

Bypassing the Fan Cooler System with a Hydraulic Hose on Certain Zero Radius Side Loaders

Date: September 30, 2024

Bulletin Name: ZR-IB-016

Model: Zero Radius Side Loader

Purpose:

It has been determined that certain McNeilus Zero Radius side loader refuse vehicles may have a hydraulic pressure spike that may cause premature failure to the fan cooler. The fan cooler may be permanently bypassed by following the instructions in this informational bulletin to bypass the fan cooler with a hydraulic hose allowing the refuse body functions to remain functional.

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.

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.

Tools and Equipment Required (Customer to provide or purchase from McNeilus):

- (1) #16 hydraulic hose, 40" in length (measured from end to end with both fittings and the union fitting included) with #16 JIC male and #20 JIC female fittings (make or purchase the hydraulic hose before starting this bulletin) (McNeilus Part Number 1560313)
- (1) 20-20 union fitting (McNeilus Part Number 1131570)
- 3/4", 1-1/2", 2" wrenches and 3/4" socket wrench
- Hydraulic oil collection container
- Abrasion wrap
- Tie wraps
- Torque wrench
- (1) Deutsch 2-way power connector plug (McNeilus Part Number 1226812)
- (2) 18-12 gauge white cavity plug (McNeilus Part Number 1104121)

Procedure:

1. Obtain or make a hydraulic hose that is a #16, 40" in length (measured from end to end with both fittings and the union fitting included), with one #16 male JIC fitting and one #20 JIC female fitting.
2. Attach the 20-20 union fitting to the #20 JIC female fitting.
3. Place unit on a flat surface, block truck tires, and observe all conditions of the Safety Notice posted in the Notice section of this bulletin.
4. Locate the fan cooler at the front of the body.



Figure 1

5. Place a hydraulic oil collection container under the hydraulic hoses leading to the fan cooler.
6. Disconnect the electrical connection to the fan cooler.
7. Install the (2) cavity plugs and the Deutsch connector plug into the electrical harness.
8. Tie wrap the electrical harness out of the way if necessary.
9. Disconnect the two hydraulic tubes at the fittings leading into the fan cooler using a 1-1/2" wrench and a 2" wrench.
10. Use a 3/4" wrench and 3/4" socket wrench to remove the (4) bolts and (4) nuts securing the fan cooler to the head frame of the truck. Retain the hardware for reinstall when the new fan cooler is installed.
11. Remove the fan cooler from the head frame. Discard the fan cooler.
12. Connect the fittings of the new bypass hydraulic hose to the hydraulic tubes on the head frame starting with the #20 fitting.
13. Connect the #16 fitting of the new bypass hydraulic hose to the hydraulic tubes on the head frame.



Figure 2

14. Use a torque wrench to torque the #16 fitting to 113 ft-lbs and the #20 fitting to 133 ft-lbs.
15. Install an abrasion wrap and tie wraps around the hydraulic hose at the place where the hose touches the head frame.

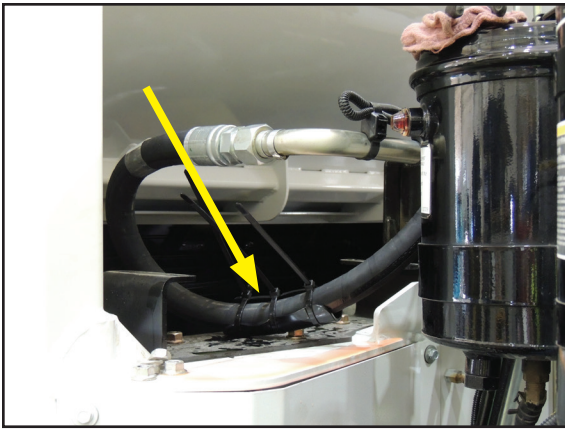


Figure 3

16. Discard the collected oil according to all applicable regulations and laws.
17. The procedure is complete.
18. Remove your company's Lockout/Tagout per your company's procedure. If your company does not have a Lockout/Tagout procedure, follow OSHA 1910.147 and 1910.146 Confined Space as appropriate.
19. Return refuse vehicle to service.



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