

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

## Cascadia Axle Conversion: Adaptive Tandem (AT) 6x4 to New Final Drive (NFD)

Models Affected					
Make	Model	Model Year Start	Model Year End	Production Start Date	Production End Date
Freightliner	Cascadia	2021	2024	02/24/2020	02/02/2023

**REVISION:** The work instructions have been revised. Please note that some parts in the kits may not be needed to complete the repair, specifically shims and fifth wheel angles.

### General Information

On behalf of the entity listed below, Daimler Truck North America LLC (DTNA), is initiating Field Service Campaign SF706 to modify the affected vehicles.

- Freightliner Trucks Division

**PROBLEM:** Due to discontinued production, certain vehicles with an Adaptive Tandem (AT) 6x4 axle configuration will no longer be supported with service documentation and service parts.

**SOLUTION:** The vehicles will be retrofitted, replacing the AT 6x4 axle configuration with New Final Drive (NFD) axles and supporting parts.

There are approximately 63 vehicles involved.

### Additional Repairs

Dealers must complete all outstanding Recall and Field Service campaigns prior to sale or delivery of a vehicle. 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 attached work instructions. Prior to performing the campaign, check the vehicle for a completion sticker (Form WAR261).

### Replacement Parts

**NOTE:** Do not order parts (other than the sensor guard). DTNA will coordinate the shipment of axles and kits to each repair location after confirming with the dealer and/or their DSM the specific locations where customers will be and the timing of their visits.

If our records show your dealership has ordered any vehicle(s) involved in campaign SF706, a list of the customers and vehicle identification numbers will be available on the DTNA Portal via OWL.

SF706 A-B

**Creation Date:** February 2026

**Revision Date:** April 2026

**Important – After Repair is Complete:**

Attach a red completion sticker (WAR261) to the base label (WAR259).

If the vehicle does not have a base label, clean a spot on the appropriate location and attach a base label prior to attaching the completion sticker.

Failure to install a completion sticker may result in a chargeback of the campaign claim.

**Table 1 – Replacement Parts**

Groups	Part/Kit Numbers	Part/Kit Descriptions	Qty	Note
A-B	Various	Axles & Part Kits Provided by DTNA	Various	Do Not Order (DTNA will arrange shipment.)
	06-96696-000	GUARD-AXLE TEMP SNSR	1	Order this part (not included in kit)
	WAR261	Blank Completion Sticker	1	

**Removed Axles and Other Parts**

- **Axles must be returned to a Detroit Reman Consolidation Center (Reman West).**
- Do not destroy the box/pallet as it may be used for return shipping.
- **Return Address:**  
Detroit Diesel Remanufacturing  
135 South Lodestone Way  
Tooele, UT 84074
- For all other parts: U.S. and Canadian Dealers, use the part disposition to determine how to manage removed parts (return, scrap, etc.). Dispositions are available at the date of the repair.

**Claim Reimbursement – Labor Allowance**

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

You will be reimbursed for your parts, labor, and handling by submitting your claim through the warranty system within 30 days of completing this campaign.

- In OWL, use the 'Retrieve' function and select the appropriate procedure. This will auto-populate the PFP, component code, cause, corrective action, and SRT code(s).

**Table 2 – Claim Reimbursement**

<b>Claim Type</b>	Field Service Campaign
<b>Campaign</b>	SF706 A-B
<b>VMRS Component Code</b>	F99-999-005
<b>Cause Code</b>	A1 – Campaign
<b>Primary Failed Part</b>	25-SF706-000

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

**Table 3 – Labor Allowance**

Group	Procedure	Time Allowed (hours)	SRT Code	Corrective Action
A	Replace Rear Axles (DCDL)	45.3	996-F248A	12-Repair Recall/Campaign
B	Replace Rear Axles (Non-DCDL)	42.3	996-F248B	12-Repair Recall/Campaign

## Claims for Credit

- NOTE: Include new axle serial #'s on the claim so that Vehicle Info can be updated.
- Claim type is Field Service Campaign.
- In the Campaign field, enter the campaign number and group (SF706 A or B).
- In the Primary Failed Part field, enter 25-SF706-000.
- In the Parts section, no entry is required as kits are provided by DTNA. However, if additional parts were needed, such as the temperature sensor guard, they may be added to this section.
- In the Labor section, enter the appropriate SRT from the Labor Allowance Table. Administrative time will auto-populate if applicable using SRT 939-6010A for 0.3 hours.
- In the Other Charges section, enter sublet repair information if a tire shop is involved.
- 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 the 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.)
  - Submit an OWL Field Service Pre-Approval Request for a decision.
  - Include the approved amount on your OWL claim in the Other Charges section.
  - Attach the documentation to the pre-approval request.
  - If approved, submit a ‘based on claim’ for the pre-approval.
  - The Dealer is required to reimburse the customer the appropriate amount.

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

U.S. and Canadian dealers, contact the Warranty Campaigns Department via an inquiry at [DTNAPortal.com/PNA](http://DTNAPortal.com/PNA), if you have any questions or need additional information. Export distributors, submit a PNA inquiry or contact your International Service Manager.

U.S. and Canadian Dealers: To return excess kit inventory related to this campaign, U.S. dealers must submit a Parts Authorization Return (PAR) to the Memphis PDC. Canadian dealers must submit a PAR to their facing PDC. All kits must be in resalable condition. PAR requests must include the original purchase invoice number. Export Distributors: Excess inventory is not returnable.

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

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

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.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

## Copy of Notice to Owners

### Cascadia Axle Conversion: Adaptive Tandem (AT) 6x4 to New Final Drive (NFD)

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division is initiating Field Service Campaign SF706 to modify specific model years 2021-2024 Freightliner Cascadia vehicles, manufactured February 24, 2020, to February 2, 2023.

Due to discontinued production, certain vehicles with an Adaptive Tandem (AT) 6x4 axle configuration will no longer be supported with service documentation and service parts.

The vehicles will be retrofitted, replacing the AT 6x4 axle configuration with New Final Drive (NFD) axles and supporting parts.

Please contact an authorized DTNA dealer to arrange to have the campaign performed and to ensure that parts are available. The campaign will take approximately fifty hours and will be performed **free of charge**. To locate an authorized dealer go to <https://northamerica.daimlertruck.com/brands/support>. At the bottom of the page click on the appropriate brand (shown as an icon), and at the top of each brand's page is an option to 'Find a Dealer'.

This Field Service Campaign will **terminate on February 28, 2027**. 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 Truck North America LLC will not pay for any damage caused by failure to properly maintain your vehicle. Daimler Truck 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.

If you have any questions, 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-war-campaigns@daimlertruck.com](mailto:dtna-war-campaigns@daimlertruck.com), or the Customer Assistance Center at (800) 385-4357.

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

## Work Instructions

### Cascadia Axle Conversion: Adaptive Tandem (AT) 6x4 to New Final Drive (NFD)

Models Affected					
Make	Model	Model Year Start	Model Year End	Production Start Date	Production End Date
Freightliner	Cascadia	2021	2024	02/24/2020	02/02/2023

**REVISION:** The work instructions have been revised. Please note that some parts in the kits may not be needed to complete the repair, specifically shims and fifth wheel angles.

## Tandem Axle (AT) 6x4 to New Final Drive (NFD) Axle Conversion

NOTE: The individual performing the work should be supplied with a copy of these work instructions. For any questions, please submit a ticket to the Campaigns team via the Prism Network Assist (PNA) located on the DTNA Portal.

NOTE: These work instructions are intended for dealers to perform the work. If the modification is passed to a customer, body builder, etc., it is up to the dealer that filed the request to provide support to the third party.

NOTE: Refer to the Workshop Manual, Group 00 General Information, for Torque Specifications.

### Disclaimer of Warranty and Limitation of Liability:

Daimler Truck North America makes no warranty of any kind, express or implied, including any implied warranty of merchantability or fitness for a particular purpose in connection with the parts and services provided, beyond the warranty for materials and workmanship of the parts sold. Except as otherwise required by law, your acceptance of this parts list constitutes agreement to the provisions above and to agreement that Daimler Truck North America is not liable for any damages beyond the warranty for materials and workmanship of the parts sold.

### Preparing the Chassis for Removal of the Axle

1. Check the base label (Form WAR259) for a completion sticker for SF706 (Form WAR261), indicating this work has been done. The base label is usually located on the passenger-side door, about 12 in (30 cm) below the door latch. If a completion sticker is present, no work is needed. If a completion sticker is not present, proceed to the next step.
2. Record the Vehicle Identification Number (VIN).
3. Identify the new matching sales axles that will go into the vehicle.
4. For warranty purposes, record the new axle serial numbers and the last six sales axle numbers. Additionally, take pictures of the axle tags. Provide the new axle serial numbers on the claim.

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

## Removal of the Rear Drive Axle

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the front tires.
2. Disconnect the batteries.

**IMPORTANT:** All drive tires must be discarded and replaced with new tires.

3. Remove the rear 1/4 fender aero fairings.
4. If equipped, remove all rear axle wheel flow below covers (hub wheel covers).
5. If equipped with TPMS, dismount the original rear tires and remove the TPMS sensors.
6. Remove the rear axle tires.
7. Place the chassis/axles on the jack stands for safety.
8. Disconnect the rear axle Antilock Braking System (ABS) sensor connections.
9. Disconnect the rear axle temperature sensor wiring and cut the tie straps that secure the wiring to the axles.
10. Deflate the air system allowing the suspension air bags to flatten.
11. Disconnect the inter-axle driveline from the rear drive axle only and let the end fall loose.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

12. Raise the chassis and roll the dolly under the rear drive axle, then lower the chassis to rest the axle on the dolly. See [Fig. 1](#).



