

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Subject: FCCC Bus Chassis Fuel Line Interference

Models Affected: Specific Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2) manufactured August 23, 2011, through September 29, 2017.

General Information

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

There are approximately 987 vehicles involved in this campaign.

On certain vehicles, a propane fuel line may be in close proximity to the transmission yoke, and/or at the cross member behind the rear axle. If improperly routed, the line may contact the yoke and/or cross member, increasing the potential for a fuel leak. A fuel leak in the presence of an ignition source may increase the risk of a fire.

The fuel line will be rerouted for proper clearance.

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

If our records show your dealership has ordered any vehicles involved in campaign number FL752, a list of the customers and vehicle identification numbers will be available in OWL. Please refer to this list when ordering parts for this recall.

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Table 1 - Replacement Parts for FL752

Campaign Number	Kit Number	Part Description	Part Number	Qty. per Kit
FL752A-D (Transmission End Kit)	25-FL752-000	MOUNT-DUAL SWIVEL SADDLE SZ4	23-12886-001	3 ea
		CLAMP-CA TIE 4.13X15IN 0.5W	23-13476-000	7 ea
		CLAMP-HOSE,POLYAMIDE,17.2 OD	23-13531-002	1 ea
		NUT-HEX,FLANGE,LOCK,5/16-18,ZINC	23-13861-105	1 ea
		BRKT-STANDOFF,1.1X4	23-09130-034	1 ea
		SCREW-CAP,HEX,1/4-20	23-10742-175	1 ea
		NUT SELF LOCK	23-11600-100	1 ea
		WASHER-FLAT,S. STL,1/4,.625 OD	23-10900-025	2 ea
		COMPLETION STICKER	WAR260	1 ea
FL752A (Single HCV Kit)	25-FL752-001	BRACKET-STANDOFF,.656X.28	23-09130-007	2 ea
		TIE STRAP (TIE-CABLE,DUAL,.375 TO 2.25)	TYC DCT110HIR	6 ea
		SPACER-NYLON, .50 ID X .98 LG, .98 OD	23-12262-005	1 ea
		BRACKET-STANDOFF,.344X.344,ANGLE	23-09130-076	1 ea
		NUT-HEX,FLANGE,LOCK,5/16-18,ZINC	23-13861-105	1 ea
		AXIAL MT-SADDLE ,TIE STRIP,8MM	23-13140-018	2 ea
		SCREW-CAP,HEX,5/16-18,	23-11745-100	1 ea
		NUT-HEX,FLANGE,LOCK,1/4-20,ZINC/ALUM	23-13861-104	1 ea
		SCREW-CAP,HEX,1/4-20 U	23-11743-250	1 ea
		STUD-THREADED TIE MOUNT,0.750	23-13805-075	1 ea
		CLAMP-CA TIE 4.13X15IN 0.5W	23-13476-000	10 ea
		WASHER-FLAT,STEEL,HARDENED,5/16 IN	23-09114-006	1 ea
		BRKT-STANDOFF,1.12X2.1	23-09130-050	1 ea
		WASHER-FLAT,S. STL,1/4,.625 OD	23-10900-025	4 ea
		NUT SELF LOCK	23-11600-100	2 ea
SCREW-CAP,HEX,1/4-20	23-11743-100	2 ea		
FL752B (Leaf Spring Kit)	25-FL752-002	CLAMP-CA TIE 4.13X15IN 0.5W	23-13476-000	12 ea
		CLAMP-CABLE TIES AND MOUNTS,AXIAL MOUNT-	23-13140-018	3 ea
		SCREW-CAP,HEX,1/4-20 U	23-11743-100	5 ea
		NUT-HEX,FLANGE,LOCK,5/16-18,ZINC	23-13861-105	1 ea
		WASHER-FLAT,STAINLESS STL,1/4,.625 OD	23-10900-025	10 ea
		NUT SELF LOCK L	23-11600-100	5 ea
		TIE STRAP-BUTTON HEAD,.3 X 15.05IN	23-12069-001	2 ea
		SCREW-CAP,HEX,1/4-20 U	23-11745-100	1 ea
		WASHER-FLAT,STEEL,HARDENED,5/16 IN	23-09114-006	1 ea
		BRKT-MTG BATTERY CABLE	06-09782-014	2 ea
		BRKT-STANDOFF,1.12X2.1	23-09130-050	1 ea
		TIE-CABLE,DUAL,.375 TO 2.25	TYC DCT110HIR	6 ea
FL752C (Dual HCV Kit)	25-FL752-003	CLAMP-CA TIE 4.13X15IN 0.5W	23-13476-000	3 ea
		BRACKET-STANDOFF,.656X.28	23-09130-007	1 ea
		AXIAL MT-SADDLE ,TIE STRIP,8MM	23-13140-018	3 ea
		WASHER-FLAT,S. STL,1/4,.625 OD	23-10900-025	8 ea
		NUT SELF LOCK	23-11600-100	4 ea
		SCREW-CAP,HEX,1/4-20	23-11743-100	4 ea
		BRKT-STANDOFF,1.12X2.1	23-09130-050	1 ea

Table 1

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

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
FL752A	Adjust fuel line routing w/single height control valve	3.5	996-R030A	12-Repair Recall/Campaign
FL752B	Adjust fuel line routing w/leaf spring suspension	2.7	996-R030B	
FL752C	Adjust fuel line routing w/dual height control valve	1.2	996-R030C	
FL752D	Adjust fuel line routing only	1.3	996-R030D	

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 FTL Authorization field, enter the campaign number and appropriate condition code (e.g. **FL752-A, FL752-B, etc.**).
- In the Primary Failed Part Number field, enter **25-FL752-000**.
- 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 939-0010A for 0.3 hours.
- The VMRS Component Code is **044-001-011** 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.

**August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513**

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, or the Customer Assistance Center at (800) 385-4357, after normal business hours, 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.

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Copy of Notice to Owners

Subject: FCCC Bus Chassis Fuel Line Interference

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 Canadian Motor Vehicle Safety Act.

Daimler Trucks North America LLC (DTNA), on behalf of its wholly owned subsidiary, Freightliner Custom Chassis Corporation, has decided that a defect that relates to motor vehicle safety exists on specific Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2) manufactured August 23, 2011, through September 29, 2017.

On certain vehicles, a propane fuel line may be in close proximity to the transmission yoke, and/or at the cross member behind the rear axle. If improperly routed, the line may contact the yoke and/or cross member, increasing the potential for a fuel leak. A fuel leak in the presence of an ignition source may increase the risk of a fire.

The fuel line will be rerouted for proper clearance.

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. On the menu tab, select "Contact," scroll down to "Find a Dealer," and select the appropriate brand. The Recall will take approximately one to two hours, depending on the repair, and will be performed at no charge to you.

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.

For the Notice to U.S. Customers: 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, or the Customer Assistance Center at (800) 385-4357 after normal business hours. 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 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, or the Customer Assistance Center at (800) 385-4357 after normal business hours.

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

WARRANTY CAMPAIGNS DEPARTMENT

Enclosure

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

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.

