

September 2024
F1006 AB
NHTSA #24V-511

Subject: ABA Brake Lamp Illumination

Models Affected: Specific model years 2023-2025 Freightliner Custom Chassis S2C, and S2RV 106 Cab and Chassis manufactured August 25, 2022 through February 8, 2024.

General Information

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned Subsidiary, Freightliner Custom Chassis Corporation (FCCC) has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

When the service brakes are applied during an Active Brake Assist (ABA) event, the brake lamps will not illuminate which may increase the risk of crash.

A Daimler Truck North America authorized facility will update the software parameters to correct the issue.

There are approximately 37 vehicles involved in this campaign.

Additional Repairs

In addition to this recall, check OWL for any other open campaigns. 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.

Work Instructions

Please refer to the attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR260).

Replacement Parts

If our records show your dealership has ordered any vehicle(s) involved in campaign number F1006, a list of the customers and vehicle identification numbers will be available on the DTNA Portal via OWL.

Table 1 - Replacement Parts for F1006

Campaign Number	Part Number	Part Description	Qty.
F1006AB	WAR260	BLANK COMPLETION STICKER	1 ea

Table 1

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 2 - Labor Allowance

Campaign Number	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
F1006AB	Update ABA Stop Lamp Parameters	0.3	996-R243A	12-Repair Recall/Campaign

Table 2

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IMPORTANT - Before Beginning Work:

- Check OWL to ensure the vehicle is involved and the campaign has not previously been completed.
- Check the vehicle for a completion sticker.

IMPORTANT - After Repair is Complete:

- Attach a red completion sticker (Form WAR260) to the base completion label (Form WAR259). If the vehicle does not already have a base completion label, clean a spot on the appropriate location of the vehicle, and attach a base completion label, prior to installing the completion sticker.
- Failure to install a recall completion sticker may result in a chargeback of the recall claim.

Claims for Credit

You will be reimbursed for your parts, labor, and handling (landed cost for Export Distributors) by submitting a claim. Please reference the following information in OWL:

- All claims must be submitted within 30 days of the repair date.
- Claim type is **Recall Campaign**.
- In the Campaign field, enter the campaign number and appropriate population/group code (**F1006-A or F1006-B**).
- In the Primary Failed Part Number field, enter **25-F1006-000**.
- In the Labor field, enter the appropriate SRT from the Labor Allowance table. Administrative time will be included automatically as SRT 939-6010A for 0.4 hours for RVs or 0.3 hours for all other vehicles.
- The VMRS Component Code is **F99-999-005** and the Cause Code is **A1 - Campaign**.
- **U.S. and Canada -- Reimbursement for Prior Repairs.** When a customer asks about reimbursement, please do the following:
 - Accept documentation of the previous repair.
 - Make a brief check of the customer's paperwork to see if the repair may be eligible for reimbursement. (See the "Copy of Owner Letter" section of this bulletin for reimbursement guidelines.)
 - Attach the documentation to a pre-approval recall claim, and submit the pre-approval claim for a decision.
 - If approved, submit a based-on payment claim (based on the pre-approval.)
 - After the claim has been paid, reimburse the customer.

Excess Inventory: U.S. and Canadian dealers, excess inventory related to this campaign, in resalable condition, may be returned to the appropriate PDC. U.S. dealers, submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers, submit a PAR to your facing PDC. PAR requests must include the original purchase invoice number. Export Distributors, excess inventory is not returnable.

For Support: Contact the Warranty Campaigns Department via the Warranty Support Center (WSC) located on the DTNA Portal, or contact the Customer Assistance Center at (800) 385-4357. Export distributors, submit a WSC ticket or contact your International Service Manager.

The letter notifying U.S. vehicle owners is included for reference.

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Please note that the National Traffic and Motor Vehicle Safety Act, as amended (Title 49, United States Code, Chapter 301), requires the owner's vehicle(s) be corrected within a reasonable time after parts are available to you. The Act states that failure to repair a vehicle within 60 days after tender for repair shall be prima facie evidence of an unreasonable time. However, circumstances of a particular situation may reduce the 60 day period. Failure to repair a vehicle within a reasonable time can result in either the obligation to (a) replace the vehicle with an identical or reasonably equivalent vehicle, without charge, or (b) refund the purchase price in full, less a reasonable allowance for depreciation. The Act further prohibits dealers from selling a vehicle unless all outstanding recalls are performed. Any lessor is required to send a copy of the recall notification to the lessee within 10 days. Any subsequent stage manufacturer is required to forward this notice to its distributors and retail outlets within five working days.