08/12/2025

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**Fig. 1, Resting the Axle on the Dolly**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

13. Disconnect the air hoses from the brake chambers. See [Fig. 2](#).



**Fig. 2, Air Hoses Connected to the Brake Chambers**

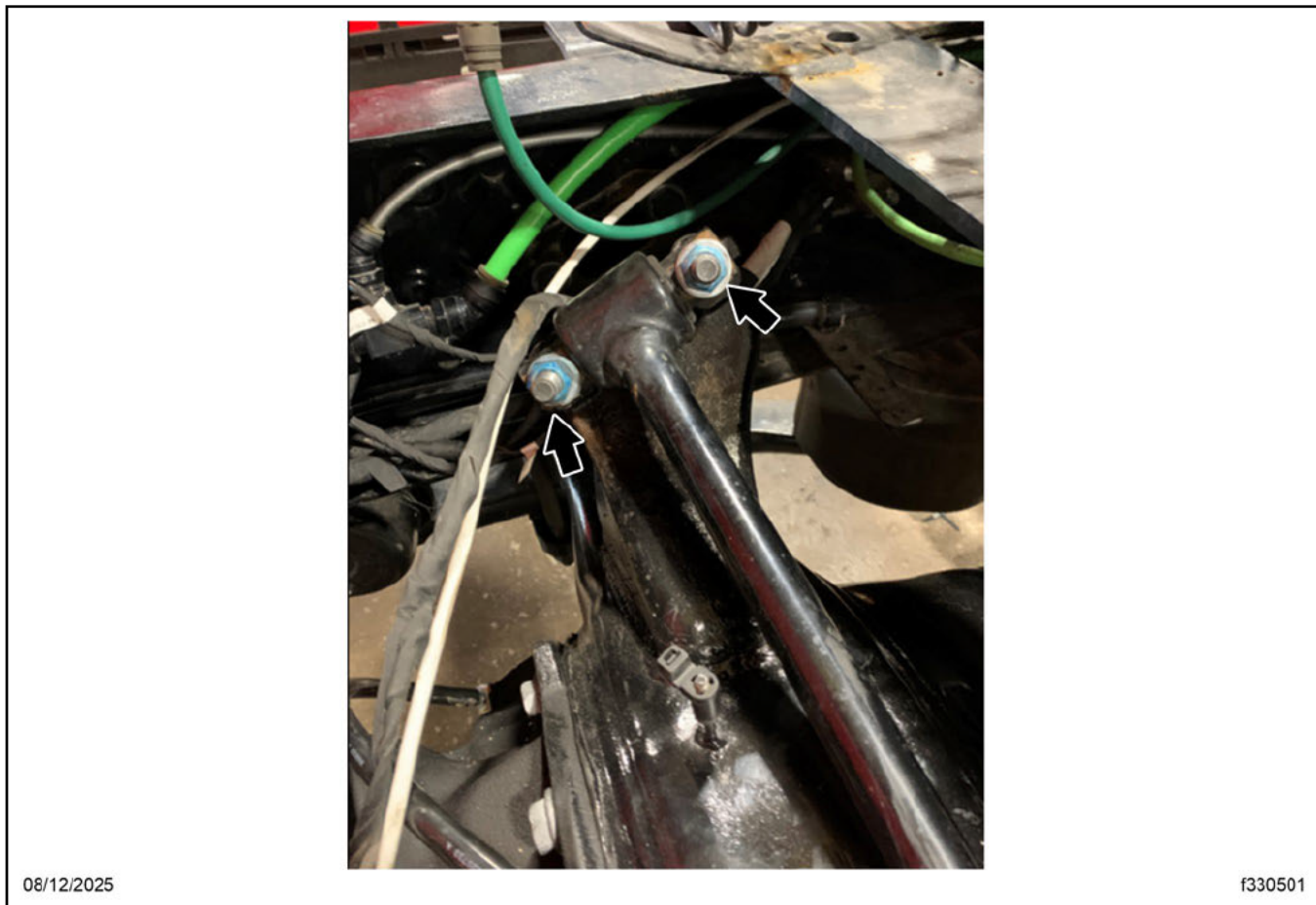
14. Remove only the upper mounting bolts from the rear drive axle shock and save the bolts for installation.
15. Remove only the air bag bell nuts and washers from the rear drive axle. Save the fasteners for installation.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

16. Remove the rear drive axle lateral rod. See [Fig. 3](#).



**Fig. 3, Lateral Rod Bolts Connecting the Rear Drive Axle Tower to the Frame**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

17. Remove the bolts from the spring eye for the rear drive axle only.
18. Lift the chassis from the axle and roll the axle out from under the vehicle. Chain the front drive axle to the frame so the suspension doesn't hang down and damage the air bag while lifting the chassis.
19. Leave the axle on the dolly to facilitate stripping the axle. See [Fig. 4](#).



**Fig. 4, Axle Removed from the Chassis**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

## Uncrating Both New Axles / Craning to the Jack Stand Rack

1. Cut the strapping/wood blocks to remove the new axles from the shipping crate. See [Fig. 5](#).



08/12/2025

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**Fig. 5, New Axle on a Shipping Crate**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

2. Use the overhead hoist crane with chains to remove the axle from the shipping crate.
3. Crane the new rear drive axle and place the axle on the jack stand rack. See [Fig. 6](#).



**Fig. 6, Craning the New Rear Drive Axle**

### Stripping the Rear Drive Axle

1. Remove the shocks from the springs. Save the shocks and fasteners for installation.
2. Remove the springs. Save the springs along with the axle top and bottom spring pad for installation.
3. Discard the existing axle seat, U-bolts, nuts, and washers.
4. Remove the axle temperature sensor and save the sensor for installation.
5. Remove the axle vent tube and save for installation.

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

## Building Up the Rear Drive Axle on the Jack Stand Rack

NOTE: Refer to the Workshop Manual, Group 00 General Information, for Torque Specifications.

1. Remove two axle seats from the kit.
2. Remove four U-bolts, eight washers, and nuts from the kit.
3. Install the U-bolts for the top axle stop pads on the axle.
4. Place the new axle seat on top of the spring in proper position. The seat has directional indicators.
5. Install the spring with the bottom pad, with the tail facing back.
6. Install new U-bolts, nuts, and washers to hold the spring in place.
7. Verify the top axle pad is in the proper location.
8. Tighten the U-bolt nuts just enough to allow the spring to move a bit side-to-side for axle installation.
9. Remove the rear axle oil plug and install the temperature sensor. Ensure it is in the same position as the old axle.
10. Inspect the axle for oil and verify that the oil level is below the weld point. If the new axle does not have a sensor guard installed, weld a guard in place to protect the axle temperature sensor.
11. Top off axle oil to compensate for any oil lost after installing the sensor.
12. Install the new brass brake hose fittings in proper ports for service and parking brake chambers.
13. Install the rear shocks using the original fasteners at the spring side.
14. Install the axle vent tube.
15. Place the new lateral rod bolts from the kit through the tower and secure them with a tie strap. This provides clearance for the bolts.

## Craning the Old Rear Drive Axle into the Shipping Crate

1. Attach the overhead crane/chain to the old axle.
2. Crane the old rear drive axle and place it in the shipping crate for return.
3. Take the crane to the new rear drive axle sitting on the jack stand rack and place the axle on the floor for installation at a later step.
4. Lift and crane the new matching forward drive axle from the shipping crate and place on the jack stand rack.

## Removal of the Forward Drive Axle from the Chassis

**IMPORTANT:** All drive tires must be discarded and replaced with new tires.

1. Disconnect the rear axle ABS sensor connections.
2. Disconnect the axle temperature sensor wiring and cut the tie straps that secure the wiring to the axles.
3. Raise the chassis and roll the dolly under the forward drive axle and lower the chassis to rest the axle on the dolly.

## SF706 A-B

**Creation Date:** February 2026

**Revision Date:** April 2026

4. Disconnect the air hoses from the brake chambers.
5. Remove the inter-axle driveline from the back of the forward drive axle.
6. Remove the suspension leveling rod.
7. Remove only the upper mounting bolts of the shock from the forward drive axle. Save the fasteners for installation.
8. Remove only the air bag bell nuts and washers from the forward drive axle. Save the fasteners for installation.
9. Remove the two bolts that secure the lateral rod to the drive axle tower.
10. Remove the bolts from the spring eyes for the forward drive axle.
11. Lift the chassis from the axle, support the frame, and roll the axle out from under the vehicle.
12. Leave the axle on the dolly to facilitate removal of the axle components.
13. Rest the chassis on the jack stands for safety.

### Removal of Components from the Forward Drive Axle

1. Remove the shocks from the springs. Save the shocks and fasteners for installation.
2. Remove the springs. Save the springs along with the axle top and bottom spring pad for installation.
3. Discard the existing axle seat, U-bolts, nuts, and washers.
4. Remove the axle temperature sensor and save the sensor for installation.
5. Remove the axle vent tube and save for installation.
6. After the components are removed, crane the old forward drive axle and place it into the shipping crate.

### Building Up the Forward Drive Axle on the Jack Stand Rack

NOTE: Refer to the Workshop Manual, Group 00 General Information, for Torque Specifications.

1. Remove two axle seats from the kit.
2. Remove four U-bolts, eight washers, and nuts from the kit.
3. Place the axle stop cast on the top axle housing in position.
4. Hang the U-bolts on the top axle stop pads on the axle.
5. Place the new axle seat on top of the spring in proper position. The seat has directional indicators.
6. Install the spring and pad with the thick end of the new axle seat on the aft side per D16-20089-001.
7. Install new U-bolts, nuts, and washers to hold the spring in place.
8. Verify the top axle pad is in the proper location.
9. Tighten the U-bolt nuts just enough to allow the spring to move a bit side-to-side for axle installation.
10. Remove the axle oil plug and install the temperature sensor.

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

11. Inspect the axle for oil and verify that the oil level is below the weld point. If the new axle does not have a sensor guard installed, weld a guard in place to protect the axle temperature sensor.
12. Top off axle oil to compensate for any oil lost after installing the sensor.
13. Install the new brass brake hose fittings in proper ports for service and parking brake chambers.
14. Install the rear shocks using the original fasteners at the spring side.
15. Install the axle vent tube.
16. Crane the new forward drive axle and place on the axle hang dolly.
17. Install the inter-axle driveline on the back of the forward drive axle and tighten the fasteners.
18. Install the main driveline on the front of the forward drive axle and tighten the fasteners.
19. Place the front of the main driveline slip joint/yoke on the small dolly.
20. Place new lateral rod bolts from the kit through the tower and secure them with a tie strap. This provides clearance for the bolts.

