

SERVICE PROCEDURE

17505
October 2017

SUBJECT: **SAFETY RECALL**
Hydraulic Brake Drop Hose Routing on certain CE
school bus models built 07 July 2017 thru 02
August 2017 with hydraulic brakes

CUSTOMER LETTER

Print ready (PDF file) copy of the [Customer Letter](#)

DEFECT DESCRIPTION

The hydraulic brake drop hose to the brake calipers on the steer axle wheel ends may be improperly routed, resulting in possible contact with the tire. Contact between the drop hose and the wheel may cause abrasion damage to the hose and a possible hydraulic leak, resulting in a pull condition during brake application or an unexpected increase in stopping distance and may contribute to a vehicle crash.

MODELS INVOLVED

This safety recall involves certain CE school bus models built 07 July 2017 through 02 August 2017 with hydraulic brakes.

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with Safety Recall 17505. Also complete any other open campaigns listed on the Service Portal at this time.

PARTS INFORMATION

Part Number	Part Description	Quantity
3870758C2	Hose, Hyd Brake Front	If required

SERVICE PROCEDURE

GOVERNMENT REGULATION: Engine fluid (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluid and other contaminated materials (such as filters and rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.

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.

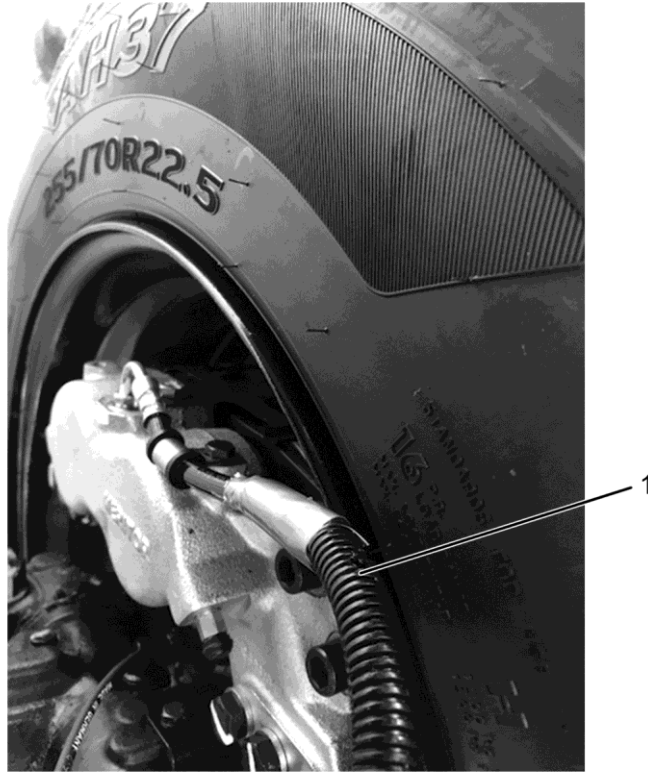
WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

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.

1. Park vehicle on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Turn vehicle ignition to Key OFF position.
4. Install wheel chocks.
5. Unlatch and open hood.

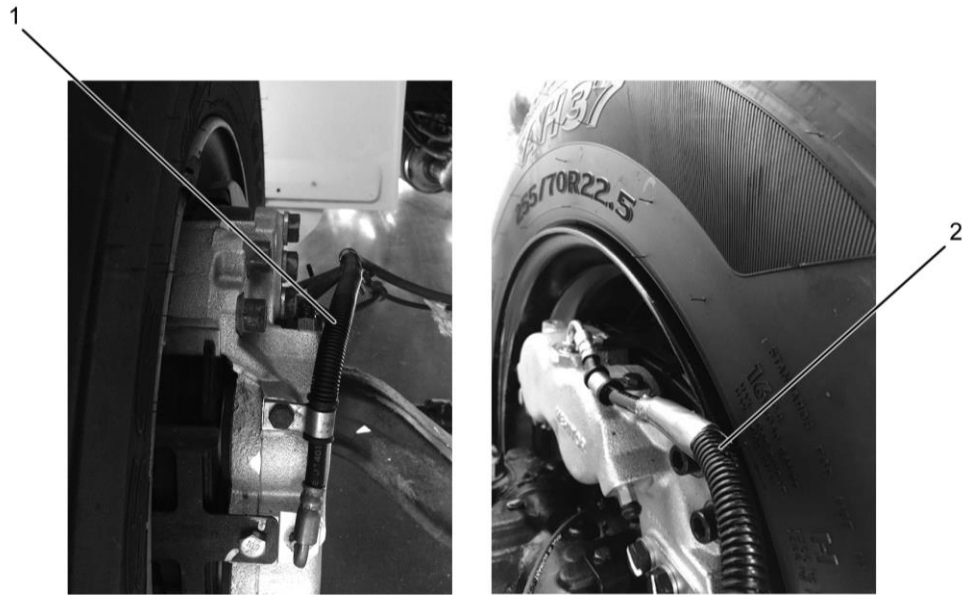


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Figure 1. Hydraulic Brake Hose and Wheel Clearance

