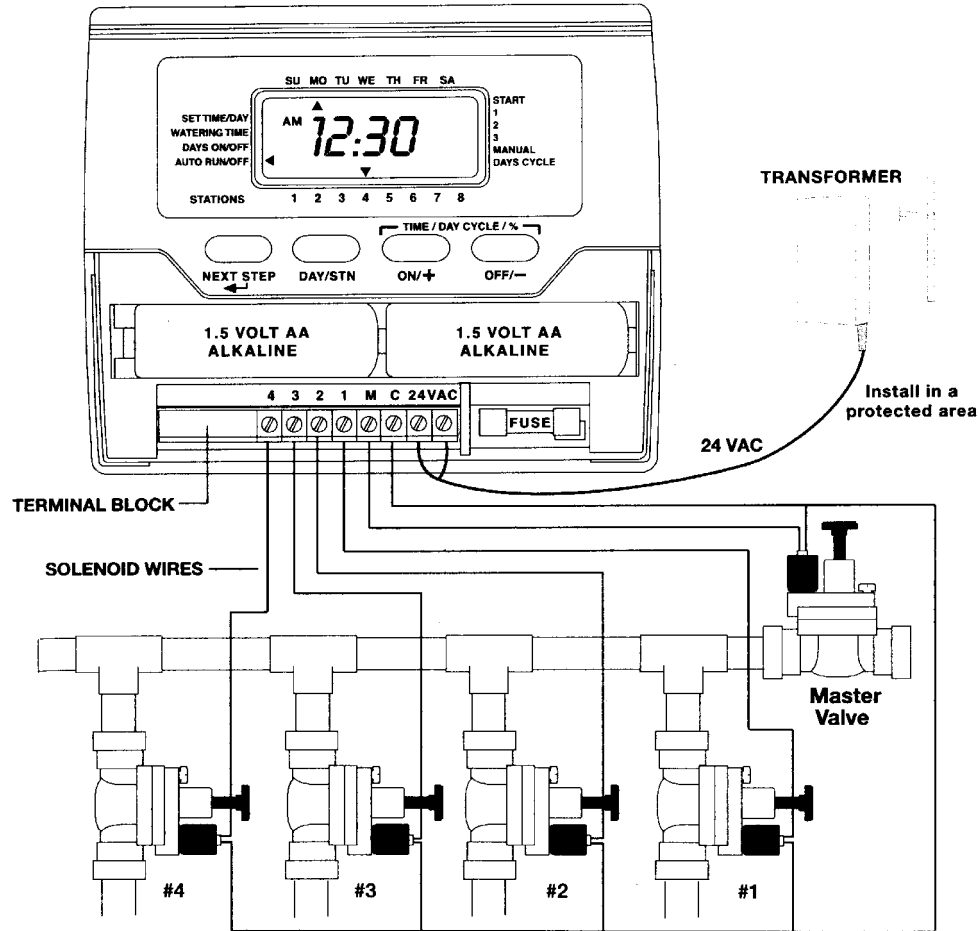


Junior Plus 2/4/6/8

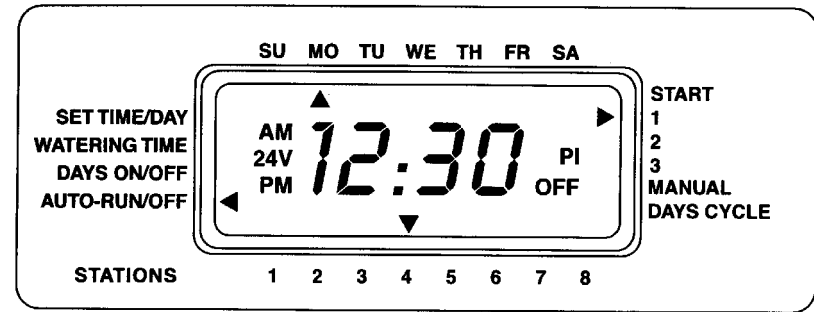
INSTRUCTION MANUAL

INDOOR DUAL PROGRAM CONTROLLER
WITH MASTER VALVE/PUMP START & WATER BUDGETING

INSTALLATION INSTRUCTIONS



Remove the lower cover. Place the unit on the wall using one slot and one fixed hole inside the battery slot. Connect the solenoid wires to the terminal block. One wire from each solenoid should be connected to "C"-Common. The other wire from each solenoid connects to its respective number on the terminal block. Connect the transformer wires to the terminal block marked 24VAC. **Only after all your wiring is done and checked, connect the 2 x 1.5 volt AA alkaline batteries. The display will now be on. Plug the transformer into the power outlet.**



PROGRAMMING STEPS

STN=Station (Zone)

Irrigation programming consists of 3 parameters:

- ① Watering time for each station
- ② Irrigation days
- ③ Program start time

Each station can be assigned to a program by entering watering duration in that program. In a **cycle**, all stations belonging to a program will open sequentially, one after the other. Stations can be assigned to both programs.

