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Coding Information

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Title: Standard to Heavy Duty Brake Chamber Replacement

Applies To: All Models with Air Brakes Built After August 2011

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

2/6/2014 - Initial Article Release

DESCRIPTION

This document will guide the user through replacing component part with an HD (heavy duty) chamber or continuing use of standard chamber.

SYMPTOM(s)

Failed fractured or cracked brake chamber.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
NA	
NA	

Customer Observations or Concerns:

Observations might include; fractured or cracked chambers at mounting point.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
General Shop Tools			

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
HD Haldex Chamber	ZZS127240048	1	
Standard Chamber	2602436C91	1	

DIAGNOSTIC STEP(s)

Step	Action	Decision
#1	DIAGNOSTIC: Is there witness of fracturing or cracking at the face of the chamber? <i>(Please refer to Figure 1)</i>	Yes. Replace with Haldex HD brake chamber
		No. Replace with standard Haldex brake chamber

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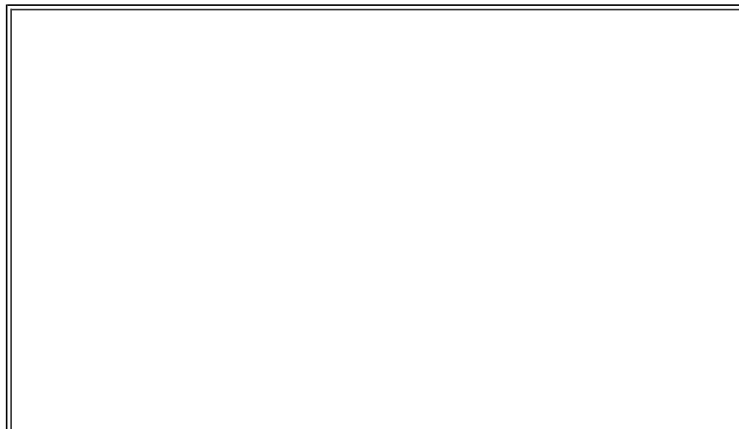
Figure #1: Fractured Chamber

REPAIR STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.

REMOVAL PROCEDURE:

1. Bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Unlatch and open hood.



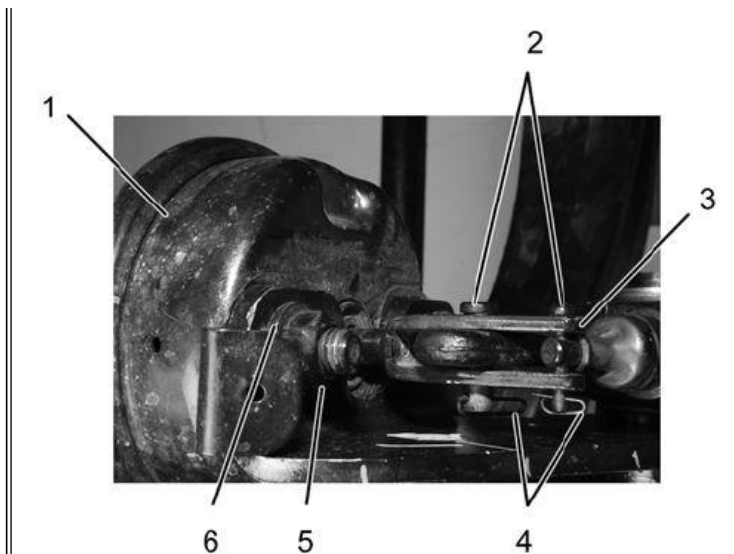


Figure #2: Chamber

1. Brake chamber
2. Clevis pin (2)
3. Winged bracket
4. Clip (2)
5. Nut (2) (1 not shown)
6. Washer (2) (1 not shown)

5. Disconnect line to brake chamber.

6. Remove two clips (Figure 2, Item 4) and clevis pins (Figure 2, Item 2) from yoke of brake chamber (Figure 2, Item 1) shaft.

7. Remove two nuts (Figure 2, Item 5), washers (Figure 2, Item 6), and brake chamber (Figure 2, Item 1) from winged bracket (Figure 2, Item 3).

8. Record location and angle of adapter fitting on brake chamber. Remove air brake chamber hose adapter fitting from brake chamber. Discard brake chamber

INSTALLATION PROCEDURE:

1. Install air brake chamber hose adapter fitting to replacement brake chamber. Adapter fitting must be in same orientation as discarded chamber to prevent hose from rubbing on any components.

2. Install new brake chamber (Figure 2, Item 1) onto winged bracket (Figure 2, Item 3) with two washers (Figure 2, Item 6) and nuts (Figure 2, Item 5).

3. Using torque wrench, tighten two nuts (Figure 2, Item 5) to 130 - 150 lb-ft (176 - 203 N•m).

4. Install two clevis pins (Figure 2, Item 2) and new clips (Figure 2, Item 4) into yoke of brake chamber (Figure 2, Item 1) shaft.

NOTE: Brake chamber lines should be routed and supported to provide proper clearances.

5. Connect air brake chamber hose to brake chamber. Verify hose is not rubbing or coming into contact with any components.

6. Reset initial brake adjustment by performing the following:

- a. Check brake slack adjuster position (BSAP).
- b. Adjust slack adjuster to clevis. Do not pull clevis to slack adjuster.
- c. Adjust slack adjuster until resistance is felt and brake shoes contact the drum, and then back off 1/2 turn.
- d. Measure free stroke. It should be 1/2 in - 5/8 in max and close to equal side to side per axle.

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	04092 - Tractor Air Brakes
Noun:	231- Chamber

Standard Repair Time(s):

Description	Chassis	Engine	SRT
Air Brake Chamber Replace	All	All	A04-270

OTHER RESOURCES

[Master Service Information Site](#)

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