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Controls and Indicators

Operating Modes

- **Set Date & Time** - Set the current Date and Time of day (select 12 hour or 24 hour format).

- **Set Irrigation Schedule** - Edit customized irrigation schedules that run automatically.

- **Seasonal Adjust** - Increase or decrease watering duration (Run Times) by a percentage for all Zones.

- **Auto Run** - Watering occurs automatically according to programmed irrigation schedules.

Manual Watering / Off

- **Manual Watering** - Start watering immediately for ALL Zones or for any ONE Zone.

- **Off** - Stops any active watering and disables automatic irrigation.

Introduction

Thank you for choosing Rain Bird’s WPX Battery-Operated Controller. The WPX is designed to provide worry-free automatic irrigation in the absence of AC power or in areas where installing new field wires is not practical.

Operation and Setup

Contractor Rapid Programming™

At initial programming, the controller automatically copies the start times and watering days from Zone 1 to all other zones.

**NOTE:** If multiple zones have the same or overlapping watering times, the controller will water the zones in sequence (multiple zones will not run at the same time).

**NOTE:** Changes to a zone's schedule made after initial programming will only affect the zone being modified.

**NOTE:** You may re-activate the Contractor Rapid Programming™ feature by resetting factory defaults (see page 5).

Set Date & Time

Press the MODE button until the Set Date & Time screen is displayed.

- Press **+ or –** to set the time format (12 hour or 24 hour); then press **[**
- Press **+ or –** to set the hour (ensure that AM/PM setting is correct when using 12 hour format); then press **[** to set the minutes; then press **[**
- Press **+ or –** to set the year (YYYY); then press **[** to set the day (D), then month (M). If 12 hour format is selected, the date format will be shown as M/D/YYYY.
Set Irrigation Schedule
Press the MODE button until the Set Irrigation Schedule screen is displayed.

1. Select Zone

- Press + or - to select the Zone Number; then press ▶

2. Set Zone Watering Run Times

- Press + or - to set the Run Time (in minutes); then press ▶

NOTE: Run Times can be set between 1 to 240 minutes.

3. Set Zone Watering Start Times

- Press + or - to set the 1st Start Time for the selected Zone (set to 06:00 by default); then press ▶

- Press + or - to set the next Start Time, or press ▶ again to advance to Set Watering Days.

REPEAT to set additional Start Times, up to six for that Zone.

NOTE: Adjustments are set in 10 minute increments.

NOTE: To remove a Start Time, press + or - until -:-- (OFF) is displayed. (-:-- is just before 0:00 or 12:00 AM.)

NOTE: The controller will not water multiple zones at the same time. If two or more zones have the same (or overlapping) start times, the controller will wait until the first zone is finished watering before starting the rest of the zones in sequence. This method is called “start time stacking”.

4. Set Zone Watering Days

Custom Days
- Press + (to enable) or - (to disable) the blinking Selection Day. The cursor will automatically advance to the next Selection Day.

REPEAT to set each day of the week as desired.

REPEAT Steps 1-4 for additional Zones as desired.

When programming is complete, press the MODE button until the AUTO RUN screen is displayed.

Watering Day Options
Additional Watering Day options are also available:
- Cyclic Days (1-30)
- Odd Days (Will NOT water on the 31st of the month)
- Even Days

To change a zone’s watering day type, simply press the + and - buttons at the same time while setting Zone Watering Days.

Cyclic Days

- Press + or - button to set the number of days in the watering cycle; then press ▶

- Press + or - to set the next Watering Day; then press ▶
**Odd Days / Even Days**

![WPX Battery-Operated Controller](image)

- When **ODD 1,3,5...29** (or **EVEN 2,4,6...30**) is blinking, press ▶

**NOTE:** ODD schedules will not water on the 31st of the month.

**Auto Run**

*Press the MODE button until the AUTO RUN screen is displayed.*

![WPX Battery-Operated Controller](image)

In **AUTO RUN** mode, the WPX will irrigate each zone per its programmed schedule. If any zones are scheduled to run at the same time and day, your controller will place those zones in a queue and irrigate one valve at a time, starting with the lowered number zone first.

**NOTE:** After 5 minutes of inactivity, the controller will revert to **AUTO RUN** mode (unless the controller is in **OFF**) and turn off the display. Press any key to turn the display back on.

**Off**

*Press the button until the OFF screen is displayed.*

![WPX Battery-Operated Controller](image)

Selecting the **OFF** mode will cancel any active watering and prevent any irrigation from starting automatically.

**NOTE:** Select the **AUTO RUN** mode to resume normal operation. Programmed irrigation schedules will NOT run if the controller is left in **OFF** mode.

**NOTE:** If you intend to stop automatic irrigation only for a few days, we suggest you use the “Delay Watering” feature described in page 10.

**NOTE:** To re-initiate watering, press the button again to return to **AUTO RUN** mode.

**Manual Watering**

*Press the button until the Manual Watering screen is displayed.*

![WPX Battery-Operated Controller](image)

- Press  or  to select ALL Zones or ONE Zone; then press ▶

- Press  or  to set the Run Time for the selected Zones; then press ▶ to begin watering.

**NOTE:** To water the scheduled runtime for each zone: Press – when setting manual runtime until the screen shows “SCH” MIN.

**One-touch Manual Start**

*Water ALL zones immediately according to their previously scheduled run times:*  

- With the controller in **AUTO RUN** mode, press and hold ▶ for 3 seconds to begin watering all zones that have a programmed runtime.

