

PURPOSE OF THE KIT

To provide a replacement check valve plate for the PowerSurvivor-40E.

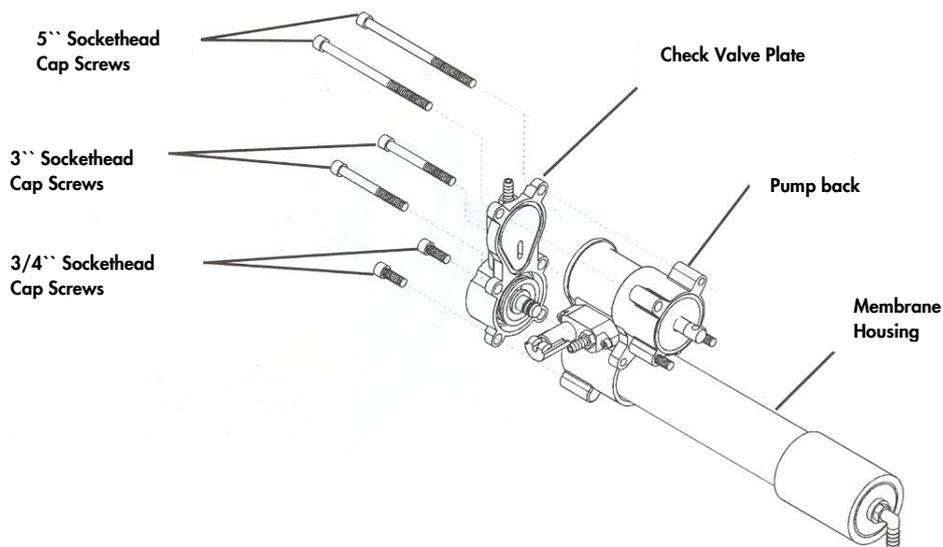
CONTENT OF THE KIT

- Check valve assembly
- O-rings
- Silicon lubricant

TOOLS REQUIRED

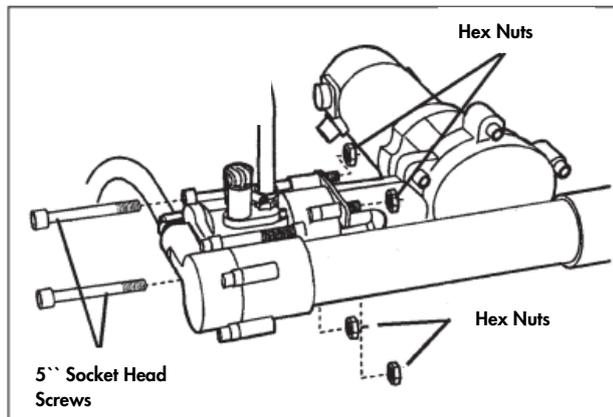
- Allen Wrench (1/4")
- 1/2" open end wrench

INSTALLATION PROCEDURE

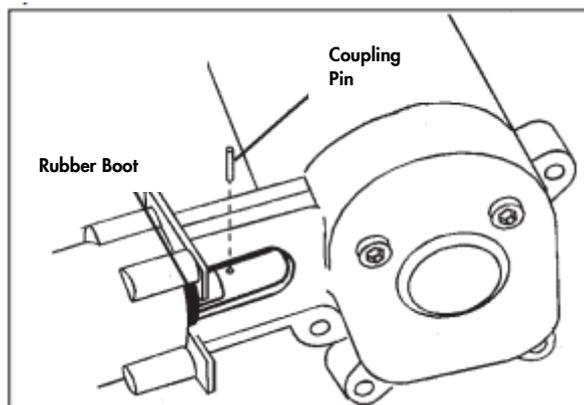


DIASSEMBLY:

1. Before beginning disassembly, run the watermaker and stop it when the piston shaft is at its farthest point of travel away from the pump (i.e., toward the drive assembly). This provides enough room for sliding the rubber boot toward the pump in a later step.
2. Disconnect the pump from the drive assembly by first removing the two hex nuts and 5" socket head cap screws from the check valve plate, using the 1/2" open-end wrench and 1/4" Allen wrench. Also remove the two hex nuts securing the pump back plate to the drive assembly. See figure below.



3. Slide the black rubber boot on the piston shaft toward the pump to expose the drive shaft coupling pin. Use a small Allen wrench or similar tool to push the coupling pin out of the drive shaft. Be aware that the coupling pin fits loosely in the drive shaft and may fall out when the rubber boot is removed. Be careful not to lose it. Separate the drive assembly from the pump and set the drive assembly aside.



4. Remove the two 3" socket head caps crews using a 1/4" Allen wrench.
5. Remove the remaining two 3/4" socket head cap screws from the check valve plate using a 1/4" Allen wrench. Separate the check valve plate from the pump body. If it is difficult to remove, try rotating the check valve plate 90°. This provides a better grip for pulling the check valve plate from the pump body.
6. After the check valve plate has been separated from the pump body, the membrane tube plug will remain in either the check valve plate or the pump end of the membrane housing. Use one of the following procedures to remove it:
 - A. If the membrane tube plug remains in the membrane housing, no further actions are required.
 - B. If the membrane tube plug remains in the check valve plate, use a thin edge and/or flat blade screwdrivers, on opposite sides of the membrane tube plug, to carefully pry the plug out of the check valve plate. Avoid damaging the membrane tube plug.

