

May 2022
SF652A

Subject: Western Star 49X VRDU Programming

Models Affected: Specific model years 2021-2022 Western Star 49X models manufactured February 10, 2020, through March 17, 2021.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF652 to modify the vehicles mentioned above.

On certain vehicles equipped with Side Guard Assist (SGA), the Video Radar Device Unit (VRDU) contains parameters that have proven to be too sensitive for vocational customers.

The VRDU parameters will be updated such that the SGA on stationary objects is disabled. This applies only to SGA and does not affect collision mitigation braking functionality.

There are approximately 83 vehicles involved in this campaign.

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 for this repair.

If our records show your dealership has ordered any vehicle(s) involved in campaign number SF652, 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
SF652A	Update VRDU parameters	0.3	996-F129A	12-Repair Recall/Campaign

Table 1

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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 (SF652-A).
- In the Primary Failed Part field, enter **25-SF652-000**.
- There are no replacement parts for this repair.
- 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.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- This Field Service Campaign will **terminate on May 31, 2023**. Dealers will be notified of any changes to the termination date via Important Campaign Information Letter posted on DTNACConnect.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 DTNACConnect.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

Subject: Western Star 49X VRDU Programming

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF652A to modify specific model years 2021-2022 Western Star 49X models manufactured February 10, 2020, through March 17, 2021.

On certain vehicles equipped with Side Guard Assist (SGA), the Video Radar Device Unit (VRDU) contains parameters that have proven to be too sensitive for vocational customers.

The VRDU parameters will be updated such that the SGA on stationary objects is disabled. This applies only to SGA and does not affect collision mitigation braking functionality.

Please contact an authorized DTNA dealer to arrange to have the campaign performed. The campaign will take approximately one hour and will be performed at no charge to you. To locate an authorized dealer, search online at NorthAmerica.DaimlerTruck.com/contact-us/. Scroll down to "Locate a Dealer," and select the appropriate brand.

This Field Service Campaign will **terminate on May 31, 2023**. 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, DTNA will not pay for any damage caused by failure to properly maintain your vehicle. DTNA 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@Daimlertruck.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: Western Star 49X VRDU Programming

Models Affected: Specific model years 2021-2022 Western Star 49X models manufactured February 10, 2020, through March 17, 2021.

Video Radar Decision Unit (VRDU) Parameter Update

1. Check the base label (Form WAR259) for a completion sticker for SF652 (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 (8.15SP1 at the time of publication, or newer) before programming the vehicle.
3. Open DiagnosticLink prior to connecting to the vehicle.
4. Connect the vehicle to DiagnosticLink. Ensure the VRDU02T ECU rollcalls, and is visible in the 'Connections' window. See [Fig. 1](#).

