

Temporary Rain, Inc.
Instruction Manual
For
Model TR1/4B Single or Four-Station
Battery Operated Irrigation System

Installation, Programming and Operating Instructions

Features

Overview

- Battery Operated
- Compact Design
- Durable – Heavy Duty Construction
- Light Weight
- Six Zone Operation
- 100% Waterproof when submerged in water
- Withstands harsh climatic conditions

Controller

- Controls 1/4 valves
- Independent program for each valve
- Operates on two 9-volt alkaline batteries
- Weekly or Cyclical program
- Up to four start times per each valve in a weekly mode
- Station run time from 1 minute to 12 hours in 1 minute increment
- Simple, four button programming
- Watering Schedule 7-day weekly program or cyclical from once a day to once a month
- Water budgeting from -90% to +90% in 10% increments
- Optional manual operation of one valve or sequentially of all valves

Manifold

- Circular Design
- All Aluminum
- Brass Garden Hose Nipple

Valves

- Glass Reinforced Nylon
- Operating Pressure – 10 to 150 psi
- Flow Range - .1 to 28 gpm

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A. INTRODUCTION

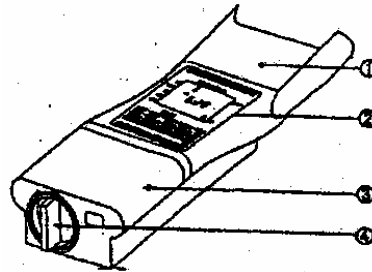
Thank you for purchasing Temporary Rain, Inc. 1/4 Zone Irrigation System. The current portable temporary system you selected is the most advanced in Temporary Rain, Inc. line of battery-operated irrigation systems.

Please take the time to read the enclosed instructions and follow them systematic. If you have any questions, please call 1-800-342-3182, ask for customer service.

B. CONTROLLER SETUP

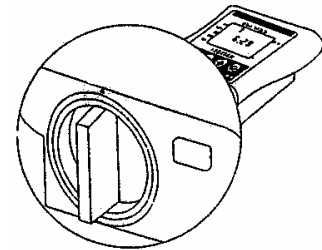
CONTROLLER PARTS IDENTIFICATION

1. Top Cover – DI-03-501
2. Controller Display – DI-560.000W
3. Bottom Cover – DI-03-508
4. Battery Compartment Cover – DI-03-502



BATTERY INSTALLATION

Rotate the battery compartment cover handle to the 11 o'clock position to remove the cover (see drawing). Install two 9-volt alkaline batteries onto terminal clip and insert into battery compartment and reinstall the cover. The controller display will briefly appear and then the six drops above the icon of the valve number will appear with each droplet blinking momentarily and shutting off, followed by the blinking time of "12:00"-the controller is now ready to be programmed.



IMPORTANT: To replace the battery compartment cover, insert it with the handle in the "11" o'clock position and then rotate the cover 1/8" to the right to avoid possible cover guide pin breakage.

PROGRAMMING CONTROLLER

This chapter will explain the features, use of buttons and the programming. To program the controller use the left button to move down to select the desired programming mode, the right button to enter the mode and the plus minus buttons to change the value.

NOTE: The only time you can change any character thru program is when the character being changed is blinking.



Programming step selector- used to select the desired programming mode (includes clock setting mode)



Data increment button (increase)- Raises the value of the selected parameter (when hours selected are from 06:00 to 07:00).



Data increment button (Decrease)- Lowers the value of the selected parameter (When hours selected are from 06:00 to 05:00).



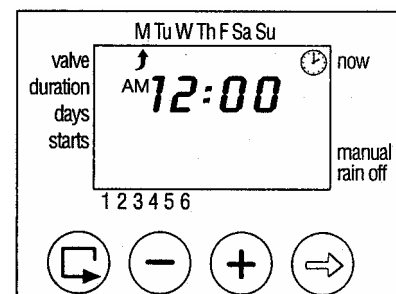
Next step button- used to select the parameter to be changed (hour, minute, etc.) Only a blinking parameter can be changed.

SETTING CURRENT TIME AND DAY OF THE WEEK






To enable the controller to operate the system at the correct time and current day of the week must first be set. Steps below explain how to set the day and time.

Press \Rightarrow the hour digit will blink. Use the \oplus or \ominus , to set the current hour (note: use of AM and PM designations). Press \Rightarrow the minutes digit blink, set the current minute using \oplus or \ominus . Press \Rightarrow , A blinking arrow will appear in the upper portion of the display. Use the \oplus or \ominus to move the arrow to current day. Press \Rightarrow to proceed to the next step.

