

SERVICE PROCEDURE

17502
May, 2017

SUBJECT: SAFETY RECALL
Air Dryer Mounting Bracket on certain 2015 thru 2018 LoneStar[®], LT[™] Series, ProStar[®], and RH[™] Series trucks built 05 May 2015 thru 12 January 2017 with Battery Box feature code 08XJZ, 08XHJ, 08XHJ, or 08XHL and Cab feature code 16AUX, 16AUM, 16AUN, or 16AUP.

DEFECT DESCRIPTION

The air dryer mounting bracket may fracture, which could cause the air dryer to separate from the vehicle frame with possible airline separation from the dryer, resulting in air system leaks or loss of air pressure to the brake system. Airline separation from the dryer, depending on which line separates, could cause loss of air in the brake system or increased stopping distances which could increase the risk of a crash.

MODELS INVOLVED

This Safety Recall involves certain 2015 thru 2018 LoneStar[®], LT[™] Series, ProStar[®], and RH[™] Series trucks built 05 May 2015 thru 12 January 2017 with Battery Box feature code 08XJZ, 08XHJ, 08HXK, or 08HXL and Cab feature code 16AUX, 16AUM, 16AUN, or 16AUP.

ELIGIBILITY

This procedure applies **ONLY** to vehicles marked in the International[®] Service PortalSM with Safety Recall 17502. Also complete any other open campaigns listed on the Service Portal at this time.

PARTS INFORMATION

NOTE: There are two different parts kits for this campaign depending on whether the truck you are working on is equipped with Hill Start option for the transmission.

Air Dryer Bracket Kit without Hill Start Option

Part Number	Part Description	Quantity
8900276R91	Air Dryer Bracket Kit	1

8900276R91 contains the following parts:

Part Description	Quantity
Air Dryer Bracket Assembly	1
Quality Connect 3/4 in	1
Coupling, Quality Connect 1/4 in	5
Coupling, Quality Connect 5/8 in	1
Quality Connect 3/8 in	4

Air Dryer Bracket Kit with Hill Start Option

Part Number	Part Description	Quantity
8900277R91	Air Dryer Bracket Kit w/ Hill Start	1

8900277R91 contains the following parts:

Part Description	Quantity
Air Dryer Bracket Assembly	1
Hill Start Aid Bracket	1
Quality Connect 3/4 in	1
Coupling, Quality Connect 1/4 in	5
Coupling, Quality Connect 5/8 in	1
Quality Connect 3/8 in	4

SERVICE PROCEDURE

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

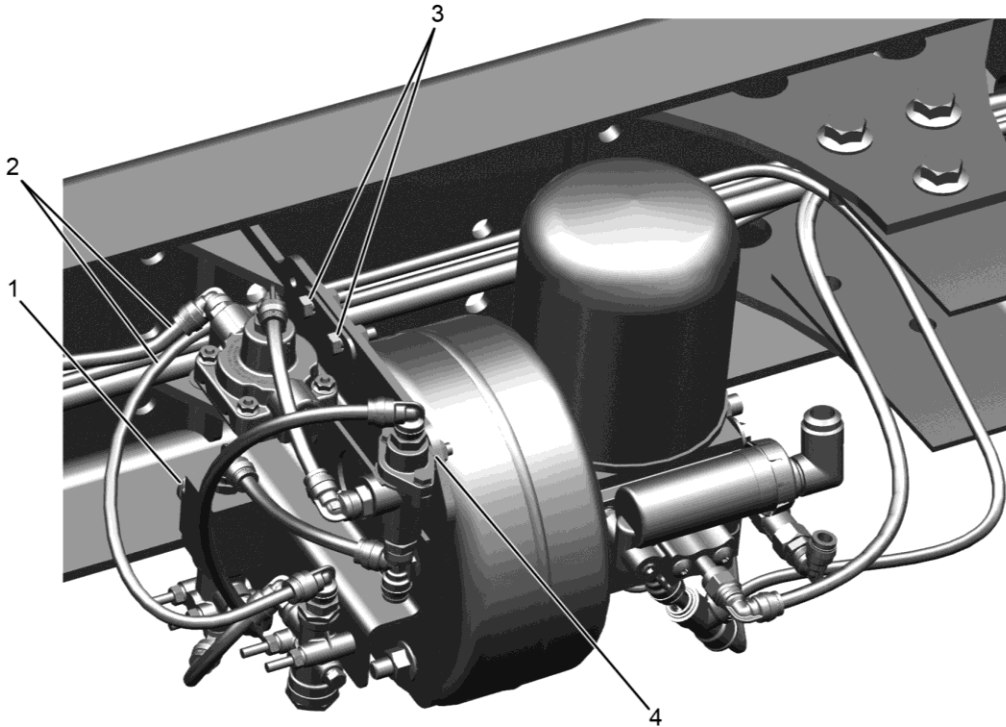
WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and /or death, allow engine / vehicle components to cool before servicing.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