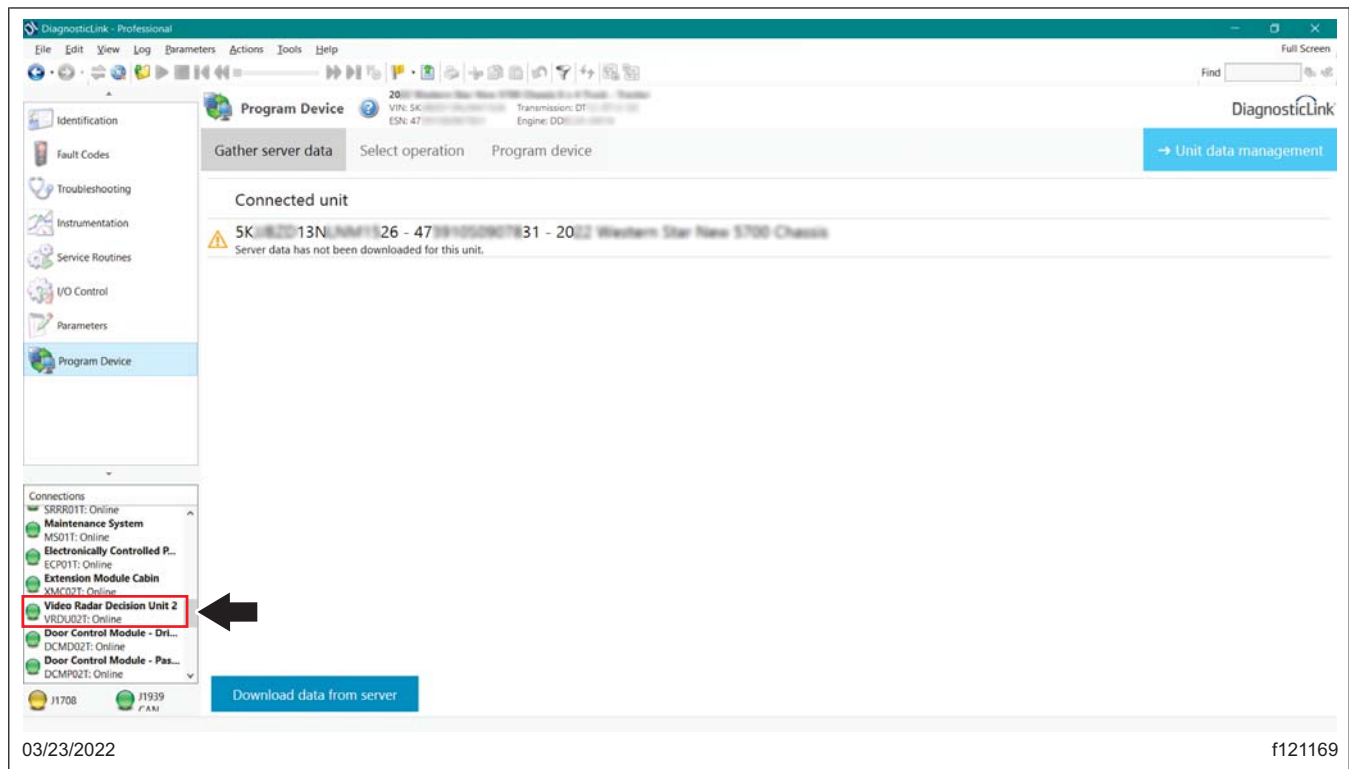


Fig. 1, VRDU02T Connected

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- Go to 'Program Device,' and make sure that the vehicle identification number (VIN) that appears is correct. Then select 'Download data from server.' See [Fig. 2](#).