1. Hose

6. Inspect both front axle hydraulic brake hoses (Figure 1, Item 1) for clearance to wheel.



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Figure 2. Brake Hose Routing

1. P/N 3870758C2
2. P/N 3870758C3

7. If there is damage, the hose must be replaced prior to performing the following steps. Refer to the service manual for detailed instructions.
8. Determine the part number of the brake hose. The hose ships from the factory with a label indicating its part number. If this label is no longer present, P/N 3870758C3 can be identified by the fact that it is significantly longer than P/N 3870758C2, causing it to bow inward (towards the wheel) or outward (away from the wheel).
 - a. If the part number is 3870758C2 (Figure 2, Item 1), no further action is required. Proceed to Step 17.
 - b. If the part number is 3870758C3 (Figure 2, Item 2), proceed to Step 9.



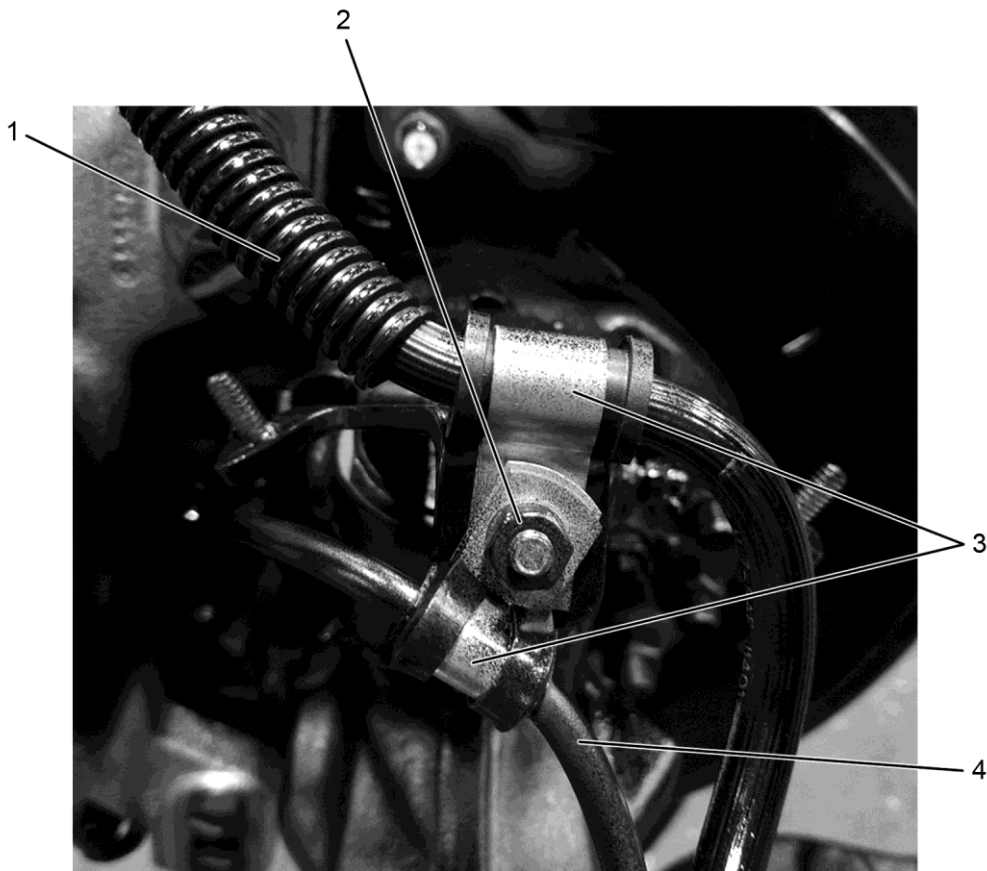
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Figure 3. Hydraulic Brake Hose Routing

1. Incorrect hose routing for 3870758C3
2. Correct hose routing for 3870758C3
3. ABS harness
4. Brake line

NOTE: When mounted correctly, the ABS harness (Figure 3, Item 3) will be in the top position and the brake line (Figure 3, Item 4) will be in the lower position.

