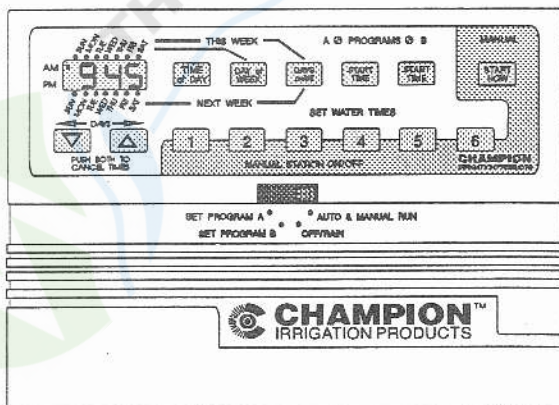




SPRINKLER CONTROLLER

INSTALLATION AND OPERATING GUIDE

For Single Program Models H-4, DC-4, DC-6
Dual Program Models H-42, H-62, DC-42,
DC-62, 27162



Champion Irrigation Products
1460 Naud Street, Los Angeles, CA 90012

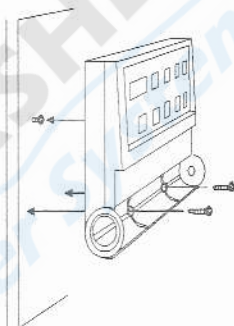
INSTALLATION

Where to Install Your Controller

Locate your controller indoors near a standard 120 VAC outlet. The outlet should not be controlled by a switch or share the same circuit with a garage door opener, electric dryer, or other large appliance. The location should be protected from moisture and temperatures exceeding 120°F.

Mounting Your Controller

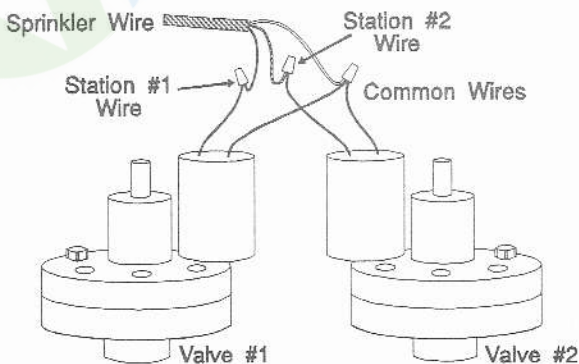
Screw one of the supplied screws into a wall at eye level. Leave 1/8" of the screw head extending from the surface. Use anchor bolts for drywall or masonry. Open the controller cover with a screwdriver or coin. Slip the keyhole opening on the back side over the screw head. Install the two other screws into the holes at the bottom of the controller.



Wiring Your Valves

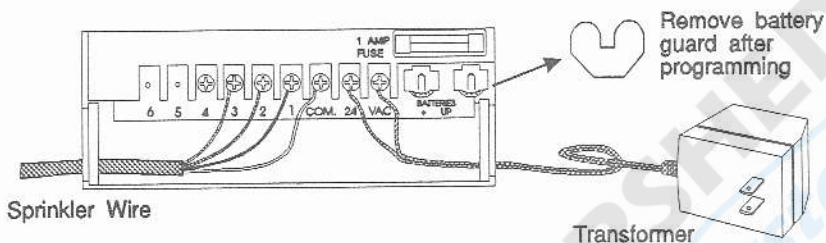
Use color-coded 18 gauge plastic jacketed sprinkler wire to connect your controller to your valves. If you plan to bury the wire, use a route that will not be disturbed later on by digging.

Each valve has two wires. Use one wire for power and one for common (it doesn't matter which one you use). Connect the common wires from all the valves to one of the color coded sprinkler wires (usually white). Connect the other wire from each valve to a single color coded wire.



Wiring Your Controller

Remove the controller cover. Slip the sprinkler wire through one of the large holes on the bottom of the controller. Attach the common wire to the terminal marked "COM." Attach the wire for Station #1 to the terminal marked "1". Attach the remaining wires the same way.



