

**ATTENTION: Dealer Principal, Warranty Manager, Service Manager, Parts Manager**  
Freightliner Dealers – U.S. and Canada  
Western Star and Sterling Dealers – U.S. and Canada  
FCCC Dealers – U.S. and Canada  
Thomas Built Buses Dealers – U.S. and Canada  
Direct Warranty Customers – U.S. and Canada  
Detroit Diesel Distributors  
Export Distributors

Daimler Trucks North America LLC

**WARRANTY CAMPAIGNS DEPARTMENT**

P.O. Box 4090

800-547-0712

Portland, Oregon 97208-4090

If you have questions about this Letter, please submit your inquiry on the Web using the [WSC Link on DTNAConnect](#)

REF #: ICI20-027

Effective: 09/02/2020

Release: 09/02/2020

**SUBJECT: FL855 – Limited Parts Availability**

This letter is to inform you that due to initial kit availability, the vehicle population in this Recall Campaign will be released in phases over a planned six-month period. Units in each phase will be prioritized based on vehicle age, miles, and corrosion factors. Please wait to perform the repair until the vehicles' phase is released.

**DO NOT OVERSTOCK KITS, AND DO NOT PERFORM ON VEHICLES THAT ARE NOT YET ACTIVE IN OWL.**

You must confirm a vehicle displays FL855 on the OWL Coverage Info screen before proceeding.

If you have questions or need further information, contact the Warranty Campaigns Department by submitting an inquiry through the WSC Link on DTNAConnect.

*The information contained in this letter supercedes and supplements any related policies and procedures in any previously released bulletins, the Warranty Manual, and/or previously released letters. Failure to read or distribute this letter will not exempt addressees from compliance with the information contained herein.*

September 2020  
FL855A  
NHTSA #20V-390  
Transport Canada #2020-305

## **Subject: Braking System Platform Single Modulator Valves**

**Models Affected: Specific Model Year 2017-2021 Freightliner  
Cascadia vehicles manufactured March 8, 2016, through  
June 25, 2020.**

### **General Information**

**IMPORTANT:** Due to parts availability, this campaign will be released in phases. The phase will be determined based on vehicle age, vehicle miles, and corrosion factors. You must confirm a vehicle displays FL855 on the OWL Coverage Info screen before proceeding.

**PLEASE DO NOT OVERSTOCK KITS, AND DO NOT PERFORM ON VEHICLES THAT ARE NOT YET ACTIVE IN OWL.**

Daimler Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on the vehicles mentioned above.

On certain vehicles, chemical corrosion could affect the functionality of the single brake modulator valve, which may result in slow release timing of brakes on the affected side. A slow release of the brake on one side during an active brake request (i.e. automatic braking events), could lead to a brake pull resulting in a sudden change in vehicle direction due to uneven braking on the front axle, increasing the risk of a motor vehicle crash. Regular service brakes are not affected.

The front left and right single brake modulator valves will be replaced and spacers added.

There are approximately 187,646 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.

### **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**

Replacement parts are now available and can be obtained by ordering the kit number listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL855, a list of the customers and vehicle identification numbers will be available on DTNAConnect. Please refer to this list when ordering parts for this recall.

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**Table 1** - Replacement Parts for FL855

**IMPORTANT:** Due to parts availability ,this campaign will be released in phases. The phase will be determined based on vehicle age, vehicle miles, and corrosion factors. You must confirm a vehicle displays FL855 on the OWL Coverage Info screen before proceeding.

