
Introduction

Thank you for selecting an Orbit® sprinkler timer. Orbit® designs have the added safety of mechanical switches with the accuracy of digital electronics enabling you to give a timer that is both easy to program and hard to tamper with. Orbit timers offer flexibility and convenience and functionality, setting you to help automate, semi-automate, or manual watering programs for all your watering needs. Please read this manual completely before you begin to program and use the controller. A host of the most notable design features are:

- At-a-Glance Programming
- All buttons are soft touch and easy to activate
- Large Liquid Crystal Display shows the time of day and indicates many of the programming settings. The display is completely interactive with all other controls
- Program Keys
- 1. Digital Display
- A large LCD Liquid Crystal Display shows the time of day and indicates many of the programming settings.
- 2. Programming Keys
- The large dial makes it easy to see which function is currently selected and/or which mode the timer is in.
- 3. Selector Dial
- The dial button makes the display clear, the time, and user-defined programming possible, but does not remove the factory installed fuseable link. To prevent an accidental short, the fuseable link is removed in the panel and must be replaced with a small permanent fuse, such as one on a panel trip.

Starting to Water:

- To stop a station, press the NEXT key.
- To erase previously programmed watering data at dawn, press the CLEAR key.

Assigning Watering Days for Program A

- To turn the rotary dial to the DAY OF WEEK position, press and hold the CyCLE START key. The cursor will sharpen and show the days under which the program will be scheduled.
- To skip a day, press NEXT. If you enter more than one start time, all stations in the selected program will water on the same day and indicate many of the programming settings.

Assigning Watering Intervals for Program B

- To turn the rotary dial to the DAY OF WEEK position, press and hold the CyCLE START key. The cursor will sharpen and show the days under which the program will be scheduled.
- To skip a day, press NEXT. If you enter more than one start time, all stations in the selected program will water on the same day and indicate many of the programming settings.

Semi-Automatic & Manual Operation

The timer has two programs you can set up to control watering. Program A is used to water all zones on this program. Program B is used to water at specific intervals on odd or even calendar days. The timer has the intelligence to “stack” start times, that is, to turn on stations more than once in a day. The program will water all stations on this program even if the time selected does not correspond to specific stations, but to programs (A or B).

Getting Started

Programming the timer can be accomplished in just a few basic steps. Before you begin programming, it is important to install the batteries first. Batteries last for approximately three years of operation.

Insert two AA batteries into the battery compartment (see illustration below).
- Insert the terminal cover to its closed position.

- Remove batteries when depleted or if product is to be left unused for a long time. The program will be retained in memory and will activate when the batteries are replaced.

- Do not mix alkaline, carbon-zinc, or rechargeable (nickel cadmium) batteries. Weak or mismatched batteries may cause the time and data to be erased after a power failure.

Set the Time of Day and Date

- If this is the first time the timer has been programmed, press the ENTER key to go into the day and month. The date in the display will go into rapid advance mode. Press the – key to move to the year, then press and hold the CyCLE START key until the display shows the current year, month, and date when programming (See Figure 2).

- Press the – and + keys to set the correct time of day. The time of day is viewed in 24 hour format. The time is updated up to one minute after an hour or an AM/PM change.

- Press the – and + keys to see which function is currently selected or which mode the timer is in.

- The timer has two programs you can set up to control watering. Program A is used to water all zones on this program. Program B is used to water at specific intervals on odd or even calendar days.

- To activate the watering interval, press the ENTER key. If an interval of 3 is entered today, the timer will water all stations that are set to water in the specified program. There are not separate start times for each station. Start times do not correspond to specific stations, but to programs (A or B).

- To turn the rotary dial to the DAY OF WEEK position, press and hold the CyCLE START key. The cursor will sharpen and show the days under which the program will be scheduled.

- To skip a day, press NEXT. If you enter more than one start time, all stations in the selected program will water on the same day and indicate many of the programming settings.

- To erase a schedule, press and hold the CyCLE START key. The cursor will sharpen and show the days under which the program will be scheduled.

- To activate the assigned watering duration in the A and B programs for each station, press ENTER.

Using the Semi-Automatic Mode

(Semi-automated mode is always on at both 2 AM and 2 PM) To activate the assigned watering duration in the A and B programs for each station, press ENTER.

- Water durations assigned to station 2 are automatically added to their assigned watering durations in the A program. The mode will add the duration assigned to station 2 to the assigned duration assigned to station 2 in the B program provided that the total assigned duration for station 2 in program A is less than the assigned duration assigned to station 2 in program B.

- To activate the assigned watering duration in the A and B programs for each station, press ENTER.

- To activate the assigned watering duration in the A program, press ENTER. The mode will add the duration assigned to station 2 to the assigned duration assigned to station 2 in the A program provided that the total assigned duration for station 2 in program A is less than the assigned duration assigned to station 2 in program B.

- To activate the assigned watering duration in the B program, press ENTER. The mode will add the duration assigned to station 2 to the assigned duration assigned to station 2 in the B program provided that the total assigned duration for station 2 in program B is less than the assigned duration assigned to station 2 in program A.

- To activate the assigned watering duration in the A program, press ENTER. The mode will add the duration assigned to station 2 to the assigned duration assigned to station 2 in the A program provided that the total assigned duration for station 2 in program A is less than the assigned duration assigned to station 2 in program B.

- To activate the assigned watering duration in the B program, press ENTER. The mode will add the duration assigned to station 2 to the assigned duration assigned to station 2 in the B program provided that the total assigned duration for station 2 in program B is less than the assigned duration assigned to station 2 in program A.

- To activate the assigned watering duration in both the A and B program, press ENTER.
3. Connecting the Transformer

- With the wiring terminal stripped, find the two terminal holes in the transformer. Make sure the hole that is drilled to the left of the transformer is connected to the left output terminal (L), and the right one to the right one (R). These two power leads will be from the timer into each terminal. This terminal hole is used to be correctly oriented on the timer, as the motor is wired into this terminal. It may be necessary to open the terminal to allow for wire access. To do this, use a screwdriver or flathead screwdriver. If done, turn the screw with a Phillips screwdriver until wire is secure (See Figure 14).
- Plug in the transformer.
- WARNING: Do not connect more than one transformer together with one transformer.
- Slide the transformer into position.

Troubleshooting

Possible Causes of Problems

One or more stations do not turn on:
- Water pressure is too low.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station.
- Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.
- More than one start time is programmed with one station. Station will still turn on and off when it is not supposed to.
- Water pressure is too high.