

2.0 Oil Fill and Dipstick

Date: October 5, 2021
Bulletin Name: FDM-SVC-013
Model: Oshkosh S-Series
Units Affected: 2.0 Front Discharge Mixers
 with 2021 and earlier engines

Purpose:

This bulletin provides instruction for removing the original oil fill and dipstick and installing a new engine oil fill and dipstick. A new oil fill and dipstick was implemented after receiving field reports of leaking dipsticks.

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
- Torque Wrenches (foot pounds and inch pounds)

Parts Required:

Item	Part Number	Description	Qty.
1	A000W576	FTG,BEAD M PL SPL,X12,SVC	1
2	A000V804	HOSE,OIL FILL,1.50 IDX1.94 OD	1
3	A000V805	CAP,OIL FILL,LOCKING 1.50	1
4	A000F580	CLAMP,HOSE-SPR 53.0-43.5 MB	2
5	A000W401	FTG,ENGINE DIPSTICK,X12	1
6	A000W400	DIPSTICK,ENGINE OIL,X12	1
7	A000E540	SEALANT,LOCTITE 567	A/R
8	A000R710	WASH,FLT .44X.92X.07 MB	2

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.

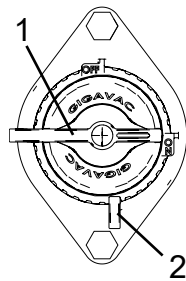


Figure A

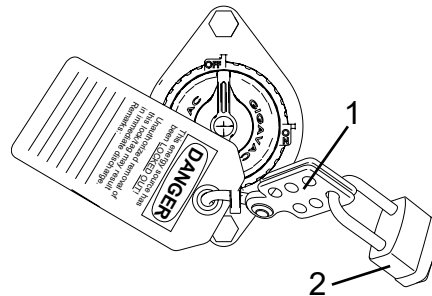


Figure B

Oil Fill and Dipstick Installation

3. Drain engine oil per engine manufacturers manual.
4. Locate dipstick assembly on right side of vehicle engine, see Figure 1.
5. Loosen and remove retaining screw securing dipstick to engine block, see Figure 1. Save retaining screw.
6. Loosen and remove two M10 screws securing dipstick bracket to alternator, see Figure 1.
7. Remove dipstick assembly from engine. Dipstick assembly will not be reused.

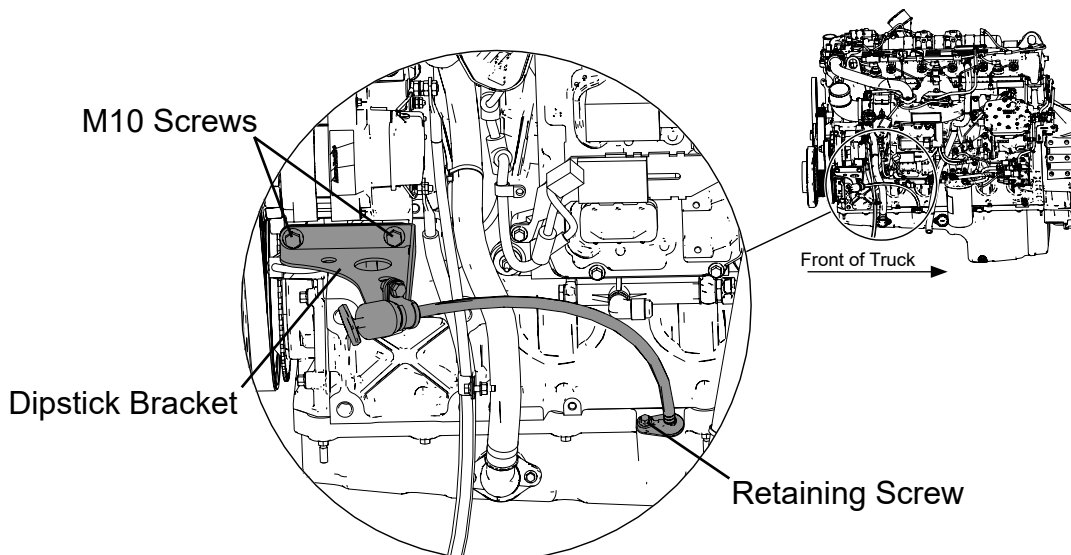


Figure 1

8. Install flat washers (A000R710) on two M10 screws removed in Step 6 and reinstall screws with washers in alternator. Final tighten M10 screws to 25 ft. lbs.
9. Locate oil fill assembly on right side of vehicle engine, see Figure 2.
10. Loosen and remove two retaining screws securing oil fill assembly to oil pan, see Figure 2. Save retaining screws.
11. Remove two oil fill tube retaining clamps from engine alternator bracket, see Figure 2.
12. Remove oil fill assembly from engine. Oil fill assembly will not be reused.

