

# SAFETY RECALL

Volvo Trucks North America  
Greensboro, NC USA

**VOLVO**

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Date	Number	Release	Page
03.2015	RVXX1501	01	1 (13)

**Brake Chamber**

**VHD, VNL, VNM**

## SAFETY RECALL INFORMATION:

(March 2015)

During the assembly of the Life Seal actuator unit in the Halidex brake chamber, the internal rubber diaphragm may not have been fully seated in the spring piston of the parking brake section. Improper seating of the rubber diaphragm may cause internal air leakage from the service section past the diaphragm and potentially trap air (buildup air pressure) in the parking brake section. If the trapped air is not vented, the buildup in air pressure may prevent full release of the actuator unit. Additionally, the trapped air may induce dragging, overheated wheel end foundation service brakes, and may increase the risk of fire.

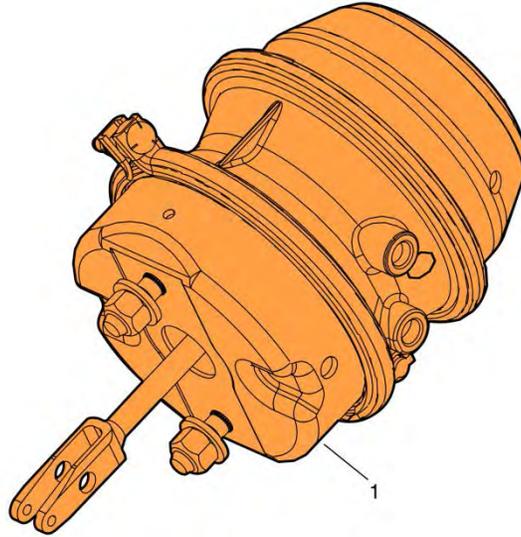
VOLVO Trucks has received no reports of personal injury as a result of this condition. Therefore, VOLVO considers this as a proactive measure to protect the public and VOLVO's customers from the potential risk associated with this defect.

## VEHICLES AFFECTED:

Certain 2015 VOLVO VHD, VNM, and VNL model trucks manufactured from May 20, 2014 through November 12, 2014, equipped with a Haldex Life Seal brand 30/30 long stroke brake actuator.

## VEHICLE IDENTIFICATION NUMBERS (VIN):

The number of vehicles affected by this recall is 898 (670 USA, 186 Canada, and 42 Mexico).



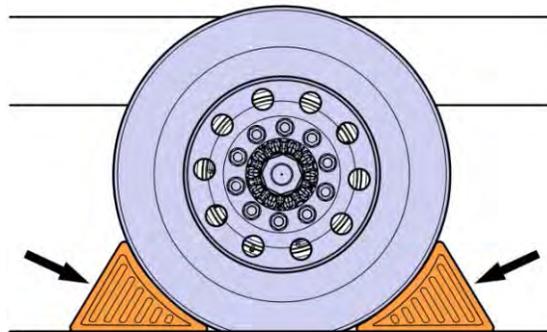
**Required Parts:**

To schedule parts orders and repairs, please call (877) 986-5862 with the Vehicle Identification Number (VIN) of the vehicle in need of this repair. The parts for this repair will not be available until April 15, 2015.

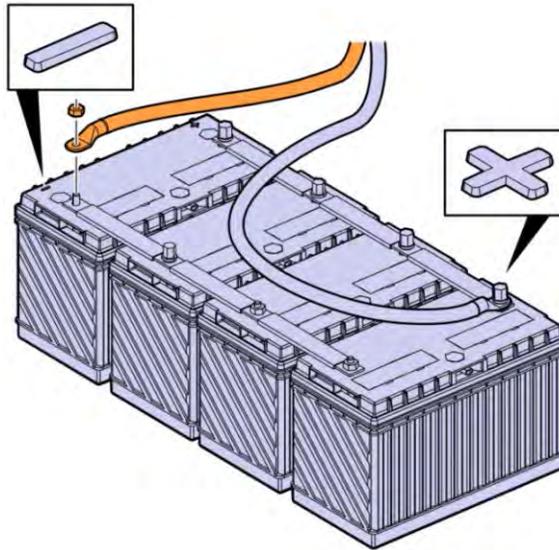
Item	PART NUMBER	QTY	DESCRIPTION
1	85145824	2 Per Axle	Brake Chamber, Halidex

**Decommissioning the Truck for Inspection or Repair:**

1. Secure the vehicle for service by parking on a flat and level surface, placing the transmission in neutral, applying the parking brake, turning the ignition key to the OFF position, and chocking the front wheels.