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Work Instructions

Subject: FCCC Bus Chassis Fuel Line Interference

Models Affected: Specific Freightliner Custom Chassis B2 school bus chassis (Thomas Built Buses Saf-T-Liner C2) manufactured August 23, 2011, through September 29, 2017.

Preliminary Procedures



When working on the vehicle, shut down the engine, set the parking brake, and chock the tires. Before working under the vehicle, always place jack stands under the frame rails to ensure the vehicle cannot drop. Failure to follow these steps could result in serious personal injury or death.

1. Check the base label (Form WAR259) for a completion sticker for FL752 (Form WAR260) indicating this work has been done. The base label is usually located on the front wall under the dash. If a sticker is present, no work is needed. If there is no sticker, proceed with the next step.
2. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
3. Go to the appropriate section(s) of the work instructions for the vehicle:
 - FL752A - Transmission End of LPG Fuel Line Routing (page 8)
 - Single Height Control Valve (page 14)
 - FL752B - Transmission End of LPG Fuel Line Routing (page 8)
 - Leaf Spring Suspension (page 18)
 - FL752C - Transmission End of LPG Fuel Line Routing (page 8)
 - Dual Height Control Valve (page 21)
 - FL752D - Transmission End of LPG Fuel Line Routing (page 8)

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Transmission End of LPG Fuel Line Routing

IMPORTANT: Due to slight variances and options added after the chassis was manufactured, not all of the parts included in the kit(s) will be required. Make sure that all fuel lines are secure and do not rub any other component.

1. Cut the tie band attaching the hoses to the bracket at the rear of the transmission. See [Fig. 1](#).

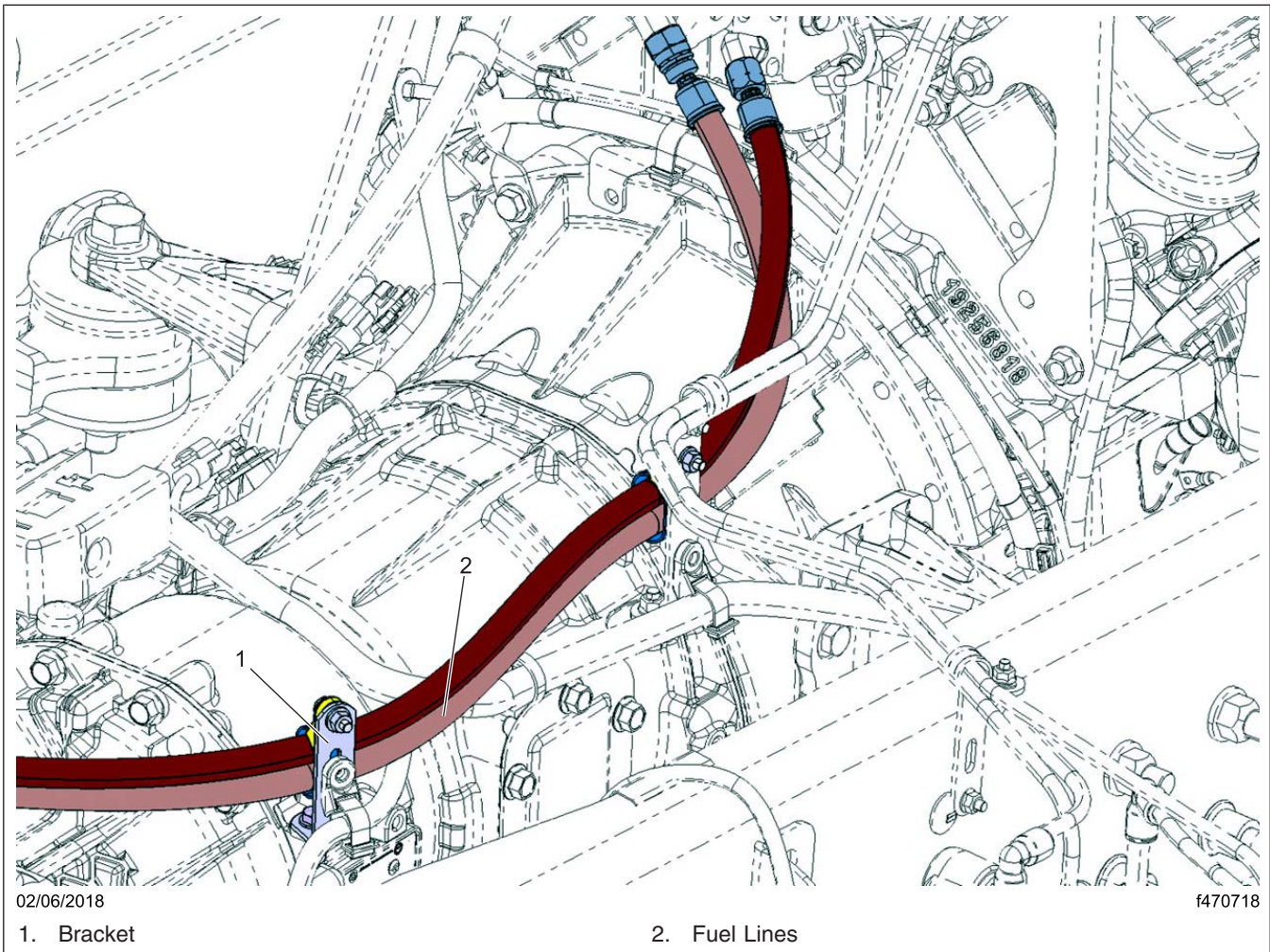


Fig. 1, Fuel Line Routing at the Transmission

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

2. Inspect the harness bulkhead mounting bracket located on the driver-side rear of the transmission. If the bracket has a 5/16-inch stud pre-welded, continue with the next step. If not, go to step 4.
3. Attach the hose clamp and the 5/16-inch flange nut from the kit to the existing bracket at the left-rear of the transmission. See [Fig. 2](#).

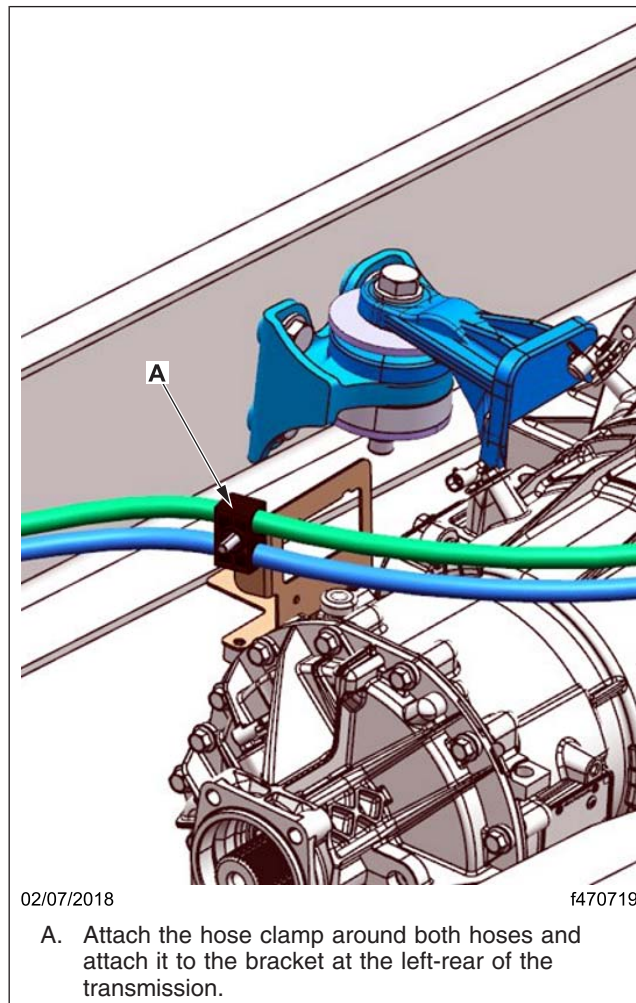


Fig. 2, Attaching the Hose Clamp

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

4. Remove the rear bolt from the harness bulkhead bracket on the left-rear of the transmission and set the bolt aside. Using the mounting bolt, install the bracket. Using the bolt, nut, and washers, install the hose clamps. See **Fig. 3** and **Fig. 4**.