**PLEASE DO NOT OVERSTOCK KITS, AND DO NOT PERFORM ON VEHICLES THAT ARE NOT YET ACTIVE IN OWL.**

Campaign Number	Kit Number	Part Description	Part Number	Qty. per Kit
FL855A	25-FL855-001	SOLENOID,ABS MODULATOR VALVE, PAINTED	25-FL855-000	2 ea
		SPACER-AL,.375 ID.75 O	23-12240-025	4 ea
		SCREW-HEX FLANGE,M8X1.25X90	23-14064-090	4 ea
		WASHER-FLAT,STEEL,HARDENED,3/8 IN	23-09114-002	4 ea
		NUT	N913023 008003	4 ea
	N/A	BLANK COMPLETION STICKER	WAR260	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
FL855A	Replace front brake modulator valves	1.3	996-R107A	12-Repair Recall/Campaign

**Table 2**

**IMPORTANT:** When the Recall has been completed, locate the base completion label in the appropriate location on the vehicle, and attach the red completion sticker provided in the recall kit (Form WAR260). 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 recall kit is not required or there is no completion sticker in the kit, write the recall 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 **Recall Campaign**.
- In the Campaign field, enter the campaign number and appropriate condition code (**FL855-A**).
- In the Primary Failed Part Number field, enter **25-FL855-000**.
- In the Parts field, enter the kit number as shown in the Replacement Parts Table.
- In the Labor field, first enter the appropriate SRT from the Labor Allowance Table. Administrative time will be included automatically as SRT 939-6010A for 0.3 hours.

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- 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 Recall Pre-Approval Request for a decision.
  - Include the approved amount on your 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.
  - Reimburse the customer the appropriate amount.

**IMPORTANT:** OWL must be viewed prior to performing the recall 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 Web inquiry at [DTNACconnect.com](http://DTNACconnect.com) / WSC, if you have any questions or need additional information. Export distributors, submit a Web 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.

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.

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## Copy of Notice to Owners in Phase One

### Subject: Braking System Platform Single Modulator Valves

**For the Notice to U.S. Customers:** This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. **For the Notice to Canadian Customers:** 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 Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on specific Model Year 2017-2021 Freightliner Cascadia vehicles manufactured March 8, 2016, through June 25, 2020.

On certain vehicles, chemical corrosion could affect the functionality of the single brake modulator valve, which may result in slow release timing of brakes on the affected side. A slow release of the brake on one side during an active brake request (i.e. automatic braking events), could lead to a brake pull resulting in a sudden change in vehicle direction due to uneven braking on the front axle, increasing the risk of a motor vehicle crash. Regular service brakes are not affected.

The front left and right single brake modulator valves will be replaced and spacers added. Repairs will be performed by Daimler Trucks North America authorized service facilities.

This recall is expected to begin on **September 21, 2020**. At that time, please contact an authorized Daimler Trucks North America dealer to arrange to have the Recall performed and to ensure that parts are available at the dealership. To locate an authorized dealer, go to [www.Daimler-TrucksNorthAmerica.com](http://www.Daimler-TrucksNorthAmerica.com). On the menu tab, select "Contact," scroll down to "Find a Dealer," and select the appropriate brand. The Recall will take approximately two hours and will be performed at no charge to you. You may also confirm your vehicle's involvement in this recall at this URL: <https://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 the Recall 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 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, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address

[DTNA.Warranty.Campaigns@Daimler.com](mailto:DTNA.Warranty.Campaigns@Daimler.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 to <http://www.safercar.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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Interim Recall Notice

## Copy of Notice to Owners in Remaining Phases

### Subject: Braking System Platform Single Modulator Valves

**For the Notice to U.S. Customers:** This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act. **For the Notice to Canadian Customers:** 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 Trucks North America LLC (DTNA), on behalf of its Freightliner Trucks Division, has decided that a defect that relates to motor vehicle safety exists on specific Model Year 2017-2021 Freightliner Cascadia vehicles manufactured March 8, 2016, through June 25, 2020.

On certain vehicles, chemical corrosion could affect the functionality of the single brake modulator valve, which may result in slow release timing of brakes on the affected side. A slow release of the brake on one side during an active brake request (i.e. automatic braking events), could lead to a brake pull resulting in a sudden change in vehicle direction due to uneven braking on the front axle, increasing the risk of a motor vehicle crash. Regular service brakes are not affected.

This is the first of two notices you will receive regarding this subject. This letter is to inform you of an upcoming Recall to correct the issue noted above. Daimler Trucks is currently securing replacement parts. **There is no action for you to take at this time.**

The second notice will inform you when the final remedy is available. **When you receive the second notice,** please contact your authorized Daimler Trucks North America dealer to schedule the Recall for your vehicle.

