



THE IRRIGATED
Water Systems

LC-1

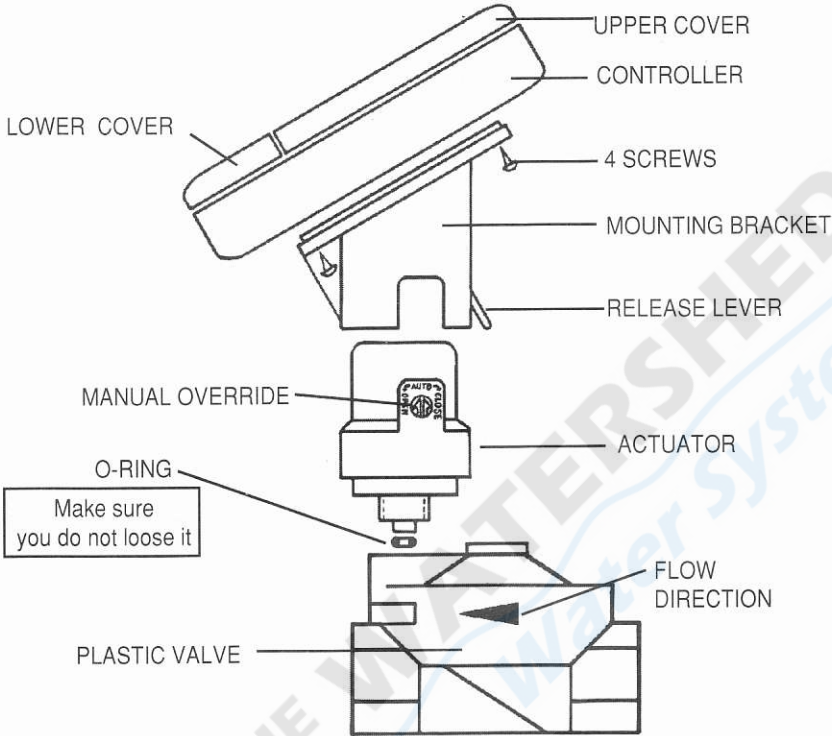
Irrigation timer

User's manual

LEGO[®]
IRRIGATION EQUIPMENT



LC-1 ASSEMBLY INSTRUCTIONS.



VALVE ASSEMBLY

Screw the **actuator** clockwise until it reaches the bottom of the cavity.

NOTE: a small O-RING (Parker N° 2-006) must first be inserted as shown.

DO NOT USE TOOLS TO TIGHTEN THE ACTUATOR.

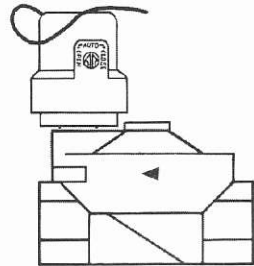
DO NOT OVER TIGHTEN IT.

Connect the valve assembly to the water line.

Make sure that flow arrow on the valve shows the right flow direction.

Once connected to the water system, turn on the water to detect eventual leakage (OPEN and CLOSE the valve with the actuator manual override). Return the override to AUTO.

Please note: you have to turn the red arrow all the way 180° to the desired position.



CONTROLLER ASSEMBLY (for valve mounting only)

Connect the mounting bracket to the back of the controller using the 4 screws.

FINAL ASSEMBLY

Place the controller assembly over the actuator until it snaps into position. Make sure the actuator wire is free and clear out of the bracket.

WIRE CONNECTION

Do not remove the rubber plug on the bottom of the controller. Use the hardened tip of the wire to punch a hole in it and thread the wires through. Using a coin, remove the lower cover and connect the wires to the terminal blocks as shown below. CONNECT THE BLACK & WHITE wire to "+" (Plus) and the BLACK wire to "-" (Minus).

