Intelligent Use of Water





Simple-To-Set Smart Controller Installation Guide

In the interest of product improvement, Rain Bird reserves the right to change product design or specifications without notification.

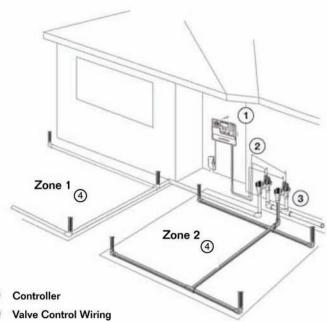
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Rain Bird Corporation Consumer Products Division Customer Service Center 6991 E. Southpoint Rd. Building #1 Tucson, AZ 85706 1-800-RAIN BIRD



What is an Automatic Sprinkler System?





- 1
- 3 Valves
- 4 Sprinkler Zone (Number of Zones vary by Controller Model)



Supplies not included with controller

Valve Control wire; for new systems 18 gauge color coded, multi-strand, direct-burial wire for runs less than 800 feet; 14 gauge for runs greater than 800 feet	M
Water tight splice connectors (gel caps)	
Drywall anchors; optional	Charles A
• ¾" or 1" PVC electrical conduit; optional	

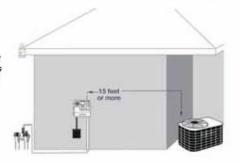
Tools you will need to install timer

Phillips screwdriver	
Wire strippers	~
• Hammer	



Mounting your Controller to the wall

Locate the weather sensor within 25 ft. of the controller. If this is not possible, you will need to purchase additional wire and water tight splice connectors to complete the installation.



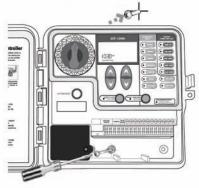
Choosing Controller location

- Locate a spot for your Controller.
- Locate Controller so that it is convenient to run control wires to valves and weather sensor.
- If using attached power cord, locate controller within 5 feet of an AC power outlet.

 Locate Controller at least 15 feet away from major appliances and air conditioners.

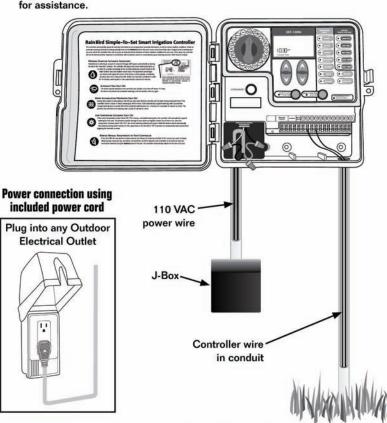
Mounting Controller to wall

- Drive a screw into the wall, leaving 1/8" gap between head and wall. (May also use supplied wall anchors if necessary)
- ② Hang Controller on exposed screw.
- 3 Remove access cover at bottom of Controller and drive a screw through the center hole into wall.



Wiring with Conduit

Below is a typical outdoor hard wired installation using electrical conduit. Check with your local building department or a licensed electrical contractor for assistance.





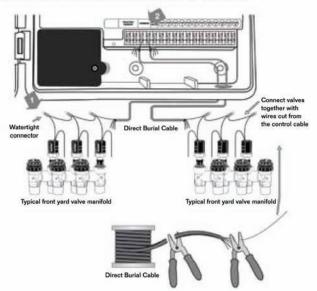
DO NOT plug in until you have completed and checked all wiring connections.



Connecting the Valve Wires: Common

Common Wire Connection

- Connect one wire from each valve together with watertight splice connectors; either valve wire will work.
- 2 Connect all wires to common terminals on controller.





The SST Series controllers can be used with most hydro-indexing valves. Please contact the valve manufacturer for more information. DO NOT connect more than one valve wire to each terminal. Wiring more than one valve to each terminal will damage the controller. Also, if you are using more than one controller, do not share "common" wires between them.

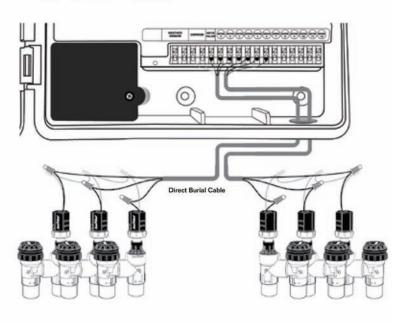


USER TIP: Use watertight splice connectors to prevent corrosion and avoid short circuits.

Control Wire Connection

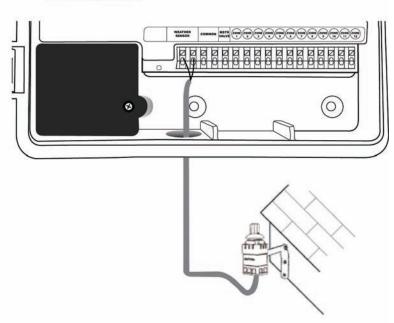
- 1 Connect the second wire on each valve to a wire on the control cable; connect only one valve to each wire.
- 2 Connect the other end of the wire to the desired zone on the controller (1,2,3, etc.).

(Each numbered zone corresponds to the same number zone when programming the controller)



Connecting Weather Sensor

 Connect both Weather Sensor wires to the terminals marked WEATHER SENSOR.

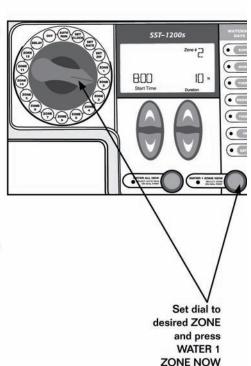




The weather sensor includes a 25' long wire for connecting to the controller. If you require more wire, you can splice additional wire up to 200' in length. Use 18-20 AWG solid wire that is appropriate for outdoor use.

To make sure each system is functioning properly, cycle through each ZONE using the WATER 1 ZONE NOW feature:

- 1 Turn the dial to the ZONE you wish to test and press WATER 1 ZONE NOW.
- 2 The ZONE will start watering for a default 10 minutes.
- (3) Use the Up/Down arrows to adjust the time.
- 4 To stop watering before the time is up. turn dial Auto Bun.
- (5) Repeat on next ZONE until all have been checked.





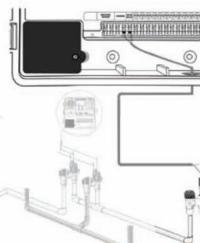
Master Valve or Pump Start Relay

- Connect the color-coded "hot" wire from the Master Valve or Pump Start Relay to the Controller terminal marked MASTER (MSTR) VALVE.
- ② Connect the common wire from the Master Valve or Pump Start Relay to the common wire coming from the station valves. This wire connects to the Controller terminal marked COMMON.
- 3 To avoid possible pump damage, connect a short "jumper" wire from any unused station terminal(s) to the nearest terminal screw in use. For example, if you have a 6-station controller with only 4 stations in use, route stations 5–6 to the nearest active station (in this case, 4).

SST Controllers allow a master valve or pump start relay to operate whenever a valve is operating (pumps are used in some places to draw water from a well or other source).

If you are activating a pump from the Controller, you must also install a Pump Control Relay.

This example shows what a Master Valve connection would look like.
A Pump Start Relay would connect differently at the water source



Water So



USER TIP: Make sure that the total draw of the Master Valve or Pump Start Relay plus the draw of the valve does not exceed 0.650 Amps at 24 VAC, 60 Hz.

This Controller does not provide the main power for a pump.