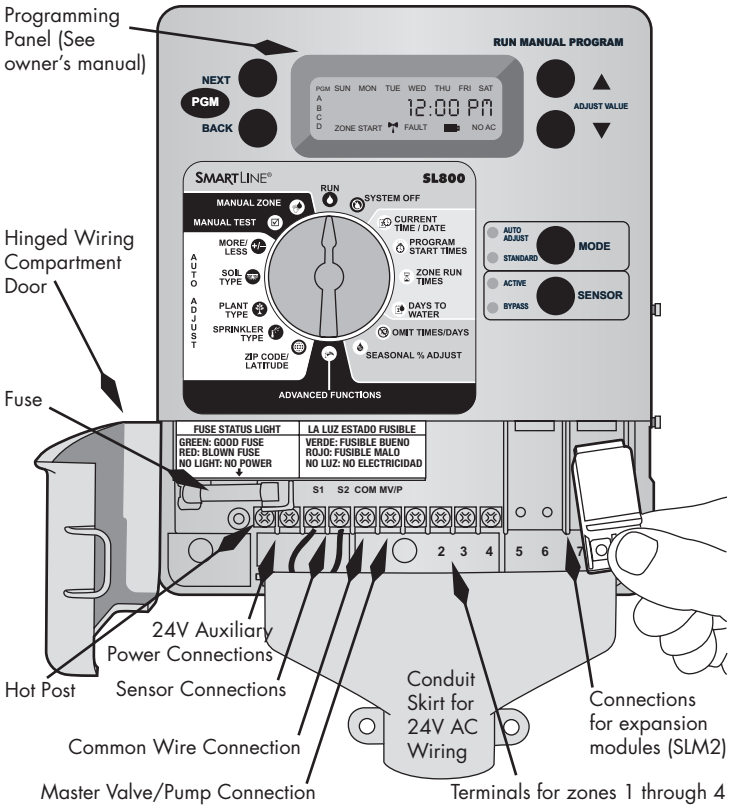

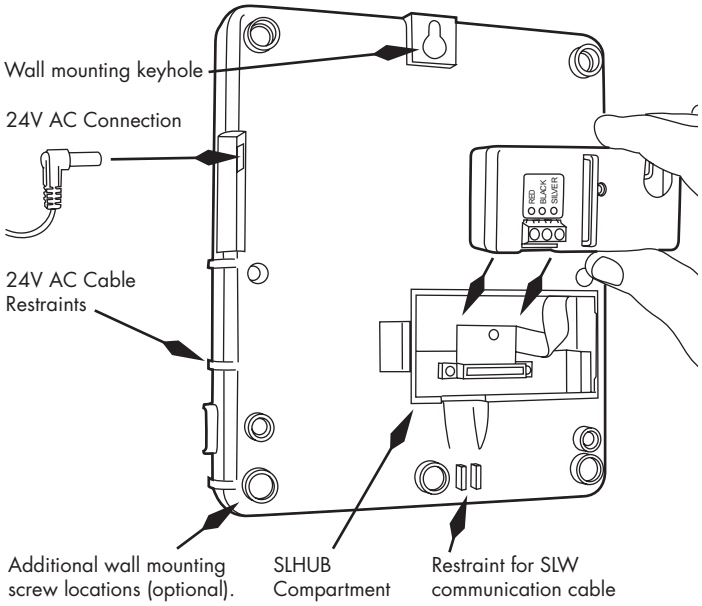

Controller Installation
The SL800 is designed for indoor installations only. Choose a location that is convenient to valve wiring and a 120V (230V for export models E-SL800 and E-SL800A) outlet. The SL800 is not intended for operation by children and should be installed in a location convenient for operation by adults but out of the reach of children. Choose a location with good lighting to maximize display readability.

Installing Optional SLHUB
(If you are not installing an SLW Weather Station, you can skip this step.)
- If you are going to use an SLW Weather Station with the SL800, the first step in installation is to open and discard the SLHUB compartment cover on the back of the SL800 housing. Insert the SLHUB (packaged with the SLW) with the green communication cable terminal to the lower left. Carefully push the SLHUB onto the 10-pin connector. Use provided screw to secure SLHUB to SL800 cabinet. Connect the RED, BLACK and SILVER wires to the SLHUB matching color polarity as shown on the terminal. Secure the communication cable in the restraint provided on the housing.

Mounting the SL800 Controller
- Install a wall anchor. Insert the provided mounting screw into the the wall anchor to a depth allowing the head of the screw to be inserted in the keyhole at the top center of the housing. The housing should be flat against the wall with the head of the screw in the keyhole.
- Remove the hinged wiring compartment door and set it aside temporarily.
- Level the controller housing on the wall and secure it with a second screw through the center housing standoff located just below the terminal position for Zone 1. If additional screws are desired, use the left and right standoffs at the bottom of the housing.

24V Valve Wiring
- Connect Common Valve Wire to COM screw.
- Connect optional master valve or pump start to MV-P terminal and the Common terminal.
- Connect zones 1 through 4 to terminal screws provided. Note: You should always locate zones by using the Hot Post connection. On the SL800, you may use the left 24V auxiliary terminal position as a Hot Post. This terminal position is protected by the fuse.
- If you require constant 24VAC power for a wireless sensor or other optional powered equipment, use the two 24VAC auxiliary terminals provided at the left end of the terminal strip.

24V AC Power Wiring
- Insert male connector into female receptacle on the side of the SL800 housing. Use provided restraints to route the power cable down the side of the housing. Plug transformer into convenient outlet.

