

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

**Subject: Kongsberg Adjustable Brake Pedal**

**Models Affected: Specific model year 2021 Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2) vehicles manufactured March 18, 2020 through May 22, 2020.**

**General Information**

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

On certain vehicles, the adjustable brake pedal arm may rotate or bend from its original position. The rotation of the brake pedal may lead to driver difficulty locating the pedal during a braking event, increasing the risk of a crash.

The brake pedal assembly will be replaced. Repairs will be performed by Daimler Trucks North America authorized service facilities.

There are approximately 1700 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 and/or part number(s) listed below from your facing Parts Distribution Center.

If our records show your dealership has ordered any vehicle(s) involved in campaign number FL857, 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.

**Table 1** - Replacement Parts for FL857

Campaign Number	Part Description	Part Number	Qty. per Vehicle
FL857A	PEDAL-BRAKE,PNEUMATIC,ADJ	A12-24318-000	1 ea
	PIN-PEDAL,BRAKE	12-15528-000	1 ea
	SCR-MACH,PNH,HDI,M8X1.25	23-13013-730	4 ea
	WASHER-LOCK,5/16"	23-09318-010	7 ea
	NUT-HEX,FLG,5/16-18	23-13862-105	3 ea
	PIN-SPRING,1"	23-00809-016	1 ea

**Table 1, Continued on page 2**

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

Campaign Number	Part Description	Part Number	Qty. per Vehicle
FL857B	PEDAL-BRAKE, HYDRAULIC, ADJ	A12-24317-000	1 ea
	PIN-PEDAL, BRAKE	12-15528-001	1 ea
	SCR-MACH, PNH, HDI, M8X1.25	23-13013-730	4 ea
	SCREW-CAP, HEX BTN HD, M10X20X35	23-12179-102	4 ea
	NUT-HEX, FLNG, LKG, M10-1.5, ZN AL	23-13892-010	4 ea
	GASKET-PEDAL, BRAKE, HYDRAULIC	12-19138-000	1 ea
	PIN-SPRING, 1"	23-00809-016	1 ea
FL857AB	Completion Sticker	WAR260	1 ea

Table 1, Continued from page 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
FL857A	PNEUMATIC BRAKE PEDAL R/R	0.5	996-R105A	12-Repair Recall/Campaign
FL857B	HYDRAULIC BRAKE PEDAL R/R	0.9	996-R105B	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 (**FL857-A, or FL857-B**).
- In the Primary Failed Part Number field, enter **25-FL857-000**.
- In the Parts field, enter the appropriate kit or part number(s) 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.
- 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.

**February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347**

- 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/WSC](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. 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.

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

## Copy of Notice to Owners

### Subject: Kongsberg Adjustable Brake Pedal

**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), and its wholly owned subsidiary, Freightliner Custom Chassis Corporation, has decided that a defect, which relates to motor vehicle safety, exists on specific Model Year 2021 FCCC B2 school bus chassis (Thomas Built buses Saf-T-Liner C2) manufactured March 18, 2020, through May 22, 2020.

On certain vehicles, the adjustable brake pedal arm may rotate or bend from its original position. The rotation of the brake pedal may lead to driver difficulty locating the pedal during a braking event, increasing the risk of a crash.

The brake pedal assembly will be replaced. Repairs will be performed by Daimler Trucks North America authorized service facilities.

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 one hour 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

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

## **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.

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

## Work Instructions

### Subject: Kongsberg Adjustable Brake Pedal

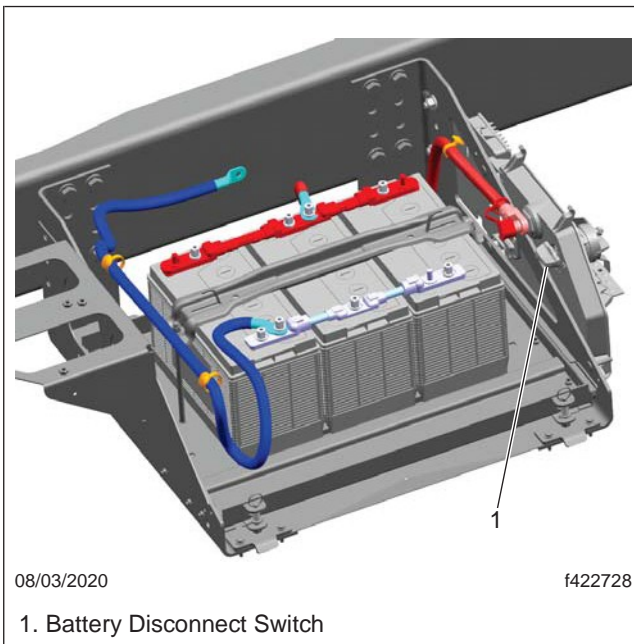
**Models Affected:** Specific model year 2021 Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2) vehicles manufactured March 18, 2020 through May 22, 2020.

