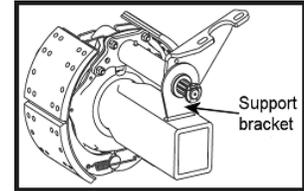




A **PACCAR** COMPANY



**BULLETIN NUMBER**  
13-28

12 August 2009

**SUBJECT**  
Brake Assembly Cracking

**CONDITION** Certain vehicles equipped with Bendix drum brakes and wide base low profile 50 or 55 series tires may experience cracks in rear brake assembly components, including the brake cam tube mounting flanges, the brake air chamber bracket, the brake air chamber, and the brake spider.

**CHASSIS AFFECTED**  
4,058 T2000s, T300s, T600s, T660s, T800s and W900s built between 12/31/01 – 09/29/08, equipped with wide base low profile 50 or 55 series tires. See the attached [chassis list](#), [dealer/chassis list](#) and [customer letter](#).

**ACTION**  
If a customer comes into your dealership and demonstrates the condition above, replace the cracked or fractured brake component(s) and install brake cam tube supports as described in the procedure below. Review DWC or SIR online systems to verify that campaign 13-28 is still open or has already been completed prior to performing this repair.

**Note:** Open campaign code 13-28 in SIR establishes eligibility for warranty. **Code 13-28 is not instruction for dealers to initiate inspections.**

**WARRANTY**  
Regardless of chassis in service date or mileage, for repairs on or prior to August 30, 2014 (5 years) Kenworth will pay for parts at dealer net plus applicable mark-up and standard labor to perform the procedure below. Create a Standard Truck Claim for replacing cracked or fractured brake assembly components and installing brake cam tube supports as listed in PARTS. Use standard labor (SRTs) for replacing cracked or fractured components. In addition, claim labor for installation of components as listed below. Labor is per rear drive axle.

SRT	LABOR	DESCRIPTION
013-902	1.30 hours	R&R cracked cam tube and install cam tube support (each end)
013-903	0.50 hours	Install cam tube support on cam tube with no cracked or fractured cam tube (each end)

**Coding**  
Claim Type U, 013-002-067  
155-05-01674AY



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**PARTS**

Parts are available from PACCAR Parts. Identify part numbers for cracked or fractured brake assembly components from ECAT. In addition, following are part numbers for additional supports being installed. Note that parts used are dependent upon suspension and/or axle.

<b>Cam Shaft Tube Bracket C85-1006-XXX By Suspension</b>	<b>Forward Left</b>	<b>Forward Right</b>	<b>Rear Left</b>	<b>Rear Right</b>
<b>AG380 w/Standard Stroke Chambers</b>	-001	-001	-001	-001
<b>AG380 w/Long Stroke Chambers</b>	-001	-002	-002	-001
<b>HMX</b>	-005	-005	-010	-010
<b>PRIMAAX w/DSH40/44 or DSP41 Series</b>	-005	-005	-005	-005
<b>PRIMAAX w/D40-170 or D46-170 or D46-590 Series</b>	-008	-006	-006	-008
<b>PRIMAAX w/D52-190 Series</b>	-006	-009	-009	-006
<b>PRIMAAX w/RT40-145 or RT46-160/164 Series</b>	-008	-007	-007	-008
<b>PRIMAAX w/DT463 Series</b>	-008	-008	-008	-008
<b>Reyco 102</b>	-001	-001	-001	-001

<b>Cam Shaft Tube Bracket C85-1015-XXX By Suspension</b>	<b>Forward Left</b>	<b>Forward Right</b>	<b>Center (Tridem) or Rear Left</b>	<b>Center (Tridem) or Rear Right</b>	<b>Tridem- Rear Left</b>	<b>Tridem- Rear Right</b>
<b>AG100 or AG200</b>	-001	-001	-001	-001	-001	-001
<b>Chalmers 800 (Not w/Inverted Brake Chambers)</b>	-002	-002	-003	-003	NA	NA
<b>Neway AD123 or AD246</b>	-004	-004	-005	-005	NA	NA

<b>Cam Shaft Tube Bracket C85-XXXX-XXX By Suspension</b>	<b>Forward Left</b>	<b>Forward Right</b>	<b>Rear Left</b>	<b>Rear Right</b>
<b>Chalmers 800 (w/Inverted Brake Chambers)</b>	C85-1015-002	C85-1015-002	C85-1020-001	C85-1020-001
<b>HAS 210L, 400, 402 or Reyco 79 KB</b>	C85-1018-001	C85-1018-001	C85-1018-001	C85-1018-001

