

## TROUBLE SHOOTING

PROBLEM	CAUSE	CORRECTION
1. Machine will not charge	Feed line shut off valve closed	Open valve
	Float switch in storage tank	Check wires/replace switch Check PLC Input I.1 (If I.1 is on float switch and connecting wires are OK)
	Inlet solenoid valve closed	Dissassemble and clean and/or check for power to coil  Replace valve if PLC Output 0.1 is indicated "On", and coil has 24 VAC
	Fuse blown	Replace
	Low input voltage	Check external supply circuit
	Pretreatment device in regeneration mode	Wait for cycle to finish (Indicated by PLC Input I.3 OFF!)
	Optional TDS meter indicating high TDS	Check meter settings/calibration  NOTE: PLC Input I.4 is on when TDS is high.
	Defective inlet pressure switch	Replace  NOTE: PLC Input I.2 is on <u>when running</u> , indicating inlet pressure switch is OK.

PROBLEM	CAUSE	CORRECTION
2. Pressure pump will not start or cycles "On" and "Off"	Supply pressure too low  Faulty MR-1  Pressure pump motor  Sediment filter dirty	Increase the I.D. of supply line  Replace if PLC output Q2 is indicated "On", and pressure pump motor is OK  Replace if defective  Replace (Max pressure drop approximately 15 psi)
3. Product water TDS too high	Membrane fouled, leaking internal O-Ring	Clean/replace membrane (See RO Element Section)
4. Chlorine detected after pre-carbon filter	Pre-carbon filter exhausted	Replace carbon filter
5. Optional UV light will not light  Or  Low UV output reading	Defective UV lamp or balast  Slow unit  Old or defective lamp	Replace  Wait 3-5 minutes  Replace

**Trouble Shooting can be aided by referencing the PLC Input and Output Status screens. Refer to Figure 7 on page 22 to access these screens.**

The Inputs and Outputs that are On are highlighted on the display.

1. Normal Standby: Displays I/O Status  
Input I.3 On (All others Off)
2. Normal Start Up: Displays Flush Mode  
Input I.1, 2, 3, On (All others Off)  
Output Q.1, 3, On (All others Off)
3. Normal Run: Displays Run Mode  
Input I.1, 2, 3 On (All others Off)  
Output Q.1, 2, 3 On (All others Off)
4. Normal Shut Down: Displays Flush Mode  
Input I.2, 3 On (All others Off)  
Output Q1, 3 On(All others Off)
5. Pretreatment Device: Displays Stand By  
Input I.3 is Off during pretreat regeneration
6. TDS Fault Mode: Displays Fault Mode  
High TDS is Indicated Optional TDS Meter:  
Input I.4 is On (Normal Run Mode Off)
7. Low Pressure: Displays Alarm Mode  
Input I.2 Normal On when running Off when in Stand By or Fault Mode