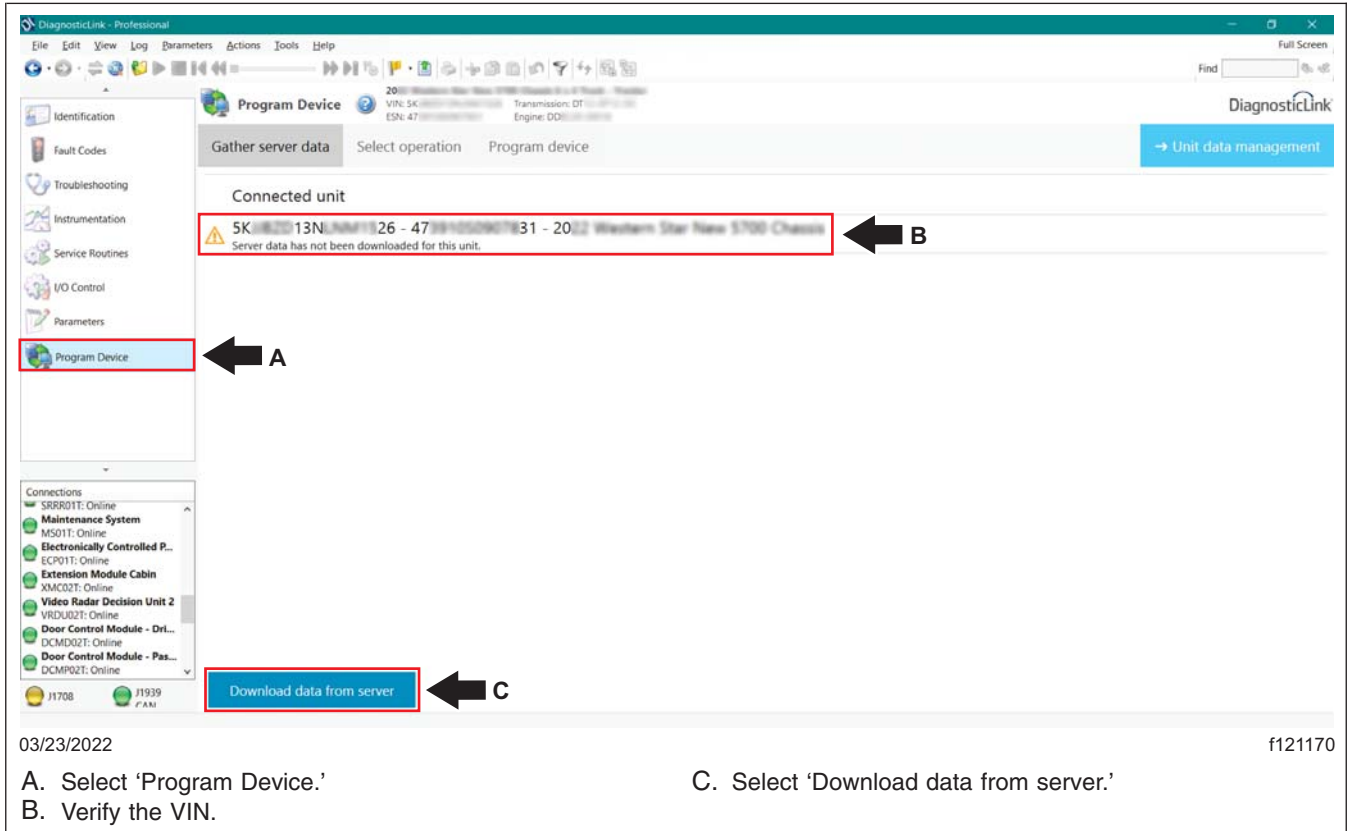


Fig. 2, Downloading Data from the Server

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- After the server data download is complete, go to the 'Parameters' tab. In the 'All Parameters' tab, go to the 'VRDU02T – Video Radar Decision Unit 2' folder, then select the 'Function BSA' folder. Set the 'Time to Collision Threshold' parameter value to 'A0034479551-001 Set BSA TTC to 0s.' See [Fig. 3](#).

The screenshot shows a software interface for configuring vehicle parameters. The 'All Parameters' tab is active, and the tree view on the left is expanded to 'VRDU02T - Video Radar Decision Unit 2' (labeled A), then to 'Function BSA' (labeled B). The 'Time to Collision Threshold' parameter (labeled C) is selected, and its value is set to 'A0034479551-001 Set BSA TTC to 0s.' (labeled D). The main table displays various parameters with columns for Part, Value, Units, Minimum, Maximum, and Description.

Parameter	Part	Value	Units	Minimum	Maximum	Description
VRDU02T - Video Radar Decision Unit 2						
Brake suppression	A0004476151-001	Full Braking				
ECU Parameter	A0034473351-001	Defaultstring ECU Parameter since R1803				
Function ABA	A0034472351-001	Default ABA no switch DTNA, ABA3				
Function ACC	A0014478851-001	Default ACC DTNA since R1701				
Function ACC 2	A0014478651-002	Default for ACC2 domain since R1701				
Function ADA	A0034478351-001	Default ADA/ESA				
Function BSA	A0014472951-001	BSA Default-Parameter				
Activation State after Start-up	(from parent)	on				Initial state of the overal...
Trailer Monitoring State after Start-up	(from parent)	on				This parameter is no lon...
Blind Spot Assist Available Side	(from parent)	right				This parameter is no lon...
Brightness Information Day	(from parent)	100.00	%	0.00	100.00	This Parameter indicates...
Brightness Information Night	A0024474251-001	50.00	%	0.00	100.00	This Parameter indicates...
Brightness Warning Day	A0024474351-001	85.00	%	0.00	100.00	This Parameter indicates...
Brightness Warning Night	A0014479551-001	25.00	%	0.00	100.00	This Parameter indicates...
Audio Warn Duration for Driving Objects	(from parent)	2.0	s	0.0	5.0	Time the BSA Audio Wa...
Audio Warn Duration for Stationary Objects	(from parent)	2.0	s	0.0	5.0	Time the BSA Audio Wa...
Time to Collision Threshold	(from parent)			0.0	5.0	Threshold for the Time L...
Articulated Bus	(from parent)					This parameter indicates L...
No Warning Zone	A0014476951-001	A003447351-001 Set BSA TTC to 1s		0.00	2.50	This Parameter defines L...
No Warning Zone Angle Threshold	(from parent)	A0034473751-001 Set BSA TTC to 1.5s		0.0	60.0	This Parameter defines L...
Warning Rear Edge	(from parent)	A0024478951-001 Set BSA TTC to 2.5s				This Parameter indicates...
Speed limit for Brake Request	A0034477051-001	A0024479051-001 Set BSA TTC to 3s		0.0	15.5	This Parameter indicates...
Blind Spot Switch Off Mode	A0034476951-001	switch off				This Parameter indicates...
Blind Spot Degradation Mode	A0034476851-001	acoustic warning				This Parameter indicates...
GVC Parameter	n/a					
GVC Parameter Steering Characteristic	n/a					
Vehicle Parameter: Tractor Geometry	A0034473151-001	DefaultstringTractor geometry since R1803				
Vehicle Parameter: Vehicle Geometry	A0004473951-001	Default Vehicle Geometr...				

