



Technical Bulletin

Instructions for End Play Bearing Adjustment Installation

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 only supported by jacks. Jacks can slip or fall over. 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-0409, Wheel-End Components. To obtain this publication, visit Literature on Demand at meritor.com.

Temper-Loc® Spindle Nuts

Before Using a Temper-Loc Spindle Nut

Select the correct Temper-Loc nut size for the spindle. Remove the yellow retainer ring. Disengage each of the locking tabs from the nut groove by pulling in on each of the side finger tabs, one at a time, and then removing the EasyView center tab from the nut groove. Save the yellow retainer ring for re-installation later. Figure 1.

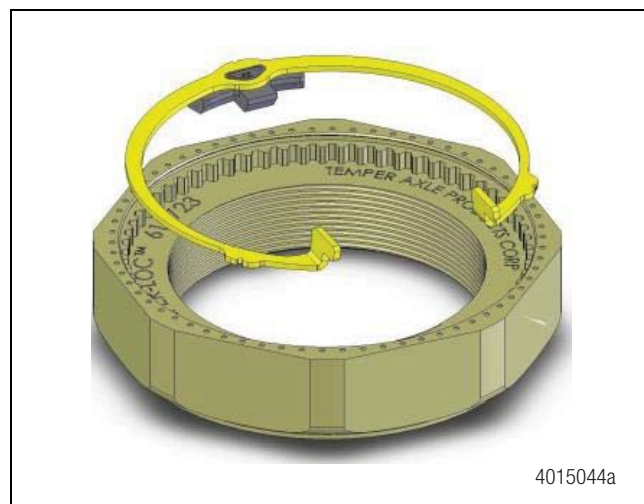


Figure 1

Thoroughly inspect the retainer ring and nut. Check for bent, cracked or otherwise damaged retainer. The two side finger tabs of the retainer ring must spring out to both sides of the nut groove. The key must not be loose in the retainer ring. Discard and replace the retainer ring if there is any suspicion of damage. Inspect nuts for chips, cracks or other damage. If any damage is evident, discard and replace the Temper-Loc nut.

End Play Settings

1. Install the nut and seat the bearing rollers. Thread the correct size Temper-Loc nut onto the spindle until it is up against the outer bearing. Tighten to 200 lb-ft (271 N•m) of torque, while spinning the wheel hub in either direction. Note that at least 200 lb-ft (271 N•m) of torque is required in order to correctly seat the hub and bearing rollers. Loosen the nut one-half turn. ⚙
2. Tighten to 100 lb-ft (136 N•m) of torque while spinning the wheel hub in either direction. Turn back the nut according to the setting in Table A.

- End Play Settings Must Always Be Measured To Verify Adjustment Setting On Every Wheel End.** Industry guidelines recommend acceptable end play settings between 0.001" and 0.005" (0.0254 and 0.127 mm) clearance. If end play measures greater than 0.005" (0.127 mm), tighten the Temper-Loc nut and re-measure. If no end play is measured, loosen the nut until end play is measured. Repeat until the end play measurement is within the acceptable range.

⚠ WARNING

Inspect the retainer ring to confirm it is correctly installed. Failure to do so may result in component failure and bodily injury.

- Install the retainer ring. After satisfactory adjustment is verified, re-install the yellow retainer ring. First, insert the EasyView center tab into the groove of the nut by holding the retainer at an angle to the nut while engaging the key in the axle keyway. Next, squeeze each side finger tab to engage the notched locking end tabs into the nut groove, one at a time.

The EasyView notches of all three tabs must be completely hidden in the nut groove to be sure of correct retainer engagement. Figure 2 and Figure 3.

Retainer Installation

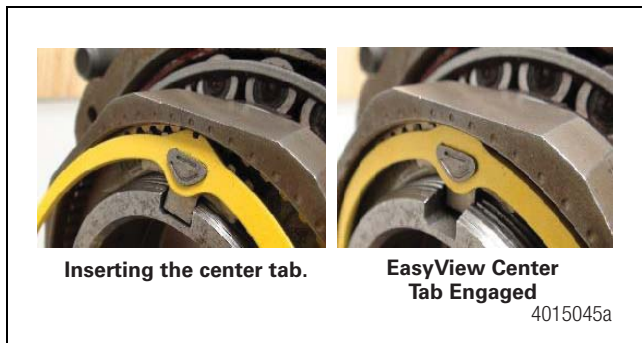


Figure 2

Check that the EasyView tabs and the locking teeth of the key are fully seated in the nut.

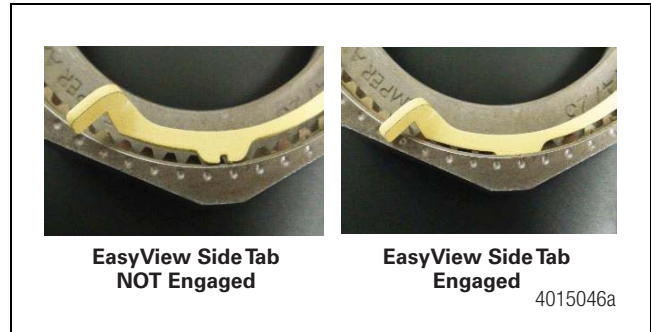


Figure 3

Table A: Quick Adjust for Emergency End Play Settings

Spindle Size	Turn Back Amount	
	Degrees	Approx. Turn
TN (Std. Trailer)	66°	1/6 turn
TP (Propar Trailer)	44°	1/8 turn
FF (Steer Axle)	52°	1/8 turn
R (Drive Axle)	84°	1/4 turn



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Printed in USA

TP-1914
Issued 03-19
(16579)