

Service Information Letter



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Component	Steertek NXT High Capacity Steer Axle
Apparatus type	Rosenbauer America Chassis
Affected apparatus	2018 - Current Rosenbauer Commander and 2021 - Current Rosenbauer Warrior

Preventative Maintenance Reminder

To ensure proper maintenance and operation of the Steertek NXT High Capacity systems, Hendrickson recommends a pre-delivery inspection within the first 100 miles (500 km). Please read the attached preventative maintenance recommendation from the Hendrickson Steertek NXT High Capacity Steer Axle System manual. It outlines what to visually inspect for and includes information on lubrication intervals.

Notify Rosenbauer for assistance if needed.

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SECTION 7 Preventive Maintenance

Following appropriate inspection procedures are important to help ensure the proper maintenance and operation of the STEERTEK NXT High Capacity systems and components parts.

NOTE Torque values shown in this publication apply only if Hendrickson supplied fasteners are used. If non-Hendrickson fasteners are used, follow the torque specifications listed in the vehicle manufacturer's service manual.

HENDRICKSON RECOMMENDED INSPECTION INTERVALS

Visually inspect for proper assembly and function. Check for all of the following and replace components as necessary:

- Signs of unusual movement, loose or missing components
- Signs of abrasive or adverse contact with other components
- Damaged, or cracked parts
- Improper suspension function or alignment

Visually inspect the overall condition and for any signs of damage to:

- Axle assembly
- Leaf spring assembly and bushings
- Clamp group

Inspect all fasteners for proper torque using a calibrated torque wrench

Refer to vehicle manufacturer's applicable publications for other preventive maintenance requirements.

PRE-DELIVERY INSPECTION	FIRST IN-SERVICE INSPECTION	PREVENTIVE MAINTENANCE
Within the first 100 miles (500 km)	Within the first 1,000 miles (1,600 km) or 100 hours	Vocational 25,000 miles (40,000 km) every 6 months or whichever comes first

COMPONENT INSPECTION

- **Axle collar through bolts** — Check for loose axle mounting hardware, refer to the Axle Collar Through Bolts in this section.
- **Axle seat** — 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 this publication.
- **Fasteners** — Inspect for any loose or damaged fasteners on the entire suspension. Ensure all fasteners are tightened to the specified torque. Refer to the Torque Specifications section of this publication 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.
- **Leaf Spring & clamp group assembly** — Check tightening torque on clamp group mounting hardware, refer to the Leaf Spring & Clamp Group Assembly Re-torque Interval in this section.
- **Front and rear leaf spring hangers** — Check for cracks or loose mounting hardware and for proper fastener torque values using a calibrated torque wrench. Replace if necessary, see Component Replacement section of this publication for replacement procedure.
- **Operation** — All steering components must move freely through the full range of motion from axle stop to axle stop.
- **Shock absorber** — Look for any signs of dents or leakage, misting is not considered a leak. See Shock Absorbers in this section.
- **Steel leaf spring** — Inspect for cracks. Replace if cracked or broken. Check leaf spring bushings for any wear or deterioration. Replace leaf spring assembly as necessary, see the Component Replacement section of this publication for replacement procedure.



- **Steering pivot points** — Check for looseness at all pivot points. Inspect and lubricate all pivot points. Refer to Lubrication Intervals in this section.
- **STEERTEK NXT High Capacity axle and tie rods** — Inspect for any cracks or dents on the axle, and also refer to the Tie Rod Ends lubrication and inspection procedure in this section. Replace as necessary.
- **Tire wear** — Inspect tires for wear patterns that may indicate suspension damage or misalignment, see Visual Tire Inspection in this section.
- **Wear and damage** — Inspect all parts of the suspension for wear and damage. Look for bent or cracked parts. Replace all worn or damaged parts.

See vehicle manufacturer’s applicable publications for other preventive maintenance requirements.

LUBRICATION INTERVALS

For vehicles equipped with the STEERTEK NXT High Capacity system, regular lubrication intervals should be followed to help prevent premature wear to the kingpin bushings and tie rod ends, see Table 7-1 below.

NOTE	The recommended service lubrication interval is a guideline, the vehicle may require increased lubrication interval depending on severity of operation.
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TABLE 7-1

STEERTEK NXT High Capacity — Greasing and Lubrication Specifications					
Component	Greasing Interval	Grease	NLGI Grade	Outside Temperature	
Kingpin Bushings	Maximum of 10,000 miles (16,100 km) or 90 days, whichever comes first.	Multipurpose	2	Refer to the lubricant manufacturer’s specifications for the temperature service limits applicable to your area.	
Tie Rod Ends					
Threaded Pin	Every 3 months	Lithium Base	2		
Front Wheel Bearing	15,000 miles (24,000 km)	SAE 80W-90 GL-5	2		
Wheel Seal • Hub Cap	Comply with Conmet Service Bulletin No. 10009945 (Lubricant Compatibility Listing)				
Drag Link	See Vehicle Manufacturer				

NOTE: Lubrication greases acceptable for use on the STEERTEK NXT High Capacity system will carry a designation of NLGI #2 EP and rated GC-LB or equivalent.

KINGPIN LUBRICATION

1. Place the vehicle on the ground.
2. Prior to greasing the kingpins on the vehicle, the suspension must be in a loaded condition.
3. Clean off all the grease zerks and grease gun tip with a clean shop towel prior to lubrication.
4. Lubricate the kingpins through the grease zerks on the top and bottom of the steering knuckle, see Lubrication Specification Table 7-1.
5. Force the required lubricant into the upper and lower kingpin grease zerks until new lubricant flows out from the upper kingpin connection and steering knuckle and the thrust bearing purge location, see Figures 7-1 and 7-2.

NOTE	Greasing at the lower zerk should purge grease from the thrust bearing shell. The left and right side of the STEERTEK NXT High Capacity system have steel roller thrust bearings.
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