1. Park vehicle on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Drain air tanks.



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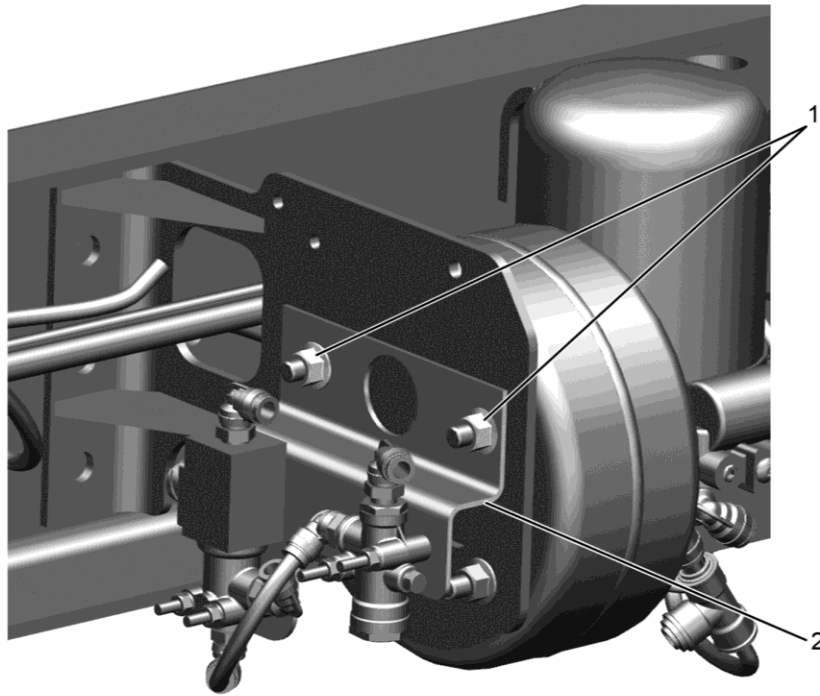
Figure 1. Air Lines and Valve Fasteners for Hill Start

1. Solenoid connector
2. Air line (2)
3. Quick release valve fastener (2)
4. Double-check valve fastener

5. Lift vehicle and set on jack stands.
6. Cut any tie strips in the vicinity of the air dryer assembly (Figure 1) that may be in the way of completing this procedure.
7. Determine if Hill Start Aid (HSA) is equipped:
 - a. If HSA is equipped, proceed to Step 8.
 - b. If HSA is NOT equipped, proceed to Step 12.

NOTE: Prior to disassembly, mark all air lines on the HSA bracket. This will help to identify them during reassembly.

8. Disconnect air lines (Figure 1, Item 2) and solenoid connector (Figure 1, Item 1) from hill start aid valves.
9. Remove two quick release valve fasteners (Figure 1, Item 3).
10. Remove double-check valve fastener (Figure 1, Item 4).

