

## START HERE

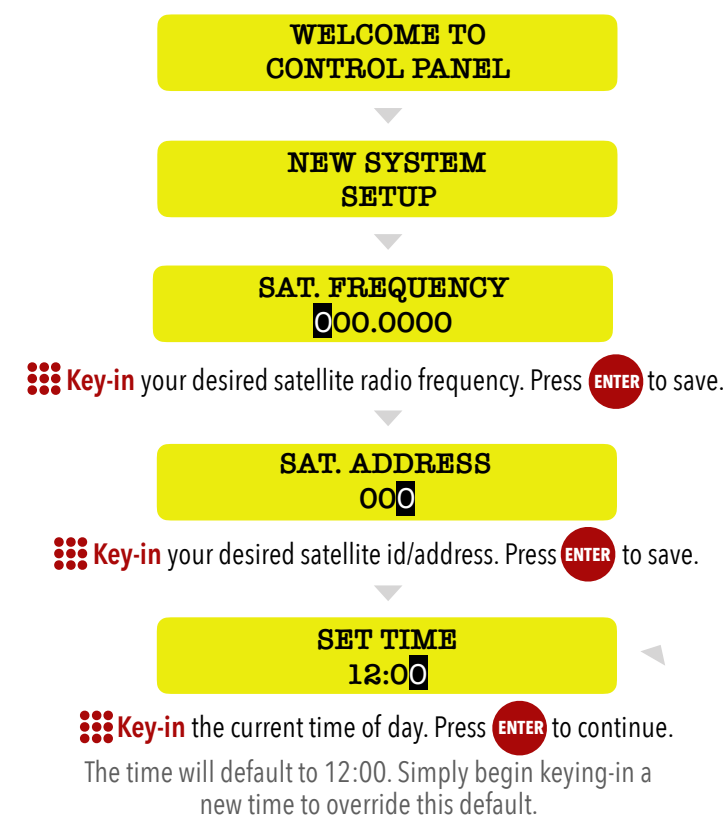
# Install



1. Remove your existing receiver/decoder module and plastic bezel from your controller.
2. Slide the Control Panel & metal bezel into place, using the two screws at the top to mount the unit to the controller.
3. Connect the Control Panel cable to your power distribution board.
4. Screw the white antenna clockwise into its mount.

# New System Setup

Once Control Panel is installed, power-on your controller. You will see the following messages, in sequence:



**SET TIME**  
12:45 1=AM 2=PM

Press **1** for AM or **2** for PM.

**SET TIME**  
12:45 PM

Press **ENTER** to confirm your chosen time and continue, or press **CLEAR** to enter a new time.

**SET DAY: SUN**  
S - M - T - W - T - F - S

Use **Left/Right** arrows to choose the current day of the week.

Press **ENTER** to complete the **New System Setup** process.

**Control Panel is now live, functional, and integrated with your irrigation system. No further setup is required!**

**SET DAY/TIME**

Press this button from anywhere in Control Panel to go back and change the day/time you specified in **New System Setup**.

## SIGNAL TEST

Press this button from anywhere in Control Panel to take you to the **SIGNAL TEST** area.



Use the right and left arrows to side-scroll through screens within the **SIGNAL TEST** area.

### • LIVE RADIO SIGNAL STRENGTH SCREEN •

← NO SIGNAL... →  
SEND COMMAND

This screen will show you the LIVE radio signal strength of any command currently being received. To see it in action, send Control Panel a command and watch the screen change to something like this:

← GOOD<sup>1</sup> →  
91dB ██████████

### • AVERAGE RADIO SIGNAL STRENGTH SCREEN •

← AVERAGE SIGNAL<sup>2</sup> →  
93 dB (GOOD)

Displays the average radio signal strength of the last 10 commands received.

### • RADIO SIGNAL LOG SCREEN •

← SIGNAL LOG →  
ENTER to view

View a detailed radio signal strength log of (up to) the last 10 commands received.

Press **ENTER** to view the signal log.

