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Compliance Dept.

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SERVICE PROCEDURE

18504

June, 2018

SUBJECT: SAFETY RECALL

Brake Air Line Routing on certain International® HX® Series trucks built 08 December 2015 thru 10 February 2018 with feature code 04091 (dual air brake system) and 04AZY (Antilock Brake System [ABS] with 6 channel Electronic Stability Protection [ESP])

DEFECT DESCRIPTION

The roll stability valve air supply line may be incorrectly routed. This condition does not affect normal brake operation. However, during a stability control oversteer event and with slippery road conditions, the parking brakes may be modulated unintentionally. Modulation of the parking brake during a stability control oversteer event could lead to loss of control or a vehicle crash.

MODELS INVOLVED

This Safety Recall involves certain International® HX® Series trucks built 08 December 2015 thru 10 February 2018 with feature code 04091 (dual air brake system) and 04AZY (Antilock Brake System [ABS] with 6 channel Electronic Stability Protection [ESP]).

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service Portal™ with Safety Recall 18504. Also complete any other open campaigns listed on the Service Portal at this time.

PARTS INFORMATION

| Part Number | Part Description | Quantity |
|-----------------------------|---------------------------------------|-------------------|
| 2017498C2 | TEE 3/8 PTC x 1/4 MPT x 3/8 PTC | 1 |
| 2017507C1 | FITTING, HOSE COUPLING PTC 3/8" TUBE | 1 |
| 20990R1 | FITTING, PLUG 3/8" NPT | 1 |
| 2643441R2 or Source Locally | HOSE, FLEX AIR NYLON, (3/8 OD-ORANGE) | 7-inches (180 mm) |

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.

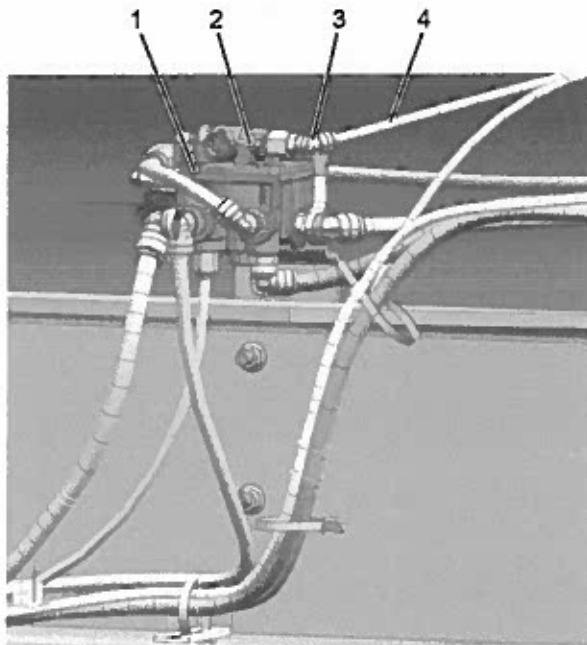
WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

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.

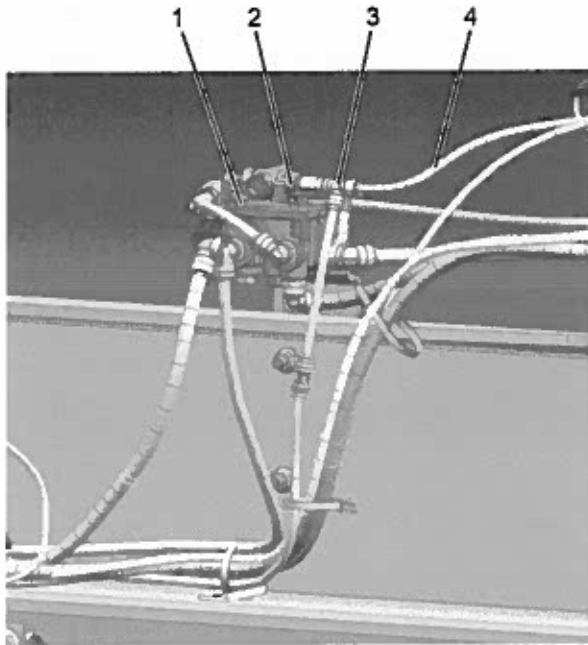
1. Park vehicle on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Turn Ignition to Key OFF position.
4. Install wheel chocks.
5. Locate and gain access to Antilock Traction Relay (ATR-6) valve under vehicle.