## Reworking the Frame for Lateral Rod / Reinforcement Plates

1. Remove the bolts that attach both forward and rear lateral rods and saddles to the frame.
2. Remove the shock bracket from the right-hand rear axle frame.
3. Remove the right-hand frame axle stop casting by cutting the four frame huck bolts.
4. Remove the left-hand forward shock bracket.
5. Remove the left-hand forward frame axle stop casting from frame by cutting the four frame huck bolts.

## Installation of Frame Reinforcement Plates for Axle Lateral Rods

1. Place and align the appropriate reinforcement plate on the right-hand side frame rail to relocate the lateral rod for the rear-rear drive axle.
2. Using the plate as a template, position it on the outside of the frame rail, aligning the three holes for the frame axle stop.
3. Once the holes are aligned, install temporary bolts and tighten them, leaving the frame axle stop off for now to keep the plate properly located.
4. Place and align the appropriate reinforcement plate on the left-hand forward frame rail to relocate the lateral rod for the forward-rear drive axle.
5. Using the plate as a template, position it on the outside of the frame rail, aligning the three holes for the frame axle stop.
6. Once the holes are aligned, install temporary bolts and tighten them, leaving the axle stop off for now to keep the plate properly located.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

7. Use a 5/8-inch mag drill or equivalent to drill out the required holes in the left-hand forward frame through the holes for the lateral rod and reinforcement plate. Use the old plate as a drilling guide. See [Fig. 7](#).



12/15/2025

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**Fig. 7, Left-Hand Forward Lateral Rod and Bolt Installation After Drilling Is Completed**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

8. Use a 5/8-inch mag drill or equivalent to drill out the required holes in the right-hand frame through the holes for the lateral rod and reinforcement plate. Use the old plate as a drilling guide. See [Fig. 8](#).



12/15/2025

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**Fig. 8, Right-Hand Lateral Rod and Bolt Installation After Drilling Is Completed**

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

9. After drilling, remove the temporary bolts and move the reinforcement plates to the inside of the frame rail where the holes were drilled.
10. Install the shock mount and axle frame stop bracket using the proper length bolts. Fill any remaining holes in the frame rails with grade 8 hardware following the same guidelines, ensuring at least 3 full threads extend past the nuts.
11. Repeat this process for each reinforcement plate on the rear drive axle at the opposite frame rail.
12. Tighten all bolts securing the reinforcement plates on both frame rails, except the lateral rod and saddle bolts, to allow axle installation.
13. Replace any warning labels that were damaged/covered by the work being performed. Relocate labels if necessary.

## Installation of the Forward Drive Axle into the Chassis

1. Raise the chassis with an overhead hoist or a four-point lift.
2. Roll the forward drive axle that is on the axle dolly under the chassis.
3. Extend the shocks out to the max position.
4. As the chassis is being lowered on to the axle, line up the suspension air bag bell studs into the rear spring.
5. Install the airbag stud using the new nuts and washers and tighten.
6. Continue to lower the chassis on to the axle, lining up the front spring eyes with the castings.
7. Insert the new fasteners into the front spring eyes, not the castings.
8. Line up the top shock into the frame shock bracket, and secure using the original fasteners.
9. Line up and install the new fasteners that attach the lateral rod to the axle tower.
10. Tighten the front spring eyes, shock bolts, and lateral rod bolts at the axle towers and the frame.
11. Raise/support the main driveline. Fasten it to the midship bearing support bracket using new the new fasteners provided per D09-11946-000. Torque fasteners to 148 lbf-ft (200 N·m).
12. Raise the chassis and remove the dolly.
13. Rest the chassis on the jack stands for safety.

## Crane the Rear Drive Axle on to the Installation Dolly

### Installation of Rear Drive Axle into the Chassis

1. Chain the forward drive axle to the frame so the axle weight doesn't hang on the suspension and damage it.
2. Raise the chassis with an overhead hoist.
3. Roll the rear drive axle that is on the axle dolly under the chassis.
4. Extend the shocks out to the max position.
5. As the chassis is being lowered on to the axle, line up the suspension air bag bell studs into the rear spring.

## SF706 A-B

**Creation Date:** February 2026

**Revision Date:** April 2026

6. Install the airbag stud using the new nuts and washers and tighten.
7. Continue to lower the chassis on to the axle, lining up the front spring eyes with the spring hangers.
8. Insert the new fasteners from the hanger side into the front spring eyes.
9. Line up the top shock into the frame shock bracket, and secure using the original fasteners.
10. Line up and install the new fasteners that attach the lateral rod to the axle tower.
11. Tighten the front spring eyes, shock bolts, and lateral rod bolts at the axle towers and the frame.
12. Raise the chassis with an overhead hoist and set the chassis on jack stands under the forward drive hubs.
13. Install the new interaxle driveshaft using the new hardware supplied per D09-11936-001. Torque fasteners to 125 lbf-ft (170 N·m).

### Connecting the ABS / Plumbing to Axles

1. Connect the hoses to the hose fittings on the service and parking brake chambers.
2. Use the original clips or butterfly straps to route and connect the ABS harness at all four wheel ends.
3. While in this area of the truck, install the new suspension rod from the kit between the suspension-levelling valve and the forward drive axle.

### Tightening the Fasteners

1. Hand-tighten the axle U-bolt high nuts.
2. Tighten the nuts in a diagonal pattern 60 lbf-ft (81 N·m).
3. In the same diagonal pattern, tighten the nuts 200 lbf-ft (271 N·m).
4. Finally, tighten the nuts 420 to 500 lbf-ft (569 to 678 N·m).
5. Check the rear axle oil levels.

### Installation of the Rear Wheels and New Tires / Inflation and Monitoring System

1. Install the TPMS sensors on the rear wheel ends, if originally equipped.
2. Install the wheels and new tires.
3. Tighten the wheel lug nuts 500 lbf-ft (678 N·m).
4. Install all rear axle wheel flow below covers (hub wheel covers), if originally equipped.
5. Install the rear 1/4 fender aero fairings, if originally equipped.

SF706 A-B

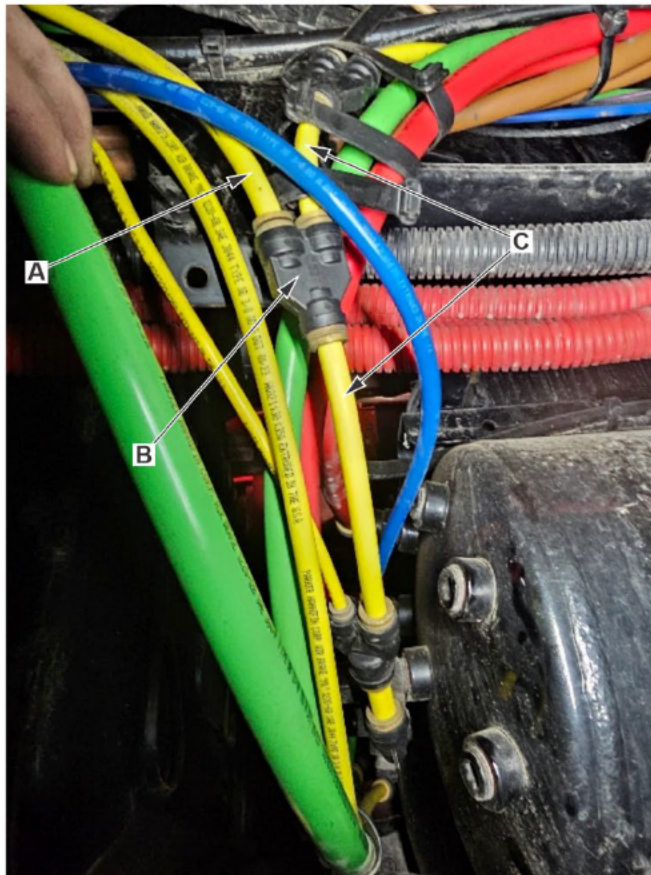
Creation Date: February 2026

Revision Date: April 2026

## Plumbing the Manual Inter-Axle Switch and Plumbing

NOTE: For vehicles equipped with Driver Control Differential Lock (DCDL), connect the existing DCDL lines to the new axles.

1. Drain all air from the system. Remove the plumbing from the solenoids above the rear axle, then remove the solenoids. Save the 1/4-inch white airline for later use (if this airline is not long enough, then a new airline may be needed for later use instead.)
2. Remove the yellow supply line for solenoids from the frame, then remove the Y-connector and two short yellow lines. Use a section of the removed yellow line to replace the Y-connector and two short yellow section lines. See **Fig. 9**.



01/23/2026

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A. Remove the supply line for solenoids from the frame.  
B. Remove the Y-connector.

C. Remove the two short yellow lines.

**Fig. 9, Y-Connector**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

3. Move the old temperature sensor and differential lock harnesses aside as far as possible.
4. Pull the dash panels including the ICU to route the dash harness and airline for the dash switch. See [Fig. 10](#).



