

SELF INSTALL AUTOMATIC SPRINKLER SYSTEM

32ETI-2PORT

Installation Instructions

About This System

Thank you for purchasing the Rain Bird Self Install Automatic Sprinkler System. This system includes twelve professional grade rotary sprinklers, a 2-port automatic timer for 7-day scheduling plus all tubing and connecting parts.

Specifications

- **Approximate total coverage area:** Up to 6,000 sq ft. (depends on sprinkler placement and your home's water pressure/flow)
- **Recommended water pressure:** 40 – 75 psi
- **Minimum water flow:** 6 gallons per minute (GPM)
- **Sprinkler throw distance (adjustable):** 16' – 24'
- **Sprinkler patterns (adjustable):** 40° to 360°

A Greener Lawn With Less Water

Along with providing more consistent irrigation for healthy grass, this watering system helps you save water four ways:

- Reduces overspray waste with simple adjustments and wind resistant Rain Curtain™ nozzle technology.
- Provides uniform coverage, even close to the heads, reducing overall watering time.
- Avoids overwatering with easy to set schedules that help you meet the true moisture needs of your lawn.
- Waters a larger area than is possible with ordinary hose-end sprinklers operating at the same pressure and flow.

CAUTION

Buried Utility Warning

Call 811 (JULIE INC.) at least 24 hours in advance before you dig (Federally Mandated).

Backflow Protection

You must confirm that the faucet to which the system will be attached includes a hose bibb vacuum breaker or other anti-siphon device to protect against backflow of water. Be sure to check local plumbing codes to determine if more is required. Rain Bird is not responsible for any damage or harm caused if appropriate backflow protection is not installed on the faucet.

Elevation

You must confirm that the elevation of the yard is not greater than 6 ft. from the hose bibb to any sprinkler head in order to ensure proper operation of the system.

Watch the installation overview video

RAIN BIRD®

CONTENTS

Included Tubing, Fittings and Tools

A		(12)	**Adjustable Rotary Sprinklers & Nozzle Tree** 16 – 24 ft adjustable throw, 1/2" bottom inlet with pre-installed 0.75 Gallons Per Minute (GPM) nozzles.
B			**Automatic Timer** Connects to your faucet. Turns the water on and off automatically.
C		(2)	**125' Distribution Tubing** Connects sprinklers underground. Easy to cut in required lengths.
D		(12)	**Stakes and Cable Ties** Support sprinklers for testing before final positioning.
E		(2)	**Rotary Spray Adjustment Tool** For easy pull up and maintenance adjustments.
F		(2)	**Pressure Regulator** Reduces the inlet pressure to your system.
G		(2)	**Tubing Adapter** Connect to the distribution tubing.
H		(4)	**Automatic Drain Valves**
I		(4)	**1/2" Compression Couplings**
J		(4)	**Drain Valve Adapters**
K		(2)	**1/2" Barbed Coupling** Optional Part.
L		(2)	**1/2" Barbed Insertion Tool** For easy installation of 1/2" fittings.
M		(4)	**1/2" Barbed Tee** To divert water to two separate runs.
N		(4)	**1/2" Barbed Elbow** For corners.
O		(12)	**Threaded Male Tees** Connect inline sprinklers to the distribution tubing.
P		(2)	**Roll- PTFE Tape** Seal threaded fittings.

14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 2 8/14/26 5:33 PM

BEFORE YOU INSTALL



Sprinkler System Coverage
La Cobertura Del Sistema De Rociadores

Your Home's Water Flow		Sprinkler Throw	Coverage		Maximum Watering Area
			Rectangle	L Shape	All sprinklers full circle
6 gpm	22,7 lpm	16 ft	1,035 ft^2	1,280 ft^2	3,060 ft^2
8 gpm	20,3 lpm	20 ft	1,568 ft^2	2,000 ft^2	4,845 ft^2
10 gpm	37,8 lpm	24 ft	2,312 ft^2	2,800 ft^2	6,936 ft^2

Check Your Water Flow Rate
Before you plan your sprinkler spacing, you will first need to check your home's water flow rate.

Using a 5 gallon pail, turn on the faucet and time how long it takes to fill the pail. Determine gallons per minute (GPM) with the following formula:

Gallons (container size) ÷ **Time** (seconds) x 60 = **GPM** (Gallons Per Minute)

Example:
5 (gallons) ÷ **17.5** (seconds) x 60 = **17.14** (Gallons Per Minute)

Record Gallons Per Minute (GPM) here:

_____

Refer to the Table (above right) as a general guide to determine sprinkler spacing and maximum coverage area for your irrigation layout.

IMPORTANT: If your tested flow rate is less than 8 GPM, attach the timer to your faucet and do the test again to be sure the working flow will be above the recommended 6 GPM minimum.

This will require you to install the timer's batteries (see page 4). Press "Water Now" on the timer to turn the water on manually.

TIP: For Easier Installation Uncoil tubing and let it warm in the sun for a few hours before installing.

Tools Needed



Flat blade shovel or half moon edger
Measuring Tape
Garden shears or tubing cutter
(2) AA batteries

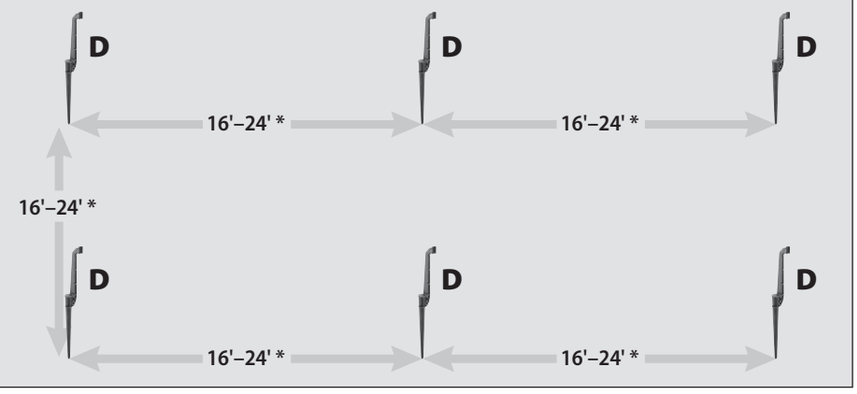


Empty 5-gallon pail

14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 3 8/14/26 5:33 PM

Step 1

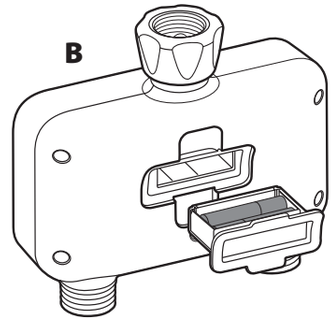




Mark sprinkler locations.