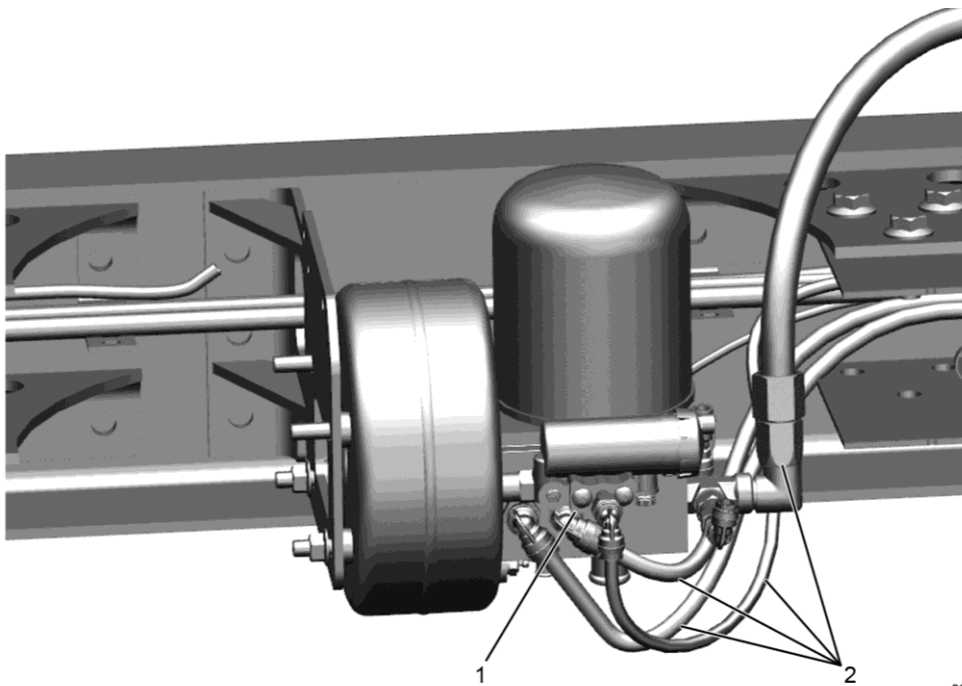


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Figure 2. HSA Component Bracket

1. HSA bracket fastener (2)
2. HSA component bracket

11. Remove two fasteners (Figure 2, Item 1) holding pressure limiting valve / HSA bracket and remove HSA component bracket (Figure 2, Item 2).



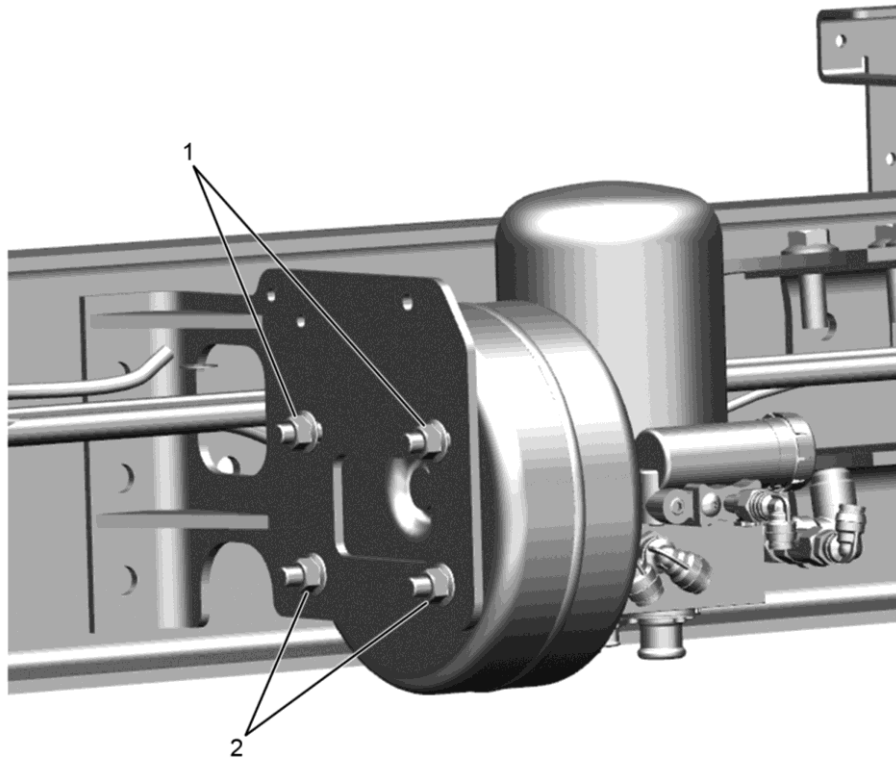
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Figure 3. Air Dryer Air Lines

1. Air dryer
2. Air line (quantity may vary)

NOTE: Prior to disassembly, mark all air dryer air lines. This will help to identify them during reassembly.

