



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

## Battery Box Power Distribution Fuse Installation

**Date:** December 1, 2020

**Bulletin Name:** FDM-TSIB-016

**Model:** Oshkosh S-Series

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

### Purpose:

This bulletin provides instruction to correct an installation error that may damage the battery box power distribution fuses, and updates the fuse identification label.

### 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.

## **Tools and Equipment Required:**

Customer to supply:

- Torque wrench (inch pounds)
- Hand Tools

## **Parts Required:**

Item	Part Number	Description	Qty.
1	1379HX	WASHER, PLAIN	6
2	A000R669	LABEL, INFO, FUSE DIAGRAM, PC	1
3	A000H120	FUSE, MIDI, TAB, 100A	1
4	A000H122	FUSE, MIDI, TAB, 150A	1
5	A000H116	FUSE, MIDI, TAB, 50A	1

## **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.

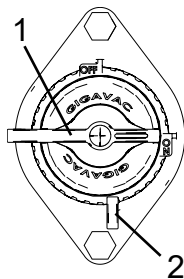


Figure A

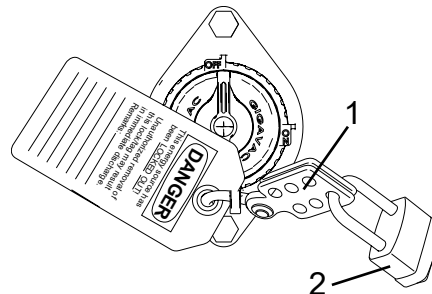


Figure B

## Battery Box Power Distribution Update

3. Locate the three power distribution fuses in the battery box, see Figure 1.

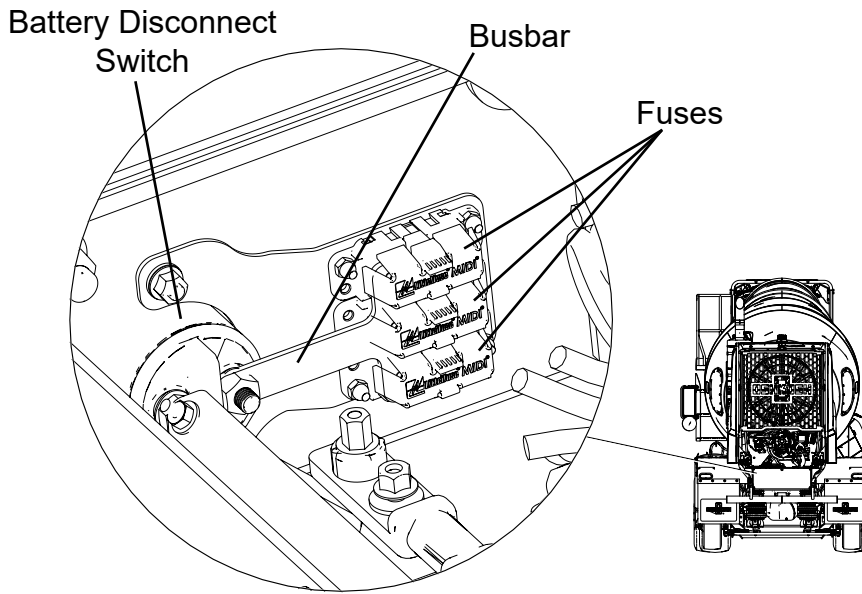


Figure 1 - Battery Box Fuses

4. Remove the covers from the three fuses, see Figure 2.

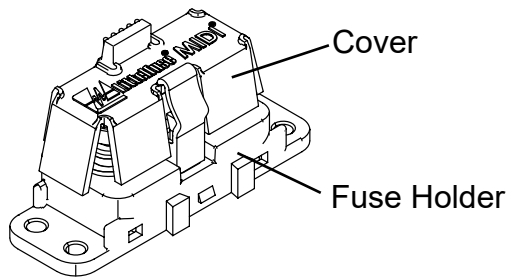
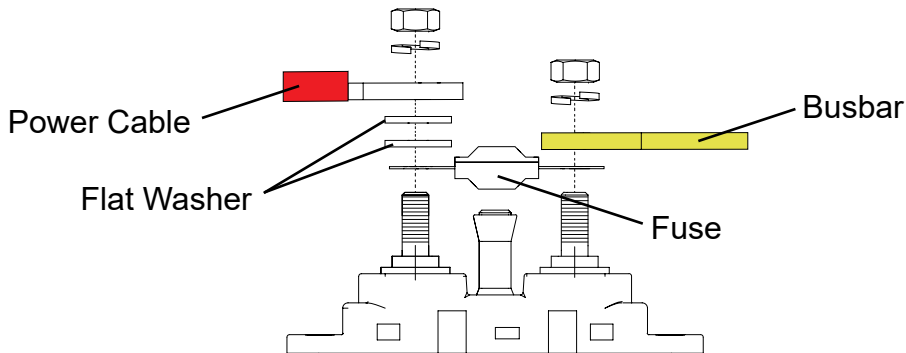


