

AC Speedstick

WS-101

User manual



- Smart Condensate Overflow Switch
- Unitary & PTAC's
- Optional WiFi Alerts HVAC Tech
- Code Compliant / UL Listed
- Stainless Steel Sensors
- 10 Sec. Delay Reduces False Triggers
- Auto Reset When No Water Detected

WWW.ACSPPEEDSTICK.COM

“INSTALL AND GET THE CALL”

User manual

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Scan for online instruction

**install
instructions**



**wifi
set up**





Overview

Unitary Systems:

The AC SpeedStick WS-101 cuts the high voltage power to the transformer inside unitary air handlers. The AC SpeedStick does not communicate with the thermostat.

The AC SpeedStick WS-101 connects directly to the incoming 240-volt power in air handlers that do not have a heater. In air handlers with a heater, the AC SpeedStick WS-101 connects to the output terminals of the 60-amp heater circuit breaker.

The AC SpeedStick WS-101 can be mounted inside of the unitary air handler. The probe mounts into a 90° PVC elbow. Then the elbow is fitted to ¾" PVC pipe and threaded fitting into condensation float switch outlet. (Customer provided PVC fittings are required for installation)

**AC Speedstick
WS-101**





WS-101

WATERSWITCH

What's in the box?

- Air handler decals
- 3M double sided tape
- Instruction booklet
- Zip ties

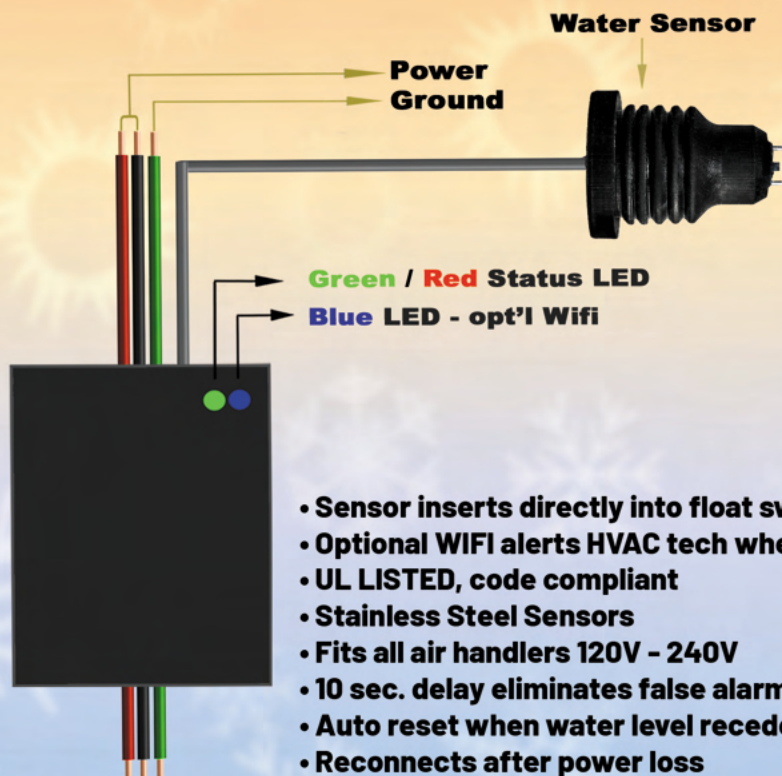


Wiring Diagram

WS-101

WATERSWITCH

FOR UNITARY AND PTAC's

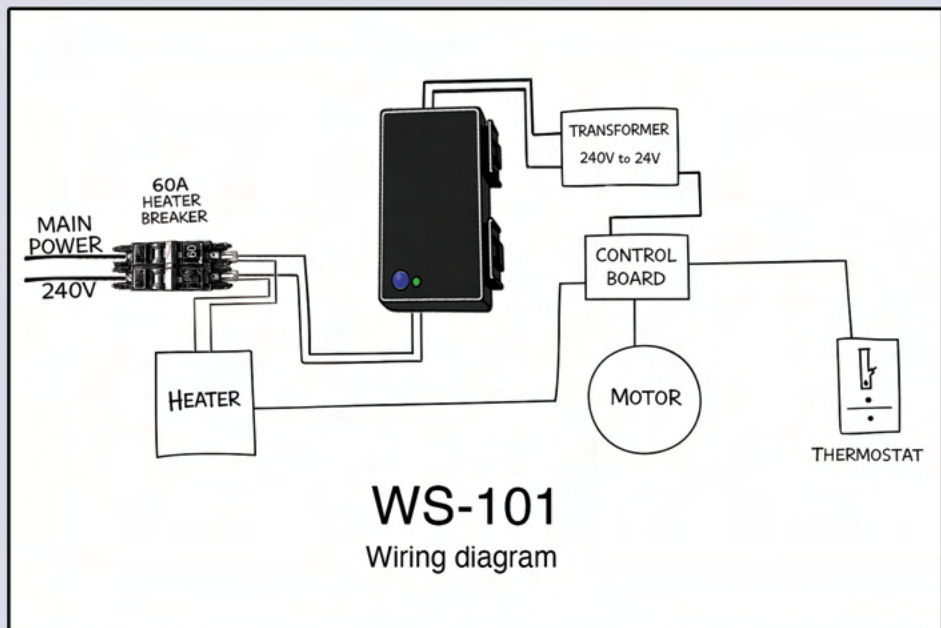


- Sensor inserts directly into float switch port
- Optional WIFI alerts HVAC tech when triggered
- UL LISTED, code compliant
- Stainless Steel Sensors
- Fits all air handlers 120V - 240V
- 10 sec. delay eliminates false alarms
- Auto reset when water level recedes
- Reconnects after power loss
- Includes decal for air handler
- PATENT PENDING



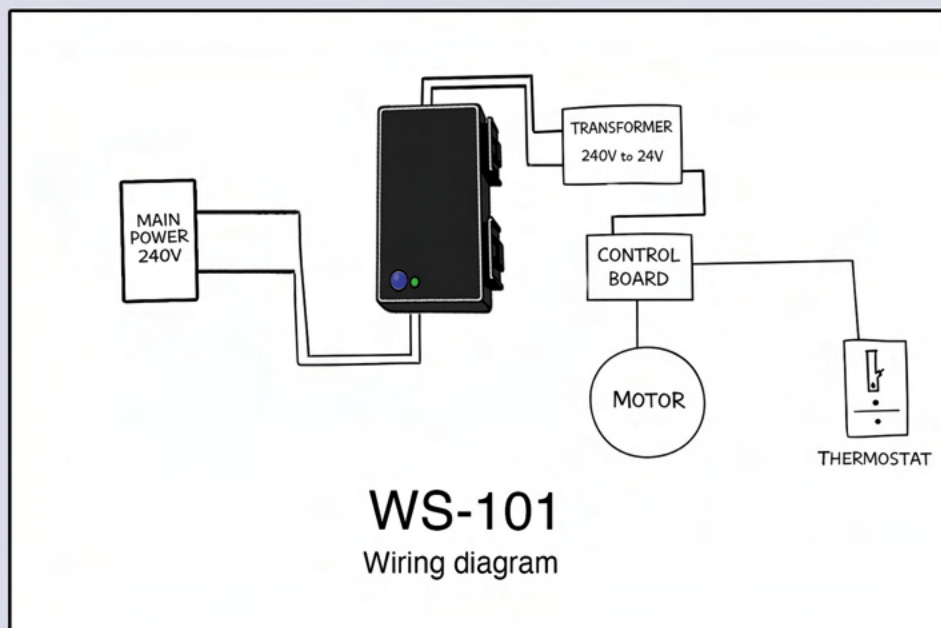
WIRING WITH HEATER

- 1 Ensure that power is shut off at the adjacent disconnect switch or at the main breaker.
- 2 Consult the air handler's installation manual to select the correct terminals.
- 3 In systems with heaters, connect the input side of the AC SpeedStick module to the spare terminals on the output side of the 60 amp breaker.
- 4 Connect the output wires from the AC SpeedStick to the input side of the air handler transformer.
5. The green ground wire can attach to factory air handler ground, or to metal chassis of air handler.

