



# Installation Instructions

US Patent NO. 9,441,625

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# BEFORE YOU START!

## GET CUSTOMER WI-FI DETAILS

- Network name (SSID)
- **Password**
- Must ONLY be characters
  - A-Z a-z
  - 0-9
  - !@#%&\*()

## TEST WI-FI SIGNAL

At sump pit, connect your mobile device to home network

Once connected, launch Speedtest App

Verify BOTH DOWNLOAD speed and UPLOAD speed are greater than 3.0 Mbps

DOWNLOAD & INSTALL  
SPEEDTEST APP  
AND  
BASEMENT DEFENDER™  
DEALER APP



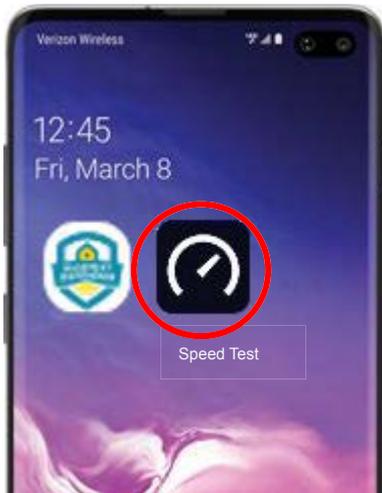
**A DEDICATED OUTLET  
IS NECESSARY FOR  
EACH PRIMARY PUMP INSTALLED.**

**If only one primary pump,  
outlet must be duplex.**



# Confirm Home Network Connection

Without internet connection, Basement Defender™ CANNOT communicate with server.



Open 'Speedtest'  
(Ookla shown)



App will perform  
internet upload speed  
test



**Confirm  
Download and  
Upload speeds  
are above 3.0  
Mbps**



# Components

- Basement Defender™ device
- Basement Defender™ charger
- Basement Defender™ float
- Battery harness
- Temp/Humidity cable
- AC power cables
- Clamps

High quality external bi-pass float



Multi type battery charger



Three 2.5" stainless steel clamps



Humidity / temperature sensor w/ high water puck input



2 AC heavy gauge locking cords



Heavy duty charger harness



Heavy duty abs housing  
 Heavy duty cord locking female plugs  
 Audio alarm  
 Alarm mute  
 Manual test button  
 WiFi pairing  
 Full function LED light panel  
 US Patent NO 9,441,825

The only home tested dealer support smart WiFi Sump Pump system that tests your system Every day at 8 am and texts you alerts if there is a problem.

**THE ONLY PATENTED Sump Pump System that EXERSIZES your pumps EVERYDAY at 8AM CST!**

MADE IN AMERICA -  
 3 Year Limited Warranty



Heavy gauge battery connector



Battery backup charger/pump harness

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# THE DEVICE



BU Pump 2  
(Pump 4)

BU Pump 1  
(Pump 3)

**Primary Pumps:**  
  
M98  
M53  
M136

**Backup Pumps:**  
  
Ultra 3

Pump 1

Pump 3  
Pump 4

Pump 2

# MOUNT COMPONENTS



# Mount the Basement Defender™ Device



## Ideal position

- On discharge line
- 4' - 6' above floor

## Alternate position

- On wall within 4' of basin
- 4' - 6' above floor



# Mount the BD Battery Charger



Place at least 6” below the  
Basement Defender™ device

**DO NOT PLUG IN YET**



# Connect Temp/Humidity Sensor

Connect sensor wire to Basement Defender device

Place sensor end in basement area to monitor



## NOTE:

After powering unit, it can take up to 10 minutes for Temp/Humidity light on monitor to turn green.

It will show red if temperature or humidity are out of range or if sensor is not connected.



**POWER UP**



# Power the Basement Defender™ Device



Plug the power cords into device

Plug cords into electrical outlet

**NOTE:**

A dedicated circuit is required for each primary pump.

If only one primary pump, a duplex outlet is needed.





# Connect High Primary

- Plug a primary pump into the HIGH PRIMARY outlet
  - If using a pump with integrated float then “Tie-Up” the float.

This pump will be auto-tested daily.