### • RADIO SIGNAL LOG ENTRY SCREENS •

← SUN 06:04 AM →  
97dB ██████████

This screen represents the first and most recent entry in a log that details the radio signal strength of the last 10 commands received.

**Left** moves **back in time** through the log. **Right** moves through the log in the opposite direction. Press **SIGNAL TEST** to exit the log.

### • RAIN HOLD SCREEN •

← RAIN HOLD<sup>3</sup> →  
1 = on [2] = OFF

Press **1** to prevent Control Panel from irrigating or **2** to disable this feature.

### • UNIVERSAL PROGRAM RUNTIME ADJUSTMENT SCREEN •

← PGM RUNTIME →  
ADJUST: 100%<sup>4</sup>

Adjust the runtimes of all **PROGRAMS** (does not affect **MANUAL** operations), allowing you to quickly vary the amount of water used with different weather or circumstances. **Key-in** your desired percentage. Press **ENTER** to save.

Side-scrolling through the rest of the **SETUP** screens will allow you to:

- Edit your satellite radio frequency and satellite ID/address (which you chose during **New System Setup**).
- Enable or disable the audible beeper that is heard when Control Panel receives a command.
- Permanently erase all programmed irrigation entered into Control Panel.
- Reset the receiver/decoder processor within Control Panel.
- Factory reset Control Panel, which erases all **PROGRAMS** and settings and brings the unit back to its factory state (you will see **New System Setup** prompts when the unit boots back up).

## SETUP

Press this button from anywhere in Control Panel to take you to the **SETUP** area.



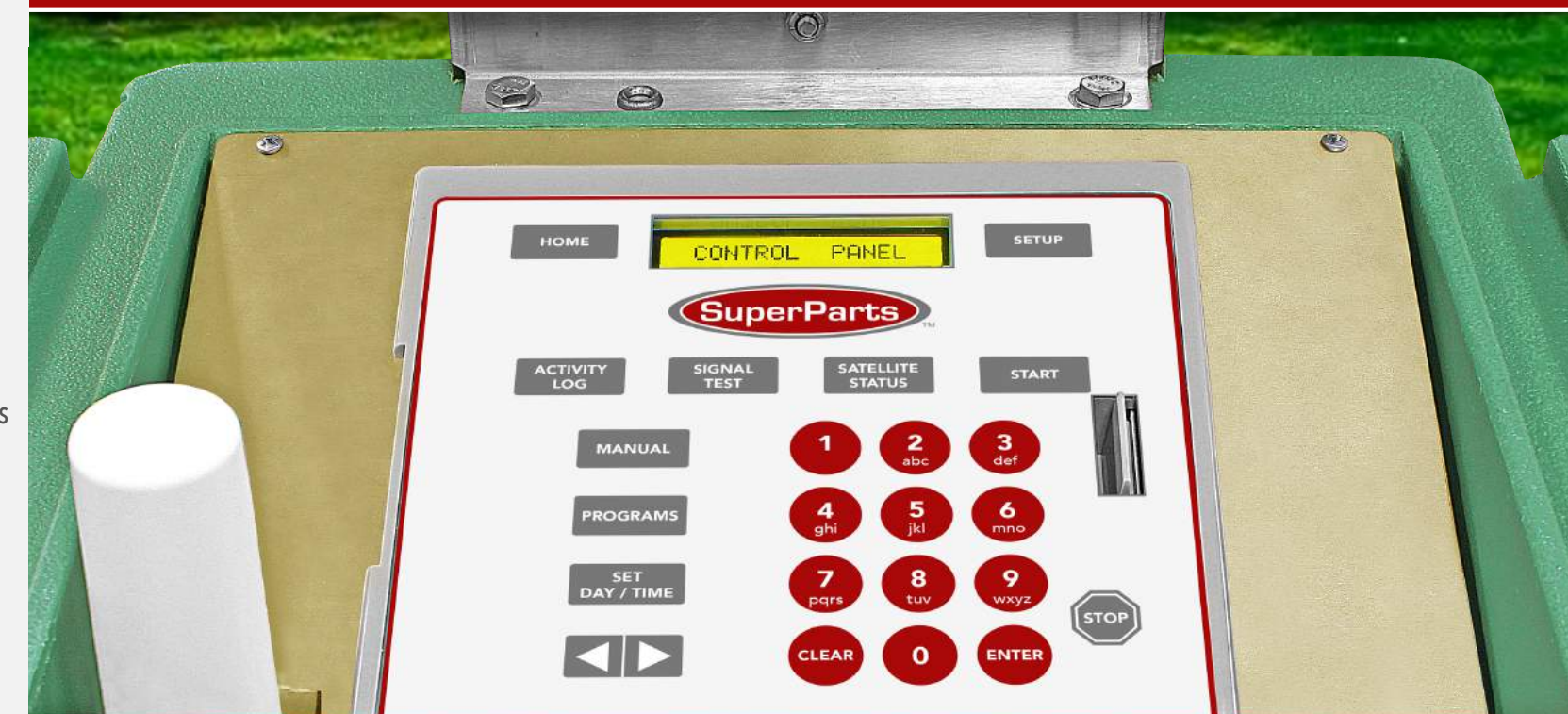
Use the right and left arrows to side-scroll through screens within the **SETUP** area.



