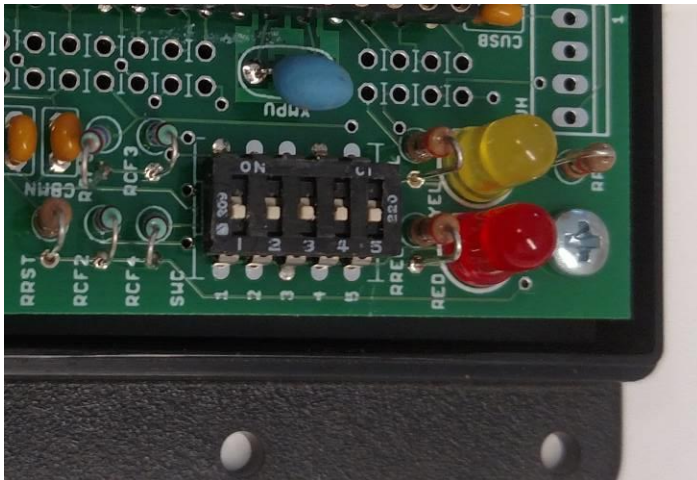


Black Box irrigation timer instructions

The **Black Box** irrigation timer is a 12vdc powered irrigation timer with adjustable on (pumping) time of 15 seconds to 240 seconds (4 minutes). The “on” periods can be every 6, 12, or 24 hours, once, twice, or four times per 24 hour period. The “on” period closes the contact of a 10amp relay that outputs 112vdc to a pump or other device. **DO NOT EXCEED A 10AMP LOAD, OR MORE THAN 3 PUMPS PER CIRCUIT.** If more than 10 amps is required, we can supply a relay for additional current, only if the wiring and battery capacity are adequate.

The Timer is very simple and there is no display. Adjustments to the “on” time are made by moving “dip” switches under the cover of the timer. The timer is set at the factory for 120 seconds (2 minutes) of “on” time. It is suggested you test this setting on your bench before you make adjustments.

Adjusting “on” and 12/24hr settings: Remove the two screws from the cover and carefully remove the cover. It will still be attached with wires so lift it off carefully to expose the 5 small switches at one end. They are small and are most easily moved off to on or off again with a small flat screwdriver or the tip of a pen. All the switches are set to the off position at the factory which is a 2 minute “on” time. They are numbered 1 thru 5 on the side near the edge of the panel. Switches 1-4 determine the “on” time for the relay from 15 to 240 seconds. Switch 5 sets the clock period – either 12 hours or 24 hours per clock cycle. The table for setting the switches on page 2.



Timer Wiring

Red wire is (+) from battery
Black wire is (-) from battery
White wire is (+) output to pump

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Timer Operation: Each time the timer is powered on it goes thru a test cycle and turns the output to the pump on for about 10 seconds. A full “on” cycle may or may not follow immediately depending on the internal clock setting. To reset the clock, hold the round button on the cover down for 5 seconds. Move the rocker switch to 1 or 2 for one or two watering cycles every clock cycle. Push button momentarily for an immediate full “on” cycle. It is suggested to run a few watering cycles before you make adjustments to the “on” time.

Example for making adjustment – the water level gets to ½” deep but you are using large pots and want ¾” deep – this is 50% more water so adjust to 50% more time than the factory set 2 minutes. This is 3 minutes and the switch settings are **on, off, on, on**.

“On” Time Adjustments:

Pump run time				
SW 1	SW 2	SW 3	SW 4	Value
off	off	off	off	120 seconds **
off	off	off	on	15 seconds
off	off	on	off	30 seconds
off	off	on	on	45 seconds
off	on	off	off	60 seconds
off	on	off	on	75 seconds
off	on	on	off	90 seconds
off	on	on	on	105 seconds
on	off	off	off	135 seconds
on	off	off	on	150 seconds
on	off	on	off	165 seconds
on	off	on	on	180 seconds
on	on	off	off	195 seconds
on	on	off	on	210 seconds
on	on	on	off	225 seconds
on	on	on	on	240 seconds

Watering interval	
SW 5	Value
off	24 hour clock - this selection gives watering cycles every 12 or 24 hours **
on	12 hour clock - this selection gives water ing cycles every 6 or 12 hours.

Rocker (on cover) switch settings:

“1” is for one watering cycle at the end of each clock period (12 or 24 hours)

“2” is for two watering cycles every clock period – once in the middle and once at the end.

For assistance call 207 613 2974 or email info@bbwire.com

** factory setting

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