Zone legend

Zone	Watering Days	Run Time	Location
1 .			
2			3.
3			
. 4			
5			
6		1,111 1,211	
7 .			
8			
Start Times	(maximum total of six)		
	Program A	or Program B	· · · · · · · · · · · · · · · · · · ·
1.			
2.			
3.			
4.		-	
5.			
	<u> </u>		

Lawn Genie. Electronic Sprinkler Timer

Installation and Operation Guide For Models DPC 4, DPC 4PS, DPC 6, DPC 6PS, DPC 8PS

	TIME HOURS MINUTES
A STANT WEEK 88-888	
	MANUAL DAY ONOFF
·	STARITA DAYSA ZONESA
	STARTE DAYSB ZONESB
Elawn Genie.	

Contents Introduction 3 is manual explains Features 5 w to install your vn Genie sprinkler Installation ner and program or the watering Connecting the valves 7 nedule that's right you. The following Programming ctions are arranged match the most icient installation Selecting the right Program10 guence. Refer to m in the order pre-Setting the run time and Program for each Zone 12 nted for best results. Setting the day schedules14 Additional information Installing a pump-start relay17 Special functions......19

Your Lawn Genie sprinkler timer is the heart of your

Introduction

automated watering system. It lets you supply different parts of your lawn and garden with precisely the water they require. exactly when they require it. All without any effort on your part once you've programmed your system.

gives you four ways to control how you distribute water to various parts of your yard. Here's how they work:

Your Lawn Genie DPC timer

Zone control

Lawns, shrubs, flower beds and other foliage all need different amounts of water. You can tailor the water delivered to different parts

it controls are called a Zone. Program" on page 10. The DPC 4 and DPC 4PS let Start times you divide your yard into as many as four Zones; the

a different run time to one

Each valve and the sprinklers

or more sprinkler valves.

DPC 6 and DPC 6PS allow

up to six; and the DPC 8PS

Programming options

permits a maximum of 8 Zones.

Certain parts of your yard may

need water every day. Other

parts may need water only

programming lets you divide

your Zones into two different

groups, and assign each

group a different interval

example, Program A may

water Zones 1, 3, 4 and 5

between watering days. For

twice a week. Dual

Your DPC timer lets you

may water Zones 2 and 6

daily. For details, see

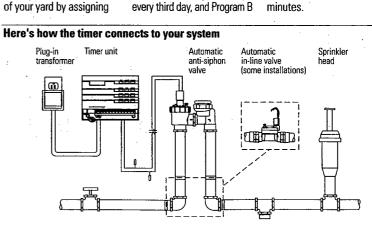
"Selecting the right

specify up to six different

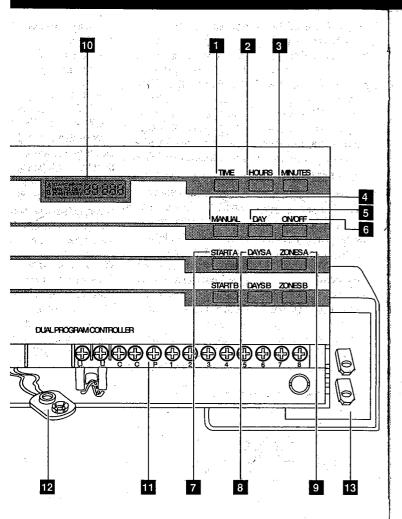
times to start watering the Zones it controls. Start times may be shared between Program A and Program B in any combi-

nation, for example, two start times in Program A; 4 in Program B, and so on. Watering run time

To deliver the correct amount of water to each Zone, you can program each Zone to shut off after a specified period of time-from 1 to 99 minutes.



Features



1 Time key

For setting time of day.

2 Hours key

For setting current hour and hours of start times.

3 Minutes key

For setting current minute and minutes of start times.

4 Manual key

For temporarily interrupting a watering cycle in progress, or manually starting a watering cycle at other than the programmed time.

5 Day key

For setting current day and watering days.

6 On/Off key

For preventing automatic watering during wet weather or winter.

7 Start keys

For setting up to six start times per day shared between Program A and B in any combination.

8 Days keys

For setting watering days for each Program.

9 Zones keys

For setting the run time and Program assignment for each Zone.

10 Display

Shows current time of day, Zone being watered and watering run time.

