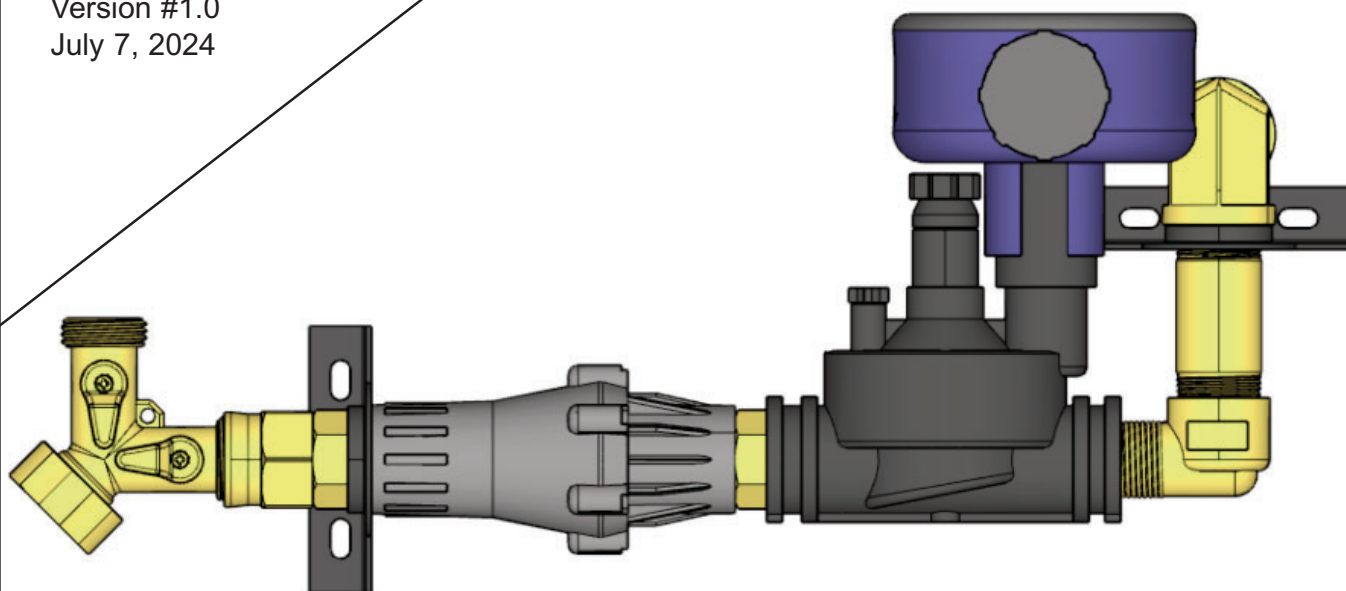




RAISED GARDEN BED AUTO-WATERING SYSTEM

Stock Code:
RBH20

Version #1.0
July 7, 2024



CONTACT

ADDRESS

9393 287th Street,
Maple Ridge, British Columbia,
Canada, V2W 1L1

PHONE & FAX

Toll Free: 1-888-658-1658
Fax: 604-462-5333

ONLINE

Email: olmsupport@outdoorlivingtoday.com
Web: www.outdoorlivingtoday.com

IMPORTANT INFORMATION

1. Proper Installation and Use

Our products are designed for use based on proper installation on level ground and normal residential use. To ensure optimal performance and longevity, please follow the instruction manual provided during the assembly process. Be sure to retain the manual for future maintenance purposes.

2. Site Preparation Responsibility

Customers are responsible for ensuring a solid, level, and well-draining site for construction. A stable foundation is essential for the structural integrity of the product.

3. Compliance with Local Regulations

Before ordering this product, please check with your local municipal or county authorities to confirm that it complies with building codes and regulations.

4. Winterizing

- Like all outdoor irrigation systems, your H₂O unit must be winterized each year. The best way to do this is to remove the timer unit by undoing the unions that are under the mounting straps. Undo coil hose and bring it and the timer indoors. Next, blow out all the water lines and hoses with compressed air. Failure to do so may cause components to crack.