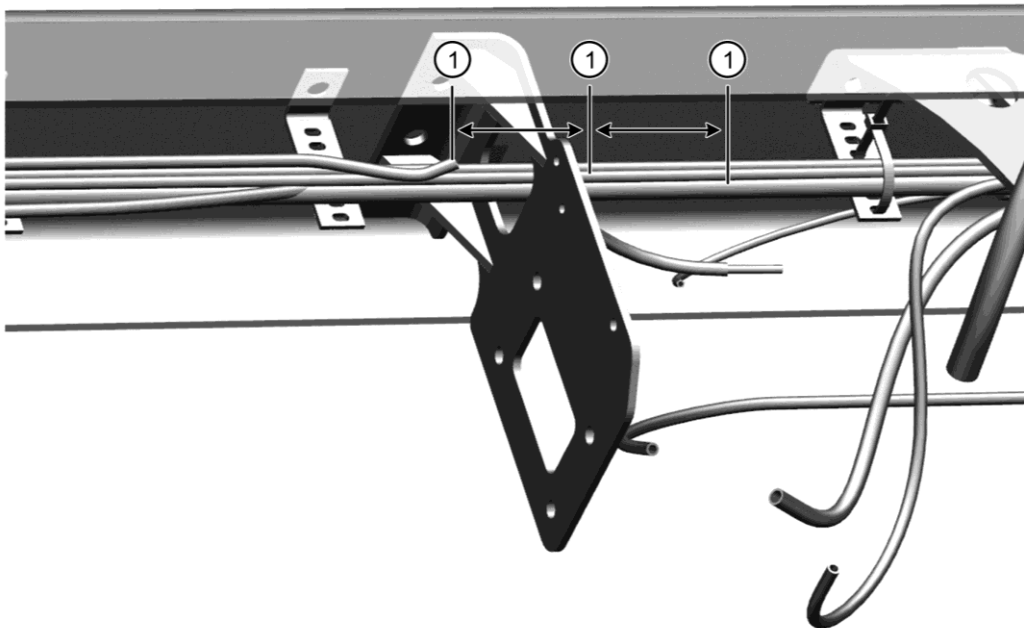
12. Disconnect all air lines (Figure 3, Item 2) connected to air dryer (Figure 3, Item 1), simplifying removal of air dryer bracket.



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Figure 4. Air Dryer Mounting Bolts

1. Upper mounting bolt (2, if present)
 2. Lower mounting bolt (2)
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13. Position transmission jack under air dryer. Raise jack to support dryer.
 14. If vehicle is NOT equipped with Hill Start Aid (HSA), remove nuts from upper pair of air dryer mounting bolts (Figure 4, Item 1).
 15. Remove nuts from two remaining mounting bolts (Figure 4, Item 2).



