



SAFETY RECALL BULLETIN

NHTSA RECALL 13V-138

AUTOCAR, LLC SAFETY RECALL A-1301

May, 2013

Attention:

Service Managers / Parts Managers

Subject:

MGM Brake Chamber Inspection and Replacement (Meritor recall).

Safety Recall Information:

This Safety Recall Bulletin provides the procedure for inspecting and replacing MGM Type 24 J-Series parking brake chambers which are subject to Meritor Inc. Recall No. 13E-012.

Vehicles Affected:

There are 532 affected vehicles with serial numbers in the range 212620 through 215475. Refer to the VIN list beginning on Page 13.

Service Responsibility:

Service sites must perform this recall on affected vehicles at no charge to the owner regardless of vehicle mileage, age or ownership. If a vehicle affected by this recall is taken into or is currently in your vehicle inventory, or at your center for service, you must perform this recall before the vehicle is sold or released to the owner.

To Obtain Parts:

Contact Meritor's Commercial Vehicle Aftermarket at 888-725-9355.

Required Parts:

Reference Meritor Technical Bulletin addendum starting on page 4.

Claims for Reimbursement:

Reference Meritor Technical Bulletin addendum starting on page 4.

Claim Coding Information:

Reference Meritor Technical Bulletin addendum starting on page 4.

Tools Required:

Reference Meritor Technical Bulletin addendum starting on page 4.



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Safety Notices



WARNING

To prevent eye injury, always wear eye protection when performing vehicle maintenance, service or inspection.



WARNING

Before working on a vehicle, set the parking brake, place the transmission in neutral and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.



WARNING

Autocar natural gas powered vehicles require specific compliance in the service, storage and refueling procedures.

If you store or dispense Compressed Natural Gas (CNG) or Liquid Natural Gas (LNG), or if you work on CNG or LNG trucks, your location must be fully compliant with applicable codes, regulations and standards, including National Fire Protection Association (NFPA) codes, Society of Automotive Engineers (SAE) standards, American National Standards Institute (ANSI), Natural Gas Vehicle (NGV) standards, the United States Code of Federal Regulations (CFR), and your state and local fire and other applicable codes (including the California Code of Regulations and the Texas Administrative Code, as applicable).

Contact your local fire department for guidance and additional compliance information. Technicians working on Autocar trucks with CNG or LNG engines must be trained in the proper repair of CNG and LNG engines and the safe storage and dispensing of CNG and LNG.

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CAUTION

LOCKOUT/TAGOUT PROCEDURES

Before entering the vehicle or vehicle body, read and follow OSHA regulations concerning entry and working in "CONFINED SPACE" OSHA 1910.146 and "LOCKOUT/TAGOUT" OSHA 1910.147. Follow OSHA regulations while performing any work on the vehicle. The vehicle must be disabled by the following steps before performing any work on the vehicle:

1. Place the transmission in NEUTRAL.
2. Set the parking brake.
3. Shut the engine OFF.
4. Lock cab doors, keep the key in your pocket. Block the wheels before entering the body or performing any work on the vehicle.
5. Turn the battery disconnect switch OFF, if equipped.
6. Completely drain the air from the primary/A system and secondary/B system by opening the drain valves on the air tanks themselves or by using the drain manifold if supplied. When draining the air tanks, do not look into the area where air is draining. Dirt or sludge particles may be expelled in the air stream and can cause eye injury.
7. Place magnetic "DANGER" signs on both cab doors before entering the body or performing any work on the vehicle.
8. Take proper precautions before working under the vehicle. Use ramps approved for the weight of your vehicle, or use floor jacks and stands. Never work under a vehicle supported by jacks alone. Always use jack stands to support the vehicle.

Inspection and Replacement Procedure:

MERITOR Technical Bulletin TP-1338
(Revised 03-13) (see Pages 4 through 12).

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Technical Bulletin

TP-1338
Revised 03-13

MGM Brake Chamber Inspection and Replacement

Vehicles Equipped with MGM Type 24 J-Series Piston Parking Brake Actuators, and Meritor DiscPlus™ EX225 Air Disc Brakes or Q Plus™ Cam Brakes/Rear Axles Only

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

⚠ WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

Before you service a spring chamber, carefully follow the manufacturer's instructions to compress and lock the spring to completely release the brake. Verify that no air pressure remains in the service chamber before you proceed. Sudden release of compressed air can cause serious personal injury and damage to components.

Remove dry brake dust with a vacuum brush or wipe the areas with a damp cloth. Never use an air line to blow dust from the brake and rotor area. Never try to accelerate drying time by using an air line. Serious personal injury and damage to components can result.

⚠ ASBESTOS AND NON-ASBESTOS FIBERS WARNING

Some brake linings contain asbestos fibers, a cancer and lung disease hazard. Some brake linings contain non-asbestos fibers, whose long term effects to health are unknown. You must use caution when you handle both asbestos and non-asbestos materials.

How to Obtain Additional Maintenance, Service and Product Information

Refer to Maintenance Manual MM-0467, DiscPlus™ EX225 Air Disc Brake; and Maintenance Manual 4, Cam Brakes and Automatic Slack Adjusters. To obtain these publications, visit Literature on Demand at meritor.com.

Contact the OnTrac Customer Service Center at 866-668-7221 (United States and Canada); 001-800-889-1834 (Mexico); or email OnTrac@meritor.com.

How to Obtain Additional Parts

Contact Meritor's Commercial Vehicle Aftermarket at 888-725-9355.

MGM Brake Chamber Inspection and Replacement

This technical bulletin provides procedures for inspecting and replacing MGM Type 24 J-Series parking brake chambers that have date codes between November 23, 2010, and March 31, 2012.

Call the OnTrac Customer Service Center Before Starting the Inspection Procedures

Contact the OnTrac Customer Service Center for authorization to proceed with the inspection and chamber replacement. If you cannot locate a qualified repair station, OnTrac will work with you and the local Meritor district manager to find a repair facility for you. In some circumstances, Meritor may authorize an end user or other repair facility to conduct the inspection and chamber replacement.