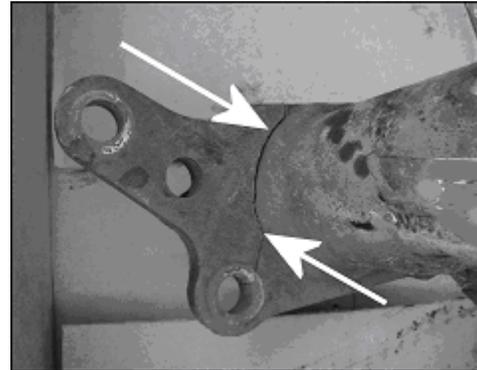
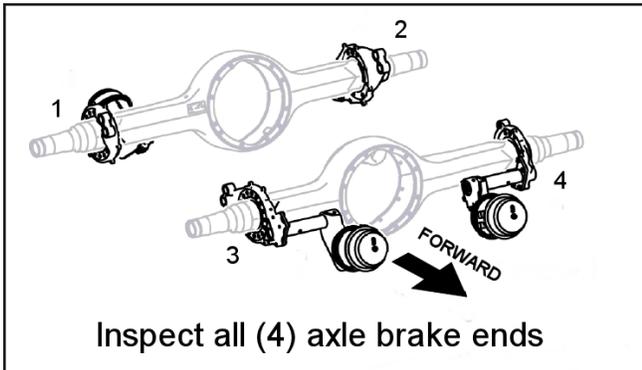
**PROCEDURE**

When a customer calls to schedule an appointment, identify the components that the customer reports are cracked or fractured. Order these parts (part numbers from ECAT) and the appropriate supports (PARTS above) so that they are available on the service appointment date.

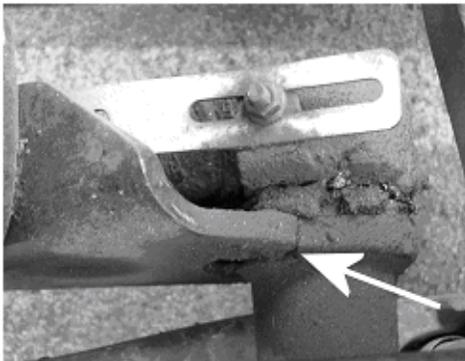
When the chassis is available, verify that the crack or fracture is at a brake cam tube, brake air chamber bracket, brake spider or air brake chamber. This repair does not apply to normal brake wear or abuse. See the following depiction of representative cracked components.



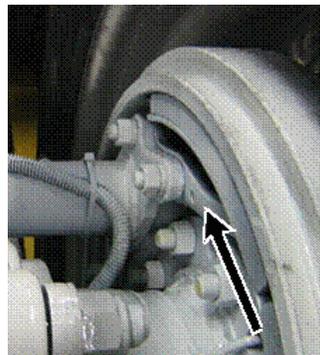
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Cracks at the cam tube weld/flange



Cracks in brake air chamber bracket



Cracks in the brake spider



Cracks in the air brake chamber

Replace cracked or fractured components. Standard procedures apply to replacing cracked or fractured brake assembly components and parts damaged as a result of brake assembly component fracture.

Install supports on all rear axle ends that have brakes, whether there was a crack or fracture on that axle end or not. Use the following steps.