08/12/2025

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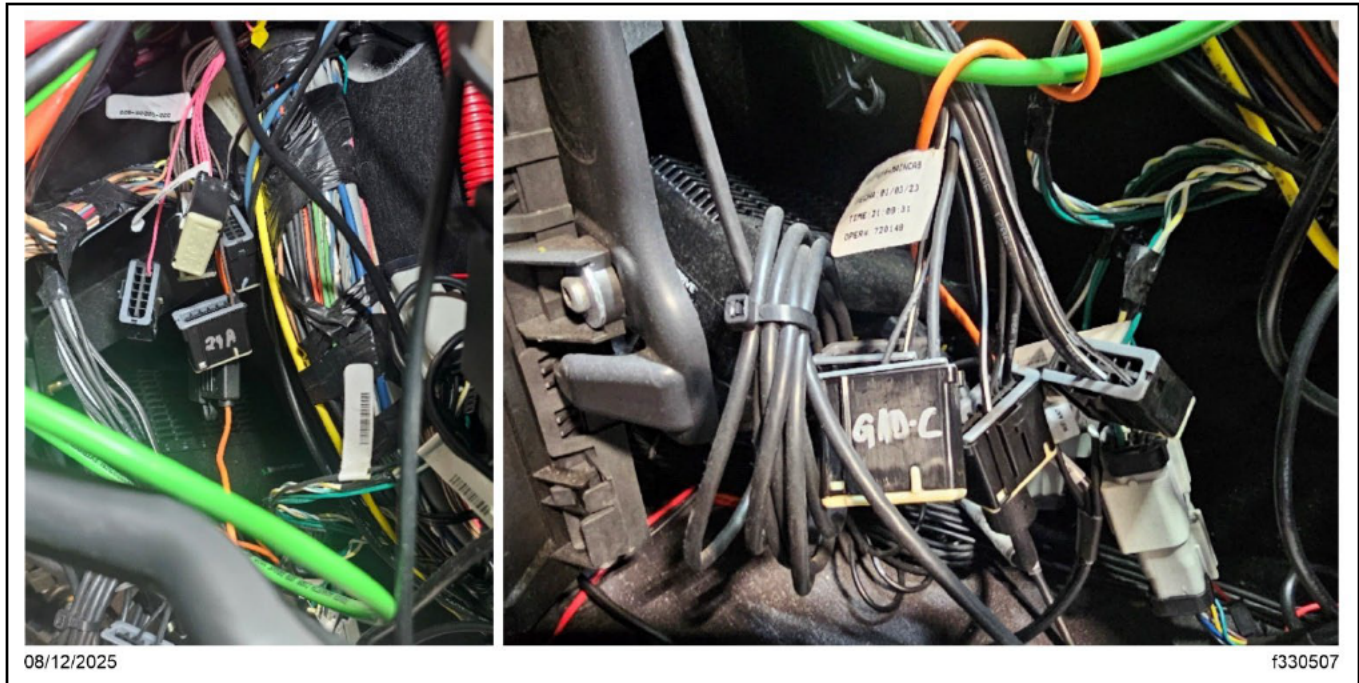
**Fig. 10, Dash Side Panel**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

5. Use wiring diagram **G06-92166-002** to connect the harness. The splice packs can be accessed from the tunnel on the passenger side. The splice pack locations are shown in **Fig. 11**.



**Fig. 11, Splice Packs**

6. The old axle harness, shown in drawing **G66-08370-001**, may be incorrectly routed. **Verify the circuit number** before removing the connector. The pins 30 and 43 are in BHM\_1A instead of BHB\_1B. Remove pin 30 from the dash side.
7. Cut out a new spot in the dash for the switch, then install the switch.
8. Use the 1/4-inch white airline saved earlier (if long enough), or use a new 1/4-inch white airline, and route it into the passthrough and then to the switch. Install the dash panels.
9. Use the 1/4-inch coupler from the kit and run about 25 feet of the 1/4-inch white airline to the differential lock.
10. The temperature sensor harness is routed differently due to new axles. Wrap the temperature sensor harness back to where they split and wrap 2 feet back on the axle lock sensor harness.
11. Put the split for the temperature sensor harness at the crossmember, right behind the batteries.
12. Run and secure both the harnesses to the split point, then wrap both the harnesses together. Two unused brackets may be found on the crossmember, use the brackets by flipping them around so the wires do not rub on the frame.
13. Run the harness to the front of vehicle and cut to length, there may be almost 20 ft of extra wire. Put new pins on wires and pin them per the wiring diagram. The connector locations are shown in **Fig. 11**.
14. Remove all the old axle harness pins from chassis side connectors, then install the plugs.

**SF706 A-B**

**Creation Date:** February 2026

**Revision Date:** April 2026

15. Start the engine and check for air leaks. Operate the inter-axle lock and DCDL (if equipped), checking for air leaks. Release the parking brakes and check for air leaks. Have an assistant apply the brake pedal and check for air leaks.
16. Perform the ride height calibration.
17. Verify proper functioning of the interaxle lock and differential lock (DCDL), if equipped.

## Alignment / Tracking and Spacing of the Rear Axle

1. Set the tracking and spacing of the rear axles.
2. Perform an axle alignment. Refer to the workshop manual.
3. Tighten the axle U-bolts 500 lbf·ft (678 N·m).
4. Tighten the front spring eye bolts after alignment.
5. Tighten the lateral rod bolts at the towers after alignment.
6. Set and calibrate the rear suspension.
7. After alignment & suspension set, perform a final check on the axle oil levels ensuring they are at the proper fill level.

## Painting

1. Paint the new axles and drivelines.
2. Paint the chassis at the reworked area—left-hand forward drive axle area and/or right-hand rear drive axle area.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

## Updating the Vehicle Parameters

### NOTICE

Parameters cannot be copied or downloaded from another truck. All parameters must be individually loaded to prevent corruption of the data and/or transfer.

1. Reconnect the batteries, connect to a battery charger, and turn the key switch to the ON position.
2. Connect an RP1210B-compliant vehicle diagnostic adaptor to the diagnostic connector on the vehicle.
3. Connect the other end of the adaptor to the laptop. Ensure the laptop is connected to a power source.
4. Open DiagnosticLink®.

**IMPORTANT:** Make sure that DiagnosticLink is updated to the latest version (8.23 SP1 at the time of publication or newer) before programming the vehicle.

- 4.1. Use your DTNA Portal credentials to connect DiagnosticLink to the server.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

- 4.2. Make sure the Electronic Control Unit (ECU) modules are connected and are visible in the 'Logged Connections' panel at the bottom-left of the window. See Fig. 12.
5. Go to the 'Program Device' tab, then select 'Download data from server.' See Fig. 12.

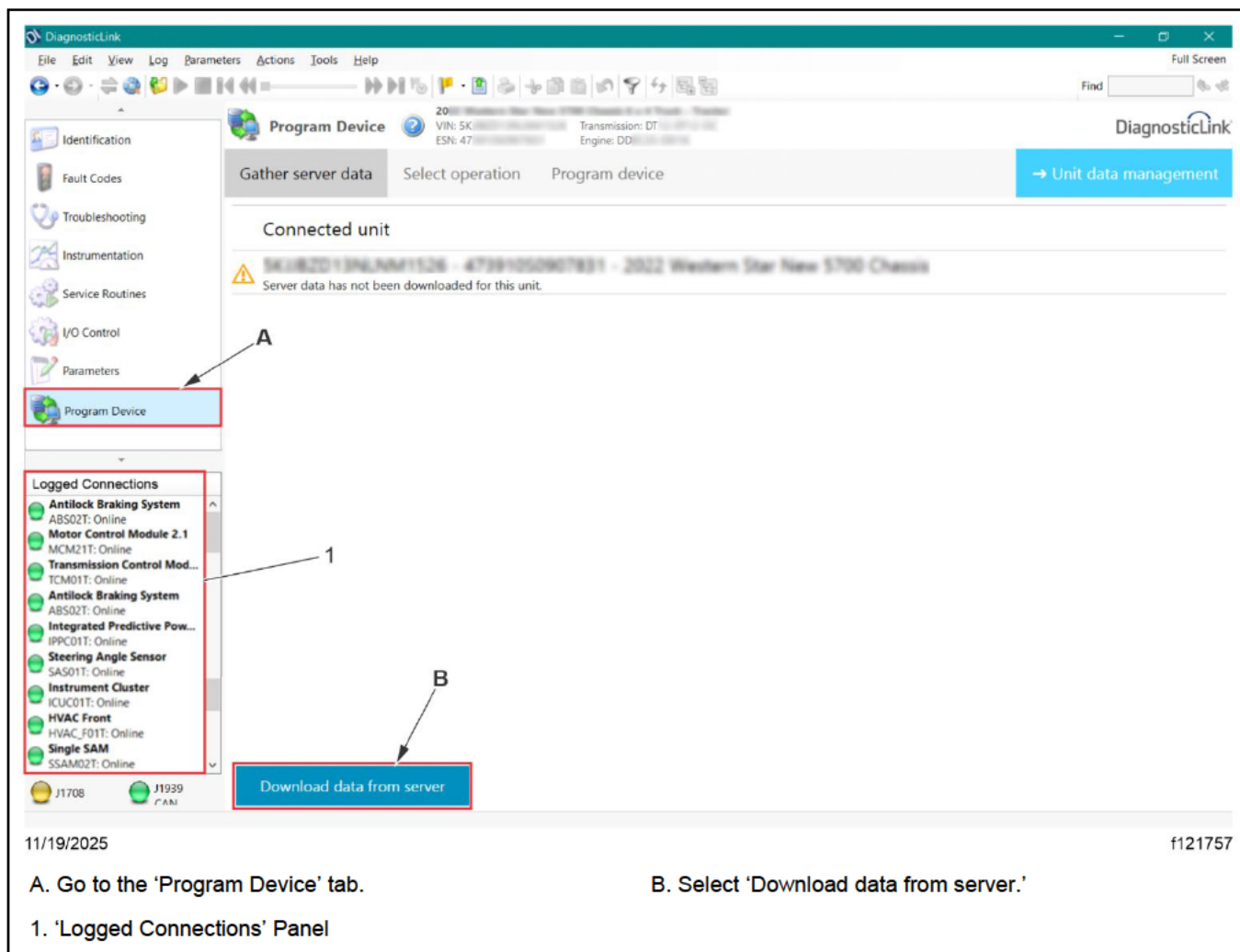


Fig. 12, Downloading the Data from the Server

**SF706 A-B**

**Creation Date: February 2026**

**Revision Date: April 2026**

6. Once the data is downloaded from the server, go to the 'Parameters' tab.
7. Adjust the rear axle ratio in the Common Powertrain Controller (CPC). See tag on axle to verify ratio.

NOTE: Step 8 is applicable only to vehicles equipped with ICUC modules. For vehicles with an ICC5 module, skip step 8 and go to step 9.

8. Select and expand the 'ICUC01T – Instrument Cluster' parameter folder.
  - 8.1. Select and expand the 'PID 0x43 (FTL config)' parameter sub-folder.
    - 8.1.1. Select the 'paramGaugePos3' parameter and set the parameter value to 'A0414473921-001 paramGaugePos3 Rear-Rear Axle Oil Temp.' See [Fig. 13](#).

