



**S-Series™**  
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# Technical Service Information Bulletin

## 2.0 Steering Relief

**Date:** December 17, 2020

**Bulletin Name:** FDM-TSIB-018

**Model:** Oshkosh S-Series

**Units Affected:** MY 2020 and newer Front Discharge Mixers

### Purpose:

This bulletin provides instruction to update the hydraulic steering system by adding an external pressure relief valve. Field reports of failed steering pump seals led to testing that determined internal recirculation of hot oil was the cause of the seal failures.

### 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.

### WARNING

Hydraulic systems are hot. **DO NOT TOUCH!** Serious personal injury may result from hot oil. When you have completed working on the hydraulic systems, thoroughly clean any spilled oil from the equipment. Do not spill any hydraulic fluids on the ground. Clean any hydraulic fluids from your skin as soon as you have completed your maintenance and repairs. Dispose of used oil and filters as required by law.

### WARNING

Never remove hydraulic pipes/tubing, fittings, and adapters until all pressure has been relieved from the hydraulic system.

### WARNING

All hydraulic pressures must be relieved from the hydraulic system prior to removing any components from the system to prevent oil from spraying or functions and systems from failing.

## **Tools and Equipment Required:**

Customer to supply:

- Torque wrench (foot pounds)
- Hand Tools

## **Parts Required:**

| <b>Item</b> | <b>Part Number</b> | <b>Description</b>             | <b>Qty.</b> |
|-------------|--------------------|--------------------------------|-------------|
| 1           | A000B931           | FTG,ST 8JIC-8ORG FM ST SWVL    | 1           |
| 2           | A000F499           | FTG,T 8JIC-8ORG-8JIC MMM ST    | 1           |
| 3           | A000B961           | FTG,45 8JIC-8JIC MF ST SWVL    | 1           |
| 4           | A000U233           | MANF ASSY,HYD,HYD,STEERING     | 1           |
| 5           | 1144772            | FTG,ST 8JIC-8ORG MM ST         | 1           |
| 6           | 1260477            | FTG,T 10JIC-10JIC-10JIC MFM ST | 1           |
| 7           | A000U498           | HOSE ASSY #8 CR 11.0 3125      | 1           |
| 8           | A000E552           | SEALANT,TORQUE INSPECTION,BLUE | A/R         |

## **Procedure:**

### ***Lockout/Tagout***

1. Place unit on a flat surface, block truck tires, and 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.
2. The vehicle's BATTERY DISCONNECT switch is located on the left-hand side of the battery box. Use the battery disconnect switch when performing any maintenance so the vehicle cannot accidentally be started.
  - a. Turn the battery disconnect switch (Figure A, Item 1) counterclockwise so the hole on the switch aligns with the hole in the bracket (Figure A, Item 2).
  - b. Install the safety lockout device ring (Figure B, Item 1) through the holes on the battery disconnect switch and the bracket.
  - c. Install a padlock (Figure B, Item 2) onto the safety lockout device ring, lock it, and put the key in your pocket. If more than one person is working on the vehicle, each person must install his or her own padlock.



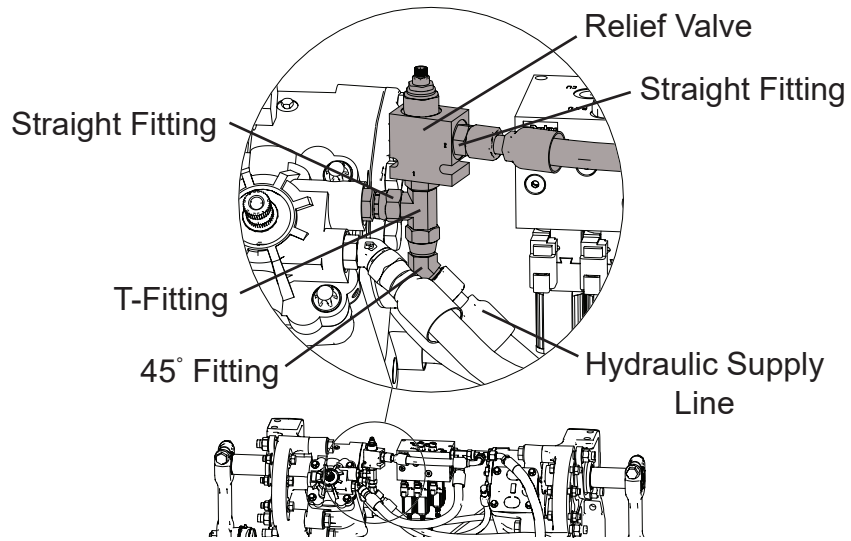


Figure 2

12. Disconnect the main hydraulic return line from the existing t-fitting on the side of the hydraulic manifold. See Figure 3.

