


Basic Programming

1 Set Date and Time

 Turn the dial to **DATE/TIME**.


- Press ◀ or ▶ to select the setting to change.
- Press – or + to change the setting value.
- Press and hold – or + to accelerate adjustments.

To change the time format (12 hour or 24 hour):

- With **MINUTES** blinking, press ▶.
- Press – or + to select the desired time format, then press ▶ to return to the time setting.

2 Set Watering Start Times


Up to four Start Times are available for each program.

 Turn the dial to **START TIMES**.

- Press **Program Select** to choose the desired Program (if necessary).
- Press ◀ or ▶ to select an available Start Time.
- Press – or + to set the selected Start Time (ensure the AM/PM setting is correct).
- Press ▶ to set additional Start Times.

3 Set Station Run Times

Run Times can be set from one minute up to six hours.


 Turn the dial to **RUN TIMES**.

- Press **Program Select** to choose the desired Program (if necessary).
- Press ◀ or ▶ to select a Station.
- Press – or + to set the Run Time for the selected Station.
- Press ▶ to set additional Station Run Times.


4 Set Watering Days

Custom Days of the Week

Set watering to occur on specific days of the week.

 Turn the dial to **RUN DAYS**.

- Press **Program Select** to choose the desired Program (if necessary).
- Press – or + to set the selected (blinking) day as either **ON** or **OFF**, and to automatically move to the next day.
- You can press ◀ or ▶ at any time to move the cursor to the previous or next day.

 **CAUTION:** If Sunday is selected, ▶ will enter and activate Cyclic Watering (see the Advanced Programming section). If this is not desired, press the ◀ button to return to watering by Custom Days.

Manual Watering Options

Test All Stations

Start watering immediately for all programmed stations.

 Turn the dial to **MANUAL STATION**.

- Press **-** or **+** to set a Run Time.
- Press and hold **▶** or turn the dial to **AUTO RUN** to start manual station test.

Run a Single Station


Start watering immediately for a single station.

 Turn the dial to **MANUAL STATION**.

- Press **▶** to display the MANUAL STATION screen.
- Press **◀** or **▶** to select a Station.
- Press **-** or **+** to set a Run Time.
- Press and hold **▶** or turn the dial to **AUTO RUN** to start the selected Station.

Run a Single Program

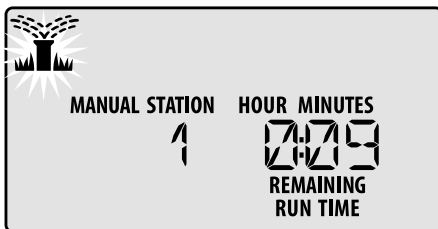
Start watering immediately for one program.

 Turn the dial to **AUTO RUN**.

- Press **Program Select** to choose the desired Program (if necessary).
- Press and hold **▶** to start the selected Program.

During Manual Watering:

The display shows a blinking sprinkler symbol, the active Station Number or Program, and the Remaining Run Time.

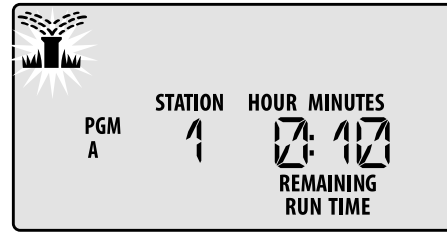


- To cancel manual watering, turn the dial to **OFF** for three seconds until the screen shows OFF.


Normal Operation


AUTO RUN

During watering, the display shows a blinking sprinkler symbol, the current Program and the Remaining Run Time.



OFF


Turn the dial to  **OFF** to stop automatic irrigation or to cancel all active watering immediately.

 **CAUTION:** Watering will NOT occur if the controller remains in **OFF**.

Advanced Programming

Odd or Even Calendar Days


Set watering to occur on all **ODD** or **EVEN** calendar days.

 Turn the dial to **RUN DAYS**.

