



Module E-Cell Replacement Kit

Models: T3, T3e, T5, T5e, 5680, 5700, Speed Scrub 24-32, Speed Scrub 17-20



This kit is intended for all *ec-H2O* models manufactured before serial number date code DC0508 (May, 2008).

The purpose of this kit is to replace all module e-cells that have been exposed to antifreeze during shipment.

The RV antifreeze that was used during shipment to protect your machine from freezing may result in potential e-cell housing damage, causing water leakage.

Please advise customer not to use antifreeze if transporting or storing machine in freezing temperatures.

KIT INSTALLATION INSTRUCTIONS:

Installation Time: 1.5 hours max.

TOOLS REQUIRED: Phillips Screwdriver, Hose Cutter
Needle Nose Pliers and Pliers. (T3 Model: 7mm & 10mm Wrench).

Prepare Machine for Kit Installation

IMPORTANT: Before installing the new e-cell, it's important that the machine and module are flushed and rinsed of all antifreeze solution. Failure to prepare machine as described below may damage new e-cell.

FOR NEW MACHINES (never operated).

1. Drain antifreeze from solution tank.
2. Rinse solution tank of all antifreeze residue.
3. Close drain hose/sight tube and fill solution tank with 1 gal/4 L of water (5680/5700 - 2 gal/8 L).
4. Disconnect the black connector hose fitting at the scrub head and place the hose into bucket (Figure 1).

T5
model
shown



FIG. 1

5. Turn the key to the on position.
6. Press the module flush switch to flush remaining antifreeze from *ec-H2O* system (Figure 2). When water turns clear, press the module switch again to stop flush cycle. The module is located under the recovery tank (5680- behind front machine cover)

T5
model
shown



FIG. 2

Kit Contents

Part No.	Description	Qty.
-	E-Cell Assembly	1
230023	Bag, Plastic (Ziplock, 2mil)	1
376057	Label, Warranty Return	1

7. Drain remaining water from solution tank.
8. Again, activate the module flush switch until *ec-H2O* system runs dry.
9. Turn key to the off position.

FOR MACHINES IN CURRENT USE

1. Drain water from solution tank.
2. Disconnect the black connector hose fitting at the scrub head and place the hose into bucket (Figure 1).
3. Turn key on and press the module flush switch to flush remaining water from *ec-H2O* system (Figure 2). When system runs dry press the module switch again to stop flush cycle.
4. Turn key to the off position.

Module Rework Instructions

1. Turn key to the off position.
2. Remove the *ec-H2O* module from the machine's metal mounting bracket.

T3 Model - The front shroud/recovery tank assembly must be removed to access module.

3. Open the module to access the e-cell (Figure 3).
4. Remove the e-cell assembly from module housing. Four screws hold it in place (Figure 3).

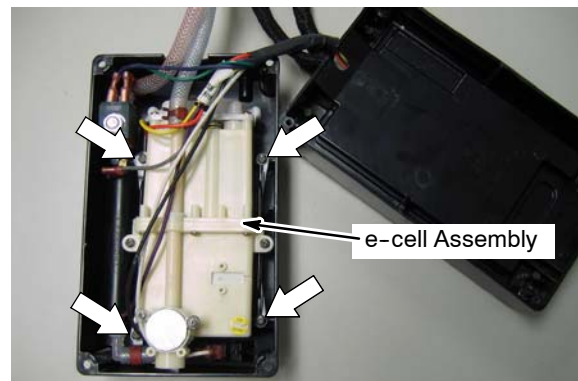


FIG. 3

Module E-Cell Replacement Kit INSTALLATION INSTRUCTIONS - Continued

5. Remove the sparger bracket from the e-cell. Four screws hold it in place. Disconnect hose at the sparger outlet. To remove hose, carefully slice hose lengthwise over the barbed fitting. (Figure 4)