Call the OnTrac Customer Service Center at 866-668-7221 (US and Canada) between 8:00 AM and 8:00 PM ET Monday through Friday, and between 9:00 AM and 6:00 PM ET on Saturday. After selecting "preferred language," select option 1 for axles and braking systems and refer to Program number C13AA.

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The OnTrac Customer Service Center requires the following information to assign the repair facility or end user a case number and permission to proceed with the work.

- Reference to Meritor's Program number C13AA
- Complete 17-digit vehicle identification number (VIN)
- Vehicle owner's name, address and telephone number
- Axle model and serial number. Figure 1.
- Vehicle in-service date
- Repair facility's name, address and telephone number
- Repair facility's hourly rate

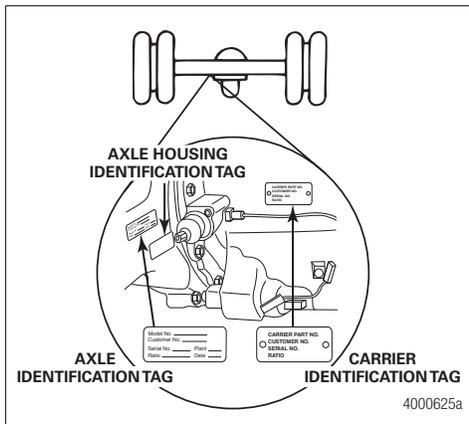


Figure 1

Labor Time Allowances

Table A: Labor Time Allowances

Description	SRT
Inspection time	0.6 hour per axle wheel end
Repair time if required	1.75 hours per axle wheel end

Replacement Parts

Table B: Replacement Parts

Part Number	Description	Quantity per Axle
E2 3276X24	Disc Brake Chamber	As Required
E3 3276X24	Disc Brake Chamber	As Required
E4 3276X24	Disc Brake Chamber	As Required
E5 3276X24	Disc Brake Chamber	As Required
E7 3276X24	Disc Brake Chamber	As Required
E8 3276X24	Disc Brake Chamber	As Required
A71-3276P16	Drum Brake Chamber	As Required
A72-3276P16	Drum Brake Chamber	As Required
A73-3276P16	Drum Brake Chamber	As Required
B98-3276D30	Drum Brake Chamber	As Required

Replacement parts can be ordered from your local parts supplier.

You must disable a chamber that requires replacement by using a cutting tool, such as a die grinder with a cutting wheel, to remove both brake chamber mounting studs at the face of the brake chamber. Figure 2.

OnTrac will require confirmation that the chamber has been disabled before a warranty claim is approved.

Once the brake chamber mounting studs are removed, dispose of the chamber according to the chamber manufacturer's guidelines.

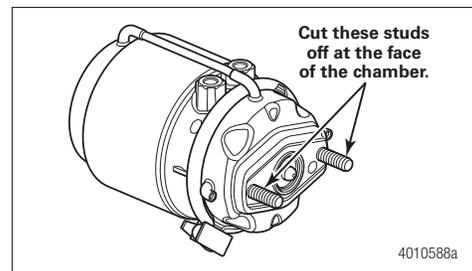


Figure 2

Required Tools

- Appropriate Capacity Safety Stands
- Appropriate Capacity Jack
- Appropriate Caliper Lifting Device
- Air Tools
- Hand Tools

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- 1-1/2-inch Lug Nut Socket
- Torque Wrench up to 150 lb-ft (200 N•m)
- Torque Wrench up to 450 lb-ft (600 N•m)

Identify the Brake Chambers for Replacement

Use the following procedure to check the date code on the brake chamber identification tag to determine if the brake chamber requires replacement. Brake chambers which have date codes falling on or between November 23, 2010 and March 31, 2012 must be replaced. If the date code found on the chamber identification tag is outside that date range, the inspection is complete.

If you are inspecting a brake chamber that is not mounted to a vehicle, follow the procedure to identify the brake chamber and only replace stock if the date code on the chamber being inspected falls within the suspect range.

1. Wear safe eye protection. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.
2. Locate the identification tag on the brake chamber. Figure 3.

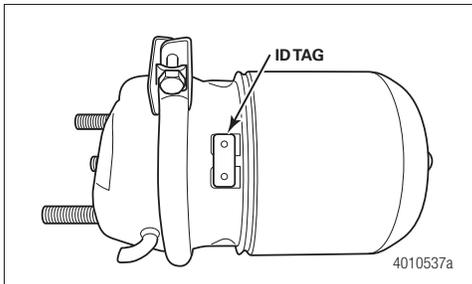


Figure 3

3. Check the identification tag for a date code falling on or between the date range of November 23, 2010 and March 31, 2012. As an example, the date code shown in Figure 3 (C051911 centered in ID tag) means "built on May 19, 2011". In this example, the chamber requires replacement. Figure 4.

- **If the date code on the brake chamber identification tag is on or between the date range of November 23, 2010 and March 31, 2012:** Replace the brake chamber using the disc or drum brake procedures in this technical bulletin.
- **If the date code on the brake chamber identification tag is not within the date range:** The chamber does not require replacement. Continue checking the rest of the brake chamber identification tags on the vehicle.