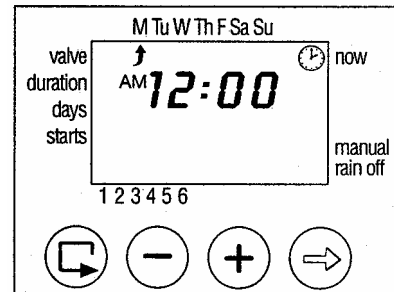
NOTE: If the last data entered stops flashing, press the \Rightarrow to resume programming.



TIME FORMAT (SWITCHING BETWEEN AM/PM AND 24 HOUR)



The default time format is AM/PM. There is also a 24-hour time format option that can be switched between the two formats. Press  several times until  appears. Press  hour digit will blink. Use the  or  simultaneously. The clock reading switches from AM/PM to a 24-hour time display or vice versa.





NOTE: You can switch the time display format at any step in the programming process.

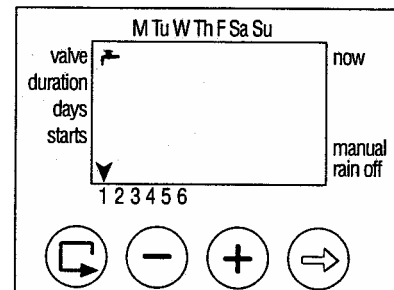


VALVE SELECTION

This model operates from 1-4 valves, each valve is independently programmed by first selecting the desired valve, and then schedule as follows:










Press  until  appears.

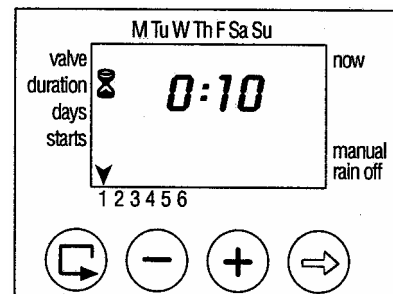
Press . A blinking arrow appears at the bottom of the display. Move the arrow to desired valve number by pressing  or . Press  to proceed to the next step.



SETTING THE WATERING TIME (DURATION)

This setting determines the length of time that the valve will remain open.

Press  until  appears. Press , the hour/minute digits blink. Set the desired number of hours by pressing  or . Press  again, the minute digits blink. Set desired number of minutes by pressing  or . (15 minutes would be a good start, increase if the weather is exceptionally hot and dry. Press  to proceed to the next step.



SELECTING WATERING DAYS

This setting determines which days the controller will operate.

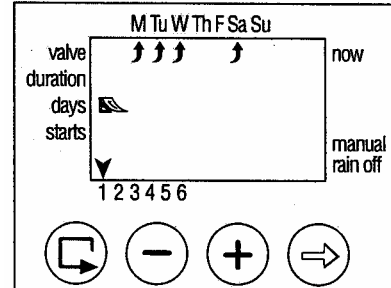
Press \odot until \swarrow appears at the top of the display, under Monday. At this stage, you can set one of two options:

- A) Watering according to the days of the week.
- B) One time only watering or cyclical watering.

A. WATERING ACCORDING TO THE DAYS OF THE WEEK.

To select a watering according to the days of the week, move the blinking arrow to the desired day of the week by pressing \Rightarrow . Press the \oplus . The arrow under the selected day stops blinking, and in a few seconds moves one position to the right, and blinks under the next day of the week. You can select additional days of the week in the same manner. Press \odot to proceed to the next step.

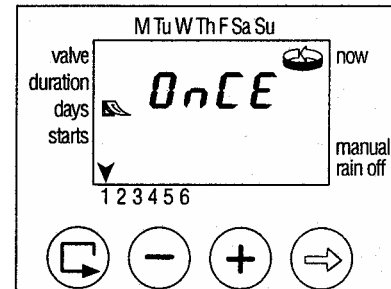
To cancel a scheduled watering day: Press \Rightarrow and move the arrow under the selected day. Press \ominus under the selected day, the arrow will move one position to the right, and appear at the next day of the week. Cancel additional scheduled irrigation in the same manner. Press \odot to proceed to the next step.



B. ONE-TIME IRRIGATION OR CYCLICAL IRRIGATION

This option is used to program the controller to operate the irrigation system one time only, for the irrigation period as set in watering time (Durations).

Press \odot until \swarrow appears. Press \Rightarrow several times (For all the days of the week) until \bullet appears, and **ONCE** blinks on the display.

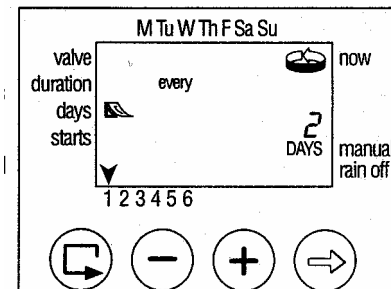


CYCLICAL IRRIGATION

This option is used to program the controller to operate the system in a cyclical manner. Once every 1-30 days, for the irrigation period and is followed by the one-time irrigation period.