5. Wind Conditions and Secure Installation

- In areas with high or gusty wind conditions, it is crucial to install the structure securely to the ground.
- Regular maintenance is essential to ensure that screws, doors, windows, and other parts remain tightly affixed.

6. Liability and Customer Support

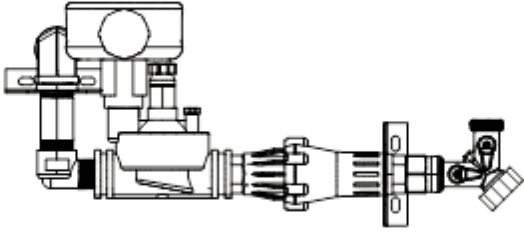
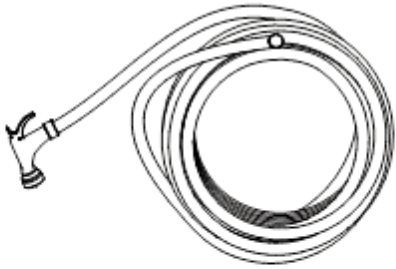
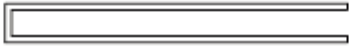


- Customers agree to hold Outdoor Living Today and any Authorized Dealers free of any liability for improper installation, maintenance, and repair.
- In the event of a missing or broken piece, contact the Outdoor Living Today Customer Support Line at 1-888-658-1658 within 30 days of delivery. Replacement parts will be couriered free of charge within 10 business days.
- All structures purchased from Outdoor Living Today are covered for one year against defects in manufacturing and workmanship. Costs incurred for customer installations are not included.

7. Warranty Considerations

- Failure to use the supplied parts included in this kit could result in poor product performance and may void your warranty.
- If you plan to deviate from our written instructions, please contact Outdoor Living Today's Customer Toll-Free Line for guidance.

Thank you for purchasing our Raised Bed Auto Watering System
Please take the time to identify all the parts prior to assembly.

PARTS

PART DRAWING	QUANTITY	PART NAME
	1	H2O Unit
	1	Sprayer Hose
	25	Earth Staples
	1	Soaker Hose
	1	Hose Hook

HARDWARE KIT (PROVIDED)

3/4" Black Head Screw	x 6
-----------------------	-----

TOOLS REQUIRED (NOT PROVIDED)

Screw Gun/Drill	Tape Measure	1/8" Drill Bit
-----------------	--------------	----------------

SAFETY EQUIPMENT REQUIRED (NOT PROVIDED)

Safety Glasses	Work Gloves
----------------	-------------

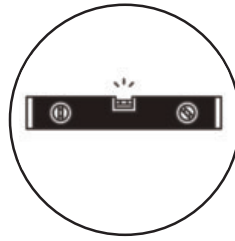
HELPFUL TIPS FOR ASSEMBLY



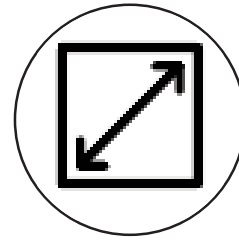
Follow Symbols



Have Helper



Build on Level
Foundation



Check
Measurements
are Square

SYMBOLS

Throughout this assembly manual, symbols are provided at the top right-hand corner of the assembly step:



Use Help

Use help where this is shown. Two or more people are required to safely complete this step. To avoid injury or damage to the assembly, make sure to get some help.



Pre-Drill

Pre-drill a pilot hole before fastening screw or lag to prevent splitting of wood.