- SET TIME/DAY**
- ◀ If ◀ is not on **SET TIME/DAY**, press **NEXT STEP** until ◀ lines up with **SET TIME/DAY**.
 - Press **DAY/STN** until arrow points to current day.
 - Press **ON/+** or **OFF/-** to set current time.

NOTE If you press **ON/+** or **OFF/-** continuously, the digits will advance quickly.

- * Press **NEXT STEP** to enter watering time.
- ① **WATERING TIME** (Program 1)
 - ◀ Enter watering time to all stations you wish to assign to this program. Each station can be programmed to have a different watering time.
 - Press **ON/+** or **OFF/-** to set your watering time.
 - Press **DAY/STN** to select your next station in this program.
 - Repeat for all the stations.
 - Press **NEXT STEP** to advance to the next programming step.

- ② **IRRIGATION DAYS** (Days On/Off)
 - ◀ You can either select the days of the week you wish to water or select days cycle. The arrow pointing under SU is flashing.
 - Press **ON/+** for the days you wish to water.
 - Press **OFF/-** for the days you wish to skip irrigation, or

- ▶ **DAY CYCLE** (Interval)
 - Press **DAY/STN** until arrow points to days cycle [0 0]
 - Press **ON/+** or **OFF/-** to select your days cycle.
 - Both digits will advance together. The right digit displays the selected days cycle, the left digit displays the remaining days to irrigation. If 1 is selected = Every day. 2 = Every other day. 3 = Once every 3 days (1 to 14 day cycle possible).

- Press **DAY/STN** if you wish to return to days of the week.
- Press **NEXT STEP** to program the start time.

③ PROGRAM START TIMES

▶ START 1 PI

- Press **ON/+** or **OFF/-** to set the time.
- Press **NEXT STEP** to set next start time.

NOTE Only one start time is required to start a program.

The first station of program 1 will start watering at the time you selected and the other stations in this program will operate sequentially, one after the other, automatically.

To enter program 2 (PII), press **NEXT STEP** and repeat from ***** to ******. To skip program 2, press **NEXT STEP** continuously until arrow points to **MANUAL**.

▶ MANUAL

Two **MANUAL** modes are available:

Manual Start Per Station (only that station)

- Press **ON/+** to open the station (arrow pointing to the station number will stop flashing). Press **OFF/-** to turn off the station.
- Press **DAY/STN** to select your next station.
- If you leave the station **ON**, it will close after its' programmed watering time. The first priority is the watering time for program 1, the 2nd priority is the watering time for program 2, and if no watering time was programmed, the station will open for 2 minutes. After the station is closed, the controller will skip to **AUTO** mode. Press **NEXT STEP** to select the next manual mode.

Manual Start Per Program — Semi-Auto

In this mode, 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 **ON/+** to start the cycle and **OFF/-** to terminate it.
- Press **NEXT STEP** to select program 2. Repeat as in program 1.
- Press **NEXT STEP** to advance to **AUTO RUN** mode.

AUTO RUN/OFF ◀ (OFF)

- Will display Time & Day, open station and power failure.
- Press **OFF/-** in **AUTO RUN** mode to suspend all watering. **OFF** will appear in the display.
- Press **ON/+** in **AUTO RUN** mode to resume watering.

WATER BUDGET ◀ PI & PII

To either increase or decrease watering time for all stations in a program, use percentage scaling. Your current setting of watering time represents 100%. You can get to the **Water Budget** position from any **Watering Time** position.

- Press **DAY/STN** until you pass all stations and the display shows **100** and the active stations in that program are flashing.
- Press **ON/+** to increase and **OFF/-** to decrease the percentage from 10% to 200%.

i.e.: If stations in PI are set at 10 minutes run time and you increase the percentage to 150%, they will now run 15 minutes each.

- Press **NEXT STEP** to skip to **MANUAL** mode.

IMPORTANT INFORMATION

- The **NEXT STEP** 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 **ON/+** or **OFF/-** continuously, the digits will advance quickly.
- **Reset Display Back To OFF:** In **WATERING TIME** or **START TIME** positions. If you press **ON/+** and **OFF/-** simultaneously and hold for a few seconds, the digits displayed will reset back to **OFF**.
- **Program Erase:** In **AUTO RUN** mode, press **ON/+** and **OFF/-** simultaneously until arrow starts to flash. It will flash 5 times to complete Program Erase.
- **Start Time Stacking:** In case of overlap of two or more start times, the controller will automatically delay the start time until the previous cycle is completed.

BATTERY REPLACEMENT

Replace the 2 x 1.5 volt AA alkaline batteries once a year. Unplug the transformer before replacing the batteries. Plug in the transformer only after the new batteries are in place. Replacing the batteries will require reprogramming the controller if the batteries are not replaced within 15 seconds (before the display fades away).

POWER FAILURE INDICATION

- If a command to open a zone is initiated during power failure, the "24V" on display will start flashing.
- The flashing will stop when the next command to turn on any station is initiated while power is on.
- If the fuse is blown, "24V" will also flash. Replace it with a 0.5 amp. fuse.

SOLENOID RATING

The solenoid valve should be rated: 24VAC, 0.35 Amps inrush max. Only 1 solenoid valve can be connected to each station.

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