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- Go to the 'VRDU02T – Video Radar Decision Unit 2' folder.
- Go to the 'Function BSA' folder.
- Select the 'Time to Collision Threshold' parameter.
- Set the parameter value to 'A0034479551-001 Set BSA TTC to 0s.'

Fig. 3, Setting Parameter Time to Collision Threshold

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7. Select the 'Send' button to write the parameter changes to the VRDU02T ECU in the vehicle. See **Fig. 4**.
8. A window will open asking to confirm the parameter change. Select 'OK.' See **Fig. 5**.

Parameter	Part	Value	Units	Minimum	Maximum	Description
VRDU02T - Video Radar Decision Unit 2						
Brake suppression	A0004476151-001	Full Braking				
ECU Parameter	A0034473351-001	Defaultstring ECU Parameter since R1803				
Function ABA	A0034472351-001	Default ABA no switch DTNA, ABA3				
Function ACC	A0014478851-001	Default ACC DTNA since R1701				
Function ACC 2	A0014478651-002	Default for ACC2 domain since R1701				
Function ADA	A0034478351-001	Default ADA/ESA				
Function BSA	A0014472951-001	BSA Default-Parameter				
Activation State after Start-up	(from parent)	on				Initial state of the overal...
Trailer Monitoring State after Start-up	(from parent)	on				This parameter is no lon...
Blind Spot Assist Available Side	(from parent)	right				This parameter is no lon...
Brightness Information Day	(from parent)	100.00	%	0.00	100.00	This Parameter indicates...
Brightness Information Night	A0024474251-001	50.00	%	0.00	100.00	This Parameter indicates...
Brightness Warning Day	A0024474351-001	85.00	%	0.00	100.00	This Parameter indicates...
Brightness Warning Night	A0014479551-001	25.00	%	0.00	100.00	This Parameter indicates...
Audio Warn Duration for Driving Objects	(from parent)	2.0	s	0.0	5.0	Time the BSA Audio Wa...
Audio Warn Duration for Stationary Objects	(from parent)	2.0	s	0.0	5.0	Time the BSA Audio Wa...
Time to Collision Threshold	A0034479551-001	0.0	s	0.0	5.0	Threshold for the Time t...
Articulated Bus	(from parent)	no articulated Bus				This parameter indicates L...
No Warning Zone	A0014476951-001	0.40	m	0.00	2.50	This Parameter defines t...
No Warning Zone Angle Threshold	(from parent)	0.0	*	0.0	60.0	This Parameter defines t...
Warning Rear Edge	(from parent)	not enabled				This Parameter indicates...
Speed limit for Brake Request	A0034477051-001	12.4	mph	0.0	15.5	This Parameter indicates...
Blind Spot Switch Off Mode	A0034476951-001	switch off				This Parameter indicates...
Blind Spot Degradation Mode	A0034476851-001	acoustic warning				This Parameter indicates...
GVC Parameter	n/a					
GVC Parameter Steering Characteristic	n/a					
Vehicle Parameter: Tractor Geometry	A0034473151-001	DefaultstringTractor geometry since R1803				
Vehicle Parameter: Vehicle Geometr	A0004473951-001	Default Vehicle Geometr				

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Fig. 4, Selecting the Send Button

Confirm Parameter Send

Please confirm the parameter changes listed below.

