campaign has not previously been completed. Also, check for a completion sticker before beginning work.

All claims must be submitted within 30 days of the repair and within 30 days of the termination date of the campaign. U.S. and Canadian Dealers: All excess inventory to be returned to the PDC following the conclusion of the campaign must be returned in resaleable condition to the Memphis PDC within 90 days from the termination date. Please submit a PAR to request return to the Memphis PDC. (Canadian dealers should return the kits to their facing PDC.) Export Distributors: Excess inventory is not returnable.

For questions, U.S. and Canadian dealers, contact the Warranty Campaigns Department via Web inquiry at DTNAConnect.com/WSC, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information. Export distributors submit a Web inquiry or contact your International Service Manager.

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Copy of Notice to Owners

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Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, is initiating Field Service Campaign SF623AB to modify specific model year 2021 Freightliner Cascadia vehicles manufactured September 1, 2020, through October 19, 2020.

Certain vehicles equipped with a Detroit Assurance base package, and a DT12 transmission with intelligent powertrain management (IPM+), were not built with the Traffic Sign Display (TSD) option.

The parameters will be updated to add the TSD option.

Please contact an authorized Daimler Trucks North America dealer to arrange to have the campaign performed and to ensure that parts are available at the dealership. To locate an authorized dealer, go to Daimler-TrucksNorthAmerica.com/Contact-Us/. Scroll down to "Locate a Dealer," and select the appropriate brand. The campaign will take approximately one hour and will be performed at no charge to you.

This Field Service Campaign will **terminate on September 30, 2022**. Please make sure the campaign is completed prior to this date. Work completed after this date will be done at the customer's expense.

As stated in the terms of your express limited warranty, Daimler Trucks North America LLC will not pay for any damage caused by failure to properly maintain your vehicle. Daimler Trucks North America LLC considers the work necessary under this campaign to be proper maintenance and will, therefore, not pay for any damage to your vehicle caused by your failure to have the repairs that are the subject of this campaign performed in a reasonable time.

Contact the Warranty Campaigns Department at (800) 547-0712, from 7 a.m. to 4 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.com, or the Customer Assistance Center at (800) 385-4357, if you have any questions or need additional information.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Work Instructions

Subject: Cascadia ICUC Traffic Sign Display

Models Affected: Specific model year 2021 Freightliner Cascadia vehicles manufactured September 1, 2020, through October 19, 2020.

Central Gateway (CGW) Parameter Change (SF623A & SF623B)

1. Check the base label (Form WAR259) for a completion sticker for SF623 (Form WAR261) indicating this work has been done. The base label is usually located on the passenger door about 12 inches (30 cm) below the door latch. If a sticker is present, no work is needed. If there is no sticker, proceed with the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.

IMPORTANT: Make sure that DiagnosticLink® is updated to the latest version (8.14 at the time of publication, or newer) before programming the vehicle.

3. Connect the vehicle to DiagnosticLink. Ensure that the central gateway (CGW) ECU is connected and on-line in the 'Connections' window. See [Fig. 1](#).