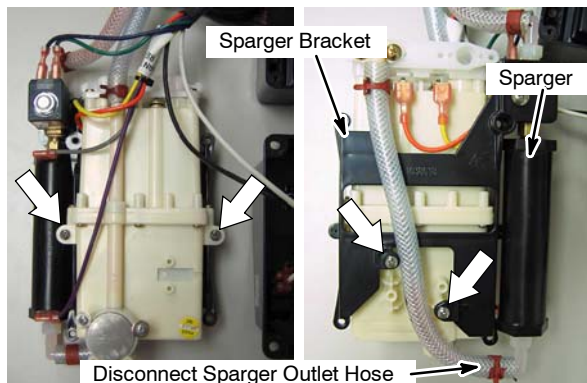


FIG. 4

6. Disconnect the orange and yellow wire terminals from e-cell (Figure 5).

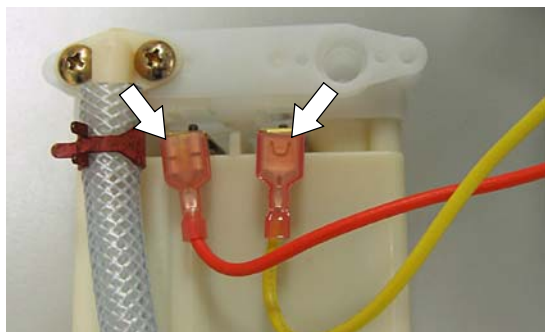


FIG. 5

7. Using a hose cutter, cut the e-cell outlet hose as shown (Figure 6).

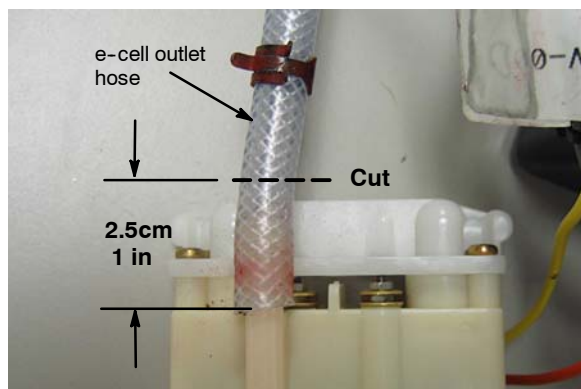


FIG. 6

8. Install new e-cell, supplied with kit. Repeat steps 1 through 6 in reverse order, however take note of the following instructions when reassembling module.

When connecting outlet hose to e-cell:

- Do not use excessive force. Nipple may crack.
- NOTE:** Use needle nose pliers to expand hose end (Figure 7).
- Only use water as a lubricant.
- **IMPORTANT:** Make sure the hose clamp ears are positioned to the side (Figure 8). This allows clearance when closing module housing. If clamp ears come in contact with housing, nipple may crack.



FIG. 7

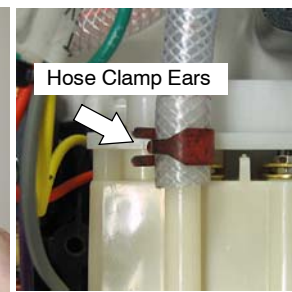


FIG. 8

Before closing the module housing:

- Check the e-cell for water leaks as described. Refill solution tank with water and place hose in bucket (Figure 1). Turn key on, activate the *ec-H2O* module flush switch (Figure 2) and check e-cell for water leaks.
- Turn key off and reconnect the black connector hose fitting.
- Position the 2 hoses and the wire harness as shown (Figure 9). This allows the outlet hose to come straight off the nipple minimizing the risk for potential cracking.

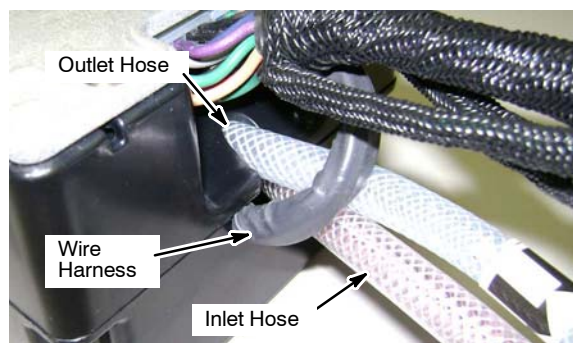


FIG. 9

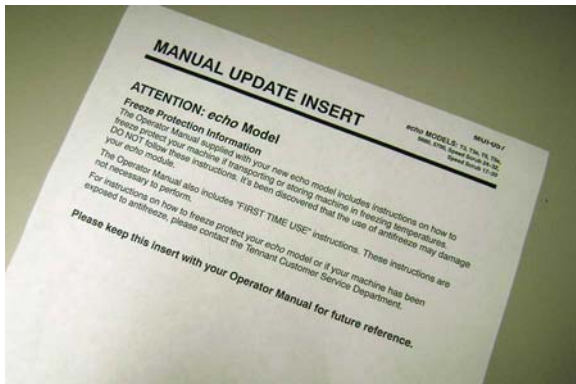
INSTALLATION INSTRUCTIONS - Continued

After Installing Kit

FOR NEW MACHINES: Remove the yellow label and the yellow sheet from the machine.



Included with these instructions is a Manual Update Insert (shown below). Please include this sheet with the existing Operator Manual.



Warranty Claim Instructions

1. Call the Tennant Warranty Department at 1-800-553-8033 (ext: 5356) for a Return Authorization Number.
2. Fill out the ARS label, supplied with kit.
Use "ec-H2O" as warranty authorization and "102" as account number.
3. Seal the old e-cell in plastic bag, supplied with kit.
4. Package e-cell in same box from kit and return.