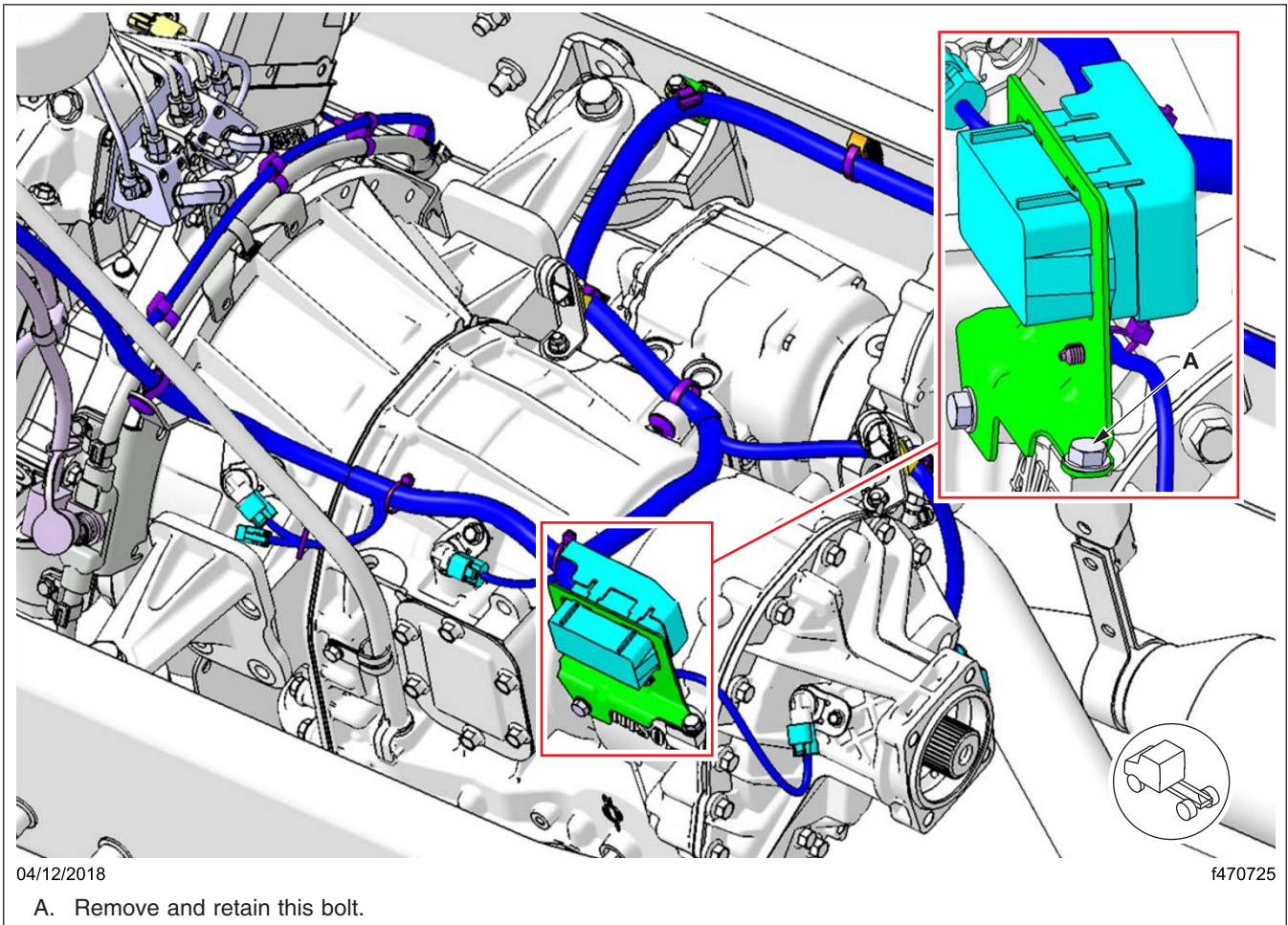


Fig. 3, Removing the Bulkhead Mounting Bolt

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513



Fig. 4, Final Hose Clamp Assembly

5. Cut the tied band and loosen the bracket bolt and saddle clamp bolt, then reposition the bracket 90 degrees to the position shown in [Fig. 5](#), then tighten the bolts.
6. Attach the hoses to the rotated bracket. If the bus is equipped with optional rear air conditioning (A/C), ensure that the rear A/C hoses are secured and not rubbing the fuel lines. See [Fig. 6](#).

