irrigreen

Irrigreen2® App Guide
IOS
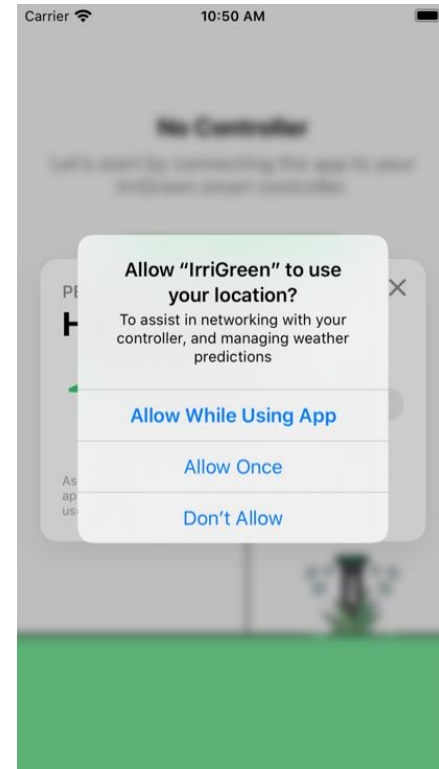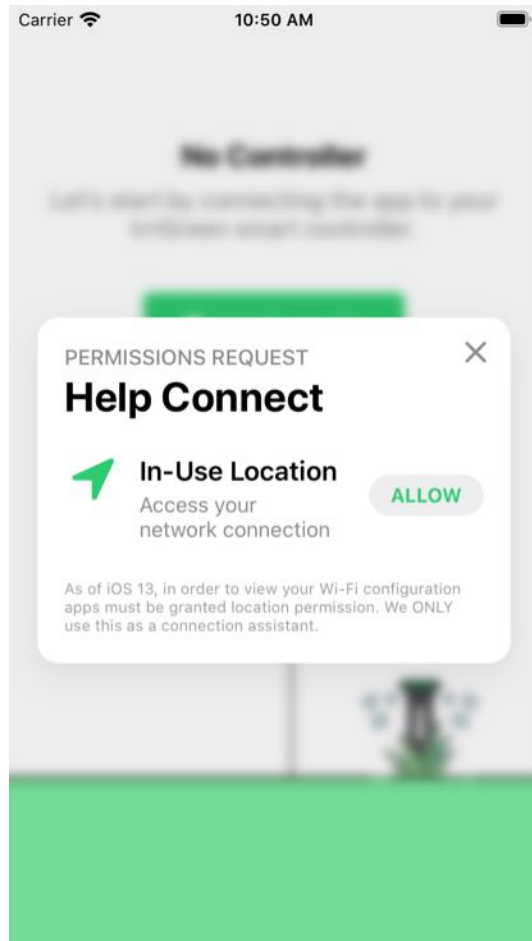

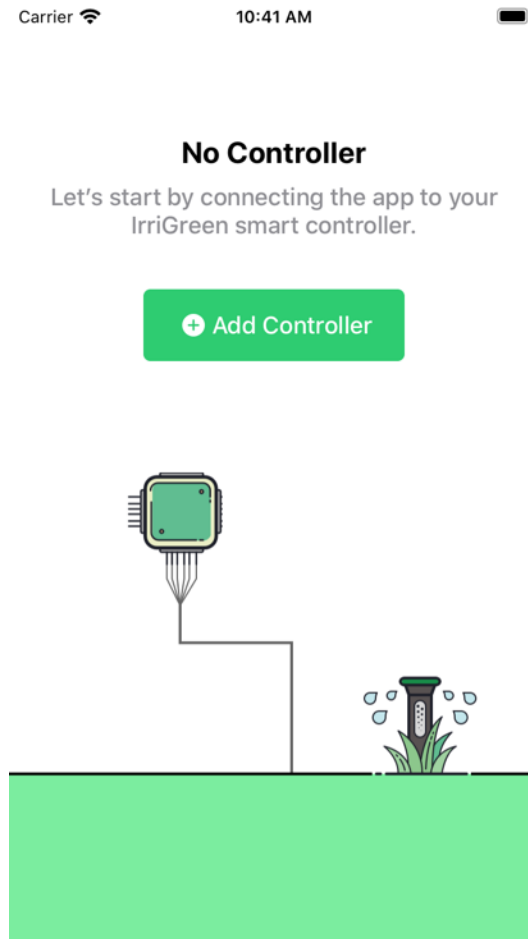## One Head per Zone. Simple.

**Smart Irrigation Zone
Design Video - IOS**

Connect with IOS App

1. **Start IG2 App**

2. **Click "Allow In Use Location"**

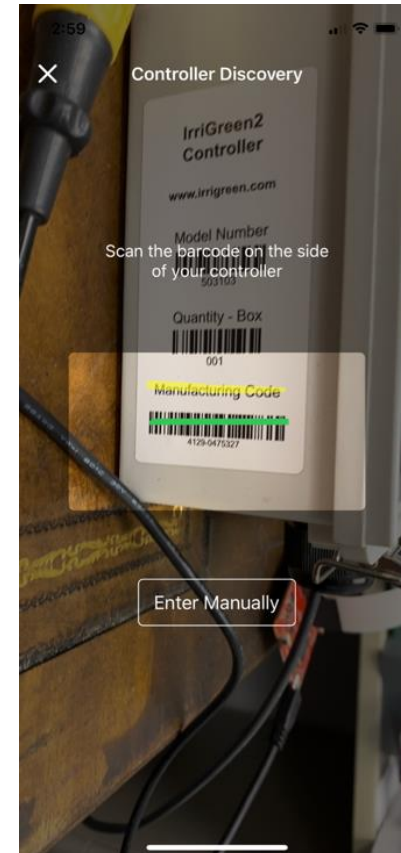3. **Select "Allow While Using App"**

Connecting with IOS App

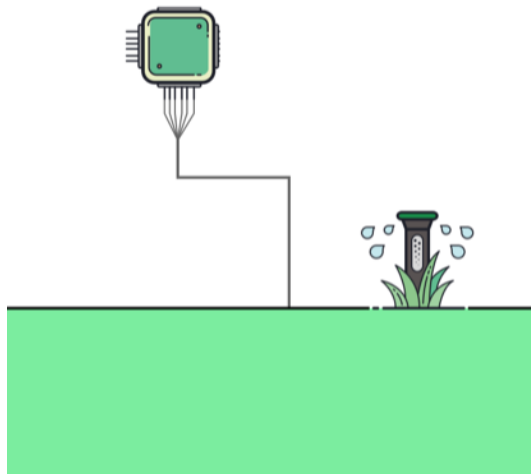**4.   Click "Add Controller"**

5. Scan Barcode on Controller

Connecting with IOS App

6.   App Will Start Connecting

7. Connected Screen
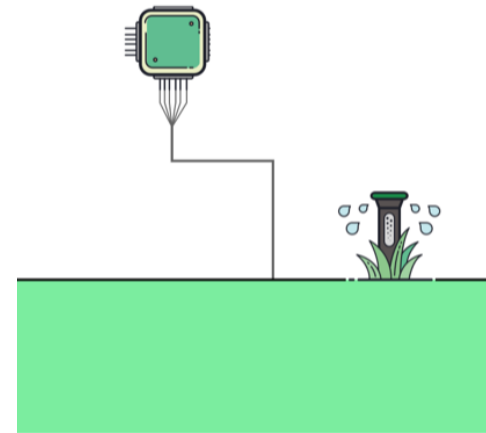
App will prompt rollover to 2.4 GHz Wi-Fi

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←

Connect to Home Network

Let's get your controller online by connecting it to your Wi-Fi network.

Please select your home Wi-Fi Network

📶 DIRECT-57-HP OfficeJet Pro 8730 ›

📶 NETGEAR-24-G ›

📶 CBCI-BE07-2.4 ›

📶 HP-Print-c1-LaserJet 200 ›

📶 IrriGreen-4D3103-102 ›

📶 CAFH ›

📶 DunnSemington ›

📶 IrriGreen-0772903 ›
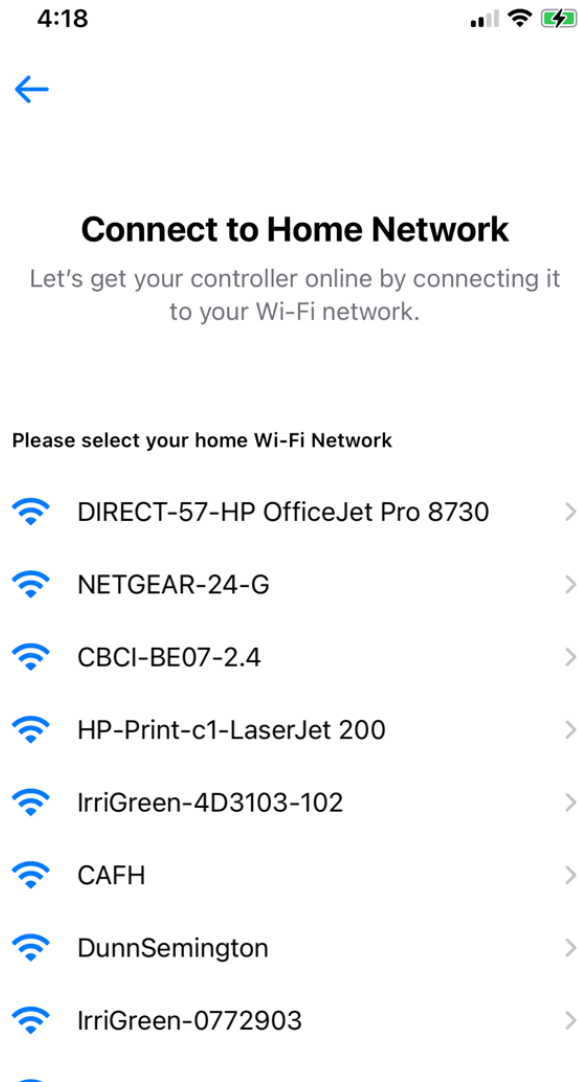
NOTE: When trying to roll system onto home Wi-Fi, **turn off VPN, if any**. Turn VPN back on when system is connected to Wi-Fi