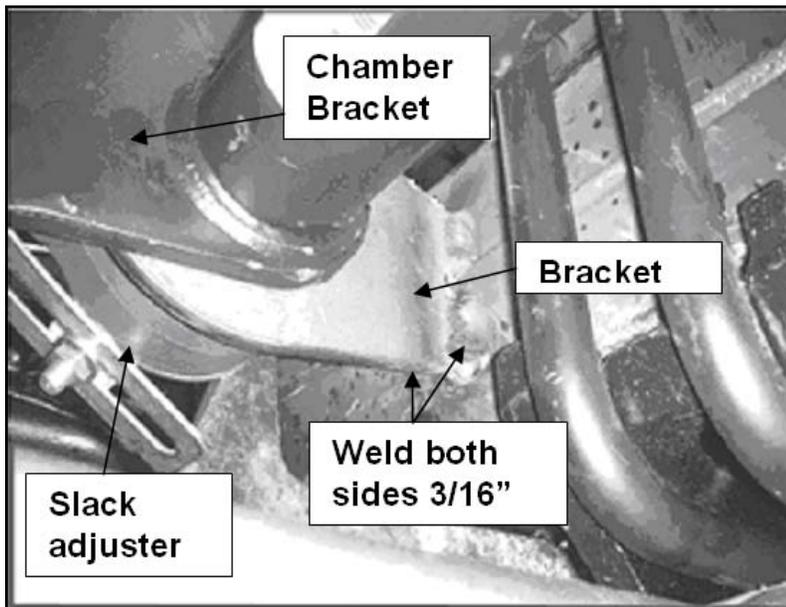
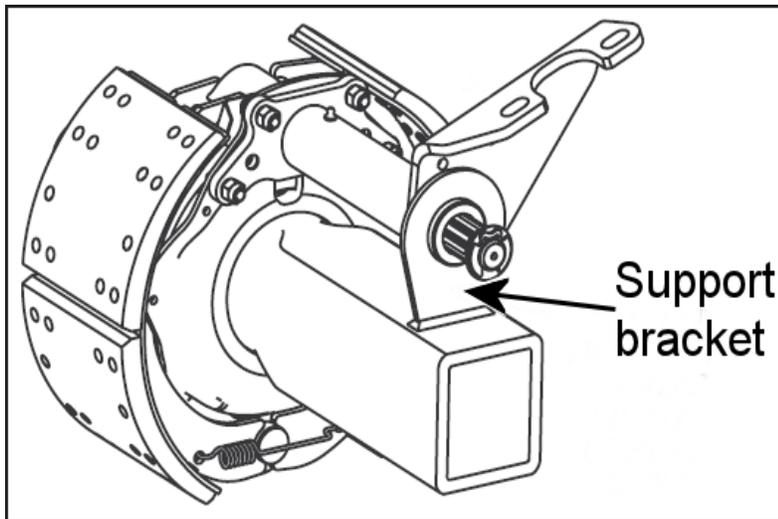
1. Properly chock wheels to prevent vehicle from rolling.
2. Remove wheel and tire.
3. Properly cage brake chamber per chamber manufacturer's instructions.
4. Disconnect the brake chamber from the slack adjuster
5. Remove the slack adjuster from the cam tube
6. Select the appropriate bracket, from the chart in PARTS section.
7. Slide the camshaft tube brace onto the camshaft tube. (See installation drawing C93-1178)
  - a. Push the brace as close to the brake air chamber mounting bracket as possible.
  - b. The brace hole will fit tight over the camshaft tube.
  - c. The small semi-circle notch in the bracket is designed to fit over the axle weld seam.
8. Weld the bracket to the axle housing.
  - a. Use approximately 3/16" weld size.
  - b. Weld the full length on both sides of the bracket.
  - c. Do not weld the bracket to the brake cam tube.



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9. Prime and paint bracket and weld.
10. Reinstall slack adjuster then un-cage spring brake.
11. Reinstall wheel and tire.
12. Verify brakes are properly adjusted.

Following are illustrations of completed work.





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Customer Name

Date

Customer Address

Subject: TIB 13-28, Brake Assembly Cracking

Dear Kenworth Customer,

Kenworth Truck Company has determined that certain vehicles equipped with Bendix drum brakes and wide base low profile 50 or 55 series tires (super single tires) may experience cracks in rear brake assembly components, such as the brake cam tube mounting flanges, the brake air chamber bracket, the brake air chamber, and the brake spider. Our records indicate that your vehicle was built with Bendix rear drum brakes and super single tires. **Kenworth recommends that you incorporate a weekly visual inspection of the brake assembly components as a regular practice for the life of the vehicle.** The attached illustrations will assist you in determining where to look and the conditions for which you should look. Kenworth recommends that prior to completing the weekly visually inspection, that dirt and debris be removed from the brake assembly components. Please note that this recommended inspection is in addition to the required pre-trip inspections and the recommended maintenance and service work which should be performed on your vehicle.

Cracks that are of a visually identifiable size upon careful inspection of the brake assembly components will not cause a loss of or reduction in braking performance. However, if a cracked brake assembly component is not addressed and a crack is allowed to progress to the point of fracture (i.e. separation), a loss of or reduction in braking performance could occur.

Kenworth has designed a brake cam tube support to reduce the likelihood of brake assembly component cracking. If your inspection reveals a cracked brake assembly component, it is important to promptly schedule an appointment with a Kenworth dealer service shop and that dealer will replace the cracked component and install cam tube supports at no charge to you. **This offer is valid for repairs completed on or before August 30, 2014 (5 years).**

**Again, Kenworth recommends that you incorporate a weekly visual inspection of the brake assembly as regular practice and if a crack is identified, make an appointment for repair with any Kenworth dealer.** To find your nearest Kenworth dealer, visit Dealer Locator at the internet website [www.Kenworth.com](http://www.Kenworth.com). When contacting your selected Kenworth dealer, refer to TIB 13-28 and the chassis listed on this letter. A scheduled appointment should take less than three hours and there will be no charge to you for work performed prior to August 30, 2014.