Press this button at any time to immediately cease all current watering activity. Useful in emergencies.

# Welcome to Control Panel

## Owner's Manual



<sup>1</sup> GOOD signal: < 95dB  
FAIR signal: 95dB to 104dB  
POOR signal: > 104dB

<sup>2</sup> If Control Panel has received less than 10 commands, you'll instead see a screen displaying how many samples have been received so far—at least 10 signal samples are needed before an average can be displayed.

<sup>3</sup> Default is OFF. Only applies to **MANUAL** and **PROGRAMS** functionality entered via Control Panel. This feature does not affect central programs or radio commands.

<sup>4</sup> Default is 100%, which means all **PROGRAMS** run for their total specified runtimes. Changing this setting to 50%, for example, would cut all programmed irrigation runtimes in half.

**BOARD TRONICS**

Email: [controlpanel@boardtronics.com](mailto:controlpanel@boardtronics.com) Call: 1-800-782-9938



## HOME

Press this button from anywhere in Control Panel to take you to the HOME screen.

## MANUAL

Press this button from anywhere in Control Panel to take you to the MANUAL irrigation area.

Control Panel manual functionality allows you to manually start up to nine stations, with specific runtimes for each station, either simultaneously or sequentially.



The nine manual options in your control are labeled A through I for your reference. **With the cursor in the top row**, use the right and left arrows to quickly side-scroll through all manual options.

## PROGRAMS

Press this button from anywhere in Control Panel to take you to the PROGRAMS area. **Continue to press this button** to navigate through menu items once inside a specific programming menu.

Control Panel programmed irrigation functionality allows you to set up to 16 custom irrigation programs where you can start up to 64 different stations with a custom runtime for each station. Each program can also contain up to four different start times per day and is capable of running all seven days of the week.

### • DEFAULT HOME SCREEN •

CONTROL PANEL 64<sup>1</sup>  
TUE 11:13:06 AM

### • IRRIGATION ACTIVITY HOME SCREEN •

MANUAL<sup>2</sup> CYCLE<sup>3</sup>  
02 04 06 10 16<sup>3</sup>

Displayed when irrigation activity via MANUAL or PROGRAMS is occurring.

### • MANUAL TYPE SELECTION SCREEN •

MANUAL TYPE  
1=SIMUL 2=SEQTL

Press **1** to start stations simultaneously or **2** to start stations sequentially.

### • MANUAL OPTION SCREENS •

← MANUAL A: 00<sup>4</sup> →  
TIME OOH:OOM:OOS<sup>5</sup>

**Key-in** a station number of your choice, and press **ENTER** to move to the bottom row.

**Key-in** the number of hours, minutes, and seconds you'd like the station to run for, pressing **ENTER** after each entry to quickly move to the next time unit.

