

SERVICE PROCEDURE

18520

January, 2019

SUBJECT: SAFETY RECALL
Brake Pressure Switch on certain IC Bus® CE Series school bus models built 04 December 2017 thru 29 March 2018 with feature code 0004JNU (Automatic; Hydraulic Brake System).

DEFECT DESCRIPTION

The brake pressure switch on these buses may become stuck, which results in a false fault code and brake warning light. There is no direct safety consequence because the brake system continues to function normally. However, in certain situations, a brake warning light on a school bus that is carrying students may require the driver to immediately pull over and transfer students to another bus which could cause hazards with students near the roadway for an indeterminate amount of time.

MODELS INVOLVED

This safety recall involves certain CE school bus models built 04 December 2017 thru 29 March 2018 with feature code 0004JNU (Automatic; Hydraulic Brake System).

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with safety recall 18520. Also complete any other open campaigns listed on the Service Portal at this time.

PARTS INFORMATION

Part Number	Part Description	Quantity
4052584C1	SWITCH, BRAKE PRESSURE	1

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 State and Federal regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable State and Federal regulations.

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

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

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

WARNING! To prevent personal injury, and / or death, or damage to property, keep flames, sparks, or other heat sources away from the vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel gases which may cause an explosion resulting in personal injury/death, or damage to property, avoid contact with any heat sources.

WARNING! To prevent personal injury, and / or death, or damage to property, 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. Turn vehicle ignition to Key OFF position.

4. Install wheel chocks.
5. Unlatch and open hood.

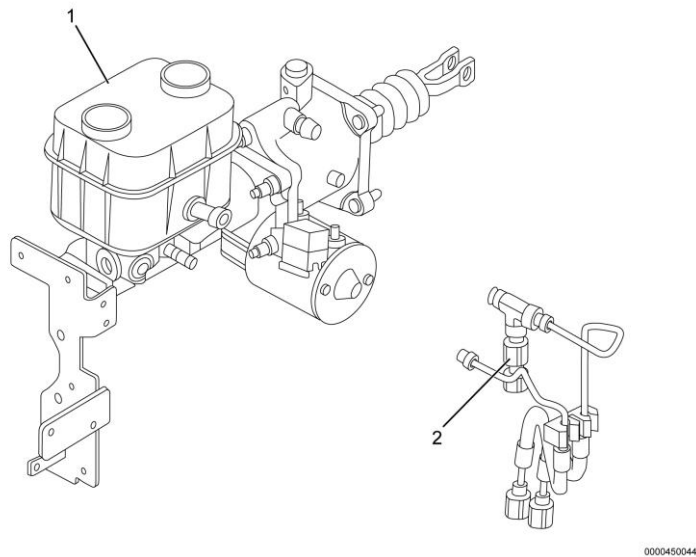
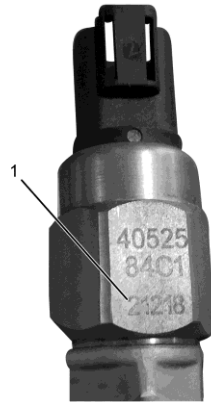


Figure 1. Master Cylinder Assembly

1. Master cylinder assembly
 2. Brake pressure switch
6. Locate brake pressure switch (Figure 1, Item 2) on master cylinder assembly (Figure 1, Item 1).



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Figure 2. Brake Pressure Switch

1. Lot number location
7. Inspect brake pressure switch for suspect lot number 25717 (Figure 2, Item 1).
 - a. If brake pressure switch does not have suspect lot number 25717, proceed to Step 12.
 - b. If brake pressure switch does have suspect lot number 25717, continue with Step 8.

NOTE: Make sure the replacement brake pressure switch is at hand and ready to install before removing the suspect brake pressure switch. When replacing the brake pressure switch, it is not necessary to bleed the brake system.

8. Disconnect brake pressure switch connector.
9. Remove brake pressure switch.
10. Install new brake pressure switch. Tighten to 34 - 37 lb-ft (46 - 50 N•m).
11. Reconnect brake pressure switch connector.
12. Close and latch hood.
13. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

Operation Number	Description	Time
A40-18520-1	Inspect Brake Pressure Switch Only	0.3 hr
A40-18520-2	Inspect and Replace Brake Pressure Switch	0.4 hr

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 black and white form for a campaign identification label. It has a black border with the text "DO NOT REMOVE" at the top and bottom. Inside, the word "INTERNATIONAL" is printed in bold. Below it, there are fields for "Campaign No.", "VIN", and "Eng.#". Further down, the word "COMPLETED" is printed in bold, followed by a field for "Service Location Code #".

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 18520.

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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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.