MPC-6 PCB FUSES

The CHECK FUSE alarm indicates that one of the seven fuses on the MPC-3000 or MPC-5000 Printed Circuit Board has blown. These fuses are the flat, color coded, small ATM automotive style. The display will indicate by number which fuse has blown. The fuse bases are numbered on the PCB. Before replacing the fuse find and repair the problem that caused the fuse to blow. The fuses supply power to the terminal strip on the PCB as follows:

Fuse #1 **5A**: PVLV Priming valve solenoid
FWV Fresh water flush valve solenoid

Fuse #2 **5A**: AUX 3. Not used on MPC-3000.
Optional boost pump on MPC-5000
*Note: Newport 700 & 1000 MK2 systems use a **7.5A** fuse.*

Fuse #3 **15A**: PMP1, Feed pump number 1
*Note: MPC 5000 systems with the battery backup will use a **10A** fuse.*

Fuse #4 (was 30A) now **5A**: DVLV, Diversion valve solenoid

Fuse #5 **15A**: PMP 2, Feed pump number 2 (model 380 only) or Flush Speed
*Note: MPC 5000 systems with the battery backup will use a **10A** fuse.*

Fuse #6 **10A**: AUX 1, Powered when display illuminated
AUX 2, Powered during run cycle on MPC-3000. Used for optional boost pump

Fuse #7 **5A**: STER, Powered when feed pumps running. Optional ultra violet sterilizer.

Before replacing fuses: Shut off the main power supplies. Remove the lead wire that goes to the affected component from the terminal strip. Using a digital ohmmeter, check the circuits for dead short. You should see about 10 ohms or more on the solenoid valve circuits, 38 Ohms on 24 volt MPC 3000 systems.

On Newport systems the feed pump is powered through external relay(s) from the MPC-printed circuit board. You should see in excess of 50 ohms on the feed pump relay circuits.

On Catalina systems the feed pump relay is inside the MPC-3000 box, but readings should be the same as on the Newport.

On 150, 200, and 380 systems using Shurflo feed pumps, the pumps are run directly from the board. The Shurflo pumps must be disconnected from the MPC-printed circuit board and tested for current draw using an ammeter or independent circuit breaker.
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