



PROGRAMMING AND OPERATING INSTRUCTIONS

CRC-8A, CRC-6A, CRC-4A

The CRC-A Controller has some important features you should be aware of before you begin programming. Details on how to implement these features will be described in the step-by-step instructions on the following pages.

- The CRC-A has a DUAL PROGRAM capability which allows watering of grass areas more often and/or on different days than shrub areas.
- The CRC-A has a PRESET PROGRAM which is built into the controller at the factory. If you do not wish to establish your own program, after updating the clock, the controller will operate each station for 10 minutes each day beginning at 8 A.M.
- The CRC-A has a DEFAULT MODE in which the controller will revert back to the PRESET PROGRAM should your own program be lost due to a prolonged power failure.
- The CRC-A has a 14 - day cycle. After completing watering on the 14th day, it will automatically repeat the cycle beginning with day 1.
- The controller has a backup battery circuit which will keep your program from being lost for up to 24 hours in the event of a power failure. Should the battery you supply go dead the entire display will blink to indicate the need for a new battery. Install a 9-volt alkaline battery to the battery

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Setting the Controller Clock



Determine the current day's code number from the chart below.



	MON	TUES	WED	THUR	FRI	SAT	SUN
WEEK 1	01	02	03	04	05	06	07
	MON	TUES	WED	THUR	FRI	SAT	SUN
WEEK 2	08	09	10	11	12	13	14

SET DAY *EXAMPLE: Today is Friday (05)*

DISPLAY WILL INDICATE:


1. Press 



2. Press  or  repeatedly






until correct code number appears in the display.

SET HOUR *EXAMPLE: Current Time of Day is 10:33 A.M.*



1. Press 



2. Press  or  repeatedly

hour minutes A.M.

To change A to P or P to A:

Press  or  repeatedly







A.M. P.M.

until correct letter appears in the display.

SET MINUTES

EXAMPLE: Current Time of Day is 10:33 A.M.

1. Press 
 2. Press  or  repeatedly
- until correct minutes appears in the display.



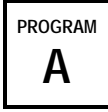

AT THIS POINT, THE CONTROLLER WILL OPERATE ON THE FACTORY PRESET PROGRAM; THIS WILL OPERATE ALL STATIONS FOR 10 MINUTES EACH, EVERYDAY OF THE WEEK, BEGINNING AT 8:00 A.M.

IF YOU WISH TO ESTABLISH YOUR OWN PROGRAM, FOLLOW THE PROGRAMMING INSTRUCTIONS WHICH FOLLOW.

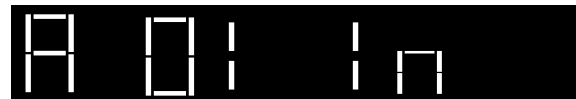
Establishing Your Own Program

1. Which days to water...

EXAMPLE: To water on Monday of the first week (Day 01)

1. Press 
2. Press 

DISPLAY WILL INDICATE:





Program
A

Monday of
Week 1

Watering will
occur when
"In" appears

EXAMPLE: To NOT water on Tuesday of the first week (Day 02)

1. Press 
2. Press 

DISPLAY WILL INDICATE:

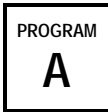





Watering will not
occur when "In"
does not appear

Repeat the above steps 1 and 2 for each of the remaining days in the 14 - day cycle.

2. What time to start...

EXAMPLE: You want to start watering at 5:00 A.M.

1. Press 
 2. Press 
 3. Press  or  repeatedly
- until display shows:




DISPLAY WILL INDICATE:

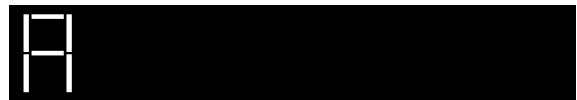


If you wish to water more than once a day (for a maximum of 3 times per day)

EXAMPLE: 2nd watering time at 4:45 P.M.

DISPLAY

1. Press 
 2. Press  or  repeatedly
- until display shows:

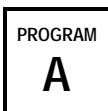





For a 3rd watering time, repeat steps 1 and 2 above.

3. How long at each station...

You may water from 1 minute up to 6 hours at each station.

EXAMPLE: To operate station #1 for 20 minutes

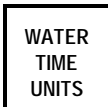
1. Press 
 2. Press 
 3. Press  or  repeatedly
- until display shows:

DISPLAY WILL INDICATE:



Program A Station Watering Time Minutes

To change from minutes to hours or hours to minutes:


- Press 






Program A Station Watering Time Hours

4. Set watering time for next station.

EXAMPLE: Set watering time for station #2 for 30 minutes.

