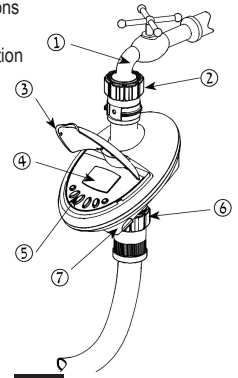
1. PARTS IDENTIFICATION

Hose-End Controller

1. Female swivel hose thread faucet / tap adapter
2. Interior filter
3. Top cover
4. Controller display
5. Programming and operation buttons
6. Male hose thread connection
7. Battery compartment



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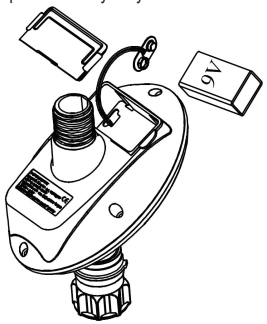
2. BATTERY INSTALLATION

1. Hold the controller with the battery compartment facing you.
2. Remove the battery compartment cover.
3. Connect one 9V battery to the battery connector.
4. Insert battery and replace battery cover.

Note: When changing the battery, make sure the battery compartment stays dry.

Use alkaline batteries only.



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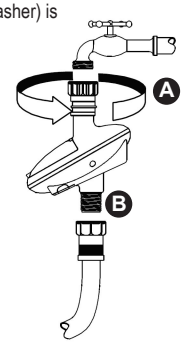
3. CONTROLLER INSTALLATION

1. Make sure the filter (washer) is in place.
2. Screw the controller to the faucet / tap by attaching the female swivel hose-thread connector (A) to the faucet or hose-end. Turn it clockwise (hand-tighten only).
3. Connect the male hose-thread connector (B) to the hose.



4. IRRIGATION PROGRAMMING

This section contains an example of a weekly irrigation program. Simply alter start times and run times to meet your irrigation requirements.

The controller is programmed with 4 buttons:

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- Programming step – used to select the appropriate programming mode (e.g., set clock).
- Parameter selection – used to select the field to be changed (e.g., hour, minute, etc.). The field to be changed must be blinking in order to have its value changed.
- Data increment (increase) – used to raise the value of the selected field (e.g. add minute to run-time)
- Data decrement (decrease) – used to lower the alue of the selected field (e.g. reduce run-time by a minute).

If no changes are implemented, the controller display always reverts to the main screen (clock).

Display digits stop blinking after 40 seconds of inactivity. If the last field stops blinking before you have completed the programming process, press ⇨ to return to the process.

Emergency irrigation: After inserting batteries, if no buttons are pressed, the clock will blink continuously. After ten minutes, the controller will implement a 5-minute irrigation cycle every 24 hours.

SETTING CURRENT TIME & DAY OF THE WEEK

Setting the Clock

To enable the irrigation controller to operate the irrigation system at desired times, the current time and day of the week must be set as shown below:

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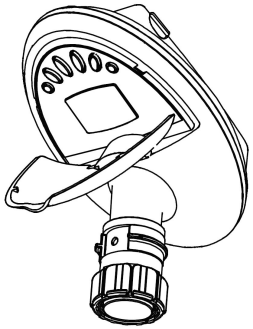
TORO®

53454 *Bluetooth*®
Hose-End Timer
Installation & Operating Instructions

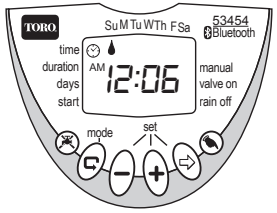


1. Press ⊏ several times until 🕐 appears.
2. Press ⇨. The hour digits blink. Set the current hour with the + and – buttons.
3. Press ⇨. The minute digits blink. Set the current minute with the + and – buttons.

Setting the Day of the Week

1. Press ⇨ until a blinking 💧 appears at the top of the display.
2. Use ⊕ and ⊖ to select the correct day of the week.
3. Press ⊏ when done.

