

Volterra™ ZSL™ Inspection and Retightening of hardware on grabber carriage brake clutch end cap cover

Date: April 2, 2026
Bulletin Name: ZSL-IB-003
Model: Volterra™ ZSL™
Model Year: 2024-present

Purpose

McNeilus Truck and Manufacturing, Inc. provides the instructions for the inspection and retightening of the brake clutch end cap cover hardware on the Volterra™ ZSL™ grabber carriage.

Please review all aspects of this communication carefully. If you have any questions or concerns about these inspection and retightening actions, contact your McNeilus refuse vehicle service network.

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:

- 5/32" Allen head wrench
- Loctite® 263 (follow package instructions for application)
- Torque wrench (in inch pounds)
- Torque seal marker

Inspect the hardware on the grabber carriage brake clutch end cap cover assembly

1. Place the unit on a flat surface. Properly chock wheels and engage the service brake.
2. Lower the grabber carriage to its lowest position.
3. 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.
4. Locate the brake clutch end cap cover assembly on the grabber carriage (Figure 1 shows reference location).
5. Confirm the presence of all six (6) mounting bolts (Figure 2).
 - If all six mounting bolts are present, continue with this bulletin at the retightening instructions.
 - If any of the six mounting bolts are missing, stop this procedure, order a new brake motor assembly, and down the truck (do not let it continue servicing routes) until the new brake motor is received and installed. Once the new brake motor is received, install it following its installation procedures. The remainder of this bulletin will not apply to the new brake motor install.

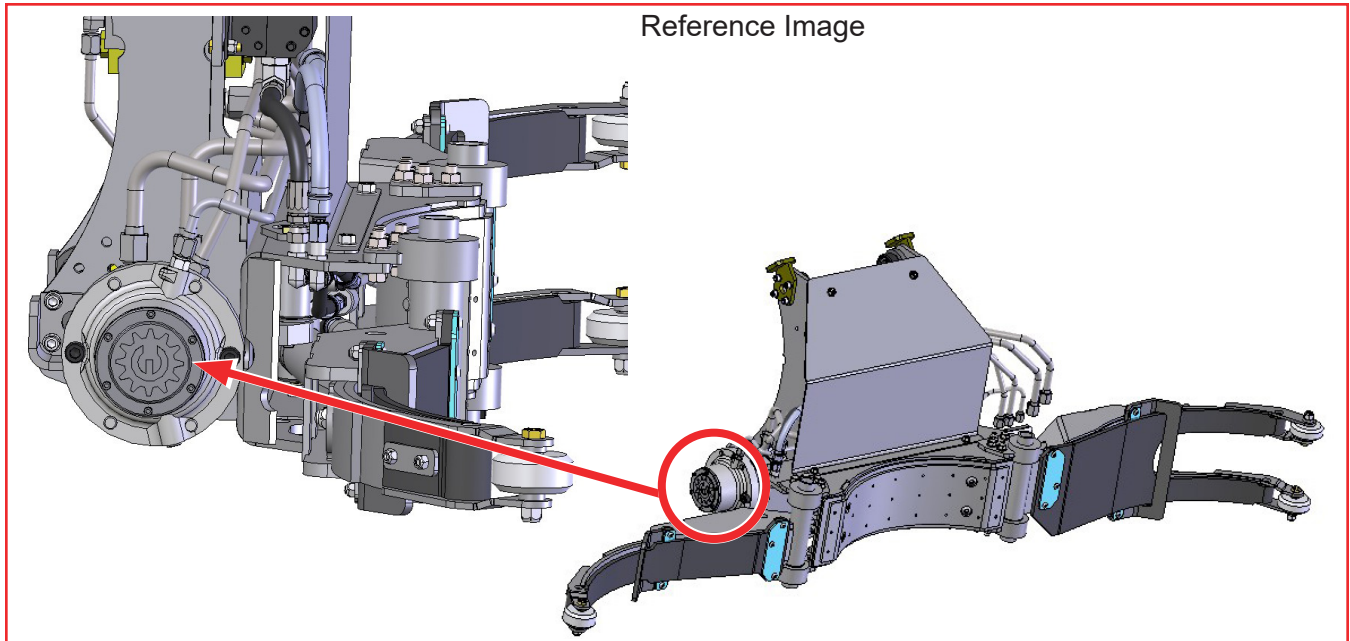


Figure 1

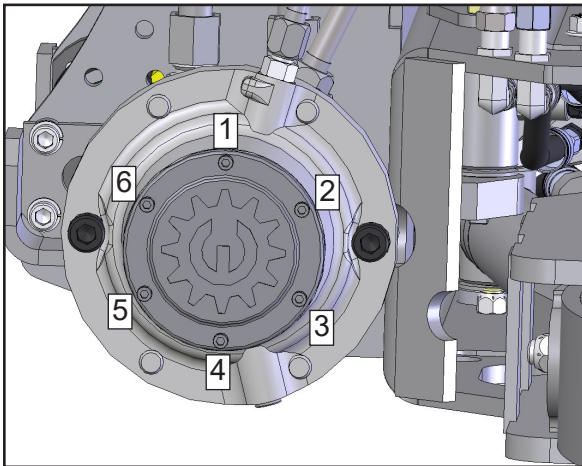


Figure 2

Retighten the grabber carriage brake clutch end cap cover hardware with Loctite® and torque