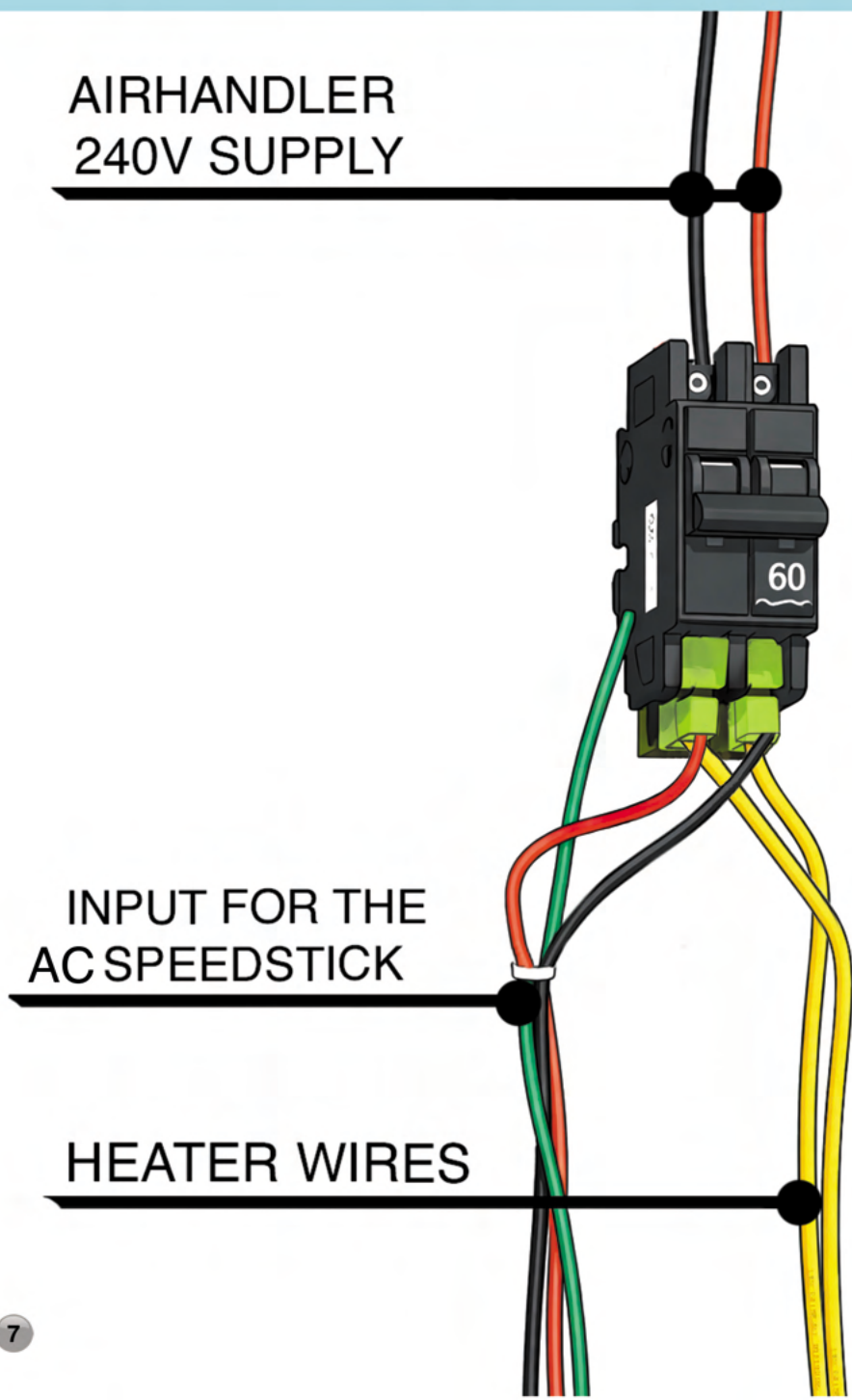


WIRING WITHOUT HEATER

- 1 Ensure that power is shut off at the adjacent disconnect switch or at the main breaker.
- 2 Consult the air handler's installation manual to select the correct terminals.
- 3 Connect the incoming power wires to the input side of the AC-Speedstick using wire-nuts.
- 4 Connect the output wires from the AC-Speedstick to the input side of the air handler transformer.
5. The green ground wire can attach to factory air handler ground, or to metal chassis of air handler.