Press \odot until \swarrow appears. Press \Rightarrow several times (to advance all the days of the week) until \bullet appears, and **ONCE** blinks on the display. With the display blinking, press \oplus or \ominus . The number of days between watering appears on the display.

For example, if "every 30 day's appears", watering will take place once every thirty days, for the irrigation period as set in duration. To change the number of days press \oplus or \ominus . Press \odot to proceed to the next step.

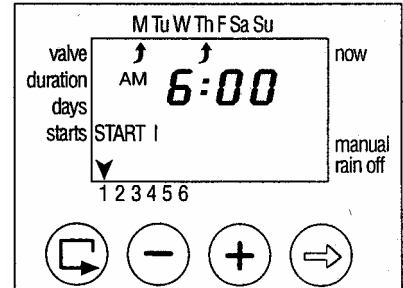


SETTING A START TIME

In this step, up to 4 separate irrigation start times per valve can be programmed in the weekly mode (watering according to the days of the week).

Press \square until START I appears. The word OFF (or the last start time entered) appears. Press \rightarrow the word OFF blinks. Press $+$ or $-$ to set the desired start time hour (note AM and PM). Press \rightarrow the minute will blink. Press $+$ or $-$ to set the desired start time minute. Press \square to set START II and repeat the same steps for start times number 2, 3 and 4 as needed.

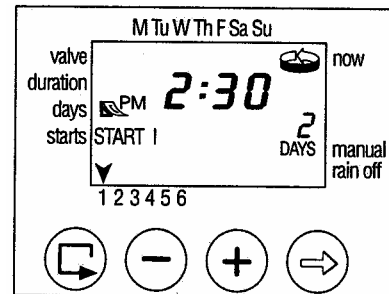
To cancel one of the start times select it by pressing \square . The hour digit blinks. Press the $+$ or $-$ until the word OFF appears. To program another valve, select the valve number and repeat the above steps.



SETTING A START TIME FOR A CYCLICAL OR ONE-TIME WATERING (WITH OPTION TO DELAY VALVE START TIME)





This program is used to pre-set the valve start time (only one start time available) and the number of days to delay the valve start-time, the number of day(s) to delay option will appear on the display to the right of the irrigation start time above the word “days”. In this feature 0 days = program starts today; where 1 = program starts tomorrow, etc. (up to 30 days delay).



Press \square until START I appears or the last opening time entered appears on the display. Press \rightarrow . The hours and the AM/PM digits blink. Set the desired opening hour by pressing the $+$ or $-$ (note: AM and PM designations appear to the left of the hour digits). Press \rightarrow . The minute digits blink. Repeat the same step for setting the minutes and the number of days to delay watering (optional).

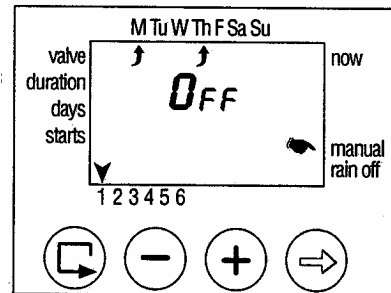
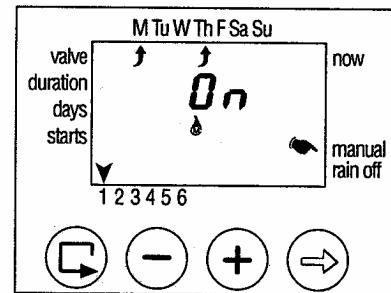


MANUAL OPERATION VIA THE CONTROLLER

This option operates the valve of the defined irrigation period. The valve will automatically close at the end of the irrigation period. Note that the originally programmed irrigation schedule continues to function at the times set.





Press  until  appears. Press  to open the valve (to select other valve please see Valve Selection). The word ON is displayed and a water droplet with the letter M (Master Valve) appears below ON. After 5 seconds, a count down of the remaining irrigation duration appears. To close the valve press , OFF will appear and the valve will close.

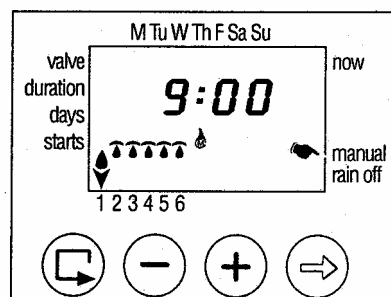
To close the valve manually before the end of the manual cycle press  until ON appears again. Press  to close the valve. Up to two valves can be operated simultaneously in this manner by simply repeating the above steps for the second valve.