### Pneumatic Adjustable Brake Pedal Replacement

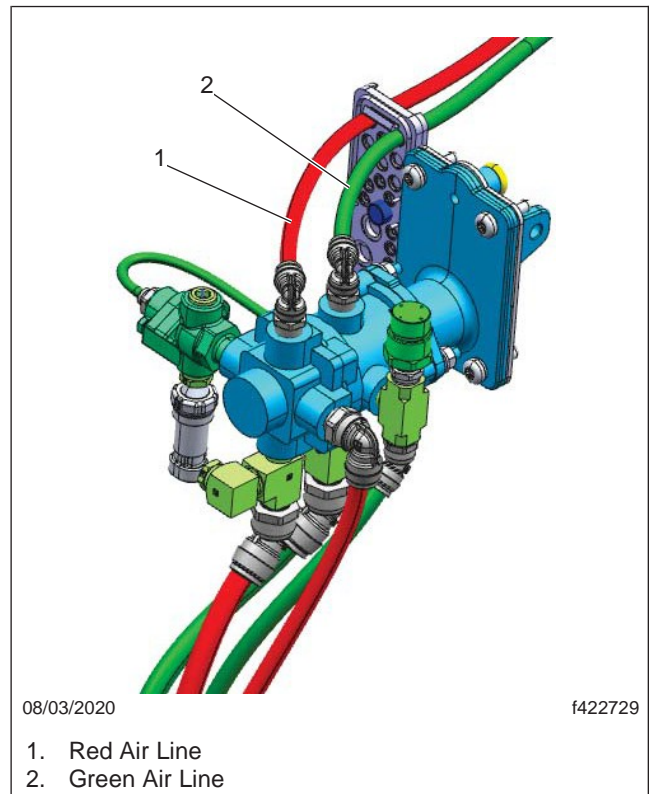
1. Inspect the base label (Form WAR259) for a campaign completion sticker for FL857 (Form WAR260). If a sticker is present for FL857, no work is needed. If there is no sticker, proceed with the steps below.
2. Park the vehicle on a level surface, shut down the engine, and apply the parking brake. Chock the tires.
3. Using the battery disconnect switch, located in battery compartment, shut off the battery power. See [Fig. 1](#).
4. Drain the air from the air tanks by pumping the brake pedal until the tanks are empty.

NOTE: Before removing the red and green air lines, make a note of their location at the top of the treadle valve for later use.