Elevation: You must confirm that the elevation of the yard is not greater than 6 ft. from the hose bibb to any sprinkler head in order to ensure proper operation of the system.

Step 2



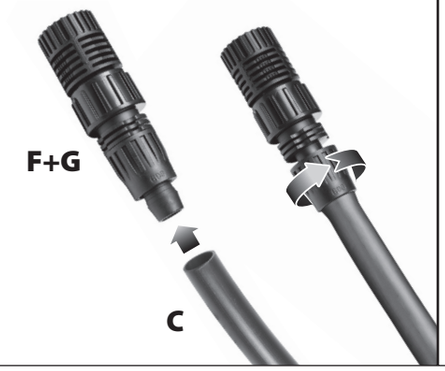


Important: As discussed in the "Caution" section on page 2, you are responsible for confirming that the faucet to which the system will be attached includes a hose bibb vacuum breaker or other anti-siphon device to protect against backflow of water and that satisfies local plumbing codes.

Install batteries and connect timer to faucet.

Step 3



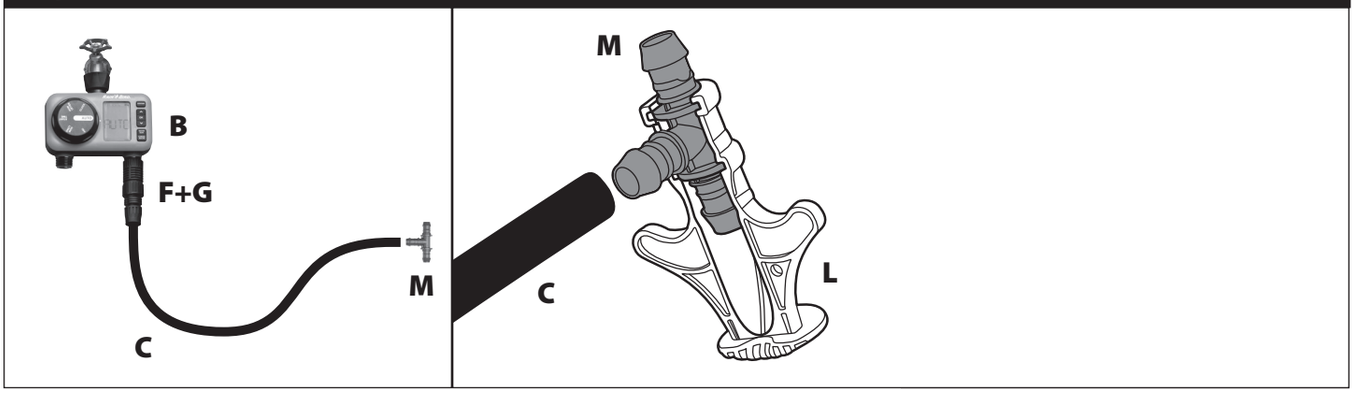




Assemble faucet connection components. Attach tubing. Screw onto timer.

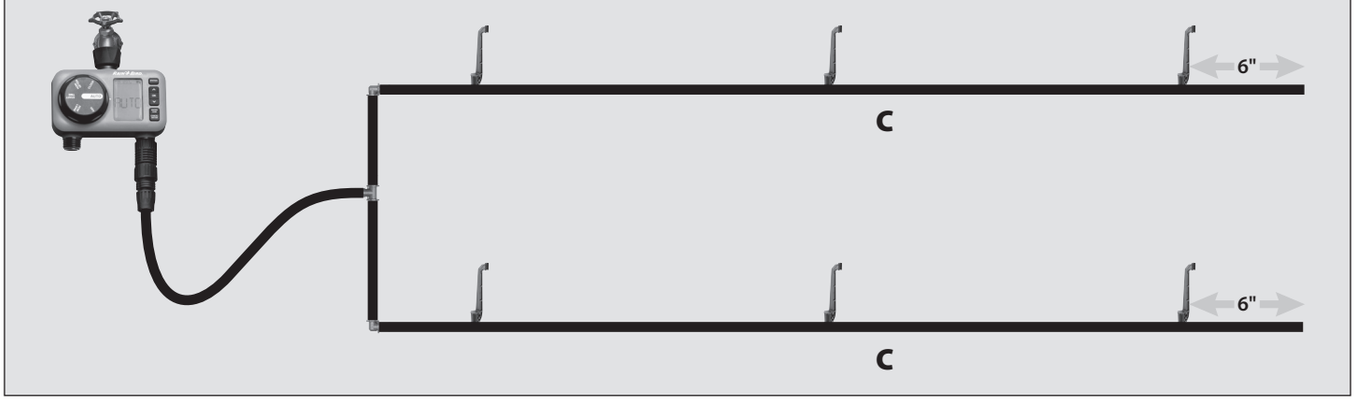
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 4 8/14/26 5:33 PM

Step 4



Attach tee (M).

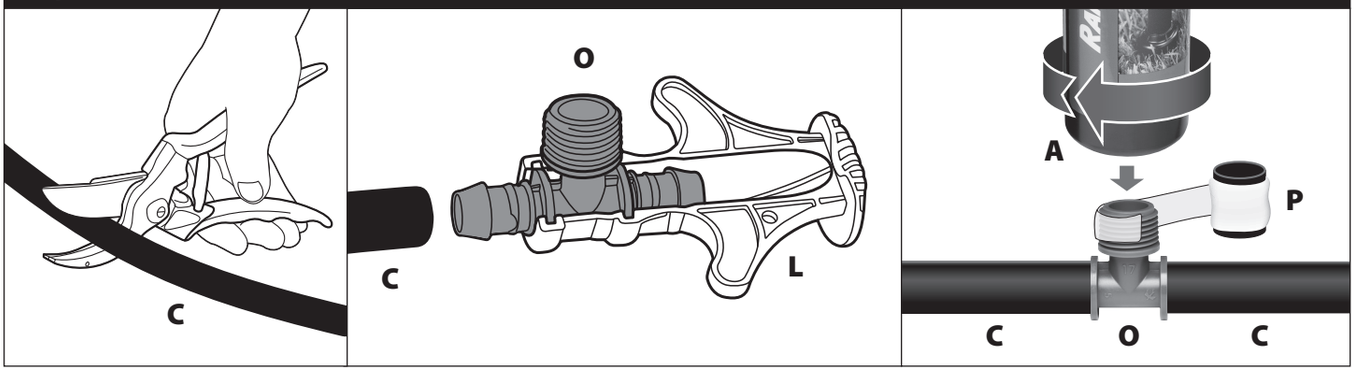
Step 5



Run Tubing to Stakes.