2. Disconnect the cable from the battery's negative (ground) terminal.



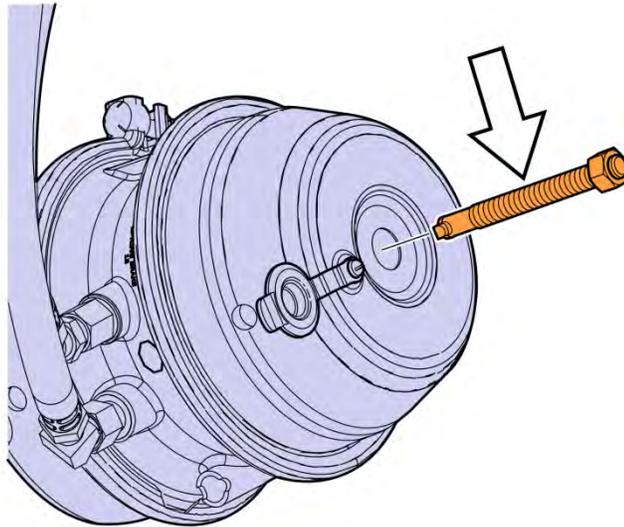
**Brake Chamber Replacement Procedure:**

<b>NOTE</b>
The Illustrations shown in this document are used for reference only and may differ slightly from the actual vehicle being serviced. However, the replacement procedure represented as accurately as possible.

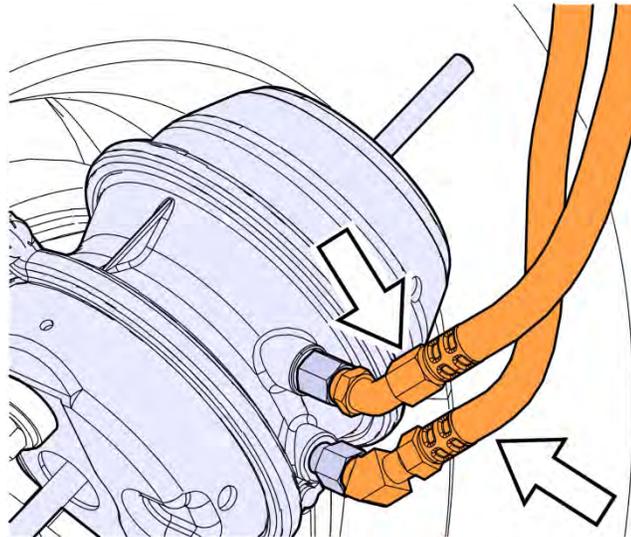
 <b>DANGER</b>
Park brake chambers are under extreme pressure and safe work practices should be observed. If instructions are not followed correctly, personal injury or death will occur.

1. Drain the complete air system of all pressure.

2. Cage the brake chamber.



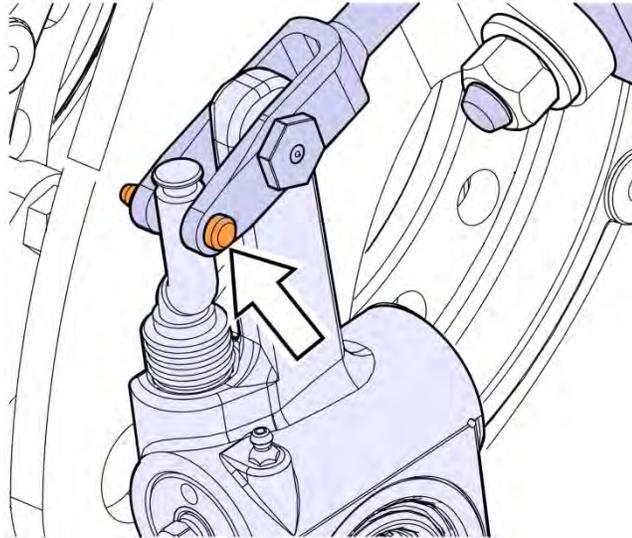
3. Disconnect the park brake and service supply air lines from the park brake chamber.