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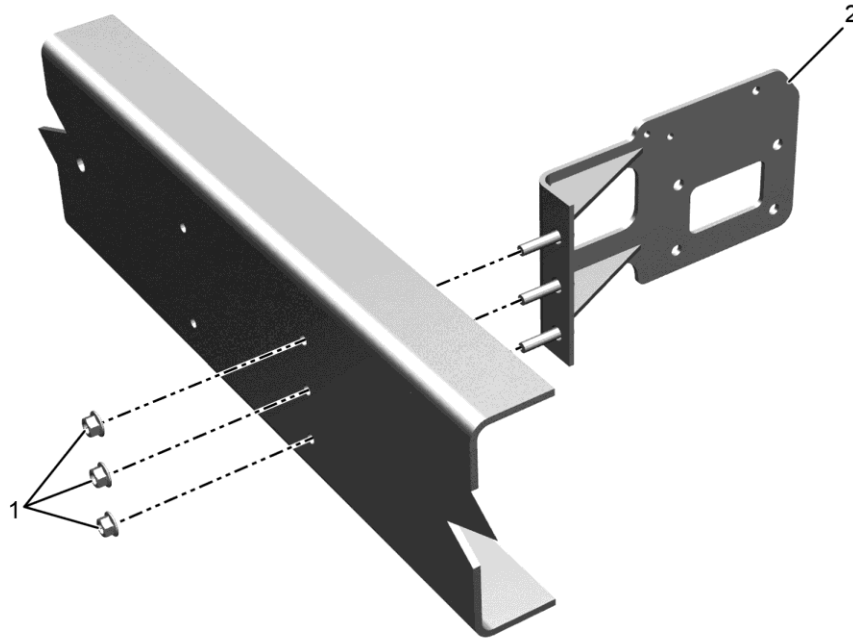
Figure 5. Air Line Hoses

1. Cut location

NOTE: Depending on vehicle application, the number of air lines running through air dryer bracket will vary.

NOTE: Use a plastic tubing cutter and make sure the air lines are cut squarely to the tubing. Using another type of tool or not cutting the tubes squarely can cause air leaks when the tubes are reassembled.

16. Mark and cut each air line hose running through air dryer bracket, stagger each cut by approximately 2 in (5 cm). Tubes should be cut squarely. Staggering cut locations (Figure 5, Item 1) helps prevent union installations from gathering in one location.

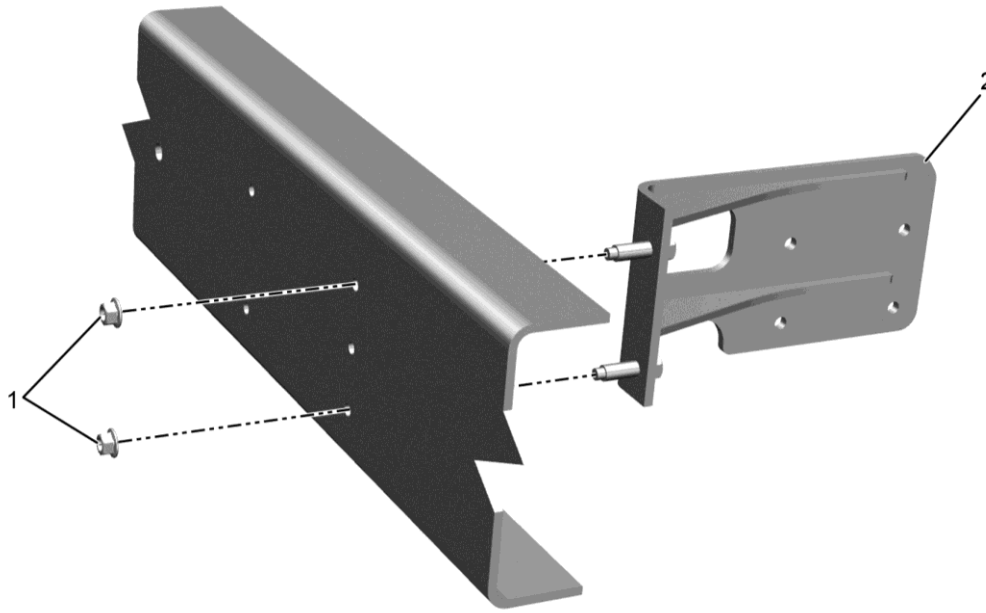


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Figure 6. Air Dryer Bracket (Old)