SEQUENTIAL MANUAL OPERATION VIA THE CONTROLLER OF ALL VALVES

This option allows all the valves to operate sequentially, one after the other (to select other valves please see Valve Selection).










Press  until  appears, when no icon is blinking on the display, press and hold down  for 5 seconds. Valve number 1 will open and operate for the programmed time. When valve number 1 closes, valve number 2 opens and so forth until the last valve has opened. All the valves designated to open will blink. At any time, you can influence the process pressing  to close the current valve and open the next one.



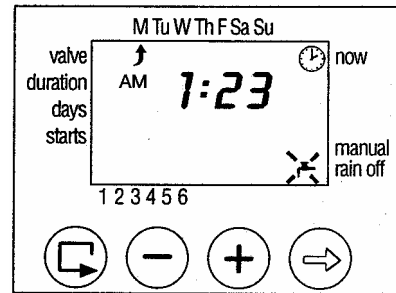
IMPORTANT: You can only exit this screen after all the valves have opened.

“RAIN OFF” (SHUTDOWN)

This option is used to temporarily suspend the controller operation, while it is raining. The irrigation schedule remains stored in the controller memory, but is not implemented until the suspension is canceled. The suspension option disables all the valves connected to the controller.









Press  until  appears. Press  and hold down  for 5 seconds.  appears blinking alongside the word “RAIN OFF”. The controller is now suspended. To restore control to the controller, press   appears, and then press  and hold down until the  disappears.

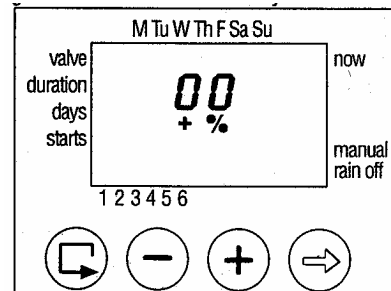
If an attempt is made to operate a valve manually while the controller has been suspended, or when a valve is meant to open sequentially, the word “rain” appears, and the valve will not open.



BUDGET

You can extend or shorten the time durations for valves simultaneously by specifying a percentage increase or decrease for all the valves.

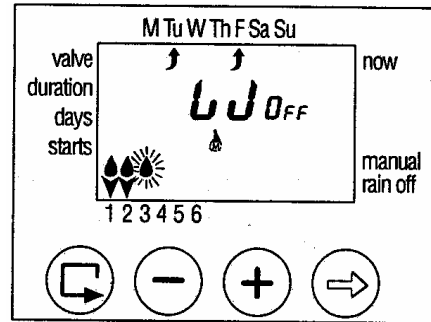
Press  until  appears, wait until no digit is blinking. Press   simultaneously. 00+% is displayed. Press , the 00 blinks. Press  or  to increase or decrease the percentage as necessary (in increments of 10% up to 90%). +% or -% are permanently display on the main  display accordingly.



IMORTANT: Budget feature cannot be assigned to an individual valve. Budget will effect all stations equally.

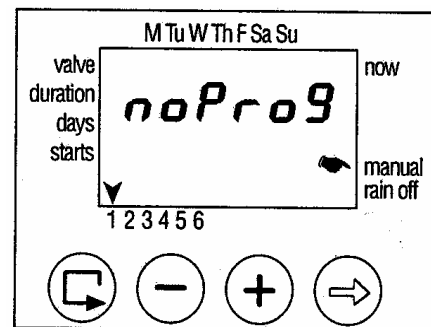
WAIT MODE

When two valves are currently open, and a third valve is scheduled to open, the third valve enters into wait mode. A blinking icon appears above the number of the waiting valve. When one of the first two valves closes, the waiting valve opens. During “manual” operation of a waiting valve via the controller, the letter “W” (Wait) appears on the display. The valve opens when another valve closes.



MISSING A PROGRAM DATA

During “manual” operation via the irrigation controller, “no Prog” appears on the display (MANUAL OPERATION), indicating that no time duration has been set for the specific valve. In this case, opening of the valve is disabled.



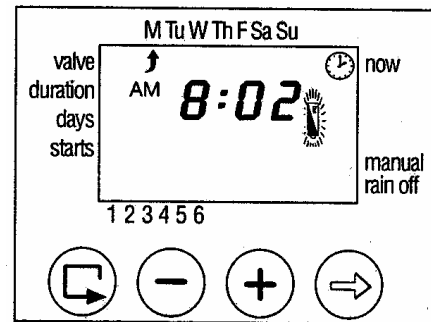
BLINKING LOW BATTERY WARNING

When the batteries are low, a blinking battery icon appears. In this state, the batteries still enable valve operation, but must be promptly replaced.