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

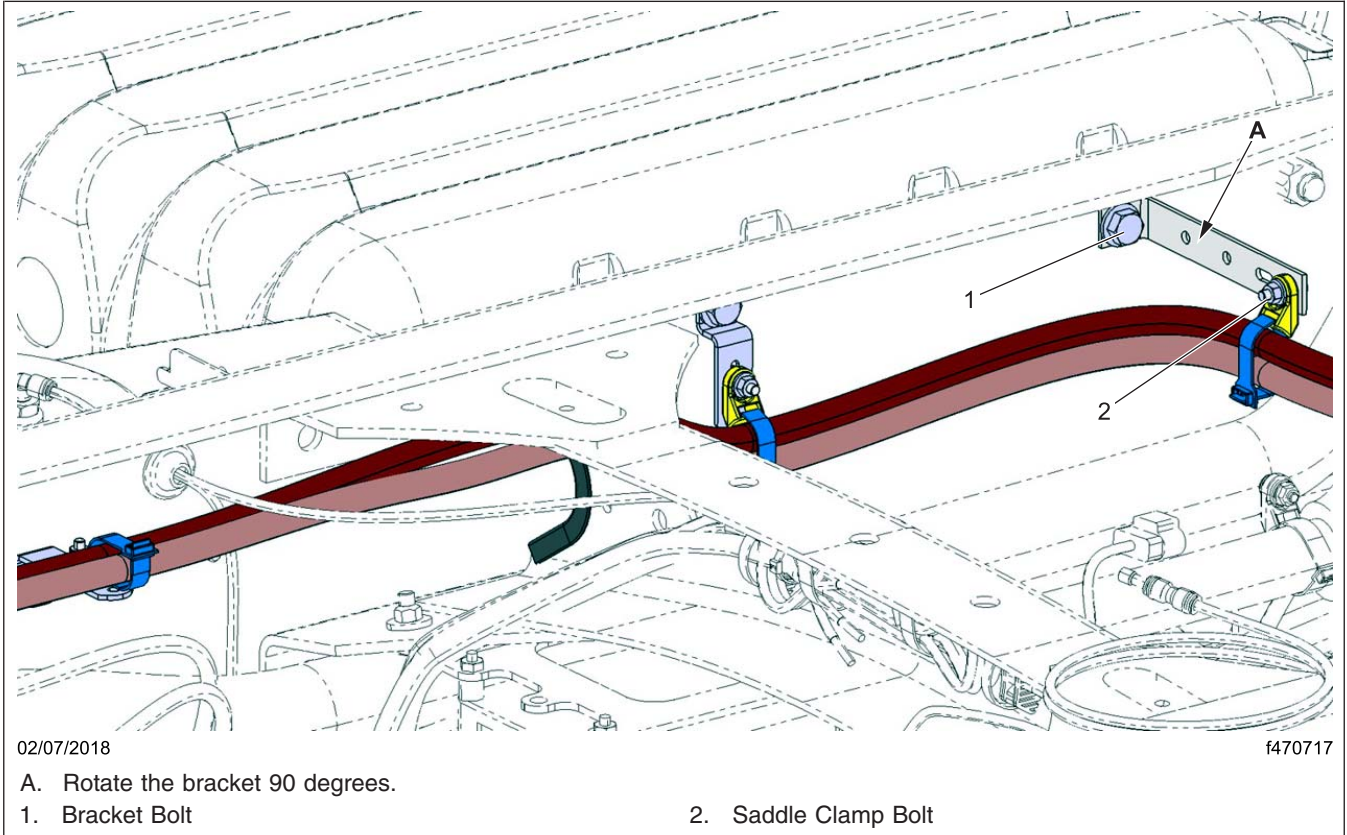


Fig. 5, Rotating the Bracket 90 Degrees

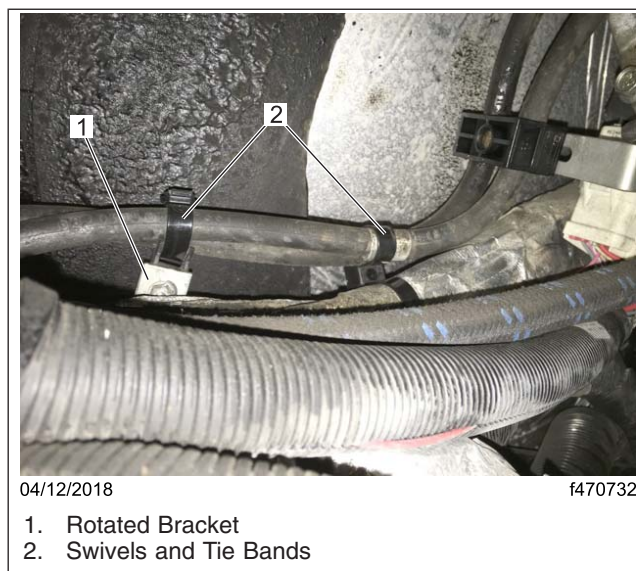


Fig. 6, Attaching the Hoses to the Rotated Bracket

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

7. Using tie bands and dual swivels, secure the hoses to the harness crossing over the transmission. See [Fig. 7](#).

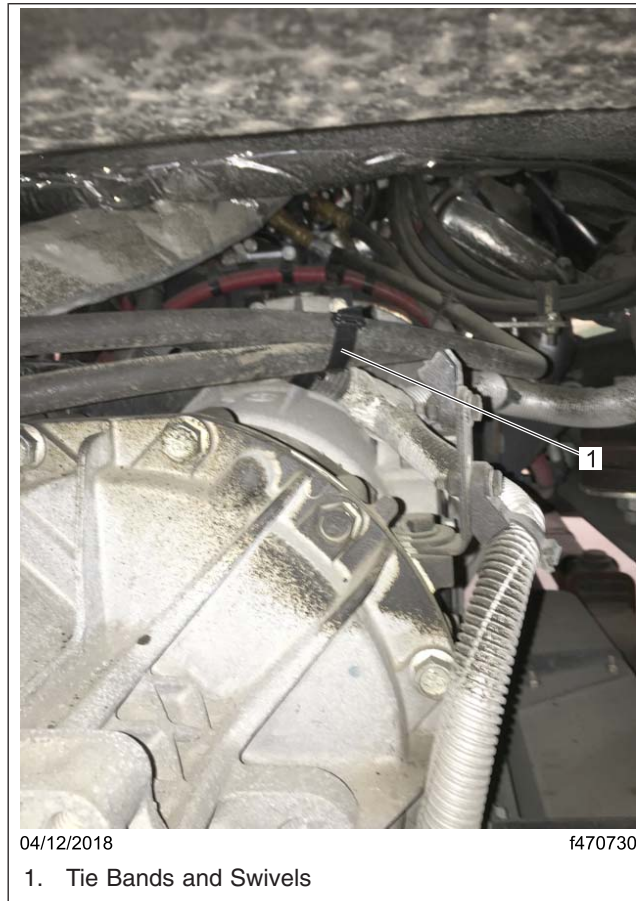


Fig. 7, Securing the Hoses to the Harness

8. If the vehicle is in FL752A, B, or C, go to the next procedure listed in the Preliminary Procedures on page 7.

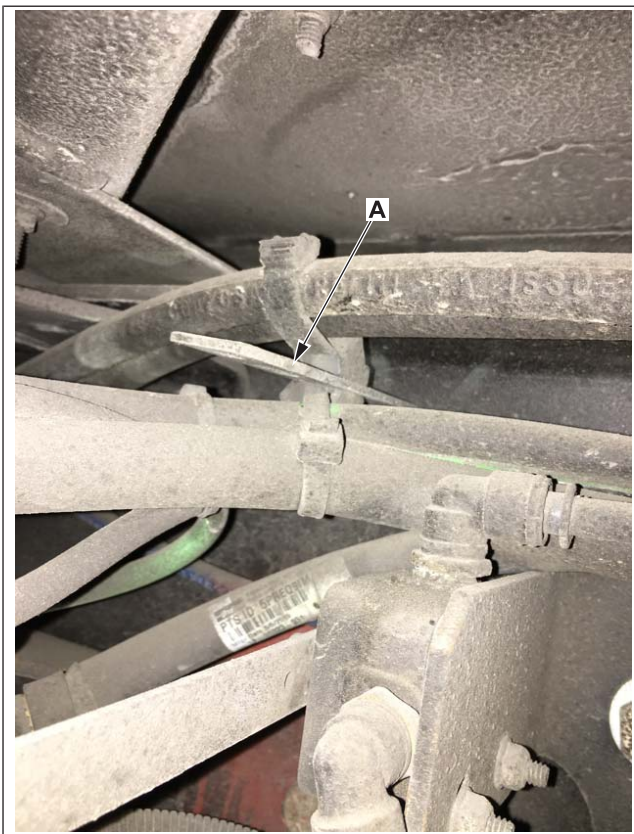
If the vehicle is in FL752D, the repair is complete. Clean a spot on the base label (Form WAR259). Write the recall number, FL752, on a blank red completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Single Height Control Valve