Use a Measuring Tape

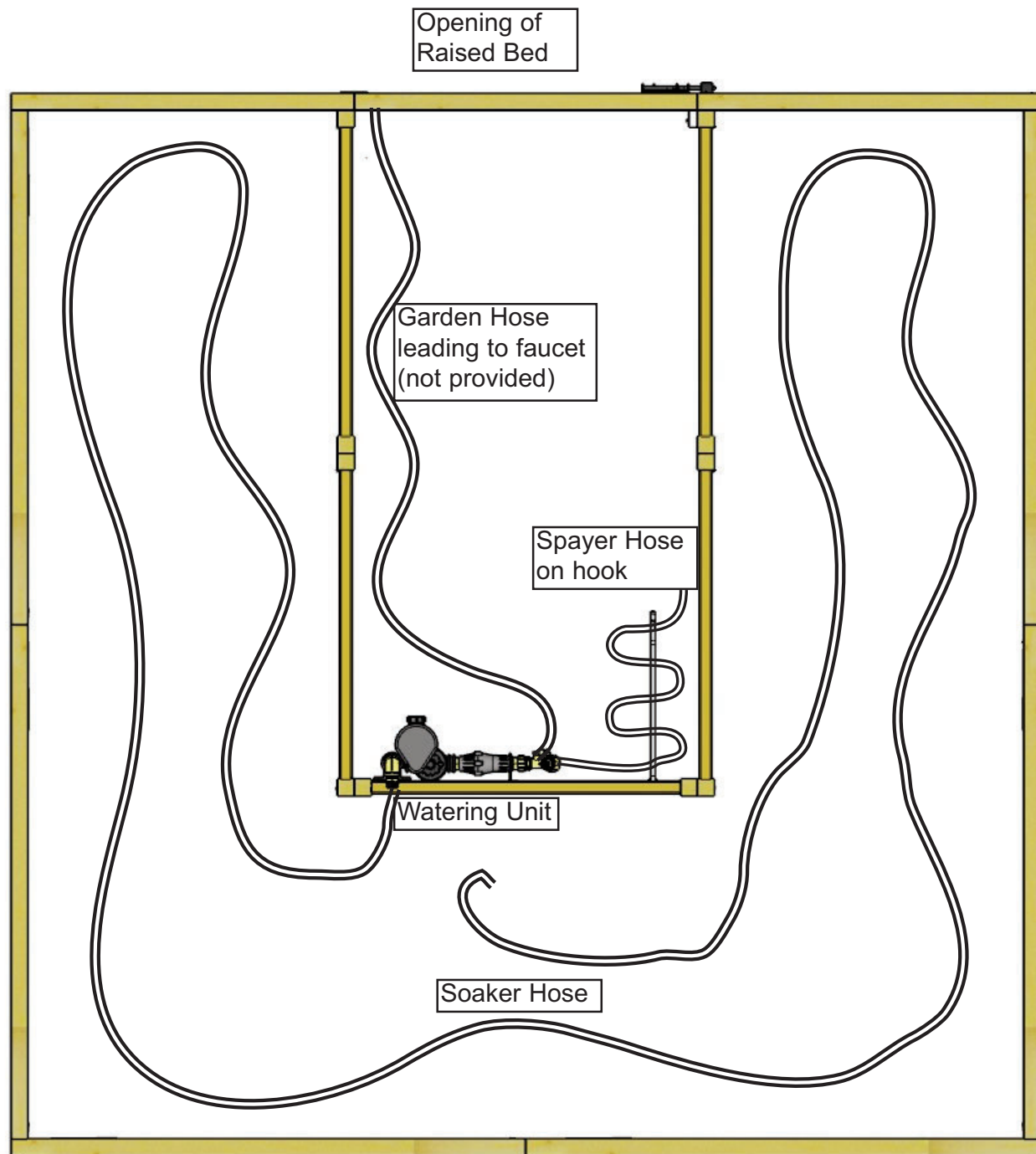
Use a measuring tape to assure proper location.



Use a Clamp

Use a clamp to help fasten parts together.

1. Planning



1. Decide where you would like to install your Auto-Watering system. We recommend installing it in the “U” of your garden bed. If you would like to install on the outside of your garden bed you will need to drill some holes to get the soaker hose through the panel wall.



2. Position the Auto Watering System inside the “U” of the garden bed. The 90° bend on the right side of the unit should peek over the inside wall of the panel. This is where the soaker hose will be connected.

