

2.0 Front Axle Hub Seal Installation

Date: December 2, 2021
Bulletin Name: FDM-TSIB-034
Model: Oshkosh S-Series
Units Affected: MY 2021/2022

Purpose:

This bulletin provides revised instruction for replacing the front axle hub seal.

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:

- Hand tools
- Seal driver
- Sealant (Permatex® 64040 or Loctite® 680)
- Acetone or brake cleaner

Part Required:

Item	Part Number	Description	Qty.
1	1516140	SEAL, HUB	1

Procedure:

Lockout/Tagout

1. Place unit on a flat surface, engage parking brake, chock 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.

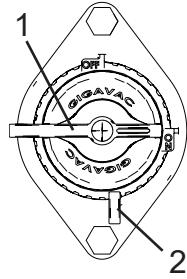


Figure A

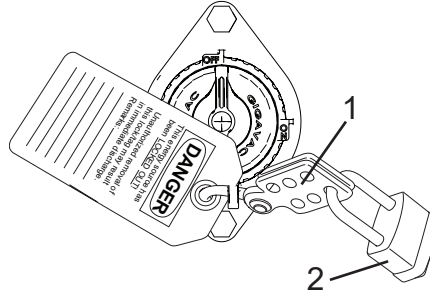


Figure B

Hub Seal Installation

See S-Series service manual, chassis section 7.0 for axle hub removal and installation.

3. Remove existing hub seal from hub using a pry bar, see Figure 1. Hub seal will not be reused.



Figure 1

4. Scrape and wipe hub seal bore clean, see Figure 2.

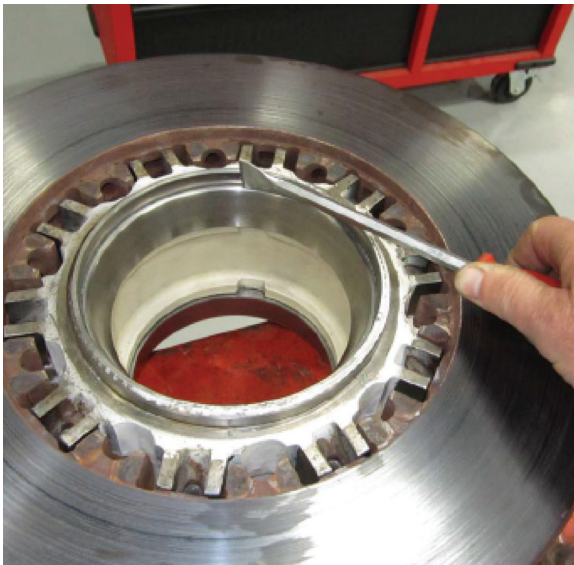


Figure 2

5. Use acetone or brake cleaner to remove red coating from new hub seal (1516140) outer edge, see Figure 3.



Figure 3

6. Apply bead of sealant (Loctite® 680 or Permatex® 64040) to lower edge of hub seal, see Figure 4. Applying sealant to lower edge allows sealant to smear across entire seal bare metal surface during hub seal installation.



Figure 4

⚠ CAUTION

Keep sealant out of wheel bearings. Wipe off any excess sealant from hub seal and wheel bearings after hub seal installation. Failure to comply would result in component damage.

7. Install seal using seal driver, or tap around perimeter of seal with a hammer. Make sure seal is evenly installed as it slides into position and when fully seated.

Hub seal final installed position will not have hub seal lip flush with hub edge, hub seal lip will be slightly above hub edge. See Figure 5. Wipe off any excess sealant around hub or near wheel bearing.

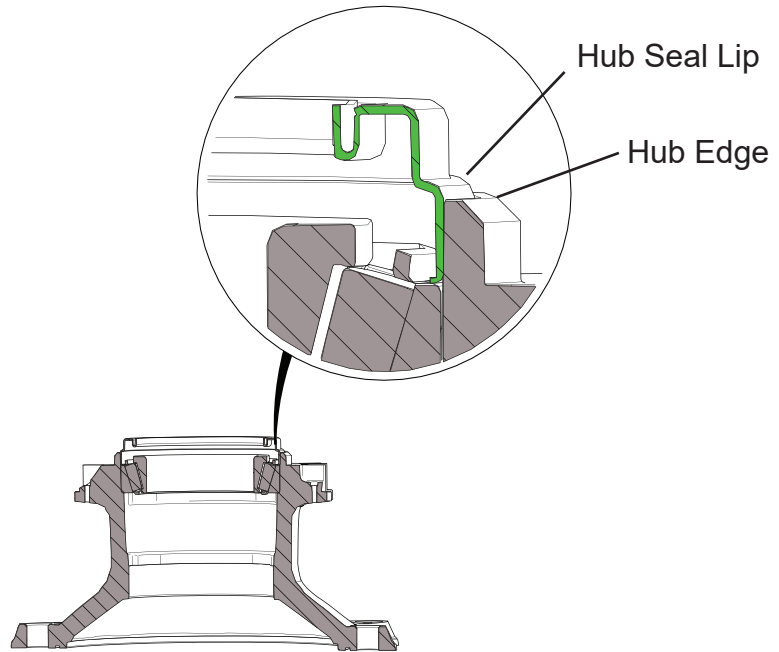


Figure 5

8. Allow hub seal sealant to cure for 1-6 hours before reinstalling hub. An extended cure time allows hub seal sealant to achieve a 75-100% cure strength.

9. Remove lockout/tagout and tire chocks.

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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