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Copy of Notice to Owners

Subject: ABA Brake Lamp Illumination

This notice is sent to you in accordance with the requirements of the Motor Vehicle Safety Act. This is to inform you that your vehicle may contain a defect that could affect the safety of a person.

Daimler Truck North America LLC (DTNA), on behalf of its wholly owned subsidiary, Freightliner Custom Chassis Corporation, has decided that a defect that relates to motor vehicle safety exists on specific model years 2023-2025 FCCC S2C 106, and S2RV 106 Cab and Chassis manufactured August 25, 2022 through February 8, 2024. .

When the service brakes are applied during an Active Brake Assist (ABA) event, the brake lamps will not illuminate which may increase the risk of crash.

A Daimler Truck North America authorized facility will update the software parameter to correct the issue. Repairs will be performed by Daimler Truck North America authorized service facilities.

Please contact an authorized Daimler Truck North America dealer to arrange to have the recall performed and to ensure that parts are available at the dealership. The recall will take approximately one hour and will be performed **free of charge**. To locate an authorized dealer, search online at northamerica.daimlertruck.com/contact-us/. Scroll down to "Locate a Dealer," and select the appropriate brand. You may also confirm your vehicle's involvement in this recall at dtna-dlrinfo.prd.freightliner.com:48518/VinLookup/vin-module/getVinLookupPage.

You may be liable for any progressive damage that results from your failure to complete this recall repair within a reasonable time after receiving notification.

If you do not own the vehicle that corresponds to the identification number(s) which appears on the recall notification, please return the notification to the Warranty Campaigns Department in the postage-paid envelope with any information you can furnish that will assist us in locating the present owner. If you have leased this vehicle, federal law requires that you forward this notice to the lessee within 10 days. If you are a subsequent stage manufacturer, federal law requires that you forward this notice to your distributors and retail outlets within five working days. If you have paid to have this recall condition corrected prior to this notice, you may be eligible to receive reimbursement. Please see the reverse side of this notice for details.

If you have questions about this recall, please contact the Warranty Campaigns Department at (800) 547-0712, 7 a.m. to 4 p.m. Pacific Time, Monday through Friday, e-mail: dtna-war-campaigns@daimlertruck.com. **For the Notice to U.S. Customers:** If you are not able to have the defect remedied without charge and within a reasonable time, you may wish to submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Avenue, SE., Washington, DC 20590; or call the Vehicle Safety Hotline at (888) 327-4236 (TTY: 800-424-9153); or go to www.nhtsa.gov. **For the Notice to Canadian Customers:** If you wish to submit a complaint about this recall, you can contact Transport Canada road safety, 80 rue Noel, Gatineau, Quebec J8Z 0A1 or call (800) 333-0510.

We regret any inconvenience this action may cause, but feel certain you understand our interest in motor vehicle safety.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

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Reimbursement to Customers for Repairs Performed Prior to Recall

If you have already **paid** to have this recall condition corrected you may be eligible to receive reimbursement.

Requests for reimbursement may include parts and labor. Reimbursement may be limited to the amount the repair would have cost if completed by an authorized Daimler Truck North America dealer. The following documentation must be presented to your dealer for consideration for reimbursement.

Please provide original or clear copies of all receipts, invoices, and repair orders that show:

- The name and address of the person who paid for the repair
- The Vehicle Identification Number (VIN) of the vehicle that was repaired
- What problem occurred, what repair was done, when the repair was done
- Who repaired the vehicle
- The total cost of the repair expense that is being claimed
- Proof of payment for the repair (such as the front and back of a cancelled check or a credit card receipt)

Reimbursement will be made by check from your Daimler Truck North America dealer.

Please speak with your Daimler Truck North America authorized dealer concerning this matter.

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Work Instructions

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Models Affected: Specific model years 2023-2025 Freightliner Custom Chassis S2C, and S2RV 106 Cab and Chassis manufactured August 25, 2022 through February 8, 2024..

Updating the Active Brake Assist (ABA) Stop Lamp Parameters

1. Inspect the base label (Form WAR259) for a campaign completion sticker for F1006 (Form WAR260). The base label is usually located on the front wall under the dash. If a completion sticker is present, no work is needed. If a completion sticker is not present, proceed to the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
3. Connect an RP1210B-compliant vehicle diagnostic adaptor to the diagnostic connector on the vehicle, located under the dash.
4. Connect the other end of the RP1210B-compliant vehicle diagnostic adaptor to the laptop.
5. Open DiagnosticLink®.

IMPORTANT: Make sure that DiagnosticLink is updated to the latest version (8.20 at the time of publication, or newer) before programming the vehicle.