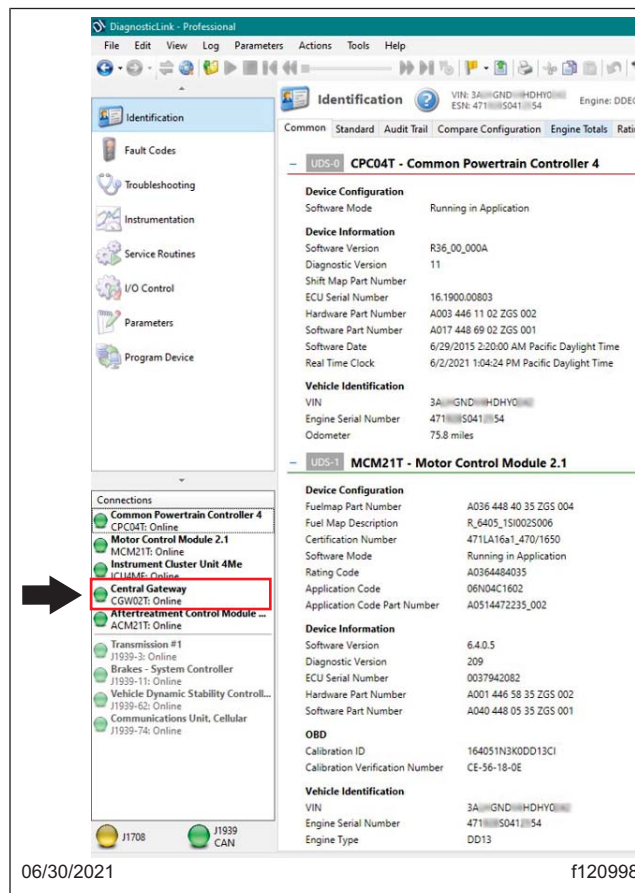


Fig. 1, CGW Connected and Online

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4. Open the 'Parameters' tab, and ensure that all the parameters are successfully read by DiagnosticLink. This will be indicated in the status bar at the bottom of the window. See Fig. 2.

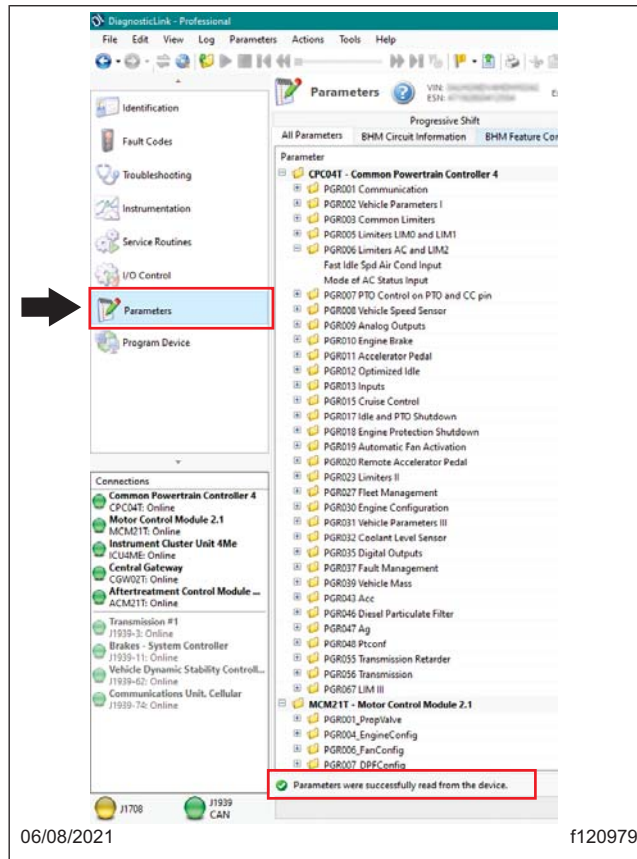


Fig. 2, Parameters Tab

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- Go to 'Program Device,' and select 'Connect to Server' to upload the vehicle parameters to the server. See Fig. 3.

