

Junior DC

Installation instructions:

Mount the controller on the wall, using the wall mount bracket or on the valve, using the valve mounting bracket.

Connect the solenoid wires to the controller. Each cable coming out from the controller is marked with a station number. Connect RED from solenoid to RED from controller and the same for the BLACK wire.

Use the WaterProof Crimp Connectors to make the connections. Unused wires should be taped to prevent short circuit.

Connect the wires FIRST before installing the battery!

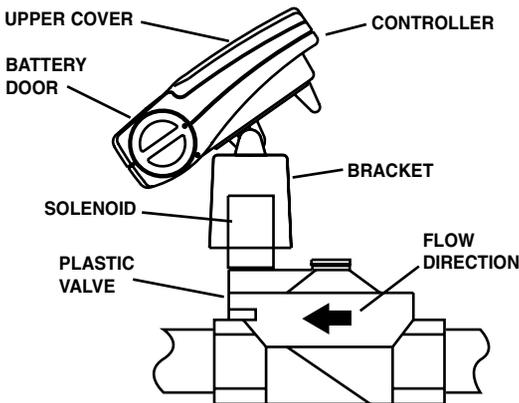
When battery is connected the controller checks the valves position to make sure they are closed!

9 volt Valve -

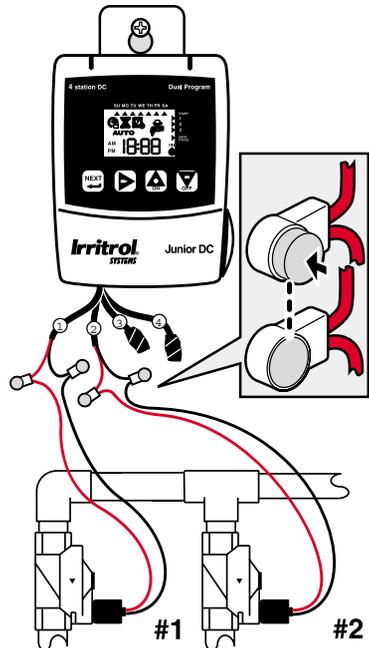
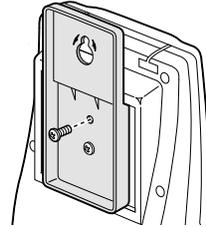
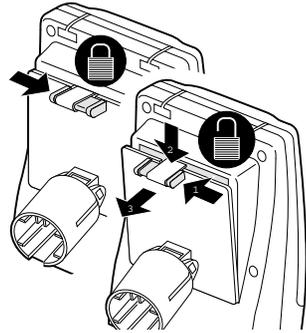
A 9 volt, pulse operated solenoid must be used with this controller. It is also referred to as: 9 volt latching solenoid. The solenoid could be 2-way or 3-way for hydraulic valve applications.

Note: Illustration represents 2 valve application.

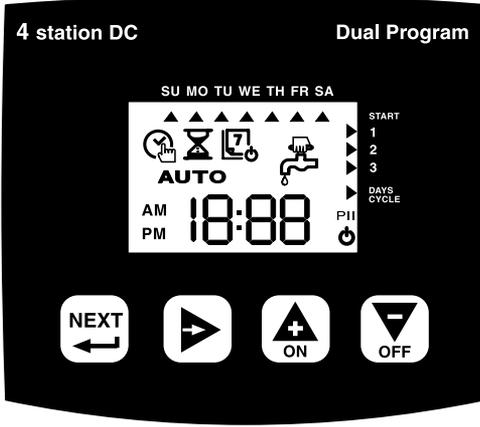
Controller mounted on valve:



1



THE CONTROL PANEL:



Display Icons:

- Set current TIME & DAY
- Watering duration time
- Irrigation Days ON / OFF
- Manual or Semi-Auto
- AUTO** Automatic operation
- PI & PII** Program 1 & Program 2
- OFF - no watering
- Station Number Icon
- Low Battery (flashing)

The control buttons:

- "NEXT STEP"-Advance to next programming step.
- Advance Days & Station number. In watering time position will lead you to % scaling.
- Increase TIME & Watering Time. Used also as "ON" for Days ON and Manual ON.
- Decrease TIME & Watering Time. Time. Used also as "OFF" for Days OFF & Manual OFF.

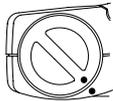
Battery connection

Please make sure that your 9 volt battery is an ALKALINE battery of good quality. Under normal use, the battery should last for one irrigation season. **Low battery indication** will start flashing when battery is low. Replace battery.

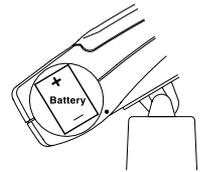
Step 1:
Turn the battery door clockwise, about 45°.