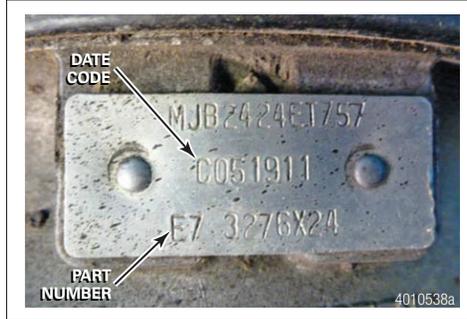


Figure 4

Disc Brake Chamber Replacement and Inspection Procedures

Remove the Brake Chamber from the Caliper Assembly

1. Raise the axle of the wheel end you are servicing. Support it with safety stands.
2. Remove the tire and wheel assembly according to the manufacturer's instructions.
3. Follow the brake chamber manufacturer's instructions to completely release the brake. This may require manually caging the park brake spring assembly using the manual caging screw.
4. In order to prevent debris from entering the caliper assembly, use a vacuum brush or damp cloth to remove any dirt from the brake assembly.
5. Disconnect the air lines connected to the brake chamber ports according to the vehicle manufacturer's instructions.
6. Use the correct wrench to remove the air chamber nuts and washers. Figure 5.

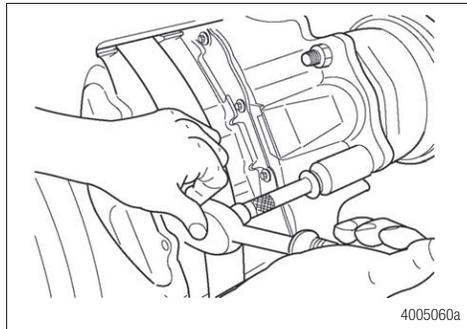


Figure 5

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- Remove the air chamber assembly from the brake caliper.

Inspect the Brake Assembly

Perform the following inspections during the brake chamber replacement process.

- Inspect the brake assembly for signs of overheating according to the instructions in Maintenance Manual MM-0467 and described in the following steps.
 - If any issues are found during the inspection:** Contact the OnTrac Customer Service Center using the instructions at the beginning of this bulletin before the removal and replacement of any brake component.
- Use a vacuum brush or damp cloth to remove any dirt from the brake assembly.
- Inspect the brake assembly for the following signs of overheating. This may require component replacement. Contact the OnTrac Customer Service Center before you replace any parts.

Items that may require replacement

- Burnt or melted caliper piston boots. Figure 6.
- Cracks in the rotor that extend 25% into the thickness of the outer edge of the rotor. Figure 7.
- Heavy Heat Checking — Heavy heat checking is surface cracks that have width and depth. Replace the rotor if the heat checks have a width greater than 0.02-inch (0.5 mm), depth greater than 0.04-inch (1 mm) and extend across the surface more than 75% in the radial direction. Figure 8.
- Brake pads deteriorated from a severe overheating condition. Figure 9 and Figure 10.
- If you find heavy heat checking on the rotor, cracks in the rotor, deteriorated brake pads, or burnt or melted caliper piston boots:** Component replacement may be required. Contact the OnTrac Customer Service Center using the instructions at the beginning of this bulletin before the removal and replacement of any suspect overheated brake component. OnTrac will advise you as to additional functional checks and parts replacement that may be required.

Items that do not require replacement

Blue Marks or Bands — Blue marks or bands indicate that the rotor was very hot. This does not require rotor replacement. If blue marks or bands are consistently found during scheduled maintenance inspections, it is recommended the brake system be inspected for correct operation and balance. Figure 13.

- If the brake rotor shows light heat checking or blue marks or bands:** The brake rotor will not require replacement.

- Light Heat Checking** — Cracks on the surface of the rotor that result from light heat checking are small and fine and do not require rotor replacement. Figure 11 and Figure 12.

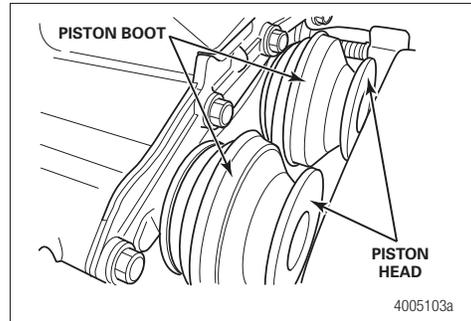


Figure 6

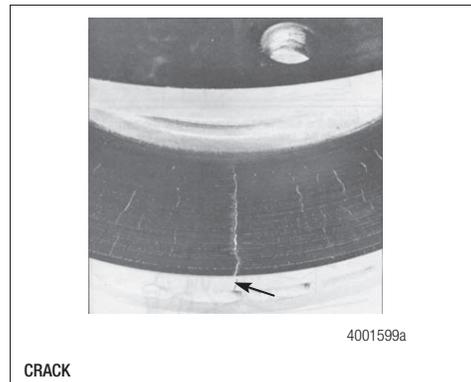


Figure 7

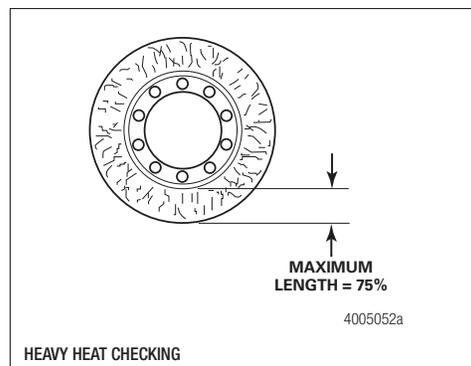


Figure 8

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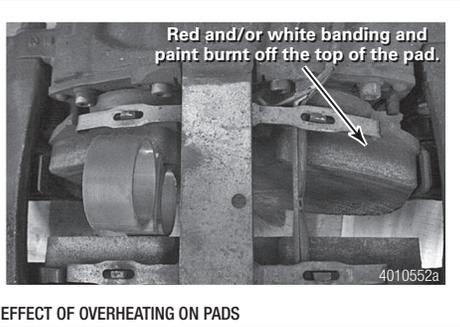