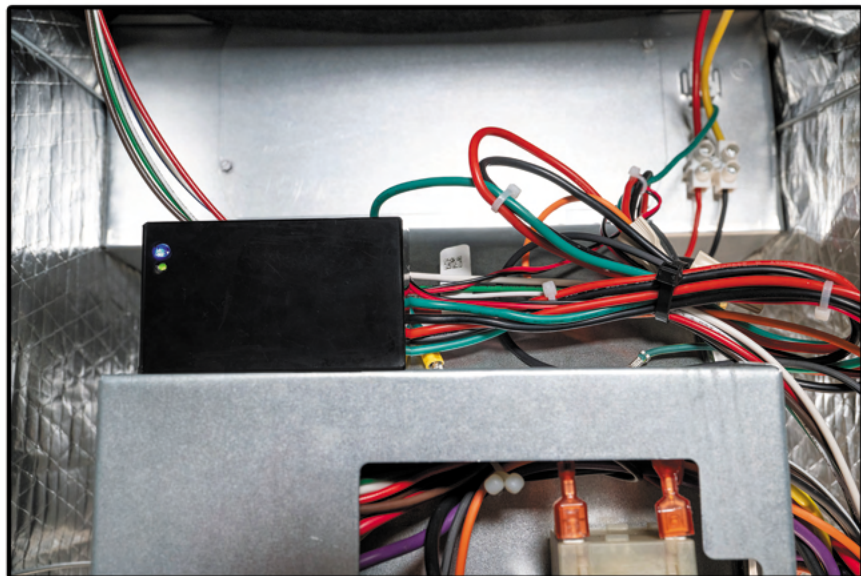


Circuit Breaker Example



Examples of WS-101 Installation

Module mounted interior of air handler.

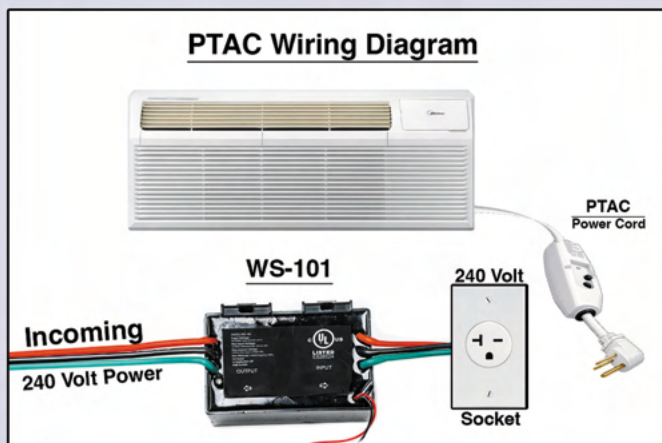


Probe inserted into outlet.