6. Turn the ignition key to the ON position.
7. Make sure the 'J1939' databus communicates with DiagnosticLink, and is visible in the 'Connections' panel at the bottom-left of the screen. See [Fig. 1](#).

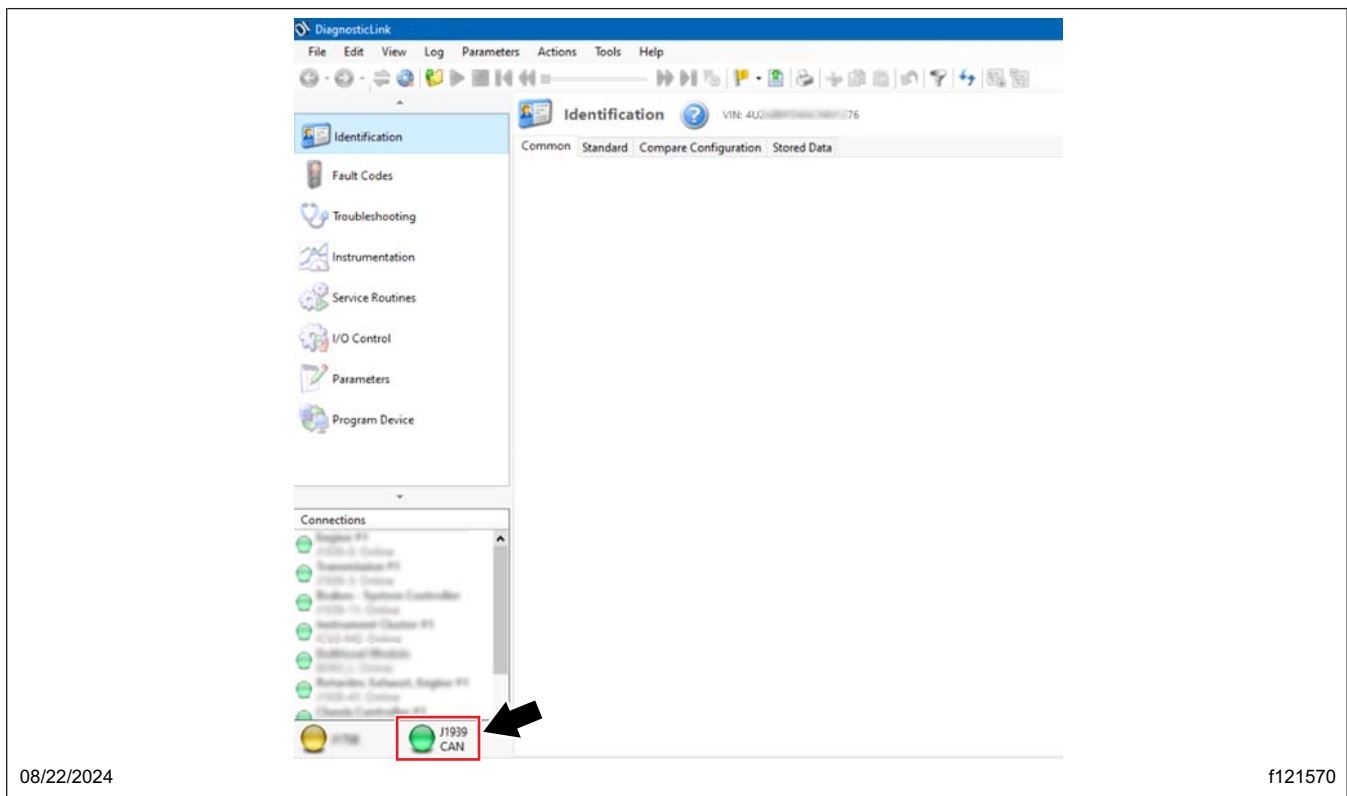


Fig. 1, J1939 Online

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8. Go to the 'Parameters' tab. The 'All Parameters' tab is selected by default. See [Fig. 2](#).
9. Select and expand the 'XMC02T - Expansion Module Cabin' parameter folder. See [Fig. 2](#).

The screenshot shows the DiagnosticLink - Engineering software interface. The 'Parameters' tab is selected in the top menu. The 'All Parameters' sub-tab is also selected. The left sidebar shows the 'Parameters' icon highlighted with a red box and an arrow labeled 'A'. The main area displays a list of parameter folders, with 'XMC02T - Extension Module Cabin' highlighted with a red box and an arrow labeled 'C'. An arrow labeled 'B' points to the 'All Parameters' sub-tab. The interface includes a menu bar (File, Edit, View, Log, Parameters, Actions, Tools, Help), a toolbar with various icons, and a status bar at the bottom showing the date 08/22/2024 and the ID f121564.