Figure 9

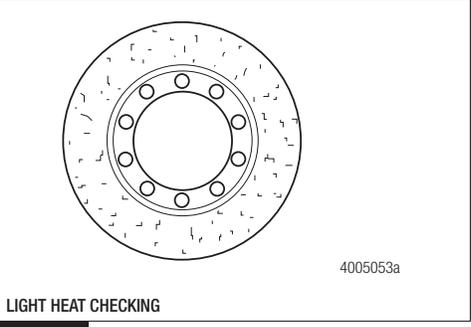


Figure 12

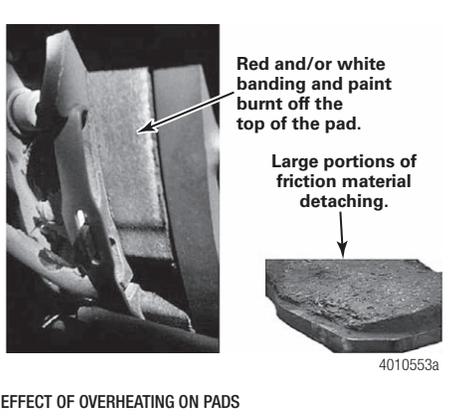


Figure 10

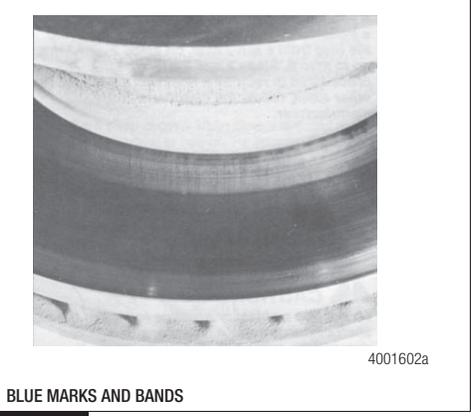


Figure 13

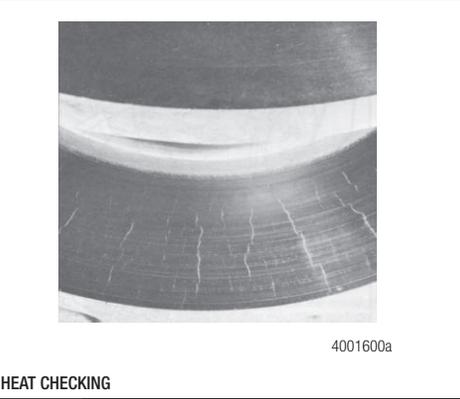


Figure 11

Install the New Brake Chamber onto the Caliper Assembly

1. Check the date code on the replacement chamber identification tag as previously described in this technical bulletin. Verify the replacement chamber does not have a date code that falls within the suspect range before installing.

NOTE: Typically, new brake chambers are shipped caged.

2. If the replacement brake chamber is not caged, carefully cage and lock the chamber spring. Always work from the side or front of a spring brake. Do not work from behind the brake. Follow the brake chamber manufacturer's instructions to release the brake.
3. Verify the brake chamber seal is seated correctly, is free of debris, and is not damaged. Verify the brake caliper seal surface and the mounting surface are free of oil, grease and debris, and are not damaged.

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- **If you find debris on the brake chamber or caliper seal:**
Use a vacuum brush or damp cloth to remove any dirt from the brake assembly.

- Position the brake chamber onto the caliper. Determine which of the two possible brake chamber orientations places the air ports in the original location.

For brake chambers equipped with elbows, the brake chamber must be oriented in such a way that any two elbows will easily allow water and contaminants to drain from the brake chamber. Figure 14.

Figure 14

- As you position the brake chamber onto the caliper, visually check to ensure the chamber push rod is nesting in the pocket of the operating shaft.
- Firmly hold the brake chamber onto the brake caliper by hand. Place the two washers and nuts onto the mounting studs. Be sure to work from the side or front of the caliper, not in back of it.
- Use a 24 mm wrench to tighten the nuts in an alternating sequence.
 - Tighten the nuts until the mating surfaces of the brake chamber and brake caliper meet. Use minimal torque on the two nuts to seat the mating surfaces.
 - Use a torque wrench to tighten each nut, first to 59-75 lb-ft (80-100 N•m) and then finally to 133-155 lb-ft (180-210 N•m).

⚠ WARNING
If the brake chamber is supplied with removable breather plugs and the bottom-most breather plugs are not removed, the caliper may become contaminated which can cause damage to the internal parts of the caliper. The brakes can seize resulting in serious personal injury and damage to components.

- If removable breather plugs are supplied with the brake chamber, locate the bottom-most breather plug and remove it from the chamber. Figure 15.

Figure 15

- Install the air hoses to the brake chamber ports. Refer to the manufacturer's instructions.
- Set the initial brake pad-to-rotor running clearance using the following procedure.

⚠ CAUTION
Always set the initial brake pad-to-rotor running clearance with the air chamber installed. Damage to components can result.

- Remove the adjuster cover. Figure 16.

Figure 16

- Use a 10 mm wrench to rotate the manual adjuster stem **CLOCKWISE** so that the brake pad-to-rotor clearance is ZERO. Figure 17.

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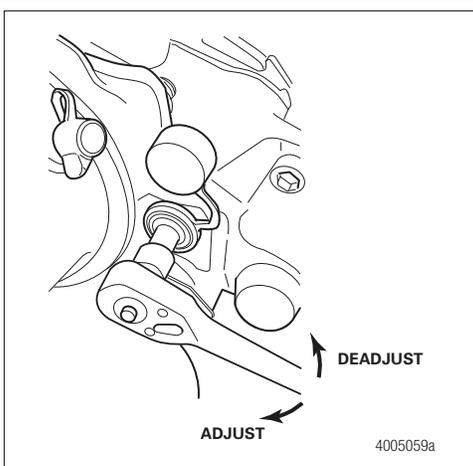


Figure 17

- C. Deadadjust the manual adjuster stem one half turn COUNTERCLOCKWISE to set the initial running clearance. Reinstall the adjuster cover. Figure 17.
11. Carefully uncage and unlock the spring. Follow the brake chamber manufacturer's instructions.
 12. Install the tire and wheel assembly according to the manufacturer's instructions.
 13. Remove the safety stands and lower the vehicle.
 14. Remove the blocks from the wheels.
 15. Perform a post-service brake function test and inspection according to the fleet maintenance guidelines.
 16. Contact the OnTrac Customer Service Center as described at the end of this technical bulletin.
 17. Return the vehicle to service.

