

INSTALLATION

GENERAL INFORMATION

- Location:
 - Choose a spot where water drains away from house and window wells.

Warning: For outdoor use in cold water only.
- Plumbing Codes:
 - Follow all watering and back-flow (anti-siphon) prevention codes.
- Specifications:
 - Water pressure: Min. 10 psi/Max. 80 psi working pressure
 - Working Temperature: Min. 32 degrees F/Max. 167° F
 - Storage Temperature: Min. -22 degrees F/Max. 185° F
 - Electrical: Three AA 1.5-volt alkaline batteries
- Installing the Batteries:
 - Remove timer cover and slide battery compartment cover off in the direction of arrow.
 - Install three AA 1.5-volt alkaline batteries. Slide compartment cover back into place.
 - Check the timer periodically for low voltage. When the battery power drops below the safety zone, the "Low Battery" indicator appears on the display. Replace the batteries with new fully-charged batteries when this appears. If old batteries are not replaced before they run out, all controls will be disabled.
- Replace the timer cover.

INTRODUCTION

Thank you for selecting a quality Orbit® timer. You will enjoy many years of satisfactory service if proper installation and care is observed.

The Orbit timer keeps your yard beautiful whether you are at home or away. Orbit gives you convenience and flexibility, letting you use an automatic watering program or override the automatic program for special watering needs.

The Orbit Timer provides up to 3 start times per day with watering periods from 1 to 99 minutes per start time. For ease of use, the User's Guide has step-by-step instructions for installation, set up and operation. Please read the guide completely before installing, programming and operating.

Note: Use only with three 1.5-volt (AA) alkaline batteries.

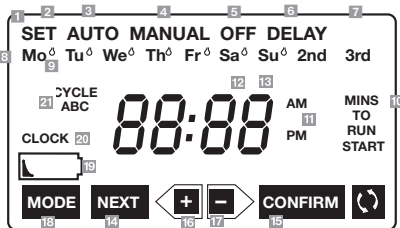


FIGURE 1

KEY PAD AND DISPLAY

- Indicates different mode settings for programming.
- Select to set day of the week, to set clock time, to set watering days(s), to set watering station and duration and to set start times.
- Select to use automatic watering mode.
- Select to enable watering manually.
- Select to suspend watering and turn off all stations.
- Select to postpone watering for up to 24 hours.
- Indicates the number of hours remaining on the Delay.
- Indicates current day of the week and the set days for watering.
- Indicates which days are selected for watering.
- Indicates the duration that each station will water.
- Indicates A.M. or P.M. for clock and start time.
- Indicates the time to begin watering.
- Indicates clock, start time and watering duration.
- Push to select or unselect a setting.
- Push to confirm a new setting and advance to the next setting.
- Push to increase numeric setting or advance a setting.
- Push to decrease numeric setting or retract a setting.
- Push to cycle through the different mode settings.
- Indicates low battery, or that batteries need to be replaced.
- Indicates that the setting of the clock and day of the week is in process.
- Indicates which watering cycle is active or being set.
- One pinhole "Reset" button: Push to reset all programs and settings.

PROGRAMMING

SET CLOCK TIME AND DAY OF WEEK

- Push the indented RESET area to erase the current settings.
- Push MODE button to select SET. The word SET will blink to indicate that it is selected.
- Push CONFIRM button to begin the set mode. The word CLOCK will appear to indicate the time/day setting is active.
- Push ◀ or ▶ button to select the current day of the week. The day selected will flash.



FIGURE 2

- Push CONFIRM button to accept the day setting and advance to set the clock time. The current time with A.M. or P.M. will flash.
- Push + or - button to select the correct current time.
- Push CONFIRM button to accept the time setting and advance to set watering days.

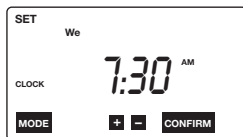


FIGURE 3

- Push MODE button to return to Mode Selecting.

NOTE: When no button has been pressed for 1 minute, AUTO mode will automatically switch on to the programmed settings.

SET WATERING DAYS

Your Orbit timer allows you to choose the days of the week for watering. You can water every day, only certain days or every 2nd or 3rd day.

- Push MODE button to select SET. The word SET will blink to indicate that it is selected.
- Push CONFIRM button to begin the set mode.
- Push CONFIRM button two more times to move past the time/day setting. The days of the week will be flashing.



FIGURE 4

- Push ◀ or ▶ button to advance to the next day, or to the 2nd and 3rd day settings.
- When chosen day(s) are flashing, push the () key to toggle the rain drop (insert raindrop) on/off. The rain drop indicates the day(s) chosen for watering.
- When the watering days are chosen, push NEXT button to advance to set watering duration.

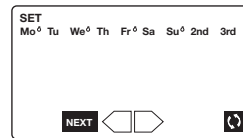


FIGURE 5

NOTE: If you choose to only water at intervals of every 2nd or 3rd day, you cannot set specific days of the week for watering. When no button has been pressed for 1 minute, AUTO mode will automatically switch on to the programmed settings.

SET DURATION AND START TIME FOR WATERING

The Orbit timer allows you to set the duration and start time for watering in each of three watering cycles.