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 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, 7:00 a.m. to 4:00 p.m. Pacific Time, Monday through Friday, e-mail address DTNA.Warranty.Campaigns@Daimler.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 to <http://www.safercar.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.

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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 Trucks North America LLC 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 Trucks North America LLC dealer.

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

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## Work Instructions

### Subject: Braking System Platform Single Modulator Valves

**Models Affected: Specific Model Year 2017-2021 Freightliner  
Cascadia vehicles manufactured March 8, 2016, through  
June 25, 2020.**

**IMPORTANT:** Due to parts availability, this campaign will be released in phases. The phase will be determined based on vehicle age, vehicle miles, and corrosion factors. You must confirm a vehicle displays FL855 on the OWL Coverage Info screen before proceeding.

**PLEASE DO NOT OVERSTOCK KITS, AND DO NOT PERFORM ON VEHICLES THAT ARE NOT YET ACTIVE IN OWL.**

### Front Modulator Valve Replacement

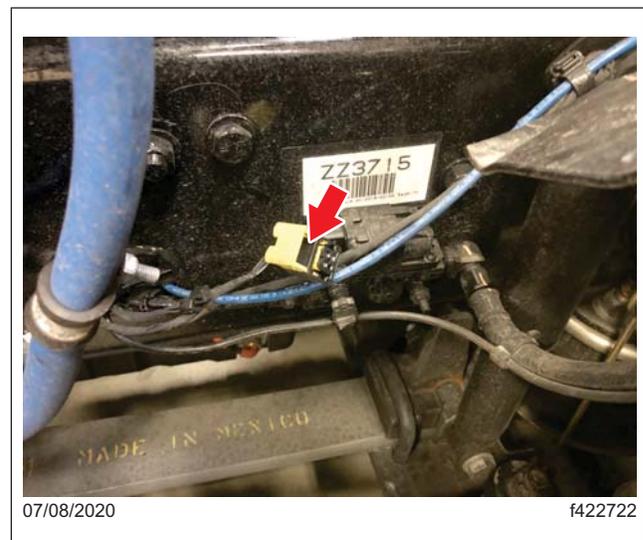
1. Check the base label (Form WAR259) for a completion sticker for FL855 (Form WAR260) indicating this work has been done. The base label is usually located on the passenger-side door, about 12 inches (30 cm) below the door latch. If a sticker is present for FL855, no work is needed. If there is no sticker, 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.
3. Open the hood.

NOTE: Both the left and right modulator valves must be replaced.

4. Locate the modulator valve on the left-front frame rail behind the wheel. See [Fig. 1](#).
5. Using the flat end of a screwdriver, disconnect the electrical modulator valve connector on the front side of the frame rail above the front axle. See [Fig. 2](#).



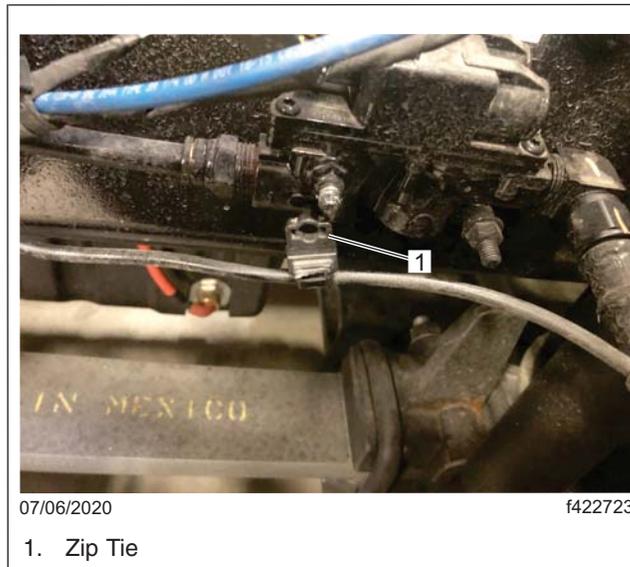
**Fig. 1, Locating the Modulator Valve**