After the last stakes on each run, keep each tubing piece at least 6" extra length for later trimming.

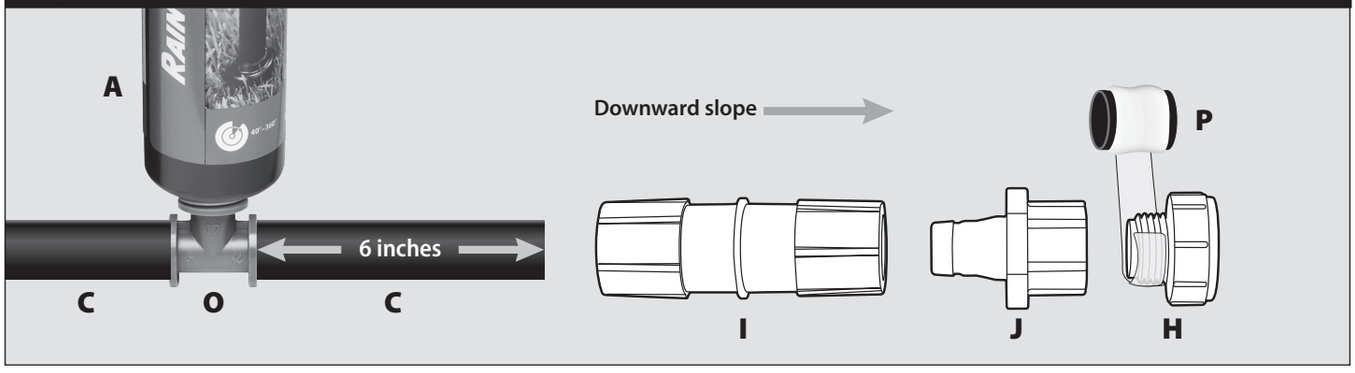
Step 6



Cut Tubing At Sprinkler Head Locations. Attach Tees (O). Attach Sprinklers.

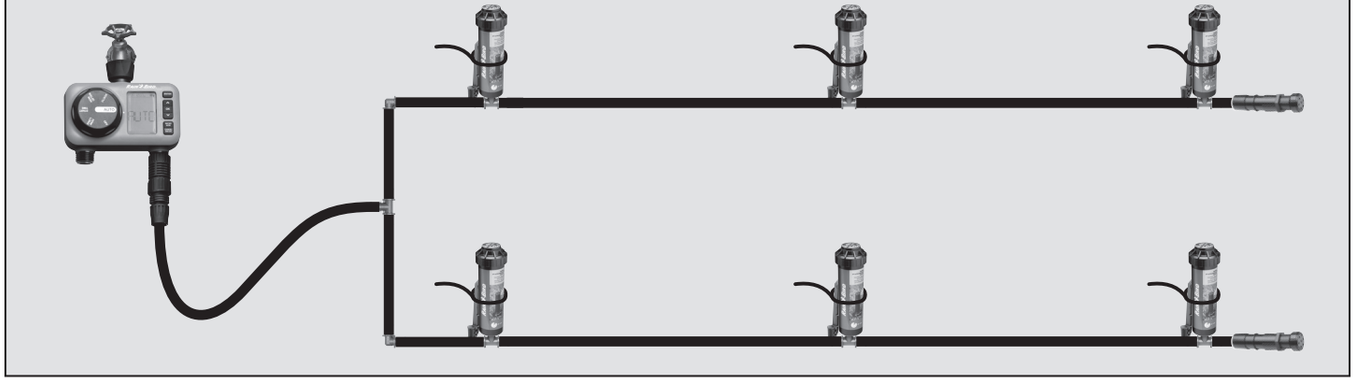
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 5 8/14/26 5:33 PM

Step 7



Assemble and Attach Drain Valve Components.

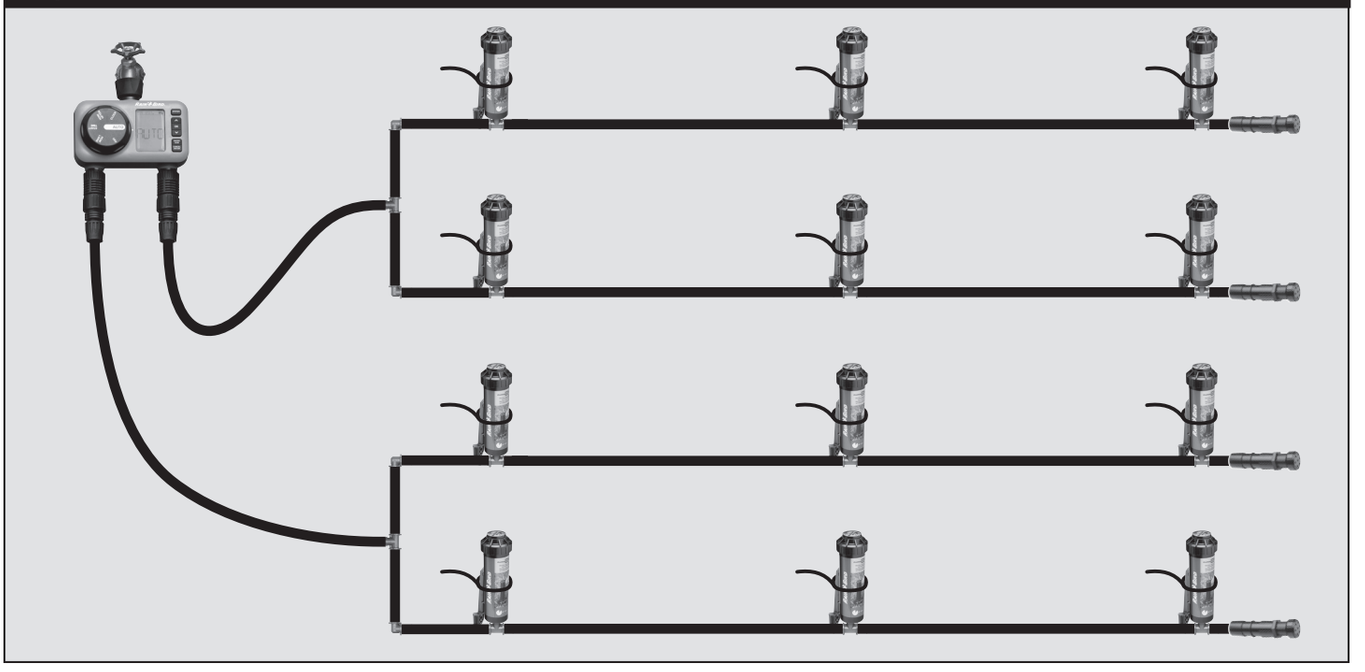
Step 8



Temporarily cable tie the sprinkler heads to the plastic stakes.