The screenshot shows the DiagnosticLink Parameters window for a 2020 Freightliner M2 106. The interface includes a left-hand navigation pane with 'Parameters' selected, and a main table of parameters. The table has columns for Parameter, Part, Value, Units, Minimum, Maximum, and Description. The following table represents the data visible in the screenshot:

Parameter	Part	Value	Units	Minimum	Maximum	Description
ICUC01T - Instrument Cluster						
PID 0x43 (FTL config)	A0414479021-001					Default PID 0x4303 (DTNA)
paramGaugePos3	A0414473921-001					ePos3 Rear-Rear Axle Oil Temp. A0414473921-001 paramGaugePos3 Rear-Rear Axle Oil Temp.

Annotations A through E in the image correspond to the following steps:

- A. Go to the 'Parameters' tab.
- B. Select and expand the 'ICUC01T – Instrument Cluster' parameter folder.
- C. Select and expand the 'PID 0x43 (FTL config)' parameter sub-folder.
- D. Select the 'paramGaugePos3' parameter.
- E. Set the parameter value to 'A0414473921-001 paramGaugePos3 Rear-Rear Axle Oil Temp.'

**Fig. 13, Setting the paramGaugePos3 Parameter Value**





SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

NOTE: Step 9 is applicable only to vehicles equipped with ICC5 modules. For vehicles with an ICUC module, continue with step 10.

9. Select and expand the 'ICC501T – Instrument Cluster' parameter folder.

9.1. Select and expand the 'PID 0x43 FTL configuration' parameter sub-folder.

9.1.1. Select the 'PD\_AXOT\_GaugeRA\_AVL' parameter and set the parameter value to 'A0544479821-001 Axle Oil Temp RA available.' See Fig. 30.

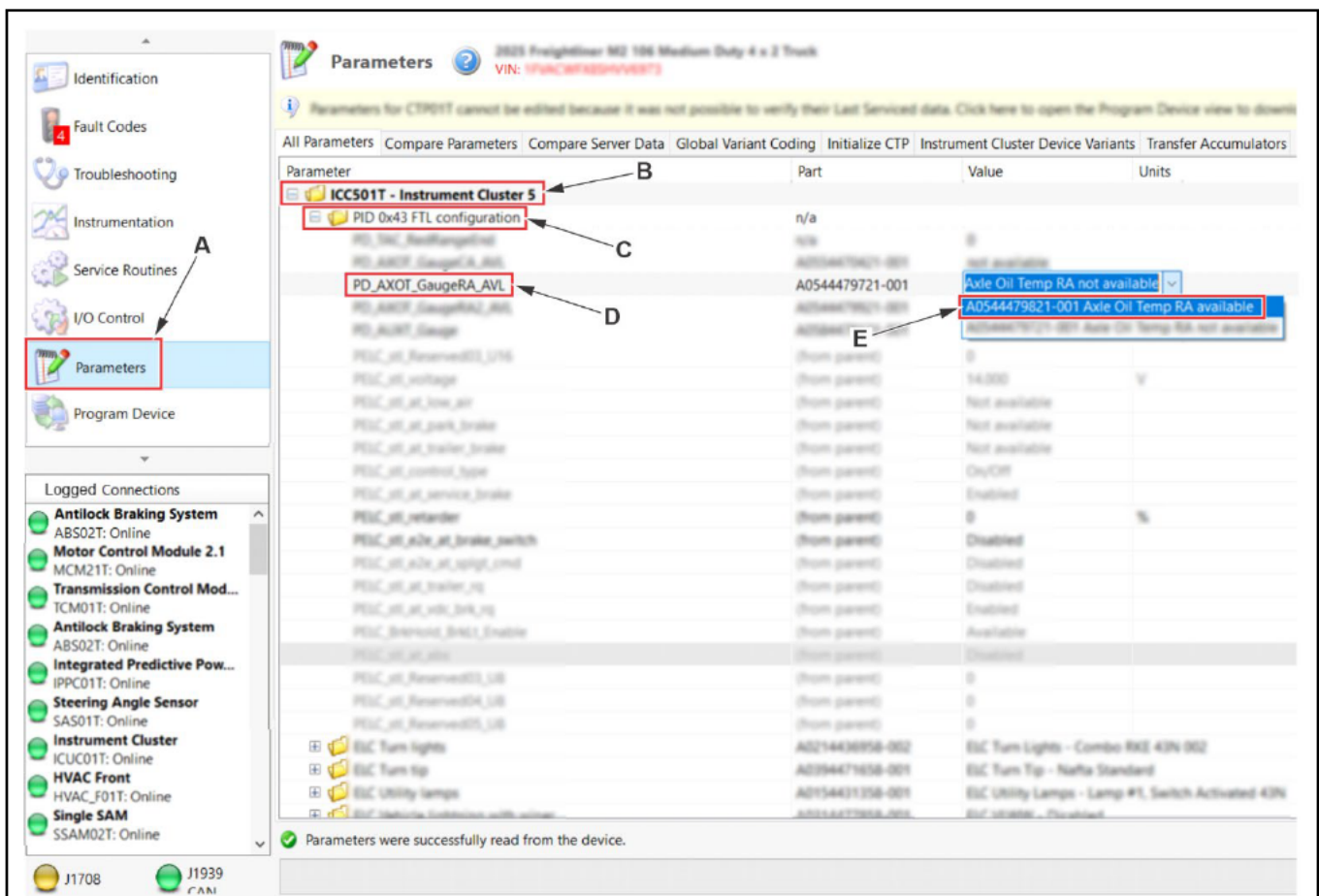


Fig. 30, Setting the PD\_AXOT\_GaugeRA\_AVL Parameter Value

- A. Go to the 'Parameters' tab.
- B. Select and expand the 'ICC501T – Instrument Cluster' parameter folder.
- C. Select and expand the 'PID 0x43 FTL configuration' parameter sub-folder.
- D. Select the 'PD\_AXOT\_GaugeRA\_AVL' parameter.
- E. Set the parameter value to 'A0544479821-001 Axle Oil Temp RA available.'

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

10. Select and expand the 'SSAM02T – Single SAM' parameter folder.

10.1. Select the 'ACS Interaxle Locks' parameter sub-folder and set the parameter value to 'A0224433658-001 ACS Interaxle Lock - Air Switch.' See Fig. 16.

Parameter	Value	Units	Minimum	Maximum
<b>SSAM02T - Single SAM</b>				
ACS Active Lubrication Service	A0224433658-001	ACS Active Lubr. No. ACS-ABS		
ACS Active Air Lock Detection				
ACS Active Lockup State				
ACS Axle Temperature	100			
ACS Axle Temperature Sensing	A0224433658-001	ACS Axle Temp. Sensor - No. ACS Temp. Sensor ABS-ABS		
ACS Drive Sensors	100			
ACS FWD Wheel Slide	A0224433658-001	ACS SW-ABS Set - Control, No. ABS Control		
ACS FWD Wheel Slide Control	100			
ACS Forward Differential Lock	100			
ACS IMB Config	A0224433658-001	ACS IMB Config - Default-ABS		
<b>ACS Interaxle Locks</b>	A0224433658-001			
ACS_INTERAXLE_LOCK_SteeringSpeed	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A2	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A3	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A4	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A5	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A6	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A7	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A8	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A9	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A10	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A11	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A12	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A13	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A14	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A15	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A16	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A17	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A18	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A19	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A20	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A21	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A22	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A23	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A24	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A25	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A26	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A27	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A28	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A29	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A30	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A31	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A32	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A33	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A34	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A35	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A36	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A37	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A38	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A39	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A40	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A41	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A42	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A43	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A44	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A45	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A46	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A47	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A48	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A49	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A50	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A51	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A52	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A53	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A54	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A55	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A56	From parent			
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ACS_INTERAXLE_LOCK_SteeringSpeed_A66	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A67	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A68	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A69	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A70	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A71	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A72	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A73	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A74	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A75	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A76	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A77	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A78	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A79	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A80	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A81	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A82	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A83	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A84	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A85	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A86	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A87	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A88	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A89	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A90	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A91	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A92	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A93	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A94	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A95	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A96	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A97	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A98	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A99	From parent			
ACS_INTERAXLE_LOCK_SteeringSpeed_A100	From parent			

11/18/2025 f121743

A. Select and expand the 'SSAM02T – Single SAM' parameter folder.  
 B. Select the 'ACS Interaxle Locks' parameter sub-folder.  
 C. Set the parameter value to 'A0224433658-001 ACS Interaxle Lock - Air Switch.'

Fig. 16, Setting the ACS Interaxle Locks Parameter Value

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

10.2. Expand the 'ACS Interaxle Locks' parameter sub-folder.

10.2.1. Select the 'PACS\_DiffLk\_IA\_MaxEngSpeed' parameter and set the parameter value to 'A0394573958-002 PACS DiffLk IA MaxEngSpeed = 65534 Gen 7.' See Fig. 17.

The screenshot shows a parameter configuration window with the following table structure:

Parameter	Value	Units	Minimum	Maximum
<b>SSAM02T - Single SAM</b>				
ACS Active Lubrication Management	A0394573958-001	ACS Active - No Active ACS		
ACS - ACS Air Lock Detection				
ACS ACS Locking State				
ACS Axle Temperature				
ACS Axle Temperature Sensing	A0394573958-002	ACS Axle Temp Sensor - No Axle Temp Sensor 43N/43Z		
ACS - Drive System				
ACS Drive Wheel Side	A0394573958-001	ACS Drive Wheel Side - Default, No Wheel Default		
ACS Drive Wheel Side Command				
ACS Forward Differential Lock				
ACS - IAB Config	A0394573958-002	ACS IAB Active Yes - Default 43N		
ACS Interaxle Locks	A0394573958-001	ACS Interaxle Locks - 43N/43Z		
<b>PACS_DiffLk_IA_MaxEngSpeed</b>	(from parent)	IAD 43N (65534, from parent)		mph
ACS_DiffLk_MaxEngSpeed_IA	(from parent)	A0394573958-001 ACS Interaxle Locks - 43N/43Z 43N/43Z (from parent)		
ACS_DiffLk_MaxEngSpeed_IA	(from parent)	A0394573958-002 ACS_DiffLk_IA_MaxEngSpeed = 40 Gen 7		
ACS_Lat_ResponseRate_43N	(from parent)	A0394573958-001 ACS_DiffLk_IA_MaxEngSpeed = 40 Gen 7		
ACS_DiffLk_IA_Basic	(from parent)	A0394573958-002 PACS DiffLk IA MaxEngSpeed = 65534 Gen 7		

Annotations in the image:

- A**: Points to the 'PACS\_DiffLk\_IA\_MaxEngSpeed' parameter row.
- B**: Points to the value dropdown menu for the selected parameter, which is set to 'A0394573958-002 PACS DiffLk IA MaxEngSpeed = 65534 Gen 7'.