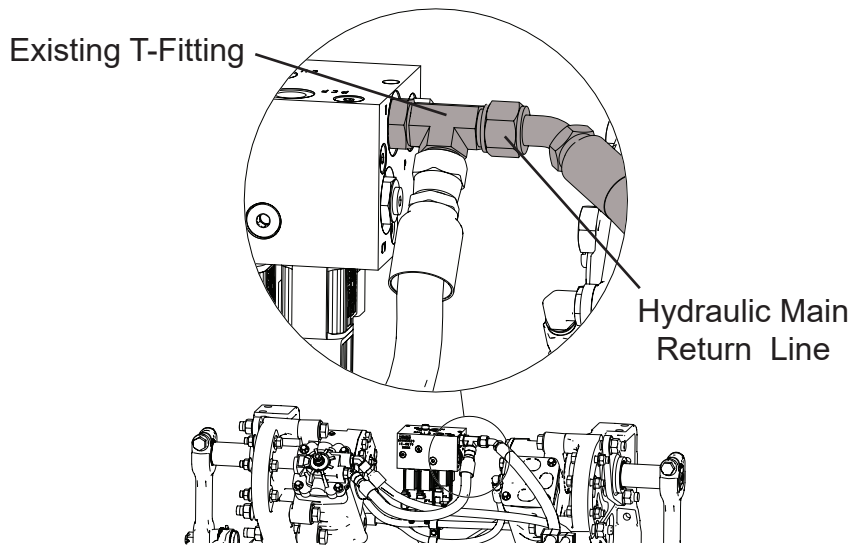


Figure 3

13. Install T-fitting (A000D112) to existing T-fitting. Orient T-fitting as shown in Figure 4.
14. Connect hydraulic main return line to T-fitting installed in Step 13.

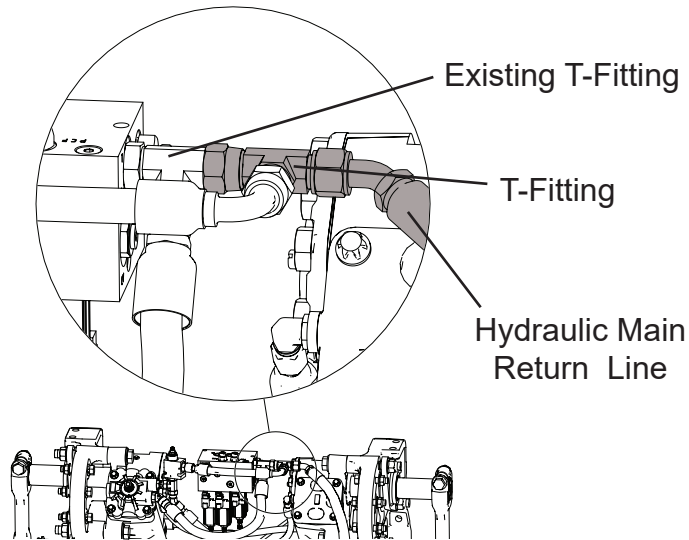


Figure 4

15. Connect the straight end of return line (A000U498) to relief valve straight fitting. See Figure 5.
16. Connect the 90° end of return line to T-fitting installed in Step 13. See Figure 5.