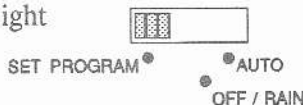
Connecting the Transformer

Unplug the transformer. Slip the two transformer wires through one of the large holes at the bottom of the controller. Attach one wire to each of the terminals marked "24 VAC" Use one transformer per controller.

IMPORTANT: After programming your controller, remove and discard the clear plastic battery guard located in the battery slots.

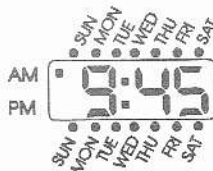
SETTING A WATERING SCHEDULE

Move the slide switch to "SET PROGRAM"
(On dual Program models, slide the switch to "SET PROGRAM A". The red program light will not illuminate)



Setting the Current Time

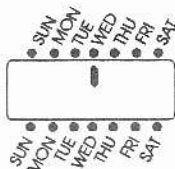
Press Then use and to change the display to the current time. The dot on the left side indicates AM or PM.



The example on the right shows 9:45 AM

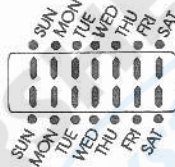
Setting the Current Day of the Week

Press Then use the arrow keys and to move the day marker (●) until it lines up with the current day of the week. *This example shows Wednesday as the current day.*

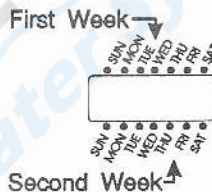


Setting the Days to Water

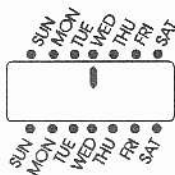
Press The display will show the current watering schedule. If this is the first time you are setting the schedule, all days will be "On".



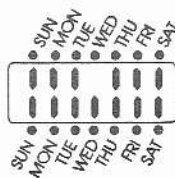
The controller uses a 14 day calendar that cycles through each day of the week for two weeks, then starts over again. The top row represents days of the first week, and the bottom row represents days of the following week. You must program both weeks.



Use the arrow keys and to move the day marker (●) to the day of the week you wish to turn "On" or "Off". The display will show a single day marker which you move to select the day to change.

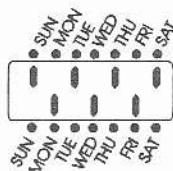


Pressing displays the current watering schedule. Pressing it again toggles the marked day "On" and "Off". If the marked day is illuminated, your sprinklers will run. If it is not illuminated, your sprinklers will not run. *In this example, Wednesday of the first week is off, all other days will water during the two week cycle.*






To change another day, use the arrow keys to move the day marker, then repeat the previous instructions to turn that day "On"


or "Off". Follow these same instructions to set the complete 14 day watering schedule.
In this example, water will come on Sun, Tue, Thu, Sat the first week, and Mon, Wed, Fri the second week.

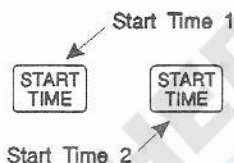


Setting the Watering Start Times

Your controller can water once or twice per day. Press the left button to set the first start time and the right button to set the second start time.

Use  and  to set the desired start time. The second start time is initially set to "Off". If you wish to water twice a day, set a second start time using the right 

If wish to cancel a start time, press  then both arrow keys at the same time.



Dual Program Models only:

To set a second program, move the slide switch to "SET PROGRAM B". Follow the previous instructions to set a second set of Watering Days, Start Times, and Station Watering Times. Note: Do not overlap watering times on Program A & B.



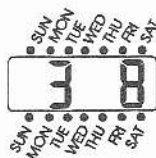
YOUR CONTROLLER IS NOW FULLY PROGRAMMED!

OPERATING YOUR CONTROLLER

AUTOMATIC OPERATION

Move the slide switch to "AUTO & MANUAL RUN". The controller will automatically water according to the program(s) you've set. In Auto mode, stations run consecutively starting with Station #1.