Manual Wi-Fi Rollover

Go to Dashboard
Click "More"
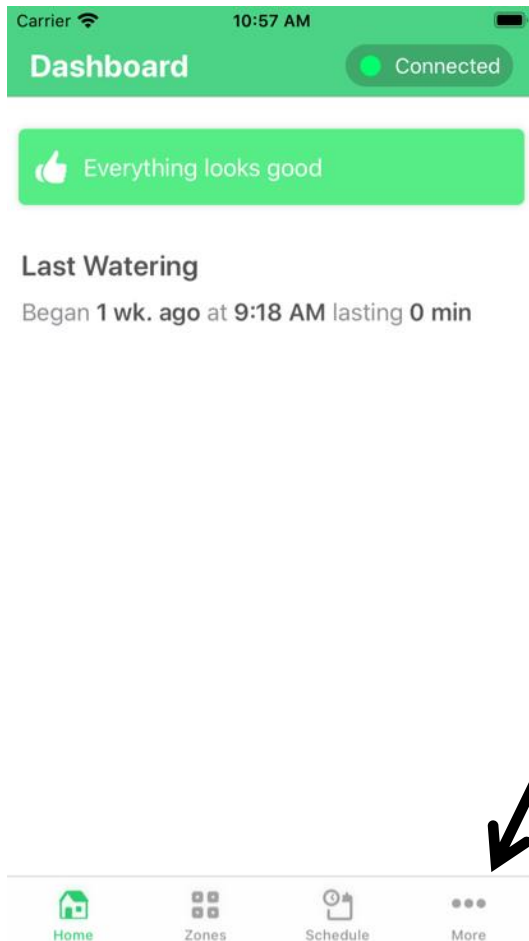
Click Wi-Fi
Settings

Follow Wizard, then connect mobile device to the home network
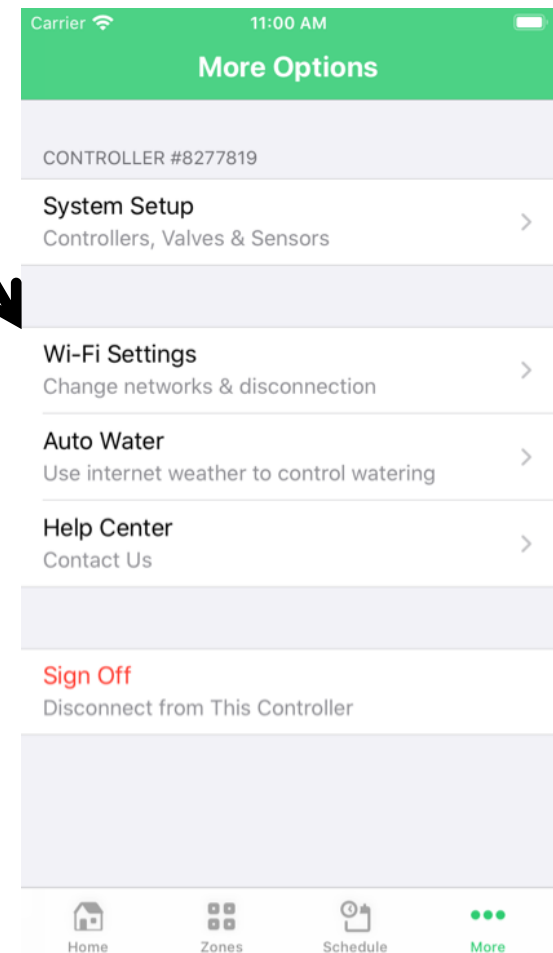
App Dashboard has Connection Status Widget

8. Dashboard Will Appear

App/Dashboard Menu appears on bottom of screen
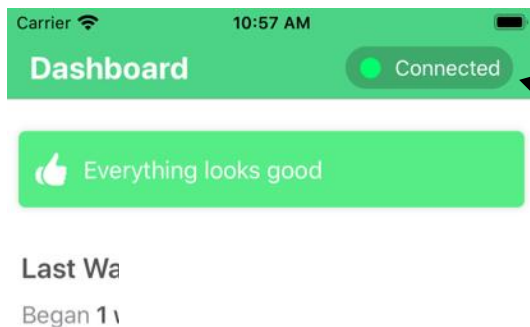
Wi-Fi/Cell Connection Status, should be Green.
Yellow is unstable connection.
Red is no connection, move back in Wi-Fi range and Click to reconnect.

NOTE: App will switch to cell network if controller is rolled over and there is a strong cell signal

IOS System Settings
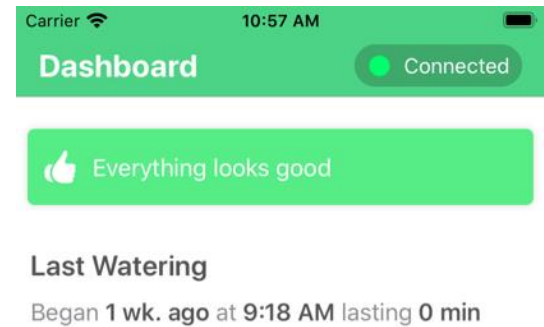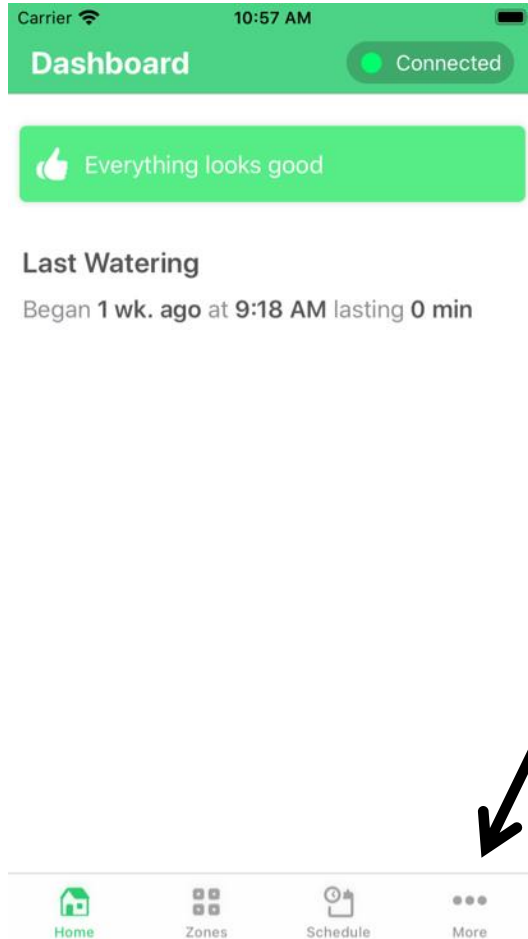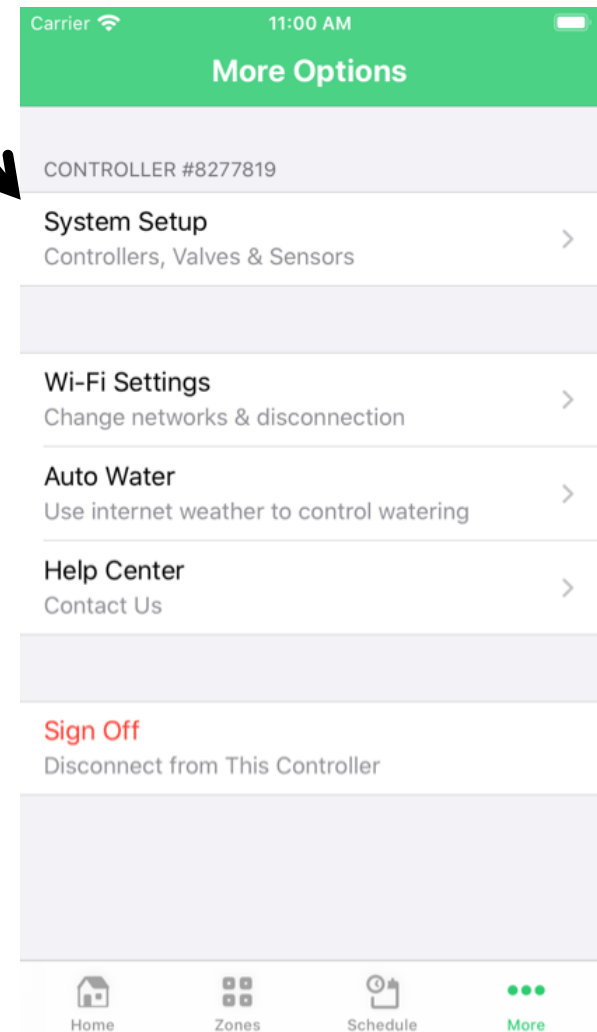## Go to System Setup Page to Verify Settings

Click "More"

Click "System Setup"

IOS System Settings: Optional Flow Sensor

System Setup Page
Click Flow Meter

Flow Meter Setup Page
Only select Flo1 if Flow Sensor
wired to Flo1 in Controller

IrriGreen-8277819   Done

HARDWARE

Flow Meter	Flo2 >
Master Valve	None >
Rain / Soil Sensor	None >

It is recommended that all systems have at least one
Master Valve and at least one Flow Meter.