After replacing the batteries, press any button to resume controller operation.

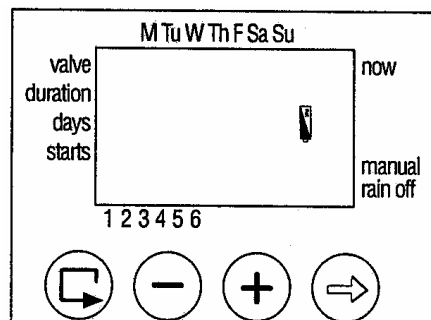
Programmed data is retained if batteries are replaced within a 30 second time period.

HINT: Simply replace one battery at a time.



PERMANENT LOW BATTERY WARNING

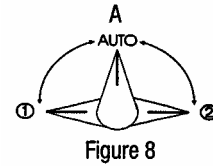
When the batteries are low and not replaced in a timely manner, the battery icon is permanently displayed. All other display elements disappear and all valves are closed. Replace batteries promptly, and press any button to resume controller operation. Programmed data is retained if batteries are replaced within a 30 second time period.



C. VALVE OPERATION

MANUAL-MECHANICAL OPERATION

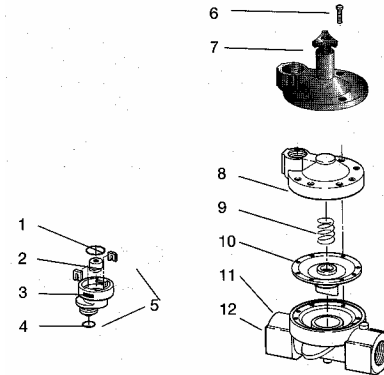
The valve can be opened and closed independent of controller operation. Manual operation is useful when immediate irrigation is required, without the delay of controller programming. See Figure 8. The 3-position manual lever [A] is located on the solenoid manual lever, and functions as follows: Open [1], Automatic Operation [AUTO], Closed, [2].



IMPORTANT: For automatic operation, the valve handle must be in the middle [auto] position

PART IDENTIFICATION – DI-337.075 VALVE

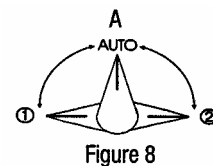
Ref. #	Part #	Description
1	DI-03-055	“O” ring number 1
2	DI-03-061	Puppet – yellow
3	DI-03-058	Bayonet – black
4	DI-03-056	“O” ring number 2
5	DI-P00-189	Black Bayonet Assembly
6	DI-03-022	Screw (6)
7	DI-03-095	Cover Bayonet with Flow Control
8	-----	Not Applicable
9	DI-03-024	Spring
10	DI-03-025	Diaphragm
11	DI-03-026	Body for ¾” valve
12	-----	Not Applicable



D. SOLENOID OPERATION

SOLENOID OPERATION - MANUAL-MECHANICAL OPERATION

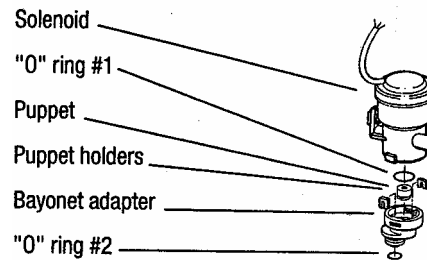
The valve can be opened and closed independent of controller operation. Manual operation is useful when immediate irrigation is required, without the delay of controller programming. See Figure 8. The 3-position manual lever [A] is located on the solenoid manual lever, and functions as follows: Open [1], Automatic Operation [AUTO], Closed, [2].



IMPORTANT: For automatic operation, the valve handle must be in the middle [auto] position

SOLENOID PARTS IDENTIFICATION

Solenoid Assembly: P/N DI-337.000
includes the following named parts



SOLENOID REPLACEMENT

Turn off water supply or turn clockwise the regulator control until the water will not flow. Grip solenoid turn 90° counter clockwise, lift out solenoid. Remove the bayonet adapter. Install new solenoid with bayonet adapter on the valve, be careful not to lose the Seal - "O" ring #2 on the bottom of bayonet or water will continue to flow. Clip the wires on the controller side of the (3) butt connectors of old solenoid, then strip the 3 wires 3/16" in length, insert and crimp the butt connectors to each colored wire. Next cut to length the solenoid cable by adding 1/2" to the length of old solenoid cable length, strip the outer insulation exposing the 3 colored wires. Strip the 3 wires 3/16" in length and insert in the butt connectors matching the colors and crimp. Open the water supply, and then test the valve and solenoid operation via controller.

