



Service Parts Instructions

Automatic Slack Adjuster Installation Instructions

Part Numbers M808002, M808003, M808004,
M808005, M808022, M808023, M808024,
M808026, M808027, M808028, M808029,
M808030

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 or fall over. Serious personal injury and damage to components can result.

How to Obtain Additional Maintenance, Service and Product Information

Refer to Maintenance Manual 4, Cam Brakes and Automatic Slack Adjusters, for additional information. To access this publication, visit Literature on Demand at Meritor.com.

Automatic Slack Adjuster Installation

This technical bulletin provides instructions for installing the automatic slack adjuster (ASAs), part numbers M808002, M808003, M808004, M808005, M808022, M808023, M808024, M808026, M808027, M808028, M808029, M808030, and ensuring correct brake setup after installation.

Procedure

1. Wear safe eye protection. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Release the parking brake.
2. Check that the brake chamber push rod is in the fully released position as shown in Figure 4. With spring brakes, a minimum pressure of 80 psi (5.52 bar) is required in the system to ensure that the push rod is in the fully extended position.

3. Remove the top nut and washer from the air chamber mounting stud. Figure 1. Install the strap bracket and reinstall the nut and washer. Figure 2.

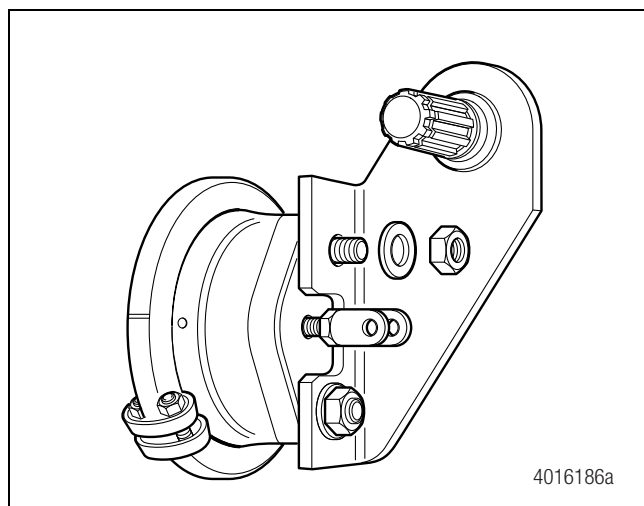


Figure 1