11 Terminal screws

For connecting valve wires to timer.

12 Battery connector

For installing 9-volt battery for backup power in case of power failure.

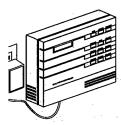
13 Plug-in transformer

For converting 120-volt household current into safe, low-voltage power. (250-volt source on 50 Hz units.)

Installing the timer

Connecting the valves

Select the location



A. Choose an indoor location near a standard 120-volt dual electrical outlet. (250-volt outlet for 50 Hz international units.)



CAUTION: Don't place the timer where temperatures may exceed 130⁰ Fahrenheit (55⁰ Centigrade), on a circuit controlled by a switch, or on the same circuit as a high power user (refrigerator, air conditioner, etc.).

Mount the timer



A. Install the timer mounting bracket at eye level using two screws.

Malfunctions may result.

B. Position timer over mounting bracket engaging tabs into recessed slots in back of timer housing. To lock in place, pull down on timer until tabs reach built-in stops.



NOTE: To install timer on a plaster or masonry wall, use plastic or lead shields to secure screws.

Wire the valves

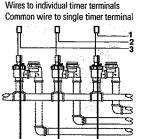
A. Run valve wiring underground wherever possible. For line runs less than 800 feet long, use 18-gauge, plastic jacketed thermostat control wire; over 800 feet, use 14-gauge wire. Your dealer can provide this wire in 2,3,4,5,6,7 and 8-wire color-coded strands.

B. Connect a single common wire to one of the wires from each valve.

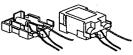
C. Solder or join all splices with wire nuts; then seal with vinyl or waterproof cement, or use Gel-Tite connectors to assure a water-resistant connection.

IMPORTANT: The power transformer is protected by an electronic circuit breaker. Do not connect a combination of valves requiring an inrush current of more than 1 amp at 24 VAC. (One valve only for

regular models. Two valves for PS-Series models.)



One wire from each valve connects to a single common wire running to timer.



Connect the valve wires to timer

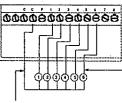
A. Run all valve wires up through hole in bottom of timer.

B. Connect the wire from valve number 1 to the terminal screw marked 1 on the timer; the wire from valve number 2, to the terminal 2, and so on. This allows your timer to

C. Connect the common wire to the terminal marked C.

selectively water the Zone controlled by a valve.

D. If using a water pump or master valve, refer to page 17 for installation details (PS-Series timers only).



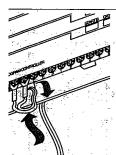
Single common wire connects all valves to Common

(C) terminal

Individual wires connect valves to separate terminals

Connecting the transformer and battery

Connect the transformer



A. Run the power cable from the transformer up through the smaller of the two openings in the bottom of the timer.

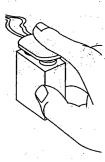
B. Connect one lead to each teminal screw marked 24V. Make sure terminals at the end of the cable do not touch.

C. Plug in the transformer.



CAUTION: Use with supplied transformer ONLY!

Connect the battery



A battery back-up system is built into your Lawn Genie timer to maintain your programmed watering schedule in memory in case of temporary power failure.

A. Connect a 9-volt alkaline battery (not supplied) to the battery connector in the wiring compartment of the timer case.

- B. Place the battery in the wiring compartment by pushing the connector end, in and under the transformer power cable terminals.
- C. Replace the wiring compartment cover.
- D. Replace the battery once a year. More often if frequent power failures occur.



CAUTION: Do not allow the battery connector to touch the transformer power cable, or the terminal wiring to the right. Do not connect or disconnect valve wires while any Zones are in operation.



NOTE: Check local codes to ensure that wiring and installation meet all requirements.

Selecting the current time and day number

In the timer's display, 13 Prepresents 12 PM, or noon, and PR represents 12 AM, or midnight. When the power is first turned on, the timer always displays a time

Set the current time:

- A. Press TIME
- B. Press and hold key down until display shows current hour and A (AM) or F (PM).
- C. Press and hold key down until display shows current minute. To advance time quickly, hold down or windles until desired time approaches. To advance time slowly, digit by digit, press HOURS or once for each hour or minute of advance.



NOTE: You must begin setting time within 10 seconds after pressing TIME . Otherwise, you must press TIME once again.