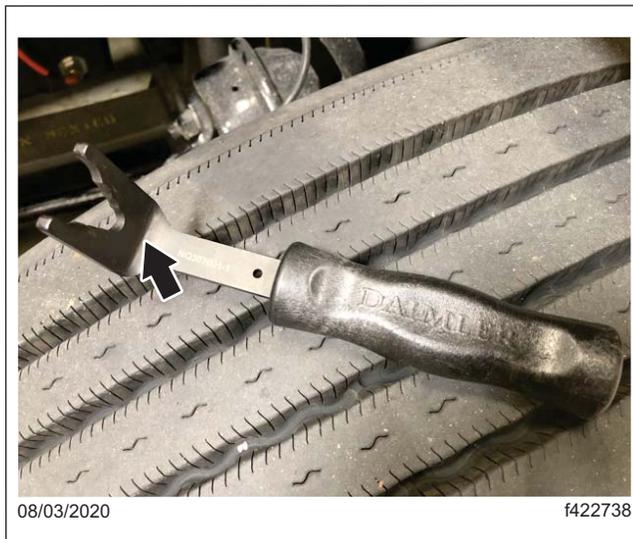
**Fig. 2, Electrical Connector**

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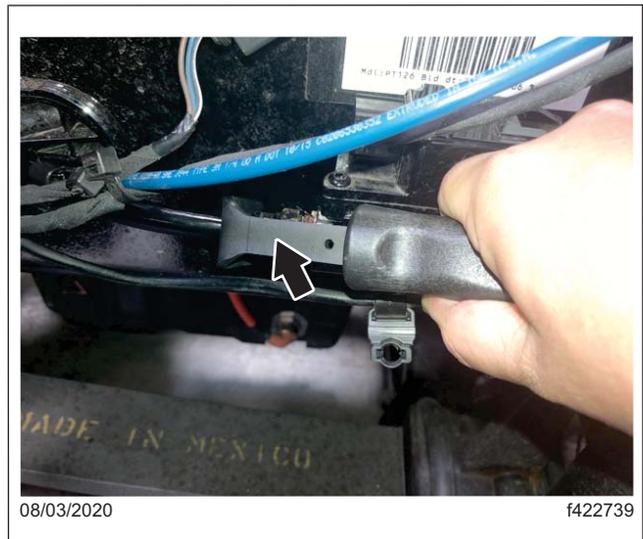
6. Remove the ABS zip tie from the modulator mounting bolt. See **Fig. 3**.
7. Using special tool NQ307001-1 in kit number NQ307001, disconnect the plastic air line from the modulator valve. See **Fig. 4** and **Fig. 5**.



**Fig. 3, ABS Zip Tie**



**Fig. 4, Special Tool NQ307001-1**



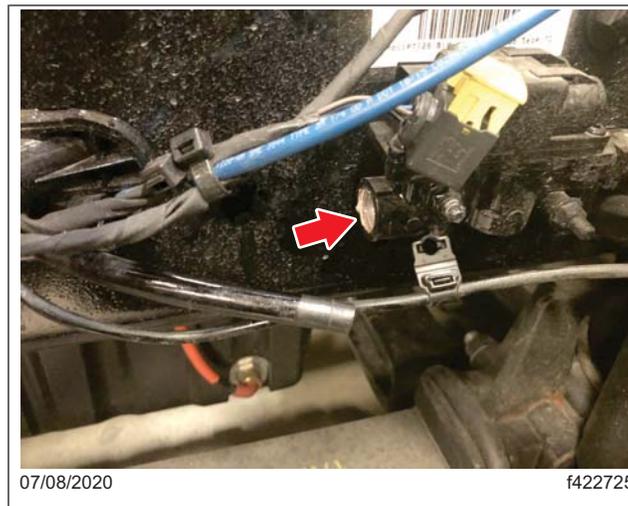
**Fig. 5, Disconnecting the Plastic Air Line**

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8. Using a 7/8 inch wrench, remove the quick connect fitting from the modulator. See [Fig. 6](#).
9. Using a 7/8 inch wrench, remove the threaded air line that goes from the modulator to the brake chamber. See [Fig. 7](#).

