

PRO-TORQ® ADVANCED AXLE SPINDLE NUTS



UNRIVALED PRECISION AND SERVICE LIFE

Increase tire life and reduce premature wheel seal failure with the proven performance of the Pro-Torq® axle spindle nut. With back off increments down to 0.001 inch and exacting cup and cone alignment on the spindle, nothing compares to the reliability and precision of Pro-Torq.

Increased Tread Life

Controls axial motion, holding bearing end play near zero for longer tread life.

Precise Bearing Adjustment

Minimizes premature seal failure and improves seal and brake lining programs.

Compensates For Wear

Allows 0.001 inch back off increments to keep bearings aligned, running cooler and lasting longer.

Improves ABS

Helps ensure accurate wheel-speed monitoring on anti-lock braking systems.

Single-Nut Design

Eliminates potential for overtightening the jam nut and pushing the outer bearing cone out of position.

Easy to Install

Only one nut means less time wasted trying to reposition multiple-nut assemblies.

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SPINDLE NUT APPLICATIONS	REPLACEMENT KEEPER PART NUMBER	THREAD SIZE	OUTER BEARING CONE / CUP	TOOL SOCKET
TRAILER AXLE				
STEMCO No. 447-4723 Fruehauf Pro-par, Meritor TP <small>*Axle date code post January 1, 2006</small>	450-4723	3.480"-12	HM518445 / HM518410	4 13/16"- 8 point (OTC# 1941)
STEMCO No. 447-4724 22,500-23,000# Eaton, EST 230-P, EST 225-P, P-22	450-4723	3 1/2"-12	HM518445 / HM518410	4 13/16"- 8 point (OTC# 1941)
STEMCO No. 447-4743 17,000-22,500# Meritor, Dana, Eaton, Std Forge, Ingersoll	450-4743	2 5/8"-16	HM212049 / HM212011	3 3/4"- 8 point (OTC# 1925)
STEMCO No. 449-4973 Dana Est-230-P, *P22 Axles or TQ <small>*Axle date code post January 1, 2006</small>	450-4973	3 1/4"-12	HM518445 / HM518410	4 3/8"- 8 point (OTC# 1917)
STEER AXLE				
STEMCO No. 448-4836 12,000# Meritor, Navistar	450-4836	1 1/2"-12	3782 / 3720	2 1/2"- 6 point (OTC# 1921)
STEMCO No. 448-4837 12,000# Eaton, Ford, Meritor	450-4837	1 1/2"-18	3782 / 3720	2 1/2"- 6 point (OTC# 1921)
STEMCO No. 448-4838 Meritor	450-4837	1 1/2"-12	3782 / 3720	2 1/2"- 6 point (OTC# 1921)
STEMCO No. 448-4839 12,000#, 14,300# Mack	450-4839	1 5/8"-12	45280 / 45220	2 5/8"- 6 point (OTC# 1922)
STEMCO No. 448-4864 18,000#, 20,000# Mack	450-4864	2"-12	5555 / 552A	3"- 6 point (OTC# 1906)
STEMCO No. 448-4865 Meritor FL Series	450-4865	1 3/4"-12	5555 / 552A 3720 / 3979	3"- 6 point (OTC# 1906)
DRIVE AXLE				
STEMCO No. 449-4904 34,000#, 38,000#, 44,000# Mack	450-4904	2 7/8"-12	47679 / 47620 575 / 572 567 / 563	4 1/8"- 6 point (OTC# 1915)
STEMCO No. 449-4973 34,000-46,000# Eaton, Meritor, Dana, Navistar, 50,000# Mack	450-4973	3 1/4"-12	580 / 572	4 3/8"- 8 point (OTC# 1917)
STEMCO No. 449-4974 Meritor, Eaton, Ford, Navistar	450-4743	2 5/8"-12	3984 / 3920 39590 / 39520	3 3/4"- 8 point (OTC# 1925)
STEMCO No. 449-4975 19,000# Dana, Navistar, Bluebird	450-4975	2 5/8"-12	3984 / 3920 39590 / 39520	3 3/4"- 8 point (OTC# 1925)