We apologize for this inconvenience but ask for your cooperation to ensure continued satisfaction with your Kenworth product.

Thank you,

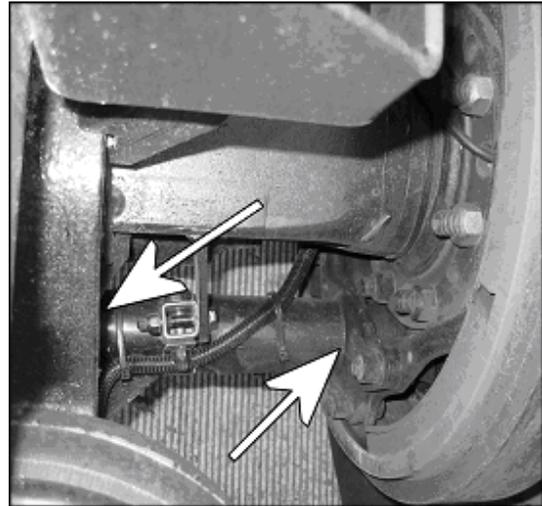
Mike Kalkoske  
Director, Quality Services  
Kenworth Truck Company

## TIB 13-28; Brake Assembly Cracking

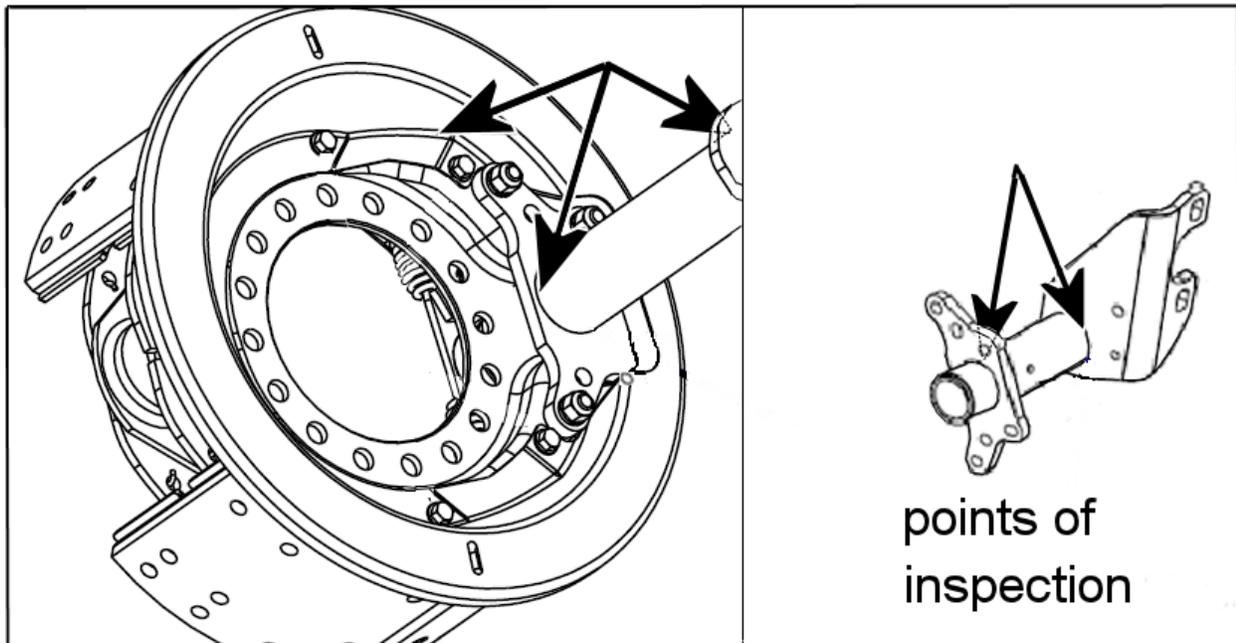
**Where to look:** between the brake drum and axle housing