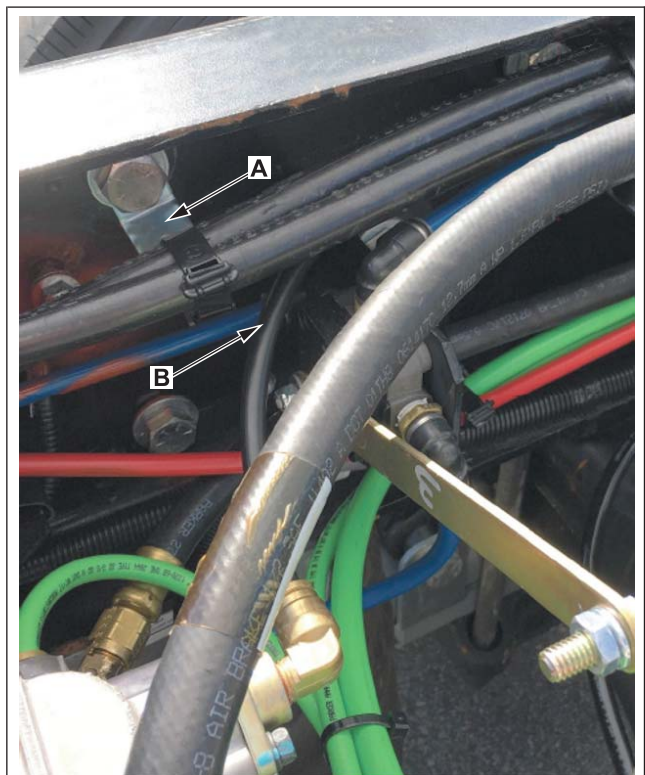
IMPORTANT: Due to slight variances and options added after the chassis was manufactured, not all of the parts included in the kit(s) will be required. Make sure that all fuel lines are secure and do not rub any other component.

1. To ease assembly, raise the rear of the vehicle and support the frame on jack stands. Allow the rear axle to drop a few inches.
2. Drain the air tanks.
3. Cut the tie strap and remove the existing bracket located above and slightly behind the ride height control valve. Discard the bracket and saddle clamp but retain the bracket mounting hardware. See [Fig. 8](#).
4. Using a 1/4 inch nut, bolt and washer, assemble the saddle clamp on the new L bracket.
5. Install the new L bracket in the same location and hand tighten. Ensure the bracket is rotated down to allow the fuel lines to clear the rear suspension crossmember. Install tie bands around the fuel supply and return lines. See [Fig. 9](#).



- A. Remove the existing bracket.
1. Single Height Control Valve

Fig. 8, Removing the Bracket



- A. New bracket and saddle clip installed.
B. Use a zip tie (not shown) and attach this line to the fuel lines.

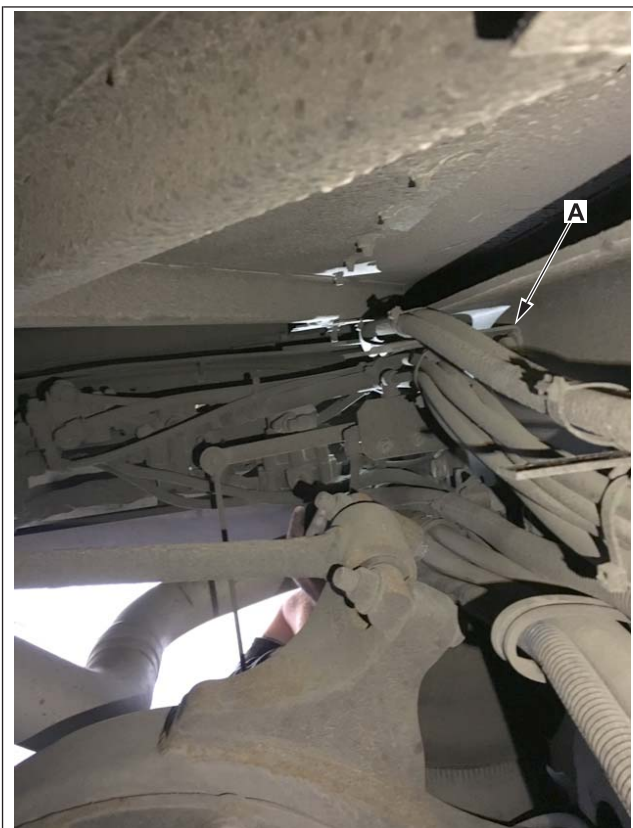
Fig. 9, New Bracket, 23-09130-007, and Saddle Clip Installed

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

- Cut the tie straps securing the fuel lines to the bracket located above and in front of the height control valve. Loosen and rotate this bracket down 180 degrees then retighten the bracket mounting bolt. See [Fig. 10](#).

NOTE: The threaded part of the bolt must be up to avoid rubbing the fuel lines.

- Install a spacer on top of the bracket, then install a dual cable tie around the service brake air hose and secure it with a bolt and washer. See [Fig. 11](#).

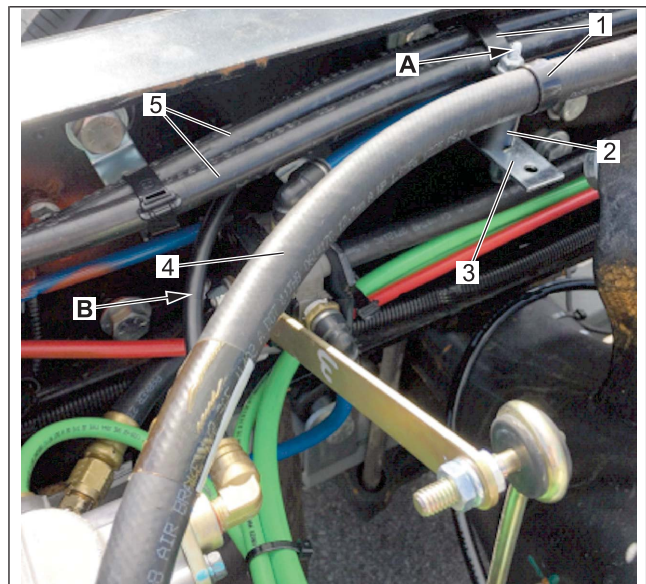


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A. Rotate the bracket 180 degrees.

Fig. 10, Rotating the Bracket, Single Height Control Valve



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- The threaded part of the bolt must be up to avoid rubbing the fuel lines.
 - This line should be tied up away from the height control valve and tied with the fuel lines in the dual cable tie. Also, using a zip tie (not shown) at the other end of this line, attach the line to the fuel lines for a second clipping point.
- | | |
|-------------------|---------------------------|
| 1. Dual Cable Tie | 4. Service Brake Air Hose |
| 2. Spacer | 5. Fuel Lines |
| 3. Bracket | |

Fig. 11, Installing the Double Cable Tie

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

NOTE: The following steps may vary depending on customer installed options and accessories.