Pieces:

- 1x Auto Watering System

Hardware:



3. Pull the top blue section of the digital timer off of it's stand. Position the Pipe Stay at the top of the panel. Rotate the unit counter clockwise while maintaining the position of the pipe stay to attach pipe stay top panel. Pre drill the holes with a 1/8" bit to avoid splitting. Fasten pipe stay to raised bed panel with 2 - 1" Black Headed Screws"

Pieces:

- 1x Auto Watering System

Hardware:

- 2x 1" Black Headed Screws



4. With one pipe stay secured, make sure the unit is level. Pre-drill the holes with a 1/8" bit to avoid splitting. Fasten the second pipe stay to the panel with 2 - 1" Black Headed screws to secure the unit to the garden Bed.

Pieces:

- 1x Auto Watering System

Hardware:

- 2x 1" Black Headed Screws



Once finished your unit should be secured as shown above.



6. Place the digital timer back on it's stand, while tucking the cable underneath the 90° bend.

Pieces:
- 1x Auto Watering System

Hardware:



7. Connect the Soaker Hose to the 90° bend on the Auto-Watering System. Run your soaker hose along the top of your garden bed so it will drip into where your plants are growing.

Pieces:
- 1x Soaker Hose

Hardware:



8. Connect your Garden hose to the inlet of the “Y” connector in the Auto-Watering Sytem.

Pieces:
- 1x Garden Hose

Hardware:



9. Connect the Sprayer Hose to the remaining outlet in the “Y” Connector.

Pieces:
- 1x Garden Hose

Hardware:



10. Connect the Hose Hook to the inside of the garden bed where you would like to hang the sprayer hose. Pre drill the panel with a 1/8" bit to avoid splitting, and fasten with 2 - 1" Black Headed Screws

Pieces:
- 1x Hose Hook

Hardware:
- 2x 1" Blackheaded Screws



11. Hang up the Sprayer Hose and Open the Digital Timer. Unscrew the knob at the bottom of the keypad and install 2x AA Batteries.

Pieces:
- 1x Hose Hook

Hardware:







10. Connect the Hose Hook to the inside of the garden bed where you would like to hang the sprayer hose. pre drill the panel with a 1/8" bit to avoid splitting, and fasten with 2 - 1" Black Headed Screws

Pieces:
- 1x Hose Hook

Hardware:

7. PROGRAMMING

The RBC 7000 timer can be programmed to operate on any day of the week, odd days or even days. In cyclical mode, the RBC can also operate from every 1 hour up to every 12 hours or from once a day up to every 30 days. The RBC has four start times per day and durations from 1 minute up to 5 hours and 59 minutes.

This section explains the programming features, and the steps necessary to assign irrigation schedules. To program the timer, use  to select the desired programming mode,  to make the entry flash, and the   buttons to change the value.

NOTE: Only a flashing value can be changed.

NOTE: If the last data entered stops flashing, press  again to resume programming and repeat the steps.

8. SETTING CURRENT TIME AND DATE

The timer can display the time in either a 12- or 24-hour format.

To change the time format from the home screen:

1. Press the  button for three seconds until the  display switches format (AM/PM disappears).









SETTING THE CURRENT TIME AND DATE


To enable the timer to operate properly, the current time and date must be set.

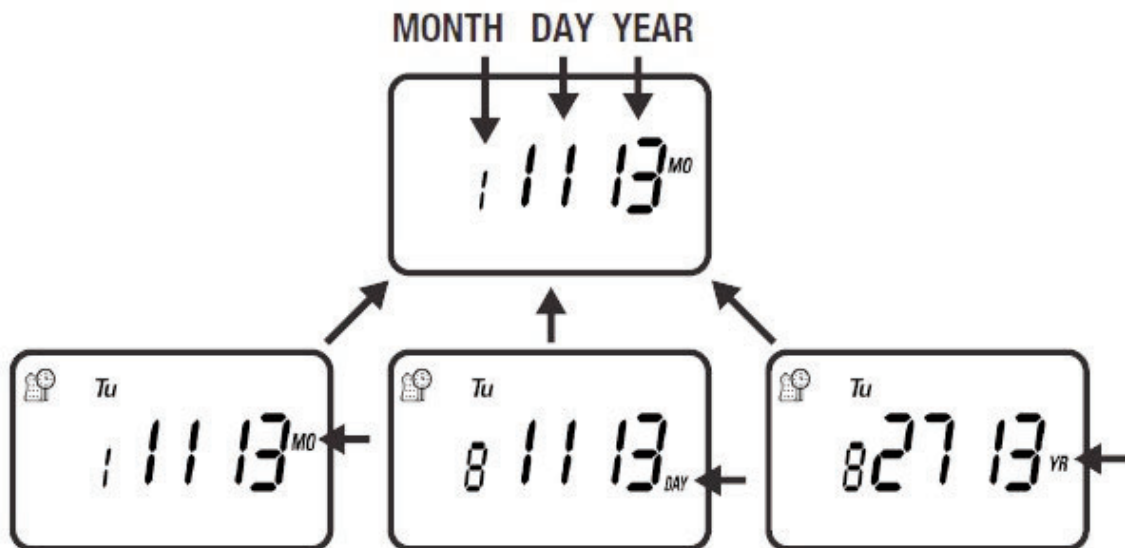
1. Press the  button, until the  icon appears along with the time and the day of the week.



