

SERVICE PROCEDURE

19506
July 2019

SUBJECT: SAFETY RECALL
Left-side rear caliper on certain CE and RE school bus models built 11 March 2015 thru 30 April 2018 with Bendix ADB 22X brake calipers.

DEFECT DESCRIPTION

The ADB22X caliper on the left-side rear corner on school bus applications may experience an unintended reduction in running clearance during operation, which can lead to a dragging brake. The problem occurs intermittently. A dragging brake may cause overheating, resulting in thermal damage to the brake components and wheel speed sensor.

MODELS INVOLVED

This safety recall involves certain CE and RE school bus models built 11 March 2015 thru 30 April 2018 with Bendix ADB 22X brake calipers.

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with Safety Recall 19506. Also complete any other open campaigns listed on the Service Portal at this time.

PARTS INFORMATION

| Part Number | Part Description | Quantity |
|--------------------|--------------------------|-----------------|
| 8900282R91 | Left Rear Caliper Kit | 1 |
| BX801549 | Transmitter Speed Sensor | 1 (If Required) |
| BXK070796 | Brake Pad | 1 (If Required) |

8900282R91 contains the following parts:

| Part Description | Quantity |
|-------------------|----------|
| Bolt HH M20 X 60 | 6 |
| Washer 21.8 X 370 | 6 |
| Caliper | 1 |

SERVICE PROCEDURE

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

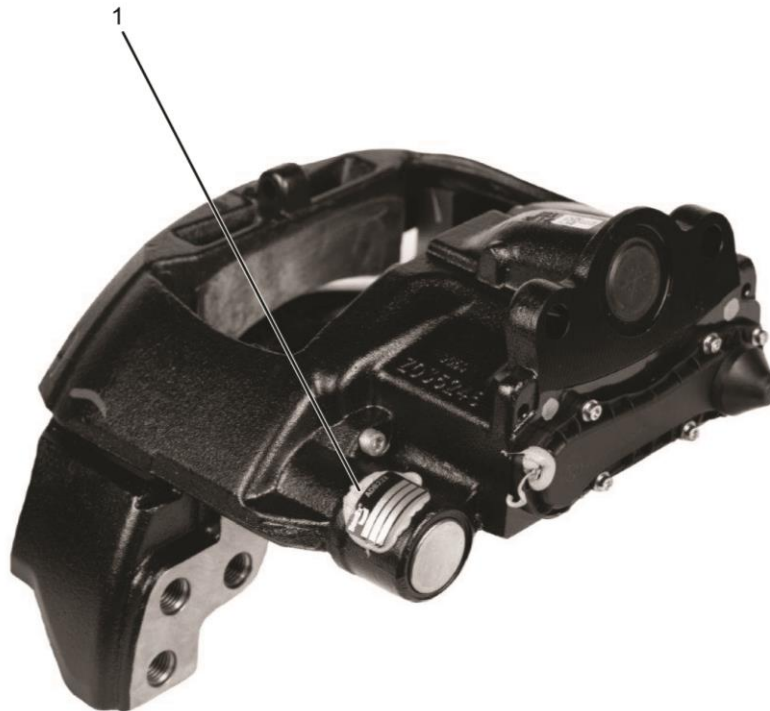
WARNING! To prevent personal injury and / or death, or damage to property, allow engine / vehicle components to cool before servicing.

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

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.

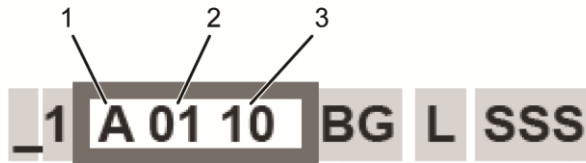
4. Install wheel chocks.
5. If the cluster ABS light is on, perform diagnostics for that indicator.
 - a. If diagnostics indicate that the left-side rear speed sensor should be replaced, make note of the fact that the sensor must be replaced later. Proceed to Step 6.
 - b. If diagnostics indicate a different reason than the left-side rear speed sensor for the ABS light, diagnostics and repairs should be in a separate repair section from this recall. Proceed to Step 6.
6. Raise rear of vehicle and support on jack stands.
7. Release parking brake.
8. Remove left-side rear wheel from vehicle.



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Figure 1. Caliper
1. Identification label

9. Locate the identification label (Figure 1, Item 1) on the fixed pin area of the caliper casing.



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Figure 2. Serialized Production Code

1. Month
2. Day
3. Year

10. Identify the date of manufacture fields in the Serialized Production Code (Figure 2). These fields include the following:

- Month (Figure 2, Item 1). A = Jan, B = February, and so on. The letter I is skipped. So, J = September.
- Day (Figure 2, Item 2) written as two digits.
- Year (Figure 2, Item 3) written as two digits.

11. Compare date on label to suspect manufacture date range of 03 November 2015 thru 30 April 2018.

- a. If date on label is not in suspect manufacture date range, proceed to Step 20.
- b. If date on label is in suspect manufacture date range, proceed to Step 12.

12. Disconnect air hose from brake chamber.

13. Remove caliper and discard mounting hardware. Refer to appropriate service manual for detailed instruction.

14. Did diagnostics in Step 5 recommend replacing left-side rear speed sensor?

- a. If yes, replace sensor and proceed to Step 15.
- b. If no, proceed to Step 15.