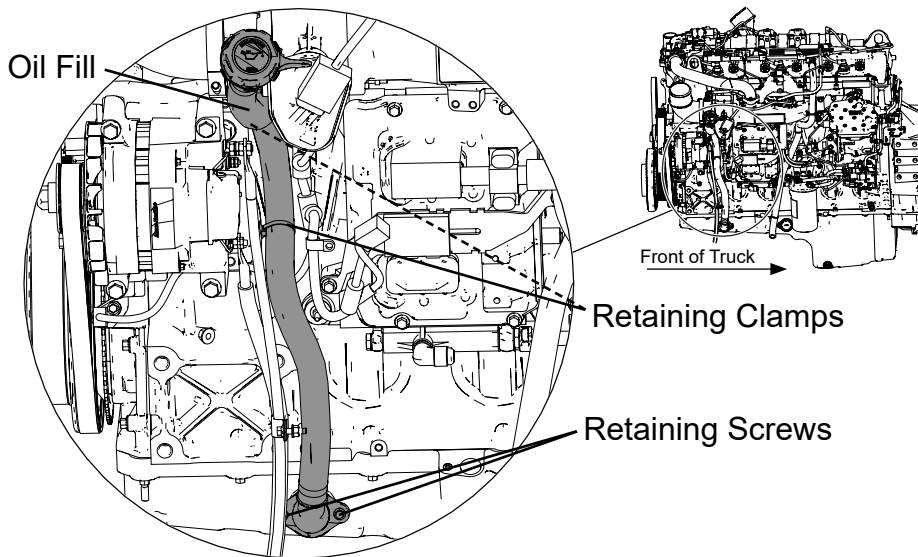


Figure 2

13. Loosen and remove dipstick O-ring retaining screw on left side of vehicle engine, see Figure 3. Save retaining screw.
14. Remove dipstick O-ring plug, see Figure 3. Save O-ring plug.
15. Loosen and remove oil fill O-ring retaining screws on left side of vehicle engine, see Figure 3. Save retaining screws.
16. Remove O-ring plug from engine oil pan, see Figure 3. Save O-ring plug.

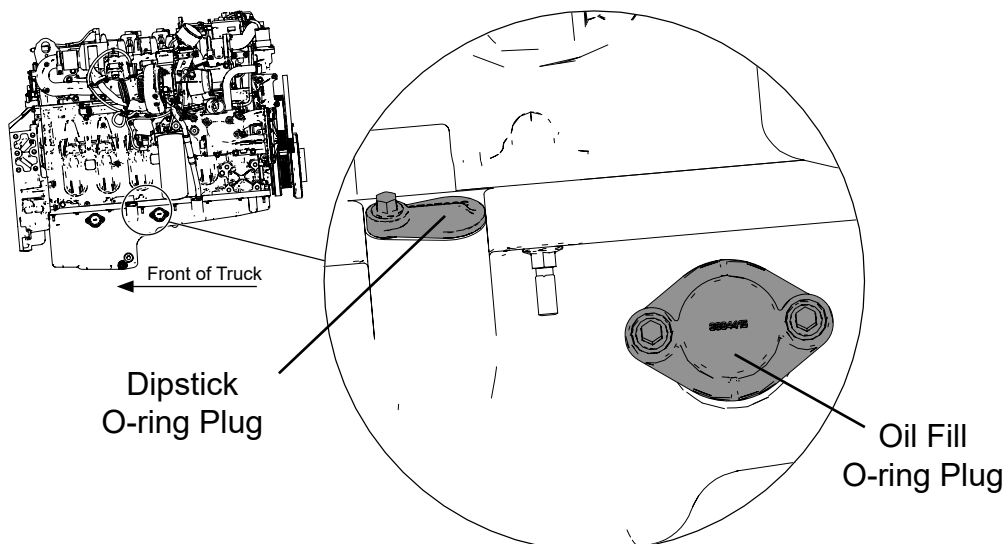


Figure 3

17. Install dipstick O-ring plug removed in Steps 13 and 14 in dipstick port where dipstick assembly was removed on right side of vehicle engine.
18. Install retaining screw removed in Step 5 to secure dipstick O-ring plug. Final tighten retaining screw to 71 in. lbs.
19. Install oil fill O-ring plug removed in Steps 15 and 16 in oil pan where oil fill assembly was removed on right side of vehicle engine.
20. Install retaining screws removed in Step 10 to secure oil pan O-ring. Final tighten retaining screws to 71 in. lbs.
21. Install dipstick fitting (A000W401) in engine block, see Figure 4.
22. Install retaining screw removed in Step 13 to secure dipstick fitting to oil pan, see Figure 4. Final tighten retaining screw to 71 in. lbs.
23. Apply Loctite® 567 (A000E540) to threads of dipstick fitting (A000W401).
24. Thread dipstick (A000W400) onto engine block dipstick fitting (A000W401), see Figure 4. Final tighten dipstick to 42 ft. lbs.