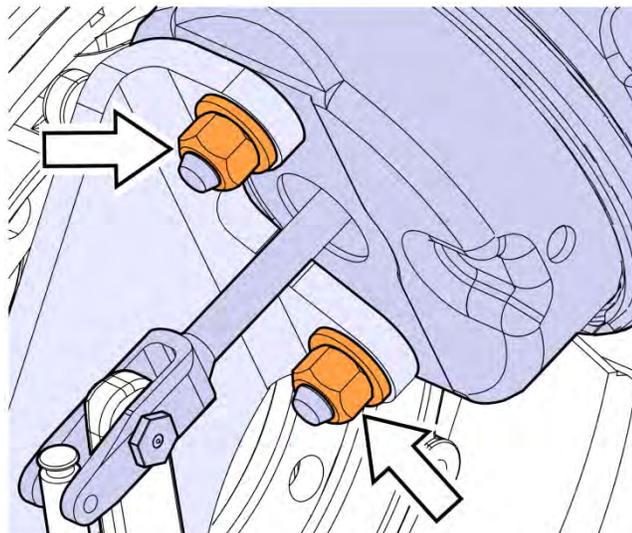
4. If applicable, remove the cotter pin and clevis pin from the park brake chamber rod.

**NOTE**

Do not discard the clevis pin. Clean and store for reuse.



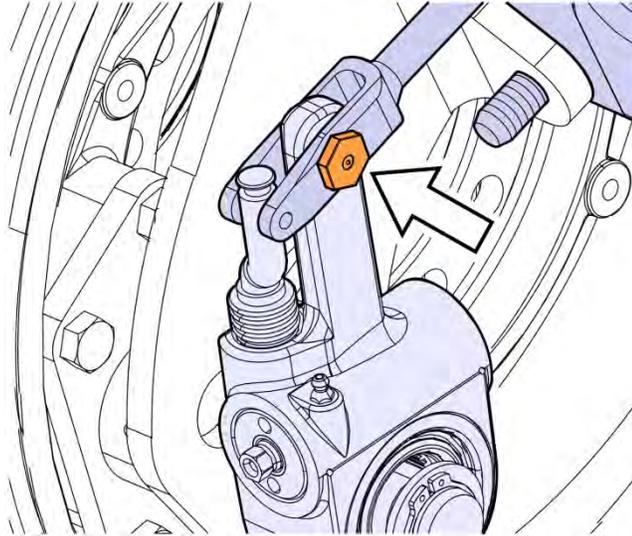
5. Remove the two nuts and washers from the park brake studs.



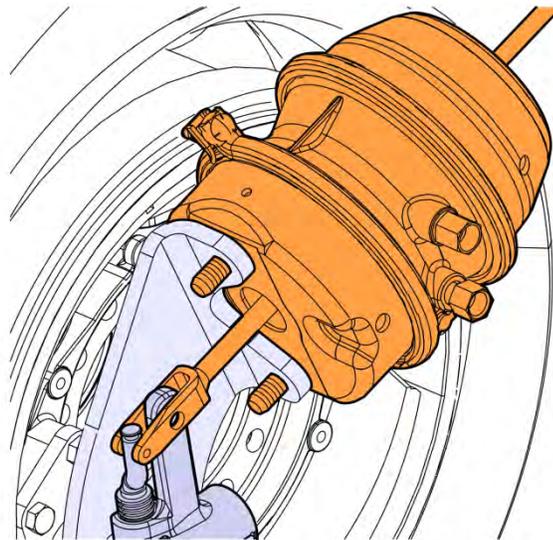
6. Remove the cotter pin and clevis pin from the slack adjuster.

<b>NOTE</b>
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Do not discard the clevis pin. Clean and store for reuse.
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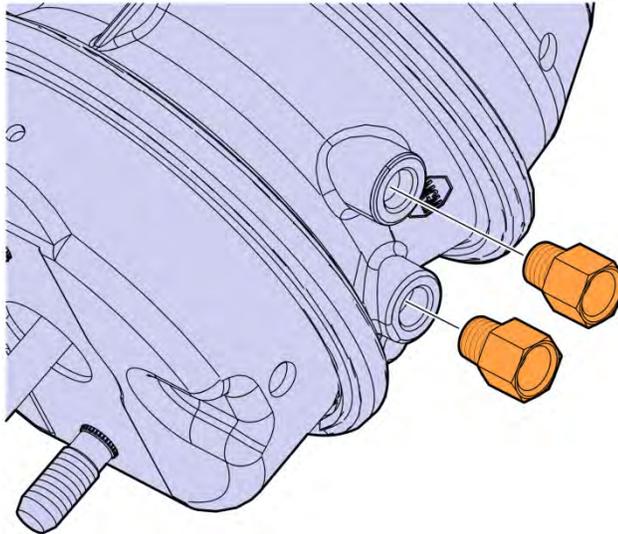