ENABLED DIGITAL ZONES

Digital Zone 1	(on)
Digital Zone 2	(off)
Digital Zone 3	(off)
Digital Zone 4	(off)
Digital Zone 5	(off)
Digital Zone 6	(off)
Digital Zone 7	(off)

A Controller has conections for up to 2 Flow Meters.
Flow Meters are connected through `Flo` nodes.

FLOW METER CONNECTIONS

| Flo1 | (on) |
| Flo2 | (off) |

Please enable any nodes where there is a connected
Flow Meter. At least one Flow Meter is required.

FLO1 TYPE

| Paddle | ✓ |
| Ultrasonic | |

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IOS System Settings: Master Valve/Pump

System Setup Page
Click Master Valve
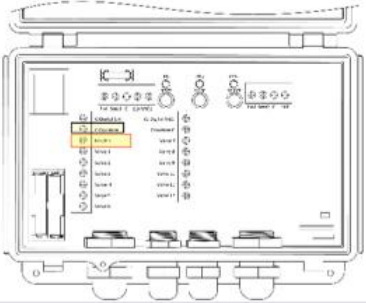
Master Valve Setup Page
Select MV/P if system has a
Master valve or Pump

IOS System Settings: Rain/Soil Sensor

System Setup Page
Click Master Valve

Rain/Soil Sensor Setup Page
Select Sens1 if Rain/Soil Moisture Sensor wired to Sen1 in Controller
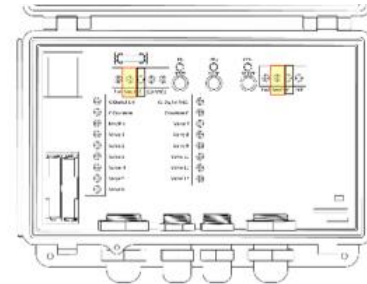
IOS System Settings: Digital Zones are Pre-enabled at the Factory

To enable Digital Sprinkler Zones (if needed):

1. Go to Setup Page

2. Click Digital Zone Button to green On position
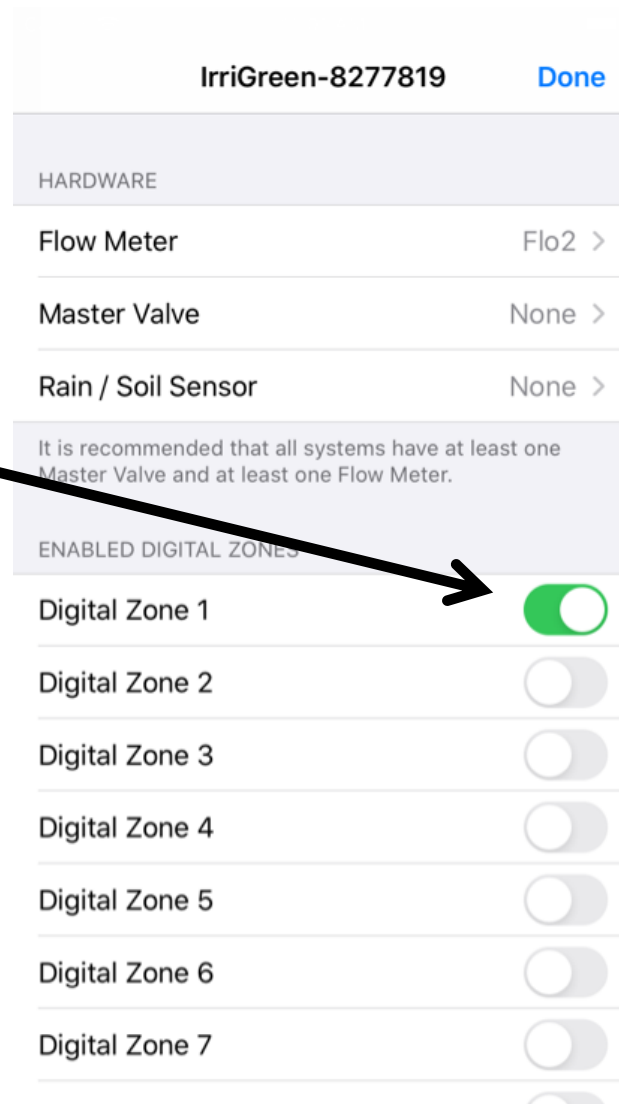
There are 16 Digital Zones available, as two separate sequences of eight.

Zones may be divided up between the two separate sequences of eight (requires second controller cable).

Example:
Seven Digital Zones could be:
Digital Zones 1-7
OR
Digital Zones 1-4 and Digital Zones 9-11

IrriGreen-8277819   **Done**

HARDWARE

Flow Meter   Flo2 >

Master Valve   None >

Rain / Soil Sensor   None >

It is recommended that all systems have at least one Master Valve and at least one Flow Meter.

ENABLED DIGITAL ZONES

Digital Zone 1   (on)
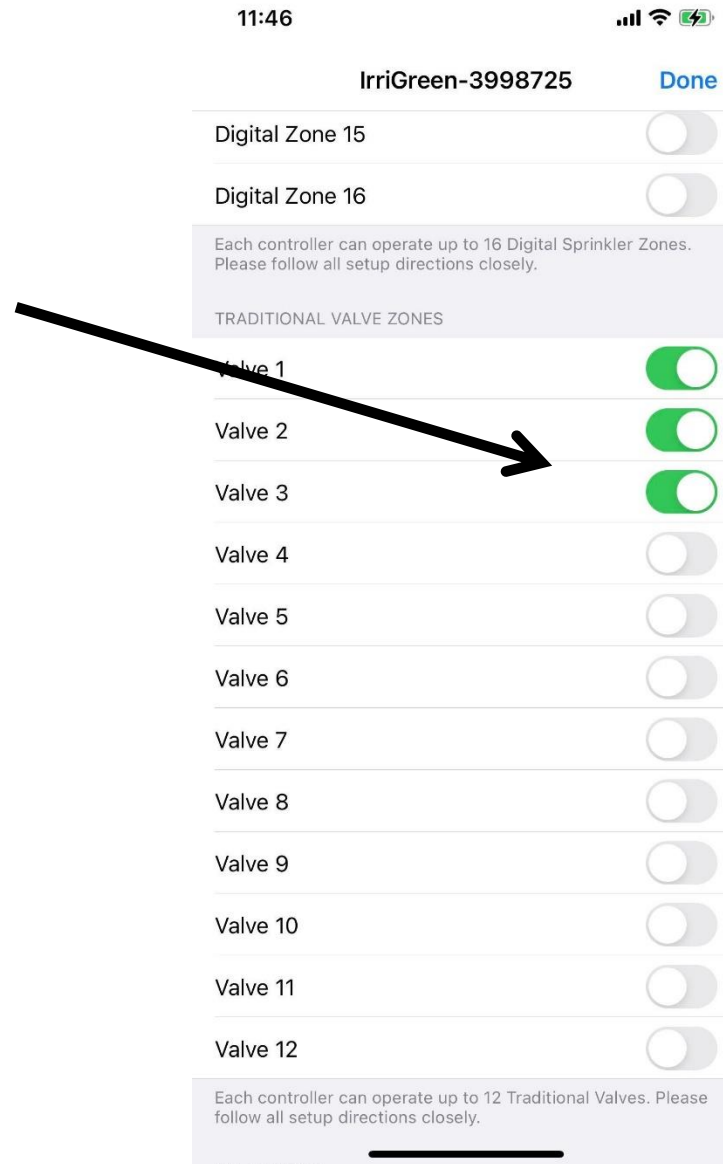
Digital Zone 2   (off)

Digital Zone 3   (off)

Digital Zone 4   (off)

Digital Zone 5   (off)

Digital Zone 6   (off)

Digital Zone 7   (off)

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IOS System Settings: Enable Valve Zones

1. Go to Setup Page
2. Scroll to Valve Zones
3. Click Valve Zone Button
    to green "On" position
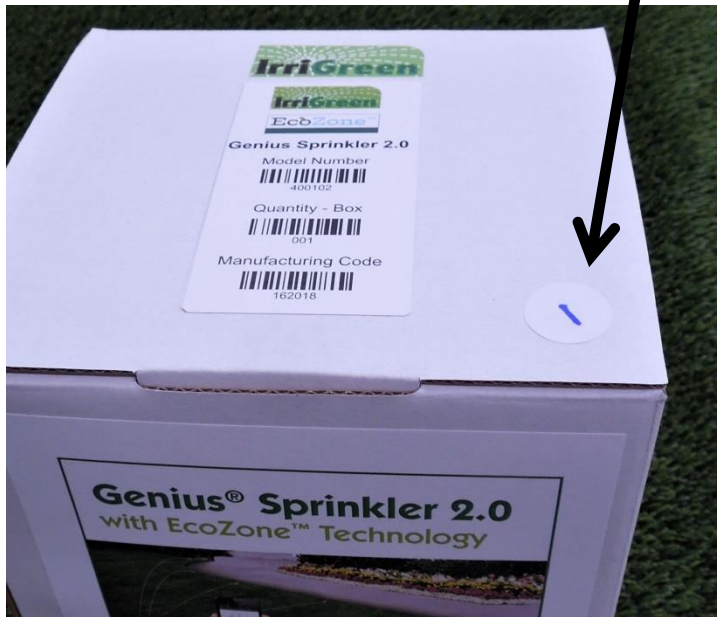
Wire valves to Valve 1,
Valve2, etc. terminals

Sprinklers are Pre-numbered for each Zone

Locate sprinklers in the order you want them to run

Plug all heads together and make sure they all run BEFORE Burying

*Head #1 runs first
Head #2 runs second
Head #3 runs third
Etc.

