

**Ref: Boost Pump Engineering Change Notice**

**From: Spectra Watermakers 8-22-19**

For many years Spectra has used Laing brand centrifugal pumps as boost pumps. As of August 1<sup>st</sup>, 2019, all production systems will have an inline 5-amp micro fuse attached to this pump. These waterproof fuse holders are circled in figures 1 and 2 below.



**Figure 1** Sea Strainer/Boost Pump Module



**Figure 2** Dual Boost Pump Module

During a boost pump failure, the impeller will simply stop spinning. Occasionally an internal failure will occur, resulting in a dead short in the pump. A dead short at the pump will blow the fuse on the circuit board. With MPC systems, the 5-amp Fuse 2 would blow. Since Spectra added a 12 to 24 Volt step up on 12 Volt systems, and an AC-(24V)DC transformer on AC systems, it is difficult for the failure to damage the MPC or Spectra Connect Board. On dual boost pump systems (Figure 2 above) if one of the boost pumps fail it will now be very easy to detect which pump has failed without disassembly.

The part number for the replacement fuse is:

**EL-FUS-5AMIC2** 5A MICRO2 FUSE

The part number for the Fuse Holder is:

**EL-FUS-15AMICHD** 15A MICRO FUSE HOLDER

For those who want to add this to their existing Spectra system, we have designed a kit. This kit comes with the fuse holder, fuse, and two pre-crimped butt connectors. The red wire leaving the boost pump simply needs to be cut, stripped and crimped onto the inline fuse assembly.

The part number for the Fuse Kit is:

**KIT-FUS-FK5A** 5A FUSE KIT