1. Air dryer mounting nut (3)
2. Air dryer bracket

17. Remove air dryer mounting nuts (Figure 6, Item 1), and remove bracket (Figure 6, Item 2).

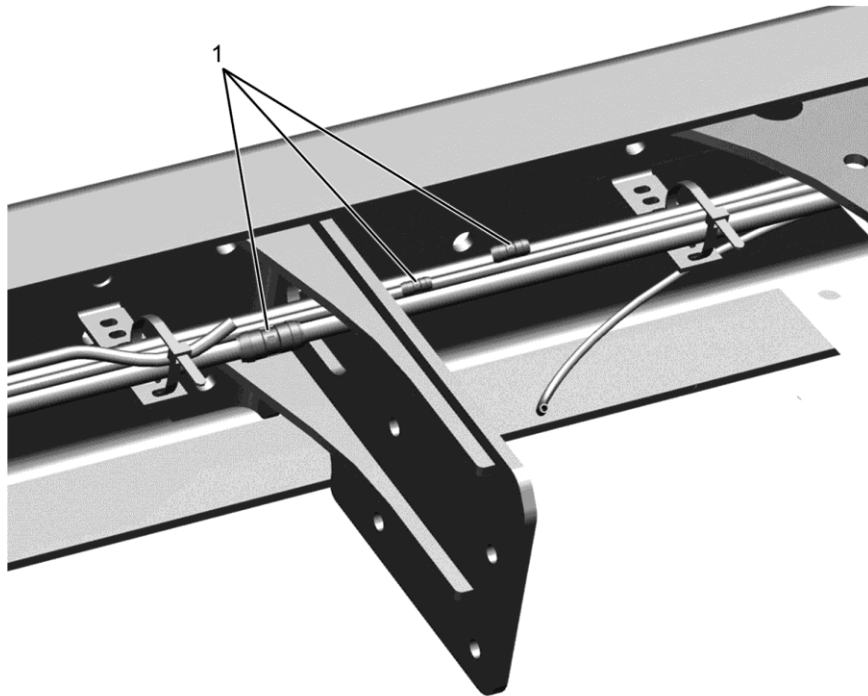


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Figure 7. Air Dryer Bracket (New)

- 1. M16 mounting nut (2)
- 2. Air dryer bracket

- 18. Install new air dryer mounting bracket (Figure 7, Item 2) and two M16 mounting nuts (Figure 7, Item 1). Using a torque wrench, tighten nuts to 159 - 175 lb-ft (215 - 237 N•m).



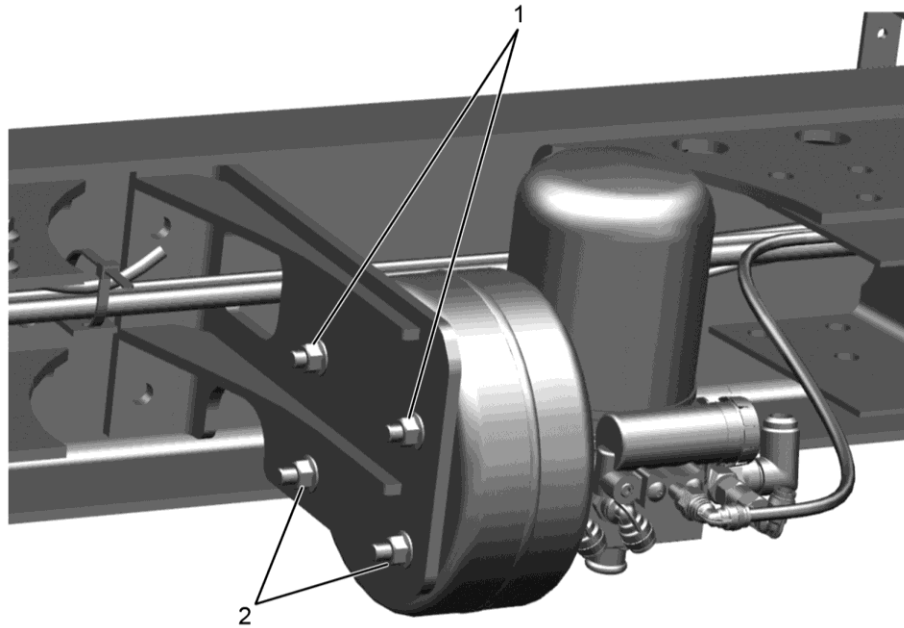
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Figure 8. Air Line Reconnection

1. Push to connect union (quantity may vary)

NOTE: Depending on vehicle application, the number of air lines running through air dryer bracket will vary.