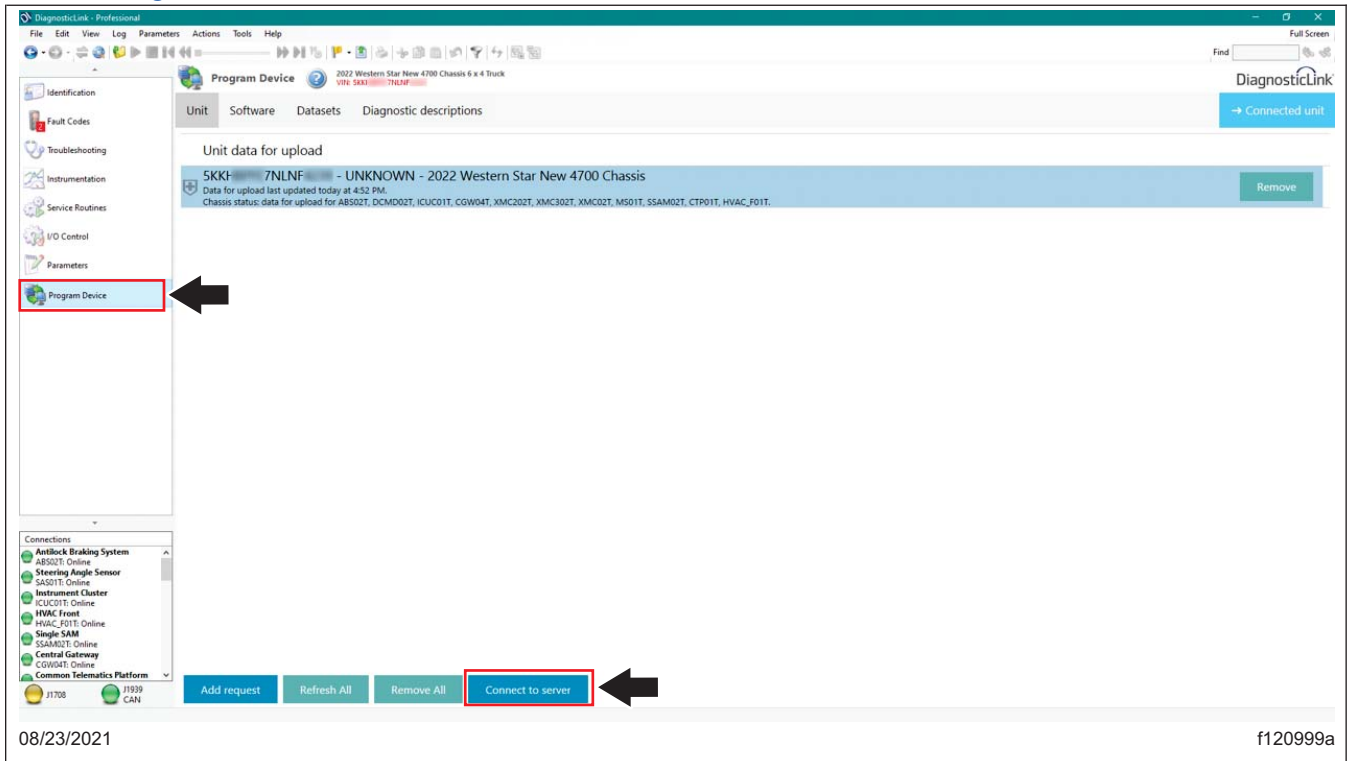


Fig. 3, Uploading Vehicle Parameters to Server

- After the upload is complete, select 'Add.' Make sure the correct vehicle identification number (VIN) is populated in the window that appears. Select 'OK,' and then select 'Connect to Server.'

NOTE: In some vehicles, the CGW parameter 'GVC Traffic Sign Recognition Function' may have already been updated to 'A0224471327-001 GVC TrafficSignRecognition:TSR.'

- After the server download is complete, go to the 'Parameters' tab, 'CGW04T - Central Gateway,' 'GVC Data,' 'GVC Traffic Sign Recognition Function,' then select 'A0224471327-001 GVC TrafficSignRecognition:TSR' from the drop-down list in the 'Value' column. See Fig. 4 and Fig. 5.