- Push MODE button to select SET. The word SET will blink to indicate that it is selected.
- Push CONFIRM button to begin the set mode.
- Push CONFIRM button two more times and NEXT button once to move past the time/day setting and the watering days. MINS TO RUN will show with two digits or "- " flashing.



FIGURE 6

- Push + or - button to set the duration desired for watering, from 1 to 99 minutes.
- Push CONFIRM button to confirm the duration and advance to set start time.
- There are three unique start times, or cycles, that can be set: CYCLE A, CYCLE B and CYCLE C. Each cycle will appear on the screen to specify which one is to be set.

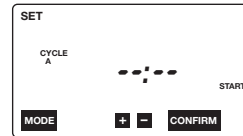


FIGURE 7

- Push + or - button to set the start time for CYCLE A.
- Push CONFIRM button to accept this time and advance to set CYCLE B.

- Push + or – button to set the start time for CYCLE B.
- Push CONFIRM button to accept this time and advance to set CYCLE C.
- Push + or – button to set the start time for CYCLE C.
- Push CONFIRM button to accept this time and return to Mode Selecting.

NOTE: When no button has been pressed for 1 minute, AUTO mode will automatically switch on to the programmed settings.

AUTOMATIC WATERING

Once watering days, duration and start times are programmed, the Orbit® timer will begin watering automatically.

- Push MODE button to select AUTO. The word AUTO will blink to indicate that it is selected.
- Push CONFIRM button to begin the auto mode. The timer is now ready to begin watering automatically.



FIGURE 8

- When watering begins, MINS TO RUN will alternate with the current time and day to indicate the time left on current cycle.
- In this mode, the unit executes any programmed schedule or default schedule.
- In this mode, extra (Manual) watering is ceased.
- In this mode, Delay mode is canceled.

NOTE: When no button has been pressed for 1 minute, AUTO mode will automatically switch on to the programmed settings.

MANUAL (EXTRA) OPERATION

The manual setting does not alter the automatic settings during or after manual use.

- Push MODE button to select MANUAL. The words MANUAL and SET will blink to indicate that they are selected.
- Push CONFIRM button to begin the manual mode. MINS TO RUN will show with two digits or "- -" flashing.
- Push + or – button to set the duration desired for manual watering.

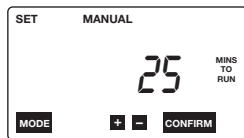


FIGURE 9

- Push CONFIRM button to start the extra watering with selected duration.
- As watering begins, MINS TO RUN will alternate with the current time and day to indicate the time left on manual cycle.
- To discontinue the manual watering mode, push + and – together, and extra watering will end immediately.
- When the extra watering is finished, the unit will resume auto mode.

DELAY WATERING

The Orbit timer allows you to delay automatic watering for 1-24 hours.

- Push MODE button to select DELAY. The word DELAY will blink to indicate that it is selected. The unit will initiate a 24 hour delay.
- Push CONFIRM button to begin delay mode. "24 Hr" will blink and the word DELAY will appear.

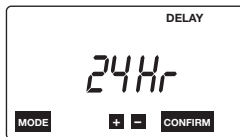


FIGURE 10

- Push + or – button to change the hour delay within 10 seconds after pushing CONFIRM button to begin delay mode. Otherwise, "24 Hr" and the current day and time will alternately blink and the timer will not accept a delay hour change. If this occurs, repeat the previous three instructions.
- Push CONFIRM button to confirm the delay mode for the desired time.
- LEFT will appear to indicate the time remaining on delay.
- To discontinue delay watering, push MODE button.

OFF MODE

In Off Mode, all watering programs are inactive and no watering will occur.

- Push MODE button to select OFF. The word OFF will blink to indicate that it is selected.
- Push CONFIRM button to begin off mode.



FIGURE 11

- While in off mode, the unit will continue to display current time and day.
- To discontinue off mode, push + and – keys together. The unit will resume auto mode.

OFF-SEASON STORAGE AND MAINTENANCE

- Turn the water off at the hose faucet.
- Push MODE button to select MANUAL. The words MANUAL and SET will blink to indicate that they are selected.
- Push CONFIRM button to begin the manual mode. MINS TO RUN will show with two digits or "- -" flashing.
- Push + or – button to set the duration for 1 minute.
- Push CONFIRM button to open valve and relieve pressure to the timer.
- After the valve closes, remove the timer by unscrewing the swivel couplings connecting the timer to the hose faucet and hose.
- Clean and dry the timer and its valve connections.
- Remove the batteries. Clean the contacts in the battery compartment. Apply new battery and terminal protection compound. If the batteries show any sign of corrosion, discard them.
- Store timer in a warm and dry place (avoid freezing).

TROUBLESHOOTING

PROBLEM/POSSIBLE CAUSES

Water does not turn on:

1. Programming is incorrect.
2. Batteries are too weak to operate valve.
3. Pressure is in excess of 80 psi.
4. Hose faucet is turned off.
5. Timer is in the off or delay mode.

Timer display is blank:

1. Batteries are dead.
2. Faulty display.

Timer will not operate manually:

1. Timer is in the off mode.



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