Zoeller N98





# Connect BD High Primary Float





Zoeller M53

# Connect Low Primary (optional)

Plug a second primary pump (optional) into LOW PRIMARY outlet.

- This pump must have an integrated float.

This pump will not be Auto-tested.



Zoeller M53





# Connect Battery Backup Pump

- Plug in the Backup Harness (2077-207) into Basement Defender™ Device
- Plug BU Pump 1 connector into the UltraSump connector

**Note:** Harness is just like the regular UltraSump harness





# Connect Battery Backup Pump

Plug BD Battery Charger into Charger 1 outlet on BD box



Connect Charger Harness (2077-206) into Charger 1 connector



# Connect BD Charger

Connect Charger Harness into Battery Charger Connector

Connect the battery cable to the battery's positive and negative terminals



Plug Battery harness into Battery 1 connector



**TEACH THE SYSTEM**



# Teach the System

- Manually lift each pump float to engage. Hold for 3 seconds.
- Begin with the lowest float and end with the highest:
  - Low Primary
  - High Primary
  - Backup

**DO NOT use TEST button**  
It will not test pumps without external float.



# WIRELESS CONNECTIVITY



# How it Works

## 1. Connect Mobile Device to Basement Defender™



## 2. Connect Mobile Device to Home Network



## 3. Basement Defender™ & Home Network

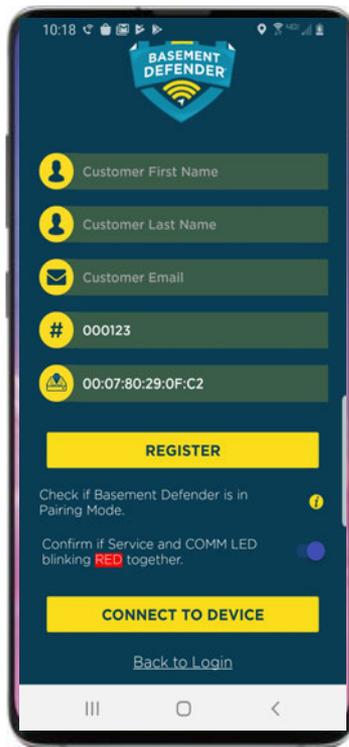
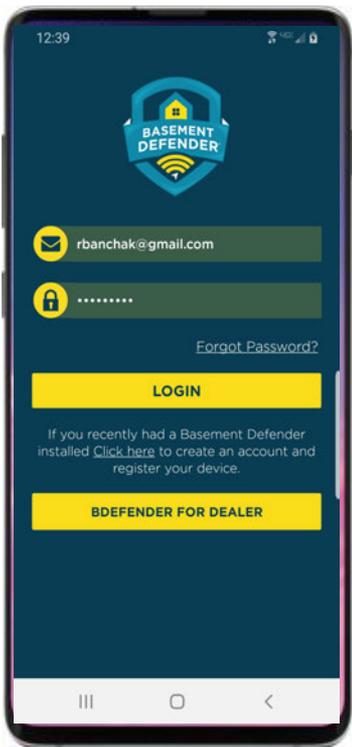