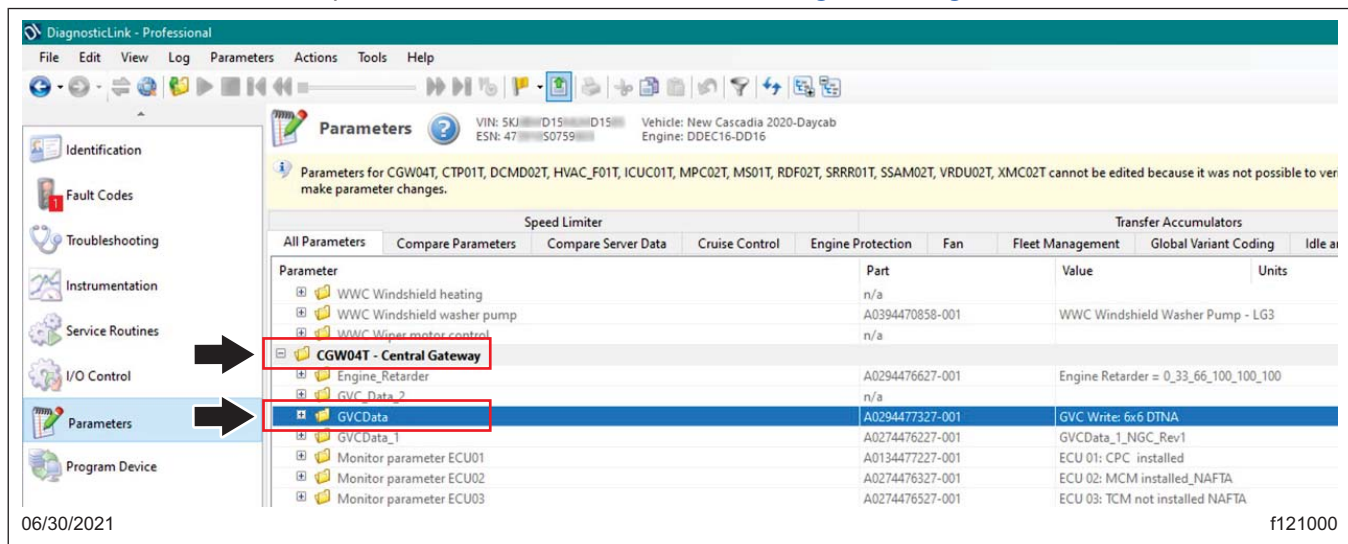


Fig. 4, GVC Data Folder Location

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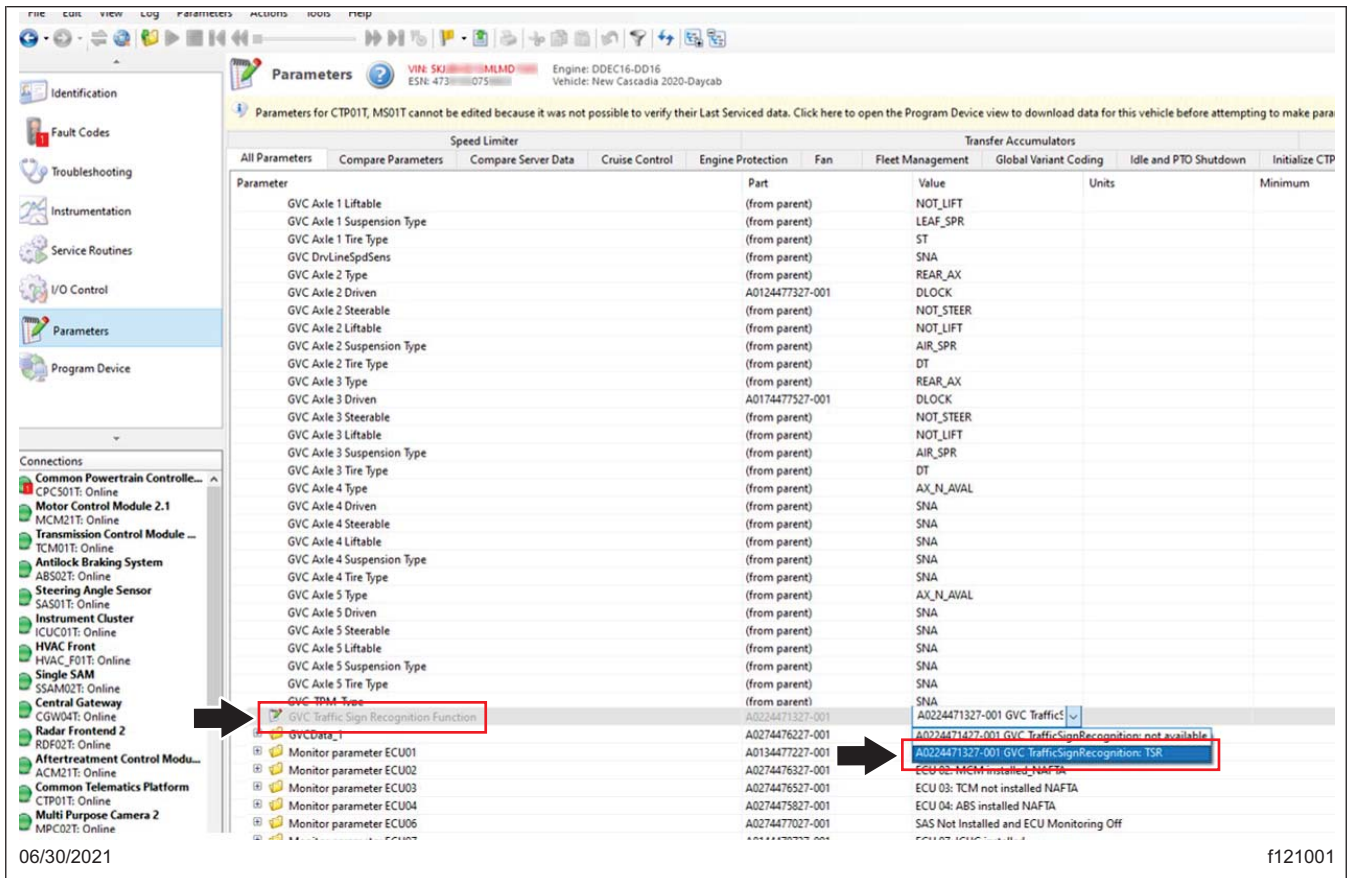