Parameter	Part	Value	Original Part	Original Value	Unit
VRDU02T					
Function BSA	A0014472951-001	BSA Default-Par...	A0014472951-001	BSA Default-Parameter	
Time to Collision Threshold	A0034479551-001	0.0	(from parent)	2.0	s

There is a total of 1 parameter changes.

Print... OK Cancel

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Fig. 5, Confirming Parameter Send

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- Once the parameter write is complete, go to the 'Program Device' tab. Then select 'Unit data management' in the upper right corner. See Fig. 6.

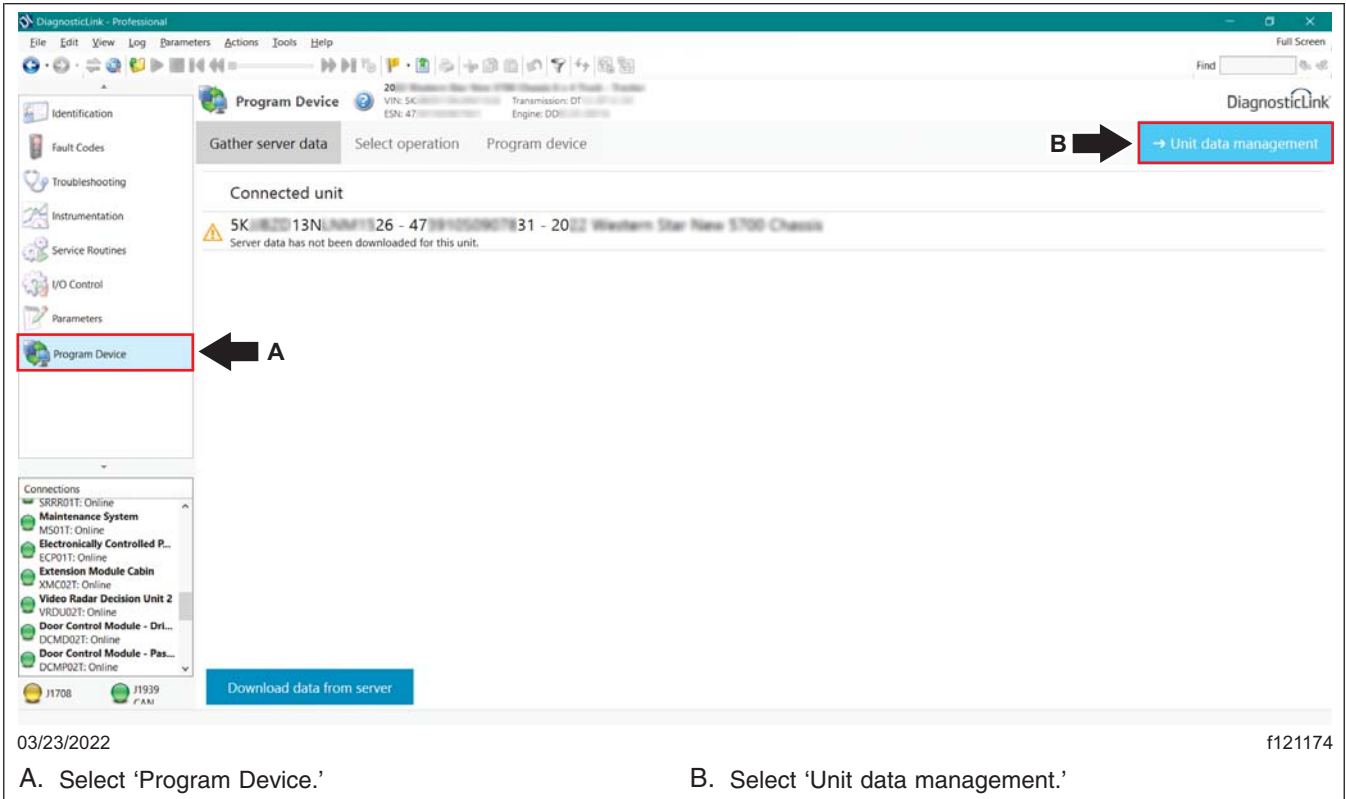


Fig. 6, Selecting Unit Data Management

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- The information corresponding to the VIN should appear under 'Unit data for upload.' Select 'Connect to server' to upload the new parameters. See [Fig. 7](#).