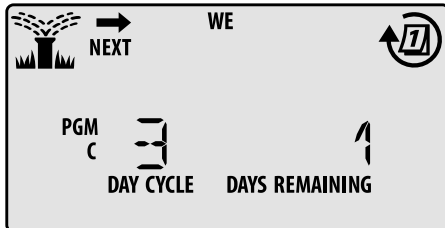
- Press **Program Select** to choose the desired Program (if necessary).
- Press and hold ◀ and ▶ at the same time until **ODD** or **EVEN** is displayed.

Cyclic Days

Set watering to occur at specific intervals, such as every 2 days, or every 3 days, etc.

 Turn the dial to **RUN DAYS**.


- Press **Program Select** to choose the desired Program (if necessary).
- On the **Custom Days** screen, press ▶ until the **Cyclic** screen is displayed (after SUN).
- Press – or + to set the desired DAY CYCLE, then press ▶
- Press – or + to set the DAYS REMAINING before the cycle begins. The NEXT watering day updates on the display to indicate the day that watering will start as shown.



Rain Sensor

Set the controller to obey or ignore a rain sensor.

When set to **ACTIVE**, automatic irrigation will be suspended if rainfall is detected. When set to **BYPASS** all programs will ignore the rain sensor.

 Turn the dial to **SENSOR**.

- Press – or + to select **ACTIVE** (obey) or **BYPASS** (ignore).

 **NOTE:** See **Special Features** to set Rain Sensor Bypass by Station.

Seasonal Adjust

Increase or decrease program run times by a selected percentage (5% to 200%).

Example: If the Seasonal Adjust is set to 100% and the station Run Time is programmed for 10 minutes, the station will run for 10 minutes. If the Seasonal Adjust is set to 50%, the station will run for 5 minutes.

 Turn the dial to **SEASONAL ADJUST**.

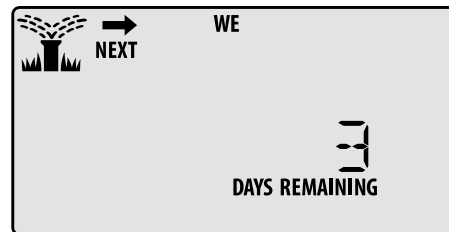
- Press – or + to increase or decrease the global percentage setting.
- To adjust an individual Program, press **Program Select** to choose the desired Program (if necessary).

Delay Watering


Suspend watering for up to 14 days.

 Turn the dial to **AUTO RUN**, then press and hold +

- Press – or + to set the DAYS REMAINING. The next watering day will update on the display to indicate when watering will resume.




- To cancel a Rain Delay, set the DAYS REMAINING back to 0.

 **NOTE:** When the delay expires, automatic irrigation resumes as scheduled.

Permanent Days Off

Prevent watering on selected days of the week (for Odd, Even or Cyclic programming only).

 Turn the dial to **RUN DAYS**.

- Press **Program Select** to choose the desired Program (if necessary).
- Press and hold **Program Select**.
- Press **-** to set the selected (blinking) day as a Permanent Day Off or press **+** to leave the day **ON**.

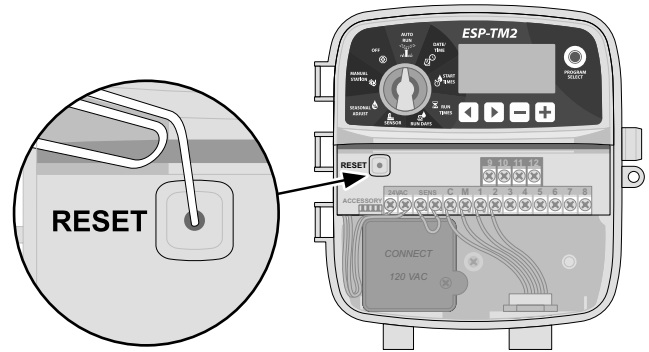


Options

Reset Button

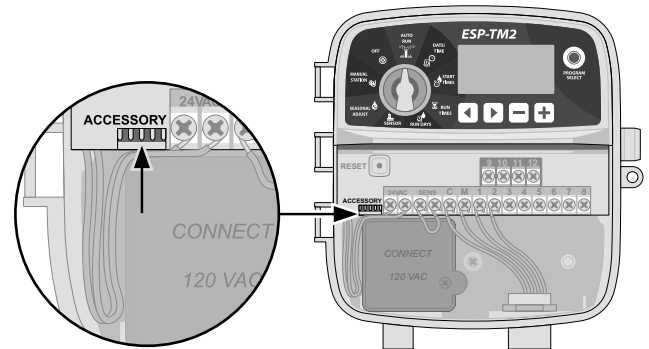
If the controller is not working properly, you can try pressing **RESET**.