**Seasonal Adjust**

*Press the MODE button until the Seasonal Adjust screen is displayed.*

![WPX Battery-Operated Controller](image)

The **SEASONAL ADJUST** mode allows you to increase or decrease the run times for all zones by a certain percentage (10% to 200%).

- Press  or  to increase or decrease the setting.

**NOTE:** **SEASONAL ADJUST** applies to ALL automatic watering.

**Special Features**
Special Features

Delay Watering
Delay automatic irrigation for up to 9 days.

- Press the MODE button until the AUTO RUN screen is displayed. (Unit must NOT be watering.)

- Press and hold + for 3 seconds, then press + or – to select the number of DAYS to delay irrigation, up to 9 days.

- To cancel, press – until DAYS is set to 0. (Controller will revert to AUTO RUN.)

- SYMBOL and DAYS remaining are displayed while Rain Delay is in effect.

Contractor Default Save
Save irrigation schedules for future retrieval.

- Press the button until the OFF screen is displayed.

- Press and release both and + buttons at the same time.

- The "OFF" symbol will flash briefly to confirm schedules are saved.

Contractor Default Restore
Restore previously saved irrigation schedules.

- Press the button until the OFF screen is displayed.

- Press and release both + and buttons at the same time.

- The "OFF" symbol will flash briefly to confirm schedules are restored.

Factory Default Restore
Restore the controller’s factory default settings.

- CAUTION: All programmed irrigation schedules currently stored in memory will be lost. However, Contractor Default settings remain stored in separate memory and are not affected by Factory Default Restore, and can be recalled after restoring Factory Defaults.

- Press the MODE button until the Seasonal Adjust screen is displayed.

- Press and release both and buttons at the same time.

Rain Sensor Bypass
Set sensor to Active or Bypass for all zones.

- Press the MODE button until the AUTO RUN screen is displayed.

- Press and release both – and buttons at the same time to toggle between OBEY and IGNORE.

- SYMBOL is displayed when IGNORE is selected.

Set sensor to Active or Bypass for any individual zone.

- Press the MODE button until the Set Irrigation Schedule screen is displayed.

- Press + or – to select the desired zone.

- Press and release both – and buttons at the same time to toggle between OBEY and IGNORE.

- SYMBOL is displayed when IGNORE is selected.

Installation

Valve Wiring
Wires may be extended up to 100 feet (30 meters) (18 AWG / 0.75 mm² minimum wire size) from the controller. All wire connections should be made using appropriate water-proof splice kits (not provided).

- Attach the black wires from each solenoid to the black (common) wire(s) on the WPX.

- Attach one red wire from each solenoid to the appropriate zone wire on the WPX.

- Connect an optional Master Valve.
**NOTE:** The WPX can be mounted on a DC latching solenoid using the included solenoid bracket, or on a wall using the optional wall-mount bracket (Model: 9VMOUNT).

**Batteries**

The Rain Bird WPX uses two alkaline 9-Volt batteries to operate. Your controller will function using either one or two 9-Volt batteries. Under normal conditions, the expected life is 1 year for a single battery and two years when using two 9-Volt batteries.

**Replacing Batteries**

1. Remove the battery compartment cap.
2. Install one or two 9-Volt alkaline batteries on the battery clips provided.
3. Re-install the battery compartment cap.

**NOTE:** Do not mix new batteries with old ones. Doing so could reduce the battery life and cause the controller to stop working prematurely.

**Optional Rain Sensor**

- Cut the yellow loop in half and remove about 1/2” of insulation

**NOTE:** Cut the yellow wire loop only when installing a rain sensor.
- Connect the sensor to the terminals with waterproof connectors.

**BACK OF CONTROLLER**

- **JUMPER WIRE**
- **WATERPROOF CONNECTORS**
## Troubleshooting

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<th>Problem</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
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<td>No Display</td>
<td>Display is in sleep/power save mode.</td>
<td>Press any key to wake up display.</td>
</tr>
<tr>
<td></td>
<td>Batteries are dead.</td>
<td>Replace batteries.</td>
</tr>
<tr>
<td>Automatic irrigation not starting</td>
<td>Missing start time, run time or watering days.</td>
<td>Set start time, run time and watering days.</td>
</tr>
<tr>
<td></td>
<td>Sensor wire loop cut but no rain sensor installed.</td>
<td>Re-connect the sensor wires or bypass the sensor operation.</td>
</tr>
<tr>
<td></td>
<td>Rain Delay is set.</td>
<td>De-activate rain delay.</td>
</tr>
<tr>
<td>Automatic irrigation started but no watering occurs</td>
<td>No water pressure.</td>
<td>Turn on main water supply.</td>
</tr>
<tr>
<td></td>
<td>Faulty wiring.</td>
<td>Check for open/short circuits in wiring.</td>
</tr>
<tr>
<td></td>
<td>Faulty Solenoid.</td>
<td>Replace solenoid.</td>
</tr>
<tr>
<td></td>
<td>Incompatible Solenoid.</td>
<td>Must use a 9V-latching solenoid (Rain Bird K80920) or other compatible DC latching solenoid.</td>
</tr>
<tr>
<td>Controller is watering more than expected</td>
<td>Excessive Start Times, Run Times or watering days.</td>
<td>Modify Start Times, Run Times or Watering Days as desired.</td>
</tr>
<tr>
<td></td>
<td>Seasonal adjust set.</td>
<td>Reduce the seasonal adjust value as needed.</td>
</tr>
<tr>
<td>“Manual Watering ALL” is not watering some zones or isn’t available as an option</td>
<td>One or more zones don’t have a programmed start time or run time.</td>
<td>Program a start time and run time for all desired zones.</td>
</tr>
</tbody>
</table>