7. Remove the existing park brake chamber.

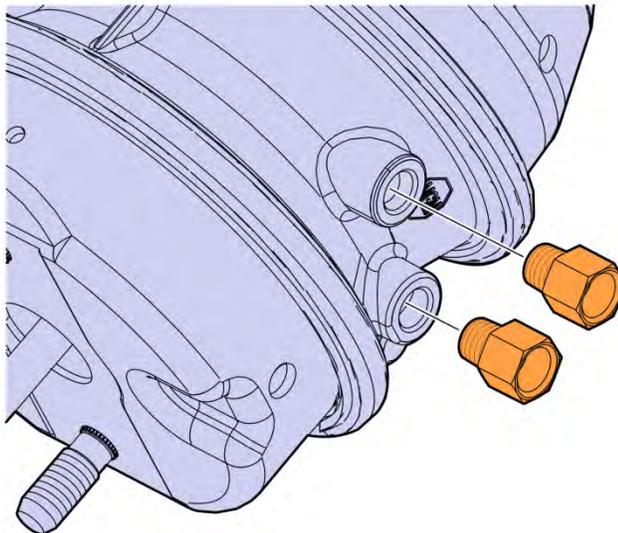


8. Remove the fittings from the existing park brake chamber.

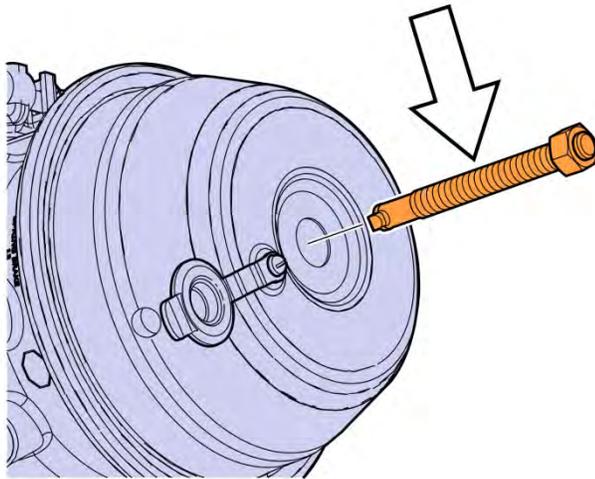
<b>NOTE</b>
Clean the fittings of any debris and store them for reuse.



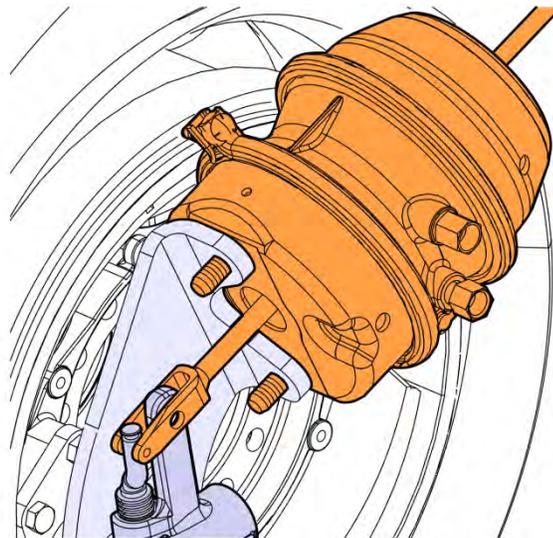
9. Using thread sealant, install the fittings on the replacement park brake chamber.



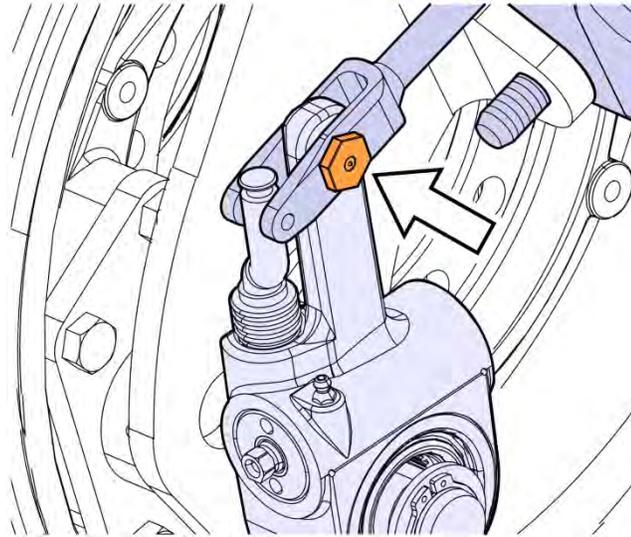
10. Cage the replacement park brake chamber.