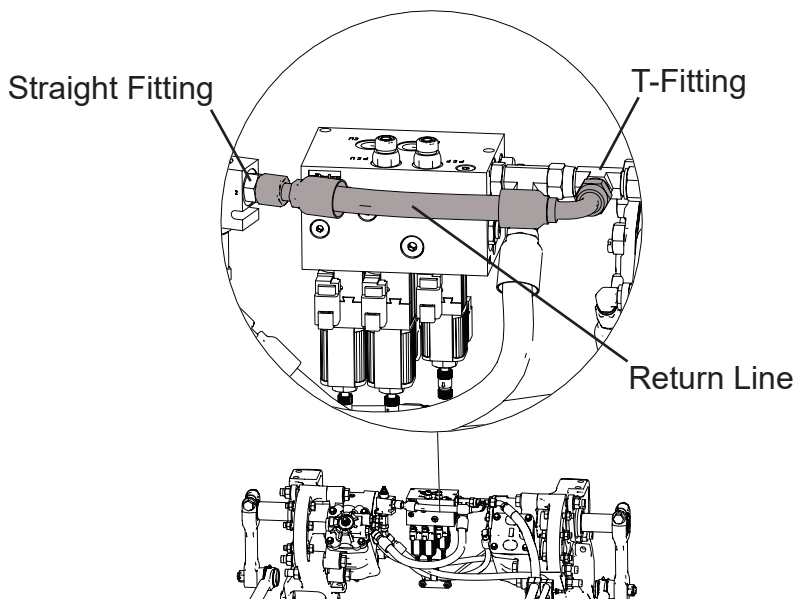


Figure 5

17. Make sure system components are aligned correctly and nothing is contacting the return line.
18. Final torque all components. See Figure 6.

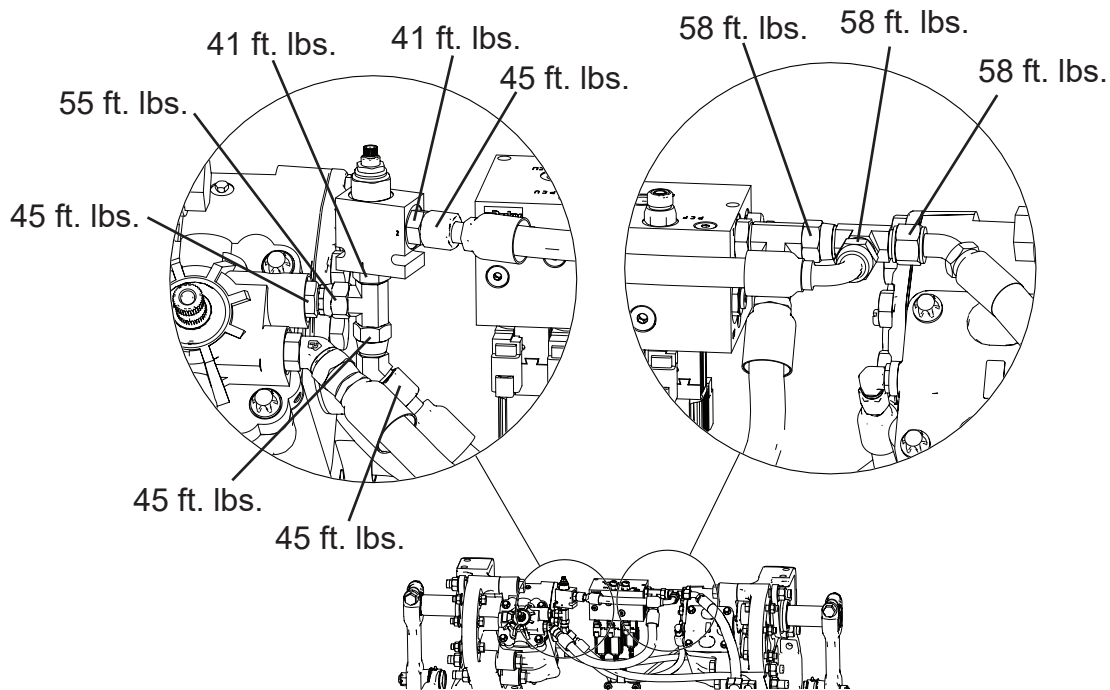


Figure 6

19. Make sure the hydraulic reservoir is filled to the MAX mark.
20. Reference bulletin FDM-TSIB-013 for bleeding air from the steering system.
21. Remove lockout/tagout.

### Continuous Improvement:

The change included in this document is part of the McNeilus Continuous Improvement Process.

*McNeilus's quality policy is providing customer satisfaction through innovative products, dedicated service, and a constant focus on continuous improvement.*



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