Fig. 5, GVC Traffic Sign Recognition Function Parameter Screen


8. Select 'Send' to write the parameter changes to the CGW04T ECU in the vehicle.
9. Once the parameter changes are complete, go to the 'Program Device' tab and verify there is a pending upload.
 - If there is a pending upload, select 'Connect to Server' to upload the parameter updates to the server.
 - If there is no pending upload, go to the 'Parameters' tab, select 'Refresh,' and verify the parameter 'GVC Traffic Sign Recognition Function' is set to 'A0224471327-001 GVC TrafficSignRecognition: TSR,' Go to 'Program Device,' there should now be a pending upload. Select 'Connect to Server' to upload the parameter updates to the server.

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ICUC Parameter Update (SF623A)

NOTE: In some vehicles, the ICUC parameter 'ParmTSRMenu' may have already been updated to 'A0444471621-001 TSR Menu Available.'

- After the server download is complete, ensure that ICUC is connected and online in the 'Connections' window, then go to the 'Parameters' tab, 'PID 0x45 (FTL config),' 'ParmTSRMenu,' then select 'A0444471621-001 TSR Menu Available' from the drop-down list in the 'Value' column. See [Fig. 6](#) and [Fig. 7](#).

Speed Limiter		Transfer Accumulators						
All Parameters	Compare Parameters	Compare Server Data	Cruise Control	Engine Protection	Fan	Fleet Management	Global Variant Coding	Idle and PTO Shutdown
Parameter			Part	Value	Units			
paramAppAirPressure			A0414473021-001	available				
paramAcousticFeedback			(from parent)	not available				
paramGaugePos1			A0414476421-001	1				
paramGaugePos2			A0414473421-001	3				
paramGaugePos3			A0414475921-001	6				
paramGaugePos4			A044473921-001	7				
paramGaugePos5			(from parent)	0				
paramGaugePos6			(from parent)	0				
paramGaugePos7			(from parent)	0				
paramGaugePos8			(from parent)	0				
paramGaugePos9			(from parent)	0				
paramGaugePos10			(from parent)	0				
paramGaugePos11			(from parent)	0				
paramGaugePos12			(from parent)	0				
paramAllisonDriveMode			(from parent)	0				
paramTurboBoostPressureHMI			(from parent)	not available				
paramOptimizedIdle			A0414474921-001	available				
paramSRS			(from parent)	not available				
paramACCDistanceMode			(from parent)	Distance				
 PID 0x45 (FTL config)			A0444470821-001	Default PID 0x4503 (DTNA) LG2				
paramGaugeListPos1			(from parent)	1				
paramGaugeListPos2			(from parent)	0				
paramGaugeListPos3			(from parent)	0				
paramGaugeListPos4			A0414475621-001	4				
paramGaugeListPos5			(from parent)	0				
paramGaugeListPos6			(from parent)	0				
paramGaugeListPos7			(from parent)	0				
paramGaugeListPos8			(from parent)	0				