- Insert a small tool such as a paper clip, into the access hole and press until the controller is reset. All previously programmed watering schedules will remain stored in memory.




Remote Accessories

A 5 pin accessory port is available for Rain Bird approved external devices.



Troubleshooting


Watering Issues


Problem	Possible Cause	Possible Solution
Watering icon on the display is flashing, but the system is not watering 	Water supply issue.	Verify there is no disruption to the main water line and that all other water supply lines are open and functioning.
	Wiring is loose, not properly connected or damaged.	Check that wiring is securely connected at the controller and in the field. Check for damage and replace if necessary. Check wiring connections and replace with watertight splice connectors if needed.
Automatic and/or Manual Watering will not start	Connected rain sensor may be activated.	Let the rain sensor dry out or else disconnect it from the controller terminal block and replace it with a jumper wire connecting the two SENS terminals.
	Jumper wire connecting the two SENS terminals may be missing or damaged.	Jumper the two SENS terminals on the controller terminal block by connecting them with a short length of 14 to 18 gauge wire.
	Solenoid or master valve is shorted.	Confirm short message on the display. Correct the issue in the wiring. Clear the message by testing watering at the shorted valve or by pressing the ► button.
Excessive watering	Programs may have multiple start times that were set unintentionally	Programs (A, B or C) only require a single start time in order to run. Separate start times are not required for each valve.

Electrical Issues


Problem	Possible Cause	Possible Solution
Display is blank.	Power not reaching the controller.	Verify the main AC power supply is securely plugged in or connected and working properly.
		Verify the orange power supply wires are connected to the controller "24 VAC" terminals.
Display is frozen and controller will not accept programming.	An electrical surge may have interfered with the controller's electronics.	Unplug the controller for 2 minutes, then plug it back in. If there is no permanent damage, the controller should accept programming and resume normal operation.
		Press and release the RESET button.


Safety Information

 **WARNING:** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacity, or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

 **WARNING:** Special precautions must be taken when valve wires (also known as station or solenoid wires) are located adjacent to, or share a conduit with other wires, such as those used for landscape lighting, other "low voltage" systems or other "high voltage" power.

Separate and insulate all conductors carefully, taking care not to damage wire insulation during installation. An electrical "short" (contact) between the valve wires and another power source can damage the controller and create a fire hazard.

 **WARNING:** All electrical connections and wiring runs must comply with local building codes. Some local codes require that only a licensed or certified electrician can install power. Only professional personnel should install the controller. Check your local building codes for guidance.

 **CAUTION:** Use only Rain Bird approved accessory devices. Unapproved devices may damage the controller and void warranty.

For a list of compatible devices go to: www.rainbird.com

Disposal of Electronic Waste



In compliance with European Directive 2002/96/CE and EURONORM EN50419:2005, this device must not be thrown away with household garbage. This device must be the object of an appropriate, selective removal procedure in order to recuperate it.

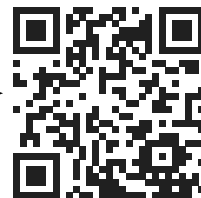


NOTE: Date and time are retained by a lithium battery which must be disposed of in accordance with local regulations.

Questions?

Scan the QR code →

to visit www.rainbird.com/esptm2 for help setting up and operating the Rain Bird ESP-TM2 Controller



Call Rain Bird toll free Technical Support at **1-800-724-6247** (USA and Canada only)



FCC Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by Rain Bird Corporation could void the user's authority to operate the equipment. This product was FCC certified under test conditions that included the use of shielded I/O cables and connectors between system components. To be in compliance with FCC regulations, the user must use shielded cables and connectors and install them properly.
- This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.
Cet appareil Numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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