Follow the illustration below (Figure 3) for hardware tightening sequence.

6. Remove **bolt 1**.
7. Apply Loctite 263® to $\frac{1}{4}$ to $\frac{1}{2}$ of total thread length from end of bolt.
8. Reinstall bolt 1 and tighten the bolt to 55 in.-lbs.
9. Remove **bolt 4**.
10. Apply Loctite 263® to $\frac{1}{4}$ to $\frac{1}{2}$ of total thread length from end of bolt.
11. Reinstall bolt 4 and tighten the bolt to 55 in.-lbs.
12. Remove **bolt 2**.
13. Apply Loctite 263® to $\frac{1}{4}$ to $\frac{1}{2}$ of total thread length from end of bolt.
14. Reinstall bolt 2 and tighten the bolt to 55 in.-lbs.
15. Remove **bolt 5**.
16. Apply Loctite 263® to $\frac{1}{4}$ to $\frac{1}{2}$ of total thread length from end of bolt.

17. Reinstall bolt 5 and tighten the bolt to 55 in.-lbs.
18. Remove **bolt 3**.
19. Apply Loctite 263® to ¼ to ½ of total thread length from end of bolt.
20. Reinstall bolt 3 and tighten the bolt to 55 in.-lbs.
21. Remove **bolt 6**.
22. Apply Loctite 263® to ¼ to ½ of total thread length from end of bolt.
23. Reinstall bolt 6 and tighten the bolt to 55 in.-lbs.
24. Mark each bolt with the torque seal marker indicating it has been completed.

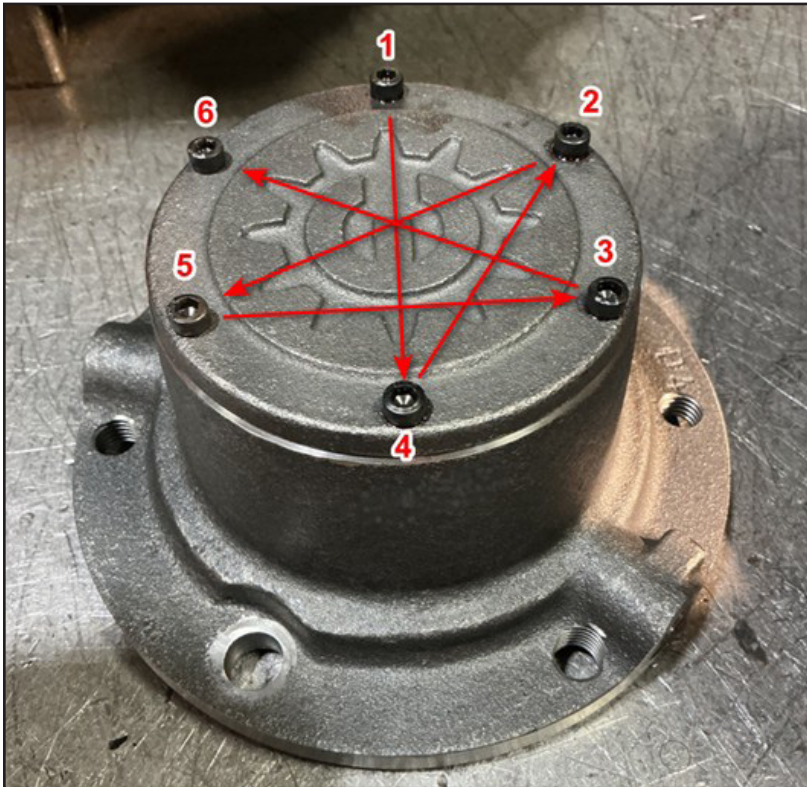


Figure 3

NOTE: Figure 3 shows the brake end cap cover removed from the carriage for illustrative purposes. Some components are removed for clarity.

25. Once all bolts have been addressed, remove tools and equipment from the area.
26. Remove 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.
27. Raise the grabber carriage if necessary to remove the bench or table if it was used as support.
28. Return the vehicle to service.