NOTE: The fitting hits the frame rail when it is turned and cannot be removed. However, it is easier to loosen the fitting while the modulator is attached to the vehicle.

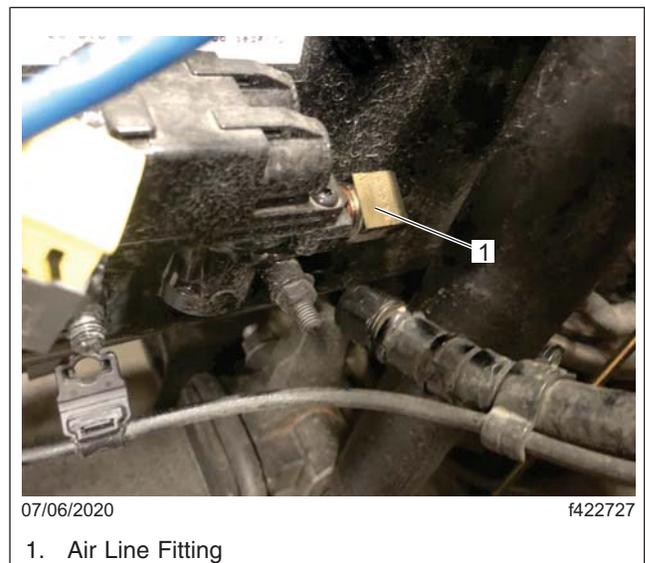
10. Using a 23 mm wrench, loosen the brake chamber air line fitting on the modulator valve. See [Fig. 8](#).



**Fig. 6, Disconnecting the Quick Connect Fitting**



**Fig. 7, Removing the Threaded Air Line**



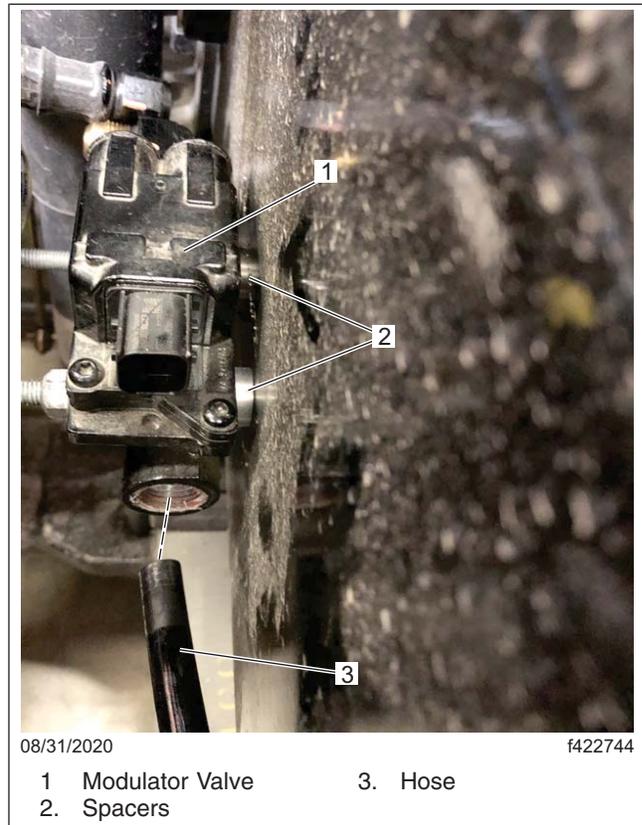
**Fig. 8, Loosening the Brake Chamber Air Line Fitting**

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11. Using a 1/2 inch socket wrench, remove the two modulator valve mounting bolts, then remove the modulator valve from the vehicle.
  12. Using a 23 mm wrench, remove the brake chamber air line fitting from the modulator valve.
- IMPORTANT: Be careful when applying sealant to the threads of the air line fitting to avoid internal contamination of the air system.
13. Clean any old sealant off of the threads and apply Loctite® 567 on the quick connect fitting.
  14. Using a 23 mm wrench install the brake chamber air line fitting on the new modulator valve.
  15. Using a 1/2 inch socket wrench and the new bolts, spacers, and washers from the kit, install the modulator on the vehicle. Tighten the bolts 11 lbf-ft (15 N-m). See [Fig. 9](#), [Fig. 10](#), [Fig. 11](#), and [Fig. 12](#).