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Figure 1. ATR-6 Valve

1. ATR-6 valve
 2. Control port
 3. 45-degree fitting
 4. 3/8-inch ORANGE airline
6. Disconnect ORANGE 3/8-inch airline (Figure 1, Item 4) from 45-degree fitting (Figure 1, Item 3) of ATR-6 control port (Figure 1, Item 2).
7. Remove and discard 45-degree fitting (Figure 1, Item 3) from ATR-6 control port (Figure 1, Item 2).



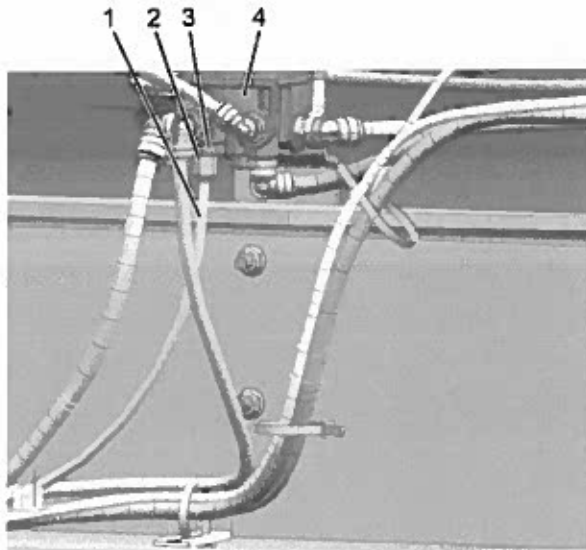
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Figure 2. Tee-Fitting

1. ATR-6 valve
2. Control port
3. 3/8-inch T-fitting
4. 3/8-inch ORANGE airline

NOTE: Always assemble Dryseal American Standard Taper Pipe Thread fittings into internal thread until hand tight and then an additional 1 1/2 to 2 full revolutions. Do not back off (loosen) fitting.

8. Install new 3/8-inch T-fitting (Figure 2, Item 3) into ATR-6 control port (Figure 2, Item 2) and hand tighten nut.
9. Tighten fitting 1-1/2 to 2 full revolutions.
10. Install ORANGE 3/8-inch airline (Figure 2, Item 4) into 3/8-inch T-fitting (Figure 2, Item 3).



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Figure 3. ATR-6 Steer Axle Delivery

1. 3/8-inch ORANGE airline
2. 3/8-inch fitting
3. Steer axle delivery port
4. ATR-6 valve

11. Disconnect ORANGE 3/8-inch airline (Figure 3, Item 1) from 3/8-inch fitting (Figure 3, Item 2) of ATR-6 steer axle delivery port (Figure 3, Item 3).
12. Remove and discard 3/8-inch fitting (Figure 3, Item 2) from ATR-6 steer axle delivery port (Figure 3, Item 3).

