

**Volterra™ ZFL™ Front Axle U-Bolt
Torque Preventive Maintenance
Schedule**

Date: May 04, 2026
Bulletin Name: ZFL-IB-002
Model: Volterra™ ZFL™ Front Loader
Model Years: 2025 – Present

Purpose:

McNeilus Truck and Manufacturing provides updated Volterra ZFL Preventive Maintenance schedule and instructions for an initial (within 500 miles or 6 months of service) retorque of the front axle U-bolts to 500 ft.-lbs. and semi-annually or every 12,000 miles (whichever comes first) retorque of the U-bolts to 500 ft.-lbs. The vehicle's service maintenance manual reflects the same update.

Notice:

- This bulletin should be read and understood in its entirety before performing this update procedure.
- All procedures outlined must be performed by skilled service personnel.

SAFETY NOTICE

Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

SAFETY NOTICE

Use appropriate Personal Protective Equipment (PPE) as required by your company.

Parts, Tools, and Equipment Required:

Customer to supply:

- 500 ft.-lbs. calibrated torque wrench and torque seal marker
- Clean rags

CAUTION

Failure to follow these requirements for torquing and servicing U-bolts and nuts may allow the axle to shift on the spring pack causing misalignment of the axles.

Torque Schedule for Front U-Bolts

Frequency	Comments
Initial 500 miles / 6 months	Within the initial 500 miles or 6 months of service, inspect and retorque U-bolts to 500 ft.-lbs. following the torquing procedure below.
Semi-Annually or 12,000 miles (whichever comes first)	Inspect the U-bolts and retorque to 500 ft.-lbs. following the procedure below.

Before you start:

1. Place the unit on a flat surface. Properly chock wheels and engage the parking brake. Perform your company's Lockout/Tagout procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.

Retorquing procedure:

2. Locate the front axle U-bolts on the vehicle.



Figure 1

3. Clean around the U-bolt to nut joint to remove dirt and grime.
4. Tighten U-bolt nuts evenly in a crisscross pattern (Figure 2).

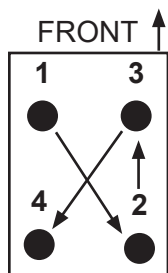
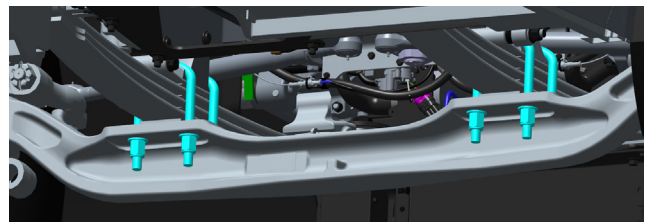


Figure 2

Reference Image: close up image of U-bolt locations



5. Torque to 500 ft.-lbs. using a calibrated torque wrench.
6. Mark each bolt with the torque seal marker indicating it has been completed.
7. The retorquing procedure is complete. Lockout/Tagout can be removed and the vehicle can be returned to service.