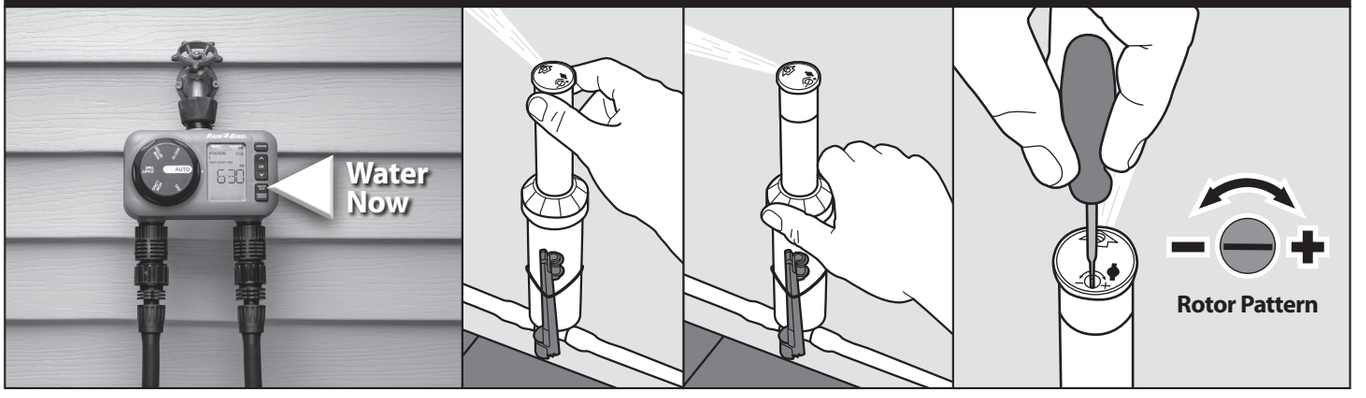
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 6 8/14/26 5:33 PM

Step 9



Repeat steps 3 to 8 for the other timer port.

Step 10



Test System

Press "Water Now" on the timer and then observe sprinkler throw distance and pattern. Ensure layout is covering all areas of your plan. Adjust or reposition sprinklers if needed.

Adjust Sprinkler Direction

With the water on, adjust the sprinkler direction by turning the center cap to the right until it stops, then to the left until it stops. This left stop is your fixed left edge, the starting point from which rotation begins. To match the fixed left edge with your watering area, rotate the entire sprinkler body to the desired position.

Adjust Sprinkler Pattern

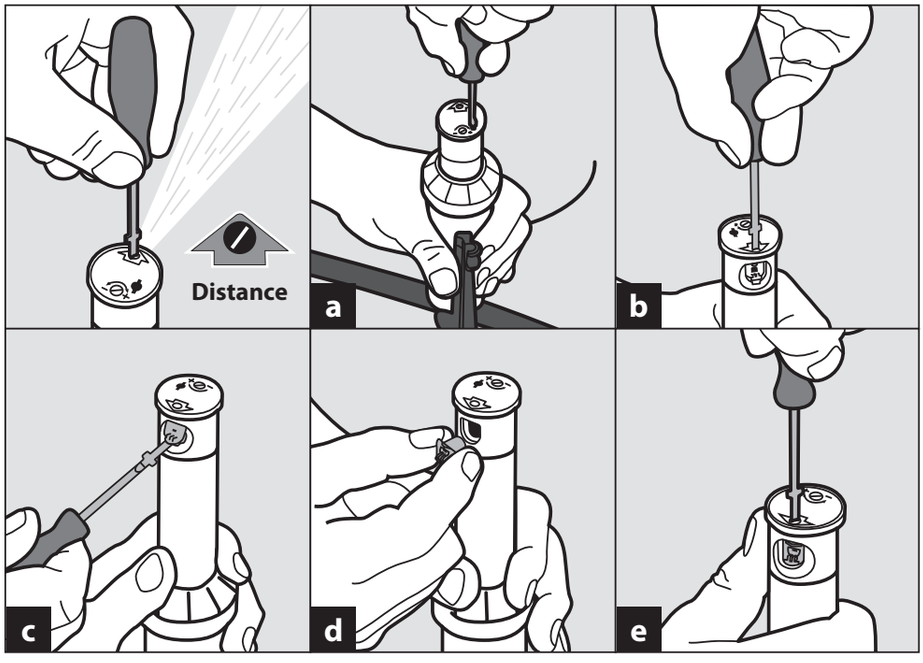
To adjust the pattern from 40° to 360° (part or full circle), use the Rotary Spray Adjustment Tool to turn the pattern adjustment screw. Turn it to the RIGHT for more rotation, to the LEFT for less rotation. A properly adjusted pattern covers all of the grass that can be reached from that head without overspraying onto the sidewalk, driveway or other non-grass areas.

14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 7 8/14/26 5:33 PM

Step 11

Adjust Spray Distance.

Confirm that all areas of your lawn section are being watered evenly and completely. If not, you can adjust each sprinkler's spray distance by following these simple steps:



1. Adjust the "distance" screw

Use the Rotor Adjustment Tool to turn the distance screw. Turn to the LEFT to increase distance, to the RIGHT to decrease distance.

2. Change to higher flow nozzles (if necessary) REQUIRES at LEAST 8 GPM FLOW.

The sprinklers in this system have 0.75 GPM (low flow rate) nozzles pre-installed. Included with your system are 12 extra nozzles with higher flow rates: (6) 1.0 GPM nozzles and (6) 1.5 GPM nozzles. If your home's water system has sufficient flow, you may be able to increase sprinkler throw distance by changing the nozzles.

How To Change Nozzles

CAUTION: Do not adjust or remove when the rotor is under water pressure.
a) Lift shaft with the rotor adjustment tool.
b) While holding shaft, turn the Distance Screw to release the nozzle.
c) Remove the nozzle by prying with a screwdriver or needle nose pliers.
d) Insert new nozzle.
e) Use screwdriver to tighten the radius reduction screw.