NOTE: To toggle between a 12-hour and 24-hour clock display, press the ⊕ and ⊖ buttons simultaneously after the time has been set.



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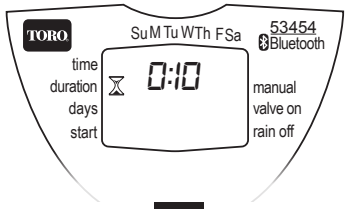
PROGRAMMING A WEEKLY IRRIGATION SCHEDULE

(Set Days of the Week to Irrigate)

Let us assume that we want to irrigate three times a day at 8am, 1pm, and 7pm, for ten minutes each time on Tuesdays and Fridays.

SETTING DURATION OF IRRIGATION

1. Press ⊏ until ⧗ appears next to "duration" on the faceplate.
2. Press ⇨. The hour digits will blink.
3. Use ⊕ or ⊖ to change the watering duration in hours. For our example above, that would be zero.
4. Press ⇨. The minutes digit will blink.
5. Use ⊕ or ⊖ to change the watering duration in minutes. For our example above, that would be ten.



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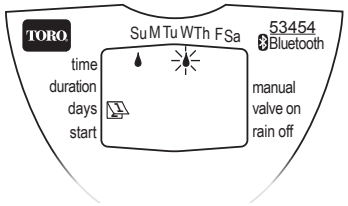
PROGRAMMING IRRIGATION DAYS

1. Press ⊏. 📅 appears next to 'days' on the faceplate.
   If you are programming the controller for the first time, the display will initially read OFF.
2. Press ⇨. A 💧 will blink under 'Su' (Sunday) on the display. Use ⇨ to position the 💧 under 'Tu' (Tuesday). Press ⊕. The 💧 under Tu will become solid. A new blinking drop will appear under 'W'. Use ⇨ to position the 💧 under 'F' (Friday). Press ⊕ again.



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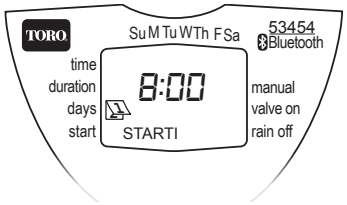
SETTING IRRIGATION START TIME/DATE

1. Press ⊂. START I will appear on the display. Press ⊃. The hour digits will start blinking.
2. Using ⊕ or ⊖, set the start time to 8:00 AM (note the AM/PM indicator).
3. Press ⊂ to switch to START II. Repeat step 2. Set to 1 PM. Repeat for START III at 7:00 PM.
4. Press ⊂. START IV will appear on the display. Press ⊃. The hour digits will blink.
5. Press ⊕ or ⊖ until the word OFF appears. The fourth irrigation start is canceled.



SETTING A CYCLICAL IRRIGATION PROGRAM

Let us assume that we want to program the irrigation controller to open the valve at 10:45AM for a period of 1.5 hours, once every three days, starting on Tuesday. Before setting a cyclical irrigation program, you must clear irrigation days until the word OFF appears.

Setting Irrigation Duration:

1. Press ⊂ until ⧗ appears next to 'duration'.
2. Press ⊃. The hour digits will start blinking. Press ⊕ or ⊖ until hour digit changes to 1.
3. Press ⊃. The minute digits blink. Press ⊕ or ⊖ until minute changes to 30.
4. Press ⊂ to accept changes.

SETTING IRRIGATION CYCLE

1. Press ⊂ until ☂ appears and the word OFF appears on the display.
2. Press ⊃ until OFF blinks.
3. Press ⊕ until 3 DAYS appears on the display. The digit 3 should be blinking.
4. Press ⊂ to accept changes.

SETTING IRRIGATION START TIME/DATE

1. Press ⊂. START will appear.
2. Press ⊃. Hour digits will blink.
3. Use ⊕ or ⊖ to change the hour digits to 10AM.
4. Press ⊃. The minute digits will blink.
5. Use ⊕ or ⊖ to change minute to 45.
6. Press ⊃ once. The 💧 will blink.
7. USE ⊕ or ⊖ to shift 💧 under 'Tu' (Tuesday).

