



*Gardeners Helping Gardeners Succeed*

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# Troubleshooting Irrigation Problems

Malfunctions aren't common, but when they occur, they're often due to one of the causes below. Refer to each product's specific operating manual for additional information.

## TIMERS

PROBLEM	CAUSE	SOLUTION
Water cycle repeats	Multiple start times set Season Adjust is set at more than 100%	Check program and turn off all but one start time Reset season adjust
Fuses blow regularly	Faulty valve solenoid Damaged or shorted wiring Faulty timer	Replace solenoid Inspect and repair wire Replace timer
LED display is blank	No power to timer Faulty transformer Blown fuse	Check outlet for power Replace transformer Replace fuse
Lawn is not watered	Timer is off Blown fuse Damaged timer/valve wiring Faulty transformer, timer or rain sensor device Program incorrect	Turn timer on Replace fuse Repair wire Replace, timer, sensor, or transformer  Check timer program
One zone does not function	Damaged wiring at timer or on manifold	Repair wiring
No water at one or all zones	Damaged wiring at timer and zone	Repair wiring

## ROTORS

PROBLEM	CAUSE	SOLUTION
Water doesn't spray from nozzle	Internal basket screen plugged with debris	Clean Screen
Sprinkler does not rotate	Not enough water pressure to rotate sprinkler Debris in sprinkler head Faulty sprinkler head	Split zone in two  Clean debris from sprinkler Replace sprinkler
Sprinkler rotates in one direction and stops	Not enough water pressure to rotate sprinkler Faulty sprinkler head Missing nozzle	Split zone in two  Replace sprinkler Replace nozzle

# VALVES

## PROBLEM

No water at sprinkler heads

## CAUSE

Main water supply valve is off  
 Faulty valve solenoid  
 Flow control at valve is closed  
 Zone valve wires not connected  
 Debris in valve, solenoid or metering orifice

## SOLUTION

Turn supply valve on  
 Replace solenoid  
 Open fully counterclockwise  
 Connect wires  
 Disassemble valve and clean with fresh water

One or more zones won't stop watering

Faulty valve diaphragm  
 Faulty valve  
 Damaged or cracked valve body  
 Damaged or cracked bonnet

Replace diaphragm  
 Replace valve  
 Replace valve  
 Replace valve

External water leaks at valve

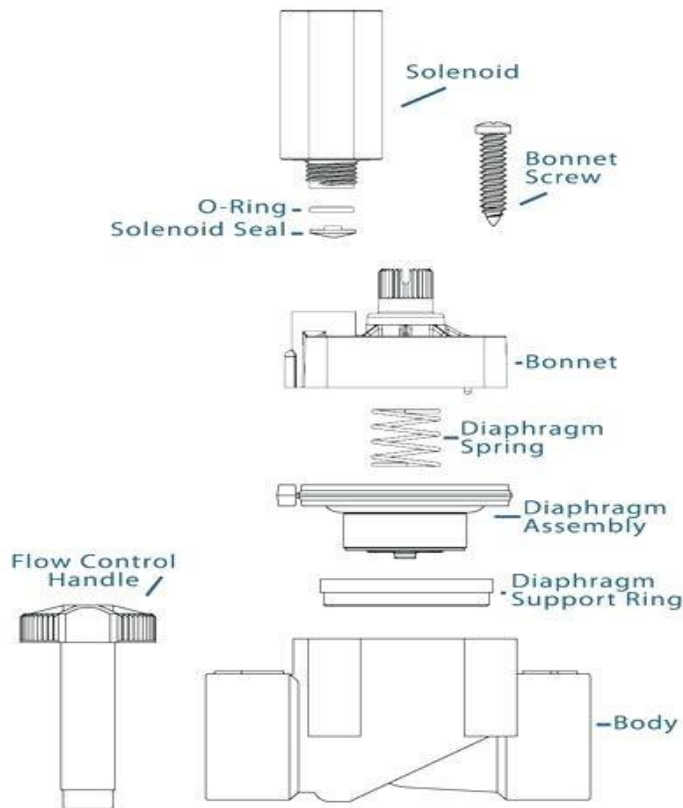
Damaged or cracked pipe and fittings  
 Damaged diaphragm

Check and replace as needed  
 Replace diaphragm

Water leaks from lowest Sprinkler on the line

Debris between diaphragm diaphragm seat  
 Damaged diaphragm  
 Debris in solenoid  
 Faulty solenoid  
 Valve manual bleed is open

Clear debris from valve  
 Replace diaphragm  
 Clean solenoid  
 Replace solenoid  
 Tighten by hand



## ALL SPRINKLERS

PROBLEM	CAUSE	SOLUTION
Sprinklers will not pop up	Not enough water pressure to run zone	Split the zone in two
	Master or zone valves not completely open	Open counterclockwise
	Flow control on zone valve not fully open	Open flow control
	Debris between sprinkler riser and riser seal	Clear debris
Sprinklers 'stick-up' after watering	Damaged riser or riser wiper seal	Replace sprinkler
	Damaged retraction spring	Replace sprinkler
	Radius adjustment screw turned off	Open counterclockwise
	Debris in nozzle	Remove debris
Water doesn't spray from nozzle	Internal filter clogged	Clean screen
Water flooding from sprinkler	Missing nozzle	Install nozzle
	Faulty or missing sprinkler head	Replace sprinkler

