

## MB-7 ENDCAP REPLACEMENT

Membrane end cap replacement is relatively simple if you have the newer black membrane housing. If you have a white housing, ask for bulletin MB6: Codeline Housing.

You will need one End Cap Kit, p/n KIT-PVECAWOR, if your unit is not equipped with a Z-brane electronic water treatment system, or a KIT-PVECAWORZ if you have the Z-brane system, for each housing. The kit contains two caps and all the o-rings and pipe plugs required. If replacing both endcaps do them one at a time. If you have the Z-brane, see the additional instructions below.

Remove the fittings from the endcap. Loosen the Black anodized aluminum collar that holds the end cap in place. It is threaded onto the end of the membrane housing. Use a spanner wrench or a mallet and wooden stick in the machined groove/dimple to loosen it. Unscrew the collar and pull out the old endcap.

Check to make sure that the internal o-ring that seals the product water tube, and the large external o-ring are in place in the new endcap, and lightly greased with silicon grease. Note, on some earlier models, there will be 2 small o-rings that seal against the product tube. Make sure both are installed or you will get leaks. Push the new endcap into place and snug up the collar. The collar does not need to be very tight because the o-rings do all the sealing. Install the high pressure compression fitting p/n PLMTS-3/8X1/2B. You can use the old one if it is in good shape, if it needs to be replaced order it separately. Roll the supplied o-ring over the threads of the fitting and screw it in. It only needs to be snug because the O-ring does the work.

Each end cap has two 1/8 inch NPT ports for the product water outlet fitting. Use the supplied pipe plugs to plug the unused ports.

**Z-Brane Instructions: Disconnect power at least 20 minutes before working on the Z-brane end caps, or you may receive an electrical shock.** One end cap has the ground wire attached to a 1/4 inch stud. Remove this wire before removing the end cap and attach it to the new end cap after installation. The other end cap has the zeta rod installed in it. Remove the rod by unscrewing the Phillips Head machine screw at the base of the rod, and removing the stainless steel semi-circular plate. Note: Older versions of the Z-Brane system have a threaded rod, on these systems you will need to remove the end cap before removing the zeta rod. Clip the wire ties which hold the zeta rod cable so that you will have at least 12 inches (30cm) slack. Slide the rod out carefully; the zeta rod is about seven inches (16cm) long and fits closely inside the product tube. Remove the end caps following the instructions above. Install the zeta rod in the new cap, using Teflon tape on the threads, before installing the cap in the housing.

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