

Ejector Cylinder Bypass Testing Procedure

Date: November 02, 2021
Bulletin Name: MISC-TSIB-078
Model: Any Refuse model vehicle with full eject

Purpose:

McNeilus Truck and Manufacturing offers these instructions for ejector cylinder bypass testing.

Notice:

- This bulletin should be read and understood in its entirety before performing this procedure.
- All procedures outlined in the bulletin must be performed by skilled service personnel. Refer to the product service manual for descriptions of maintenance procedures.

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.

Equipment Required:

Customer to supply:

- Suitable blocking to ensure the ejector does not move
- Hydraulic hose and tube caps
- Hydraulic oil drain pan

Procedure:

1. Extend the packer so that it is approximately 24" away from the headframe (Figure 1).

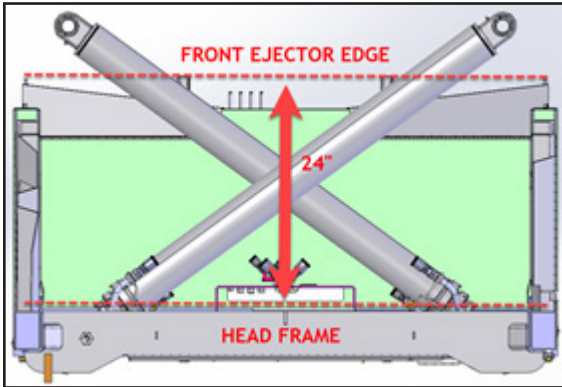


Figure 1

2. Perform your company's Lockout/Tagout (LOTO) procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate. Apply wheel chocks, enable the parking brake.
3. Securely block the ejector on both sides of the hopper to prevent it from returning home (Figure 2).

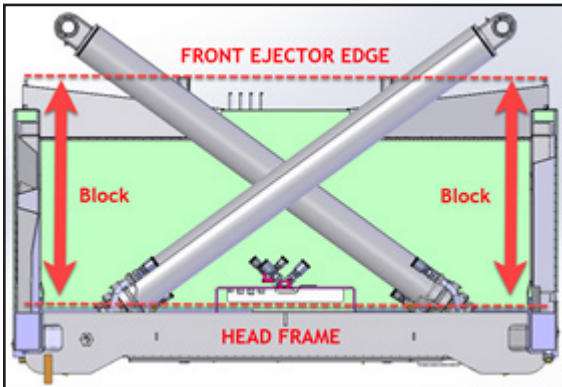


Figure 2

4. Disconnect both lines (Extend and Retract) for the cylinder **NOT** being tested.
5. Cap and plug both the hoses and the tubes.
6. On the cylinder being tested, disconnect the hose from the tube for the -16 (Bore side of the cylinder. This is the Extend side).
7. Install a cap on the tube that the hose was removed from.
8. Place the open end of the -16 hose into a drain pan or reservoir in the middle of the hopper.
 - a. Ensure the drain pan/reservoir is clean and free of oil or other debris.
 - b. Secure the hose so that it cannot move out of the drain pan during the test.
9. Exit the hopper.
10. Remove your company's Lockout/Tagout procedure.

11. Momentarily push the retract for the ejector.
12. Perform your company's Lockout/Tagout (LOTO) procedure.
13. Remove the drain pan from the hopper to inspect the amount of oil in it.
 - a. If there is a significant amount of oil in the drain pan, switch the relief in the current cylinder with the relief in the cylinder not being tested and restart step 11 to determine if the relief has failed (Figure 3).

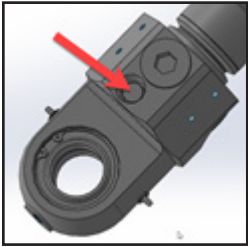


Figure 3

- b. If there is a minimal amount of oil or no noticeable oil that came from the cylinder, continue with step 15.
14. Return the drain pan to the hopper.
15. Remove your company's Lockout/Tagout (LOTO) procedure.
16. Hold retract for one (1) minute.
 - a. Over the course of 1 minute, 10-12 ounces is an acceptable amount of oil for a multi-stage cylinder to bypass.
 - b. If the leakage is more than the approximate 12 ounces in 1 minute, then replace the cylinder.
17. Perform your company's Lockout/Tagout (LOTO) procedure.
18. Remove the drain pan from the hopper to inspect the amount of oil in it. Refer to 16.a and 16.b for analysis of oil amount to determine next steps. If the cylinder needs to be replaced, then follow appropriate steps found in the truck's service manual.
19. Reinstall any components removed or disconnected during the test. Use a torque wrench to torque to correct specifications. Refer to the truck's service manual for torque specifications.
20. Remove the blocks and the oil collection pan from the hopper.
21. Dispose of the collected oil according to appropriate regulations.
22. Testing procedure is complete. Return truck to service.



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