After completing/moving through a runtime, you are, by default, taken to the next **MANUAL OPTION SCREEN (A-I)** for convenient consecutive entry.

When ready, press **START** from any of the **MANUAL OPTION SCREENS** to begin your manual operation.

**Key-in** can also be used to move through the time units in the bottom row. Press **Key-in** from hours to move back up to the top row.

### • PROGRAM SELECTION SCREEN •

PROGRAM #01

Control Panel contains 16 local programs that you can edit, labeled 1 through 16 for your reference. By default, they are all blank until you edit them.

**Key-in** a program number of your choice, and press **ENTER**.

**You are now inside a dedicated programming menu for the specific program number you entered**, denoted in the upper left hand corner "P#" of all screens. Any changes you make within this menu are automatically saved for your convenience.

Continually pressing **PROGRAMS** cycles you through six main menu items that allow you to choose cycle type, stations & runtimes, time units, start times, start days, and runtime adjustments. The menu then loops back to the original **PROGRAM SELECTION SCREEN**, allowing you to either change your program number and enter a new menu, or continue right back through the same program's menu.

### MENU ITEM #1 • CYCLE TYPE SCREEN •

← P1<sup>6</sup> CYCLE TYPE →  
1=SIMUL<sup>7</sup> 2=SEQTL

Press **1** to start stations simultaneously or **2** to start stations sequentially.

<sup>1</sup> Number of stations Control Panel recognized at the time of the most recent power-up.

<sup>2</sup> Displays "MANUAL" or "AUTOMATIC" depending on which type of operation is running.

<sup>3</sup> Specific station numbers that are currently running.

<sup>4</sup> Your desired station number

<sup>5</sup> Your desired runtime

<sup>6</sup> Program number

<sup>7</sup> Control Panel will simultaneously run up to nine stations at a time, from lowest station numbers to highest station numbers.

## PROGRAMS

(CONTINUED)

**Continue to press this button** to navigate through the six menu items once inside a specific programming menu.

### Want to manually start a program right now?

From any location within the program's menu, press **START**.

## ACTIVITY LOG

Press this button from anywhere in Control Panel to take you to the ACTIVITY LOG area.



Use the right and left arrows to side-scroll through all screens within the ACTIVITY LOG area.

### MENU ITEM #2 • STATION & RUNTIME SCREENS •

← P1 STATION #01 →  
RUNTIME: OOH:OOM

**Key-in** or navigate **Key-in** to a station number of your choice, and press **ENTER** to move to the bottom row.

**Key-in** the number of hours/minutes you'd like the station to run for, pressing **ENTER** after each entry to move forward. <sup>1</sup>

**Key-in** can also be used to move between the time units in the bottom row. Press **Key-in** from hours to move back up to the top row.

### MENU ITEM #3 • TIME UNITS SCREEN •

← P1 TIME UNITS  
[1] = HH:MM<sup>2</sup> 2 = mm:ss

Press **1** to set your time units to hours/minutes or **2** for minutes/seconds. Press **Key-in** to conveniently navigate right back to the **STATION & RUNTIME SCREEN** (without having to cycle through the entire programming menu to get back).

### MENU ITEM #4 • START TIME SCREENS •

← P1 START TM#1 →  
-- : -

This screen controls the four possible daily start times for the program. **Key-in** a time of day, press **ENTER**. Press **1** for AM or **2** for PM. Press **ENTER** to confirm your start time.

**Key-in** can be used to quickly side-scroll through the four possible start times.

### MENU ITEM #5 • START DAYS SCREEN •

P1 DAY 1=Y, 2=N  
← s - m - t - w - t - f - s<sup>3</sup> →

This screen controls the day(s) of the week the program will execute at your specified start times. Use **Key-in** to scroll to your chosen day(s), then press **1** to activate. Press **2** to deactivate a day you have already activated. Activate up to all seven days!