Digital Sprinklers have Zone Numbers 1-16 assigned at the factory
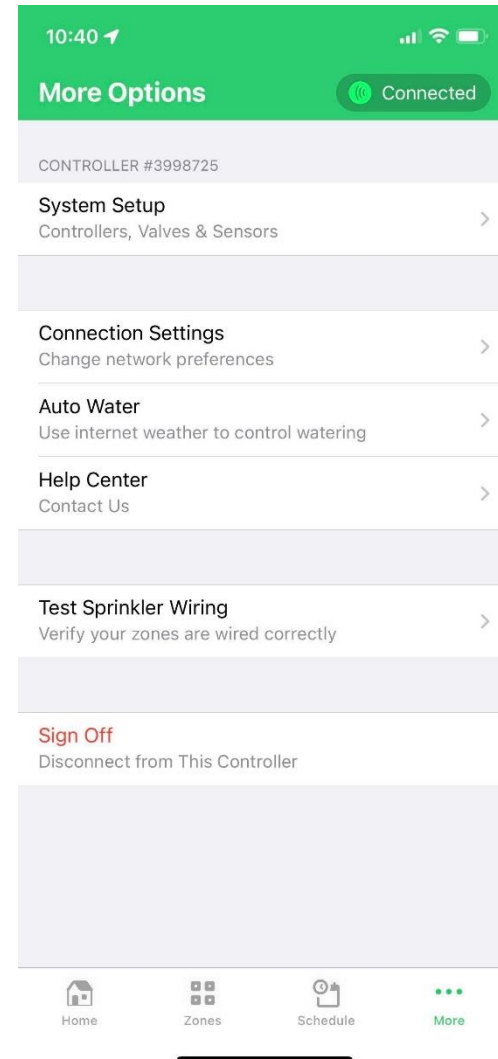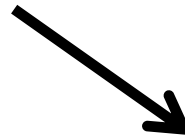
Zone Number on Sprinkler box

Zone Number on Sprinkler

Test Sprinkler Connections <u>Before</u> Burying Heads or Cables
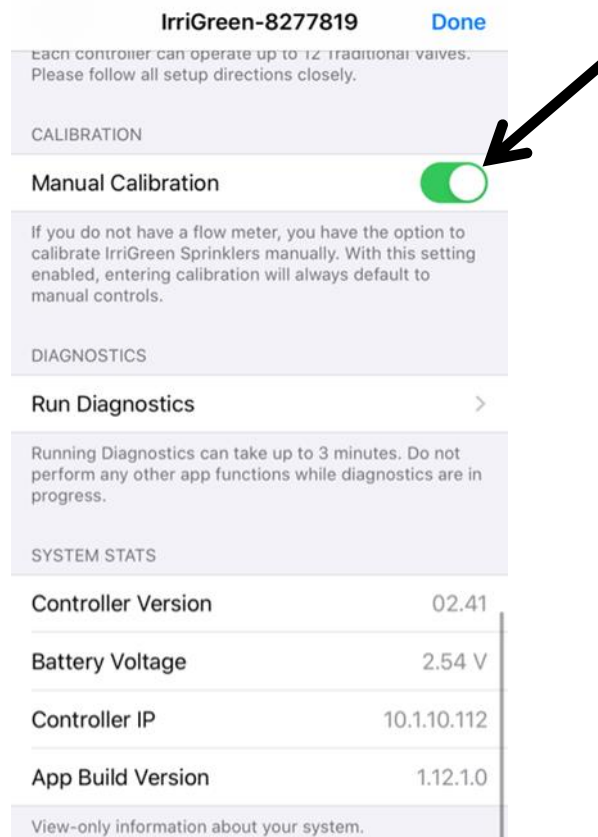
"More" Screen
Click Test Sprinkler Wiring
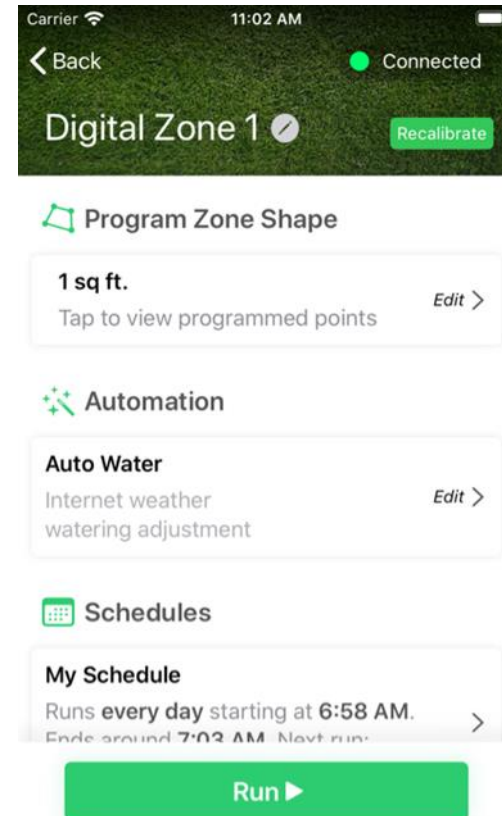System will run a check on all sprinklers

Zone Calibration, No Flow Sensor
Calibrate every digital zone before mapping

Verify "Manual Calibration" is enabled at Bottom of Setup screen

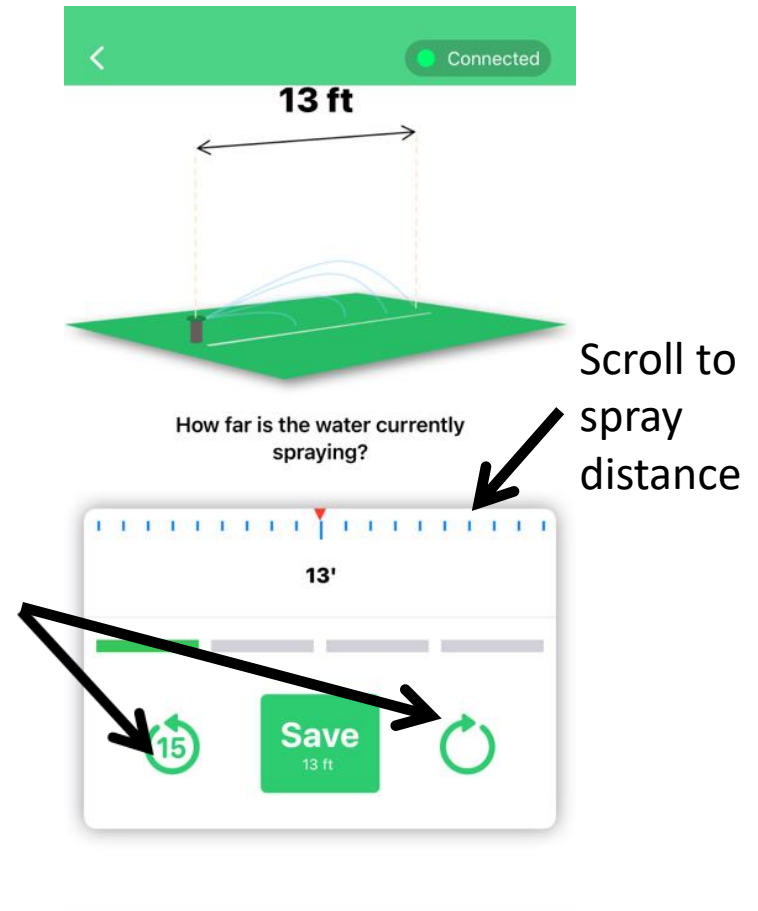**1.** Click "Calibrate" on Digital Zone Screen

Manual Zone Calibration
Calibrate Every Digital Zone Before Mapping

2. Head will turn on, spray ~12'
3. Rotate head to spray in flat area
4. Measure spray distance
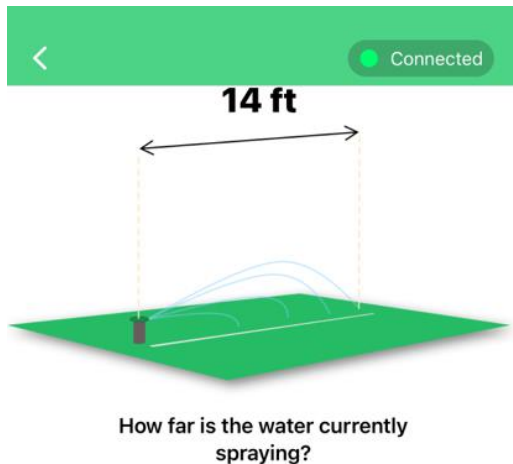5. Enter distance on the screen
6. Click Save

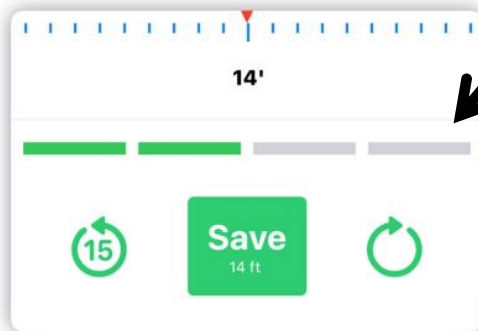**Use "Rotate " Controls so streams spray in flat, open area for accurate distance measurement**