19. Connect air lines previously cut for air dryer removal using push to connect unions supplied (Figure 8, Item 1).
20. Secure air lines with tie straps. Ensure new tie straps are not installed directly on connect unions added in Step 19.

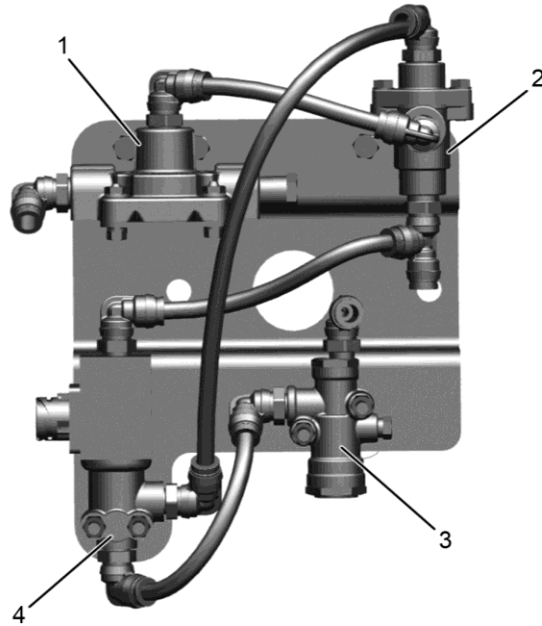


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Figure 9. Air Dryer with New Bracket

1. Upper mounting bolt (2)
2. Lower mounting bolt (2)

21. Carefully position air dryer on new air dryer bracket.
22. Install nuts on two lower mounting bolts (Figure 9, Item 2). Using a torque wrench, tighten nuts to 30 - 35 lb-ft (41 - 48 N•m).
23. If vehicle is NOT equipped with HSA, install nuts on two upper mounting bolts (Figure 9, Item 1). Using a torque wrench, tighten nuts to 30 - 35 lb-ft (41 - 48 N•m).
24. Connect previously removed air lines (Figure 3, Item 2) to air dryer (Figure 3, Item 1).
25. Lower transmission jack and remove from underneath vehicle.
26. If HSA equipped, proceed with next step. If not, proceed to Step 31.



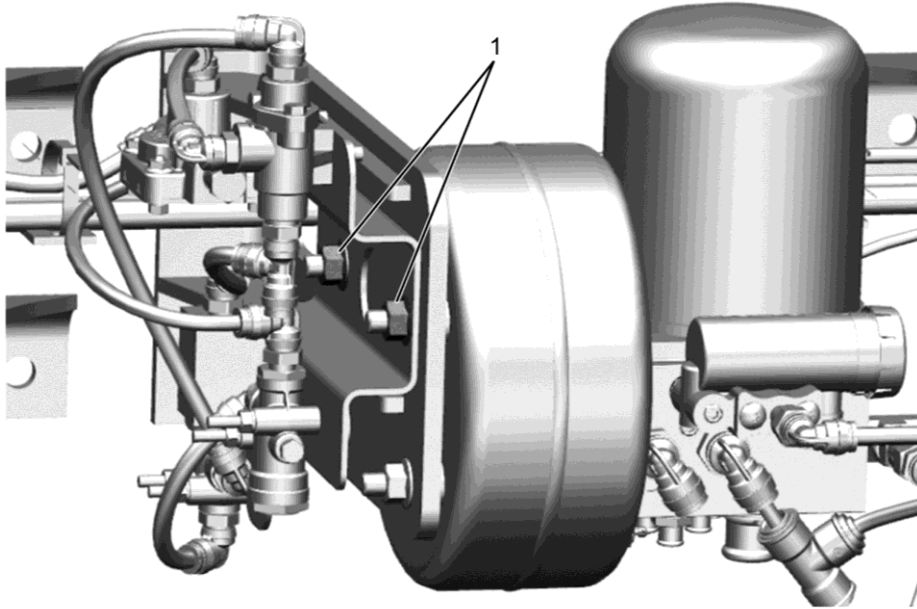
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Figure 10. HSA Valve Fasteners

1. Quick release valve (2 fasteners)
2. Double-check valve (2 fasteners)
3. Pressure limiting valve (2 fasteners)
4. HSA solenoid

NOTE: Leave double-check valve snug, allowing it just enough room to pivot. This is necessary to permit a torque wrench to be used in Step 28.