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Fig. 6, PID 0x45 (FTL config) Folder Location

Speed Limiter		Transfer Accumulators								
All Parameters	Compare Parameters	Compare Server Data	Cruise Control	Engine Protection	Fan	Fleet Management	Global Variant Coding	Idle and PTO Shutdown	Initialize CTP	Instrument Cluster C
Parameter			Part	Value	Units				Minimum	Maxin
paramWabcoACC			(from parent)	not available						
paramSuspAirPressure			A0444470621-001	available						
paramOdometerFormat			(from parent)	comma						
paramCruiseHystMenu			A0444470321-001	available						
paramIPMHystMenu			(from parent)	not available						
paramPasSmart			(from parent)	not available						
paramPNMLLevelBuzzer			(from parent)	not available						
paramPNMLLevelMenuBuzzer			(from parent)	not applied						
paramDST			(from parent)	Disabled						
paramTimeZoneConfig			(from parent)	Mode0						
paramDiagVar2F			(from parent)	0						
paramDiagVar33			A0444473021-001	160						
paramCCBackup			(from parent)	available						
paramPCCDisplay			(from parent)	not available						
paramBSMMenu			A0444471221-001	available						
paramALAMenu			(from parent)	not available						
paramTSRMenu			A0444471621-001	A0444471621-001 TSR Menu A						
paramXieOilTempCRA			(from parent)	A0444471621-001 TSR Menu Available						
paramAuxTransOilTemp			(from parent)	A0444471621-001 TSR Menu Not Available						
paramABAMenu			(from parent)	not available						
paramDiagVar9E			(from parent)	0						
paramABAStartup			A0444474621-001	available						
paramOilPressureInput			(from parent)	EngOilPress_Cval_MCM						
paramMenuRideHeight			(from parent)	not available						
paramMenuLoadShift			(from parent)	not available						
paramMenuActTrailerGap			(from parent)	not available						
PID 0x5100 (Alignment of dimming curves)			n/a							

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Fig. 7, ParmTSRMenu Parameter

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2. Select 'Send' to write the parameter changes to the ICUC ECU in the vehicle.
3. Once the parameter write is complete, go to the 'Program Device' tab and verify there is a pending upload.
 - If there is a pending upload, select 'Connect to Server' to upload the parameter updates to the server.
 - If there is no pending upload, go to the 'Parameters' tab, select 'Refresh', and verify the parameter 'ParmTSRMenu' is set to 'A0444471621-001 TSR Menu Available.' Go to 'Program Device;' there should now be a pending upload. Select 'Connect to Server' to upload the parameter updates to the server.

Instrument Cluster Automatic Configuration (SF623A & SF623B)

1. Once the parameter updates are uploaded to the server, the instrument cluster must be configured. Select 'Actions' tab, select 'Instrument Cluster Automatic Configuration,' 'Instrument Cluster Automatic Configuration' window will then open. Select 'Start' to start the configuration.
2. While the configuration is in progress, the 'Instrument Cluster Automatic Configuration' procedure window will display steps 1 through 10. Completion of step 10 indicates the configuration is successfully completed. Close the 'Instrument Cluster Automatic Configuration' window by selecting the 'X' at the upper-right corner. See Fig. 8.