E. SYSTEM INSTALLATION

SYSTEM INSTALLATION INSTRUCTION

TEMPORARY RAIN IRRIGATION SYSTEM

TR-6B for a 10,000 SQ. ft. residential lawn

SPRINKLER PLACEMENT

The placement of each sprinkler is very important to achieve the best coverage and over-lap. **The sprinklers** used should have a pressure range from at least 25 to 70 psi working pressure, use about 4 gallons per minute of water and a radius of 85 feet. Other sprinklers and types of spray hoses can be used on special applications with the Temporary Rain Systems (TR System). The sprinklers that we recommend have been used extensively and have proven themselves. If you would like to purchase any of the sprinklers or hoses, contact your Distributor.

Start placing sprinklers from either side of the residence and work yourself in a horseshoe direction, ending up in front on the other side. On a 10,000 sq. ft. lot, you would need about 12 sprinklers. So, pick a side to start from.

Place the sprinklers about 40 to 45 feet apart or 14 to 15 steps

Always work the curb edges and allow the sprinklers to sweep over the curb into the street by a few degrees.

In the larger open areas of the lawn try to create a triangle pattern with the sprinkler placement, we refer this to triangulation

Any sprinklers that are positioned close to the house tip the sprinkler towards the building to allow the sprinkler to sweep just below the siding of the building on to the foundation

Avoid watering planting beds as much as possible especially evergreens, know your plant material watering needs

Adjust your sprinkler to the water pressure for the best desired distance, mist, and degree, avoid creating frog eyes (a wetting pattern, 2 ft more or less, around the sprinkler head and 35 to 45 ft away from sprinkler with no moisture in-between

To place the first TR System, count three sprinklers in one direction and three sprinklers in the other direction, place the manifold centered between the closest sprinklers of the two groups, but within 50 feet of the front or rear water spigot. Repeat for the remaining sprinklers using the remaining water spigot for the other TR System

Now, connect a supply hose from a water spigot to the TR System inlet and continue to connect hoses to each sprinkler from the 6 TR System ports, turn on water spigot

Using the manual lever located on the solenoid, move the lever to (1) opening the valve, allowing water to flow to the sprinkler. Adjust sprinkler, then move solenoid lever to automatic position and repeat for the remaining five. Continue connecting all the remaining TR System with hoses to sprinklers, and then program the TR System.

CONTROLLER SET-UP

A. SET TIME AND DATE

- Refer to Setting Current Time and Day of Week

B. VALVE SELECTION

- Refer to Valve Selection

C. PROGRAMMING WATERING TIME (Duration) – The length of time that the valve will remain open

Remember that too much water is as great a danger as too little. A little common sense and observing eyes coupled with these simple instructions will give your new lawns the care that they need and deserve to establish. The key is monitoring to adjust for the right amount of water.

Your eyes or your customers will tell.....

- Refer to Setting Watering Time (Duration)
- Recommended 15 minutes for Spring, Cooler Weather, Fall
- Recommend for Summer up to 20 minutes for seed and maybe 30 minutes for sod
- Definitely water in sod for the first to third day at 20 to 30 minutes for each cycle then adjust duration time down to meet the weather conditions

D. PROGRAMMING WATERING DAYS OF THE WEEK

- Refer to Selecting Watering Days
- Select (A) Water every day of the week

E. PROGRAMMING START TIMES

- Programming the controller by day of the week allows 4 start times per day per valve.
- 4 start times during the season is ideal conditions for sod to root and seed to germinate
- Remember your duration time for each Zone (Valve) so you can set your start times correctly without zone duration time overlap

Example:

- **Zone (Valve) ONE**
 - 1st cycle, zone 1 starts at 12:00 am.
 - 2nd cycle, zone 1 starts at 6:00 am
 - 3rd cycle, zone 1 starts at 12:00 pm
 - 4th cycle, zone 1 starts at 6:00 pm
- **Zone TWO**
 - 1st cycle, zone 2 starts at 12:15 am
 - 2nd cycle, zone 2 starts at 6:15 am
 - 3rd cycle, zone 2 starts at 12:15 pm
 - 4th cycle, zone 2 starts at 6:15 pm

Note:

- Repeat for remaining valves.
- Delay times to allow previous zone to water 15 minutes.
- Example 1st cycle, zone 3 starts 12:30am and so on.
- Zones duration may vary due to weather conditions.

