

M1 Series Windrower

FUEL TANK DRAIN UPDATE KIT (MD #291817)

INSTALLATION INSTRUCTIONS

The Fuel Tank Drain Update kit (MD #291817) can be used to update the fuel tank drain fitting on M1 Series Windrowers from model years 2016 and 2017. The kit does not apply to model years 2018 and forward.

This document explains how to install the kit. A list of parts included in the kit is provided.

Installing this kit will require the use of a thread sealant that is compatible with both diesel fuel and the NBR rubber O-ring. The recommended sealant is Permatex Aviation Form-A-Gasket #3 available at most auto parts stores or an equivalent. A small length of strong string or mechanics wire will also be needed.

NOTE: Keep your MacDon publications up-to-date. The most current version of this instruction can be downloaded from our Dealer-only site (<https://portal.macdon.com>) (login required).

NOTE: This document is available in English only.

Conventions

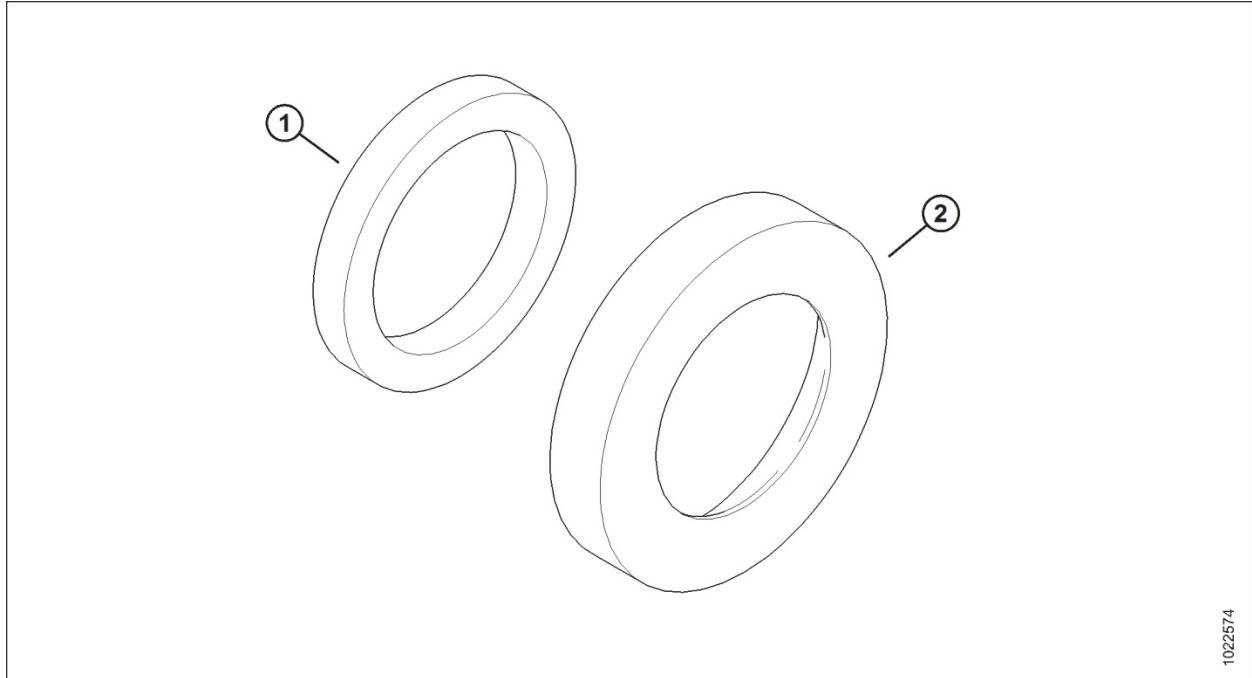
The following conventions are used in this document:

- Right and left are determined from the operator's position, facing forward with the windrower in cab-forward position.
- Unless otherwise noted, use the standard torque values provided in the windrower operator's manual and technical manual.

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Parts List

This kit includes the following parts:



Ref	Part Number	Description	Quantity
1	291819	O-RING	1
2	291818	WASHER – CONICAL, BRASS	1

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To install the Fuel Tank Drain kit, follow these steps:



DANGER

To avoid bodily injury or death from unexpected startup of the machine, always stop the engine and remove the key from the ignition before leaving the operator's seat for any reason.

NOTE: The kit can be installed with fuel in the tank, but spill containment should be available in case fitting is accidentally pushed into the tank. A small amount of fuel may leak out during installation, so a drip pan should put in place.

1. Turn off engine and remove key.
2. Locate the fuel tank on the right side of the windrower frame (it is part of the right platform). The drain fitting is behind the windrower stairs.
3. Clean off the drain fitting (A) and the surrounding area.

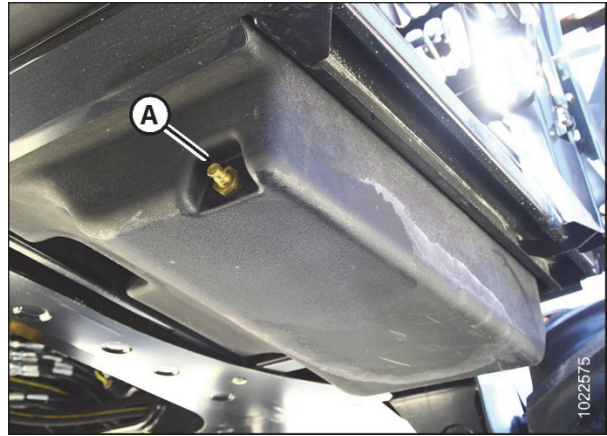


Figure 1: Bottom View of Fuel Tank

4. Cut a length of string or mechanics wire (A) about 0.9 m (3 ft.) in length.
5. Fold the string/wire (A) in half to form a loop, then feed the ends of the string back through the loop at the fold end. Place the loop onto the drain plug (B) and pull tight as shown at right.