3. Reposition sprinklers (if necessary)

To adjust the pattern from 40° to 360° (part or full circle), use the Rotary Spray Adjustment Tool to turn the pattern adjustment screw. Turn it to the RIGHT for more rotation, to the LEFT for less rotation. A properly adjusted pattern covers all of the grass that can be reached from that head without overspraying onto the sidewalk, driveway or other non-grass areas.

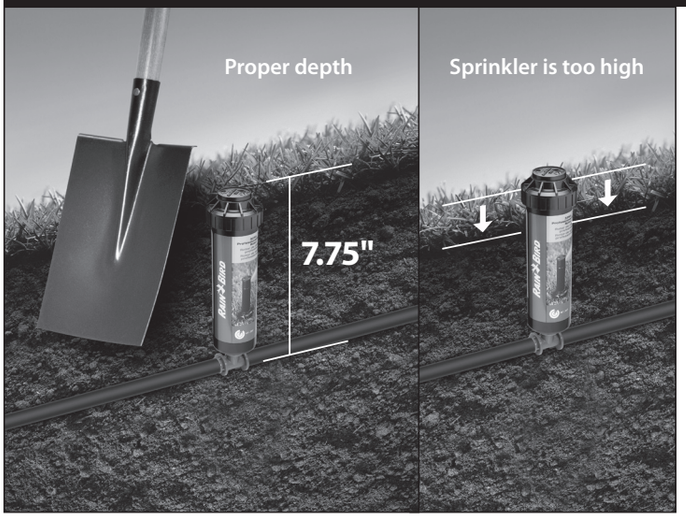
Change nozzles to fine-tune throw distance

Preinstalled Nozzles	Water Pressure	Max. Distance
0.75 gpm	25 psi	15 ft.
	45 psi	17 ft.
	55 psi	18 ft.
Other Nozzles Provided (6 ea) Requires at least 8 gpm water flow.		
1.0 gpm 	25 psi	20 ft.
	45 psi	21 ft.
	55 psi	22 ft.
1.5 gpm 	25 psi	23 ft.
	45 psi	24 ft.
	55 psi	24 ft.

14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 8 8/14/26 5:33 PM

FINAL ADJUSTMENT

Step 12



Cut Slots In Lawn And Bury Tubing

Use a flat blade shovel or half moon edger and work along in short intervals, pushing the tubing in with your hands. Take care not to nick the tubing with your shovel. The tubing and sprinklers must be deep enough so that the sprinklers are flush with the ground. Finish by packing dirt around the sprinklers and tamping the ground for a neat appearance.

Step 13



Turn Water On and Check Sprinkler Function

Some things to check:

- **All sprinklers are in full popped-up position**
  If some sprinklers are not in the full popped-up position, and your flow was less than 8 GPM, try removing the pressure regulator in step 2A and connecting the tubing adapter directly to the hose timer. If this does not correct the situation, please call 1-800-RAIN-BIRD to speak to a technical service rep.
- **The watering streams are even, not spitting or misting**

To adjust sprinkler pattern or throw distance, repeat step 10 & 11.

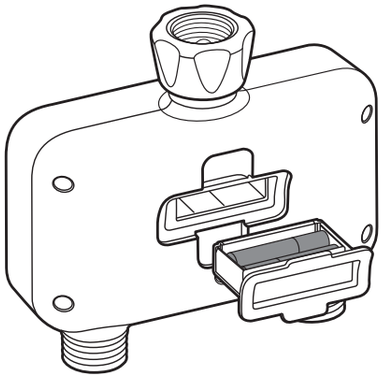
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 9 8/14/26 5:33 PM

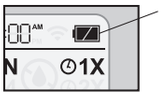
Step 14

Set The Automatic Timer

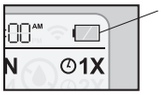
Install Batteries In Timer. Requires 2 AA (1.5V) alkaline – not included.
To protect the timer, remove old batteries at the end of the watering season and dispose of properly.
Install fresh batteries at the start of the season and whenever the Low Battery icon flashes.











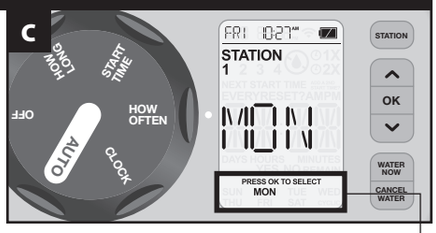
Initial Setup



Set Clock And AM/PM
• Set current time (▲▼ OK).

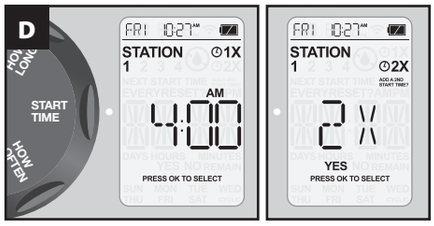


Set Date
• Set current date (▲▼ OK).

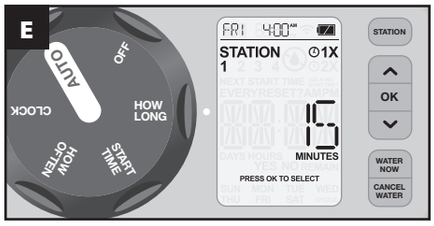


Set How Often
• Select day of week or cyclic (▲▼ OK).
• Press STATION to cycle through outlets.

Selected days will be highlighted here



Set Start Time
• Set start time (▲▼ OK).
• Add a second start time per station
Yes (OK)
No (▲▼ OK)
• Press STATION to cycle through outlets.



Set Duration*
• Set watering duration up to three hours per cycle (▲▼ OK).
• Set additional duration (▲▼ OK).
• Press STATION to cycle through outlets.

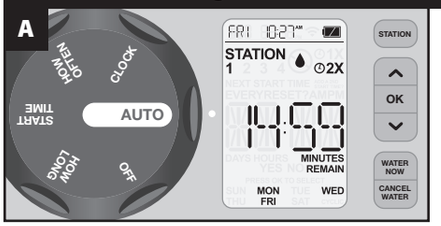
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 10 8/14/26 5:33 PM

This timer is intended for outdoor use with cold water only.
Working water pressure: 15 psi (minimum) - 90 psi (maximum)
Working temperature: Keep from freezing - 110° F (maximum)

PROGRAM YOUR TIMER

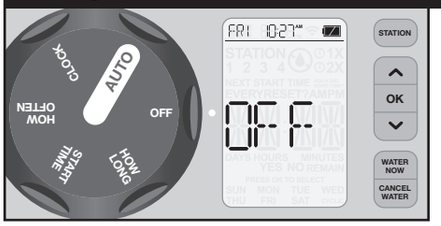
Automatic Watering

A



Turn dial to AUTO
- Automatic watering according to programmed schedule(s).
- When watering: Displays time remaining on cycle.
- When not watering: Displays next scheduled start time(s).