15. Inspect left-side rear break pad.

- a. If thickness variation between the inboard and outboard pad is greater than or equal to 0.14 in (3.5 mm), proceed to Step 16.
- b. If variation is less than 0.14 in (3.5 mm), proceed to Step 17.

16. Replace rear left-side and right-side brake pads. Refer to appropriate service manual for detailed instruction.
17. Install new caliper assembly on left-side only. Refer to appropriate service manual for detailed instructions.
18. Install new caliper mounting bolts and washers. Using a torque wrench, tighten bolts to 350 to 400 lb-ft (475 to 542 N•m) using a crisscross pattern sequence.
19. Reinstall air hoses.

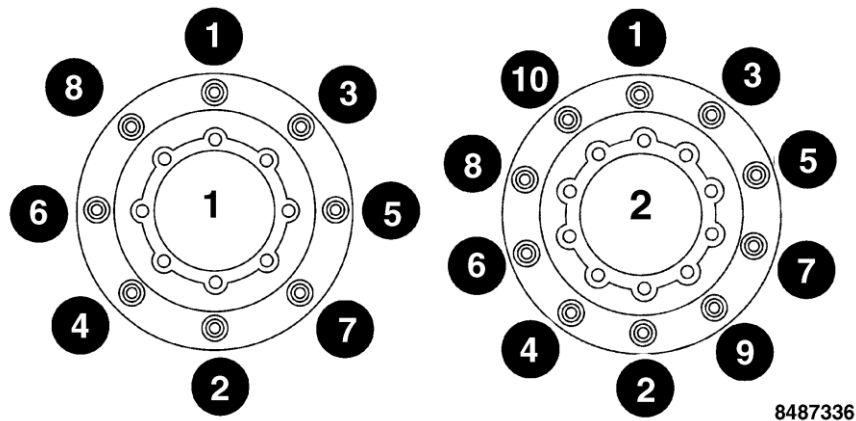


Figure 3. Wheel Torque Sequence

1. Flange nut mount – 8 stud
2. Flange nut mount – 10 stud

20. Install tires, wheel assemblies and wheel nuts. Refer to appropriate service manual for instructions. Draw up nuts alternately following crisscross pattern sequence (Figure 3). Do not fully tighten nuts at this time. This procedure will allow uniform seating of nuts and ensure even, face-to-face contact of wheel and hub.
21. Adjust brakes.
22. Raise vehicle, remove jack stands, and lower vehicle.
23. Set parking brake.
24. Using a torque wrench, tighten wheel nuts to 450 to 500 lb-ft (610 to 678 N•m).
25. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

| Operation Number | Description | Time |
|-------------------------|---|-------------|
| A40-19506-1 | Inspect date codes only | 0.5 hr |
| A40-19506-2 | Inspect and replace left rear caliper only | 1.1 hrs |
| A40-19506-3 | Add on: Diagnose ABS, replace speed sensor and brake pads | 0.8 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.



The image shows a black rectangular label with white text. At the top, it says "DO NOT REMOVE". Below that, in a white rounded rectangle, it says "INTERNATIONAL". Underneath, there are fields for "Campaign No.", "VIN", "Eng.#", "COMPLETED", and "Service Location Code #". At the bottom, it says "DO NOT REMOVE".

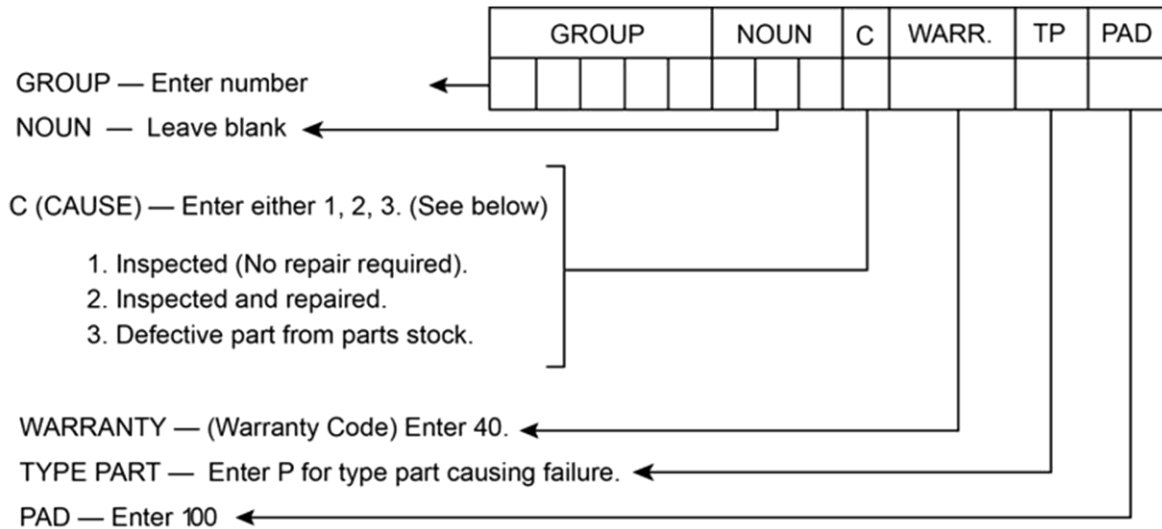
ADMINISTRATIVE / DEALER RESPONSIBILITIES

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 19506.

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.



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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,

VEHICLE RECALL 19506

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.