Scroll to spray distance

Zone Calibration
Calibrate Every Digital Zone Before Mapping

7. Head will now spray ~13'
Measure spray distance
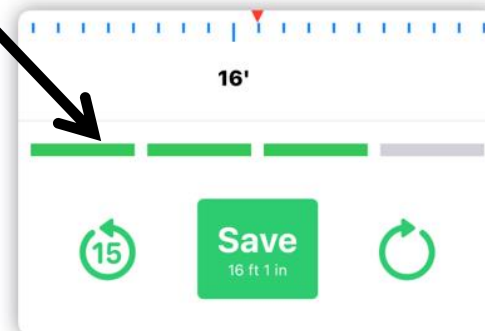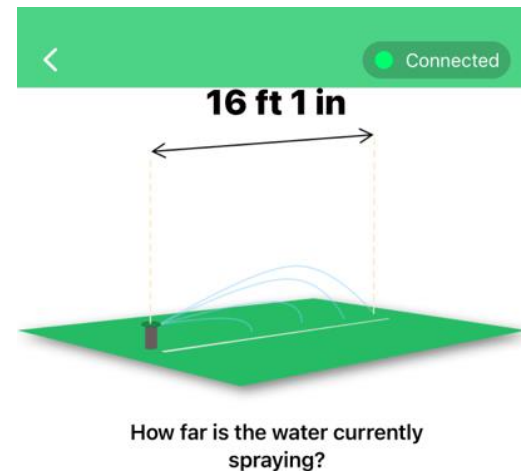Enter distance and click **Save**

8. Head will then spray ~15-25'
Measure spray distance
Enter distance and click **Save**

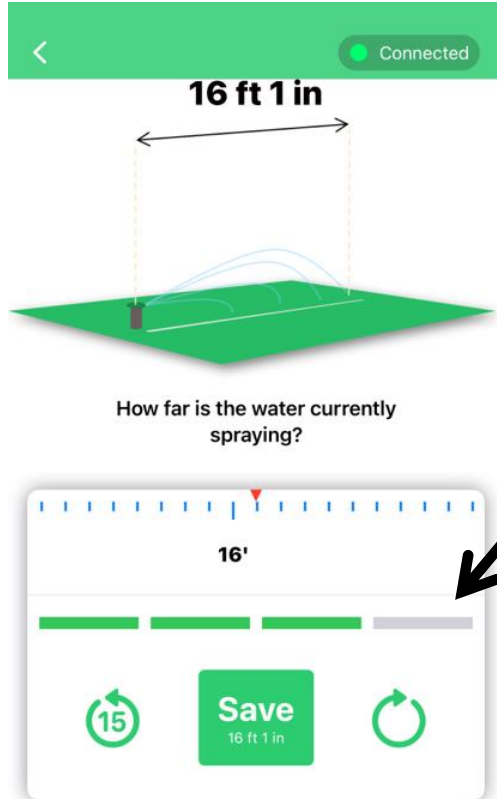Update distances at each step until all of the progress bars are green

Zone Calibration Final Steps
Calibrate Every Digital Zone Before Mapping

9. Head will then spray ~13'
Measure spray distance
Enter distance and click **Save**

10. Watch sprinkler to verify Calibration
It will shut off, spray 15', and then 14'
Click **Proceed** to verify calibration
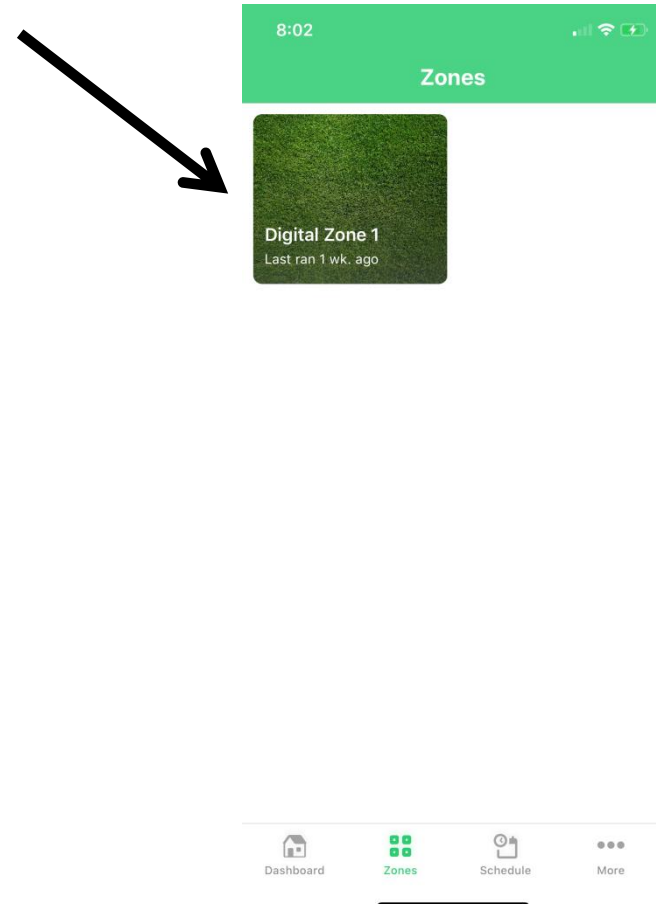**You are ready to map that zone**

Entering the fourth distance will turn all progress bars green
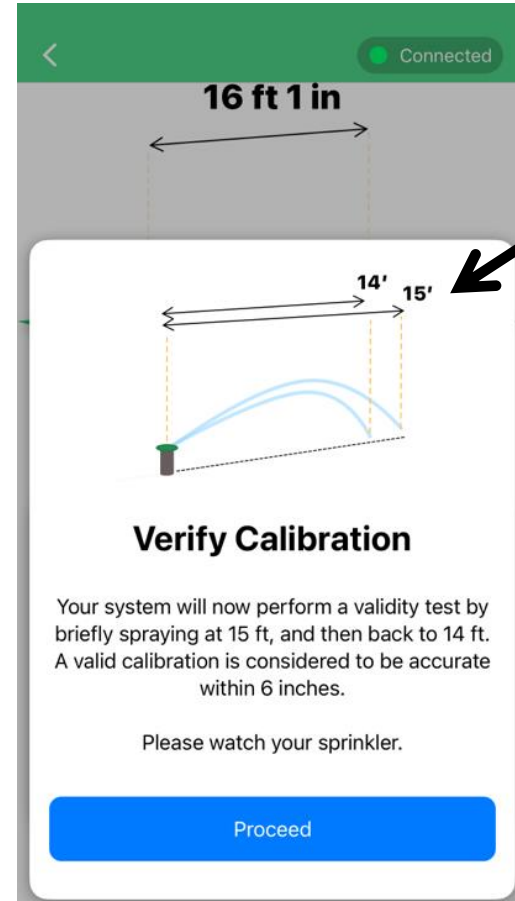
Calibration Verification: Head will pop up and spray 15', then drop back to 14'

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IOS Zone Mapping

Click **Zones**
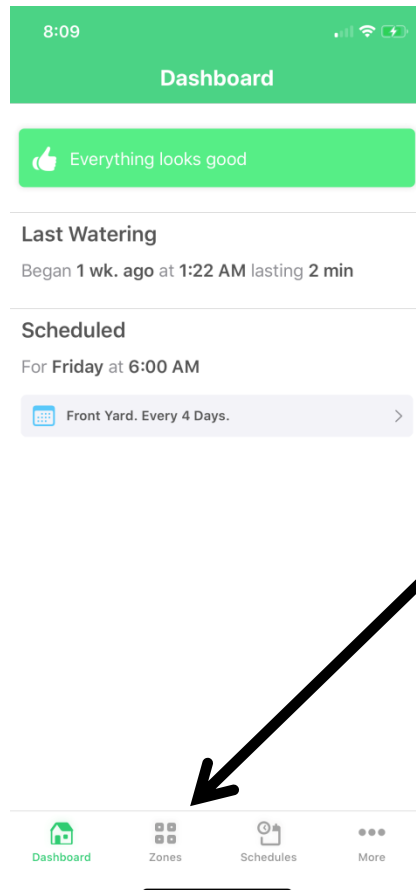
Select **Digital Zone**

Program Zone Shape
Click Edit

Click "Edit" to program Zone Shape

Head will pop up and spray ~15'