5. Disconnect the 3/8-inch red and green air lines from the top fittings of the treadle valve. See [Fig. 2](#).



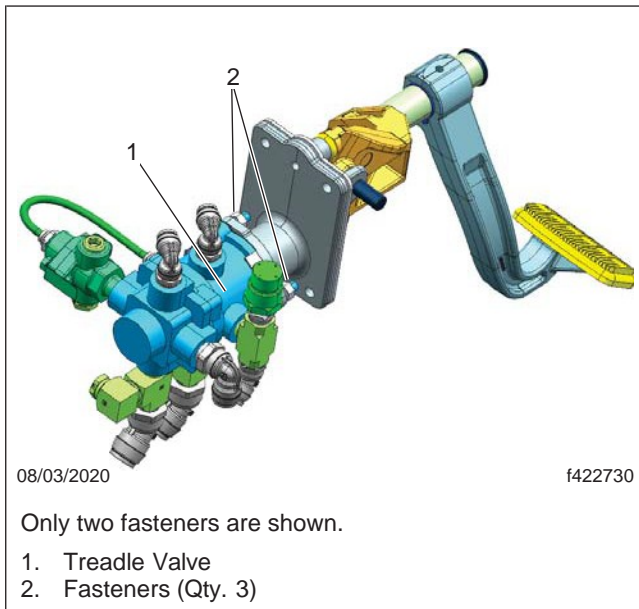
**Fig. 1, Battery Disconnect Switch**



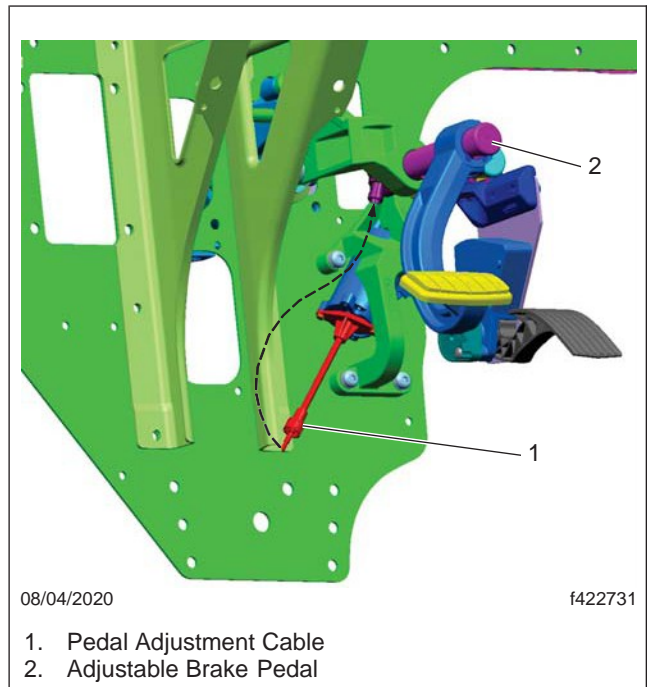
**Fig. 2, Disconnecting the Red and Green Air Lines**

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

6. Remove the three fasteners that attach the treadle valve to the adjustable pedal assembly. With the remaining hoses and harness still attached, secure the treadle valve out of the way. See [Fig. 3](#) for the location of the fasteners.
7. Disconnect the brake pedal adjustment cable under the dash. See [Fig. 4](#).



**Fig. 3, Treadle Valve**



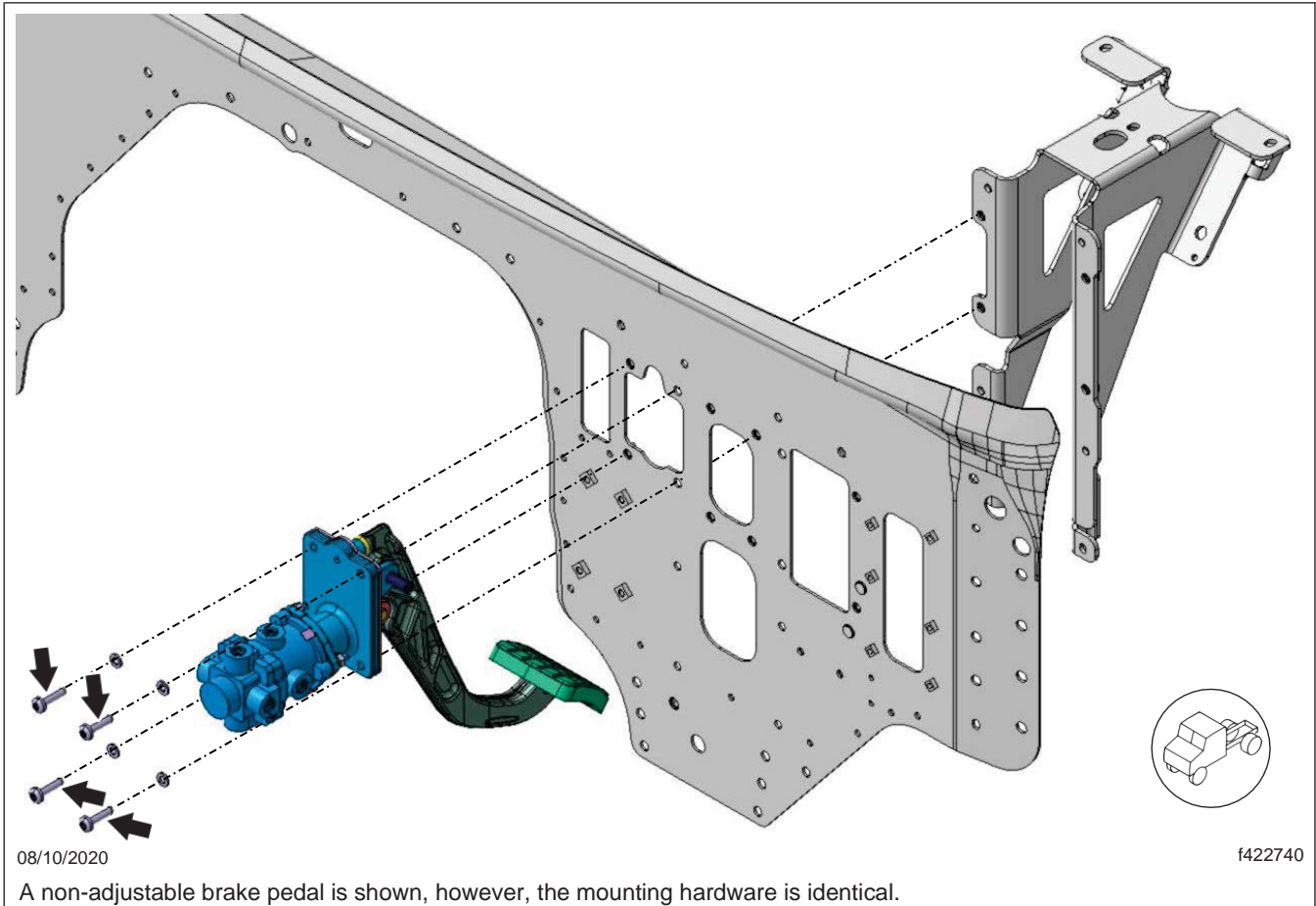
**Fig. 4, Disconnecting the Pedal Adjustment Cable**