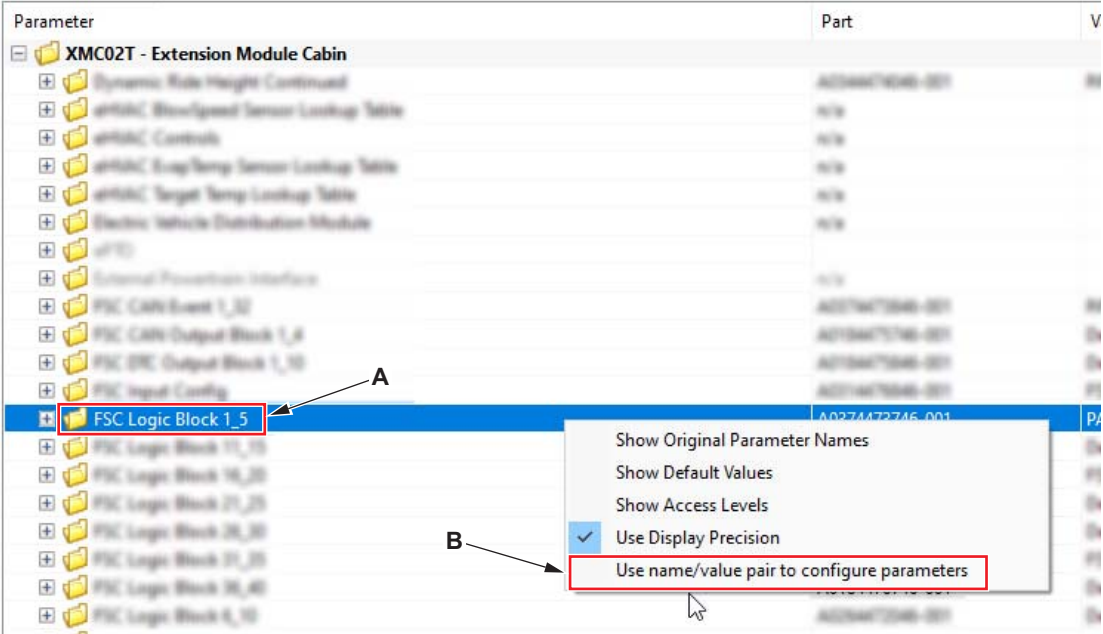
08/22/2024 f121564

A. Go to the 'Parameters' tab.
B. The 'All Parameters' tab is selected by default.
C. Select and expand the 'XMC02T - Expansion Module Cabin' parameter folder.

Fig. 2, Selecting and Expanding the XMC02T Parameter Folder

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10. Right-click on any of the parameter sub-folders within the XMC02T folder, and make sure the 'Use name/value pair to configure parameters' option is unchecked. See [Fig. 3](#).