11/18/2025 f121744

A. Select the 'PACS\_DiffLk\_IA\_MaxEngSpeed' parameter.  
B. Set the parameter value to 'A0394573958-002 PACS DiffLk IA MaxEngSpeed = 65534 Gen 7.'

Fig. 17, Setting the PACS\_DiffLk\_IA\_MaxEngSpeed Parameter Value

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

10.2.2. Select the 'PACS\_DiffLk\_MaxEnggSpeed\_IA' parameter and set the parameter value to 'A0224430358-001 PACS DiffLk MaxEnggSpeed IA = 65534.' See Fig. 18.

The screenshot shows a parameter configuration window with the following table structure:

Parameter	Value	Units	Minimum	Maximum
<b>SSAM02T - Single SAM</b>				
ACS Active Lubrication Management	A0194402038-001	ACS-ALM - No ALM-ALM		
ACS-ALM Air Lock Detection				
ACS-ALM Lockup State				
ACS-Axis Temperature	N/A			
ACS-Axis Temperature Sensing	A0194402038-002	ACS-Axis Temp Sense - No Axis Temp Sense-ALM-ALM		
ACS-Drive Sensing	N/A			
ACS-FR-Whisker-Mode	A0194402038-001	ACS-FR-Whisker-Mode - Disabled, No-Whisker-Mode		
ACS-FR-Whisker-Mode-Continued	N/A			
ACS-Forward Differential Lock	N/A			
ACS-IM-Config	A0194402038-002	ACS-IM-Config - Default-ALM		
ACS Interaxle Locks	A0194402038-001	ACS Interaxle Locks - Air Switch		
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	40720.9		mph
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	Air Switch (65534, from parent)		mph
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	A0224430358-001 ACS Interaxle Locks - Air Switch-ALM-ALM, from parent		
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	A0194402038-001 PACS_DiffLk_MaxEnggSpeed_IA = 40		
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	A0194402038-001 PACS_DiffLk_MaxEnggSpeed_IA = 40		
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	A0194402038-001 PACS_DiffLk_MaxEnggSpeed_IA = 40		
PACS_DiffLk_MaxEnggSpeed_IA	(from parent)	A0224430358-001 PACS DiffLk MaxEnggSpeed IA = 65534		

Annotations in the image:

- A**: Points to the 'PACS\_DiffLk\_MaxEnggSpeed\_IA' parameter name in the list.
- B**: Points to the selected value 'A0224430358-001 PACS DiffLk MaxEnggSpeed IA = 65534' in the dropdown menu.

11/18/2025 f121745

A. Select the 'PACS\_DiffLk\_MaxEnggSpeed\_IA' parameter.  
B. Set the parameter value to 'A0224430358-001 PACS DiffLk MaxEnggSpeed IA = 65534.'

Fig. 18, Setting the PACS\_DiffLk\_MaxEnggSpeed\_IA Parameter Value



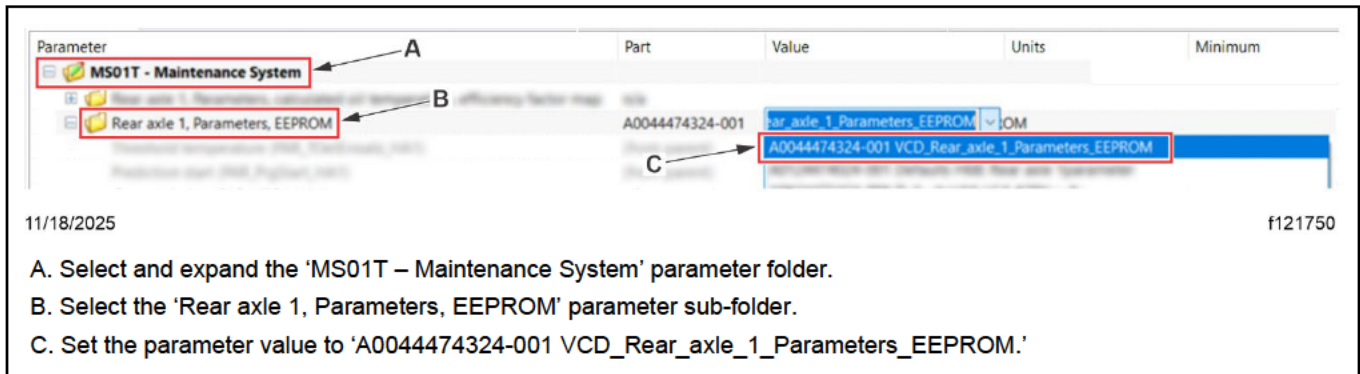
SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

11. Select and expand the 'MS01T – Maintenance System' parameter folder.

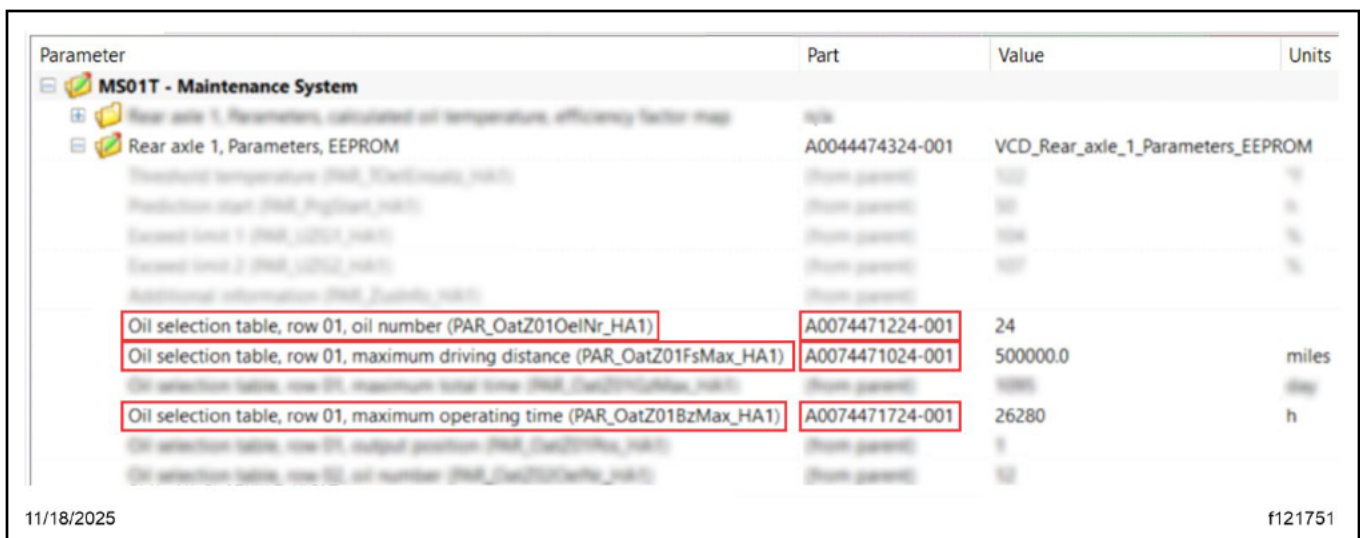
11.1. Select the 'Rear axle 1, Parameters, EEPROM' parameter sub-folder and set the parameter value to 'A0044474324-001 VCD\_Rear\_axle\_1\_Parameters\_EEPROM.' See Fig. 20.



**Fig. 20, Setting the Rear axle 1, Parameters, EEPROM Parameter Value**

11.2. Expand the 'Rear axle 1, Parameters, EEPROM' parameter sub-folder, and set the parameter values as listed below. See Fig. 21.

Parameter Name	Parameter Value
Oil selection table, row 01, oil number (PAR_OatZ01OelNr_HA1)	A0074471224-001 Oil Number Row01 HA1 No. 24
Oil selection table, row 01, maximum driving distance (PAR_OatZ01FsMax_HA1)	A0074471024-001 Oil Maximum Driving Distance Row 01 800tkm
Oil selection table, row 01, maximum operating time (PAR_OatZ01BzMax_HA1)	A0074471724-001 Oil Selection Table Row 01 Max Operating Time 3yr



**Fig. 21, Setting Parameter Values Within the Rear axle 1, Parameters, EEPROM Parameter Sub-Folder**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

- 11.3. Select the 'Rear axle 2, Parameters, EEPROM' parameter sub-folder and set the parameter value to 'A0044474424-001 VCD\_Rear\_axle\_2\_Parameters\_EEPROM.' See Fig. 22.

11/18/2025 f121752

A. Select the 'Rear axle 2, Parameters, EEPROM' parameter sub-folder.  
B. Set the parameter value to 'A0044474424-001 VCD\_Rear\_axle\_2\_Parameters\_EEPROM.'

**Fig. 22, Setting the Rear axle 2, Parameters, EEPROM Parameter Value**

- 11.4. Expand the 'Rear axle 2, Parameters, EEPROM' parameter sub-folder, and set the parameter values as listed below. See Fig. 23.

Parameter Name	Parameter Value
Oil selection table, row 01, oil number (PAR_OatZ01OelNr_HA2)	A0074471124-001 Oil Selection Table Row 01 Oil No. 24
Oil selection table, row 01, maximum driving distance (PAR_OatZ01FsMax_HA2)	A0074471324-001 Oil Selection Table Row 01 Max Driving Dist 80tkm
Oil selection table, row 01, maximum operating time (PAR_OatZ01BzMax_HA2)	A0074471624-001 Oil Selection Table Row 01 Max Operating Time 3yr

11/18/2025 f121753

**Fig. 23, Setting Parameter Values Within the Rear axle 2, Parameters, EEPROM Parameter Sub-Folder**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

- 11.5. Select and expand the 'Parameters, record 01, EEPROM' parameter sub-folder. Set the parameter values as listed below. See Fig. 24.