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

## NOTICE

Carefully remove the pedal assembly from the engine side of the cowlings to avoid damaging the gasket (not shown) between the base plate and cowl.

- Using a star bit tipped socket, remove and discard the brake pedal assembly mounting hardware, then remove the brake pedal assembly. See [Fig. 5](#).

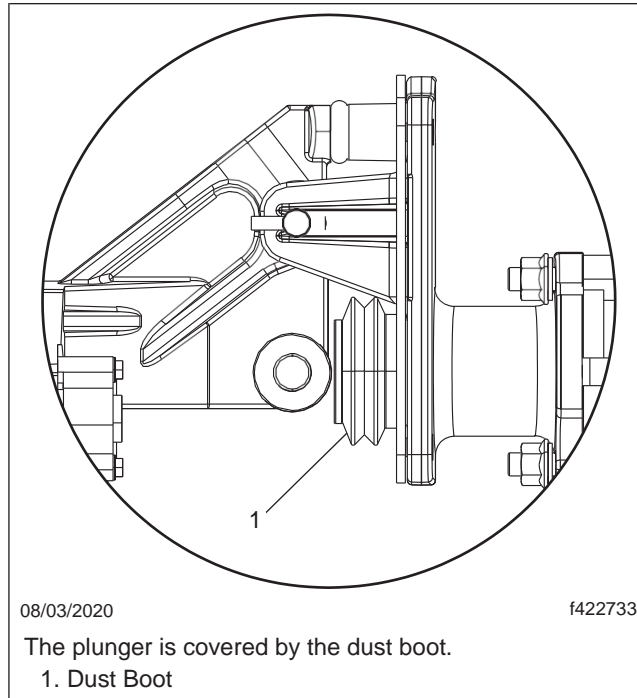


**Fig. 5, Removing the Brake Pedal Assembly**



February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

9. Retain the dust boot and plunger (covered by the dust boot) from the brake pedal assembly for later use.  
See [Fig. 6](#).



**Fig. 6, Dust Boot**

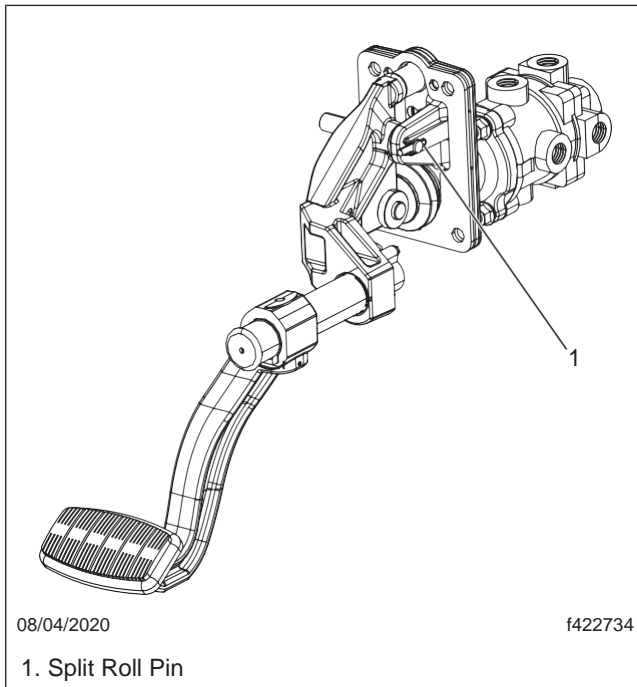
February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