1. Press 

2. Press 

3. Press  OR 

until display shows:


DISPLAY WILL INDICATE:

Program	Station	Watering Time	Minutes
A	02	10	n
A	02	30	n

Set watering times for remaining stations by repeating steps 2 and 3.

NOTE: If you do not want a station to operate, set the time to zero.

EXAMPLE: No watering at Station #3.

1. Press 

2. Press 

3. Press  OR 

until display shows:

DISPLAY WILL INDICATE:

Program	Station	Watering Time	Minutes
A	03	10	n
A	03	00	n

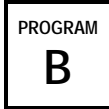

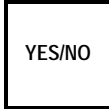
The 'B' Program

The B Program provides added flexibility to your watering schedule. It can be used in conjunction with the A Program to provide up to 6 start times per day, per station, or it can be used independently to provide start times and watering times different than those of the A Program.

EXAMPLE: On the A Program, we set Station #1 to water twice on Monday, @ 5:00 A.M. and again @ 4:45 P.M. for 20 minutes each time.

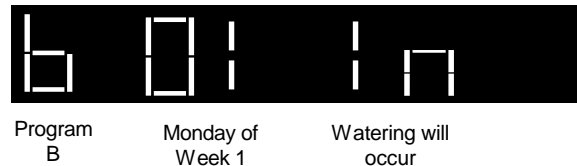
If you want to add a 3rd start time for Station #1 on Monday, but would like it to remain on for one hour rather than 20 minutes, you can use the B Program as follows: (continued on the next page)

EXAMPLE: To water on MONDAY (@ 10:00 P.M. for 1 hour)


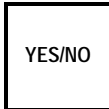
- 1. Press 
- 2. Press 
- 3. Press 

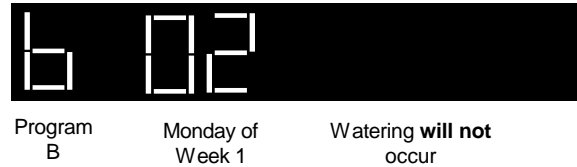
until display shows:

DISPLAY WILL INDICATE:






EXAMPLE: NO watering on Tuesday.

- 1. Press 
- 2. Press  until display shows:



Repeat the above steps for each of the remaining days in the 14 - day cycle.




EXAMPLE: To START TIME for 10:00 P.M.

- 1. Press 
- 2. Press  or 

until display shows:



EXAMPLE: To set WATERING TIME for 60 minutes

- 1. Press 
- 2. Press  or 

until display shows:



Writing Your Program

After Programming Is Complete

Once you have completed programming your CRC-A controller, you can return it to displaying the correct time of day as it waits in the automatic mode for the correct time to start. To do this,

Press either

SET CLOCK HOUR

 or

SET CLOCK MINUTE

 and your programming is complete.

Tidbits and Items to remember:

The nine-volt, alkaline battery you supply will protect the program memory for up to 24 hours during a power outage. Without a battery, even a momentary power interruption (fractions of a second) will cause memory loss. Studies have shown that such momentary power interruptions happen many times per day in the average household. Remember to install a nine-volt alkaline battery to the battery clip (in the bottom compartment of the controller cabinet) as noted in the installation instructions for this unit.

In the event of a long power outage completely using up your battery's power, the default program will be in effect when power resumes. This default program will automatically operate a special "A" program only, and water every station of the controller once a day for 10 minutes each. (See the DEFAULT PROGRAM section at the back of this manual for details.)

In item #2 of this manual "What time to start..." you learned how to set, how to change, and how to add starting times for your CRC-A controller to begin a cycle. If you wish to ELIMINATE A START TIME from a program, the procedure is quite simple. First, press the "Program A" or "Program B" key so the controller knows which program you desire to change. Then press the "Water Times Per Day" key one, two, or three times until the start time you wish to eliminate appears in the display. Now press either the "Change Time" up or "Change Time" down key until the time in the display reaches the blank point at midnight. The start time is now eliminated.

If you were eliminating this start time and the controller was in a cycle, touch the "Monitor While On" key to get back to a display of the cycle's progress. If the controller was not operating a cycle, simply touch either the "Set Clock Hour" or "Set

Writing Your Program



These program tables may be cut out and affixed to the inside of the controller door for handy reference.