Adding Extra Zones
- Connections for two SLM2 modules are provided at the right side of the terminal strip to expand the SL800 to 6 or 8 zones. The SLM2 modules are hot swappable and the SL800 will instantly recognize the additional zones. Push each module onto the male connector. Use the provided terminal screws to secure the front of the module. Do not skip module position 5 and 6. Always install that module position first. To remove an SLM2 module, first remove the terminal screws and then use a small flat blade screwdriver to move the module forward from the rear connector.

Connecting a Sensor
- Use the S1 and S2 positions on the terminal strip for connecting a standard type rain sense or freeze sense. Discard the wire loop if a sensor is connected. Important: The wire loop must be left in place if a sensor is not in use. Do NOT use the S1 and S2 for connecting a Weathermatic SLW. See SLHUB instructions above.

Conduit Skirt
- Complete your installation by sliding the conduit skirt into the locking slots on the housing. If you have installed an SLW, route the communication cable through any of the side openings provided on the skirt. Use two additional provided screws to secure the bottom of the skirt to the wall.
- Replace the hinged wiring compartment door.

Electrical Data for the SL800.
- The SL800 uses a 750mA transformer to power a total of 2 valves including a master valve or pump start relay. Take caution when installing a pump relay that maximum output current does not exceed 720mA.
- The SL800 does not use a backup battery. All programming information including time and date are non-volatile.
- Replacement fuse for the SL800 is a 1.0A, 3AG, slow blow fuse.

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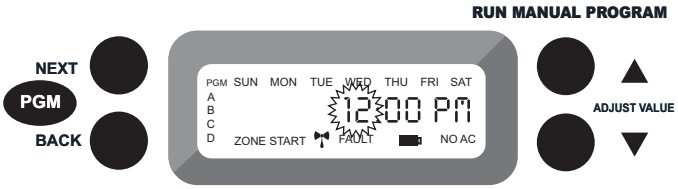
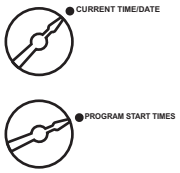


Use PGM to select program A, B, C, or D.

Use NEXT and BACK buttons to select options and scroll between zones.

Use UP ▲ and DOWN ▼ arrow buttons to set values for flashing options.

Standard Programming



1. • Set time of day (AM/PM) and month/day/year.
2. • Set daily start times (AM/PM) for Programs (A, B, C, D) in use.
3. • Set zone run times (1 min to 9 hours 55 minutes) for Programs (A, B, C, D) in use.
4. • Set watering days by selecting days of week or interval (1 to 30 days) or odd or even days for Programs (A, B, C, D) in use.
5. • Set omit times, days, and dates to accommodate watering blackout periods (optional).
6. • Set seasonal % by month for Programs A, B, C, D (optional).
7. • Return dial to RUN.

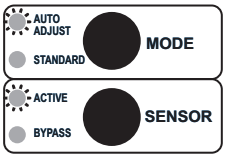
Manual Operation

Manual Test
Turn dial to MANUAL TEST. Use UP ▲ and DOWN ▼ arrows to enter run time (10 seconds to 10 minutes) for all zones with assigned run time. **Return dial to RUN to start.**

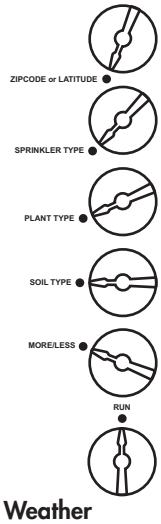
Manual Zone
Turn dial to MANUAL ZONE. Use NEXT button to select zone to run. Use UP ▲ and DOWN ▼ arrow keys to select zone run time (1 min to 9 hours 55 minutes). **Return dial to RUN to start.**

Refer to Owner's Manual for Advanced Functions dial position.

Auto Adjust Programming

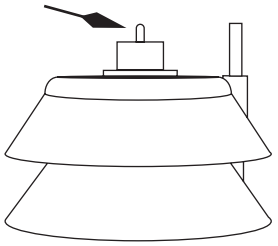


1. Installation of optional SLW weather station and Standard Programming is required for Auto Adjust Programming.
   - Verify correct time and date at Set Time/Date dial position.
   - Enter Zone Run Times, Start Times, and Days. See Standard Programming instructions.
2. • Turn dial to steps noted below. Use NEXT and UP ▲ and DOWN ▼ arrow keys for the following program steps:

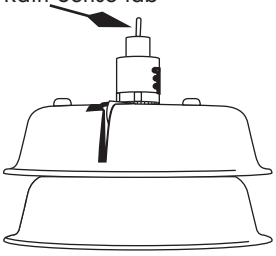


3. • Enter ZIP Code or Latitude.
4. • Enter Sprinkler Type or Precipitation Rate for each zone. Unused zones should be set to OFF.
5. • Enter Plant Type for each zone
6. • Enter Soil Type and Degree of Slope for each zone.
7. • Enter More or Less setting (optional). Set % by zone to accommodate factors like shade, wind, and sprinkler inefficiencies.
8. • Return dial to RUN.
9. • Initiate communication with the SLW weather station. You will need to go to the SLW weather station and push down on the Rain Sense tab at the top for 15 seconds. If communications have been established, you will see an antenna icon on the bottom of the display. Flashing antenna icon indicates communication has occurred in last five minutes. See Owner's Manual.

SLW10/15 Weather Station Rain Sense tab



SLW20 Weather Station Rain Sense tab



10. • Use MODE button to enter Auto Adjust. If you hav communication with the SLW, the Auto Adjust GREEN LED will light. This confirms that you are operating in Auto Adjust.
11. • Select Active LED for sensor position so that the controller will shut down during rain and freeze events.

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