IMPORTANT: The fuel lines, air lines and brake hoses must not rub any other chassis components.

8. Disconnect the red and green air lines at the brake valves and reroute them and the left park brake chamber hose under the height control valve bracket. Connect the lines as shown in **Fig. 12** and **Fig. 13**. Add tie bands and dual cable ties as needed to secure the lines.
9. Using tie mounts and tie straps, secure the hoses to the threaded end of the bottom height control valve bolt inside the frame rail. See **Fig. 14**

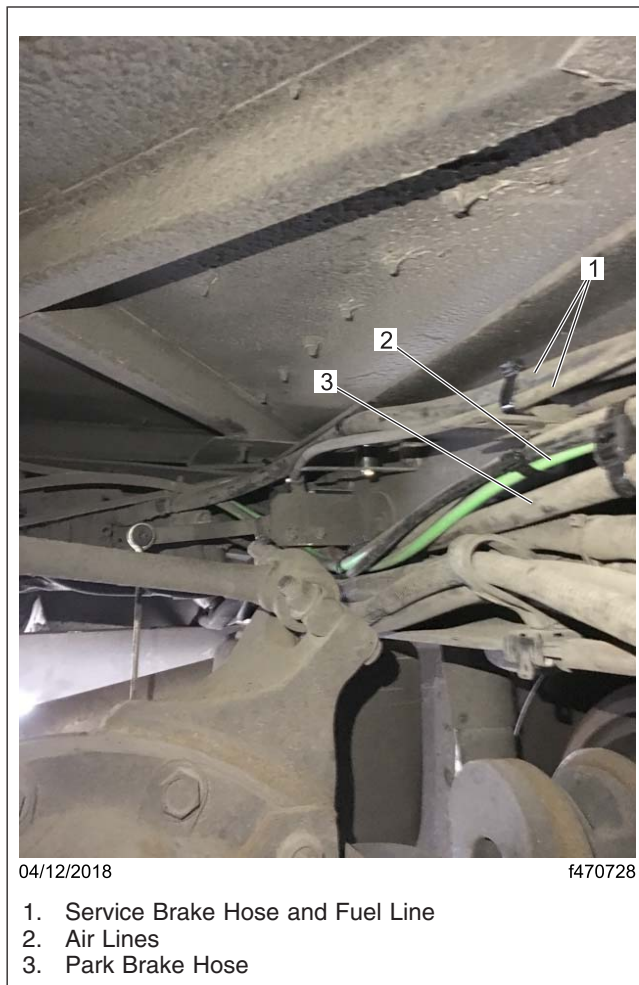


Fig. 12, Attaching the Tie Bands and Dual Cable Ties, Rearward View

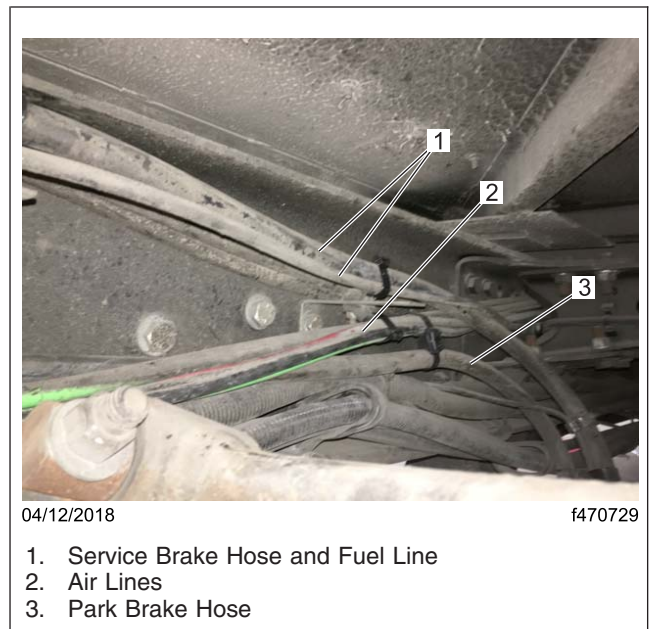


Fig. 13, Attaching the Tie Bands and Dual Cable Ties, Forward View



Fig. 14, Air Line Routing, Single Height Control Valve

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

NOTE: Ensure that there is clearance between the brake hose and bottom of the height control valve bracket.

10. Inspect the rear suspension crossmember for an L bracket and tie band mount after the rear axle as shown in **Fig. 15**. Ensure that the L bracket is oriented as shown.

Install an L bracket if not already done.

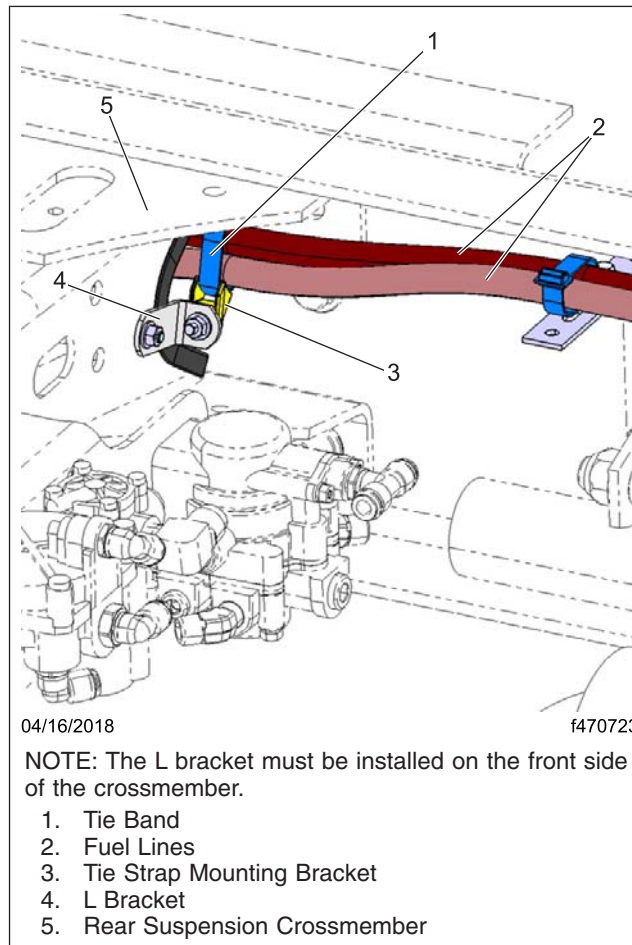


Fig. 15, Fuel Line Routing, Rear Suspension Crossmember

11. Lower the vehicle then start the engine and check for air leaks.

12. The repair for FL752A is complete. Clean a spot on the base label (Form WAR259). Write the recall number, FL752, on a blank red completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.