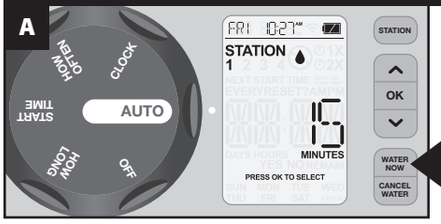
Turning Unit Off



Turn dial to OFF
- Turns the device off and stops watering immediately.
- NOTE: Your settings are saved.

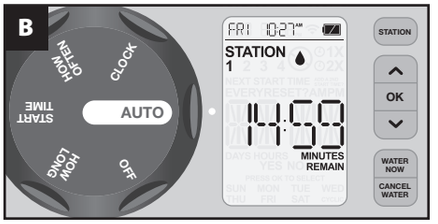
Manual Override

A



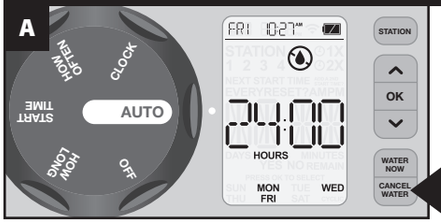
"Water Now" Manual Watering
- Press **WATER NOW** button once to start manual watering.
- Press **STATION** to cycle through outlets (on select models).
- Use the ▲▼ and **OK** buttons to adjust the duration. If no time is selected, the timer will default to a 10-minute cycle.
- Watering will begin within a few seconds. Displays time remaining (when ON).
- To cancel, press **CANCEL WATER** button.

B



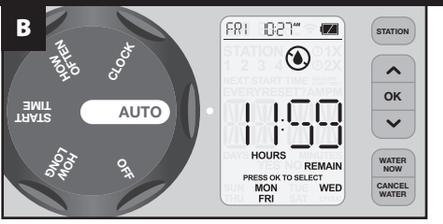
Rain Delay

A



When watering: Press **CANCEL WATER** once to cancel current cycle only. Watering stops in a few seconds.

B



When not watering: Press **CANCEL WATER** once to set a specific delay up to 96 hours for all stations. (▲▼ OK)

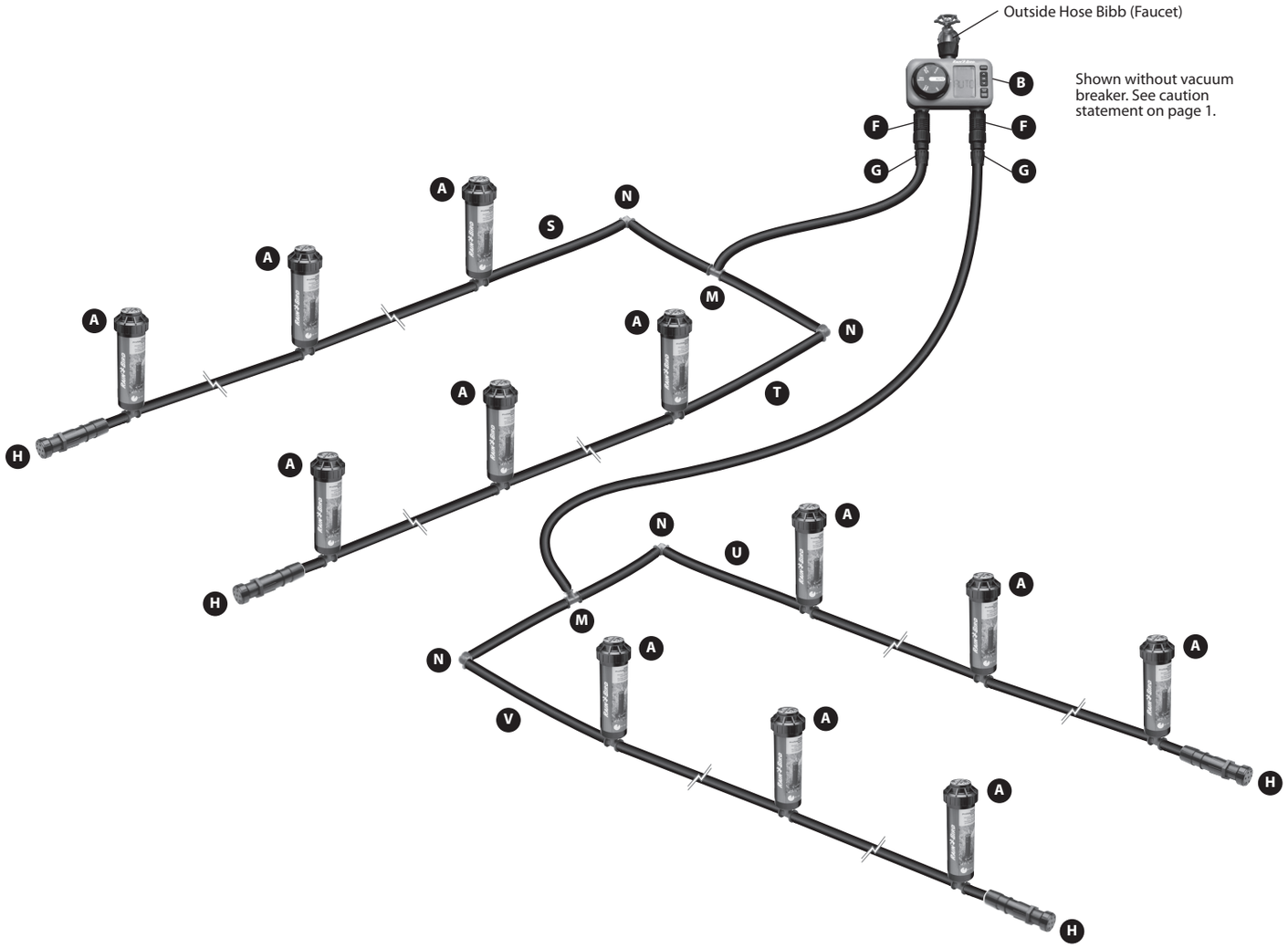
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 11 8/14/26 5:33 PM

Installation Overview

This system can be installed in different ways depending upon the contour and shape of your lawn or garden.

