



## **PROCEDURE TO CONVERT A GEM DEMAND R.O. TO OPERATE WITH AN R.O. STORAGE AND PUMPING SYSTEM**

### **PARTS LIST:**

1 EA. MOMENTARY ACTUATOR	G300-888
1 EA. SWITCH, NORMALLY OPEN (CONTACT BLOCK)	G300-034
1 EA. CONTROL RELAY, 24 VAC 3PDT	G100-600
1 EA. TIME DELAY RELAY, .5 TO 15 SECONDS, 24 VAC	G100-601

### **PROCEDURE**

- 1) **TURN OFF THE POWER TO THE R.O. SYSTEM**
- 2) REMOVE ALL WIRES FROM #4 ON THE CIRCUIT BOARD TERMINAL STRIP AND RELOCATE THEM TO #4 ON THE TERMINAL BLOCK ABOVE THE CIRCUIT BOARD. THIS TERMINAL BLOCK SHOULD HAVE A BLACK SHIELD WITH A RED "CAUTION" LABEL.
- 3) RELOCATE WIRE #7 FROM RELAY CR4 TERMINAL #1, TO TERMINAL #4 ON THE CIRCUIT BOARD TERMINAL STRIP. **THERE IS MORE THAN ONE WIRE ON THE TERMINAL STRIP LABELED #7. BE SURE TO CHOOSE THE CORRECT #7 WIRE.** RELABEL THIS WIRE #120.
- 4) REPLACE "UNIT-ON" LAMP ASSEMBLY WITH THE NEW ACTUATOR AND SWITCH. REUSE THE EXISTING LENS AND METAL BEZSEL. THIS NEW SWITCH WILL ALLOW YOU TO RESTART THE R.O. WHEN THE STORAGE TANK LEVEL IS BETWEEN THE FULL AND RESTART LEVELS.
- 5) RUN A NEW WIRE LABELED #5, FROM #5 ON THE CIRCUIT BOARD TERMINAL STRIP UP TO THE NURSES MONITOR BOX ON TOP OF THE R.O. CONTROL UNIT.
- 6) RUN A NEW WIRE LABELED #6, FROM #6 ON THE CIRCUIT BOARD TERMINAL STRIP UP TO THE NURSES MONITOR BOX ON TOP OF THE R.O. CONTROL UNIT.
- 7) RUN ANOTHER WIRE LABELED #5 FROM THE CIRCUIT BOARD TERMINAL STRIP TO ONE SIDE OF THE NEW "UNIT-ON" (YELLOW) SWITCH.
- 8) RUN ANOTHER WIRE LABELED #6 FROM THE CIRCUIT BOARD TERMINAL STRIP TO THE OTHER SIDE OF THE NEW "UNIT-ON" (YELLOW) SWITCH.
- 9) CONNECT THE COMMON SIDE OF THE "TANK FULL" FLOAT SWITCH AND THE "R.O. RESTART" FLOAT SWITCH TO #35 IN THE NURSES MONITOR BOX ON TOP OF THE R.O. CONTROL UNIT.



- 10)CONNECT THE OTHER SIDE OF THE “R.O. RESTART” FLOAT SWITCH TO #5
  - 11)CONNECT THE OTHER SIDE OF THE “TANK FULL” FLOAT SWITCH TO #6.
  - 12)INSTALL THE TIME DELAY RELAY INTO RELAY SOCKET TDR-2.
  - 13)INSTALL THE CONTROL RELAY INTO CR-1 RELAY SOCKET ON THE CIRCUIT BOARD.
- IF YOU HAVE ANY QUESTIONS, PLEASE CALL 1.800.755.1707