

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

The EasyView notches of all three tabs must be completely hidden in the nut groove to be sure of correct retainer engagement. See photo series.

RETAINER INSTALLATION



Inserting Center Tab



EasyView Center Tab Engaged

CHECK THAT THE EasyView® TABS AND THE LOCKING TEETH OF THE KEY ARE FULLY SEATED IN THE NUT.



EasyView Tab **NOT** Engaged



EasyView Side Tab Engaged

TABLE I : 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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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.



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Leading the world in bearing adjustment technology

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Temper-Loc® Spindle Nuts

Instructions for Installation and Use

ONLY QUALIFIED TECHNICIANS SHOULD ASSEMBLE AND ADJUST TRUCK WHEEL ENDS.

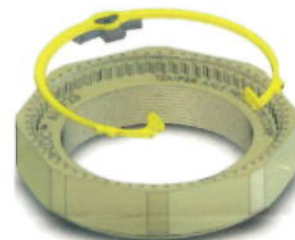
Adjusting Wheel End Bearings Using Doctor Preload®

We recommend using Doctor Preload tools made by Temper for adjusting wheel ends to optimal light preload settings for the best possible wheel end performance. See further information, and videos, and separate instructions at www.doctorpreload.com.

Before Using

Select 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 center tab from the nut groove. Save the yellow retainer ring for re-installation later.



Thoroughly inspect the retainer ring and nut. Check for bent, cracked or otherwise damaged retainer. The two side tabs of the retainer ring must spring out to both sides of the locknut 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 locknuts for chips, cracks or other damage. If any damage is evident, discard and replace the Temper-Loc nut.

For Emergency End Play Settings

A manual procedure utilizing torque wrenches may be used when Doctor Preload is not available.

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 ft-lbs torque, while spinning the wheel hub in either direction. Note that at least 200 ft-lbs of torque is required in order to properly seat the hub and bearing rollers. Loosen the nut one-half turn.
2. Tighten to 100 ft-lbs of torque while spinning the wheel hub in either direction. Turn back the nut according to Table I on the reverse side.

End Play Settings Must Always Be Measured To Verify Adjustment Setting On Every Wheel End. Industry guidelines recommend acceptable end play settings between .001" and .005" clearance. If end play measures greater than .005", tighten the Temper-Loc nut and re-measure. If no end play is measured, loosen the nut until endplay is measured. Repeat until endplay measurement is in the acceptable range.

3. Install the Retainer. 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 end finger tab to engage the notched end tabs into the nut groove, one at a time.