- **A** **Inline Sprinkler Head**
- **B** **Timer**
- **F** **Pressure Regulator**
- **G** **Tubing Adapter**
- **H** **Drain Valve**
- **M** **Barbed Tee**
- **N** **Barbed Elbow**
- **S** **Tubing Section 1**
- **T** **Tubing Section 2**
- **U** **Tubing Section 3**
- **V** **Tubing Section 4**

Important
Four auto drains are included and should be installed in both tubing runs at the **lowest point** of your lawn for proper drainage. See page 6 for example connections.



14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 12 8/14/26 5:33 PM

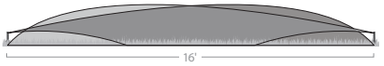
EXAMPLE LAYOUTS

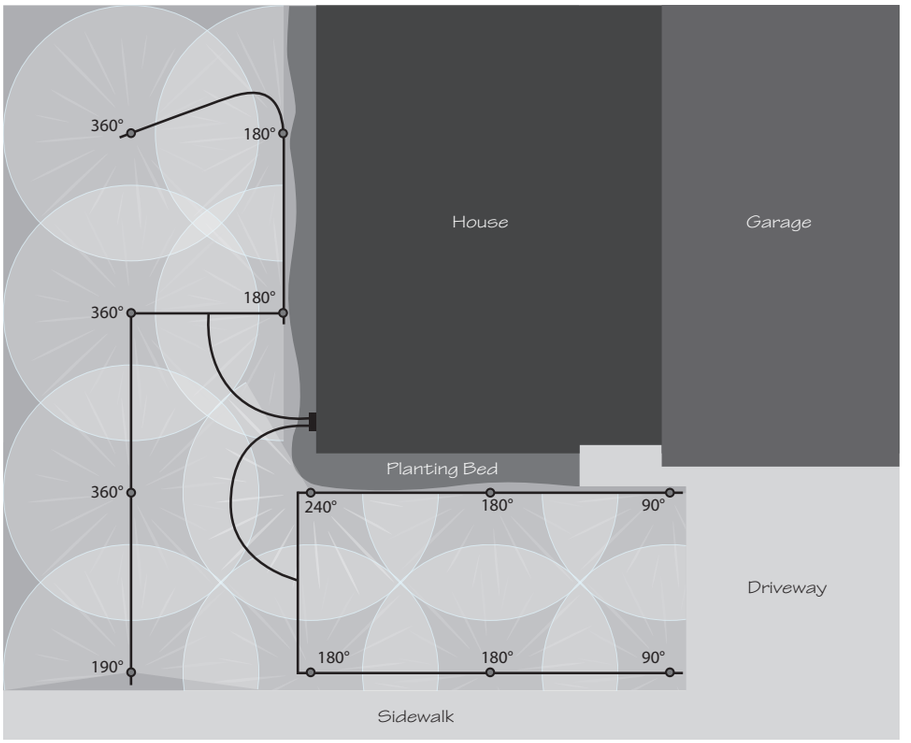
Important
For proper water flow to every sprinkler, **no more than 3 sprinkler heads should be installed on a single length of distribution tubing.**

Installation Tip
To obtain the most even coverage of your watering area, each sprinkler should be located so that its watering "throw" distance reaches the next sprinkler. This "head-to-head" coverage is important to assure that all areas receive an even amount of water. A proper irrigation layout will help you save water and money by avoiding the need to schedule extra watering time for light coverage areas and brown spots.

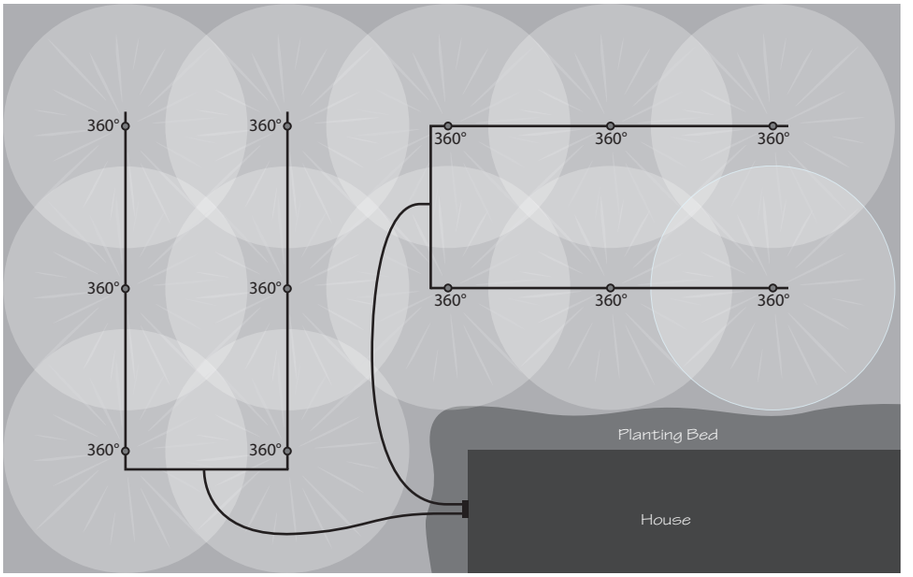


Head-To-Head Coverage





L Shape: 46 ft x 90 ft | 2,070 ft² | 6 gpm



Maximum Watering Area – All Sprinklers Full Circle: 136 ft x 90 ft | 6,120 ft² | 6 gpm

14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 13 8/14/26 5:33 PM

Sketch And Stake Your Layout

Sketch your yard

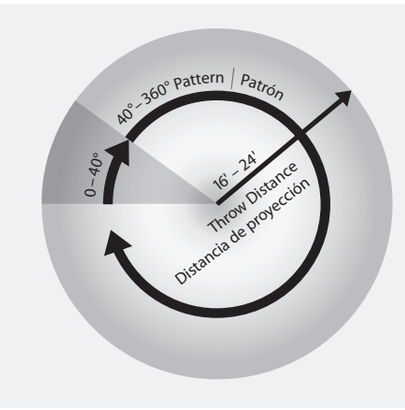
Note any obstacles you need to work around in routing the underground distribution tubing. Mark the intended location of each sprinkler head.