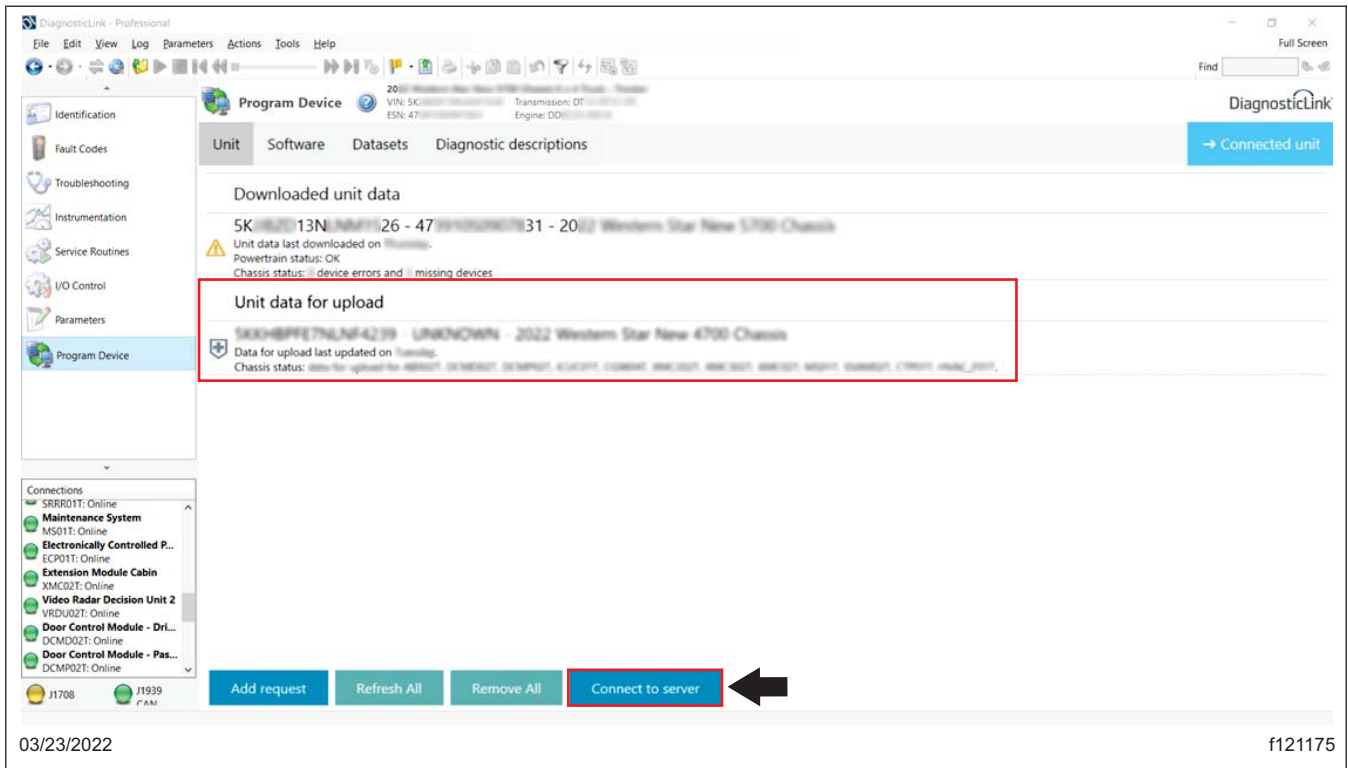


Fig. 7, Uploading the New Parameters

- Once the parameter updates are uploaded to the server, disconnect the vehicle from DiagnosticLink.
- Clean a spot on the base label (Form WAR259), write the campaign number, SF652, on a blank gray completion sticker (Form WAR261), and attach it to the base label, indicating this work has been completed.