**IMPORTANT:** The split roll pin must be tapped out from the passenger side toward the driver side (right to left).

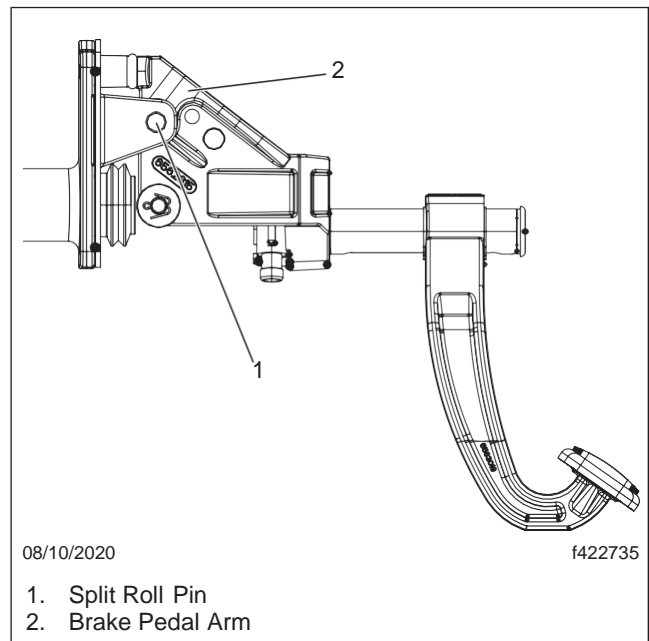
10. Using a hammer and punch, tap the split roll pin from the passenger side toward the driver side, from the upper brake arm out of the pedal mounting base plate. See [Fig. 7](#).

**IMPORTANT:** Make sure the split roll pin is fully engaged on both sides of the casting.

11. Install the new brake pedal arm and carefully drive a new split roll pin in from the driver-side of the base plate casting assembly. See [Fig. 8](#).



**Fig. 7, Removing the Split Roll Pin**



**Fig. 8, Installing the New Brake Pedal Arm**

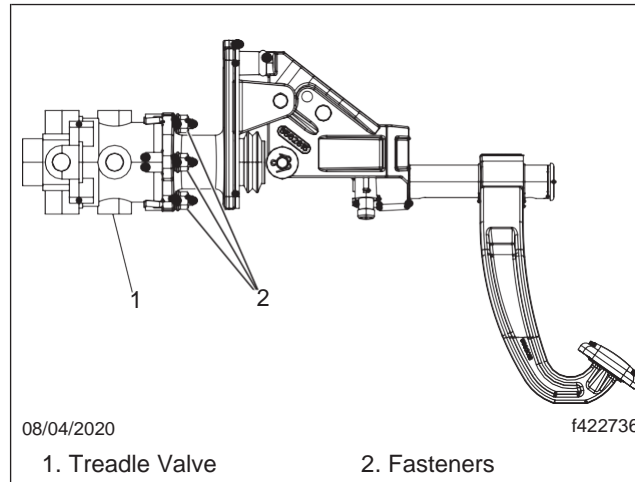
12. Install the treadle valve plunger and dust boot, that was set aside earlier, on the brake pedal base.

**IMPORTANT:** Ensure that the gasket between the brake pedal mounting base and cab front wall is properly seated when installing the brake pedal assembly.

13. Install the brake pedal assembly through the cowl and attach it with four new screws and washers. The new screws should come with thread lock patch applied to them. Tighten the screws  $12\pm 1$  lbf·ft ( $16\pm 1$  N·m). See [Fig. 5](#).