Scale 1" = 10'



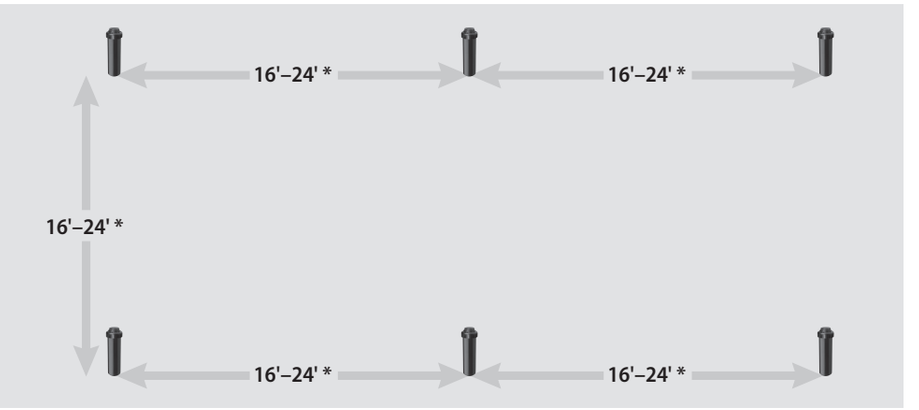
14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 14 8/14/26 5:33 PM

Sprinkler Pattern (adjustable 40°–360°)



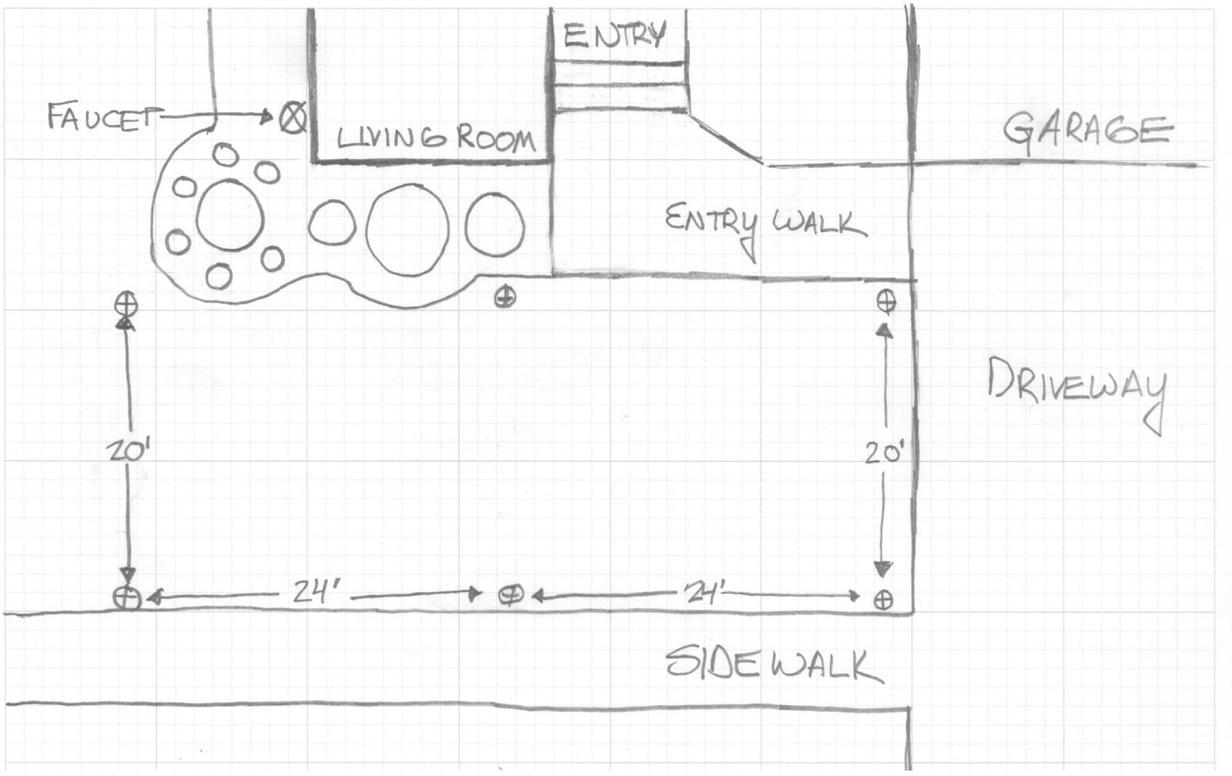
Top down view

Sprinkler Spacing Guidlines



* For overlapping sprinkler 'Head-To-Head' coverage.

Sample drawing



14457,14AU26,GUIDE,INSTALLATION,32ETI-2PORT.indd 15 8/14/26 5:33 PM

Winterization

Timer

IMPORTANT: The timer must not be left pressurized during freeze temperatures. Before cold weather, the timer should be removed from the hose bibb, drained and stored inside until warmer weather returns. Remove old batteries at the end of the watering season.

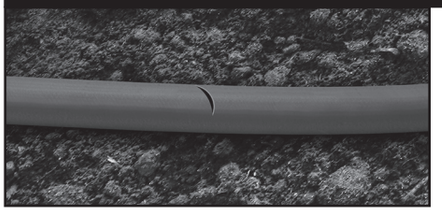
Sprinklers and Underground Tubing

The underground system itself should not need any special attention if you have located the underground drain valves correctly at the lowest point of each tubing run. If needed, contact a professional irrigation contractor to arrange for winterization blow-out service.

Repairing Leaks

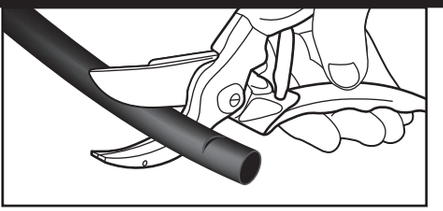
Occasionally when digging around your yard, you may nick the underground tubing. This is easy to repair. If you notice puddling anywhere in the watering layout, there may be a break in the underground tubing. To repair a leak, do the following:

Step 1



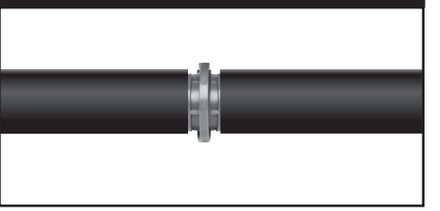
Dig carefully around the wet area to expose the tubing break.

Step 2



Cut tubing on each side of the leak.

Step 3



Splice with the barbed coupling.

Important: If tubing is damaged in more than one place, purchase additional Rain Bird .700 O.D. drip tubing from your dealer.

Replacement tubing TS70-50S
Barbed fitting BC50-4PKS

Questions?
Visit Rainbird.com or call
1-800-RAINBIRD

Rain Bird Corporation
6991 East Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird Corporation
970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (626) 812-3400
Fax: (626) 812-3411

Rain Bird International, Inc.
1000 West Sierra Madre Ave.
Azusa, CA 91702
Phone: (626) 963-9311
Fax: (626) 852-7343

www.rainbird.com

® Registered Trademark of Rain Bird Corporation
© 2026 Rain Bird Corporation

14457 Rev. 08/26