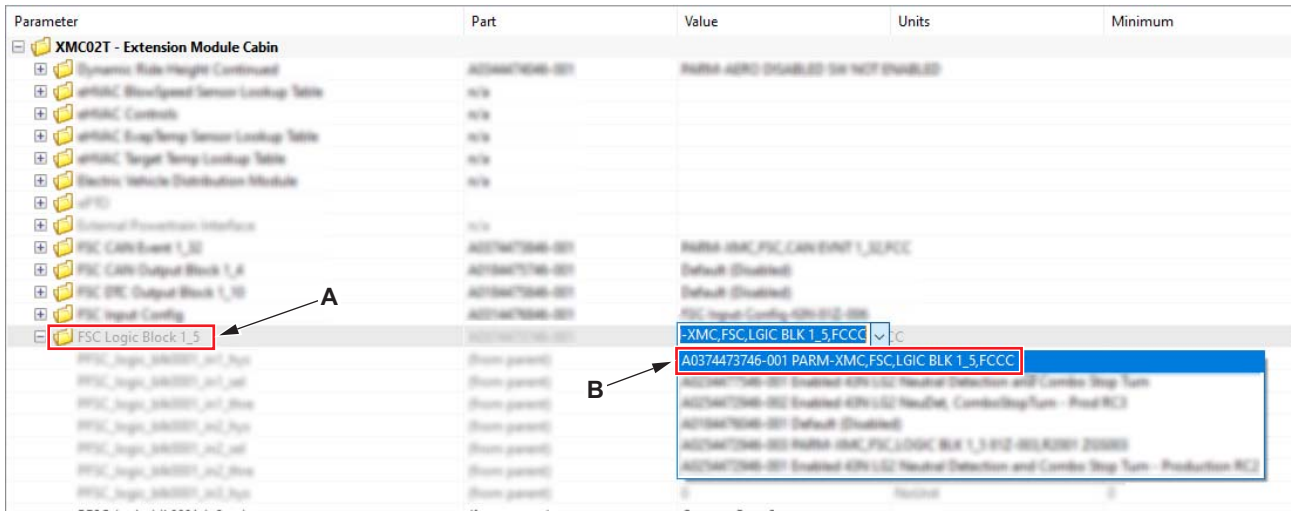


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A. Right-click on any of the parameter sub-folders.
B. Make sure the 'Use name/value pair to configure parameters' option is unchecked.

Fig. 3, Making Sure the Option is Unchecked

11. Select the 'FSC Logic Block 1_5' parameter sub-folder, and set the parameter value to 'A0374473746-001 PARM-XMC,FSC,LGIC BLK 1_5,FCCC.' See [Fig. 4](#).



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A. Select the 'FSC Logic Block 1_5' parameter sub-folder.
B. Set the parameter value to 'A0374473746-001 PARM-XMC,FSC,LGIC BLK 1_5,FCCC.'

Fig. 4, Setting the FSC Logic Block 1_5 Parameter Value

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12. Select the 'FSC CAN Event 1_32' parameter sub-folder, and set the parameter value to 'A0374473846-001 PARM-XMC,FSC,CAN EVNT 1_32,FCC.' See [Fig. 5](#).

Parameter	Part	Value	Units	Minimum
XMC02T - Extension Module Cabin				
Dynamic Ride Height Controller	ACT04070446-001	RAWR-APRC DISABLED OR NOT ENABLED		
Vehicle Speed Sensor Lookup Table	n/a			
Vehicle Controls	n/a			
Vehicle Emergency Sensor Lookup Table	n/a			
Vehicle Target Temp Lookup Table	n/a			
Electric Vehicle Distribution Module	n/a			
EPIC				
External Proximity Interface	n/a			
FSC CAN Event 1_32	ACT04070446-001	XMC,FSC,CAN EVNT 1_32,FCC		
FSC_can_event0001_id	from parent	A0374473846-001 PARM-XMC,FSC,CAN EVNT 1_32,FCC		
FSC_can_event0002_id	from parent	ACT04070446-001 CAN_event 1_32 STOP OF 1ST FCC		
FSC_can_event0003_id	from parent	ACT04070446-001 Defaulting CANEventMasterId		
FSC_can_event0004_id	from parent	ACT04070446-001 Default (Disabled)		
FSC_can_event0005_id	from parent	ACT04070446-004 RAWR-EMC_FSC,CAN EVENT 1_32, R12-001,AL000 200004		
FSC_can_event0006_id	from parent	ACT04070446-005 RAWR-EMC_FSC,CAN EVENT 1_32, R12-008,AL000 200005		
FSC_can_event0007_id	from parent	ACT04070446-001 FSC CAN EVNT 1_32 FCC		
FSC_can_event0008_id	from parent	ACT04070446-002 RAWR-EMC_FSC,CAN EVENT 1_32, R12-008,AL000 200002		
FSC_can_event0009_id	from parent	ACT04070446-003 RAWR-EMC_FSC,CAN EVENT 1_32, R12-008,AL000 200003		
FSC_can_event0010_id	from parent	ACT04070446-001 FSC CAN EVENT 1_32 FCC 200 002		
FSC_can_event0011_id	from parent	ACT04070446-001 RAWR-EMC_FSC,CAN EVENT 1_32,FCCC,R12-008,AL000		
FSC_can_event0012_id	from parent	ACT04070446-001 Enabled 40N L02 Ford Pro Config - Production RC2		

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A. Select the 'FSC CAN Event 1_32' parameter sub-folder.
B. Set the parameter value to 'A0374473846-001 PARM-XMC,FSC,CAN EVNT 1_32,FCC.'

Fig. 5, Setting the FSC CAN Event 1_32 Parameter Value

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13. Select the 'FSC Parameters OutputPinBlock 1_12' parameter sub-folder, and set the parameter value as follows:

- For vehicles with combo stop/turn lamps (sales code 294-126) → select 'A0324476846-002 FSC OUTPUTBLOCK 1_12 FCCC.' See [Fig. 6](#).
- For vehicles with separated stop and turn lamps (sales code 294-027) → select 'A0324479846-002 FSC OUTPUTBLOCK 1_12 XMC1 FCCC.' See [Fig. 7](#).