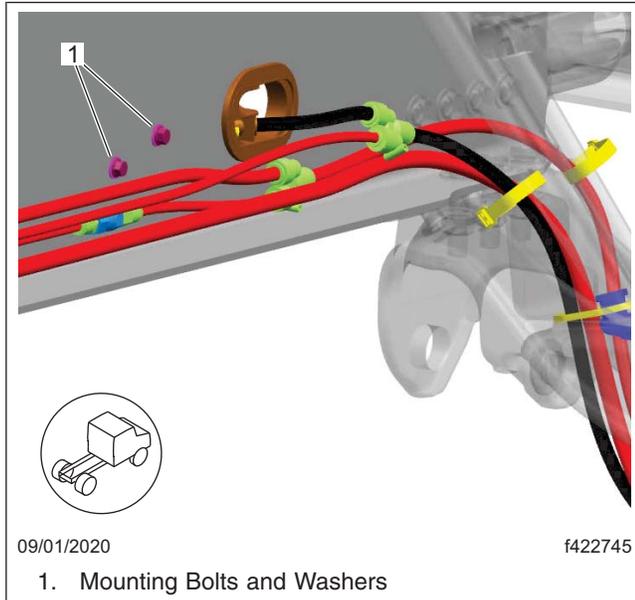


**Fig. 9, 25-FL855-001 Kit Components**

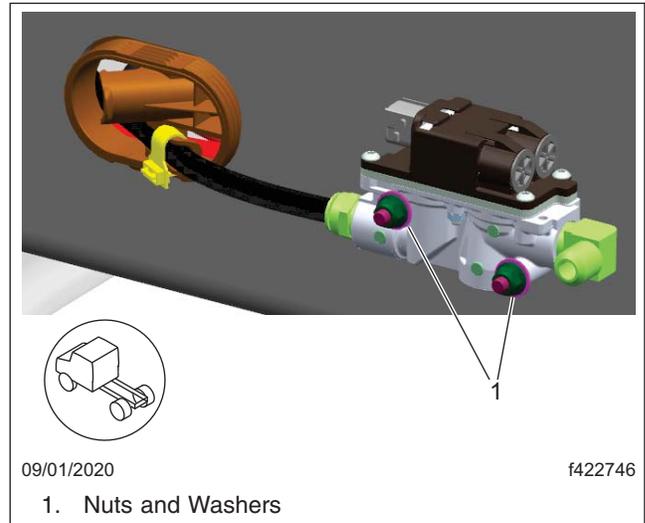


**Fig. 10, Installing the Spacers**

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**Fig. 11, Modulator Valve Mounting Bolt and Washers;  
Inside Frame Rail View**



**Fig. 12, Modulator Valve Nuts and Washers; Outside  
Frame Rail View**

16. Using a 7/8 inch wrench, install the threaded air line that goes from the modulator valve to the brake chamber.

**IMPORTANT:** Be careful when applying sealant to the threads of the air line fitting to avoid internal contamination of the air system.

17. Clean any old sealant off of the threads and apply Loctite® 567 on the quick connect fitting.

18. Using a 7/8 inch wrench install the quick connect fitting on the modulator valve.

19. Attach the plastic air line to the modulator.

20. Install the ABS zip tie on the modulator mounting bolt (to prevent chafing). See [Fig. 3](#).

21. Connect the electrical modulator valve connector.

22. Repeat the procedure for the modulator valve on the other side of the vehicle.

23. Close the hood.

24. Build air pressure to check for leaks and perform six full brake applications in the parking lot to verify proper brake performance.

25. Clean a spot on the base label (Form WAR259). Write the recall number, FL855, on a blank red completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.