Interactive Smart Irrigation Zone Design
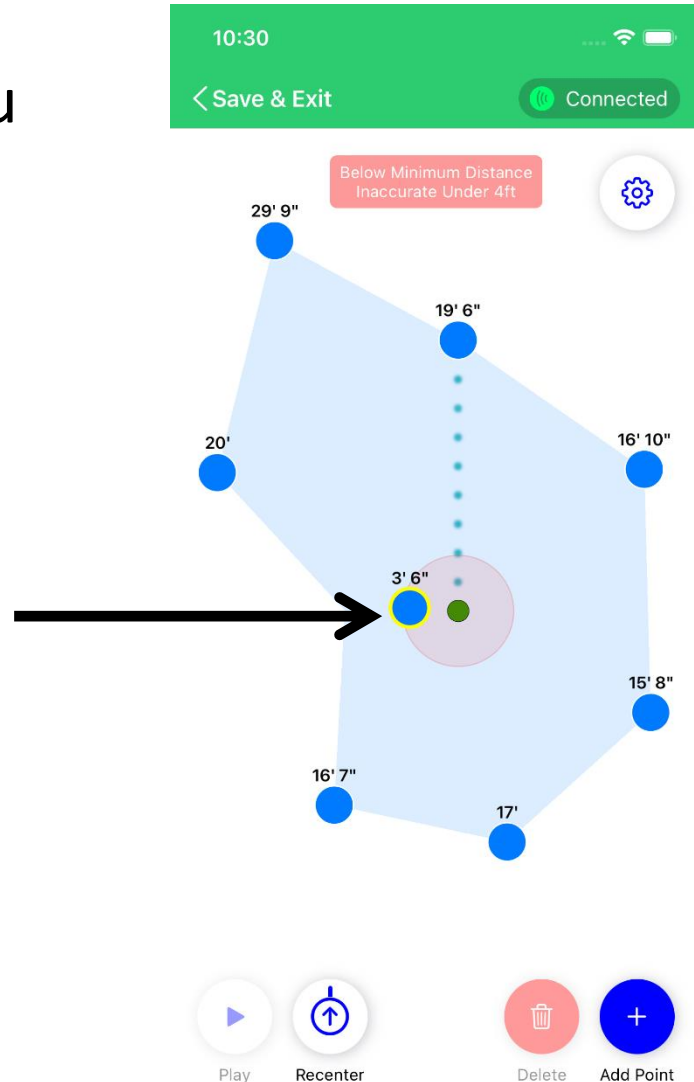
Scan QR Code below and watch the video

Smart Irrigation Zone Design Video - IOS

Drop Head Between Two Points

Create 180 degree (or other) pattern

- Create the two points you want the head to drop down between

- Create a new point and place it within the red circle that appears when dragging points close to the head

- The head will drop down between the two points

Zone Map/Programming Rules

The zone startup point may be anywhere, <u>BUT this first Point distance must be 10+ feet</u> to fully pop up and seat the riser

- "Best practice" is to use minimal number of map points to create zone shape, then add points as needed to optimize tracking

- When zone is started up, it will spray at 15 feet, create the first point and place where you want the zone to start, must be over 10 feet

- Set map points to track about 6" from zone edges; water will soak out to the edge

- Up to 50 map points are allowed per zone, system will not save over 50 points

IOS Schedule Page for Days & Times
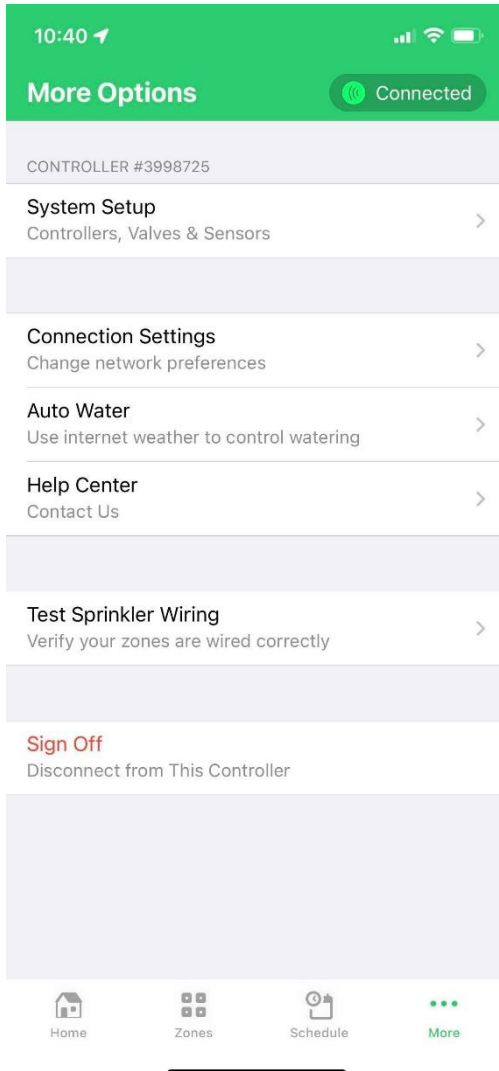## **ABCD Schedules** for Multiple Scheduling
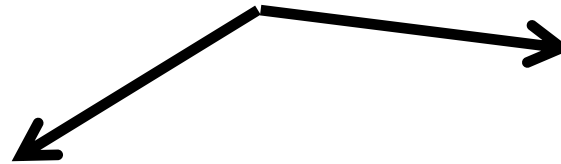

Watering Days

Start Time

Select Inches of water to apply. *(Should be a minimum of .25" so that enough water is applied per watering event to allow water to soak in between the streams)*

# Auto Water uses Internet Weather Data
Set Percentage of Water You Want to Apply, per Zone

1. Create Schedule
2. Enable Auto Water
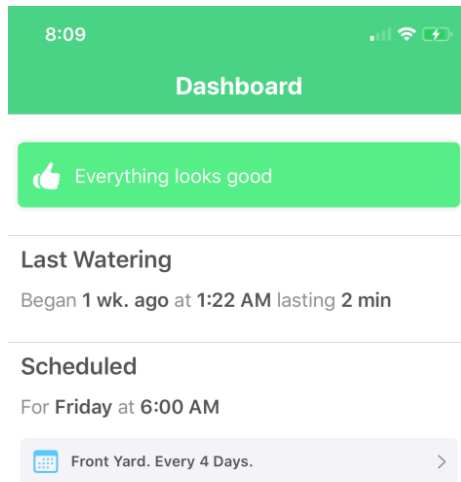3. Set Percentage
4. Set per Zone on Zone Page

NOTE: There must be a watering schedule enabled for Auto Water to work; it will vary the watering amounts and times of all schedules to match the total weekly envirotranspiration (Eto) data for your location.
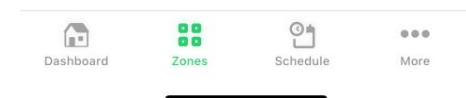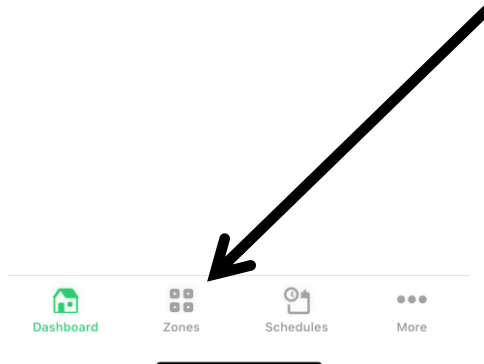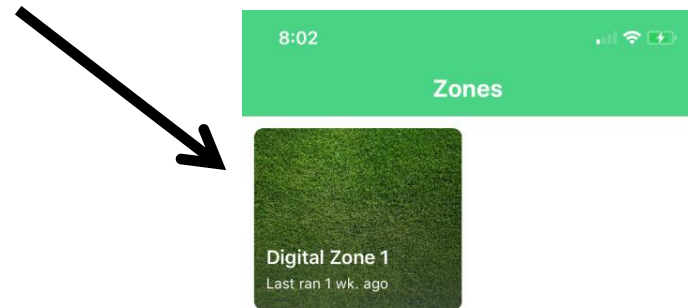It will skip days if needed.
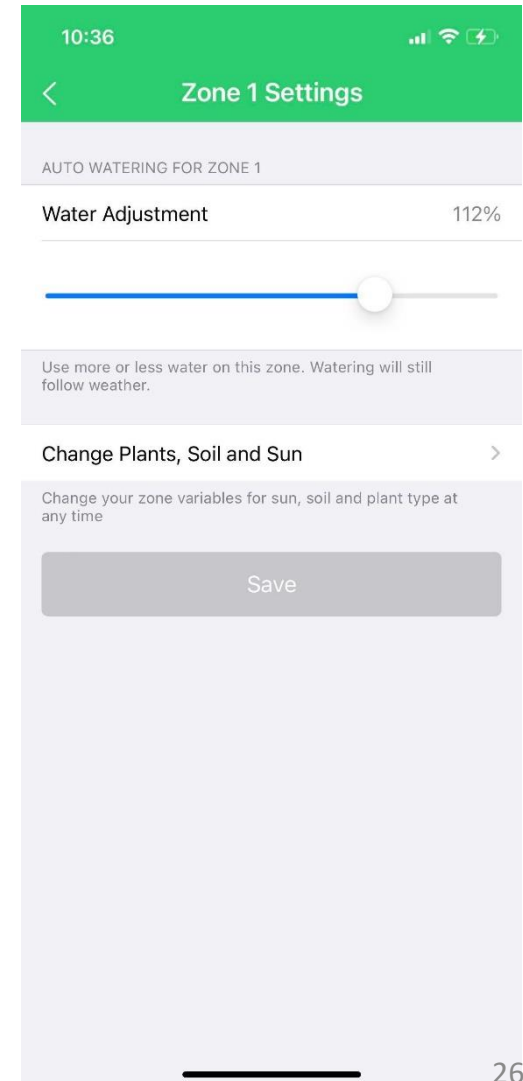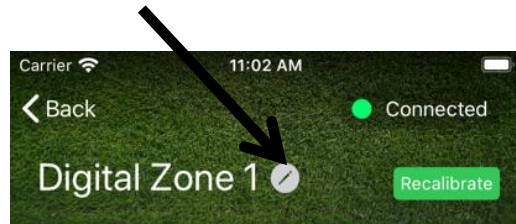
IOS Change Zone

Click Zones

Select Digital Zone

Name Zones Page
Add Zone pictures

Click Icon to name a Zone
and add a photo

Tap to Edit: Name Zone
Add Zone Picture

Optional Flow Sensor Zone Calibration
Calibrate Every Digital Zone Before Mapping