Set the current day number

- A. Press
- B. Press repeatedly until the current day number is displayed. Days are represented by the following numbers.

Sunday

Monday

Tuesday Wednesday

Thursday Friday

Saturday = 7

C. Press to return to the clock mode.





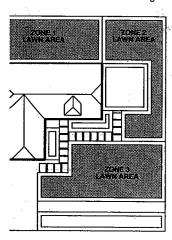


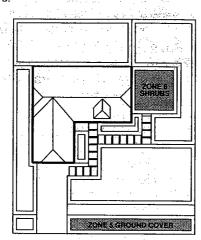
Selecting the right Program

Divide up your yard

To accommodate the special watering needs of different parts of your yard, you can assign Zones to two separate watering Programs (A and B). Each Program activates the Zones assigned to it as a group with its own specific set of watering days and start times.

Decide how frequently each Zone should be watered. If, for example, Zones covering lawn areas need water every day, and Zones covering shrubs and ground cover need water every third day, you might assign all lawn Zones to Program A and all shrub/ground cover Zones to Program B.





Setting start times

Assign start times to each Program

Now you're ready to select the times of day that each Program will begin watering the Zones assigned to it. Your timer lets you set as many as six start times a day shared in any combination between Programs A and B, ie. 2 in Program A, 4 in Program B, or 3 starts in each Program and so on. Remember, when you enter a start time for a program, all Zones in that program will water in sequence one after the other.

To set the start times for Program A

- A. Press START A
- B. Press and hold until display shows the desired hour and A (AM) or P(PM).
- C. Press and hold until display shows the desired minute (minutes advance in increments of 5).
- D. Repeat Steps A through C to set additional start times for all Zones in Program A.
- E. Press to return to clock mode.



Setting start and run times

Setting run times

To set the start times for Program B.



NOTE: Skip this step if all Zones will be set to run on the same day, using the same start times. Simply place all Zones in Program A.

A. Press start B

B. Press and hold until display shows the desired hours and \mathbb{H} (AM) or \mathbb{P} (PM).

C. Press and hold until display shows the desired minute (minutes advance in increments of 5).

D. Repeat Steps A through C to set additional start times for all Zones in Program B.

E. Press to return to clock mode.



NOTE: Since all Zones on a Program water in sequence, beginning with the lowest numbered Zone, make sure all Program start times are far enough apart to prevent watering cycles from overlapping. If overlap occurs, the timer will automatically delay the next start time to allow

completion of the current watering cycle. A watering cycle that runs past midnight will cancel any overlapping start times before midnight.

Setting the watering run time—how long to water

Your timer gives you a wide range of run times to provide precisely the right amount of water to each Zone. Run times may vary from 1 to 99 minutes.

Set Program A Zones

A. Press ZONES A once to display 195. This indicates Zone 1 is set to run for 5 minutes on the days assigned

Ato Program A.

B. If you want Zone 1 to remain in Program A, press until the desired run time appears. Display will increase up to 99 minutes, and begin counting again from one minute.

C. To remove Zone 1 from Program A, press to display 10FF.

D. Continue pressing and repeating Steps B and C until all Zones have been set to the desired run times or to DFF.

E. Press to return to clock mode.

1105 ZONE

15 ZONE

1 DFF ZONE

Set Program B Zones

A. Press once to display LOFF. This indicates Zone 1 is not set to run in Program B, because it's already assigned to Program A.

B. To transfer the Zone to Program B, press until the desired run time appears. Display will increase up to 99 minutes, and begin counting again from one minute.

C. To leave the Zone in Program A, press

D. Continue pressing ZONES B and repeating steps B and C until all Progam B Zones have been set to the desired run times or to DFF.

E. Press to return to clock mode.



IMPORTANT: You must set \$\iint\cap{F} \cong all Zones that are not connected or that you do not wish to water. Do this by pressing repeatedly until each Zone number to be set to TIFF appears, then press until display indicates IFF. Repeat this sequence

using for all unused Zones in Program B.

: [[[]] BZONE

1 (5 B ZONE

2 OFF BZONE

Setting watering day schedules

You can program a group of Zones to water either on

Setting watering day schedules

specific days of the week (Sunday through Saturday) or at specific intervals between watering days; (every day, every 2nd day, every 3rd day, etc.). If using the dual program option for example, you could schedule Program A Zones to water by days of the week and Program B Zones to water by day interval.