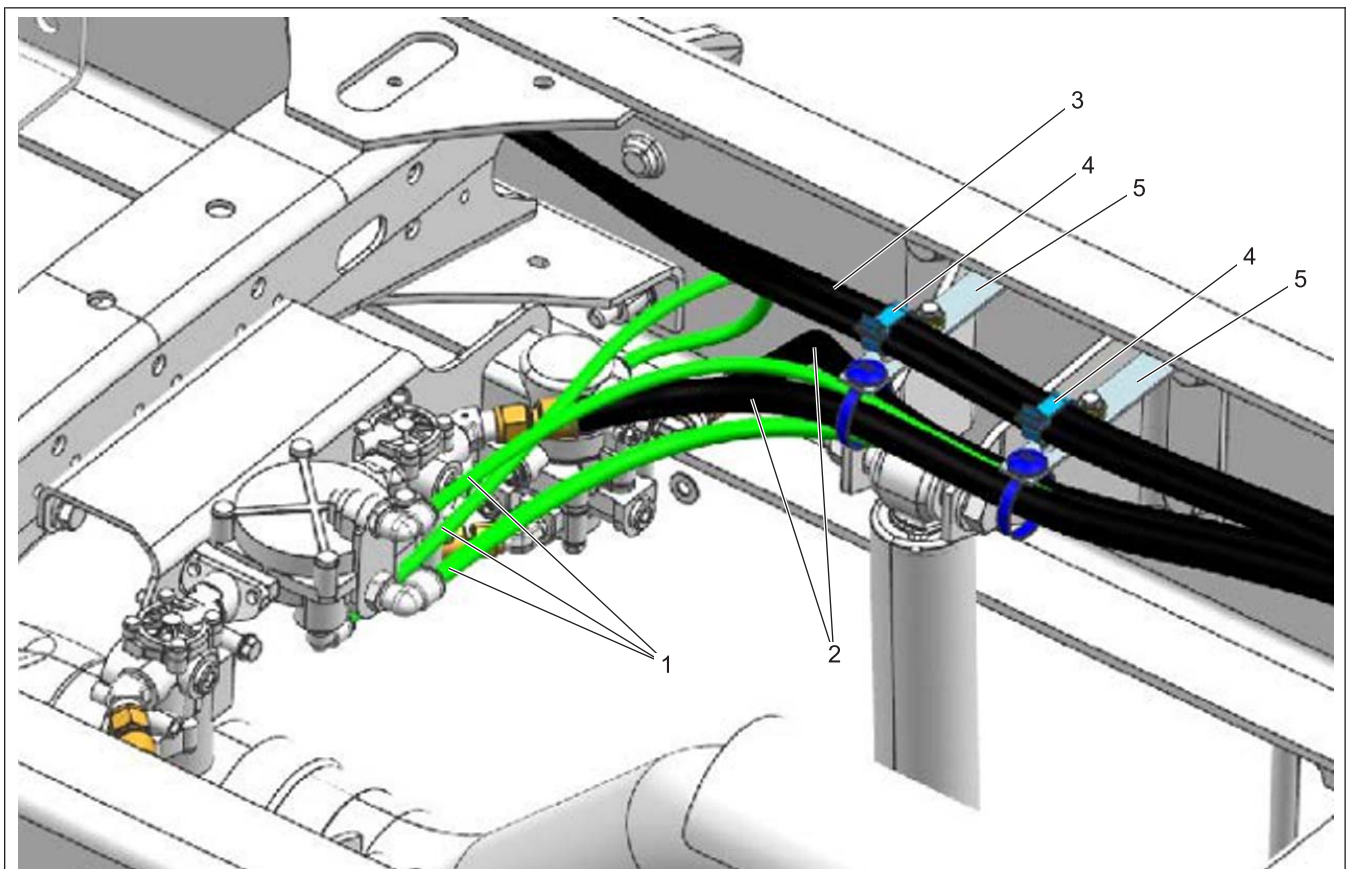
August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Leaf Spring Suspension

IMPORTANT: Due to slight variances and options added after the chassis was manufactured, not all of the parts included in the kit(s) will be required. Make sure that all fuel lines are secure and do not rub any other component.

1. Drain the air tanks.
2. Remove all of the tie bands that attach the LPG fuel lines, service brake hoses, and the air lines to the rear brake valve in front and behind the rear axle.
3. Remove the service brake hoses and the green 1/2- and 3/8-inch air lines from the rear brake valve.
4. Remove the top shock bolt and set it aside.
5. Remove both L brackets attached to the top shock mounting bracket bolts.
6. Install saddle mounts on both L brackets.
7. Install the rearward shock mounting bracket bolt removed earlier, as shown in **Fig. 16**. Tighten the bolt 112 lbf·ft (152 N·m).

Then install the L bracket using hardware in the kit.



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- | | | |
|---------------------------------|------------------|---------------|
| 1. Air Lines | 3. Fuel Lines | 5. L Brackets |
| 2. Service and Park Brake Hoses | 4. Saddle Mounts | |

Fig. 16, Hose and Line Routing, Leaf Spring

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

8. Using existing hardware, install a new L bracket on the forward top shock bracket. Tighten the bolt 112 lbf-ft (152 N·m).
9. Install the top shock bolt and tighten 198 lbf-ft (268 N·m).
10. Install tie bands around the lines and hoses at the proper clipping locations.
11. Install the service brake hoses and the green 1/2- and 3/8-inch air lines on the rear brake valve.
12. Verify that edge guard is on the shock brackets. If edge guard is not present, install it. See **Fig. 17**.



Fig. 17, Inspecting for Edge Guard

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

13. Inspect the rear suspension crossmember for an L bracket and tie band mount after the rear axle. Ensure that the L bracket is oriented as shown in **Fig. 18**.

