



TUE080 WATER FILL ELECTRODE ADJUSTMENT & INSTALLATION INSTRUCTIONS

Step 1 – Chamber Pitch Adjustment

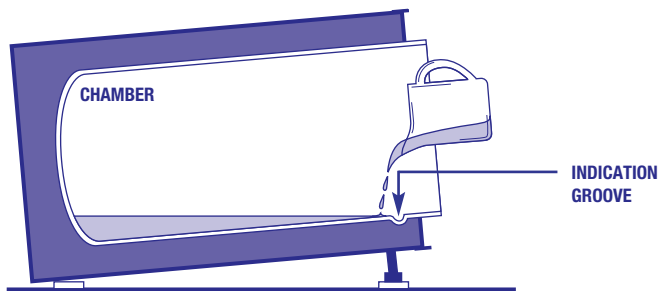
Adjusting the chamber for proper pitch is essential to the performance of the sterilizer. If the pitch is not set correctly, too much or too little water will fill into the chamber at the beginning of each cycle preventing the sterilizer from performing optimally.

To adjust the pitch of the chamber: 1) Empty the sterilizer. 2) Turn **OFF** the sterilizer. **Important:** *The chamber must be dry and cool to the touch before proceeding to the next step.* 3) Ensure that all legs are installed properly and the unit is located on a sturdy, level surface. 4) Measure only the amount of distilled water indicated in **Table A** “Amount of Distilled Water Needed Per Model” for the corresponding model. Pour measured amount through the open door directly into the chamber. The water must reach the **indication groove** near the front of the chamber. Refer to **Figure 1** below. If the water does not reach or goes past the **indication groove**, the sterilizer must be adjusted. To help level the sterilizer, the front legs of the sterilizer may be adjusted using a wrench. 5) Once the chamber pitch has been properly set, drain and dry the chamber.

TABLE A AMOUNT OF DISTILLED WATER NEEDED PER MODEL	
Model	Distilled Water
1730	10 oz (300ml)
EZ9	10 oz (300ml)
2340	12 oz (350ml)
2540	12 oz (350ml)
EZ10	12 oz (350ml)
3850	20 oz (600ml)
3870	24 oz (750ml)

Figure 1

The water must reach the indication groove near the front of the chamber. If the water does not reach or goes past the indication groove, the sterilizer must be adjusted. To help level the sterilizer, the front legs of the sterilizer may be adjusted using a wrench.

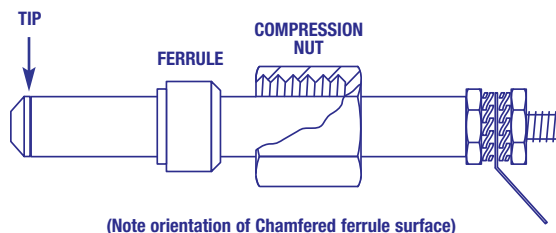


Step 2 – Installation and Adjustment of the Water Fill Electrode

- 1) Unplug the sterilizer.
- 2) Ensure that the chamber is cool and dry.
- 3) Remove the back panel of the unit.
- 4) Locate the Water Fill Electrode which is mounted in the bottom of the chamber. Carefully push aside the insulation covering the electrical connection and then disconnect the green wire connected to the electrode.
- 5) Loosen the compression nut holding the electrode in place and remove the complete electrode assembly including the compression nut and ferrule. See **Figure 2** below for a complete illustration of the various parts involved and the orientation of the ferrule and the compression nut).

Figure 2

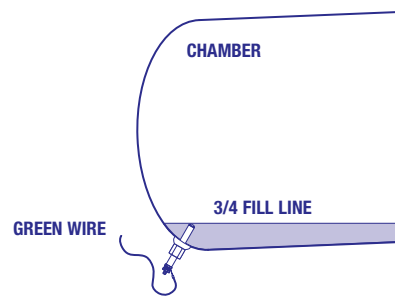
Loosen the compression nut holding the electrode in place and remove the complete electrode assembly including the compression nut and ferrule. Note the orientation of the ferrule and the compression nut.