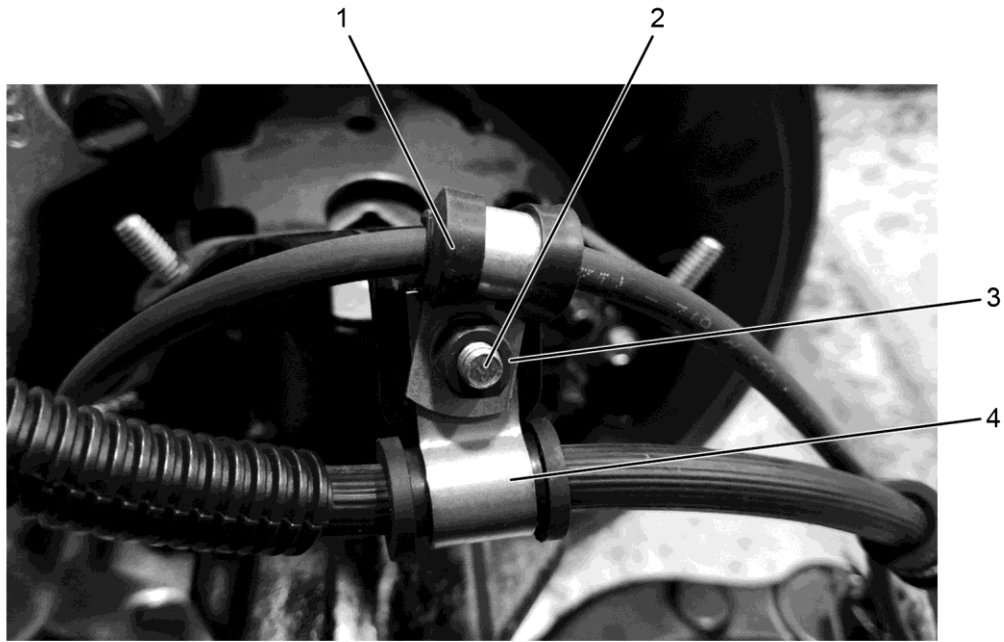
9. Inspect the hose 3870758C3 for proper routing and clipping of the hose.
 - a. If the hose is routed correctly (Figure 3, Item 2), there are no additional actions required. Proceed to step 17.
 - b. If the hose is routed incorrectly (Figure 3, Item 1), proceed to Step 10.



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Figure 4. ABS Harness in Bottom Position (Incorrect)

1. Brake line
 2. Nut and lock washer
 3. P clamp (2)
 4. ABS harness
10. Using a 7/16-in socket or wrench, remove the nut and lock washer (Figure 4, Item 2) that secures the ABS harness (Figure 4, Item 4) and brake line (Figure 4, Item 1) to the king pin. Retain the nut and lock washer for reassembly.
 11. Remove the P clamps (Figure 4, Item 3) that secure the ABS harness and the brake line to the king pin from the post



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Figure 5. ABS Harness in Top Position (Correct)

1. ABS P clamp
 2. Mounting stud
 3. Nut and lock washer
 4. Brake line P clamp
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12. Reinstall the ABS P clamp (Figure 5, Item 1) so the mounting portion is pointing down.
 13. Reinstall the P clamp (Figure 5, Item 4) on the brake line with the mounting portion pointing upward, making sure the rubber grommet is touching the loom on the hose.
 14. Reinstall the ABS harness and brake P clamps to the mounting stud (Figure 5, Item 2) on the king pin in the position shown.
 15. Install the lock nut and washer (Figure 5, Item 3) and tighten to 90 – 100 lb-in (10.2 – 11.3 N•m).
 16. Make sure the ABS harness and brake hose line do not touch. If they do, adjust the P clamps to prevent them from contacting each other.
 17. Close and latch hood.
 18. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-17505-1	Inspect Brake Hoses Only	0.3 hrs
A40-17505-2	Inspect and Reroute Hoses	0.6 hrs
A40-17505-3	Inspect, Reroute One Hose, Replace One Hose, and Bleed Brakes	0.9 hrs
A40-17505-4	Inspect, Replace Two Hoses, and Bleed Brakes	1.1 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.



A rectangular label template with a black border. At the top and bottom, it says "DO NOT REMOVE" in white capital letters. In the center, there is a white rectangular area with a black border. Inside this white area, the word "INTERNATIONAL" is printed in bold black capital letters. Below it, the text "Campaign No." is followed by a blank line. Then "VIN" is followed by a blank line, and "Eng.#" is followed by a blank line. Below these, the word "COMPLETED" is printed in bold black capital letters, followed by "Service Location Code #" followed by a blank line.

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 17505.

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.

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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.