To set a Program to water on specific days of the week;

A. Press A. I is displayed (representing Sunday, see chart on pg. 9), and [15]. Program A Zones are now set to water on Sundays.

press the until DFF appears. C. Press to display day ξ (Monday), and set to ξ or ξ by pushing the cover key again.

D. Repeat the previous steps until all seven days of the week have been set, and CFF appears in the display. E. Press to return to clock mode.

F. Follow the same steps to set Program B for specific days of the week, using DAYS B

To set a Program for day intervals between watering days:

DAYS

A. Press pays repeatedly eight times until DAYS EVERY □FF is displayed.

B. Press repeatedly until the number of days desired between waterings appears, i.e. 1 indicates

C. Press to return to clock mode.

D. Follow the same steps if you wish Program B to water by day interval, using DAYS B

watering every day, 2 every other day, 3 every third day, etc.

NOTE: If setting a day interval schedule, today is the first watering day of that schedule, unless the start times have already passed. For example, if you press minutes until ∃ appears, and today is Monday, the program will water today and again

on Thursday. To change a Program from day-interval mode to day-of-the-week mode, press the appropriate or bays a key three times to display [] F.F. Then press once to display ! Lin. Continue programming from Step B of the "specific days of the week" section, page 14.

B. If you do not want Program A Zones to water on Sundays,

NOTE: The DPC timers have a preset factory program which will keep your system operating in the event of a power failure and an inactive battery. This preset program will start a watering cycle every day beginning at 2:00 AM, and will water all Zones for 5 minutes.

Typical program for lawn and garden Here's how you might use your Lawn Genie timer to program a watering schedule for a typical lawn and garden. Please refer to instructions on the preceding pages for details on specific keystroke procedures. Set watering day schedule for each Program: 1. For lawn areas: assign Zones to Program A for watering Mondays, Thursdays and Saturdays. 2. For shrub areas: assign Zones to Program B to water every other day. Set start times (up to a total of six per day) for both Programs: 1. Press to set 6:00 AM and 2:00 PM start times for Program A. Watering cycle will start at 6:00 AM in the lowest-numbered Zone assigned to Program A, and progress sequentially through all other Zones assigned to this Program. The cycle will begin again at 2:00 PM. 2. Push to set 10:00 AM start time for Program B. Watering cycle for the lowest-numbered Zone assigned to Program B will start at 10:00 AM and progress sequentially through all other Zones assigned to this Program. Set run times and Program assignments for each **Zone:**

under Program A.

under Program B.

48

5 15

1. Set Zones 1-4 to water lawn areas for 15 minutes

2. Set Zone 5 and 6 to water shrubbery for 15 minutes

Installing a pump-start relay—PS Series only

To connect your timer to a well pump or master valve:

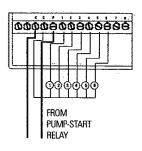
If your water doesn't come from the pipes of a standard public water supply, you may be using a pump to draw. directly from a well, pond, or similar source. In these cases, you'll need to make the following wiring connections so your sprinkler timer can activate the pump relay.

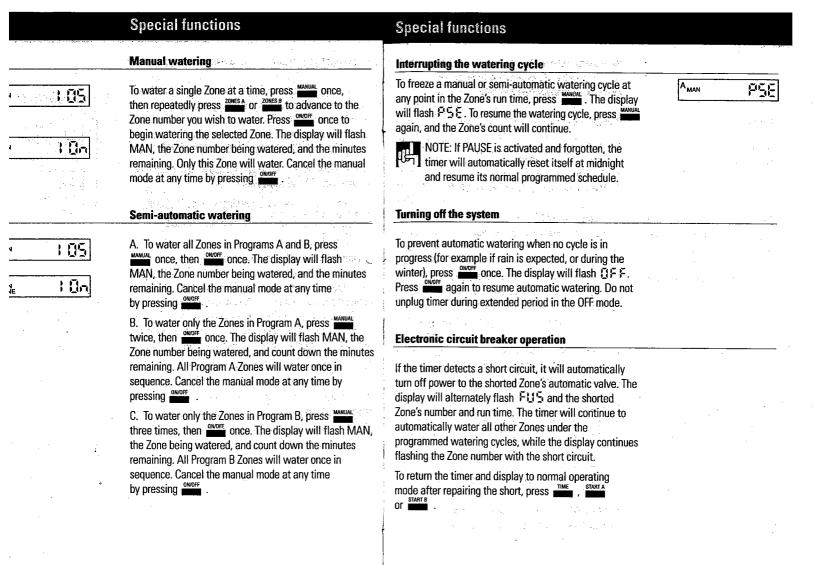
- A. Bring two wires up through the same hole in the timer cabinet used for the valve wiring.
- B. Connect one wire to the terminal marked P (PUMP).
- C. Connect second wire to the terminal marked C. (COMMON).
- D. For pump start relay installations, connect the two wires to an auxiliary relay with a coil rated at 24 VAC and a current no greater than 9 VA. Then wire the relay's contact to supply voltage to the pump's contactor. A qualified electrician can make these connections for you. A Lawn Genie 435 Pump Relay can be connected to the two wires to directly control a pump up to 2 HP at 240 volts.