# Enter Device Serial Number



Open App

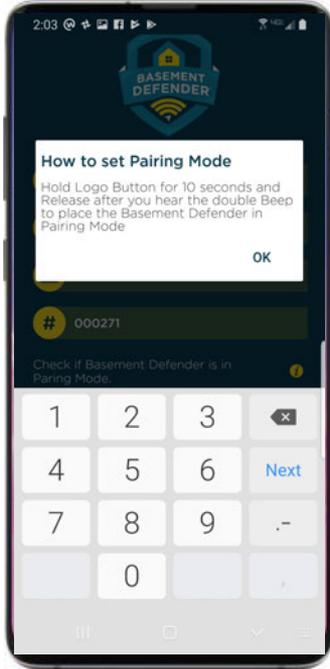


Enter Device Serial Number & MAC Address





# Open AP Mode on Device



**PRESS & HOLD  
10 Seconds**

**1 beep**

**pause....wait**

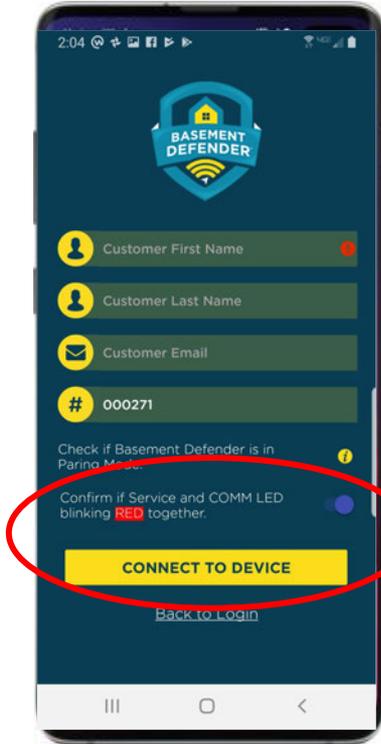
**2 quick beeps**

**Let go!**





# Confirm Pairing Mode

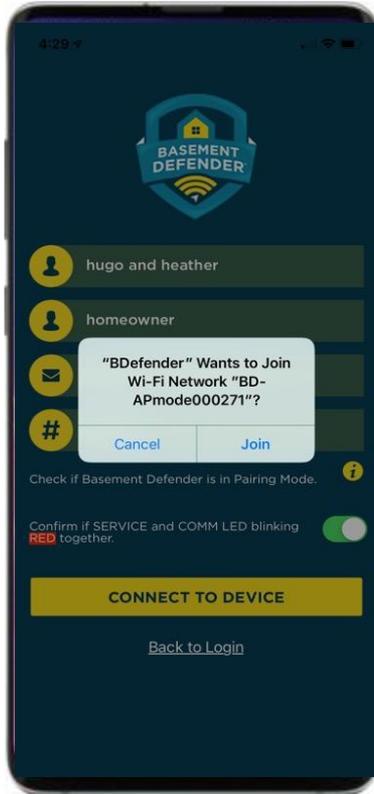


Basement Defender™ device is now in Discovery Mode and ready to be connected to mobile device





# Connect Mobile to Basement Defender™

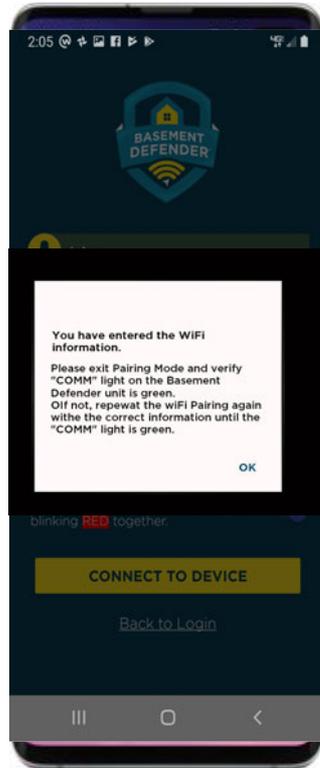


Select to connect to home wireless router and internet.

**Choose the your WiFi network.  
Touch Join. Enter the correct Password exactly!**



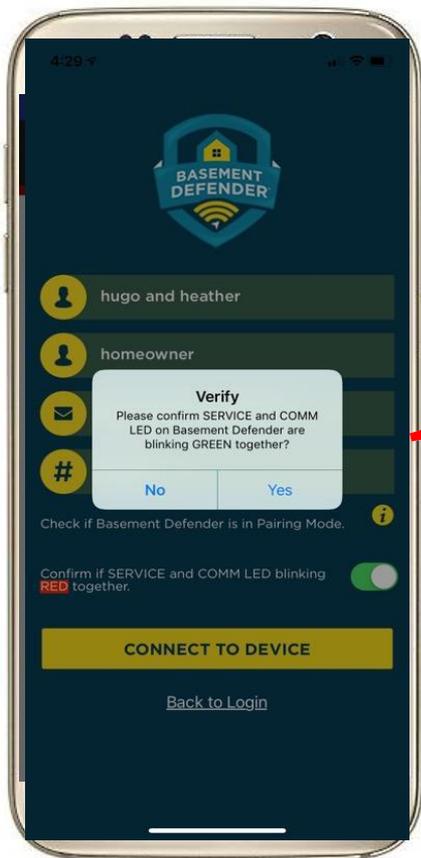
# Connect to Wireless Router (WiFi)