Drum Brake Chamber Replacement and Inspection Procedures

Remove the Brake Chamber from the Drum Brake Assembly

1. Raise the axle of the wheel end you are servicing. Support it with safety stands.
2. Remove the tire and wheel assembly following the manufacturer's instructions.

3. Follow the brake chamber manufacturer's instructions to completely release the brake. This may require manually caging the park brake spring assembly using the manual caging screw.
4. Disconnect the air lines that are connected to the brake chamber according to manufacturer's instructions.
5. Remove the clevis pin(s) from the clevis on the automatic slack adjuster and rotate the slack adjuster away from the clevis. Figure 18.

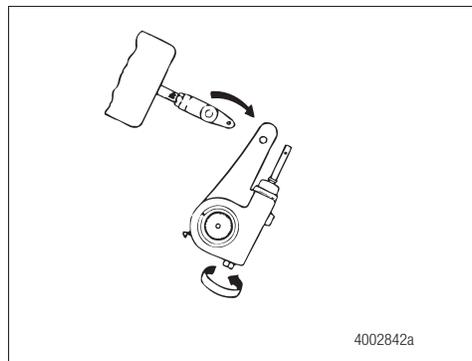


Figure 18

6. Use the correct wrench to remove the air chamber nuts and washers. Figure 19.

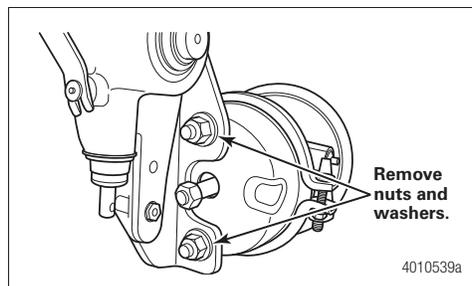


Figure 19

7. Remove the air chamber assembly from the brake chamber bracket assembly.

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Inspect the Brake Assembly

Refer to Maintenance Manual 4 for complete inspection, replacement and adjustment of components.

1. Inspect the brake according to the instructions in Maintenance Manual 4.
2. Inspect the brake assembly for the following conditions.
 - Cracks in the brake drum. Figure 20.
 - Heavy heat crazing that covers over 75% of the brake shoe width. Figure 21.
 - Brake linings deteriorated from a severe overheating condition.
 - **If the brake assembly shows any signs of overheating as described above:** Contact the OnTrac Customer Service Center following the instructions in the beginning of this bulletin before the removal and replacement of any suspect overheated brake component.

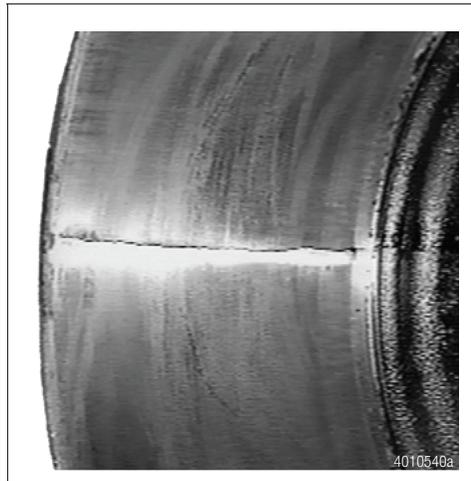


Figure 20

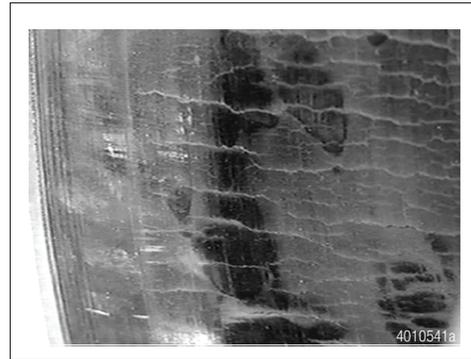


Figure 21

Install the New Brake Chamber onto the Chamber Bracket Assembly

1. Check the date code on the replacement chamber identification tag as previously described in this technical bulletin. Verify the replacement chamber does not have a date code that falls within the suspect range before installing.
2. If the replacement brake chamber is not caged, carefully cage and lock the spring of the chamber. Follow the brake chamber manufacturer's instructions completely to release the brake. Typically, new brake chambers are shipped caged.
3. Verify that the brake chamber bracket assembly mounting surface is free of oil, grease and debris, and is not damaged.
4. Follow the instructions in Maintenance Manual 4 for the correct set-up and adjustment of the brake chamber push rod.
5. Attach the slack adjuster clevis to the brake chamber push rod according to instructions in Maintenance Manual 4 when using a Meritor slack adjuster.
 - **If a Meritor slack adjuster is not used:** Refer to the vehicle manufacturer's instructions for correct set-up procedures.
6. Position the brake chamber onto the chamber bracket assembly. Determine which of the two possible brake chamber orientations places the ports in the most accessible position.
7. Hold the brake chamber onto the brake chamber bracket assembly by hand. Place the two washers and nuts onto the mounting studs. Be sure to work from the side or front of the brake chamber, not behind it.
8. Use an appropriate wrench to tighten the nuts in an alternating sequence as follows.