Parameter Name	Parameter Value
Channel activation (PAR_KanAktiv_HA1)	A0054470024-001 Chanel activation HA1 ON
Quality factor, mechanical (PAR_QfMech_HA1)	A0044479924-001 Quality factor, mechanical (PAR_QfMech_HA1)
Oil number, selected (PAR_OeINr_HA1)	A0084473424-001 Oil number, selected (PAR_OeINr_HA1) No. 24 - 235.31
Channel activation (PAR_KanAktiv_HA2)	A0044474824-001 Chanel activation HA2 ON
Quality factor, mechanical (PAR_QfMech_HA2)	A0074472524-001 Quality factor, mechanical - Par_QfMech_HA2
Oil number, selected (PAR_OeINr_HA2)	A0074470024-001 Oil Number Selected HA2 Nr 24

Parameter	Part	Value
<b>MS01T - Maintenance System</b>		
<b>Parameters, record 01, EEPROM</b> ← A	n/a	
Channel activation (PAR_KanAktiv_HA1)	A0054470024-001	yes
Quality factor, mechanical (PAR_QfMech_HA1)	A0044479924-001	60
Oil number, selected (PAR_OeINr_HA1)	A0084473424-001	24
Channel activation (PAR_KanAktiv_HA2)	A0044474824-001	yes
Quality factor, mechanical (PAR_QfMech_HA2)	A0074472524-001	60
Oil number, selected (PAR_OeINr_HA2)	A0074470024-001	24

11/18/2025 f121754

A. Select and expand the 'Parameters, record 01, EEPROM' parameter sub-folder.

**Fig. 24, Setting Parameter Values Within the Parameters, record 01, EEPROM Parameter Sub-Folder**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

12. Select and expand the 'XMC02T - Extension Module Cabin' parameter folder.
  - 12.1. Select and expand the 'Advanced 6x4: Controls' parameter sub-folder.
    - 12.1.1. Select the 'PAFE\_AdvAxle\_Enable' parameter and set the parameter value to 'A0294474446-001 PAFE.AdvAxle.Enable = Disable.' See [Fig. 25](#).

The screenshot shows the 'Parameters' tool interface. At the top, there are navigation tabs: 'All Parameters', 'Compare Configuration', 'Compare Parameters', 'Compare Server Data', 'FSC Logic Block Viewer', 'Group Coding Strings', and 'Migration Plausibility'. Below these is a table with columns: 'Parameter', 'Part', 'Value', and 'Units'. The table is expanded to show a tree structure. A red box labeled 'A' points to the 'XMC02T - Extension Module Cabin' folder. A red box labeled 'B' points to the 'Advanced 6x4: Controls' sub-folder. A red box labeled 'C' points to the 'PAFE\_AdvAxle\_Enable' parameter row. A red box labeled 'D' points to the value 'A0294474446-001 PAFE.AdvAxle.Enable = Disable' in the 'Value' column. The date '03/27/2026' is visible in the bottom left, and the code 'f121767' is in the bottom right.

A. Select and expand the 'XMC02T - Extension Module Cabin' parameter folder.

B. Select and expand the 'Advanced 6x4: Controls' parameter sub-folder.

C. Select the 'PAFE\_AdvAxle\_Enable' parameter.

D. Set the parameter value to 'A0294474446-001 PAFE.AdvAxle.Enable = Disable.'

**Fig. 25, Setting the PAFE\_AdvAxle\_Enable Parameter Value**

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

13. Select the 'Send' button to write the parameter changes to the vehicle. A window opens asking to confirm the parameter changes. Select 'OK.' See Fig. 26.

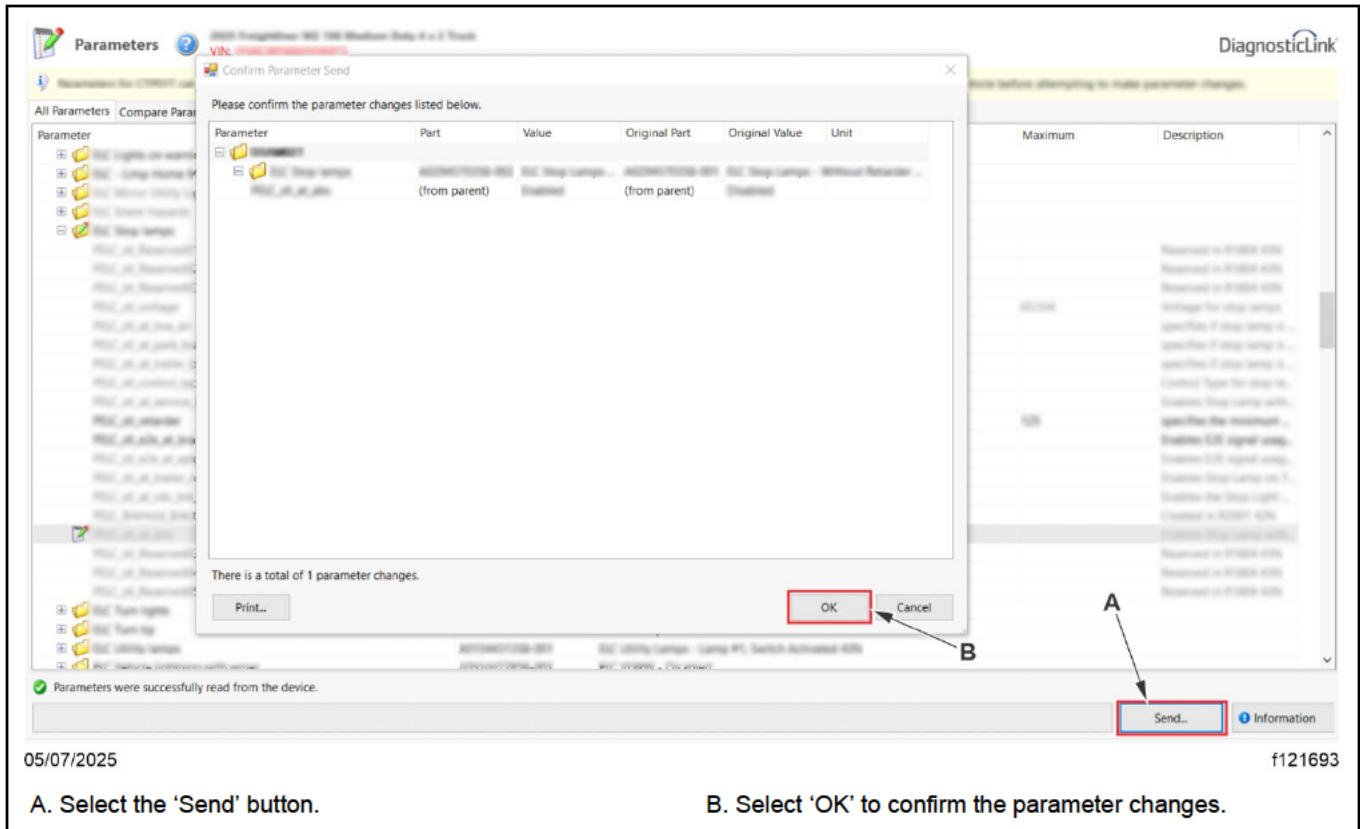


Fig. 26, Writing the Parameter Changes to the Vehicle

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

14. Once the parameter change is complete, go to the 'Program Device' tab. Select 'Unit data management' at the top-right of the window. See Fig. 27.

