
Instructions

for replacement of the auger, bearings and water seal

Applies to: MDT3, MDT4 and other prior models including MFE400. Units build prior to May 2007 have a brass cap and pull ring as shown.

Kit contents:

- Top bearing and breaker assembly, pre greased and assembled with auger.
- Water Seal
- Bottom Bearing
- Sealant

Note color of plastic cap. Units with **gray** cap have been updated and may not need this kit.

MDT Removal

1. Disconnect electrical power.
2. Shut off the water supply.
3. Remove the top panel.
4. Remove the side panels.
5. Drain the reservoir and evaporator.
6. Prior models: Remove foam cap from the top of the evaporator.

Later models: Unscrew the plastic cap.

Note: Loosen the top bolt now to make it easier to separate the auger from bearing after removal.

7. Remove the two permagum plugs from the side of the evaporator.

8. Remove the two Phillips head screws from the side of the evaporator.



Prior Model



May 2007 - 2009 Model



Loosen Bolt



Remove Screws

9. Prior models: Pull up on the ring to lift the auger out of the evaporator.

Later models: Install a 1.5 inch pipe Tee onto the top of the breaker to use to lift the auger out of the evaporator. Insert breaker bar or similar to use as a handle when pulling up on the auger. See photo



Stuck Auger Removal

Occasionally the auger will be very difficult to remove.

1. Remove snap ring holding bearing cover to breaker (prior model)
2. Remove bearing cover (prior model).
3. All models: Unscrew bolt holding bearing to auger.
4. All models: Thread in a threaded rod and weight or slide-hammer puller into the auger.
5. All models: Use the threaded rod & weight or slide hammer puller to remove the auger.



Note: A 10 lb slide hammer will provide very good results.

Or

1. Remove three cap screws holding evaporator to the adapter stand.
2. Lift evaporator up slightly and tip the bottom out to expose the splined end of the auger.
3. Use a plastic mallet or dead-blow hammer to tap the bottom of the auger and force the auger up.

If the auger is “frozen” to the bottom bearing, do not force the bottom bearing thru the evaporator.

10. Remove reservoir from unit.

11. Remove 3 bolts holding gear reducer to chassis.

Note: This allows the gear reducer and evaporator assembly to move for better access to the bolts holding them together.

12. Remove 3 bolts holding adapter stand to gear reducer, lift evaporator off the gear reducer.

13. Remove 3 bolts holding adapter stand to evaporator.

14. Knock bottom bearing and water seal out of bottom of evaporator.

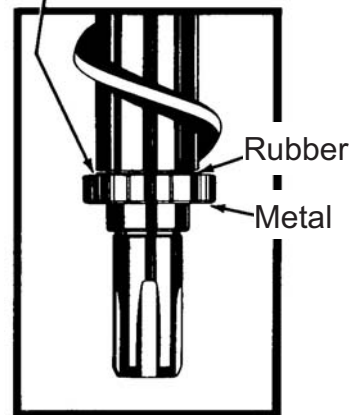


Assembly

1. Place a bead of sealant onto the shoulder of the auger where the rotating half of the water seal will go.

2. Lubricate rubber on water seal, then force onto auger, rubber side up, against the shoulder and sealant added in prior step. Be sure seal is on all the way and is on straight. See illustration.

Sealant Here



Water Seal & Sealant

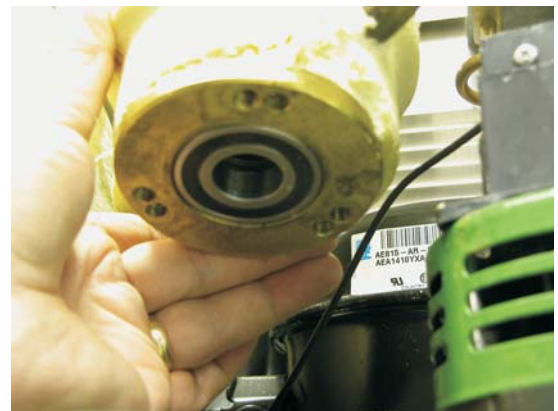
3. Lubricate stationary part of water seal and insert it into the bottom of the evaporator. Force it in until about a 1/2" space is available below it.



4. Insert the new bottom bearing into the evaporator below the water seal. Push it up against the water seal and force it in until it is at least flush with the evaporator bottom.

5. Attach the adapter stand to the bottom of the evaporator, when its bolts are tightened the adapter stand will force the bottom bearing the correct distance into the evaporator.

Note: If all screws were removed, the shorter screws go into the gear reducer.



6. Attach the evaporator and stand to the gear reducer using the original bolts.

7. Insert the auger assembly from the kit into the evaporator. Align the auger so the splines engage the coupling and the top bearing so the holes in the side align with the holes in the back of the evaporator tube.

8. Attach the bearing assembly using the screws from the kit. Return the permagum plugs to their original spots.

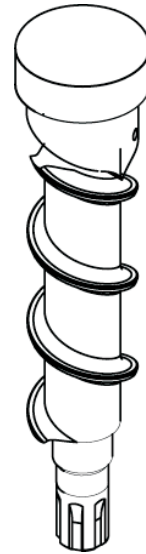
9. Reattach the gear reducer to the chassis.

10. Return reservoir and tubing to the unit, attach with the original screws.

11. Reconnect water supply, confirm there are no water leaks.

12. Return panels to unit.

13. Reconnect electrical power and switch the machine on. Check operation.



Auger Breaker Assembly