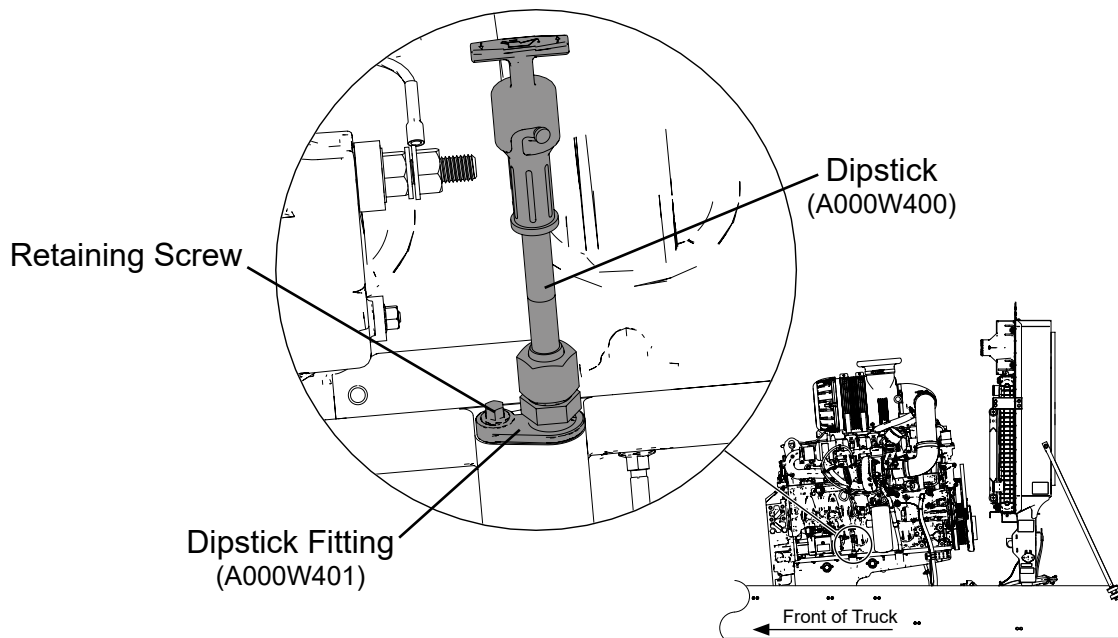


Figure 4

25. Install oil fill fitting (A000W576) in oil pan opening, see Figure 5.
26. Install retaining screws removed in Step 15 to secure oil fill fitting (A000W576), see Figure 5. Final tighten retaining screws to 71 in. lbs.
27. Compress and slide hose clamps (A000F580) on ends of oil fill hose (A000V804), see Figure 5.
28. Slide one end of oil fill hose (A000V804) on oil fill fitting (A000W576), see Figure 5.

NOTE

Orient ends of hose clamps away from cooling lines next to oil fill.

29. Compress lower hose clamp and slide clamp down to end of hose over oil fill fitting, see Figure 5.
30. Install oil fill (A000V805) in open end of oil fill hose (A000V804), see Figure 5.
31. Compress upper hose clamp and slide clamp up to end of hose over oil fill (A000V805), see Figure 5.

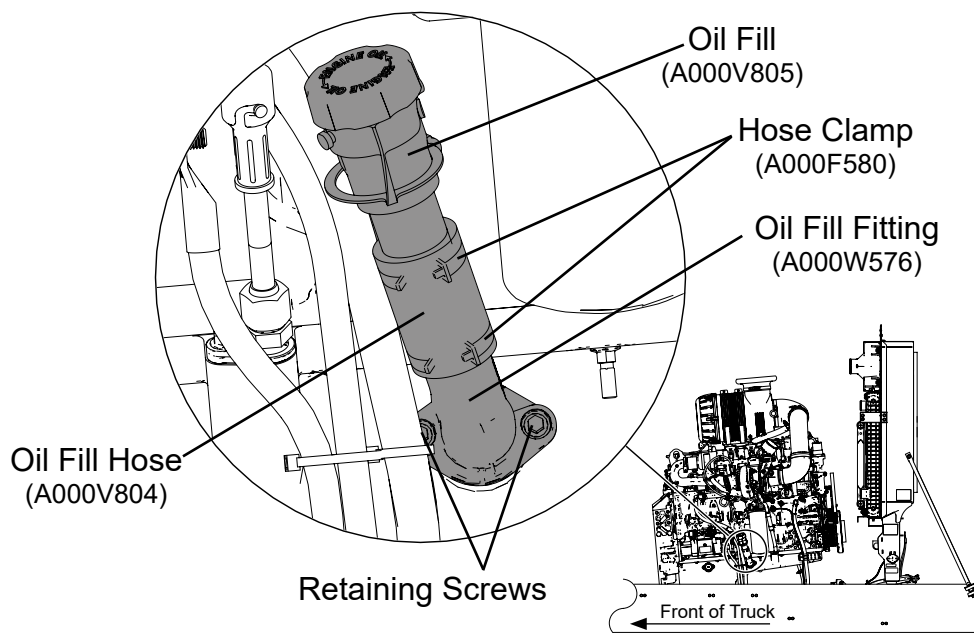


Figure 5

32. Refill engine with engine oil per engine manufacturers manual.
33. 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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