When the controller is watering, the display will flash the active station number on the left and count down the run time on the right. *This example shows Station #3 running with 8 minutes watering time remaining.*



MANUAL OPERATION

Move the slide switch to "AUTO & MANUAL RUN"

To Manually Start a Program:

Press once to manually start the programmed watering times. Press the button again to stop watering and return the controller to automatic operation.

(On dual program models, press once to start Program A, twice to start Program B. Press again to stop watering.)

To Manually Start a Single Station:

Press the station number you wish to start. Press again to stop.

OFF / RAIN

If do not want your controller to water, move the slide switch to "OFF / RAIN". Accurate clock time and program(s) are retained. To return to automatic watering, move the slide switch back to "AUTO & MANUAL RUN"

SYSTEM RESET

A reset button is located under the controller cover at the top left corner. Use a pencil or pen to reach the button through the small access hole. Resetting the controller erases all programs. It is sometimes necessary to use the reset after a power failure or initial installation if the controller does not respond normally.

FUSES, BATTERIES & DEFAULT PROGRAM

Fuse: Your controller uses a 1 amp slow-blow fuse. The controller will blow a fuse if the sprinkler wires are shorted. Correct any wiring problems before replacing the fuse. Always use the same fuse type and amp rating. (Never use a higher amp rating.)

Batteries: Batteries supplied with your controller maintain your program(s) and the correct time in the event of power failure. Sprinklers will water when power is restored. Under normal conditions, batteries should be replaced every 1-2 years. Any brand

of 1.5 volt batteries of the same size can be used. Batteries are available at most hardware, drug and electronic stores.

Default Program: A default program built into your controller is provided in the event of power and battery failure. The program will water each station every day for 10 minutes starting at 5:00 AM.

SOLUTIONS TO COMMON PROBLEMS

PROBLEM	POSSIBLE CAUSES & SOLUTIONS
Valve does not turn on	Wiring to valve broken. Solenoid faulty - test valve with good one. Power to controller is off - test outlet. Flow control on valve adjusted to off. Program set for no watering time. Excessive water pressure.
Fuse blows repeatedly	Short in wiring to valves
Can not set controller, no response from any buttons	Reset controller: Remove batteries, unplug controller, then plug in again. When controller flashes 12:00, program, then replace batteries. Repeat if needed.
Valve won't shut off	Valve needs cleaning or repair.
All valves do not turn on	Controller is running on batteries only-verify transformer is working. Program set for no watering time. Wiring to valves broken - check common. Controller needs to be reset - see above.
On Dual Program Models only: Program B does not water	Program B set to overlap watering times of Program A. Set Program B to start at a different time.

For more assistance call our customer service department at:
(800) 33-CHAMP or (213) 221-2100 from 8:00AM - 4:30PM PST.

Thank you for choosing CHAMPION. We wish you many years of reliable service

TWO YEAR LIMITED WARRANTY

Champion Irrigation Products warrants this product to be free from defects in materials and workmanship for a period of two years from the original purchase date. Champion will repair or replace this product (exclusive of batteries and transformer), free of charge, if it is found to be defective when installed and used in a normal manner during the warranty period. This warranty does not apply to product that has been altered or damaged through misuse or neglect. Champion is not responsible for incidental or consequential damages which arise from the use or failure of this product.

To exercise your warranty, return your controller and original sales receipt to your dealer.

Voltage Specification: Input: 120 VAC Output: 24 VAC 0.3 Amp

CLASS B IRRIGATION CONTROLLER

This device generates and uses radio frequency energy and may cause interference to radio and television reception. It has been tested and found to comply with FCC Class B specifications subpart J, part 15, which are designed to provide reasonable protection against such interference in residential installations. If you encounter interference, you may be able to correct the problem by reorienting your antenna, moving the controller, or putting the two devices on different outlet circuits.

FCC ID: DDM 7EI

PA-20