2. If the current time has not been set or needs to be updated, press  and the hour digit starts flashing.
3. To set the current hour, press  or  (note AM and PM designations).
4. To set the minutes, press  again and the minute digit starts flashing. Press  or  to set the current time in minutes.



5. Press  again and repeat the steps to set the current date including, month, day and year. When the date is selected and updated, the day of the week will be updated at the same time to correspond with the date.



Press  to proceed to the next step, SET DAYS  or to review the program.

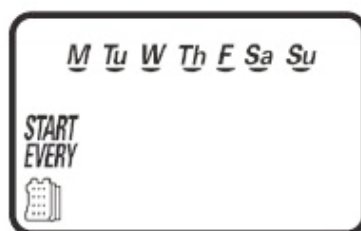
9. SETTING WATERING DAY SCHEDULES







Option 1 – Setting Specific Days of the Week:



This setting determines which days the RBC 7000 timer will operate. Choose either watering on specific days of the week, EVEN/ODD days or cyclical from daily up to once every 30 days. The timer's default setting is to water on all specific days of the week.

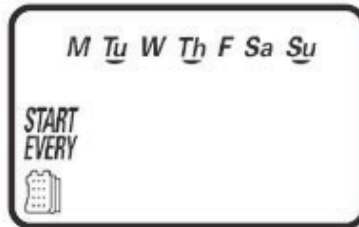
For example, if you want to water every Tuesday, Thursday and Sunday:

1. Press the  button until the  icon and the days of the week appear on the screen.



2. Press  once and **M** (for Monday) starts flashing.
3. Press  and underscore under **M** (Monday) disappears. Monday is de-selected.
4. Press  twice and **W** (for Wednesday) starts flashing.
5. Press  and the underscore under **W** (Wednesday) disappears. Wednesday is de-selected.
6. Press  twice and **F** (Friday) starts flashing.
7. Press  and the underscore under **F** (Friday) disappears. Friday is de-selected.

8. Press  and the underscore under **Sa** (Saturday) starts flashing.
9. Press  and the underscore under **Sa** disappears. Saturday is de-selected.








Press the  button to proceed to the next step, START TIME , or to review the program.

Option 2 – Setting Even or Odd Days:

To select EVEN days or ODD days, refer to the example.

Example: setting the timer to water on ODD days

1. Press the  button until the  icon and the days of the week appear.
2. Press  and  to skip all the days of the week (underscore must be removed beneath all days).
3. Press  and EVEN appears flashing.










4. Press  and ODD appears flashing



5. Press the  button to proceed to the next step, START TIME , or to review the program.

Option 3 – Setting every X hours:

Example: setting the timer to water once every seven hours









1. Press the  button until the  icon and the days of the week appear.
2. Press  and  to skip all the days of the week (underscore must be removed beneath all days).
3. Press  and EVEN appears flashing.
4. Press  again and 1:00 hour appears flashing. To select the number of hours between watering to seven hours, press  until 7:00 appears on the display.



Press the  button to proceed to the next step, START TIME , or to review the program.