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- A. Tighten the nuts until the mating surfaces of the brake chamber and brake chamber bracket meet. Use minimal torque on the two nuts to seat the mating surfaces.
 - B. Use a torque wrench to tighten each nut to the correct torque value. Refer to Table C for the correct torque value.
9. When using a Meritor slack adjuster, follow the instructions in Maintenance Manual 4 for the correct set-up and adjustment of the Meritor automatic slack adjuster.
- **If a Meritor slack adjuster is not used:** Refer to the OEM for set-up and adjustment instructions.
10. Install the air hoses to the brake chamber ports. Refer to the manufacturer's instructions.
11. Uncage and unlock the parking brake spring. Follow the brake chamber manufacturer's instructions.
12. Install the tire and wheel assembly according to the manufacturer's instructions.
13. Remove the safety stands and lower the vehicle.
14. Remove the blocks from the wheels.
15. Perform a post-service brake function test and inspection as per fleet maintenance guidelines.
16. Contact the OnTrac Customer Service Center as described at the end of this technical bulletin.
17. Return the vehicle to service.

Call the OnTrac Customer Service Center After Completing the Inspection and Replacement Procedures

Contact the OnTrac Customer Service Center at 866-668-7221 (US and Canada) between 8:00 AM and 8:00 PM ET Monday through Friday, and between 9:00 AM and 6:00 PM ET on Saturday. After selecting "preferred language," select option 3 for foundation brake products and refer to Program number C13AA.

The repair facility or end user will be paid directly by Meritor. Once the repairs have been completed, call the OnTrac Customer Service Center with the following information to receive payment. You may contact the OnTrac Customer Service Center if you have any questions on the above reimbursements or repair procedures.

- Vehicle repair date
- Vehicle mileage at the time of the repair
- Repair facility work order number
- Total labor hours required to perform the repairs
- Axle serial number
- Returned shipping information (confirmation that the removed brake chambers have been shipped back to Meritor)

Table C: Torque Specifications

Bolt Size	Torque, lb-ft (N-m)
7/16"-20	60-75 (81-102)
1/2"-20	85-115 (115-156)
9/16"-18	130-165 (176-224)
5/8"-18	180-230 (244-312)
3/4"-16	350-450 (474-610)
3/4"-10	270-350 (366-474)



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5VCACSLE6BH212620	5VCACRLE6BH212657	5VCACRLE1BH212694	5VCACLE1BH212787
5VCACSLE8BH212621	5VCACRLE8BH212658	5VCACRLE3BH212695	5VCACRLEXBH212788
5VCACSLEXBH212622	5VCACRLEXBH212659	5VCACRLE5BH212696	5VCACRLE1BH212789
5VCACSLE1BH212623	5VCACRLE6BH212660	5VCACRLE7BH212697	5VCACRLE8BH212790
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5VCACSLE2BH212632	5VCACRLE2BH212669	5VCACRLE4BH212706	5VCACLE7BH212857
5VCACSLE4BH212633	5VCACRLE9BH212670	5VCACRLE6BH212707	5VCACLE9BH212858
5VCACLE9BH212634	5VCACRLE0BH212671	5VCACRLE8BH212708	5VCACLE0BH212859
5VCACLE0BH212635	5VCACRLE2BH212672	5VCACRLEXBH212709	5VCACLE7BH212860
5VCACLE2BH212636	5VCACRLE4BH212673	5VCACRLE6BH212710	5VCACLE9BH212861
5VCACLE4BH212637	5VCACRLE6BH212674	5VCACRLE8BH212711	5VCACLE0BH212862
5VCACLE6BH212638	5VCACRLE8BH212675	5VCACRLEXBH212712	5VCACLE2BH212863
5VCACLE8BH212639	5VCACRLEXBH212676	5VCACRLE1BH212713	5VCACRLE1BH212937
5VCACLE4BH212640	5VCACRLE1BH212677	5VCACRLE3BH212714	5VCACRLE3BH212938
5VCACLE6BH212641	5VCACRLE3BH212678	5VCACRLE5BH212715	5VCACRLE5BH212939
5VCACLE8BH212642	5VCACRLE5BH212679	5VCACRLE7BH212716	5VCACRLE1BH212940
5VCACLEEXBH212643	5VCACRLE1BH212680	5VCACDLE5BH212751	5VCACRLE3BH212941
5VCACLE1BH212644	5VCACRLE3BH212681	5VCACDLE7BH212752	5VCACSLEXBH213012
5VCACLE3BH212645	5VCACRLE5BH212682	5VCACDLE9BH212753	5VCACSLE1BH213013
5VCACLE5BH212646	5VCACRLE7BH212683	5VCACDLE0BH212754	5VCACSLE3BH213014
5VCACLE7BH212647	5VCACRLE9BH212684	5VCACDLE2BH212755	5VCACSLE5BH213015
5VCACLE9BH212648	5VCACRLE0BH212685	5VCACLE0BH212778	5VCACL7F6BH213064
5VCACRLE7BH212649	5VCACRLE2BH212686	5VCACLE2BH212779	5VCACRLE1BH213067
5VCACRLE3BH212650	5VCACRLE4BH212687	5VCACLE9BH212780	5VCACRLE3BH213068
5VCACRLE5BH212651	5VCACRLE6BH212688	5VCACLE0BH212781	5VCACRLE5BH213069
5VCACRLE7BH212652	5VCACRLE8BH212689	5VCACLE2BH212782	5VCACRLE1BH213070
5VCACRLE9BH212653	5VCACRLE4BH212690	5VCACLE4BH212783	5VCACRLE3BH213071
5VCACRLE0BH212654	5VCACRLE6BH212691	5VCACLE6BH212784	5VCACSLE6BH213072
5VCACRLE2BH212655	5VCACRLE8BH212692	5VCACLE8BH212785	5VCACSLE8BH213073
5VCACRLE4BH212656	5VCACRLEXBH212693	5VCACLEEXBH212786	5VCACS7F4CH213138