The screenshot displays a table with columns: Parameter, Part, Value, Units, and Minimum. The 'Parameter' column shows a tree structure under 'XMC02T - Extension Module Cabin'. The 'FSC Parameters OutputPinBlock 1_12' parameter is selected, and its value is set to 'A0324476846-002 FSC OUTPUTBLOCK 1_12 FCCC'.

A points to the 'FSC Parameters OutputPinBlock 1_12' parameter sub-folder.

B points to the selected value 'A0324476846-002 FSC OUTPUTBLOCK 1_12 FCCC'.

08/22/2024 f121568

A. Select the 'FSC Parameters OutputPinBlock 1_12' parameter sub-folder.
B. Set the parameter value to 'A0324476846-002 FSC OUTPUTBLOCK 1_12 FCCC.'

Fig. 6, Setting the FSC Parameters OutputPinBlock 1_12 Parameter Value, Combo Stop/Turn Lamps

The screenshot displays a table with columns: Parameter, Part, Value, Units, and Minimum. The 'Parameter' column shows a tree structure under 'XMC02T - Extension Module Cabin'. The 'FSC Parameters OutputPinBlock 1_12' parameter is selected, and its value is set to 'A0324479846-002 FSC OUTPUTBLOCK 1_12 XMC1 FCCC'.

A points to the selected value 'A0324479846-002 FSC OUTPUTBLOCK 1_12 XMC1 FCCC'.

08/22/2024 f121569

A. Set the parameter value to 'A0324479846-002 FSC OUTPUTBLOCK 1_12 XMC1 FCCC.'

Fig. 7, Setting the FSC Parameters OutputPinBlock 1_12 Parameter Value, Separated Stop/Turn Lamps

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14. Select the 'Send' button to write the parameter changes to the XMC02T ECU in the vehicle. A window opens asking to confirm the parameter changes. Select 'OK.' See [Fig. 8](#).