Click Calibrate Button

Takes about 4 minutes

Head sprays varying distances

Start Mapping Zone Shape

Click **Edit**

Click "Edit" to program Zone Shape

Head will pop up and spray ~15' at Position "0"

Legacy IOS Program/Map Sprinkler to Zone Shape

Click/Hold "Rotate Arrow" to turn streams

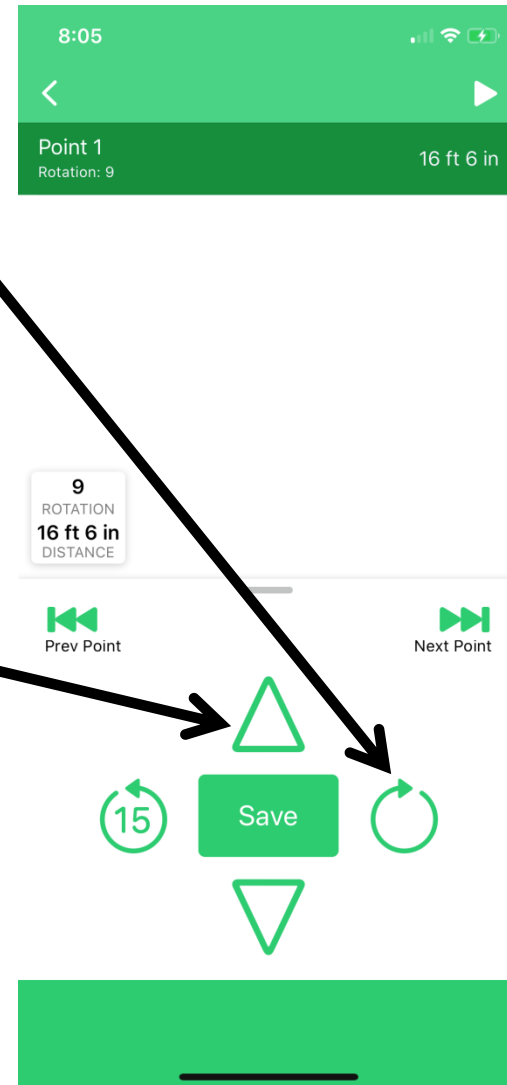437 Rotation settings, every 0.8⁰

Clockwise rotation only

Click "Up / Down" Arrows to Set Distance

Distance (~6" increments)

Distances are approximate

Click "Save" to create Positions

System draws a straight line between any two points/positions

Legacy IOS Digital Zone Map Point Table

"Point 1" becomes the Zone start up position, must be 10'+

Point 1 becomes the zone start up position (May be any Rotation Position, 0-437)

Position 1 must be 10+ feet so the head has enough flow/pressure to fully "pop up" and seat the riser seals.
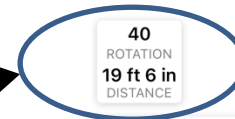
Current Distance & Rotation values are continuously displayed while mapping zones

After head is fully popped up, Positions may be set as short as 5 feet.

Distances are approximate

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Legacy IOS Back Up and Play Functions
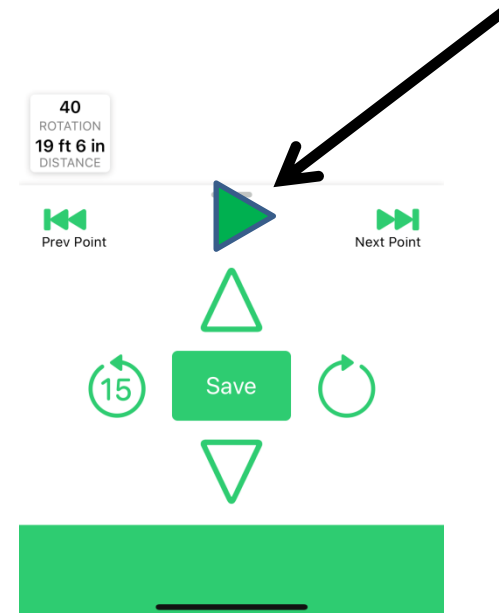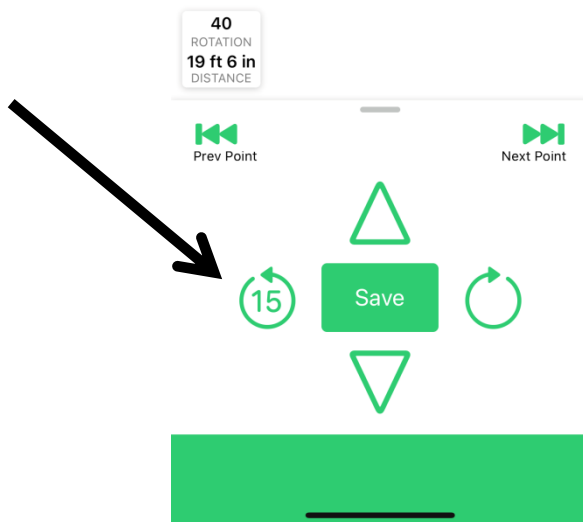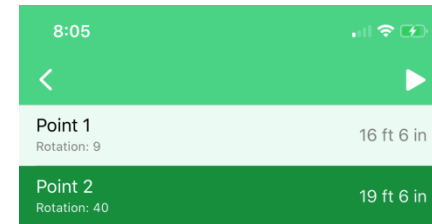## Use "Play" to check your Zone Map

Click Reverse-Rotate Arrow
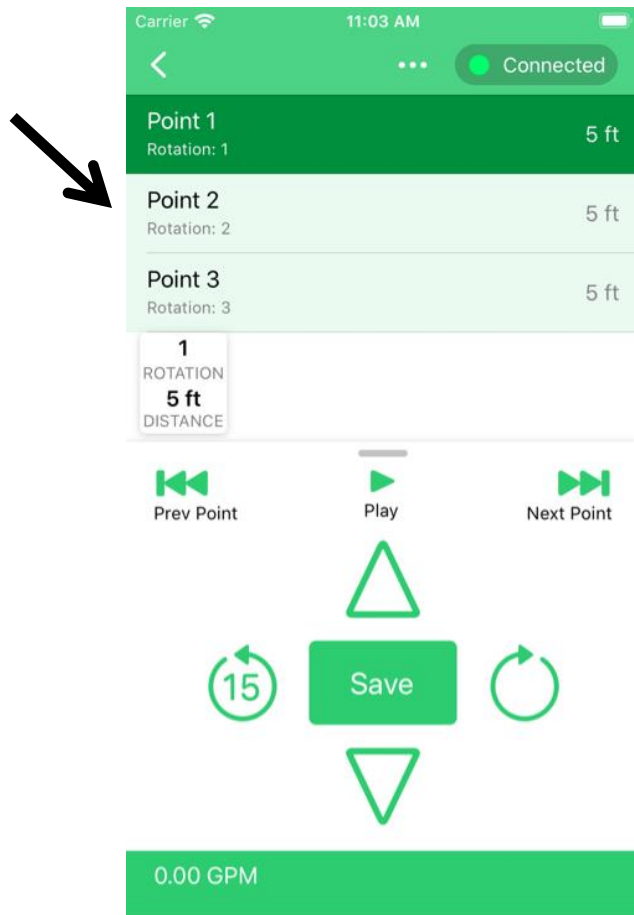
Streams will backup 15 degrees to redo Positions

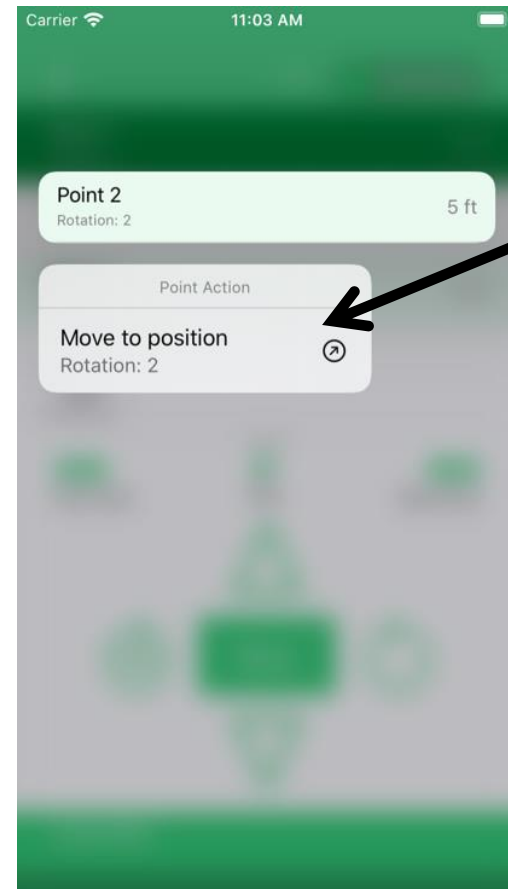Click **Play Icon**

System will quickly run through the Zone Map

Legacy IOS Zone Editing: Go to a Position

Scroll Position Table

Click the Point

Menu Appears

Click Move to Position

Head will rapidly turn to that position

Position is highlighted in the Position Table when the head is on that position
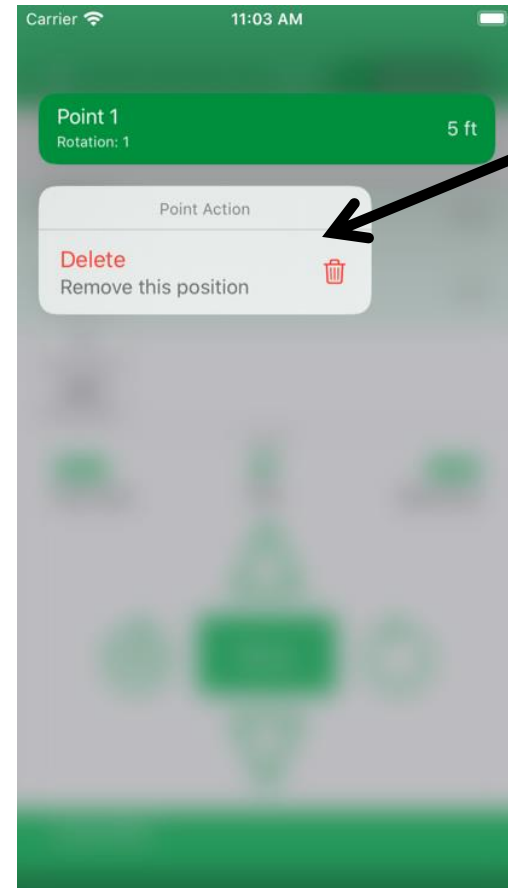
Legacy IOS Zone Editing: Delete a Position