### MENU ITEM #6 • RUNTIME ADJUSTMENT SCREEN •

P1 RUNTIME  
ADJUST: 100%<sup>4</sup>

Adjusts the runtimes of all stations within the program, allowing you to quickly vary the amount of water used in a given program with changing weather or circumstances.

**Key-in** your desired percentage.

### • ACTIVITY LOG ENTRY SCREEN •

← 02<sup>5</sup> OOH:30M:13S<sup>6</sup> →  
WED 04:34:02A<sup>7</sup>

This screen represents the first and most recent entry in a log that details recent station activity **triggered by central/radio commands** (this log does not show activity triggered by Control Panel via MANUAL or PROGRAMS). If the station on the log entry you're viewing is currently running, or was shut off using the STOP Button on Control Panel, the runtime will display "NO OFF TIME". If Control Panel has yet to receive a central/radio command, this screen will display "NO ACTIVITY LOGGED".

Use **Key-in** to move **back in time** through the log. **Key-in** moves you through the log in the opposite direction.

## SATELLITE STATUS

Press this button from anywhere in Control Panel to take you to the SATELLITE STATUS area.



Use the right and left arrows to side-scroll through all available screens within the SATELLITE STATUS area.

### WHEN WATER IS RUNNING

via Control Panel MANUAL or PROGRAMS functionality

#### • LIVE STATION LOG SCREENS •

← MAN<sup>1</sup> STA: 06<sup>2</sup> →  
REMAIN: 00:12:31<sup>3</sup>

This screen displays the first entry in a log that details live station activity triggered by Control Panel via MANUAL or PROGRAMS.

Multiple log entries are sorted from lowest-to-highest station number. Use **Key-in** to move to the next highest station number. **Key-in** moves you through the log in the opposite direction.

### WHEN WATER IS NOT RUNNING

via Control Panel MANUAL or PROGRAMS functionality

#### • LIVE VOLTAGE READINGS SCREEN •

← 13V: 12.9V<sup>4</sup> →  
8V: 7.9V<sup>5</sup> BV: 3.1V<sup>6</sup>

Displays LIVE voltage readings from three key places: **13V** represents power from the power distribution board to Control Panel. **8V** represents power from the power supply to the radio within Control Panel. **BV** represents power from the battery unit within Control Panel.

#### • OUTPUT BOARD STATUS SCREEN •

← SIZE: 64<sup>7</sup> →  
1 2 3 4 - 6 7 8

Displays a snapshot view of the status of your output boards for quick troubleshooting. When Control Panel recognizes an output board, it displays its corresponding output board number in the bottom row. A dash (-) (in place of a number) in any of the eight possible output locations indicates either an output board failure or no output board installed at all.

#### • UNIT UPTIME SCREEN •

← UNIT UPTIME →  
109:32:18

Displays how long it's been since Control Panel was last powered on.

#### • LAST POWER DOWN SCREEN •

← LAST PWR DOWN →  
MON 02:11:16AM

Displays the day/time Control Panel was last powered down. Can be used with the **Unit Uptime** figure to calculate the date/time of the last power outage.

#### • STATION OUTPUT TEST MODE SCREEN •

← STA. TEST MODE →  
ENTER to begin

Press **ENTER** to run a physical test of all your stations.

← STATION OUTPUT →  
TEST MODE

This screen is displayed as the test is taking place. All stations connected to your satellite are quickly cycled on and off, sequentially, allowing you to pinpoint malfunctioning stations. To stop the test, navigate away from this screen using **Key-in** or press the STOP Button.

<sup>1</sup> "MAN." indicates the station was activated via MANUAL functionality. "AUTO" indicates the station was activated via PROGRAMS functionality.

<sup>2</sup> Station number

<sup>3</sup> Number of hours, minutes, and seconds remaining until the station is scheduled to be shut off.

<sup>4</sup> Should read 13V, +/- 1V

<sup>5</sup> Should read 8V, +/- 0.2V

<sup>6</sup> Should read 3V, +/- 0.3V

<sup>7</sup> Number of stations Control Panel recognized at the time of the most recent power-up.