

H TECHNICAL PROCEDURE

SOFTEK[®] NXT Front Suspension System for Peterbilt Vehicles

SUBJECT: Axle Clamp Through Bolt Torque Pre-delivery Inspection and Other Preventive Maintenance Procedures LIT NO: 17730-338 DATE: March 2020 REVISION: A

IMPORTANT

INTRODUCTION

This publication summarizes the proper pre-delivery inspection procedure for axle clamp through bolt torques and other preventive maintenance procedures for SOFTEK NXT suspension systems equipped on applicable Peterbilt vehicles. This information is intended as a supplement to Hendrickson Technical Procedure Literature No. 17730-289.

Following appropriate inspection and preventive maintenance procedures is important to help ensure the proper service and operation. Hendrickson recommends the axle clamp through bolts and other SOFTEK NXT system fasteners are inspected for proper torque at:

- Pre-delivery
- Within the first 1,000 miles of service; and
- Regular preventive maintenance intervals

Other inspections and proper lubrication should be conducted at Hendrickson's recommended preventive maintenance intervals summarized in this publication.

Refer to Hendrickson Literature No. 17730-289 (available at www.hendrickson-intl.com) for complete SOFTEK NXT suspension inspection procedures, important safety information, and preventive maintenance details.

AXLE CLAMP THROUGH BOLTS

WARNING

A TECHNICIAN USING A SERVICE PROCEDURE OR TOOL WHICH HAS NOT BEEN RECOMMENDED BY HENDRICKSON MUST FIRST SATISFY HIMSELF THAT NEITHER HIS SAFETY NOR THE VEHICLE'S SAFETY WILL BE JEOPARDIZED BY THE METHOD OR TOOL SELECTED. INDIVIDUALS DEVIATING IN ANY MANNER FROM THE INSTRUCTIONS PROVIDED WILL ASSUME ALL RISKS OF CONSEQUENTIAL PERSONAL INJURY OR DAMAGE TO EQUIPMENT INVOLVED.



TORQUE INSPECTION



		OOSE OR OVER TORQUE	D FASTENERS CAN CAUS	SE COMPONENT	DAMAGE, LOSS OF VEHICLE	
		CONTROL, PROPERTY DAMAGE, OR SEVERE PERSONAL INJURY. MAINTAIN CORRECT TORQUE VALUES AT ALL TIMES. CHECK TORQUE VALUES ON A REGULAR BASIS AS SPECIFIED.				
NOT	E /	A popping noise coming fi service facility for a torque	rom the steer axle area mo e inspection to ensure fast	ay indicate loose teners are tighter	fasteners. Proceed to the next ned to specification.	
	I	1. Chock the wheels.				
		 Tighten the axle clamp fasteners at the bolt head evenly in 140 foot pounds increments to 1420 ± 20 foot pounds torque, see Figures 1 and 2. 				
	3	 To identify the torque clamp and bolt heads 	inspection is completed, o	apply a mark with	n torque seal to both the axle	
	I	LUBRICATION INTERVALS				
	F f S	For vehicles equipped with the SOFTEK NXT system, regular lubrication intervals should be followed to help prevent premature wear to the kingpin bushings and tie rod ends, see Lubrication Specifications below.				
NOTE		The recommended service lubrication interval is a guideline, the vehicle may require increased lubrication interval depending on severity of operation.				
		SOFTEK NXT – *Gred	ising and Lubrication S	pecifications		
	Application	Component	Greasing Intervals	Grease	Outside Temperature	
GENERAL	Does not include linehaul or medium-duty applications	Kingpin Bushings Tie Rod Ends	Maximum of 25,000 miles (40,225 km) or 90 days, whichever comes first	Multipurpose Grease NLGI Grade 2	Refer to the lubricant manufacturer's specifications for the temperature service limits applicable to your area	
		ity **Leaf Spring Threaded Bushing (if equipped)	Maximum of 30,000 miles (24,140 km) or 30 days, whichever comes first	EP Chassis Grease NLGI Grade 2		

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Greater than 50,000 miles per year (80,500 kilometers per year)

Linehaul Only, High

Mileage Accumulation

95% Highway Surface

No off-roadway operation

NOTE: * Lubrication greases acceptable for use on the SOFTEK NXT axle will carry a designation of NLGI #2 EP and rated GC-LB or equivalent.