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

14. Using new fasteners, install the treadle valve assembly. Tighten the fasteners 13 lbf-ft (18 N·m). See [Fig. 9](#).



**Fig. 9, Installing the Treadle Valve**

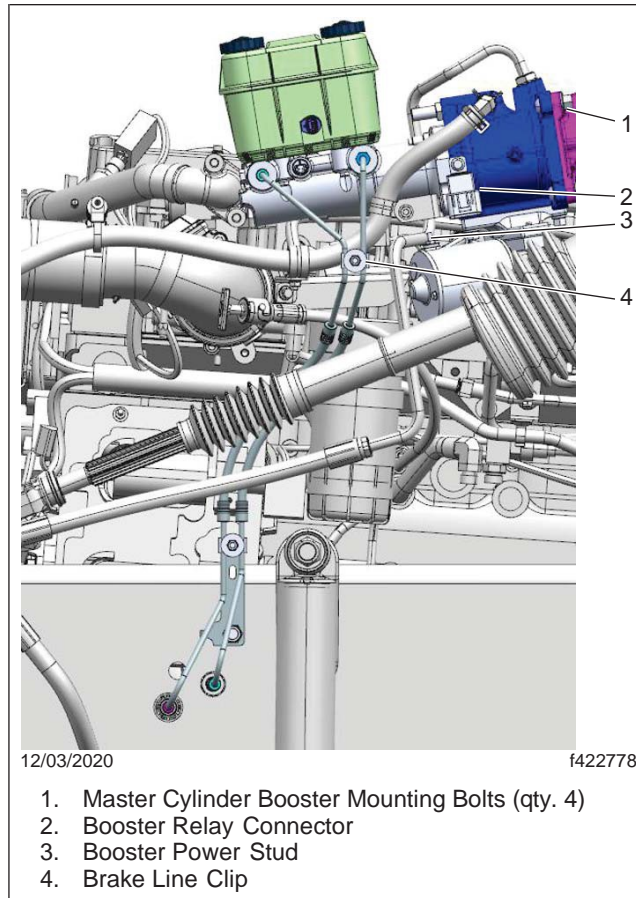
15. Attach the air lines removed earlier. Ensure that all of the other air lines and the brake pressure switches are connected and the harness is properly routed.
16. Turn the battery disconnect switch back on, then start the engine and build air pressure. Once full air pressure is reached, shut down the engine.
17. Using the adjustable pedal switch, adjust the accelerator pedal so that it is at the same approximate distance as the brake pedal.
18. Connect the brake pedal adjustment cable to the brake pedal. See [Fig. 4](#).
19. Verify that the brake pedal does not pinch or rub any wires, air lines, or anything else in the path of full brake pedal travel.
20. Verify that both the brake and accelerator pedals travel the full adjustment lengths. If not, disconnect the brake pedal adjustment cable and adjust the accelerator pedal again using the pedal adjustment switch, then connect the brake adjustment cable.
21. Verify there are no air leaks. Depress the brake pedal, checking for resistance or tight spots on the spool valve inside the treadle valve. It should operate freely without any binding or resistance.
22. Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for FL857 (Form WAR260) indicating this work has been completed.

## Hydraulic Adjustable Brake Pedal Replacement

1. Inspect the base label (Form WAR259) for a campaign completion sticker for FL857 (Form WAR260). If a sticker is present for FL857, no work is needed. If there is no sticker, proceed with the steps below.
2. Park the vehicle on a level surface, turn the steering wheel to a full left turn, shut down the engine, and apply the parking brake. Chock the tires.
3. Use the adjustable pedal switch to move the pedal assembly to the full-out position (this makes removing the pedal easier).

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

4. Unplug the brake relay connector from the brake relay mounted to the Hydromax on the lower-left of the adaptor plate; this removes power from the power wire and stud on the brake motor. See **Fig. 10**, item 2.