Option 4 – Setting every X days:

Example: setting the timer to water once every 10 days:

1. Press the  button until the  icon and the days of the week appear.
2. Press  and  to skip all the days of the week (underscore must be removed beneath all days).
3. Press  and EVEN appears flashing.
4. Press  again and 1 hour appears flashing.
5. Press  again and 1 DAY appears flashing. To select the number of days between watering to 10 days, press  until 10 appears on the display.



In this case, the cycle will start 10 days from the current day:



Note: See section 12 to set start day in cyclical mode.

To set the timer back to specific days mode:

1. Push the  button until – *START EVERY* and the  icon appear at the bottom left of the screen.
2. Push the  until the days of the week appear at the top of the screen.

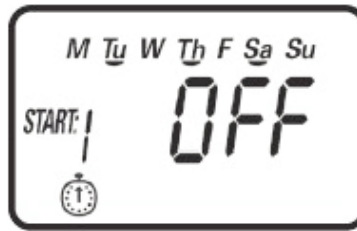
Press the  button to proceed to the next step, *START TIME* , or to review the program.







10. SETTING WATERING START TIMES

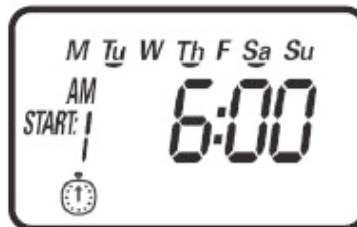
The RBC 7000 smart timer can have up to four separate irrigation start times per day. (Note: if the timer is set to water every X hours, only one start time is available to be programmed.)


To set a start time,

1. Press the  button until the  icon appears. START 1 displays OFF, or the last start time programmed in START 1 appears.



2. Press  and OFF (or the first start time programmed) begins flashing.
3. To set the desired first start time hour (note AM and PM designations), press  or .
4. Press  and the minutes start flashing.
5. Press  or  and set the desired start time minutes.



6. Press  again; the second start time and OFF, or the last start time programmed appear flashing. Repeat the steps to set the second, third, and if needed, the fourth start time. During programming, if you are set to water on specific days of the week, the screen also shows which days the timer will operate with an underline.



To delete a start time:

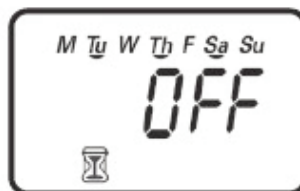
1. Press until START 1 appears.
2. Press until the start time appears that you want to delete (hour digits will be flashing).
3. Press until the word OFF appears.

Press the button to proceed to the next step RUN TIME or to review the program.



11. SETTING WATERING RUN TIME DURATION

This setting determines the length of time the RBC 7000 smart timer will allow the valve to remain open (duration is from 1 minute up to 5 hours and 59 minutes). For example, setting watering run time to 10 minutes on certain days of the week will program the timer to turn the water on for 10 minutes on each of the days chosen and at every start time selected. (Note: if the timer is set to water every X hours, the maximum duration is 59 minutes)


To set the watering run time :





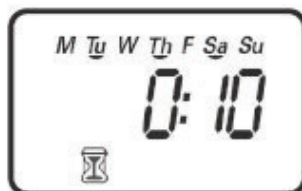
1. Press the button until the icon appears and OFF, or the last run time setting appears. (OFF will appear if duration is set to 0)
2. Press the button and 0:05 (or the last run time programmed) appears.

3. To set a desired watering run time in hours, press  or  and select the number of hours.





4. If only watering duration in minutes is required, press  to skip the hour digit, and the minutes will start flashing.

5. To set the desired watering duration in minutes (example of 10 minutes), press  or  to select minutes. When programming the watering duration, if you are set to water on specific days of the week, the screen will also show the days the timer will operate with an underline.



At this point the controller's normal programming is concluded.

Press the  button to proceed to the next step, RAIN DELAY , or to review the program or to exit.

12. SETTING RAIN DELAY – OPTIONAL FEATURE

The Rain Delay setting is used to temporarily suspend all irrigation for a defined number of days. For example, during rainy weather, regularly scheduled programs can be turned off from 1-99 days. At the end of the designated period, regularly scheduled programming will resume automatically.