27. Transfer HSA valves (Figure 10, Items 1 - 4) from original bracket to new bracket. Using a torque wrench, tighten all valve fasteners (except those on double-check valve) to 115 lb-in (13 N•m).



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Figure 11. HSA Valve Bracket

1. Valve bracket nut (2)

28. Install HSA valve bracket to air dryer mounting bracket. Using a torque wrench, tighten nuts to 30 – 35 lb-ft (41 - 48 N•m).

29. Using a torque wrench, tighten double-check valve fasteners (Figure 10, Item 2) to 115 lb-in (13 N•m).

30. Connect remaining HSA air lines (Figure 1, Item 2) and HSA solenoid connector (Figure 1, Item 1) to HSA assembly.

31. Start engine and allow air tanks to fill. Check for air leaks and proper brake function.

32. Lower vehicle and remove jack stands.

33. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-17502-1	Replace Air Dryer Bracket; Without Hill Start	2.7 hrs
A40-17502-2	Replace Air Dryer Bracket; With Hill Start	3.6 hrs

CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected in accordance with this campaign must be marked with a CTS-1075 Campaign Identification Label.

Complete the label and attach on a clean surface next to the vehicle identification number (VIN) plate.

DO NOT REMOVE
INTERNATIONAL
Campaign No.
VIN Eng.#
COMPLETED
Service Location Code #
DO NOT REMOVE

ADMINISTRATIVE / DEALER RESPONSIBILITIES

WARRANTY CLAIMS

Warranty claim expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Safety Recall 17502.

Section 7 of the Warranty Policy and Procedures Manual contains further information related to the submission and processing of AFC / Recall claims.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP — Enter number						
NOUN — Leave blank						
C (CAUSE) — Enter either 1, 2, 3. (See below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY — (Warranty Code) Enter 40.						
TYPE PART — Enter P for type part causing failure.						
PAD — Enter 100						

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UNITED STATES AND POSSESSIONS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle that is subject to a vehicle recall campaign must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after a tender of a vehicle is prima facie evidence of failure to repair within a reasonable time. If the condition is not adequately repaired within 60 days, the owner may be entitled to replacement with an identical or reasonable equivalent vehicle at no charge, or to a refund of the purchase price less a reasonable allowance for depreciation.

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

CANADA

Dealers must correct all vehicles subject to this campaign at no charge to the owner, regardless of mileage, age of vehicle, or ownership, from this time forward.

Dealers should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your dealer location.

Dealers must make every effort to promptly schedule an appointment with each owner to repair his or her vehicle as soon as possible. However, consistent with the customer notification, dealers are expected to complete the repairs on the mutually agreed upon service date.

Dealers involved in the recall process will be furnished a listing of owner names and addresses to enable them to follow up with owners and have the vehicles corrected. Use of this listing must be limited to this campaign because the list may contain information obtained from state motor vehicle registration records, and the use of such motor vehicle registration data for purposes other than this campaign is a violation of law in several states.

EXPORT

Export Distributors should proceed immediately to make necessary correction to units in inventory. All inventory vehicles subject to this recall campaign must be corrected prior to sale, transfer or delivery. If vehicles have been sold or transferred and you are in receipt of Customer Notification Letters and Authorization for Recall Service cards for those vehicles, the transfer location or customer must be notified immediately from your distributor location.

Export Distributors are to submit warranty claims in the usual manner making reference to this recall number.

Export Distributors are expected to provide full cooperation and follow-up with respect to this important subject matter. If you have any questions or need further assistance, please contact the Regional Service Manager at your regional office.

NAVISTAR, INC.