



AKRON ELECTRIC VALVE CONTROLLER **LED REPLACEMENT INSTRUCTIONS**

A valve controller with a burned out LED functions normally, except that the red or green LED does not light up. To determine if this is the cause of the problem, take these steps: With power supplied to the controller, press and hold the “open” button until the green “open” LED comes on. This will require less than 10 seconds. If the valve fully opens, the yellow LED turns off and the green LED does not come on, the green LED is burned out.

Now press and hold the “close” button. The green LED will go off and the yellow LED will come on. Continue to hold the “close” button until the valve completely closes. The yellow LED will turn off and the red LED will turn on. This is normally less than 10 seconds. If the valve fully closes, the yellow LED turns off and the red LED does not come on, the red LED is burned out.

LED REPLACEMENT

Refer to the attached illustration while using these instructions.

1. Turn off all power to valve controller. See truck manual for additional information.
2. If possible, remove the complete valve controller assembly from the pump panel as follows: Remove the four case mounting screws. Disconnect the motor and power connections. If the power connection is made with crimp connectors, note the color code, and cut the power leads leaving as much wire as possible on the controller (new crimp connectors will be added later). The disassembly can now proceed at a workbench.

If the power leads are too short and can not be cut with enough wire left to allow replacing, you may choose to leave the controller on the pump panel. If this is the case, care must be taken to not lose the small parts as the controller is further disassembled.

NOTE: Loosen the four-case mounting screws even if you do not intend to remove the controller from the pump panel. This allows the bezel screws to be properly tightened later.

