



**Peerless, Inc.**  
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**Start-up Procedure**  
**Peerless 30 CME Softener**

1. Pipe ¾" or 1" inlet and outlet service piping, according to the print, and arrows on bypass.
2. **Set brine tank in place on a clean, level surface.** This prevents bottom puncture when weight of water and salt are added. Connect brine line (furnished in brine tank) from brine tank to valve. Line must be air tight.
3. Connect 5/8" OD poly tubing (not supplied) from valve to suitable drain. **DO NOT** use clear collapsible tubing.
4. With bypass valve in the bypass position, open a cold water tap nearby and let it run a few minutes. Once free from air, close tap. Partly open bypass to allow water to slowly fill tank. Once water stops running into tank, rotate bypass valve into the full service position. Again, open a cold water tap nearby and let the water run until the water is clear and free of air.
5. Plug unit into an approved 120V AC outlet. Press the **Set Clock** button once and hour will flash. Use the up or down triangle buttons until the correct hour is displayed. Press the **Set Clock** button again and the minutes will flash. Use the up or down triangle buttons until the correct minutes are displayed. Press the **Set Clock** button to finish.  
**NOTE:** Time of day must be set correctly to either AM or PM.
- 6.A. Test water, and set computed grains of hardness expressed as gpg (grains per gallon), and iron expressed as ppm (parts per million) Do not forget to compensate for iron. The iron result in ppm should be rounded up to the nearest whole number. Take that number and times it by four (4). Take that result and add it to the hardness value. This is the number you will use to set up your control for your specific requirements.  
**NOTE:** If your iron result is higher than 5 ppm, we recommend an iron filter be installed before the softener. If an iron filter is installed, or you do not have any iron in your water, you do not have to compensate for iron when setting up the control for your specific requirements.
- B. To set the total hardness in the unit, press the Next and Up triangle buttons at the **same time**. The display will show *Hardness*.  
Press the Up or Down triangle to enter your total hardness result from step 6.A.
- C. Press the Next button, and the display will show *Regen Day*. The factory default is set at 7. Please do not change this value.
- D. Press the Next button, and the display will show *Time Regen*. The factory default is set at 2:00 A.M. Press the Up or Down triangle to change the hour. Press the Next button and the minutes will flash. To change press the Up or Down triangle to change the minutes. Press the Next button to finish.
7. Manually add water to brine tank until water is ½" above the grid.
- 8.A. Press and hold the Regen button for 5 seconds. Release when display shows backwash. Let the water run for 5 minutes.  
B. Press the Regen button and release. The display will show Brine. Wait 1 minute.  
C. Press the Regen button and release. The display will show Backwash. Wait 1 minute.  
D. Press the Regen button and release. The display will show Rinse. Wait one 1 minute.  
E. Press the Regen button and release. The display will show Fill. Push down on the float rod to purge air from the brine line.
9. Fill brine tank with salt. Peerless recommends Hardi-Cube, Dura-Cube or Mini-Cube or salt substitutes, i.e. Potassium Chloride, (trade names) K-Life or Soft Touch.
10. Open cold water valves in house to relieve air. Let water run for 3 minutes and test cold water to make sure it is soft.
11. Hot water from the water heater (unless drained and filled with soft water) will not become soft until the customer has used approximately 3 times the holding capacity of the water heater.
12. Write the installation date (month/year) on the sticker found inside the front cover.

# INSTALLATION DIAGRAM

## Specifications

Rough in dimension: From the floor to the center of bypass approximately 50"

Maximum distance and size for drain line: 50' horizontal, 10" vertical rise, using 1/2" ID drain line

Maximum distance and size for brine line: 15' horizontal (see note) using 1/4" ID poly tubing

Note: The horizontal distance for the brine tank can be increased to 35' if the brine tank is installed above the unit.

Example: Softener installed in the basement and brine tank installed on 1st floor. The brine tank CANNOT be installed below the bottom of the unit. The drain and brine lines should NOT be installed with tubing that can collapse. This will cause the unit to malfunction.

Caution: Do NOT connect drain line tubing from control valve to overflow fitting/tubing on brine tank.