Scroll Position Table

Click the Point to Delete

Menu Appears

Click Delete
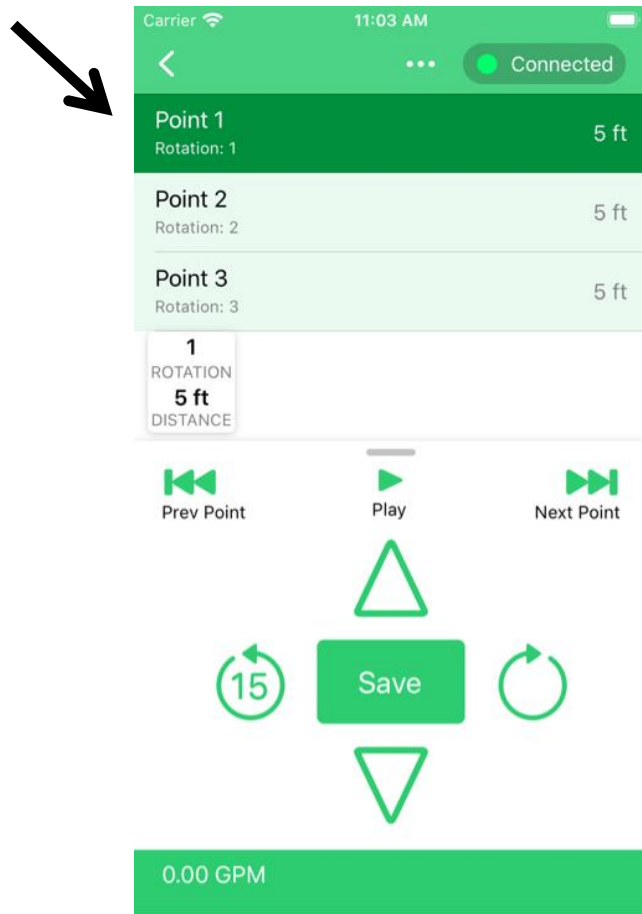
Position is highlighted in the Position Table when the head is on that position
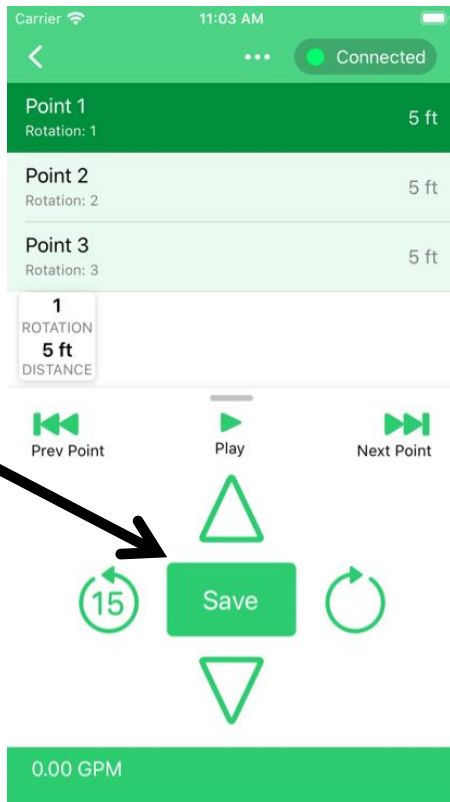
Legacy IOS Edit Position Distances

Rotate to a Position

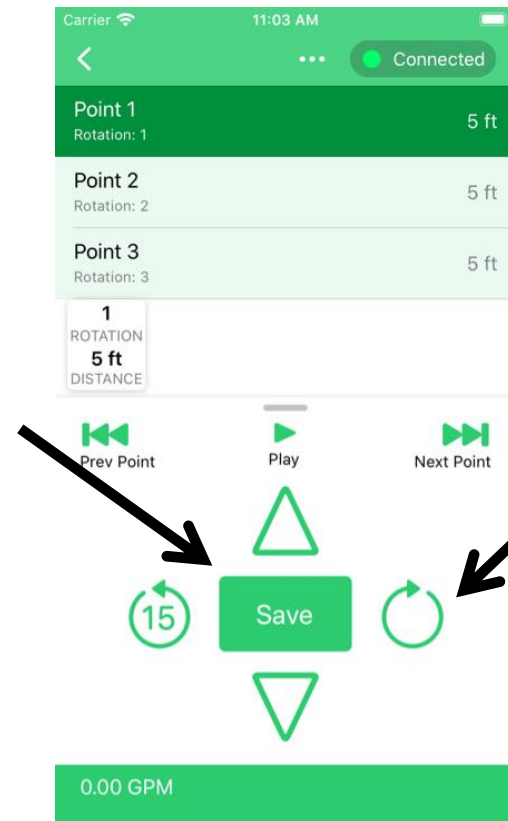Edit distance

Click **Save**

Saves new distance for existing **Position**

Legacy IOS Insert New Positions

Rotate to a new vector between two **Positions**
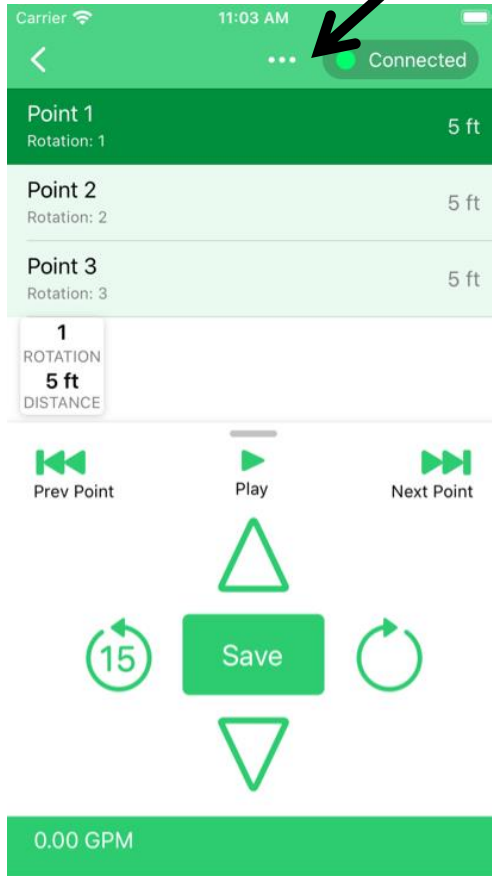
Set distance

Click **Save**

Rotate to a new vector
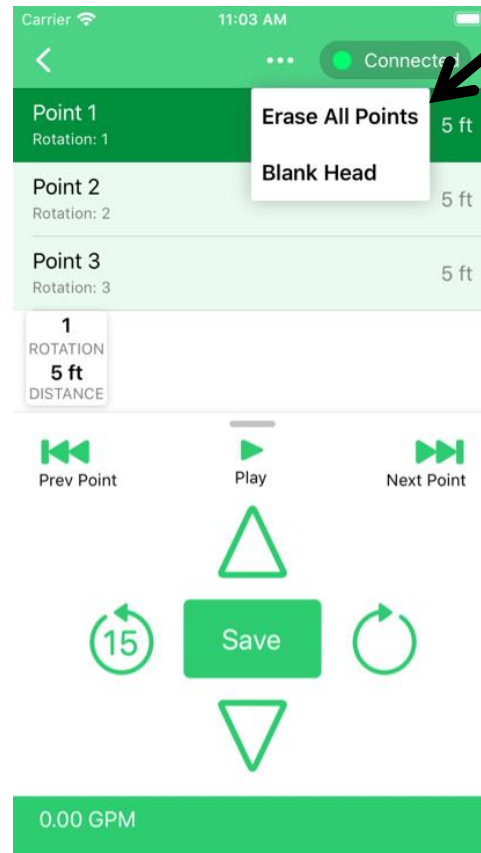

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Legacy IOS Erase Zone Map

Deletes all saved Positions
Zone calibration is not affected

Click Menu Icon

Menu Appears

Click Erase All Points

Phone Says "Searching for Device" Try Resetting Wi-Fi App Connection

If you can't connect through home wi-fi, try resetting the Wi-Fi connection

Go to Home Page on app

Click "More" on lower right corner

Click "Disconnect from Controller"

Close Irrigreen app on your phone

Go to Phone settings, Turn Wi-Fi off

Press Green button on Controller, wait 30 seconds

(Controller will try to reconnect to your home Wi-Fi network)

Check to see if Green LED is glowing and blinking off momentarily, this indicates it is on your home network

Go to Phone Settings, turn Wi-Fi on

Make sure phone is on your into Home network

Start up app