

## Additional programming

### 11. Select ALLOWED Water Days for programs. (Figure 11)

Use of this feature of the Smart Timers requires a *New Way of Thinking*. In this step, you are NOT determining which days the controller water as you did with your old “dumb” timer. Instead, you are only permitting days for watering. It is best to allow EVERY day so that the Smart Timer is free to water as the weather and plant type suggest. We suggest that you leave the controller with its factory setting for the Flower Lawn and Shrub programs. If you have hanging baskets or are establishing landscape, then go to step 11b. If you have California Native or California Friendly plants, then go to step 11c.

**11a) For Flower™, Lawn™ and Shrub™**, to change the weekly watering schedule of Allowed Days, then push and hold the **NO** switch to erase the displayed weekly watering schedule. The SUN light will begin to flash. *If you want leave SUN as watering day*, then push and hold the **YES** switch. Then, SUN light will remain on and MON light will begin to flash. *If you want to block SUN as a watering day*, then push and hold the **NO** switch until the MON light begins to flash. Continue answering yes or no until the weekly schedule that you want is displayed.

**11b) For the Fixed program**, push the **NEXT** switch until FIXED appears in the display. Push and hold the **YES** and **NO** switches to change the displayed water calendar.

**11c) For the LWU program**, push the **NEXT** switch until LWU appears in the display. See Figure 12. The flashing number (22 in Figure 12) is the one that you may change by pushing the **MORE** and **LESS** switches. This flashing number is the fewest-days-between-waterings for the *hottest* time of year. For example, if you want to water once every 12 days in the summer, then adjust this flashing number to 12. The number to right of the flashing number (42 in Figure 12) is calculated, “stretched” actual watering schedule based on accumulated weather measurements from the SFR SunFall™ sensor. Underneath that number is a count of the number of days since the last LWU irrigation cycle (12 in Figure 12). See [www.weatherset.com/Explain/CalNatives/](http://www.weatherset.com/Explain/CalNatives/)

### 12. Set START Times for each program. See Figure 13.

The Smart Timer has 2 Start Times for the *Flower™, Lawn™, Shrub™* and *LWU* programs. The *Fixed* program has 4 Start Times.

13a) Push and hold the **NEXT** switch to scroll through all the choices of programs and **Start Times**. Note that some entries are blank which means that there is not a **Start Time** entered.

*To change or to add a START Time*, push and hold the **MORE** or **LESS** switch.

*To eliminate a START Time*, push and hold the **MORE** or **LESS** switch until the display is blank.

### 13. MANUAL Watering for each valve. Rotate the switch as shown in Figure 14

14a) The flashing display is asking if you want to water the valve that is shown. *If you want to water that valve*, then push and hold the **YES** switch until the display is steady. That valve will run immediately. *If you want to stop that valve* from watering, push and hold the **NO** switch until the display flashes.

14b) *If you want to run additional valves manually*, then push and hold the **NEXT** or **PREVIOUS** switch to display another valve and repeat step 14a.

By this method, you can instruct the Smart Timer to manually water as many valves as you want. The Smart Timer will run each valve in sequence for the length of time shown in the display. The Runtime shown in the display for each valve may *not* equal that set as the MAX Runtime set in Step 10 because the current Runtime has been modified to match the weather. See the *Explanation of Watering Programs* in Section 20 on the last page of this manual.

The Smart Timer may also break the displayed Runtime into shorted cycles to respect the Cycle Limit set in Step 10. So, some valves may surprise you by watering during the next several hours. The display will show this watering as it progresses.

After you give the Smart Timer instructions to manually water, rotate the switch to the **AUTO/Run** position. The display will show the progress of watering of each valve.

14c) *To stop all watering and to cancel all pending Manual watering instructions*, rotate the switch to the **OFF/Stop** position. Then, rotate it to the **AUTO/Run** position. Your normally scheduled watering will resume.

14d) *If you manually water any valve in LWU program*, then you should probably manually water the other valves in that LWU program. Manually watering any LWU valve will cause the controller to zero the counter for all the valves in the LWU program.

For example, suppose that valves 1 and 2 are assigned to LWU and LWU is set repeat every 15 days and 10 of those day have elapsed. So, you might expect both valves to water in 5 days. If you now manually water valve #1, then controller will zero the elapsed day counter and it will be 15 days before both valves will water. Manually watering a valve in one LWU program does NOT affect the other LWU program.

### 14. “1,2,3 Minute Test”. Rotate the switch as shown in Figure 15.

This test is useful when walking through the yard to inspect for leaking valves or broken spray heads which cause both swampy and dry areas in your landscape. Such inspections are suggested at least every spring and fall. Monthly tests are best. Much water is wasted in our country because sprinkler systems often run at night when people cannot see the geysers from broken heads or the leaking from valves.

This test is also useful when setting the Cycle Limit in Step 11.

15a) *To start a test for leaking valves or broken spray heads*, push and hold the **MORE** switch until 1 or more minutes is selected.

15b) *To start a valve for setting the Cycle Limit*, see Step 11.

Figure 11: Select **ALLOWED Water Days** is selected by rotary switch.

*Lawn™, Flower™, Shrub™* and *LWU* programs allowed to run every day except TU.



Figure 12: **LWU** program is shown. The digits where “22” will flash indicating that you may change it. As you change it, the 2 digits to the right of it will follow. The “12” counts the days since last watering.

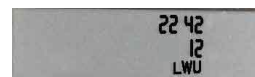


Figure 13: **Set START Times** is selected by rotary switch. **NEXT** switch has been pushed until display shows the second **START Time** of *Shrub™* is 2:00 AM.



Figure 14: **Manual Watering** is selected by rotary switch. **NEXT** switch was pushed to select Valve#3. **YES** switch was pushed to select it. Valve #3 has MAX Runtime of 40 minutes (see Figure 9). But SFR has signalled need for only 35 minutes of water. Cycle limit is 8minute/hour.



Figure 15: **1,2,3 Minute Test** selected by rotary switch. **MORE** switch was pushed to select 004Minute test. Valve #2 has run 03 min + 01 sec. **Solar sensor** is missing or connected backwards. **Rain sensor** is missing or has detected rain.