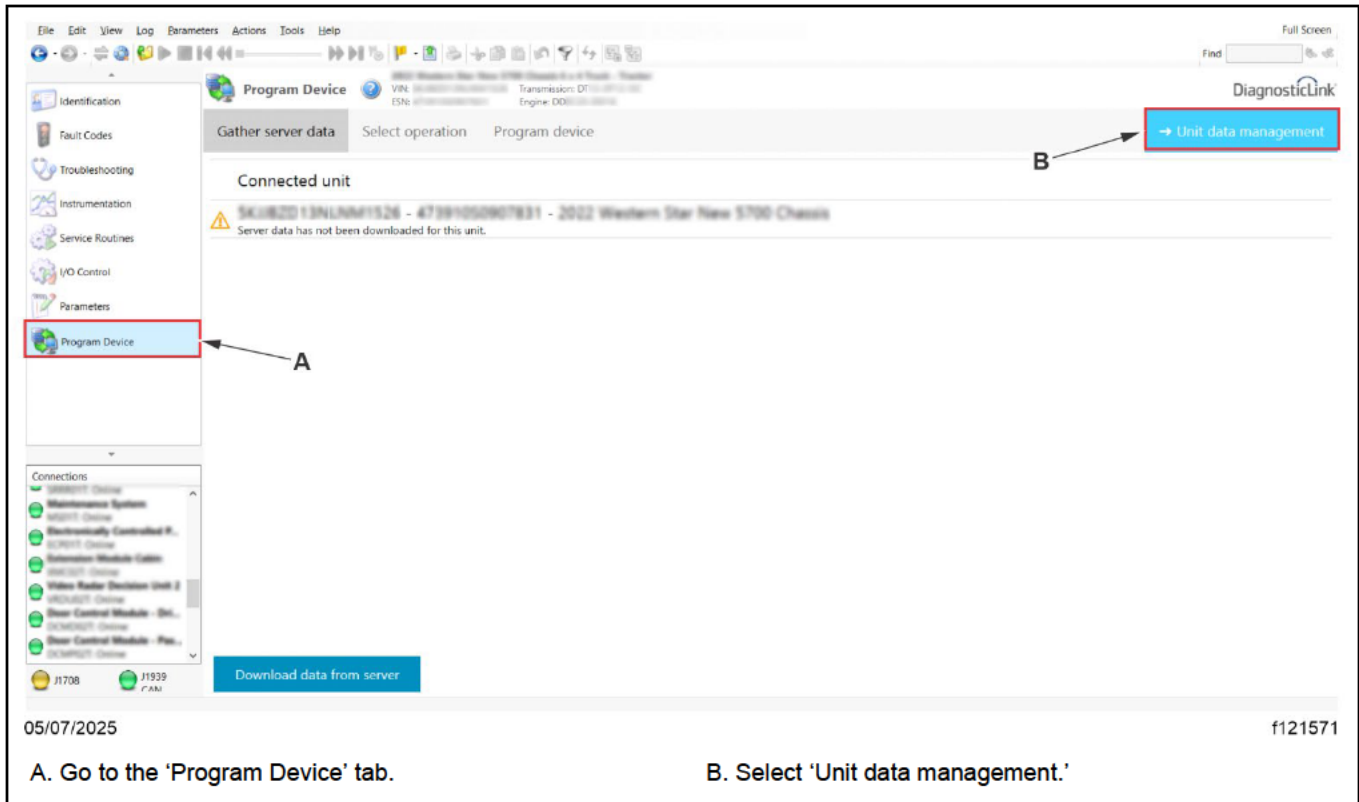


Fig. 27, Navigating to the Unit Data Management Screen



SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

**For Global Annotation:**

**SF706-A Parts List:**

Part #	Part Description	Qty Per Vin
A66-07480-300	HARN-AXLE IND,OL,AXLE,TANDEM	1
A66-23214-000	HARN,JUMPER,MISC	5
A66-07060-000	HARN-AXLE_LKI,DASH,OL,IAD,NFD	1
A66-04584-300	HARN-AXLE_LKI,AXLE,OL,IAD,125	1
R16-21602-000	SEAT-AXLE,A/L,4 DEG,TALL	4
16-19878-000	SPCR-ALNR,0.25,6.5X4.0,5/8OD	2
11-23853-002	U BOLT,7/8-14,	8
23-00461-007	NUT-HEX,HI,7/8	16
23-09114-005	WASHER-HRDN,0.	16
23-14283-120	BOLT-HEX,PC10.9,PO,M16X1.5X120	8
16-14494-001	LINK KIT,5/16,290H	1
09-12088-004	SUPT 147.6MM 3 DEG	1
A06-92188-000	HARN-AXLE_LKD,DASH,OL,MUX,1SW,	1
A66-04202-300	HARN-AXLE_LKD,AXLE,OL,1FB,FWD,	1
23-14775-001	CLAMP-CABLE,BATT,DUAL,4/0,4/0	10
23-11012-125	SCREW-FLG,HEXAGON,1/2-13,ZN	1
A12-26539-001	VALVE-DASH,INTERAXLE,TANDEMY	1
23-14393-000	UNION-1/4 PTC X 1/4 PTC	1
12-15220-000	JUMPER,SUPPLY LINE,-04,39.5MM	1
23-14415-001	PLUG-1/4 PUSH TO CONNECT	1
PH VS279NTA 4 4	ELB-90,1/4 CMPR X 1/4 MPT	1
66-16721-001	BRKT-PASS THRU,FW,FPT	3
66-17177-000	GSKT-CONN,PASS-THRU,FW	3
16-22897-000	PLT-BKG,CONT ROD,DRH	1
16-21881-000	PLT-BKG,CONT ROD,DRH	1
23-09114-000	WASHER-HRDN,0.69X1.31X.177,ZN	26
23-14283-050	BOLT-HEX,PC10.9,PO,M16X1.5X50	6
23-14283-120	BOLT-HEX,PC10.9,PO,M16X1.5X120	2
23-14283-140	BOLT-HEX,PC10.9,PO,M16X1.5X140	2
23-14451-116	NUT-HEX,LKG,VLH BLU,M16X1.5	14
23-09446-500	SCREW-CAP,HEX,3/4-10,5 IN,GR8,ZN	8
23-09114-004	WASHER-FLAT,STEEL,HARDENED,3/4 IN	16
23-14450-112	NUT-HEX,LKG,VLH,3/4-10	8
23-13112-112	NUT-HEX,LOCKING,M12-1.5,ZINC ALUM,CL10	4

(SF706-A Parts List Continued on Next Page)

SF706 A-B

**Creation Date:** February 2026

**Revision Date:** April 2026

**Continued:** SF706-A Parts List

Part #	Part Description	Qty Per Vin	Note
23-09114-017	WASHER-HRDN,0.53X1.38X	4	
23-12891-175	SCREW-SOCKETHEAD 12PT,1/2-20,1 3/4IN	8	
TDA KT35BNW	RPL35 HDWE KIT	2	
23-09114-005	WASHER-FLAT,STEEL,HARDENED,7/8 IN	16	
DDE N910105012007	SCREW	2	
23-13892-012	NUT-HEX,FLANGE,LOCKING,M12-1.5,ZN AL	2	
PH VS159F8 6	COUPLING	4	
PH 159F 6 6	FLARED 45 MALE ELBOW	4	
PH VS48F6 6	COUPLING	4	
16-19878-000	SPACER-FR SUSP,ALNR,0.25,6.5X4.0,5/8OD	2	
A09-50034-430	DRIVELINE-RPL35-FLG MAIN 43.0"	1	Vehicle-Specific
A09-50034-470	DRIVELINE-RPL35-FLG MAIN 47.0"	1	Vehicle-Specific
A09-50034-622	DRIVELINE-RPL35-FLG MAIN 62.5"	1	Vehicle-Specific
Various	Axle Set	1	Vehicle-Specific

See next two pages for SF706-B parts list.

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

**For Global Annotation:**

**SF706-B Parts List:**

Part #	Part Description	Qty Per Vin
A66-07480-300	HARN-AXLE IND,OL,AXLE,TANDEM	1
A66-23214-000	HARN,JUMPER,MISC	5
AI 1 967325 3	PLUG-4CAV 2BLKD,SCC25,AI ,BK	1
AI 828922 1	SEAL-CAV PLUG,1.5S,2.5S,JPTAS,	2
A66-07060-000	HARN-AXLE_LKI,DASH,OL,IAD,NFD	1
A66-04584-300	HARN-AXLE_LKI,AXLE,OL,IAD,125	1
22-72760-032	38N,1160,42.5,6/7/8,5/16,LH	1
22-72760-033	38N,1160,42.5,6/7/8,5/16,RH	1
TDA 3215Z2782	ANC PLT,1A4,0895A1805200X	2
TDA 3215A2783	ANC PLT,1A4,0895B1805200X	2
R16-21602-000	SEAT-AXLE,A/L,4 DEG,TALL	4
16-19878-000	SPCR-ALNR,0.25,6.5X4.0,5/8OD	2
11-23853-002	U BOLT,7/8-14,	8
23-00461-007	NUT-HEX,HI,7/8	16
23-09114-005	WASHER-HRDN,0.	16
23-14283-120	BOLT-HEX,PC10.9,PO,M16X1.5X120	8
16-14494-001	LINK KIT,5/16,290H	1
09-12088-004	SUPT 147.6MM 3 DEG	1
23-09114-003	WASHER-HRDN,0.53X1.06X.177,ZN	6
23-13112-112	NUT-HEX,LKG,M12-1.5,ZN AL,PC10	3
23-14281-040	BOLT-HEX,PC10.9,PO,M12X1.5X40	3
23-11012-125	SCREW-FLG,HEXAGON,1/2-13,ZN	1
66-16721-001	BRKT-PASS THRU,FW,FPT	3
66-17177-000	GSKT-CONN,PASS-THRU,FW	3
A12-26539-001	VALVE-DASH,INTERAXLE,TANDEM	1
23-14393-000	UNION-1/4 PTC X 1/4 PTC	1
16-22897-000	PLT-BKG,CONT ROD,DRH	1
16-21881-000	PLT-BKG,CONT ROD,DRH	1
23-09114-000	WASHER-HRDN,0.69X1.31X.177,ZN	26
23-14283-050	BOLT-HEX,PC10.9,PO,M16X1.5X50	6
23-14283-120	BOLT-HEX,PC10.9,PO,M16X1.5X120	2
23-14283-140	BOLT-HEX,PC10.9,PO,M16X1.5X140	2
23-14451-116	NUT-HEX,LKG,VLH BLU,M16X1.5	14

(SF706-B Parts List Continued on Next Page)

SF706 A-B

Creation Date: February 2026

Revision Date: April 2026

**Continued:** SF706-B Parts List

Part #	Part Description	Qty Per Vin	Note
23-09446-500	SCREW-CAP,HEX,3/4-10,5 IN,GR8,ZN	8	
23-09114-004	WASHER-FLAT,STEEL,HARDENED,3/4 IN	16	
23-14450-112	NUT-HEX,LKG,VLH,3/4-10	8	
23-13112-112	NUT-HEX,LOCKING,M12-1.5,ZINC ALUM,CL10	4	
23-09114-017	WASHER-HRDN,0.53X1.38X	4	
23-12891-175	SCREW-SOCKETHEAD 12PT,1/2-20,1 3/4IN	8	
TDA KT35BNW	RPL35 HDWE KIT	2	
23-09114-005	WASHER-FLAT,STEEL,HARDENED,7/8 IN	16	
DDE N910105012007	SCREW	2	
23-13892-012	NUT-HEX,FLANGE,LOCKING,M12-1.5,ZN AL	2	
PH VS159F8 6	COUPLING	4	
PH 159F 6 6	FLARED 45 MALE ELBOW	4	
PH VS48F6 6	COUPLING	4	
16-19878-000	SPACER-FR SUSP,ALNR,0.25,6.5X4.0,5/8OD	2	
A09-50034-410	DRIVELINE-RPL35-FLG MAIN 41.0"	1	Vehicle-Specific
A09-50034-430	DRIVELINE-RPL35-FLG MAIN 43.0"	1	Vehicle-Specific
A09-50034-450	DRIVELINE-RPL35-FLG MAIN 45.0"	1	Vehicle-Specific
A09-50034-470	DRIVELINE-RPL35-FLG MAIN 47.0"	1	Vehicle-Specific
Various	Axle Set	1	Vehicle-Specific