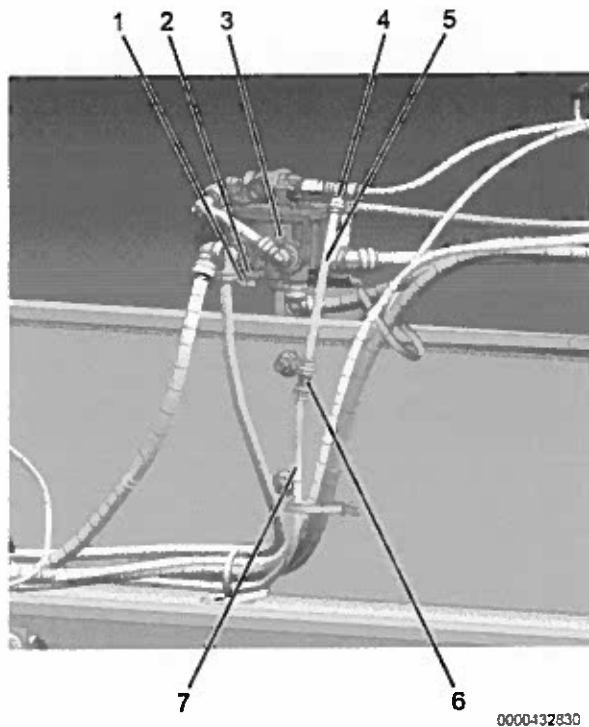


Figure 4. ATR-6 Connections

1. 3/8-inch plug
2. ATR-6 steer axle delivery port
3. ATR-6 valve
4. 3/8-inch T-fitting
5. 7-inch (180 mm) length 3/8-inch ORANGE airline
6. 3/8-inch coupler
7. Lower 3/8-inch ORANGE airline

NOTE: Always assemble Dryseal American Standard Taper Pipe Thread fittings into internal thread until hand tight and then an additional 1 1/2 to 2 full revolutions. Do not back off (loosen) fitting.

13. Install 3/8-inch plug (Figure 4, Item 1) into ATR-6 steer axle delivery port (Figure 4, Item 2) and tighten until plug is hand tight.
14. Tighten plug 1 1/2 to 2 full revolutions.
15. Install one end of 7-inch (180 mm) length 3/8-inch ORANGE airline (Figure 4, Item 5) into 3/8-inch coupler (Figure 4, Item 6).
16. Install 3/8-inch coupler (Figure 4, Item 6) onto lower 3/8-inch ORANGE airline (Figure 4, Item 7).

17. Install remaining end of 7-inch (180 mm) length 3/8-inch ORANGE airline (Figure 4, Item 5) into 3/8-inch T-fitting (Figure 4, Item 4).
18. Verify no air leaks are present when pedal is depressed.
19. Remove wheel chocks.

END OF SERVICE PROCEDURE

LABOR INFORMATION

| Operation Number | Description | Time |
|-------------------------|--|-------------|
| A40-18504-1 | Correct Airline Routing to ATR-6 Valve | 1.0 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

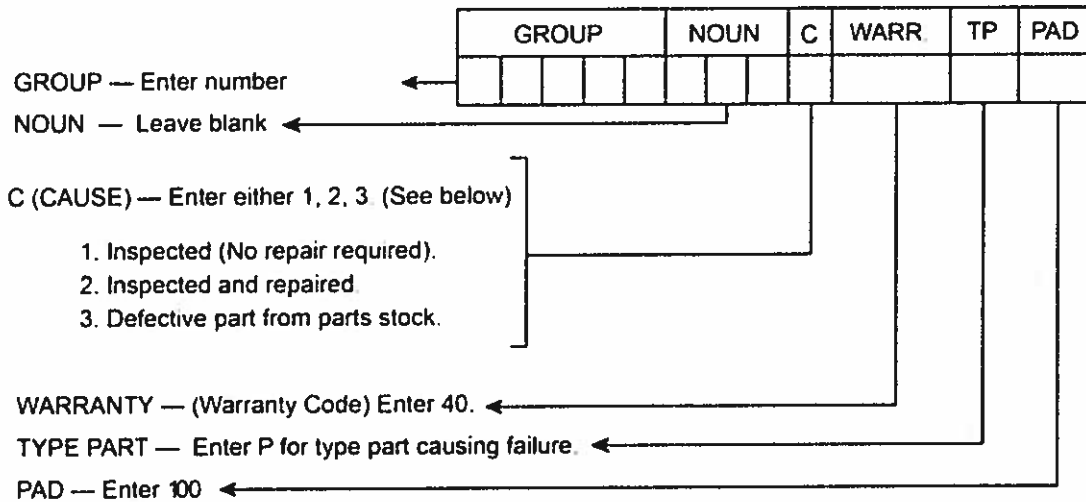
ADMINISTRATIVE / DEALER RESPONSIBILITIES

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 18504.

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,

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.

VEHICLE RECALL 18504