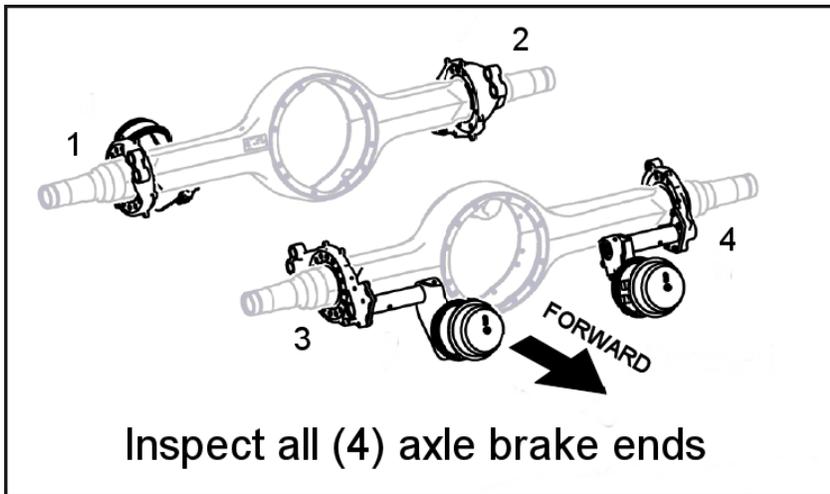
Visual inspection between brake drum and axle housing



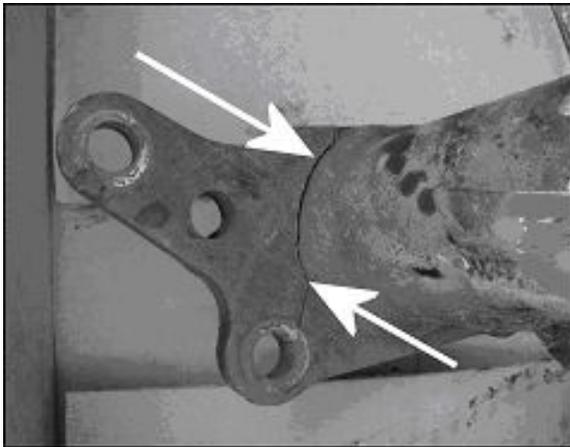
Top down view of brake cam tube



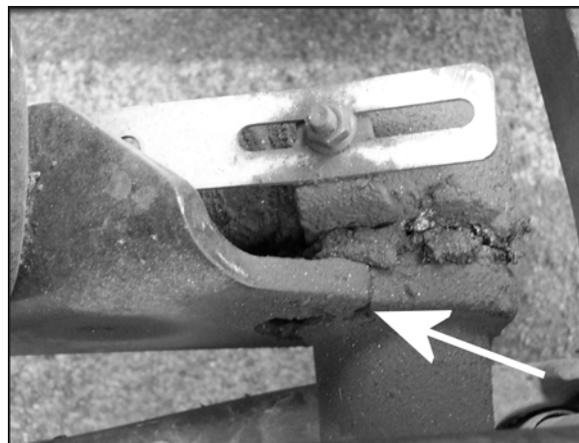
Detailed view of inspection area



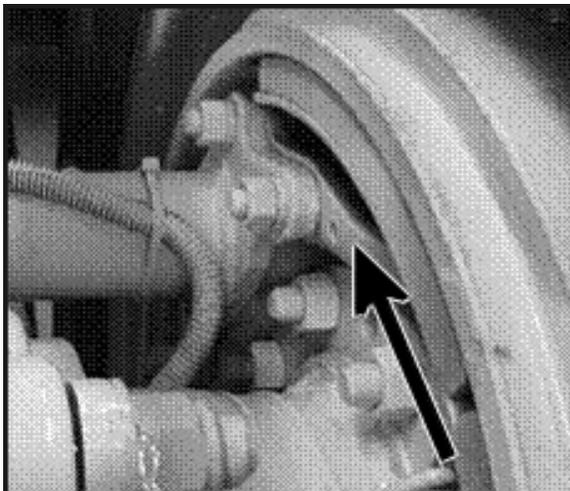
**What to look for:** cracks at cam tube or attached parts



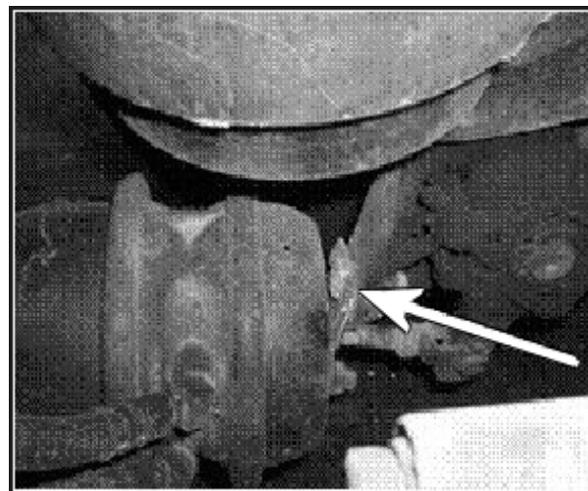
Cracks at the cam tube weld/flange



Cracks in brake air chamber bracket



Cracks in the brake spider



Cracks at the brake air chamber