**This is confirmation you ENTERED information  
Make sure you enter the CORRECT information  
(you will get the same message if information is incorrect)**



# Confirm Proper Connection



Return to App

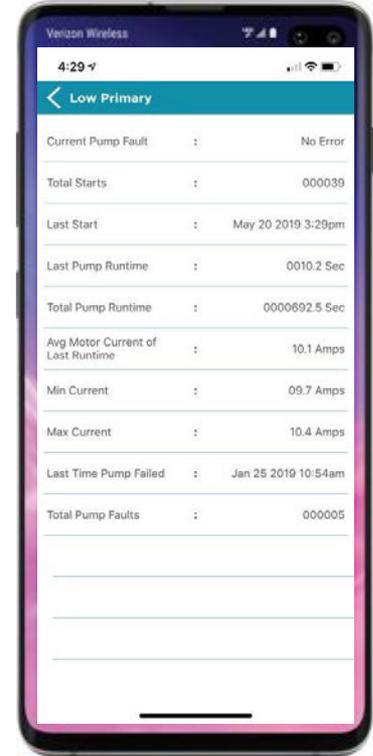
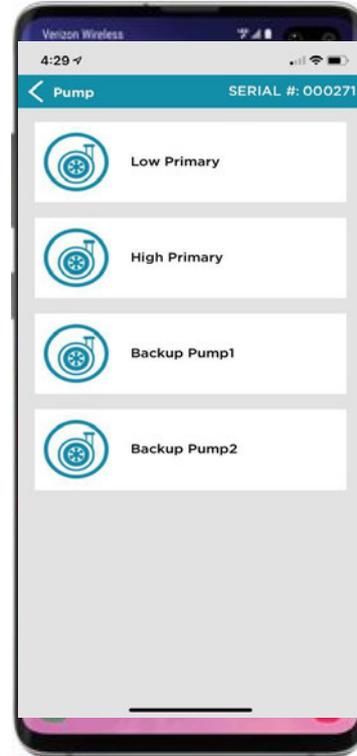
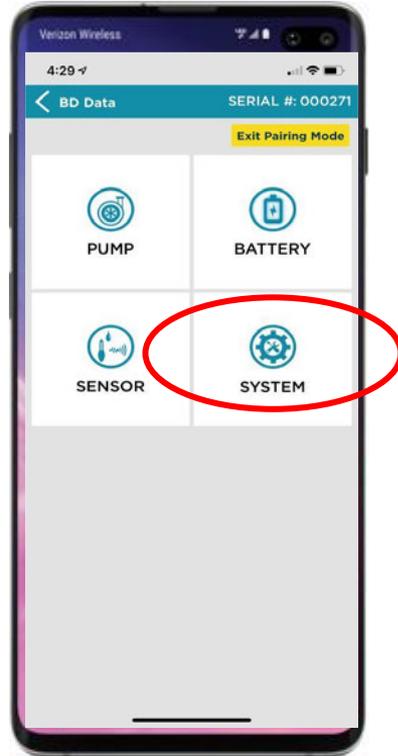
Confirm lights are now  
blinking GREEN





# View System Data

While in AP Mode, three steps to see test data.





# View System Data

While in pairing mode, three steps to see test data.

Verizon Wireless 4:29

< Low Primary

Current Pump Fault	:	No Error
Total Starts	:	000039
Last Start	:	May 20 2019 3:29pm
Last Pump Runtime	:	0010.2 Sec
Total Pump Runtime	:	0000692.5 Sec
Avg Motor Current of Last Runtime	:	10.1 Amps
Min Current	:	09.7 Amps
Max Current	:	10.3 Amps
Last Time Pump Failed	:	Jan 25 2019 10:54am
Total Pump Faults	:	000005