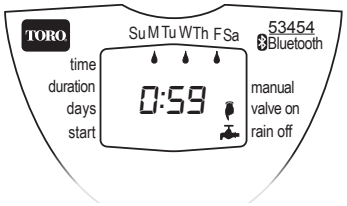
Note: In a cyclical program, the irrigation days are likely to vary from week to week due to cycle length. If you wish to change the irrigation program to a weekly program, you must set the cycle to OFF mode.

MANUAL OPERATION

This option operates the valve for the defined irrigation period. The valve will close automatically at the end of the irrigation period. Note that the programmed irrigation schedule will to continue to function at the set times.

Operation:

Press 🔧. 🚰 will appear next to the word 'manual'. 🚰 will appear underneath it. Irrigation will run for the amount of time shown on the display.



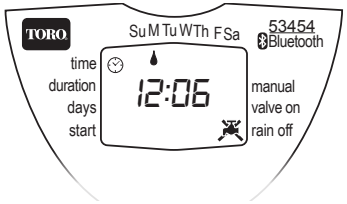
IRRIGATION CONTROLLER SUSPENSION

This option is used to temporarily suspend irrigation controller operation (e.g., when it is raining). The irrigation schedule remains in the controller's memory but will not irrigate until the suspension is canceled.

To suspend irrigation: Press 🚰 for three consecutive seconds until the 🚰 appears.

To cancel the suspension: Press 🚰 for three consecutive seconds to return irrigation schedule to normal operation. The 🚰 will disappear.

During suspension, manual operation is not possible.



BLINKING LOW BATTERY WARNING

A blinking battery icon 🔋 appears on the display when the batteries are low. At this point, the battery still contains a limited amount of energy for valve operation. The battery should be replaced promptly. If the battery is not replaced, the irrigation controller will continue to open the valve eight (8) times according to the programmed schedule. It will then suspend the program and the word OFF will appear on the display.

Program data will be retained for thirty seconds while changing the battery.

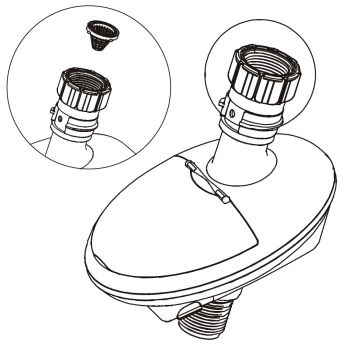
MISSING DEFINITION IN IRRIGATION PROGRAM

'noPr' will appear when programming irrigation days if no irrigation days have been specified (see Programming a Weekly Irrigation Schedule). In this case, the valve cannot be opened during manual operation.

MAINTENANCE

Battery: Remove the battery if the irrigation controller will not be used for a prolonged period. (The life span of a 9V battery is typically a year.)

Filter: The controller contains an internal filter which should be removed and cleaned every few months to maintain optimal irrigation flow.



WARRANTY

The hose-end controller is covered by this warranty for a period of one year from the date of installation.

Neither Toro nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of equipment, including but not limited to: vegetation loss, the cost of substitute equipment or services required during periods of malfunction or resulting non-use, property damage or personal injury resulting from installer's actions, whether negligent or otherwise. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

All implied warranties, including those if merchantability and fitness for use, are limited to the duration of this express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

FCC NOTICE

This device complies with FCC rules Part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference that may be received, including interference that may cause undesirable operation. This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instruction, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a FCC Class B computing device in accordance with the specification in subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that the interference will not occur in a particular installation.

If this equipment does cause 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 one or more of the following measures:

(1) Reorient or relocate the receiving antenna.

(2) Increase the separation between the equipment and receiver.

(3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

(4) Consult the dealer or an experienced radio or television technician for assistance. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-00345-4m.

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