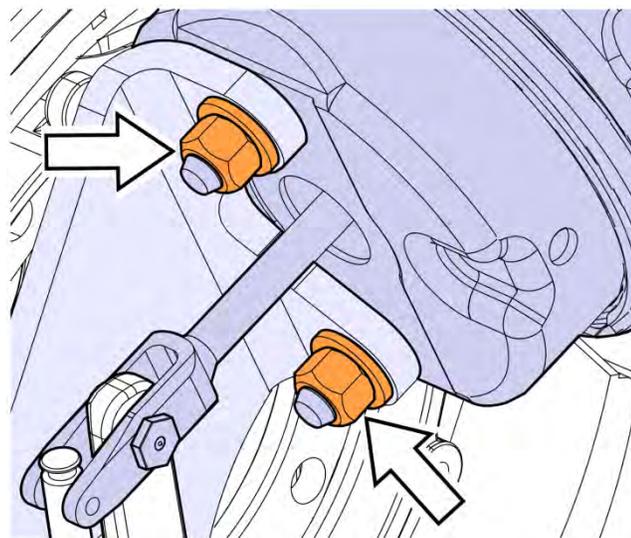
11. Position the replacement park brake chamber as shown in the figure below.



12. Install the clevis pin into the park brake chamber rod.
13. Secure the clevis pin with a new cotter pin.

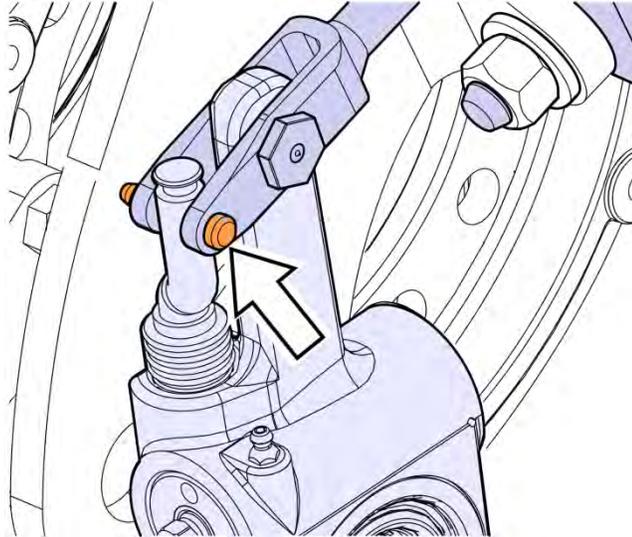


14. Install the two nuts and washers on the parking brake chamber studs.
15. Tighten the two nuts to  $195 \pm 15$  Nm ( $144 \pm 11$  ft-lb).