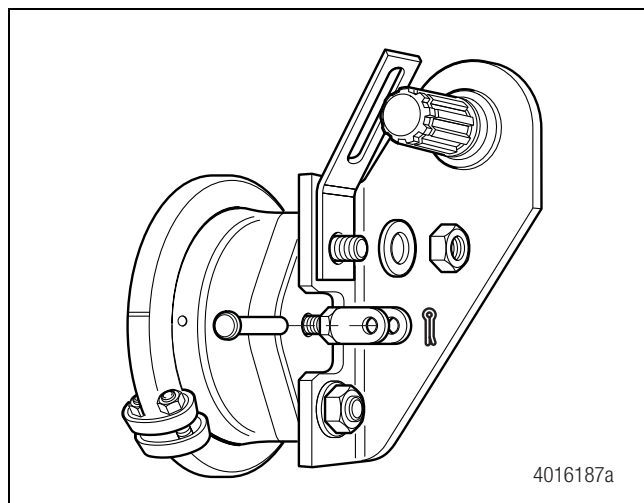


Figure 2

4. Coat the camshaft splines with anti-seize lubricant. Figure 3.

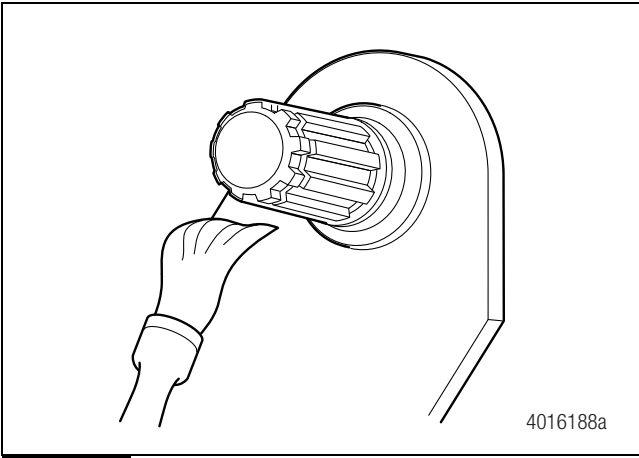


Figure 3

5. Install the self setting automatic slack adjuster (S-ASA) onto the camshaft so that the adjustment hex nut points away from the air chamber. Figure 4.

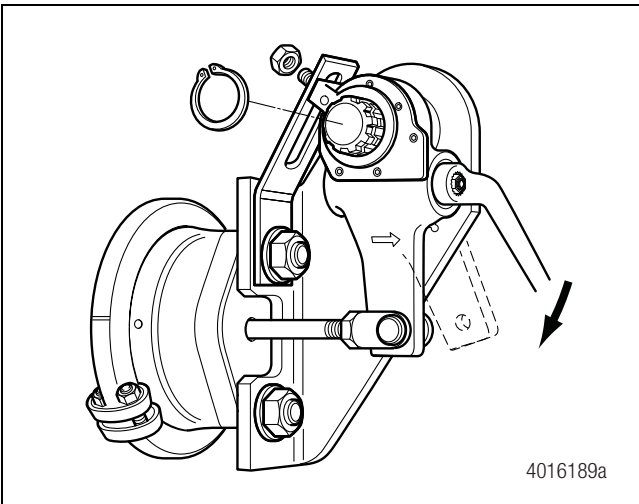


Figure 4

6. Position the S-ASA into the clevis on the brake chamber push rod by rotating the hex nut on the S-ASA in a clockwise direction until the hole in the S-ASA lines up with the hole in the clevis. Ensure the push rod has remained in the fully extended position.
7. Install the clevis pin into the clevis through the S-ASA and secure it. Figure 2. The pin should rotate freely when no load is applied.
8. Secure the S-ASA on the camshaft with a snap ring. Ensure that the S-ASA is not pinched or restricted, or has excessive end play on the camshaft. Refer to MM-4 for axial camshaft allowable tolerances.

Add and/or remove washers of an appropriate thickness to achieve correct axial end play.

9. Insert the flat end of the anchor stud through the S-ASA control arm bushing. Rotate the control arm, in either direction, so that the anchor stud aligns with the slot on the strap bracket. Figure 5. Push the threaded end of the stud into the strap bracket slot. The shoulder adjacent to the threaded end of the stud must engage the slot correctly to prevent the stud from rotating. Figure 6.