See Vehicle Manufacturer

Maximum of 100,000

miles (161,000 km) or

Maximum of 30,000

miles (24,140 km) or

See Vehicle Manufacturer

30 days, whichever

1 year, whichever

comes first

comes first

Application Specific Recommendations

** Leaf springs equipped with threaded bushings are supplied by the vehicle manufacturer. Consult vehicle manufacturer for greasing intervals and additional information.

*** Leaf springs equipped with rubber bushings require no grease interval.

Drag Link

Kingpin Bushings

Tie Rod Ends

**Leaf Spring

(if equipped)

Drag Link

Threaded Bushing

Refer to the lubricant

specifications for the

temperature service limits

applicable to your area

manufacturer's

Multipurpose

NLGI Grade 2

EP Chassis

NLGI Grade 2

Grease

Grease

COMPONENT INSPECTION

- Axle wrap Check torque. Inspect axle seats for cracks or damage. Inspect axle seat liners, check for any missing liner material. If liner material is missing disassemble clamp group and replace liners, see Component Replacement Section of Hendrickson Literature No. 17730-289.
- Clamp group Check torque on clamp group mounting hardware, refer to the Torque Specifications Section of Hendrickson Literature No. 17730-289.
- Fasteners Look for any loose or damaged fasteners on the entire suspension. Make sure all fasteners are tightened to the specified torque. Refer to the Torque Specifications Section of Hendrickson Literature No. 17730-289, if fasteners are supplied by Hendrickson, non-Hendrickson fasteners, refer to the vehicle manufacturer. Use a calibrated torque wrench to check torque in a tightening direction. As soon as the fastener starts to move, record the torque. Correct the torque if necessary. Replace any worn or damaged fasteners.
- Operation All steering components must move freely through the full range of motion from axle stop to axle stop.
- Rear shackle bracket Check for proper alignment with spring taper and check for proper torque on rear spring mount fasteners. Refer to the Torque Specifications Section of Hendrickson Literature No. 17730-289.
- Shock absorbers Look for any signs of dents or leakage, misting is not considered a leak. See Shock Absorber Inspection in Hendrickson Literature No. 17730-289.
- Steel leaf spring Look for cracks. Replace if cracked or broken. Check the front bushing for any wear or deterioration. Replace if necessary, see the Component Replacement Section of Hendrickson Literature No. 17730-289 for replacement procedure.
- Steering pivot points Check for looseness at all pivot points. Inspect and lubricate all pivot points. Refer to the Troubleshooting Guide Section of Hendrickson Literature No. 17730-289.
- Tire wear Inspect tires for wear patterns that may indicate suspension damage or misalignment. See Tire Inspection in Hendrickson Literature No. 17730-289.
- Wear and damage Inspect all parts of suspension for wear and damage. Look for bent or cracked parts. Replace all worn or damaged parts.

Also see vehicle manufacturer's applicable publications for other preventive maintenance requirements.

Refer any questions on this publication, contact Hendrickson Tech Services:



Toll-free U.S. and Canada 1.866.755.5968 Outside U.S. and Canada 1.630.910.2800



Parts Identification truckparts@hendrickson-intl.com Technical Support techservices@hendrickson-intl.com



1.630.910.2899



Additional Hendrickson Product Information www.hendrickson-intl.com

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors. All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.

Call Hendrickson at 1.866.755.5968 (toll-free) or 1.630.910.2800 for additional information.

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TRUCK COMMERCIAL VEHICLE SYSTEMS

800 South Frontage Road Woodridge, IL 60517-4904 USA 1.866.755.5968 (Toll-free U.S. and Canada) 1.630.910.2800 (Outside U.S. and Canada) Fax 1.630.910.2899

www.hendrickson-intl.com

17730-338 Rev A 03-20

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