Verizon Wireless 4:31

< High Primary

Current Pump Fault	:	No Error
Total Starts	:	000126
Last Start	:	May 21 2019 9:00am
Last Pump Runtime	:	0005.0 Sec
Total Pump Runtime	:	0000009.7 Sec
Avg Motor Current of Last Runtime	:	10.0 Amps
Min Current	:	00.0 Amps
Max Current	:	10.3 Amps
Last Time Pump Failed	:	Jan 21 2019 12:24am
Total Pump Faults	:	000004

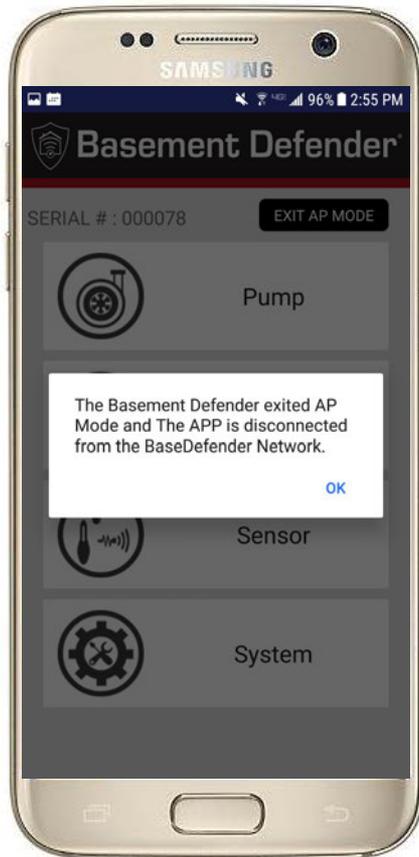
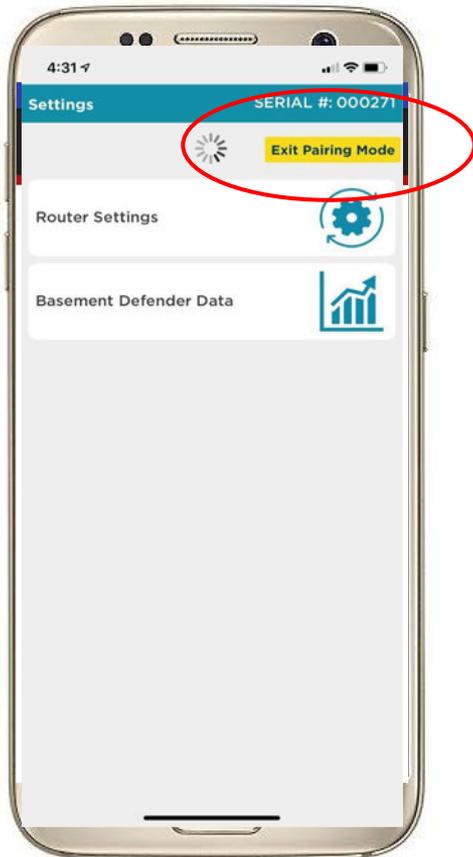
Verizon Wireless 4:31

< Backup Pump2

Current Pump Fault	:	No Error
Total Starts	:	000000
Last Start	:	None
Last Pump Runtime	:	0000.0 Sec
Total Pump Runtime	:	0000000.0 Sec
Avg Motor Current of Last Runtime	:	00.0 Amps
Min Current	:	25.5 Amps
Max Current	:	00.0 Amps
Last Time Pump Failed	:	None
Total Pump Faults	:	000000



# Exit AP Mode - FINAL STEP



System will automatically exit pairing mode after 30 minutes



# SUCCESS!!



**Press the TEST Button again until you hear 1 beep.**

**All lights should be GREEN!  
If the COMM light is red you most likely do not have the correct WiFi password.**

# CUSTOMER REGISTRATION

After the device is paired to the customer's WiFi network, an registration email will be automatically send to the registered email to set a password and register for a subscription plan.

The customer will not get text alerts without a plan, with a registered by a credit card.

We recommend the installer offers to help the customer sign up for a plan.

The subscription is not necessary for the Basement Defender to operate as a charging system and auto alarm if something fails. It also stores the Data for the Installer's reference.



**Made In America!**

For more information go to:  
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883 379 2768  
[info@basementdefender.com](mailto:info@basementdefender.com)

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