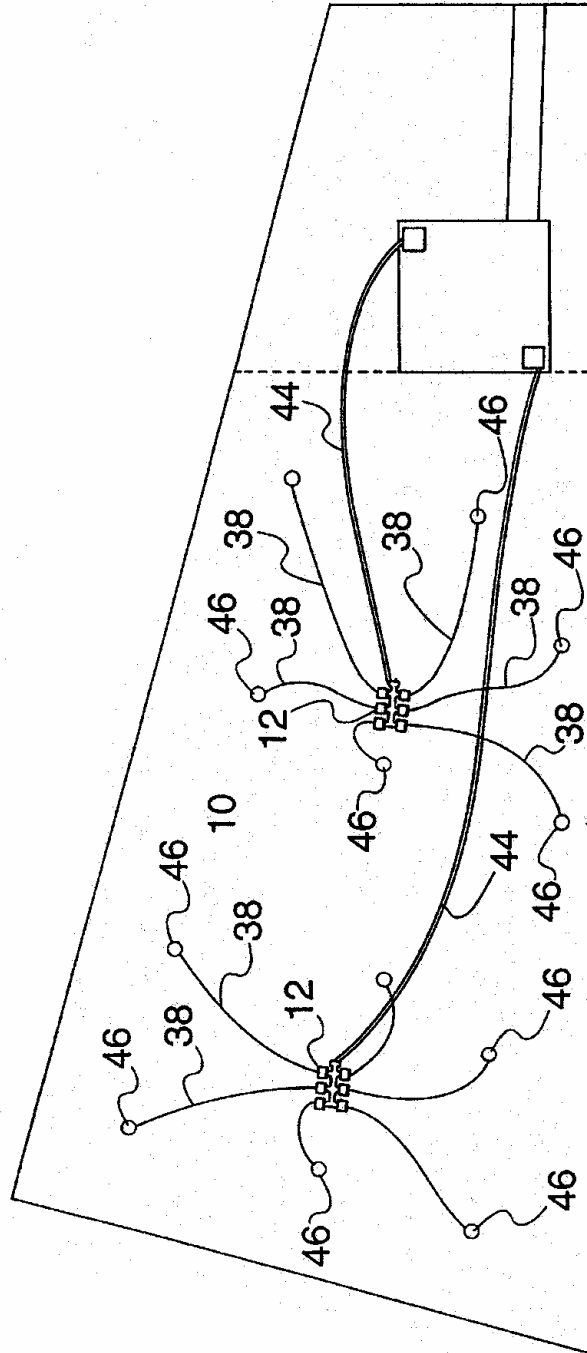
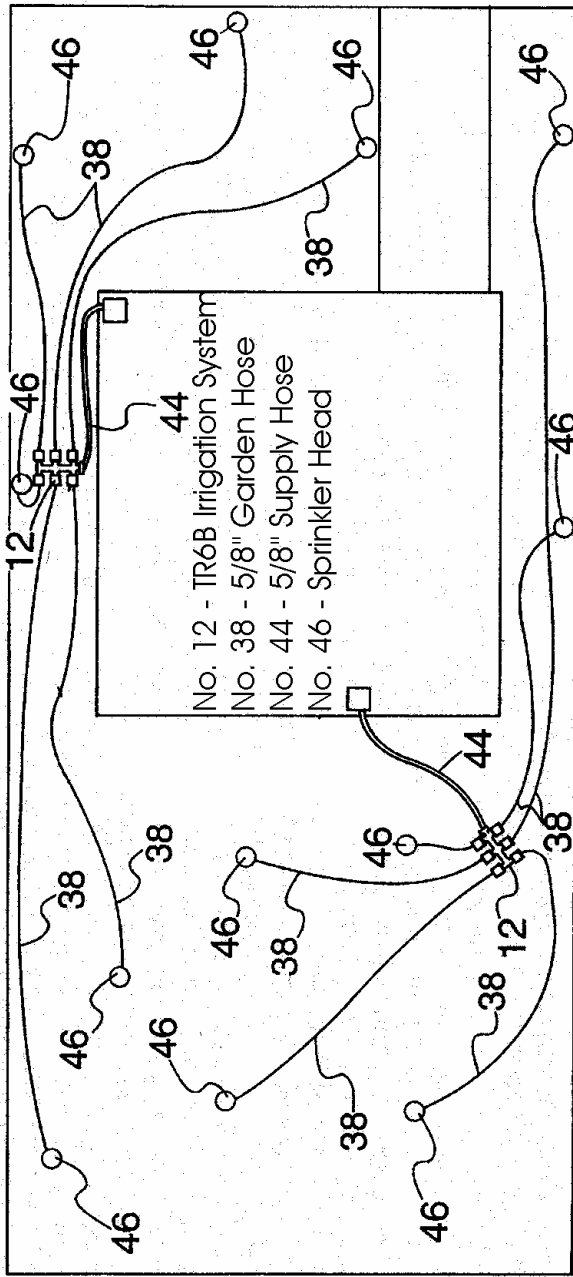
F. MANUAL WATERING