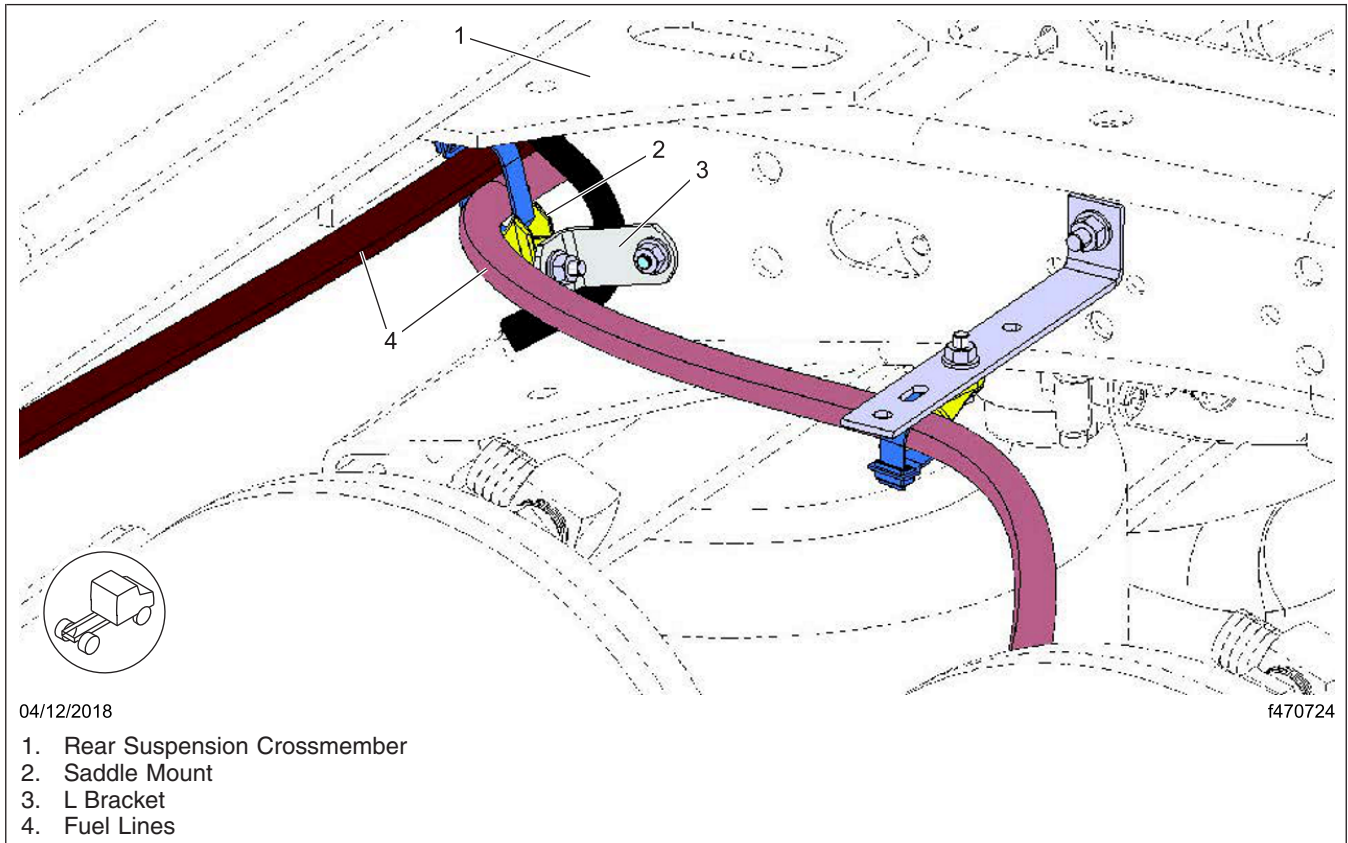


Fig. 18, L Bracket, Leaf Spring Suspension

NOTE: Ensure that there is clearance between the airlines and brake hoses.

14. Install and properly position the LPG fuel lines, service brake hoses, and the air lines so that they do not rub against other components. See **Fig. 16** on page 18.
15. Check for air leaks.
16. The repair for FL752B is complete. Clean a spot on the base label (Form WAR259). Write the recall number, FL752, on a blank red completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.

August 2018
FL752A-D
NHTSA #17V-665
Transport Canada #17-513

Dual Height Control Valve

1. Remove the tie band around the fuel lines. See [Fig. 19](#), Item 1.
2. Remove and discard the indicated bracket and install new bracket 23-09130-007. See [Fig. 19](#), Ref. A, for the location of the bracket.

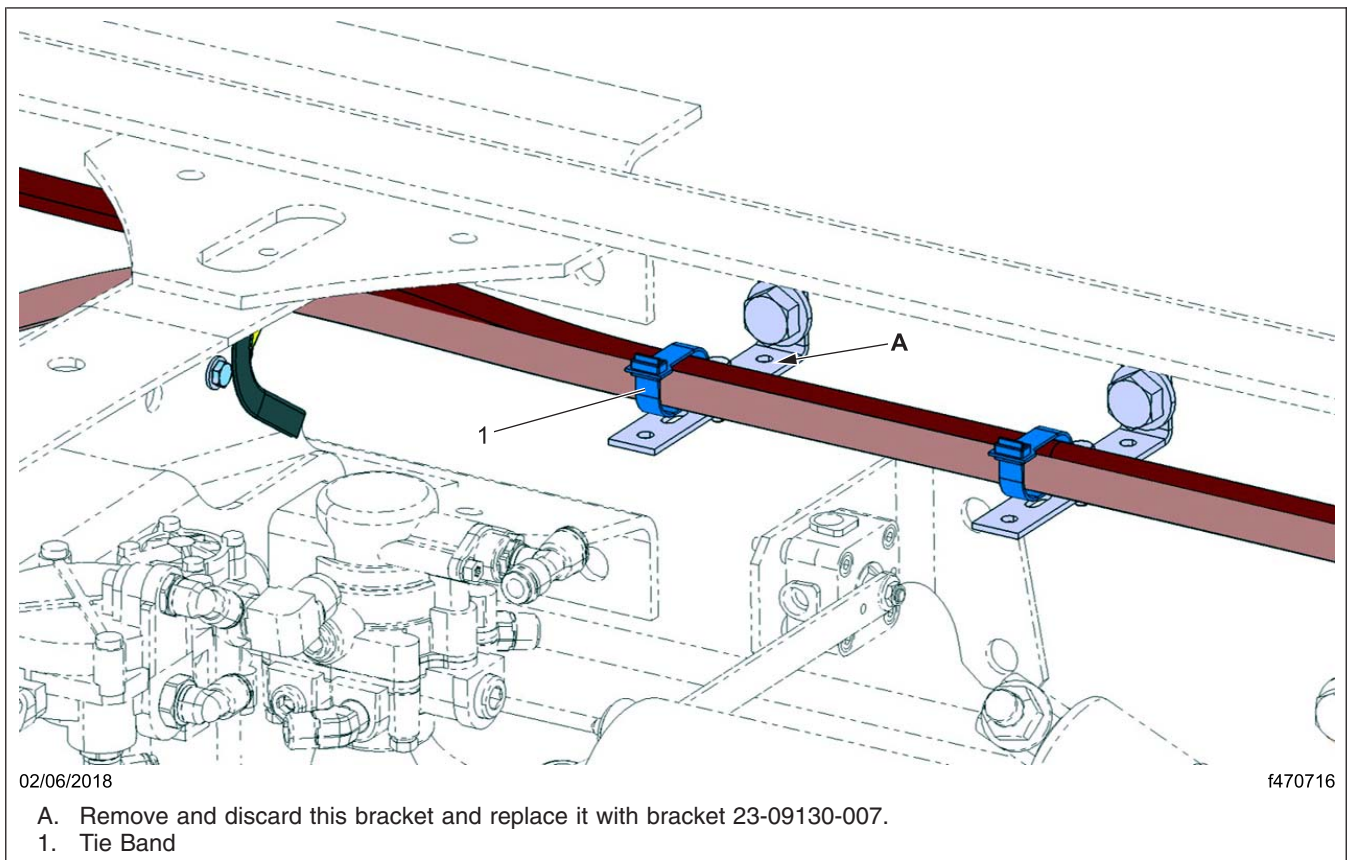


Fig. 19, Replacing Bracket 06-09782-000, Dual Height Control Valve

3. Install a new tie band around the fuel lines.
4. Inspect the rear suspension crossmember for an L bracket and tie band mount after the rear axle as shown in [Fig. 15](#) on page 17. Ensure that the L bracket is oriented as shown.

Install an L bracket if not already done.
5. The repair for FL752C is complete. Clean a spot on the base label (Form WAR259). Write the recall number, FL752, on a blank red completion sticker (Form WAR260), and attach it to the base label to indicate this recall has been completed.