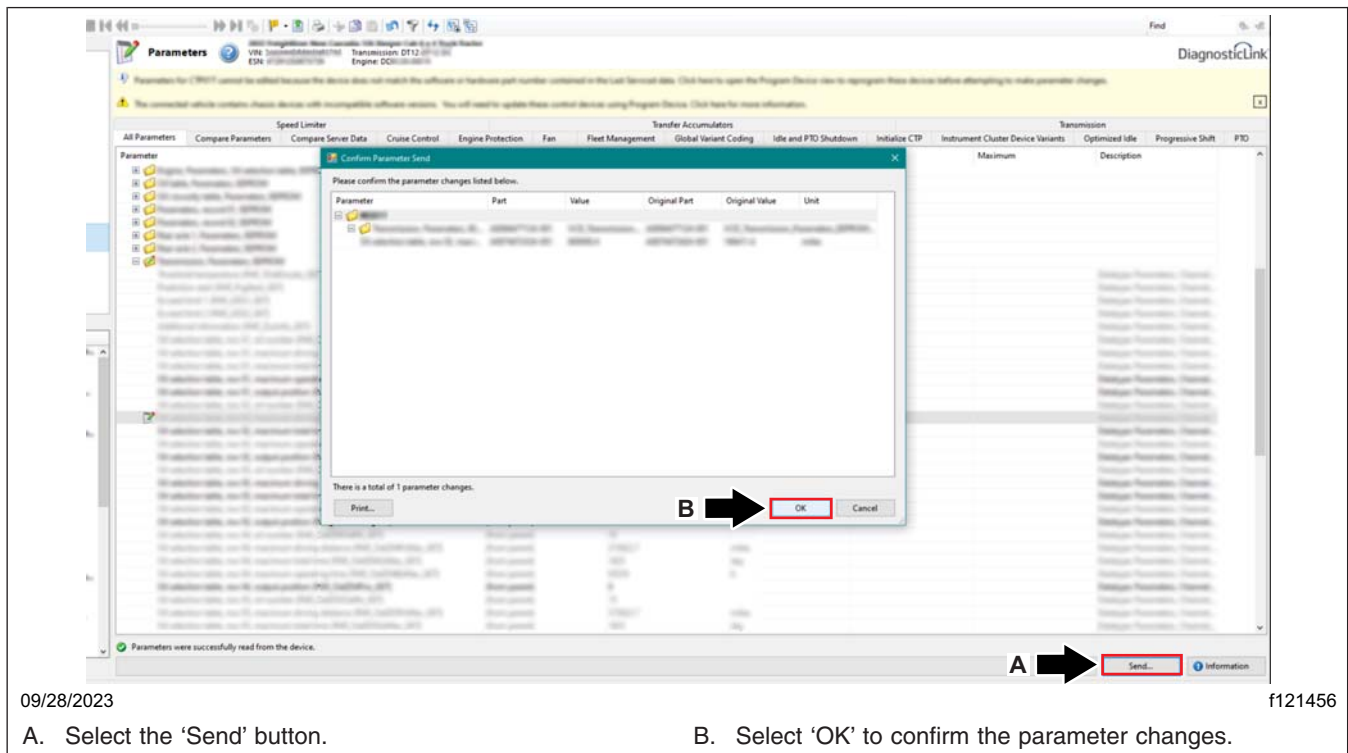
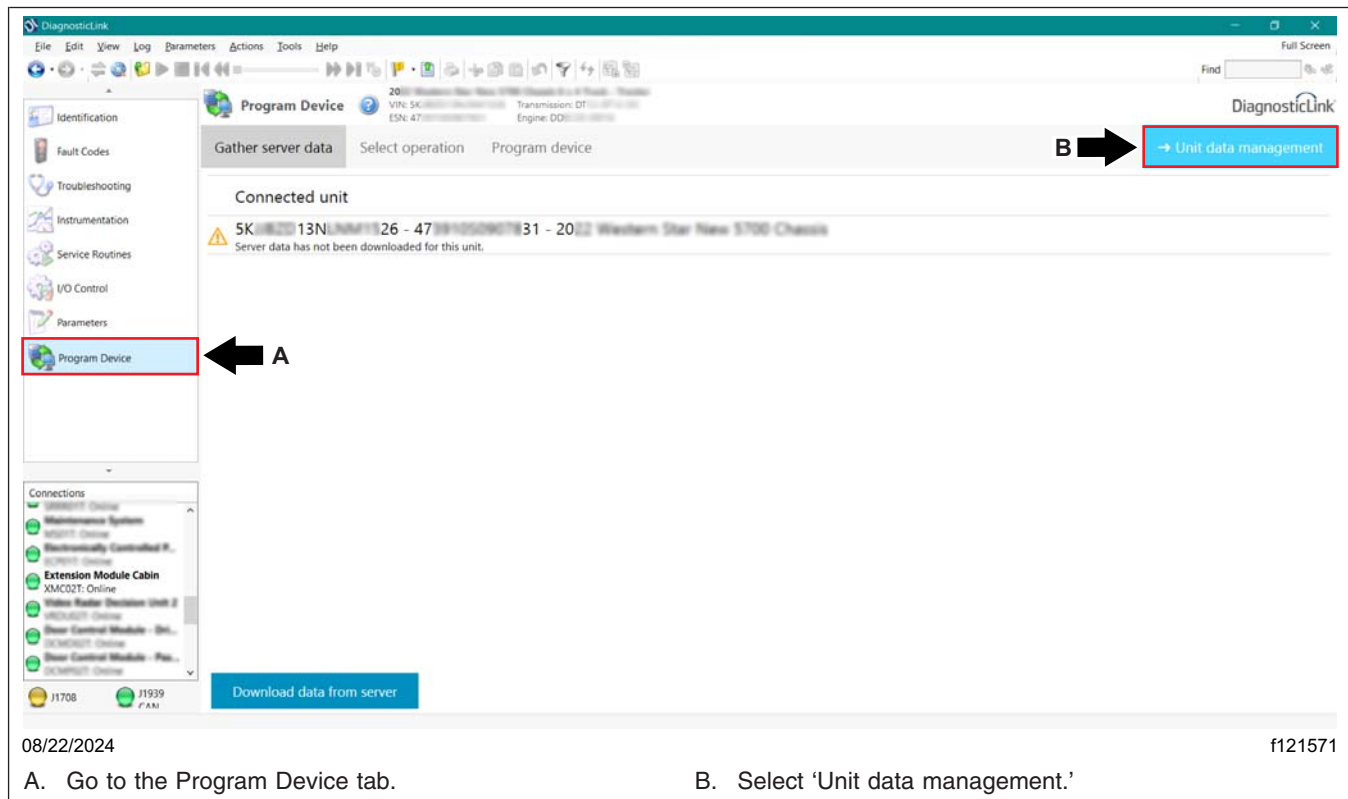


Fig. 8, Writing the Parameter Changes to the Vehicle

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15. Once the parameter change is complete, go to the 'Program Device' tab. Select 'Unit data management' in the upper-right corner. See [Fig. 9](#).