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5VCACLLE2CH213139	5VCACLLE6CH213659	5VCACLLEXCH214037	5VCACRLE1CH214074
5VCACLLE9CH213140	5VCACLLE2CH213660	5VCACLLE1CH214038	5VCACRLE3CH214075
5VCACLLE0CH213141	5VCACLLE4CH213661	5VCACLLE3CH214039	5VCACRLE5CH214076
5VCACLLE2CH213142	5VCACLLE6CH213662	5VCACLLEXCH214040	5VCACRLE7CH214077
5VCACLLE4CH213143	5VCACLLE8CH213663	5VCACLLE1CH214041	5VCACRLE9CH214078
5VCACLLE6CH213144	5VCACLLEXCH213664	5VCACLLE3CH214042	5VCACRLE0CH214079
5VCACLLE8CH213145	5VCACLLE1CH213665	5VCACLLE5CH214043	5VCACRLE7CH214080
5VCACLLEXCH213146	5VCACLLE3CH213666	5VCACLLE7CH214044	5VCACRLE9CH214081
5VCACLLE1CH213147	5VCACLLE5CH213667	5VCACLLE9CH214045	5VCACRLE0CH214082
5VCACLLE3CH213148	5VCACLLE7CH213668	5VCACLLE0CH214046	5VCACRLE2CH214083
5VCACLLE5CH213149	5VCACLLE9CH213669	5VCACLLE2CH214047	5VCACRLE4CH214084
5VCACLLE1CH213150	5VCACLLE5CH213670	5VCACLLE4CH214048	5VCACLLEXCH214085
5VCACSLE0CH213151	5VCACLLE7CH213671	5VCACLLE6CH214049	5VCACLLE1CH214086
5VCACSLE2CH213152	5VCACLLE9CH213672	5VCACLLE2CH214050	5VCACLLE7CH214299
5VCACSLE4CH213153	5VCACLLE0CH213673	5VCACLLE4CH214051	5VCACLLEXCH214300
5VCACSLE6CH213154	5VCACLLE2CH213674	5VCACLLE6CH214052	5VCACLLE1CH214301
5VCACSLE8CH213155	5VCACLLE4CH213675	5VCACLLE8CH214053	5VCACLLE3CH214302
5VCACSLEXCH213156	5VCACLLE6CH213676	5VCACLLEXCH214054	5VCACRLE5CH214319
5VCACSLE1CH213157	5VCACLLE8CH213677	5VCACLLE1CH214055	5VCACRLE1CH214320
5VCACSLE3CH213158	5VCACLLEXCH213678	5VCACLLE3CH214056	5VCACRLE3CH214321
5VCACSLE5CH213159	5VCACLLE1CH213679	5VCACL6FXCH214057	5VCACRLE5CH214322
5VCACSLE1CH213160	5VCACLLE8CH213680	5VCACLLE7CH214058	5VCACRLE7CH214323
5VCACSLE3CH213161	5VCACLLEXCH213681	5VCACLLE9CH214059	5VCACRLE9CH214324
5VCACSLE5CH213162	5VCACLLEXCH214023	5VCACLLE5CH214060	5VCACRLE0CH214325
5VCACSLE7CH213163	5VCACLLE1CH214024	5VCACLLE7CH214061	5VCACRLE2CH214326
5VCACSLE9CH213164	5VCACLLE3CH214025	5VCACLLE9CH214062	5VCACRLE4CH214327
5VCACSLE0CH213165	5VCACLLE5CH214026	5VCACLLE0CH214063	5VCACRLE6CH214328
5VCACRLE1CH213166	5VCACLLE7CH214027	5VCACLLE2CH214064	5VCACRLE8CH214329
5VCACRLE3CH213167	5VCACLLE9CH214028	5VCACLLE4CH214065	5VCACRLE4CH214330
5VCACRLE5CH213168	5VCACLLE0CH214029	5VCACL6F0CH214066	5VCACSLE9CH214332
5VCACSLE3CH213225	5VCACLLE7CH214030	5VCACL6F2CH214067	5VCACSLE0CH214333
5VCACSLE5CH213226	5VCACLLE9CH214031	5VCACRLE6CH214068	5VCACSLE2CH214334
5VCACSLE7CH213227	5VCACLLE0CH214032	5VCACRLE8CH214069	5VCACSLE4CH214335
5VCACLLE9CH213655	5VCACLLE2CH214033	5VCACRLE4CH214070	5VCACSLE6CH214336
5VCACLLE0CH213656	5VCACLLE4CH214034	5VCACRLE6CH214071	5VCACSLE8CH214337
5VCACLLE2CH213657	5VCACLLE6CH214035	5VCACRLE8CH214072	5VCACSLEXCH214338
5VCACLLE4CH213658	5VCACLLE8CH214036	5VCACRLEXCH214073	5VCACSLE0CH214378