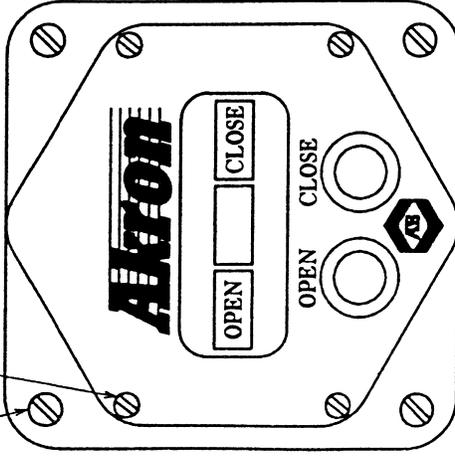
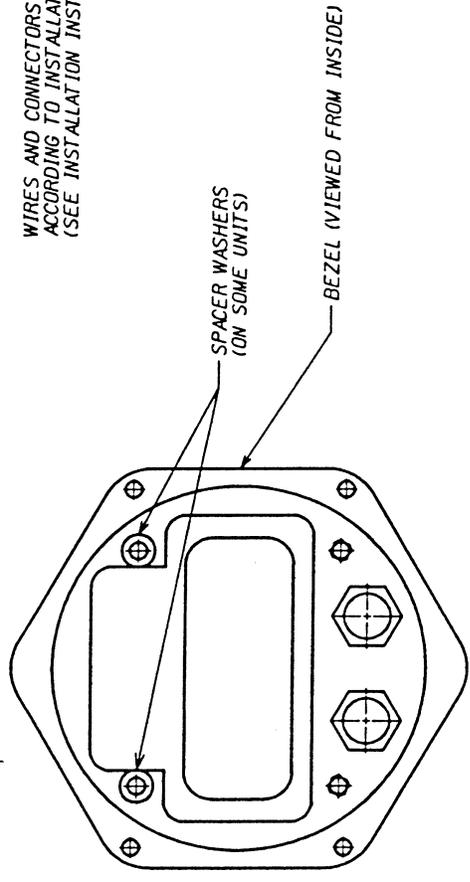
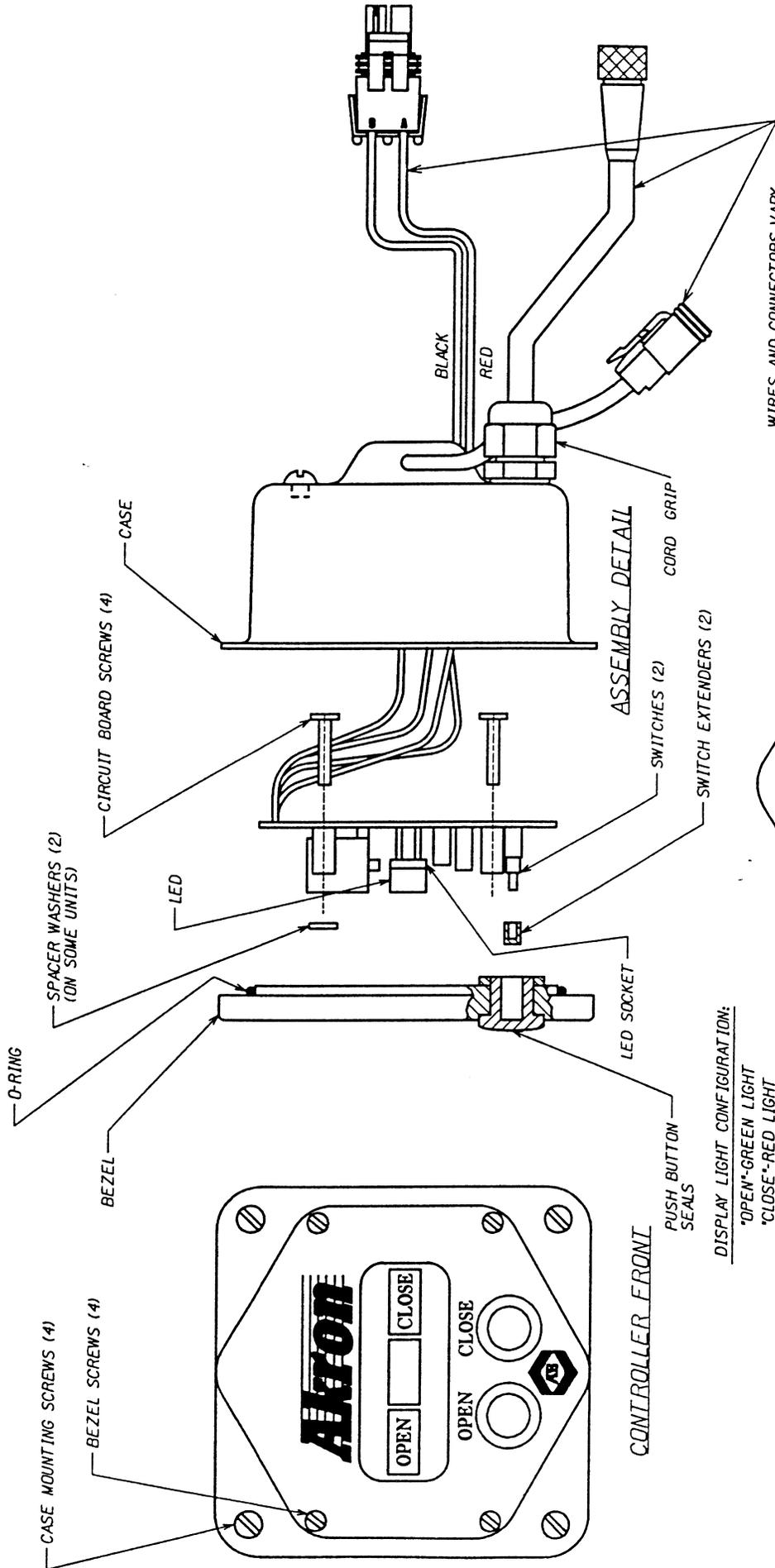
3. Remove the four-bezel screws holding the bezel to the controller case. The bezel can then be pulled away from the case.
4. Gently place the bezel face down on a workbench or some other flat surface (lay on a soft clean cloth.). The bezel can also be held face down in the palm of your hand, but must be held horizontally to prevent losing the small parts.
5. Remove the four screws holding the circuit board to the bezel. Then pull the circuit board away from the bezel. As you remove the circuit board, be careful to note if spacer washers are present. The spacers were used on some controllers to ensure proper “open” and “close” switch operation.