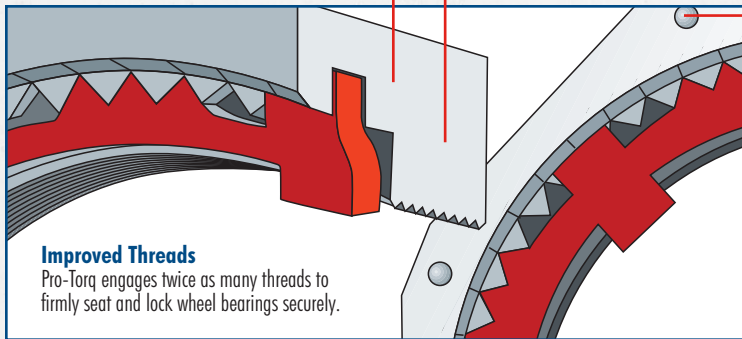
PRO-TORQ ADVANCED AXLE SPINDLE NUT DESIGN FEATURES

Superior Wear Resistance

Bearing contact surface is induction-hardened. No washers required.

Flat Contact Surface

Improves wheel bearing cup and cone alignment.



Improved Threads

Pro-Torq engages twice as many threads to firmly seat and lock wheel bearings securely.

Highly Visible Adjustment Marks

Give technicians precise control of nut back off amount during installation.

Infinite Locking Positions

Nut and spring-steel keeper mate and lock at any point on the axle spindle in 0.001" axial increments.

COST-SAVING INSTALLATION

For more than 20 years, leading fleets have chosen Pro-Torq to deliver the longer service life they expect from today's tires, wheel seals and bearings. Pro-Torq minimizes wheel-bearing adjustment variability, providing extended maintenance intervals and trouble-free performance from steer, drive and trailer axle wheel ends.

TIGHT BEARING ADJUSTMENT CONTROL

Pro-Torq gives fleets the ability to standardize wheel end maintenance practices and makes repeatable, close-tolerance bearing adjustment a reality. From technician to technician, when the Pro-Torq 2-1-1 adjustment procedure is followed, wheel-bearing end play adjustment of 0.001-0.003" can be accurately achieved.

Pro-Torq avoids the extremes of preload and excessive bearing end play, giving fleets the tightest adjustment standard in the industry.

FASTER TO INSTALL, EASIER TO LOCK

Pro-Torq assures bearings are precisely and positively locked in position the first time, because with Pro-Torq there is no jamming, juggling, or wasting time working with multiple-nut assemblies. That's because Pro-Torq uses only one nut.

Clearance in the threads of traditional jamming-type nuts can result in a wide range of final settings. Technicians can unintentionally impose preload on a bearing by over-tightening jam nut systems. As a result, the outer bearing cone can be pushed further up the spindle and out of its intended position.

Pro-Torq takes the guesswork out of bearing adjustment!

Making the Roadways Safer®

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Technical Information

Tech Tip #023

April 16, 2001

Pro-Torq® Keeper Replacement Interval

STEMCO is very conscious of the role it plays in safety. Product safety is built into the product from the initial design, considered throughout the manufacturing processes, and is accounted for in product installation. The Pro-Torq® Advanced Axle Spindle Nut is designed to address potential failure modes and is manufactured to consistently high quality standards as a part of STEMCO's focus on safe products and practices. The purpose of this tech tip is to provide the recommended practice of replacing the locking mechanism, known as the "keeper" each time the Pro-Torq® nut assembly is removed for maintenance purposes.

The chart below is a reference for the replacement keeper part numbers.

PRO-TORO® NUT ASSEMBLY PART NUMBER	PRO-TORO® REPLACEMENT KEEPER PART NUMBER
447-4723	450-4723
447-4724	450-4723
447-4743	450-4743
448-4836	450-4836
449-4973	450-4973
448-4836	450-4836
448-4837	450-4837
448-4838	450-4836
448-4839	450-4839
448-4864	450-4864
449-4904	450-4904
449-4973	450-4973
449-4974	450-4743
449-4975	450-4975
448-4865	450-4865

As a component supplier to the heavy-duty industry, STEMCO treats safety very seriously and endorses this practice of replacing the Pro-Torq® keeper each time it is removed for routine maintenance.



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A Higher Standard of Performance.™

QS 9000 & ISO 9001



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