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5VCACSLE2CH214379	5VCACLE0CH214614	5VCACLE6DH214750	5VCACLE3DH214835
5VCACSLE9CH214380	5VCACLE2CH214615	5VCACLE8DH214751	5VCACLE5DH214836
5VCACSLE0CH214381	5VCACLE4CH214616	5VCACLE9DH214752	5VCACLE7DH214837
5VCACSLE2CH214382	5VCACLE6CH214617	5VCACLE1DH214753	5VCACLE9DH214838
5VCACSLE4CH214383	5VCACRLE4CH214618	5VCACLE3DH214754	5VCACLE0DH214839
5VCACSLE6CH214384	5VCACRLE6CH214619	5VCACLE5DH214755	5VCACLE7DH214840
5VCACSLE8CH214385	5VCACLE6CH214620	5VCACLE7DH214756	5VCACLE9DH214841
5VCACSLEXCH214386	5VCACLE8CH214621	5VCACLE9DH214757	5VCACLE0DH214842
5VCACSLE1CH214387	5VCACSLE7CH214622	5VCACLE0DH214758	5VCACLE2DH214843
5VCACSLE3CH214388	5VCACSLE9CH214623	5VCACLE2DH214759	5VCACLE4DH214844
5VCACSLE5CH214389	5VCACSLE0CH214624	5VCACLE9DH214760	5VCACSLE5DH214846
5VCACSLE1CH214390	5VCACSLE2CH214625	5VCACLE0DH214761	5VCACSLE7DH214847
5VCACSLE3CH214391	5VCACSLE4CH214626	5VCACRLE9DH214762	5VCACSLE9DH214848
5VCACSLE5CH214392	5VCACSLE6CH214627	5VCACRLE0DH214763	5VCACSLE0DH214849
5VCACSLE7CH214393	5VCACSLE8CH214628	5VCACSLE3DH214764	5VCACSLE7DH214850
5VCACSLE9CH214394	5VCACSLEXCH214629	5VCACSLE5DH214765	5VCACSLE9DH214851
5VCACRLE6CH214409	5VCACRLE5CH214630	5VCACSLE7DH214766	5VCACSLE0DH214852
5VCACRLE2CH214410	5VCACRLE7CH214631	5VCACSLE0DH214799	5VCACSLE2DH214853
5VCACLE1CH214413	5VCACRLE9CH214632	5VCACSLE3DH214800	5VCACSLE4DH214854
5VCACLE6CH214438	5VCACRLE0CH214633	5VCACSLE5DH214801	5VCACSLE6DH214855
5VCACLE8CH214439	5VCACRLE2CH214634	5VCACSLE7DH214802	5VCACSLE8DH214856
5VCACSLE5CH214568	5VCACRLE4CH214635	5VCACSLE9DH214803	5VCACSLEXDH214857
5VCACSLE7CH214569	5VCACRLE6CH214636	5VCACSLE0DH214804	5VCACSLE1DH214858
5VCACSLE3CH214570	5VCACRLE8CH214637	5VCACSLE2DH214805	5VCACSLE8DH214873
5VCACSLE5CH214571	5VCACRLEXCH214638	5VCACSLE4DH214806	5VCACSLEXDH214874
5VCACLE9CH214572	5VCACRLE1CH214639	5VCACSLE6DH214807	5VCACLE4DH214875
5VCACLE1CH214573	5VCACLE5CH214687	5VCACSLE8DH214808	5VCACRLE6DH214878
5VCACLE3CH214574	5VCACLE7CH214688	5VCACSLEXDH214809	5VCACRLE8DH214879
5VCACLE5CH214575	5VCACLE7DH214725	5VCACSLEXDH214826	5VCACRLE4DH214880
5VCACLE7CH214576	5VCACLE9DH214726	5VCACSLE1DH214827	5VCACRLE6DH214881
5VCACLE9CH214577	5VCACLE0DH214727	5VCACSLE3DH214828	5VCACLE1DH214882
5VCACLE0CH214578	5VCACLE2DH214728	5VCACSLE5DH214829	5VCACLE3DH214883
5VCACLE2CH214579	5VCACLE4DH214729	5VCACSLE1DH214830	5VCACLE5DH214884
5VCACLE9CH214580	5VCACLE0DH214730	5VCACSLE3DH214831	5VCACLE7DH214885
5VCACLE0CH214581	5VCACLE2DH214731	5VCACSLE5DH214832	5VCACLE9DH214886
5VCACLE2CH214582	5VCACLE4DH214732	5VCACSLE7DH214833	5VCACLE0DH214887
5VCACLE9CH214613	5VCACSLEXDH214749	5VCACSLE9DH214834	5VCACLE2DH214888



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5VCACLE4DH214889	5VCACLE7DH215101	5VCACLEXDH215237
5VCACLE0DH214890	5VCACLE9DH215102	5VCACLE1DH215238
5VCACLE6DH214912	5VCACLE0DH215103	5VCACLE3DH215239
5VCACSLE5DH214913	5VCACLE2DH215104	5VCACS6F1DH215240
5VCACRLE3DH214918	5VCACLE4DH215105	5VCACL6F6DH215269
5VCACLE3DH214933	5VCACLE6DH215106	5VCACR6F9DH215284
5VCACLE5DH214934	5VCACLE8DH215107	5VCACR6F0DH215285
5VCACLE7DH214935	5VCACLEXDH215108	5VCACR6F2DH215286
5VCACLE9DH214936	5VCACLE1DH215109	5VCACLE2DH215376
5VCACLE0DH214937	5VCACSLE5DH215110	5VCACS6F0DH215469
5VCACS6F4DH214941	5VCACSLE7DH215111	5VCACS6F0DH215472
5VCACS6F6DH214942	5VCACS6F3DH215112	5VCACS6F2DH215473
5VCACS6F8DH214943	5VCACS6F5DH215113	5VCACS6F4DH215474
5VCACSLE9DH214946	5VCACS6F7DH215114	5VCACS6F6DH215475
5VCACSLE0DH214947	5VCACS6F9DH215115	
5VCACL6FXDH214948	5VCACS6F1DH215142	
5VCACSLE4DH214949	5VCACSLEXDH215152	
5VCACSLE0DH214950	5VCACRLE8DH215191	
5VCACS6F9DH215034	5VCACRLEXDH215192	
5VCACLE4DH215069	5VCACRLE1DH215193	
5VCACLE0DH215070	5VCACRLE3DH215194	
5VCACLE2DH215071	5VCACRLE5DH215195	
5VCACLE4DH215072	5VCACRLE7DH215196	
5VCACLE6DH215073	5VCACRLE9DH215197	
5VCACLE8DH215074	5VCACRLE0DH215198	
5VCACLEXDH215075	5VCACRLE2DH215199	
5VCACLE1DH215076	5VCACRLE5DH215200	
5VCACLE3DH215077	5VCACRLE7DH215201	
5VCACLE5DH215078	5VCACRLE9DH215202	
5VCACLE7DH215079	5VCACLE6DH215221	
5VCACLE3DH215080	5VCACLE8DH215222	
5VCACLE5DH215081	5VCACLEXDH215223	
5VCACLE7DH215082	5VCACLE1DH215224	
5VCACLE9DH215097	5VCACLE3DH215225	
5VCACLE0DH215098	5VCACLE5DH215226	
5VCACLE2DH215099	5VCACLE6DH215235	
5VCACLE5DH215100	5VCACLE8DH215236	