NOTE: There are also two switch extenders in the push button seals. DO NOT LOSE THESE EXTENDERS.

On auxiliary controllers, the cord grip on the back of the controller may be loosened and the yellow wire can be pushed into the case. This allows slack in the wires to facilitate working with the circuit board.

6. The rectangular shaped LED's can now be gently pried out of its socket. Note the color position of the LED's.
7. Insert the new LED's into their sockets taking care to not bend the pins. Be sure each LED is placed in its correct color position. Replace both the red and green LED's at this time even if they are not both burned out.
8. Remove and discard the o-ring on the back of the bezel. Clean the surfaces adjacent to the o-ring with a clean rag. **DO NOT USE ANY SOLVENT ON THE O-RING.** Lubricate the new o-ring with a small amount of silicone grease and place it back on the bezel.
9. Place the bezel with the front down against the workbench, flat surface or the palm of your hand. Place the spacer washers over their correct holes (if originally used). Make sure the switch extenders are in the push button seals with switch holes up.
10. Place the circuit board back on the bezel making sure the spacer washers (if originally used) and the switch extenders remain in the correct positions. If the spacer washers are not put back where they were originally used, proper "open" and "close" switch operation may not occur. The holes in the switch extenders go over the small diameters of the switches. Secure the circuit board to the bezel with the long screws (use a removable strength thread locker such as Loctite on these screws). Do not over tighten these screws.
11. Make sure the o-ring is still in place, and then carefully push the bezel back into the controller case. Secure with the four short bezel screws taking care to not strip the threads in the case (use a removable strength thread locker such as Loctite on these screws). Snug all four screws first, then tighten using a cross pattern. Then retighten all four screws.
12. If the cord grip on the back of the controller case was loosened in step 5, adjust the yellow wire so the indentation left by the cord grip is farther into the case than before, then retighten the cord grip. **DO NOT** tighten it at the same place on the yellow wire it was originally.
13. Reconnect the wires to their proper positions in the pump panel (see the installation instructions for proper wiring procedure). Mount the entire controller back into the pump panel with the four mounting screws.
14. Turn on the power and check operation of the controller and actuator.

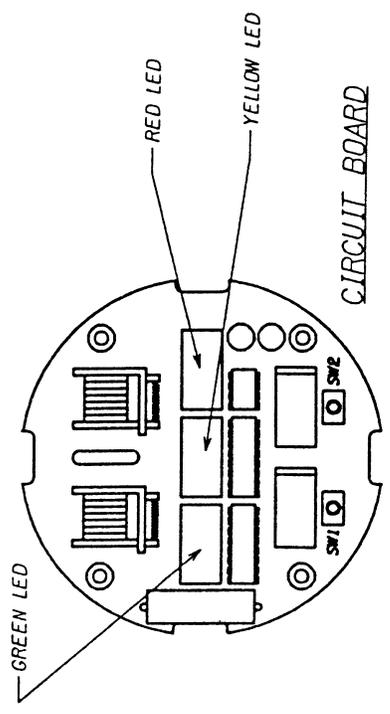
NOTE: Red LED - HLMP - 2685 P/N 7-29-353
 Green LED - HLMP - 2885 P/N 7-29-354
 Yellow LED - HLMP - 2785 P/N 7-29-371



PUSH BUTTON SEALS

DISPLAY LIGHT CONFIGURATION:

- *OPEN*-GREEN LIGHT
- *CLOSE*-RED LIGHT
- MIDDLE-YELLOW LIGHT





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