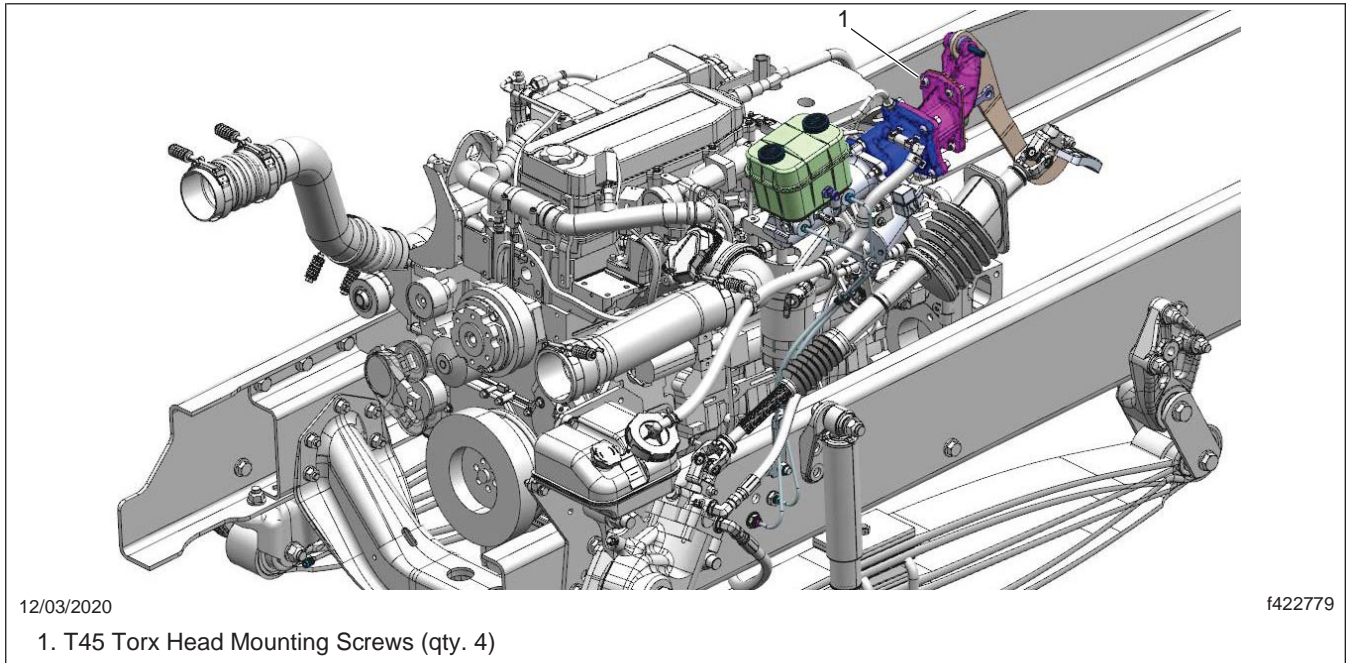


**Fig. 10, Brake Relay Mounted on Hydromax**

5. Use a 3/8 wrench to disconnect the power wire from the brake motor. See **Fig. 10**, item 3.
6. Remove the ground ring terminal from the lower bolt in the adaptor plate (not shown).
7. Remove the brake line retainer clip and flat washer and set them aside for later use. See **Fig. 10**, item 4.
8. Remove and discard the four bolts from the master cylinder brake booster to the adjustable brake pedal base. See **Fig. 10**, item 1.

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

9. Remove the four T45 Torx® head mounting screws that attach the adjustable pedal housing to firewall and discard. See [Fig. 11](#), item 1.



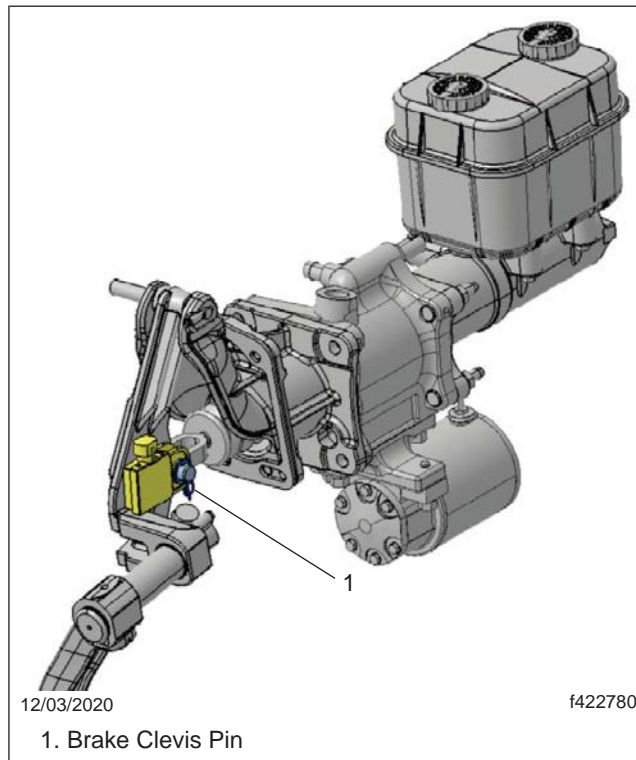
**Fig. 11, Removing the T45 Torx Head Mounting Screws**

10. Disconnect the brake pedal adjustment cable under the dash. See [Fig. 4](#).

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

**IMPORTANT:** Note the assembly of the clevis pin, nylon washers, and switch before removing them. This will ensure proper installation during assembly.

11. Remove the brake clevis pin and pedal switch by disconnecting the clip from the end of the pin and slide the pin out of the pedal. See [Fig. 12](#).



**Fig. 12, Removing the Brake Clevis Pin**

12. Temporarily remove the rubber brake pedal pad and set it aside. This makes removal of the pedal assembly easier through the firewall.