E. For master valve installations, connect both wires to a master valve rated at 24 VAC and a current no greater than 9 VA.



NOTE: The timer's pump output will turn on whenever a Zone is watering manually or التحكا automatically.





rouble-shooting		Watering considerations	
oblem	Malfunctions aren't common, but when they occur, they're often due to one of these frequently overlooked causes. Possible Cause	If possible, schedule watering cycles in the early morning, when water pressure is at its highest. This allows ample time for water to soak in while evaporation and wind drift are low. Evening watering can leave foliage damp for too long, leading to mildew under some circumstances.	
e or more valves not water	 Faulty solenoid Poor wire connection Possible break in wire Valve flow stem screwed down too far 	In hot weather, plan on supplying about 1/2" of water every other day to a typical lawn. Clay soils do better with 1/4" every day to reduce runoff and puddling. Ask your local nursery for a schedule suited to the special weather and soil conditions in your area.	
\$5 and a Zone number are emately flashing on display d no watering will occur	Faulty solenoid Poor or shorted wire connection	Once you know how much water to supply, and how often, place a flat pan or other container on your lawn and measure how long it takes your sprinkler system to deliver that precise amount. Use these run times to	
ock won't keep correct time	 Timer on circuit controlled by a switch Timer on same circuit as high power user (refrigerator, air conditioner, etc.) Power failure and no battery or dead battery 	prevent over-watering.	
nes turn on when they're NOT ogrammed to start	Total combined run times have overlapped with another start time Too many start times		
ock has correct time and Zones pear to be functioning properly, t no valves will turn on	 One or more Zone are set to DFF The common wire is not connected Valve flow stem is screwed down too far 		
ne Zone won't shut off actrically	Faulty valve Particles of dirt or debris are stuck in valve		
	WARNING: Do not link two or more controllers using a common transformer or common wire.		
ır additional assistance, cal	l our Customer Service Hot-line (800)231-5117.		

Warranty

LIMITED WARRANTY

Lawn Genie warrants to the purchaser of its products for a period of one (1) year from the date of original purchase that any defective product proved to be caused by faulty workmanship or faulty materials, when installed per instructions and used in a normal manner, will be repaired or replaced at Lawn Genie's option at no charge, providing the product is received at the Lawn Genie factory, or authorized factory service center, with all transportation charges prepaid within one year of the date of original purchase. This warranty does not apply to damages or malfunctions resulting from accidents, misuse or neglect. Lawn Genie will not pay labor or other costs of removal or reinstallation of any so-called defective products.

NO IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO) FITNESS FOR A PARTICULAR PURPOSE, WHERE APPLICABLE, AND MERCHANTABILITY SHALL EXTEND BEYOND THE PERIOD OF THE EXPRESS WARRANTY DESCRIBED ABOVE. IN NO EVENT SHALL LAWN GENIE BE RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES TO PROPERTY WHICH MAY ARISE FROM OR RELATE TO THE PURCHASE OF ANY LAWN GENIE PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so one or both of the above limitations may not apply to you.

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

To exercise your warranty, send unit, with photocopy of dated receipt, postage prepaid to*:

Lawn Genie

788 Fairview Drive Carson City, Nevada 89701

Mailing Address: P.O. Box "A" Carson City, Nevada 87902

(702) 882-6786 (800) 231-5117