

# MERITOR® ALLFIT® CLEARANCE-SENSING AUTOMATIC SLACK ADJUSTERS



MERITOR

## IDEAS DRIVING RESULTS

PROVIDES CONSISTENT BRAKE  
PERFORMANCE AND BALANCE.



MERITOR

ALLFIT

## Clearance-Sensing Technology. Consistent Brake Performance.

The Meritor AllFit Clearance-Sensing ASA utilises the clearance sensing method to maintain a predetermined clearance between the lined brake shoe and the brake drum on an axle.

The ASA adjusts as the brake lining and drum wear to maintain the clearance providing consistent brake performance throughout the lining life, as well as consistent balance between individual brakes. The AllFit Clearance-Sensing ASA also assists in keeping brake stroke within the legal limits.

Meritor AllFit  
Clearance Sensing ASA



Part Number	Spline Diameter No. Teeth	Lever Length	Clevis Type	Clevis Thread	Application
R806003A	1-1/2" X 28	5-1/2"	Straight	5/8" - 18	Kenworth 8 Bag
R806004	1-1/2" X 28	5-1/2"	Straight	5/8" - 18	Drive Axle
R806015	1-1/2" X 10	6"	Straight	5/8" - 18	Trailer
R806023A	1-1/2" X 10	5" 6"	Straight	5/8" - 18	Drive Axle
R806024A	1-1/2" X 28	5" 6"	Straight	5/8" - 18	Drive Axle
R806025A	1-1/2" X 28	5-1/2"	Straight	5/8" - 18	Steer Axle
R806026A	1-1/2" X 28	5- 1/2 " 6- 1/2"	Straight	5/8" - 18	Drive Axle

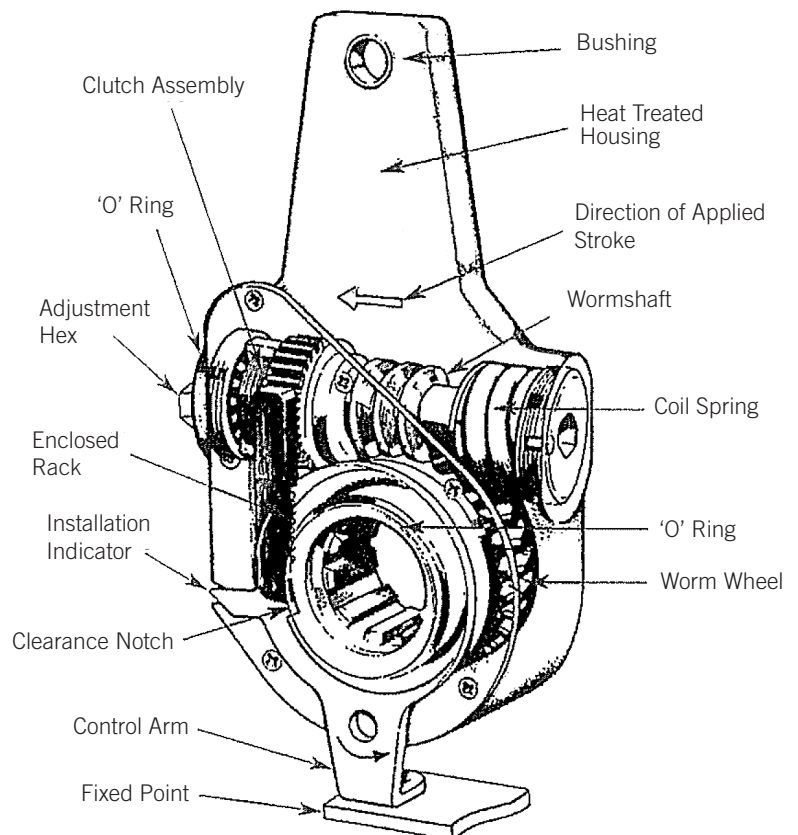
## How do Clearance-Sensing Automatic Slack Adjusters Work

### When the Brake Applies:

Upon brake application, the brake adjuster rotates and moves the shoes into contact with the drum. The clearance notch corresponds to the normal lining-to-drum clearance. As the brake application continues, the rack moves upward and rotates the one-way clutch which slips in this direction. As the brake torque increases, the coil spring load is overcome and the wormshaft is displaced axially, releasing the cone clutch.

### When the Brake Releases:

When the brake begins its return stroke, the coil spring load returns to normal and the cone clutch is again engaged. The rack is pulled back to its original position in the notch, and any additional travel brought about by lining wear causes the rack to turn the locked one-way clutch and rotates the wormshaft through the locked cone clutch. The wormshaft then rotates the worm wheel and camshaft, adjusting the brakes.



Please refer to PB-8857 for application and part numbers.



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