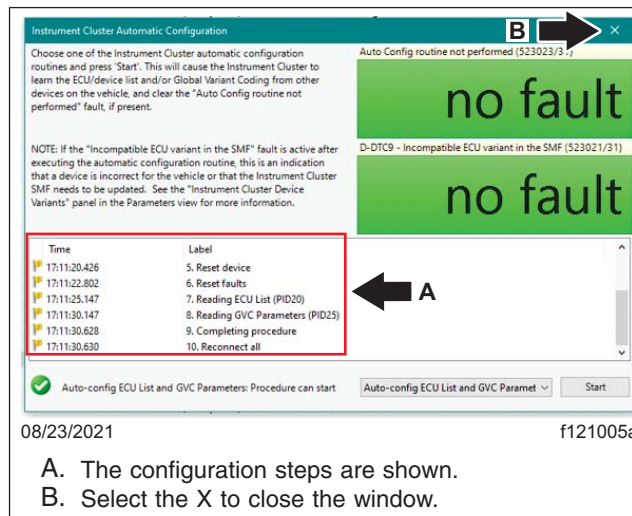


Fig. 8, Completion of Instrument Cluster Automatic Configuration

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3. Confirm that the driver display now has access to 'Traffic Sign Assist' as follows.
 - For **ICUC Dash Display**, using the steering wheel switches and on-screen prompts, navigate to 'Settings,' 'Safety Systems,' and 'Traffic Sign Display' to verify the 'Traffic Sign Display' feature is available, and can be turned ON or OFF. See [Fig. 9](#).

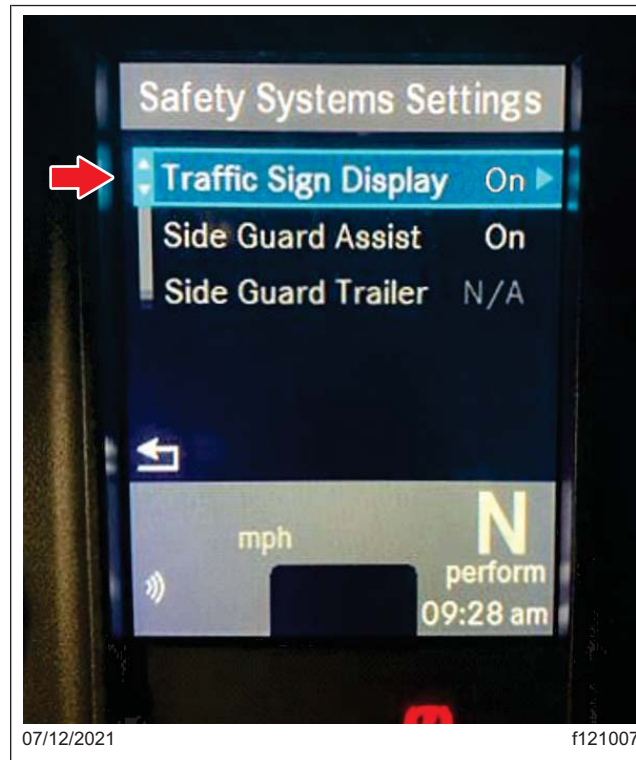


Fig. 9, Safety Systems Screen in ICUC Dash Display

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NOTE: When a vehicle is being driven with the 'Traffic Sign Assist' feature turned ON, and when a designated traffic sign is recognized by the system, an image representing it appears in the ICUC panel as shown in **Fig. 10**.



Fig. 10, Traffic Sign Display - ICUC

- For **ICC5 Flat Screen Display**, using the right-hand side (10-inch) touch screen display panel, go to 'Home,' 'Operation/Settings,' 'Assistance Systems,' and verify the 'Traffic Sign Assist' feature is available, and can be turned ON or OFF. See **Fig. 11**.