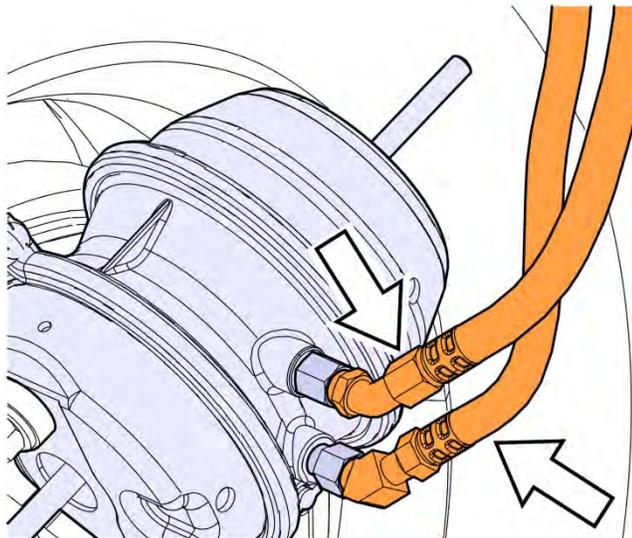


16. If applicable, install the clevis pin and cotter pin into the slack adjuster.

17. Secure the clevis pin with a new cotter pin.



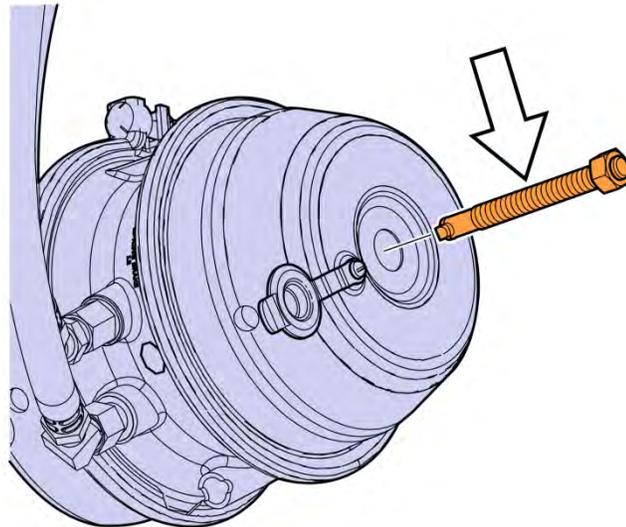
18. Connect the park brake and service supply air lines to the park brake chamber.



19. Un-cage the replacement park brake chamber.

**NOTE**

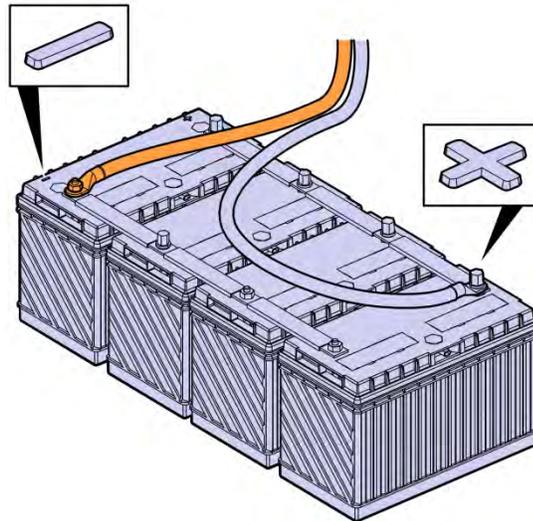
Ensure the brake chamber portal is covered with the supplied dust cover after the park brake chamber is un-caged.



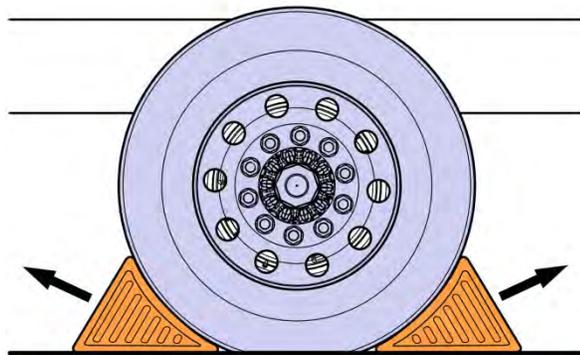
20. Repeat steps 1 – 19 for the remaining wheel-end positions.

### Commissioning the Truck for Operation:

1. Connect the battery cable to the negative (ground) terminal.



2. Start the engine, build the proper air system pressure, check for air leaks, and proper service/park brake operation.
3. Remove the wheel chocks.



**Reimbursement:**

<b>This repair is covered by an authorized Safety Recall campaign. Reimbursement is obtained through the normal claim handling process.</b>		
	<b>UCHP Reimbursement</b>	<b>eWarranty Reimbursement</b>
<b>Claim Type</b> (used only when uploading from the Dealer Business System)	R	R
<b>Recall Status</b>		
Vehicle repaired per instructions		1-Modified per instructions
<b>Labor Code</b>		
Primary Labor Code (Brake Chamber, Replacement, per axle, two brake chambers)	5126-03-09-05 1.3 hrs	51202-0-01 1.3 hrs
Time to take charge of vehicle and determine campaign status	1700-16-01-01 0.3 hrs	17003-0-01 0.3 hrs
<b>Causal Part</b>	85145824	85145824
<b>Authorization Number</b>	C6555	RVXX1501

Take-charge time is not included in the labor code for this operation. Take charge may be eligible, but can only be used once per vehicle repair visit. If the vehicle is having other warranty repairs performed, take-charge should be charged to the warranty repair, otherwise take-charge can be charged to this Safety Recall campaign.