- Refer to Manual Watering via Controller
- Refer to Manual Watering via Valve Operation

G. SYSTEM OFF

- Refer to “Rain Off” Shutdown

SAMPLE INSTALLATIONS



F. SYSTEM CARE

SYSTEM MAINTENANCE

- Preseason Setup
 1. Replace Batteries
 2. Set current time and day of week
 3. Preset duration for each valve and one start time
 4. Operate each valve via controller

- Winterization
 1. Open valve manually and hold upside down to remove majority of water
 2. Blow out any water in the TR System via operation of controller using air pressure
 3. Check for any leaks
 4. Batteries should be removed if the irrigation controller will not be operated for a prolonged period

SYSTEM TROUBLESHOOTING

1. Recommended operating water pressure range: 7-120 psi.
Operating pressure range 7-150 psi.
 2. Under normal usage, batteries (alkaline) will last one year.
 3. It is good operating practice to replace old batteries with new ones at the start of the irrigation season.
-
- Problems
 1. Valve does not open/close during automatic operation “manual” operation via irrigation controller.
 - CAUSE: Manual Lever not in AUTO position.
 - SOLUTION: Place Manual Lever in AUTO position.
 - CAUSE: Weak batteries
 - SOLUTION: Replace batteries
 - CAUSE: Solenoid is bad
 - SOLUTION: Replace solenoid
 - CAUSE: Controller is bad
 - SOLUTION: Replace controller
 2. No display
 - CAUSE: Weak batteries
 - SOLUTION: Replace batteries.

3. Valve does not close despite clicks heard during activation.
 - CAUSE: Manual Lever not in AUTO position.
SOLUTION: Place Manual Lever in AUTO position.
 - CAUSE: O-Ring #2 is missing between the valve and the valve coupling.
SOLUTION: Install a new O-Ring #2.
 - CAUSE: Outlet flow may be too low (minimum flow .5 gpm or 30 gph).
SOLUTION: Increased flow rate
4. Water leakage from the solenoid-valve coupling connection.
 - CAUSE: O-Ring #1 is missing
SOLUTION: Install a new O-Ring #1
5. Water continues to leak from valve hose bib
 - CAUSE: Contaminates are lodged under the diaphragm against the body seat
SOLUTION: Remove valve cover and lift up diaphragm, dislodge contaminates, flush water through valve body to remove any other possible contaminates then reinstall components.
6. Valve will not close/open via controller with no click noise heard during activation
 - CAUSE: Loose wire connection
SOLUTION: Check butt connector for loose wire, repair or replace butt connector
 - CAUSE: Solenoid is bad
SOLUTION: Replace solenoid
 - CAUSE: Controller is bad
SOLUTION: Replace controller
 - CAUSE: Bayonet adaptor is worn
SOLUTION: Check solenoid operation in other valve, if ok, then replace bayonet adaptor
7. Valve leaks at fitting to manifold
 - CAUSE: Insufficient Teflon paste or tape on threads
SOLUTION: Remove valve and reapply sealant

Temporary Rain, Inc. Warranty

Temporary Rain, Inc. warrants these products free from defects in material and workmanship for a period of one year from the date of purchase. This warranty does not cover damage resulting from accident, misuse, neglect, modification, improper installation or subjection to line pressure in excess of 150 lbs per square inch. This warranty shall extend only to the original purchaser of the product for use by the purchaser. This warranty shall not cover batteries or any malfunction of the product due to battery failure. The obligation of Temporary Rain, Inc. under this warranty is limited to repairing or replacing at its factory this product which shall be returned to the factory within one year after the original purchase and which on examination is found to contain defects in material and workmanship. TEMPORARY RAIN, INC. SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND: THE SOLE OBLIGATION OF DIG BEING LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Unattended use for prolonged periods without inspection to verify proper operation is beyond the intended use of this product, and any damage resulting from such use shall not be the responsibility of Temporary Rain, Inc. There are no warranties that extend beyond the description on the face hereof. In case of purchase of the product for use other than, for irrigation purposes, Temporary Rain, Inc. hereby disclaims any implied warranties including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes, Temporary Rain, Inc. disclaims any such warranties shall be ineffectual, then any implied warranties shall be limited in duration to a period of one years from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

In Order to obtain performance under this warranty, the unit must be returned to the factory, along with proof of purchase indicating original date of purchase, shipping prepaid, addressed as follows:

Temporary Rain, Inc., 26188 West Levi Waite Road, Volo, IL 60073. Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of Temporary Rain, Inc.

This warranty gives you specific legal right, and you may also have other right that may vary from state to state.