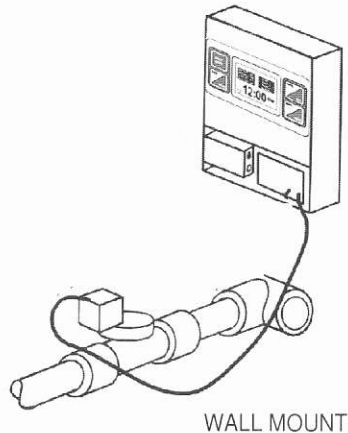
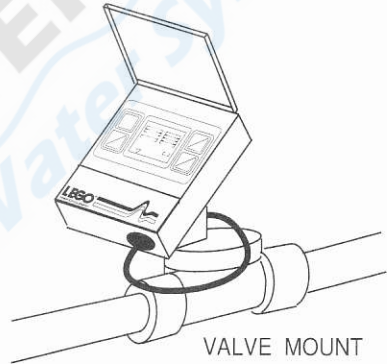
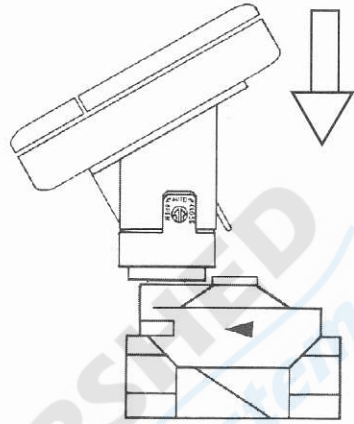
BATTERY CONNECTION

(Battery not supplied)









Connect a 9V ALKALINE battery and place it into its compartment. The display will flash 3 times showing all the segments followed by the "OFF" command , resetting the actuators to the "CLOSE" position. Close the lower cover.

WALL MOUNT

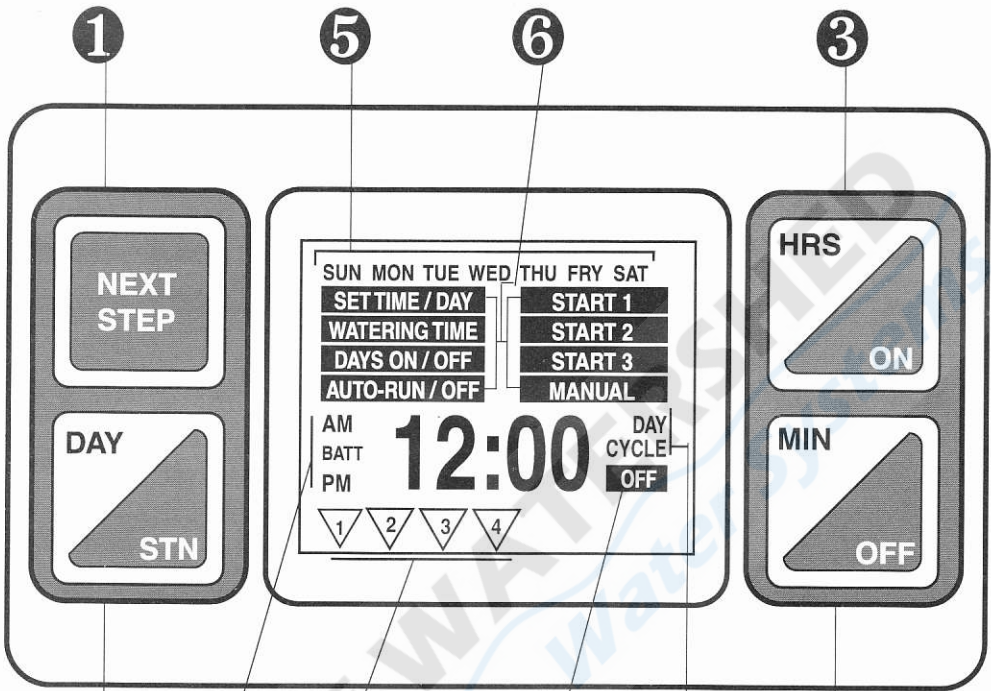
Mount the unit on a wall by sliding the 2 slots found on the back of the unit over 2 screw heads, place 90mm apart.



IMPORTANT INFORMATION

- The  button leads you through the programming steps.
- **If you are lost** or wish to go to **MANUAL**, press  continuously for a few seconds until display shows **MANUAL** ;
press  again to advance to **AUTO-RUN / OFF** which is the automatic running stage.
Press  to start programming again.
- Auto return. If within 3 minutes, you do not touch any button, the controller will automatically go to **AUTO-RUN / OFF**.
- If you press  or  continuously, the digits will advance quickly.
- Setting reset : if you press  and  simultaneously, the digits will reset back to "0".
- Watering days can be programmed in two ways:
 1. You can identify the **day of the week** for watering (SUN, MON, TUE etc...)
 2. You can choose the **number of days' interval** between waterings (a 2 day cycle means that the watering will take place every two days.)