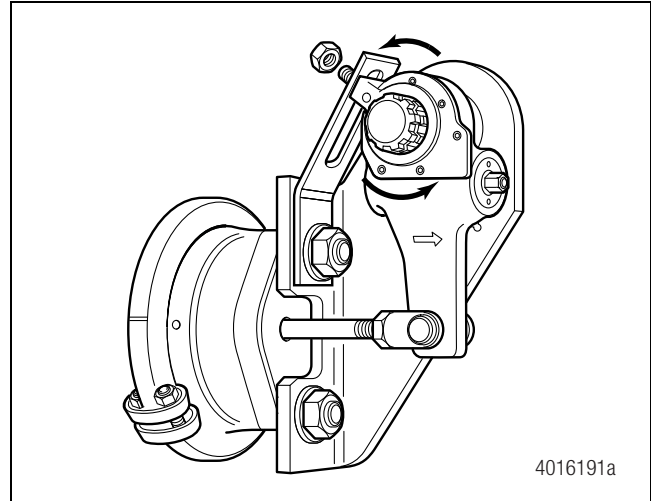


Figure 5

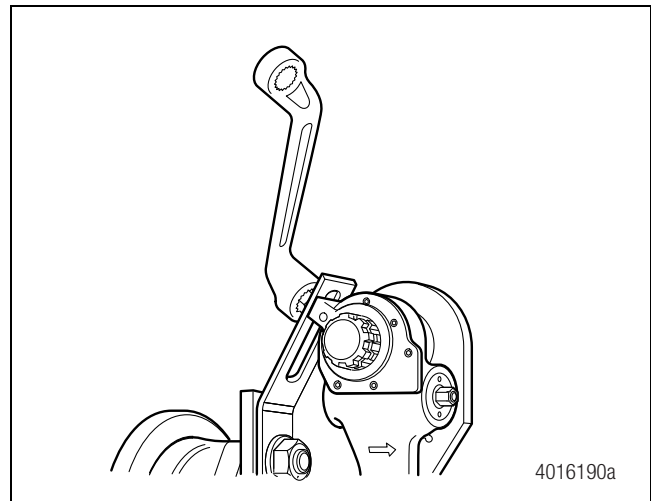


Figure 6

10. Adjust the S-ASA by rotating the hex nut on the S-ASA clockwise (1) until the brake lining touches the brake drum, then back-off by rotating the hex nut a 3/4 turn counter-clockwise (2). Backing-off the hex nut will produce a loud clicking noise. Figure 7.

Apply and release the brake while watching the adjuster hex. Verify that the S-ASA is working when the hex nut rotates clockwise on the return stroke.

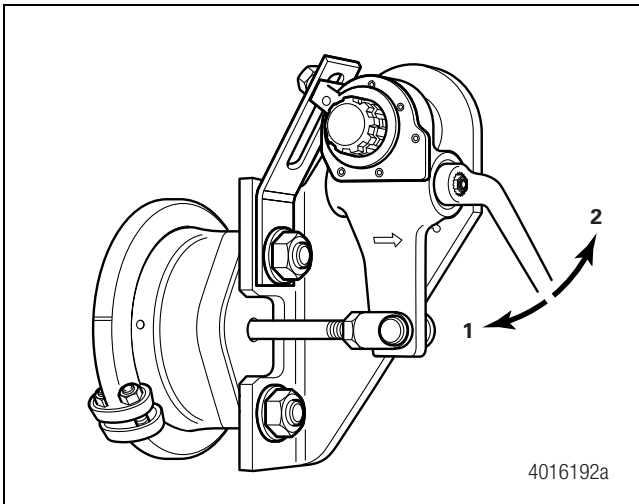


Figure 7

11. Refer to MM-4 for correct final brake adjustment and applied stroke procedures and specifications.

To complete the job, install the Meritor SimpleCheck™.

The Meritor SimpleCheck can be installed on standard or long-stroke air brake chambers with welded or threaded clevises. When installing SimpleCheck on a brake chamber push rod, make certain there is enough clearance between the clevis lock nut and the brake chamber housing.

12. Install the SimpleCheck green disc directly onto the push rod at the back face of the air brake chamber housing. Mounted directly onto the push rod in that way, the green SimpleCheck disc simply moves with the push rod when the brake is applied, providing a visual indication of whether the push rod stroke is acceptable.

Maintenance

Lubricate the S-ASA according to the maintenance schedule in Table A.

During brake inspection or maintenance, if brake stroke is outside of limits, check the S-ASA as follows:

With a torque wrench on the hex nut on the S-ASA, turn it counter-clockwise and confirm that the mechanism does not slip at a torque of less than 15 lb-ft (20 N•m). Repeat the exercise three times. If the mechanism slips at a lower torque, replace the S-ASA.

Do NOT attempt to repair the S-ASA.

Table A: Lubrication Maintenance Schedule

- For standard service on-highway applications, Meritor recommends greasing at 12-month intervals.
- For heavy duty, off-highway or city transit applications, Meritor recommends greasing at 3-month intervals.

NOTE: Moly (Molybdenum-Disulphide) grease or oil is prohibited.



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