1. Which days to water

DAYS TO OPERATE		
Day		"A" "B"
(M)	1	_____
(Tu)	2	_____
(W)	3	_____
(Th)	4	_____
(F)	5	_____
(Sa)	6	_____
(Su)	7	_____
(M)	8	_____
(Tu)	9	_____
(W)	10	_____
(Th)	11	_____
(F)	12	_____
(Sa)	13	_____
(Su)	14	_____

2. What time to start

START TIMES	
"A"	"B"
_____	_____
_____	_____
_____	_____

3. How long at each station

STATION TIMES		
Sta.#	"A"	"B"
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____
6	_____	_____
7	_____	_____
8	_____	_____



Operating Instructions

Whenever the Controller is in operation (in a cycle) the display will show the station number (for the station in operation) and the remaining time it has left to operate (time is "counting down").


While the Controller is in operation you can display - "Time of Day" - "Start Times" (for "A" or "B" programs) - "Water Days" or "Station # and Time" - without interrupting the actual operation of the cycle in progress.

1. Display Time of Day

Time of day may be displayed at any time by pressing

either  OR 


To get back to "Station in Operation"

Press  Display will revert back to the program it had been operating before interrupted and display will indicate its current status in the program.




2. Display Day of Week

Press  to display the day of the week

To get back to "Station in Operation"

Press 

3. Display Station Water Times

Press  OR  then 

to display station water times for either "A" or "B" programs.

Each time you press  the next station will be displayed.

4. Display Start Times (For “A” and “B” Programs)

Press

PROGRAM A

 or

PROGRAM B

 then

WATER TIMES PER DAY

to display start times for either “A” or “B” programs.

To display all three (3) start times of the program, press

WATER TIMES PER DAY

 two (2) more times.

Each time

WATER TIMES PER DAY

 is pressed, the next start time will be displayed.
(A “blank” display indicates **no** start time programmed.)

5. Display Water Days (For “A” and “B” Programs)

Press

PROGRAM A

 or

PROGRAM B

 then

WATER DAYS

to display water days for either “A” or “B” programs.

Each time

WATER DAYS

 is pressed, the next day of the 14 day cycle will be displayed.
(“In” indicates **watering**; “blank” indicates **no watering**.)

6. Manually Start a Program

Press

PROGRAM A

 or

PROGRAM B

 then

MANUAL START

Each station will operate in sequence for its programmed watering time.

7. Manually Advance to Another Station

Press

MANUAL ADVANCE

 and the station currently operating will stop.



The next station in sequence will then operate for its programmed watering time.


Each time


MANUAL ADVANCE


 is pressed, the controller will advance to the next station, which will then operate for its programmed watering time.

8. Manually Start a Single Station

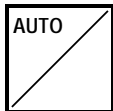
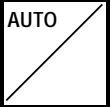
Press  or  to display the desired program.

Press  to display the station you desire to operate.

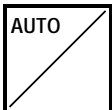
Each time  is pressed, the next station will be displayed.

Then press  Now, the station selected will operate for the regular programmed time (either program A or B) and shut off. The controller will then revert to its normal automatic mode.

9. Manually Cancel a Program

To “cancel” a program that is in operation, press  to “OFF” (flashing “A” or “P”) then press  again. The controller will revert to its normal automatic mode.

10. Rain Shutdown

Press  and the display will revert to “time of day.”

Example:



The “A” (A.M.) or “P” (P.M.) character will blink to indicate that the controller is in rain shutdown condition.

NOTE: Rain Shutdown will keep the normal clock running and the current programming intact, but **all** output will be interrupted.

The following DEFAULT program will be in effect at the time of *initial* power "UP" or any time that set programs are lost.

DEFAULT PROGRAM

DAYS TO OPERATE				START TIMES		STATION TIMES			
Day		"A"	"B"	"A"	"B"	Sta.#	"A"	"B"	
(M)	1	Yes	-	8:00 A.M.	-	1	10 mins.	0	
(Tu)	2	Yes	-	-	-	2	10 mins.	0	
(W)	3	Yes	-	-	-	3	10 mins.	0	
(Th)	4	Yes	-	-	-	4	10 mins.	0	
(F)	5	Yes	-	* If clock is set to correct time of day. Otherwise, program will start 8 hours after power is applied.			5	10 mins.	0
(Sa)	6	Yes	-				6	10 mins.	0
(Su)	7	Yes	-				7	10 mins.	0
(M)	8	Yes	-				8	10 mins.	0
(Tu)	9	Yes	-						
(W)	10	Yes	-						
(Th)	11	Yes	-						
(F)	12	Yes	-						
(Sa)	13	Yes	-						
(Su)	14	Yes	-						

This controller generates radio frequency energy and may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- move the controller away from the receiver
- Plug the controller into a different outlet so that controller and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/ television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How To Identify and Resolve Radio - TV Interference Problems"

This booklet is available from the U.S. Government Printing Office, Washington, D.C.



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