NOTE: Do **NOT** tie a large knot, as the knot will make it difficult to slide components over the string/wire.

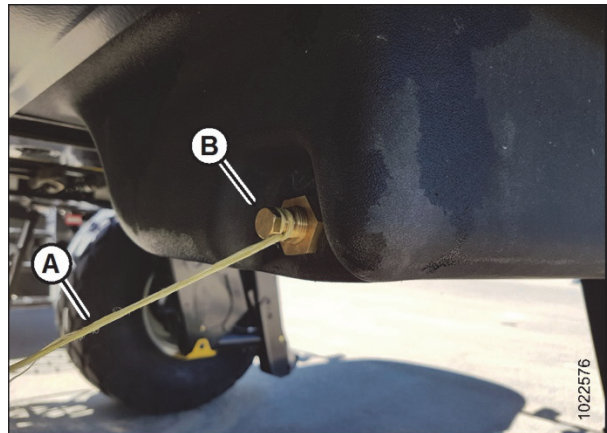


Figure 2: Attaching String

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6. While keeping tension on the string/wire, loosen brass bulkhead nut (A), and slide it down the string/wire. Remove from string/wire, but retain for reassembly.

NOTE: The nut has left-hand (reverse) threads.

7. Clean the fitting threads.



Figure 3: Loosening Nut

8. Slide the O-ring (A) (MD #291819), the brass conical washer (B) (MD #291818), and then the retained brass nut (C) onto the string/wire. Ensure the conical side of the brass washer is facing the rubber washer on the drain fitting (D).

NOTE: The O-ring (A) and brass conical washer (B) are provided in the kit.

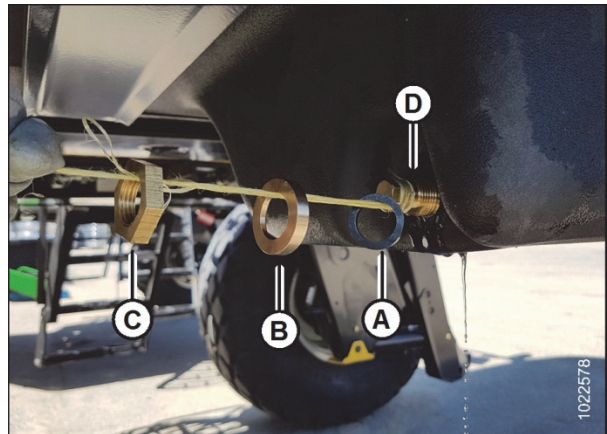


Figure 4: Hardware on String

9. Slide O-ring (A) onto the fitting until seated against tank.
10. Apply sealant to the threads of the fitting.



Figure 5: O-Ring and Sealant on Fitting

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11. Slide brass conical washer (A) onto fitting.

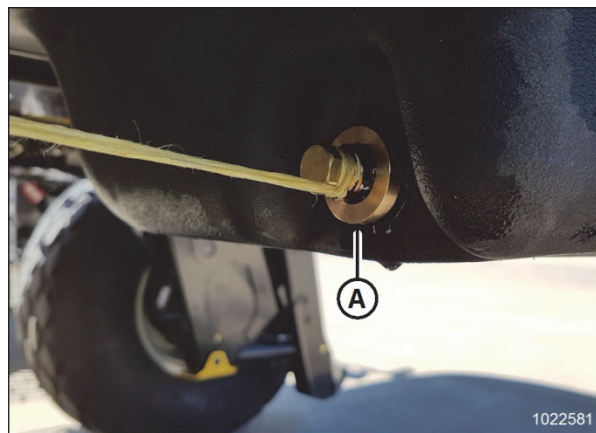


Figure 6: Brass Conical Washer Installed on Fitting

12. Thread brass nut (A) back onto fitting.
13. Remove string/wire (B).
14. Torque brass nut (A) to 17 Nm (150 lbf·in.).

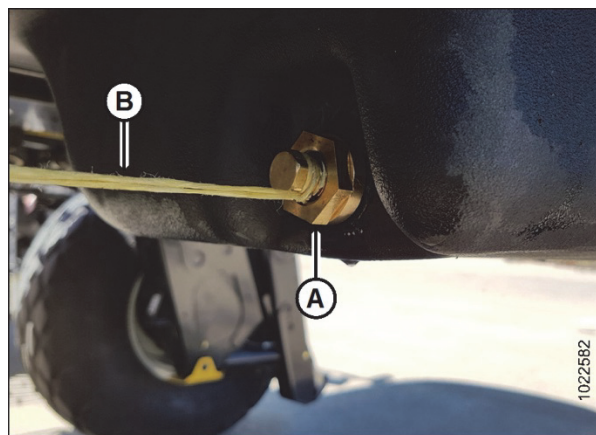


Figure 7: Brass Nut Reinstalled on Fitting