13. Remove the brake pedal and adaptor plate assembly from the front of the firewall. Turn the pedal assembly and line up the pin to remove it from the firewall.

**IMPORTANT:** The split roll pin must be tapped out from the passenger side toward the driver side (right to left).

14. Using a hammer and punch, tap the split roll pin from the passenger side toward the driver side, from the upper brake arm out of the pedal mounting base plate. See [Fig. 7](#).

**IMPORTANT:** Make sure the split roll pin is fully engaged on both sides of the casting.

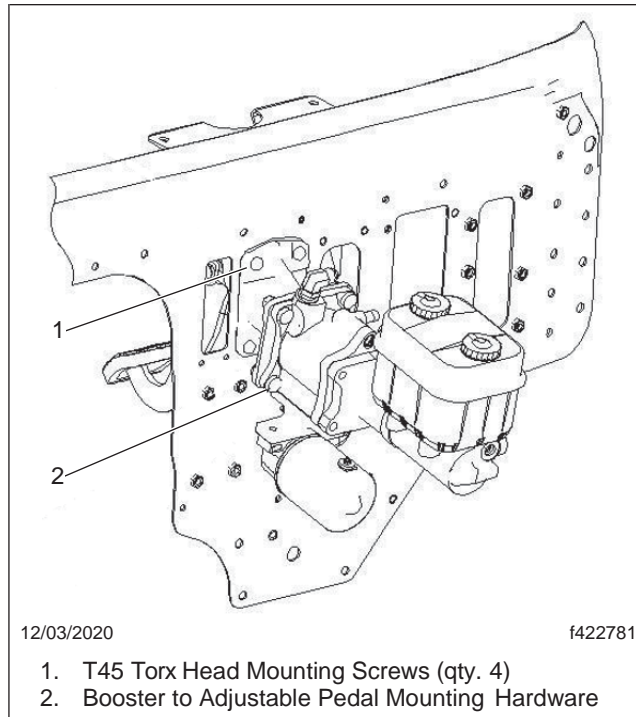
15. Install the new brake pedal arm and carefully drive a new split roll pin in from the driver-side of the base plate casting assembly. See [Fig. 8](#).

16. Replace the firewall gasket.

17. Install the pedal adaptor on the firewall.

February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347

18. Tighten the four T45 Torx head mounting screws that attach the adaptor plate to the firewall 12 lbf-ft (16 N·m). See **Fig. 13**, item 1.



**Fig. 13, Attaching the Adaptor Plate to the Firewall.**

19. Install the Hydromax booster/master cylinder assembly to the adaptor plate with new hardware. Tighten 34 lbf-ft (46 N·m). See **Fig. 13**, item 2.
20. Connect the power wire to the brake motor.
21. Install the ground ring terminal to the Hydromax adaptor plate.
22. Connect the brake motor relay connector.
23. Install the master cylinder brake line retainer clip.
24. Inside the bus cab, reposition the Hydromax clevis around the brake pedal arm. Ensure that the rubber bumper stop on the adaptor plate is in the correct position. When pulling up on the pedal you should feel the rubber bumper compress.
- IMPORTANT:** The brake pedal switch must move freely and not have any interference from wiring or air lines.
25. Install the nylon washers and brake pedal switch, then install the clevis pin. Ensure that all items are installed in the order they were removed earlier.
26. Install the brake pedal pad.
27. Use the adjustable brake pedal switch to put the accelerator pedal and brake pedal in approximately even positions.
28. Attach the drive cable to the brake pedal connector.
29. Verify that both the brake and accelerator pedals travel the full adjustment lengths. If not, disconnect the brake pedal adjustment cable and adjust the accelerator pedal again using the pedal adjustment switch, then connect the brake adjustment cable.

**February 2021  
FL857AB  
NHTSA #20V-435  
Transport Canada #2020-347**

30. Test the Hydromax booster. You should hear an electric motor hum when depressing the brake pedal. If not make sure all connections at the relay and motor are seated properly.

The Hydromax booster should stop running when the brake pedal is released.

31. Verify that the brake lights operate correctly.

32. Start the engine and depress the brake pedal hard several times. Ensure that the Hydromax booster is functional.

33. Turn the engine off.

34. Inspect the Hydromax for any brake fluid or hydraulic fluid leaks including the power steering output line at the top of the booster.

35. Clean a spot on the base label (Form WAR259) and attach a campaign completion sticker for FL857 (Form WAR260) indicating this work has been completed.