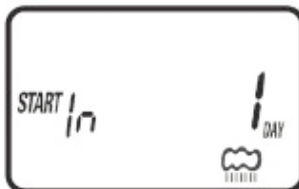
To set a temporary suspension of the program:



1. Press the  button until the  icon and OFF appear.



2. Press the  button and OFF starts flashing.

3. To set the desired temporary suspension of the program (1-99 days), press  or .



4. The temporary suspension of the program can be cancelled at any time by re-entering Rain Delay screen and changing the setting to OFF. (Press  or  until OFF appears.)

Note: OFF appears in between a numeric value of 99 and 1.

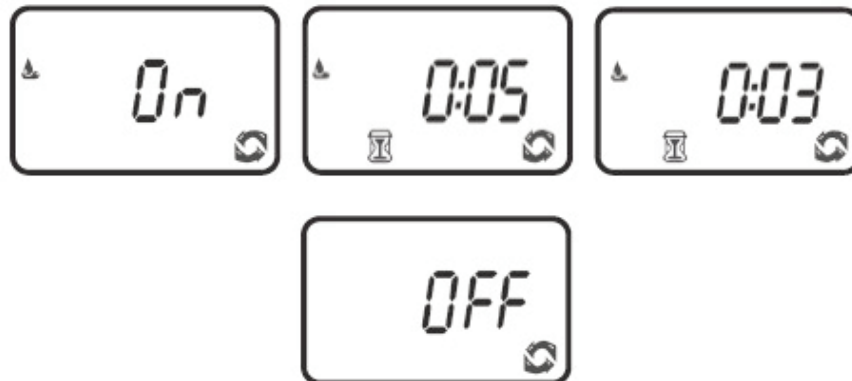
Press the  button to review the program or to exit.


13. MANUAL WATERING

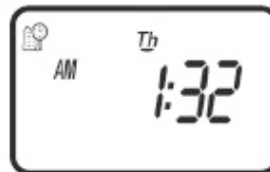
The manual mode allows the user to test the system and water for a specified run time set in watering duration. The timer will automatically stop watering at the end of the defined irrigation period. The originally programmed irrigation schedule continues to function at the assigned times. The sensor condition is disregarded in this mode.

To start a manual run:

1. Press the  button, and the  icon and  icon appears. ON appears momentarily and then the last watering duration is displayed with  . The timer will open the valve, and in five seconds a count down of the remaining irrigation duration will appear, showing when the timer will close the valve.



2. Press the  button to end manual run.
3. After five seconds, the display will revert to the current time screen.



To activate a manual watering without the use of the timer, turn the solenoid a 1/4" turn counterclockwise. To stop, tighten the solenoid clockwise by hand only—do not over tighten (figure 9).

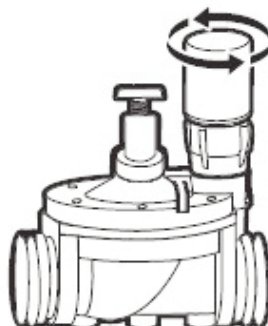





FIGURE 9

16. MAINTENANCE, TROUBLESHOOTING AND REPAIRS

To restore the timer to the **default** settings:

1. Press the  button until **START EVERY** is displayed and the  icon appears on the bottom left of the screen.
2. Press and hold down the  for three seconds.
3. The screen returns to the home screen (clock) and all the default settings are restored. The current time and date are retained.