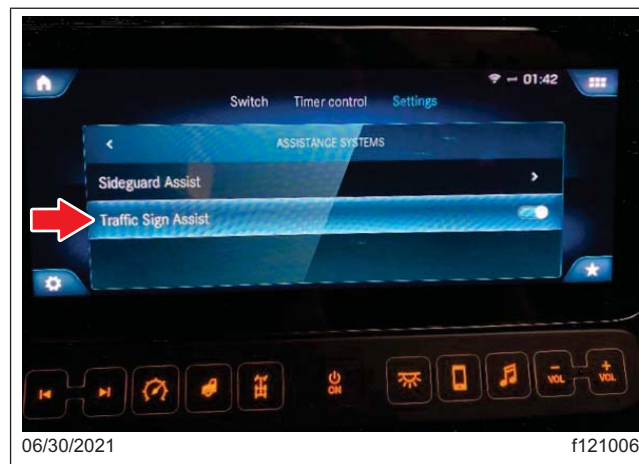


Fig. 11, Assistance Systems Screen in ICC5 Flat Screen Display

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NOTE: When a vehicle is being driven with the 'Traffic Sign Assist' feature turned ON, and when a designated traffic sign is recognized by the system, an image representing it appears in the ICC5 flat screen display as shown in [Fig. 12](#).

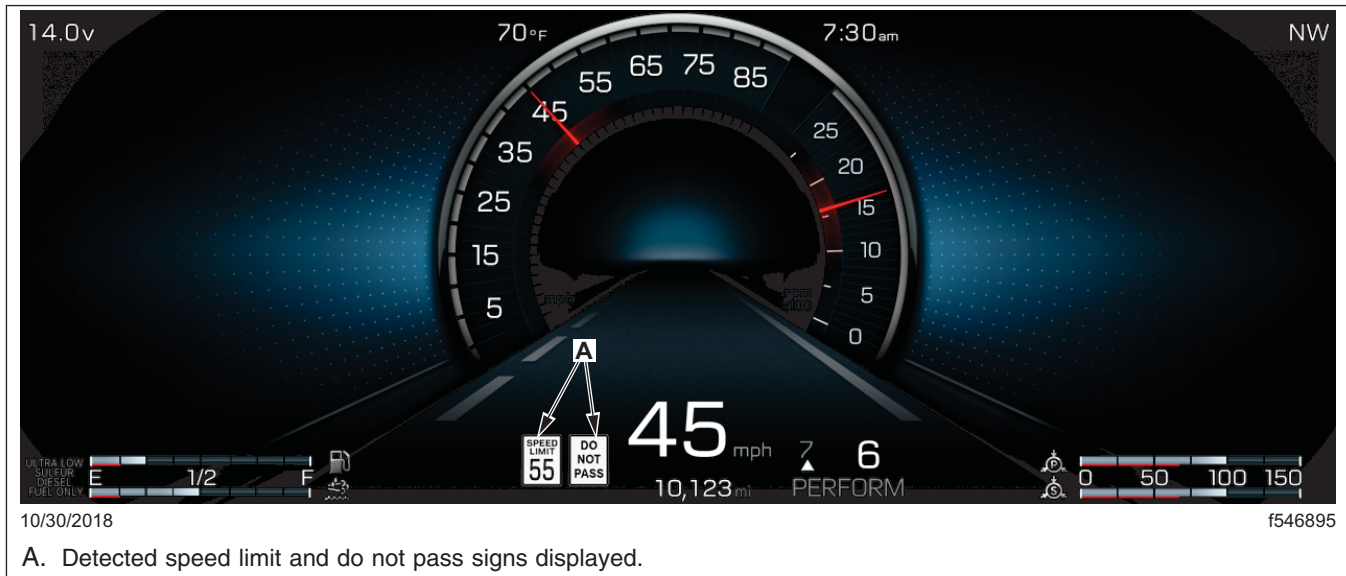


Fig. 12, Traffic Sign Display - ICC5

4. Disconnect the vehicle from DiagnosticLink.
5. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for SF623 (Form WAR261) indicating this work has been completed.