The screenshot shows the DiagnosticLink software interface. On the left sidebar, the 'Program Device' tab is highlighted with a red box and labeled 'A'. In the main area, the 'Program Device' tab is active, showing a 'Connected unit' section with a warning icon and the text 'Server data has not been downloaded for this unit.' In the top right corner of the main area, there is a button labeled '→ Unit data management' with a red box around it and labeled 'B'. Below the 'Connected unit' section, there is a 'Download data from server' button. The bottom of the interface shows the date '08/22/2024' and the identifier 'f121571'.

08/22/2024 f121571

A. Go to the Program Device tab. B. Select 'Unit data management.'

Fig. 9, Selecting Unit Data Management

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16. The information corresponding to the VIN should appear under the 'Unit data for upload.' Select 'Connect to server' to upload the new parameters. See [Fig. 10](#).

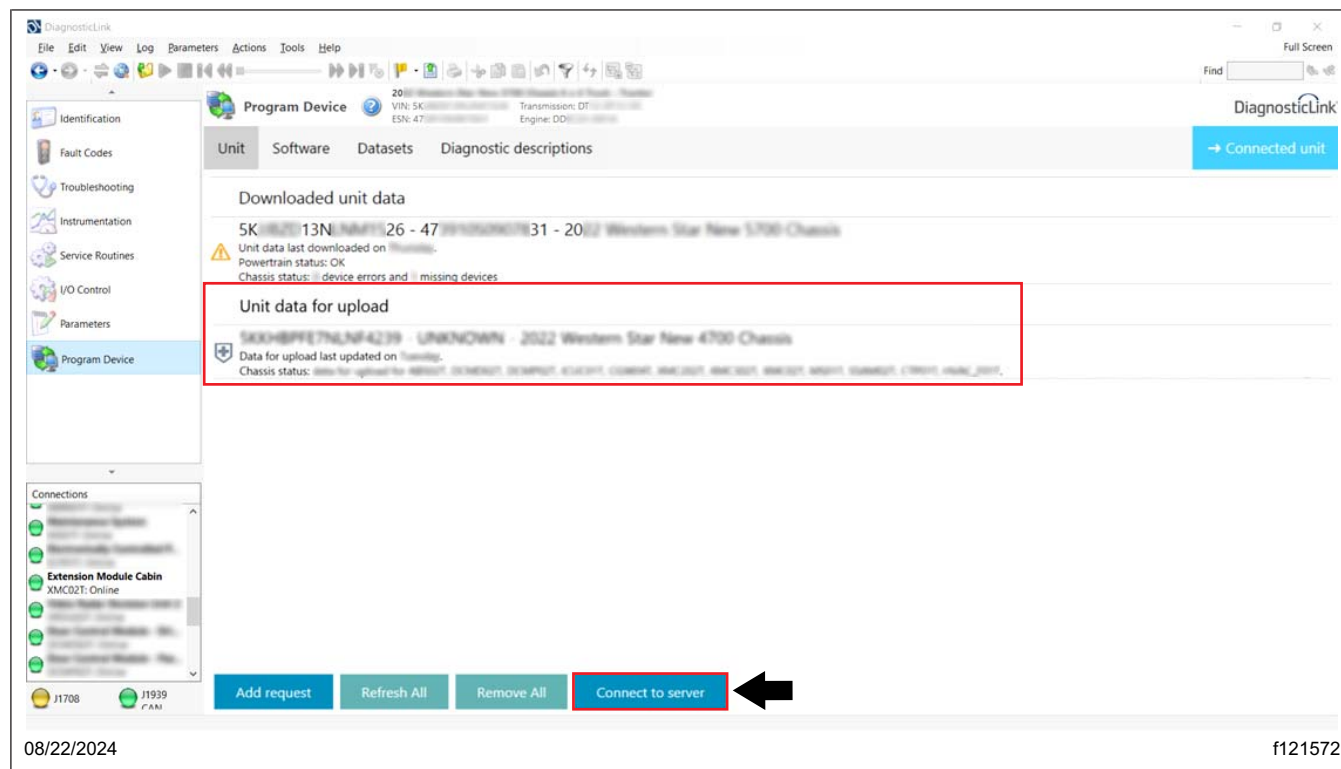


Fig. 10, Uploading the New Parameters to the Server

17. Once the parameter updates are uploaded to the server, disconnect the vehicle from DiagnosticLink.
18. Verify the functionality of the stop, turn, and hazard lamps. Stop lamps can be verified only through the service brake.
19. Turn the ignition key to the OFF position.
20. Clean a spot on the base label (Form WAR259), and attach a campaign completion sticker for F1006 (Form WAR260), indicating this work has been completed.