PROBLEM: Timer fails to open automatically or manually

CAUSE: No water pressure

SOLUTION: Open main water supply valve

CAUSE: Flow control knob is turned down

SOLUTION: Turn flow-control knob counter-clockwise to open

PROBLEM: Valve/actuator functions via the manual mode but not automatically

CAUSE: Timer is set to OFF mode

SOLUTION: Verify that the timer does not show OFF in current time mode

CAUSE: AM/PM not set correctly in current time mode

SOLUTION: Check current time, change AM/PM if necessary

CAUSE: AM/PM not set correctly in start time mode

SOLUTION: Check start time(s), change AM/PM if necessary

CAUSE: Rain delay is preventing watering

SOLUTION: Set rain delay to off

CAUSE: Yellow sensor wires have been cut

SOLUTION: Re-connect sensor wires together with waterproof connector

CAUSE: Sensor is installed and is in a state that prevents watering

SOLUTION: Check sensor and wire splices and verify sensor is normally closed

PROBLEM: The display is blank

CAUSE: No buttons have been pushed in the previous 15 minutes

SOLUTION: Push any button

CAUSE: No batteries are installed

SOLUTION: Install two new AA alkaline batteries

PROBLEM: Valve fails to close

CAUSE: Solenoid is loose

SOLUTION: Tighten solenoid by turning it clockwise to the right

CAUSE: Valve is installed backwards

SOLUTION: Check flow arrow and verify arrows points away from water source—reverse valve if necessary

CAUSE: Debris is blocking solenoid port

SOLUTION: Shut off water supply, unscrew and remove solenoid, then open water supply and flush out solenoid port; re-install solenoid

CAUSE: Flow control knob is too far open

SOLUTION: Turn flow control knob clockwise and retest

CAUSE: Drip system flow rate is below minimum flow rate

SOLUTION: Increase system flow rate by adding or changing drippers

PROBLEM: Rain sensor does not prevent watering

CAUSE: Rain sensor is normally open, malfunctioning, or not wired correctly

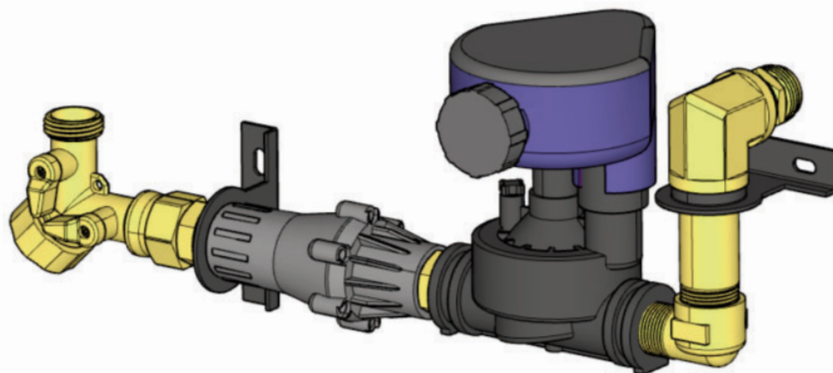
SOLUTION: Verify that sensor icon appears on display when pin is pushed down and check all wire splices

PROBLEM: Timer waters more than once per day

CAUSE: More than one start time has been programmed

SOLUTION: Change start time 2, 3, and 4 to OFF

Note: Our Sheds are shipped as an unfinished product. If exposed to the elements, the lumber will weather to a silvery-gray color. If you prefer to keep the lumber looking closer to the original color, we suggest that you treat the wood with a good oil base wood stain. You may also wish to paint your new shed rather than stain it. In both cases we recommend that you consult with a paint and stain dealer in your area for their recommendations.



Congratulations on assembling your Auto-Watering System

We hope your experience constructing our **Auto Watering System** has been both positive and rewarding. We value your feedback and would like to hear back from you on how well we are doing in the following areas:

1. **Customer Service**
2. **On Time Shipping**
3. **Motor Freight Delivery**
4. **Quality of Materials**
5. **Assembly Manual**
6. **Overall Satisfaction**



The materials contained in this Assembly Manual may be downloaded or copied provided that ALL copies retain the copyright and any other proprietary notices contained on the materials. No material may be modified, edited or taken out of context such that its use creates a false or misleading statement or impression as to the positions, statements or actions.

Please call, write or email us at:

Canadian Address
9393 287th Street
Maple Ridge, British Columbia
Canada V2W 1L1

United States Address
P.O. Box 96
Sumas, Washington
USA 98295

Toll Line: 1.888.658.1658 | **Fax: 1.604.462.5333** | **sales@outdoorlivingtoday.com**