Figure 2 - Fuse Holder

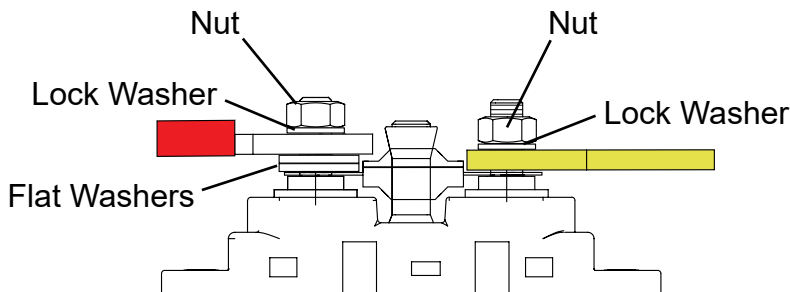
5. Mark the three power cables connected to the fuse holders as top, middle and bottom so the cables are reassembled in their correct locations.
6. Loosen and remove the three fuse holder nuts and lock washers securing the power cables to the fuse holder studs.
7. Remove the three power cables from the fuse holder studs.
8. Loosen and remove the nut and lock washer securing the busbar to the battery disconnect switch.
9. Loosen and remove the three nuts and lock washers securing the busbar and fuses to the battery disconnect switch side of the fuse holders.
10. Remove the busbar and fuses from the three fuse holders.
11. Clean any RTV off the fuse tabs and all contact surfaces.
12. Inspect the fuse body and fuse terminals. Replace any fuse that has a damaged body, damaged terminals, bent or broken terminals.
13. Reinstall the 100A fuse on the top fuse holder studs.

14. Reinstall the 150A fuse on the middle fuse holder studs.
15. Reinstall the 50A fuse on the bottom fuse holder studs.
16. Reinstall the busbar onto the fuse holder studs and battery disconnect switch stud, see Figure 3.
17. Reinstall the nut and lock washer on the battery disconnect switch to secure the busbar. Final tighten nut to 100-120 in. lbs.
18. Reinstall the three lock washers and nuts on the fuse holder studs on top of the busbar. Final tighten nuts to 36 in. lbs., see Figure 3.
19. Install two flat washers (P/N 1379HX) on the fuse holder studs on top of the fuse tabs on the power cable side of the fuses, see Figure 3.



*Figure 3 - Fuse Holder*

20. Reinstall the power cables in the locations marked in Step 5 on the fuse holder studs, see Figure 4.
21. Reinstall the lock washers and nuts on the fuse holder studs, see Figure 4. Final tighten nuts to 36 in. lbs.



*Figure 4 - Fuse Holder*

22. Apply RTV sealant to electrical connections as needed.
23. Reinstall the fuse holder covers.

24. Install new fuse information label (P/N A000R669) in location shown in Figure 5.

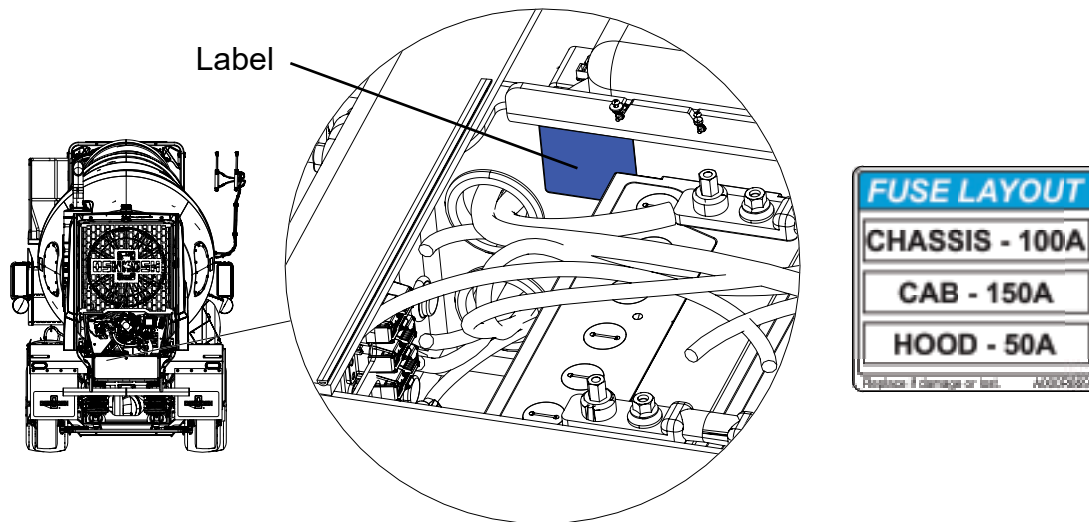


Figure 5 - Battery Box Fuse Identification Label Location

25. 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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