- 6) Install the new electrode assembly and gently tighten the compression nut ensuring that the electrode can still be adjusted in and out of the chamber.
- 7) Measure out three-quarters of the amount of distilled water listed in **Table A** and pour it into the chamber insuring that none of the water leaks out from the compression fitting.
- 8) Adjust the new Water Fill Electrode by sliding it further into or out of the compression fitting until the tip just breaks the top of the water. See **Figure 3** to the right.
- 9) Tighten the compression fitting until the ferrule is seated and properly compressed being careful not to over tighten it. Carefully remove as much of the water as possible from the chamber.
- 10) Reconnect the green wire to the electrode and reposition the insulation over the assembly.
- 11) Plug the unit in and run a cycle to check for steam leaks around the compression fitting.

Figure 3

Adjust the new Water Fill Electrode by sliding it further into or out of the compression fitting until the tip just breaks the top of the water.



Step 3 – Checking and Adjusting the Automatic Water Fill Time

A. This procedure applies to E Series sterilizers that DO NOT have built in water pumps. (The serial number/date code does not contain the letters WP.)

- 1) Ensure that the chamber is dry, the reservoir is full, and that the sterilizer is plugged in and turned **ON**.
- 2) Open the chamber door and locate the door switch. Press the door switch in, and hold it. At the same time, press and release the **START** key. Release the door switch after water starts to flow into the chamber.
- 3) The final water level should reach the groove at the front of the chamber. If the water level reaches the groove, no adjustments are necessary. If the water level does not reach the groove, proceed to Steps #4-11 to make adjustments.
- 4) Turn **OFF** the sterilizer. Ensure that the chamber is dry, the reservoir is full and that the sterilizer is plugged in.
- 5) Locate the **WATER INLET** key on the front panel keypad. (Note: It is the key with the two arrows between parallel lines.)
- 6) With the door open, press and hold the **WATER INLET** key and turn power **ON**.
- 7) Release the **WATER INLET** key when the normal program display screen appears. Wait one second then press and hold the **WATER INLET** key again.
- 8) Water should begin to flow into the chamber.
- 9) Release the **WATER INLET** key when the water level has reached the groove at the front of the chamber.
- 10) Wait ten seconds for the system to record the new fill time into memory before pressing any additional keys or turning off the sterilizer.
- 11) Empty the water from the chamber, then repeat Steps #2-3 to check water level.

B. This procedure applies to E Series sterilizers that DO have built in water pumps. (The serial number/date code ends with the letters WP.)

Service Tip: *If it becomes necessary to reset the software in an E series model sterilizer with a water pump, this procedure **MUST** be followed before using the sterilizer to ensure the correct amount of water will be delivered to the chamber.*

- 1) Ensure that all legs are installed properly, none of them are damaged, and the unit is located on a sturdy, level surface.
- 2) Ensure that the chamber is dry, the reservoir is full, the door is closed and properly sealed. The sterilizer must be plugged in and turned **ON**.
- 3) Press the **STOP** key on the front panel keypad repeatedly until the message **CODE: XXX** appears.
- 4) Using the **UP/DN** arrow keys, change the displayed message to **CODE: 105** then press the **STOP** key.
- 5) Ensure that the message **WATER IN = XX SEC** is displayed. Using the **UP/DN** arrow keys, change the seconds displayed to the corresponding suggested starting values for the model in **Table B** to the right. **NOTE:** Fill times are suggested starting values – if during daily use there appears to be inadequate water in the chamber then fill times can be increased to add additional water to the chamber.
- 6) Press the **STOP** key to set the displayed value in memory.
- 7) The message **EA TYPE:** should be displayed at this point.
- 8) Using the **UP/DN** arrow keys, select either “0” for a model E or EK unit, or select “1” for an EA or EKA unit.
- 9) Press the **STOP** key to finish programming the fill time.
- 10) Run one or two cycles to check for proper operation.

TABLE B SUGGESTED STARTING VALUES	
Model	Fill Time
EZ9	30 seconds
2340	30 seconds
EZ10	35 seconds
2540	35 seconds
3870	65 seconds