CONTROL PANEL



CONTROL BUTTONS

- 1. NEXT STEP** button
Used to advance program steps.
- 2. DAY / . STN** button
Used to advance DAYS or STATIONS.
- 3. HRS / ON** button
Used to change HOURS or "ON" function.
- 4. MIN / OFF**
Used to advance MINUTES or "OFF" function.

DISPLAY INDICATORS

- 5. DAYS OF THE WEEK.**
- 6. PROGRAM STEPS INDICATOR.**
- 7. BATT:** indicates low battery.
- 8. STATIONS n^o** indicators.
- 9. OFF:** The controller is in RAIN-OFF mode.
- 10. DAY CYCLE :** indicates irrigation programming by interval of days between waterings.

The display shows:

Do:

PROGRAM STEPS

SET TIME / DAY

- Press **DAY** to set today's day
- Press **STN HRS** to set the present hour
- Press **MIN OFF** to set the minutes
- Press **NEXT STEP** to advance to the next program step **WATERING TIME**

WATERING TIME

0:30



- Press **HRS ON** to set the hours of the watering duration for this station
- Press **MIN OFF** to set the minutes
- Press **NEXT STEP** to advance to the next program step **DAYS ON / OFF**

How long you wish to water

DAYS ON / OFF



- Press **MIN OFF** if you do not want to irrigate on the flashing day
- Press **HRS ON** to irrigate on the flashing day
- Press **NEXT STEP** to stay with the weekly program **OR** Press **MIN OFF** to select your DAY CYCLE:

The days will flash one after the other

DAY CYCLE

Select 1 this station will operate every day
Select 2 this station will operate every 2nd day
Select 3 this station will operate every 3d day

To reset back to 0, press **HRS ON** & **MIN OFF** simultaneously.

- Press **NEXT STEP** to advance to the next program step **START 1**

You can have 3 starts per day

START 1

7:00

START 2

START 3

- Press **HRS ON** to set the hours of the 1rst starting time for this station
- Press **MIN OFF** to set the minutes.
- Press **NEXT STEP** to advance to the next program step and program additional watering starts for this station on the same day

- Press **NEXT STEP** to advance to the next program step **MANUAL**

MANUAL



Press **HRS ON** to open the valve of the flashing station

Press **MIN OFF** to close the valve



Press **NEXT STEP** to go to AUTO-RUN / OFF

GENERAL INFORMATION

Battery replacement.

As soon as the low battery indicator BATT flashes, the 9V battery must be replaced.

After battery disconnection the program will remain in memory for 10 seconds until reconnection to the new battery.

Operating conditions.

The controller is designed for outdoor operation. However it is recommended to place it in a protected area.

Keep the cover closed at all times.

In winter, the controller can be removed from the valve and stored indoors for better protection. Only the actuator wires should be disconnected.

By keeping the battery connected, the program will remain in memory until reconnection of the controller.

Manual override.

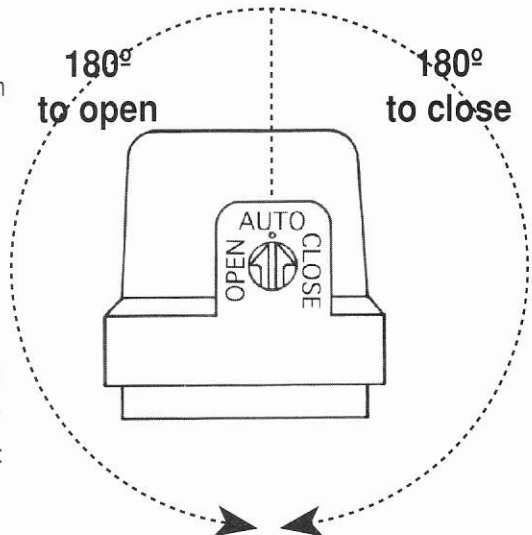
The manual override allows you to open or close the valve mechanically. The actuator is factory set on AUTO.

TO OPEN THE VALVE: turn the arrow COUNTER-CLOCKWISE, 180° and return it back to AUTO; the valve is open.

TO CLOSE THE VALVE: Turn the arrow CLOCKWISE 180° and return it back to AUTO; the valve is closed.

TO "LOCK" THE VALVE: If you wish to keep the valve in either OPEN or CLOSED position, keep the arrow pointed in 180° direction without returning it to AUTO in any of the 2 previous steps.

TO RESUME AUTOMATIC OPERATION: return the arrow to AUTO.



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Water systems

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