Step 2:
Pull the battery door.



Step 3:
Insert a 9 volt **ALKALINE** battery with + facing the front panel.



Step 4:
Push the battery door back to its position as shown in step 2. Turn counter clockwise to its original position.

Irrigation Program

Irrigation program consists of 3 parameters:

- 1 Watering duration for each station
 - 2 Irrigation Days
 - 3 Program Start Time
- Each station can be assigned to a program by entering Water Time in that program. Stations can be assigned to both programs.

PROGRAMMING STEPS

NOTE: If you press Δ or ∇ continuously, the digits will advance quickly.



To Set the Current Day and Time.

After connecting the battery, the controller should display the "SET TIME/DAY" Icon. If not, Press  until it is displayed.

Press \rightarrow until arrow points to current day.

Press Δ or ∇ to set current time.

Press  to enter watering time.

PI
PII  **1**

To Set the Length of Watering Time.

Enter Watering Time to all stations you wish to assign to this program. Each station can be programmed to have different Watering Time.

Press Δ or ∇ to set the watering time

Press \rightarrow to select your next station in this program. (JRDC-4) Repeat for all the stations.

Press  to advance to next programming step.

PI
PII  **2**

Setting the Days of the Week.

OR

\blacktriangleright DAYS CYCLE

To Set the Number of Days Between Watering.

You can either select the days of the week you wish to water or select days cycle. Arrow under SU is flashing.

Press Δ for the days you wish to water.

Press ∇ for the days you wish to skip irrigation.

Press \rightarrow until arrow points to days cycle.

Press Δ or ∇ to select your days cycle.

Notice that two sets of digits are displayed (00). The right digit will display the selected days cycle while the left digit will display the remaining days to irrigation. If 1 is selected = Every day. 2=Every other day. 3= once every 3 days and so on.

Press \rightarrow if you wish to return to "days of the week"

Press  to program the start time.

PI
PII \blacktriangleright START **3**
1

To Set Watering Start Time(s).

Press Δ or ∇ to set the time. (Notice the AM & PM)

Press  to set next (2nd) start time.

At the time you selected, the 1st station of Prog. 1 will start watering. Other stations in this program will operate sequentially, one after the other, automatically.

To enter program 2 (PII) Press  and repeat from **1** to **3** .

To skip program 2, Press  continuously until you reach  Manual .

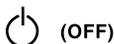


To Water Manually.

NOTE!

To get to Manual mode from any position, press  continuously.

AUTO



WATER BUDGET PI & PII

Two MANUAL modes are available:

Manual start per station (only that station)

Press  to open the station. (Station Icon will stop flashing)

Press  to turn off the station.

Press  to select your next station. (JRDC-4)

If you leave the station ON, it will close after its programmed watering time. First priority is watering time program 1, 2nd priority is watering time program 2, and if no watering time was programmed, will open for 2 minutes. After the station is closed, the controller will skip to AUTO mode.

Press  to select next manual mode.

Manual start per program - Semi-Auto

In this step, you can turn on all the stations programmed in program 1 or program 2. The valves will open in sequence. The 1st programmed station in this program will flash.

Press  to start the cycle and  to terminate it.

Press  to select program 2. repeat as in prog.1

Press  to advance to AUTO mode. Will turn off all stations

Will display Time & Day, open station, low battery and OFF.

Press  in AUTO mode to stop irrigation. (OFF is displayed)

Press  in AUTO mode to resume irrigation.

When you wish to either increase or decrease watering time for all stations in a program, you can do it by using percentage scaling. Your current setting of watering time represent 100%.

You can get to Water Budget position from any Watering Time  position. Press  until you pass all stations and display show 100 and the active stations in that program are flashing.

Press  to increase and  to decrease the percentage.

EX: If stations in PI are set at 10 minutes runtime and you increase percentage to 150%, they will run 15 minutes each. (The new 100%)

Press  to skip to MANUAL  mode.

IMPORTANT INFORMATION

- The  button leads you through the programming steps.
- Auto Return: If within 3 minutes you do not touch any button, the controller will automatically return to Auto mode except from MANUAL mode.
- Quick Digit advance: If you Press  or  continuously, the digits will advance quickly.
- Reset display back to OFF: If you press  and  simultaneously and hold for few seconds, the digits displayed will reset back to OFF.
- Program Erase: In Auto Run mode, press  and  simultaneously until arrow starts to flash. It will flash 5 times to complete Program Erase.

Irritrol
SYSTEMS

USA: (Tel) 1-909-785-3623 (Fax) 1-909-785-3795

Europe: (Tel) 00-39-765-40191 (Fax) 00-39-765-455386

Australia: (Tel) 08-8300-3633 (Fax) 08-8243-2940

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