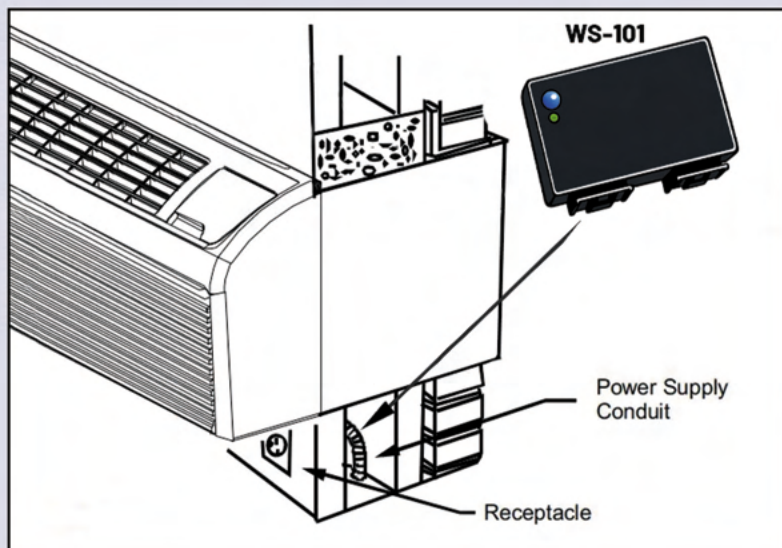


PTAC INSTRUCTIONS

The WS-101 will cut in between the incoming power and socket which powers the PTAC.

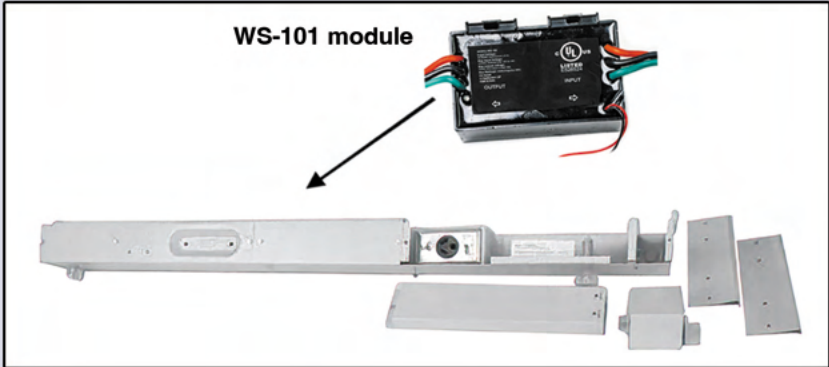


***Green Ground wire can be attached to the socket ground inside PTAC subbase.**



PTAC INSTALLATION

The AC SpeedStick WS-101 module can be mounted inside the metal subbase cover next to the PTAC socket, underneath the PTAC.



The sensor probe mounts into the top of a $\frac{3}{4}$ " PVC T-pipe under the PTAC drain pan.



TESTING & COMMISSIONING

- 1) Turn the power on at the breaker or disconnect switch.**
- 2) The module LED will illuminate Green. If the LED does not illuminate green, switch off the power and check the wiring.**
- 3) When the LED shows green, power on the air handler. If the air handler unit does not turn on, switch off the power and check the wiring.**
- 4) To prevent false alarms, a continuous contact of 10 seconds across the 2 sensor pins in the probe is required before the air handler switches off.**

If the probe sensor pins do not sense water contact for 10 seconds continuously, the air handler will turn back on.

Test by removing the probe from the drain outlet and shorting across the sensor pins with water or a metallic conductor. After 10 seconds the LED will illuminate RED and the air handler should stop.

Remove the water or the metallic conductor from the sensor pins in the probe and the air handler should start up again. Replace the probe securely in the drain outlet.

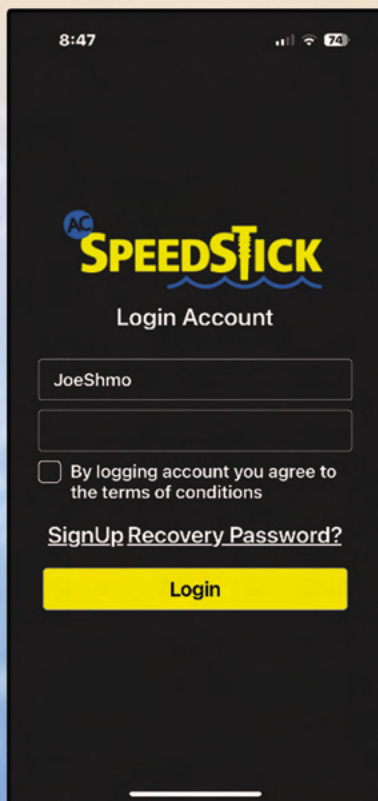
WIFI Hook Up for Iphone instructions



STEP BY STEP INSTRUCTIONS

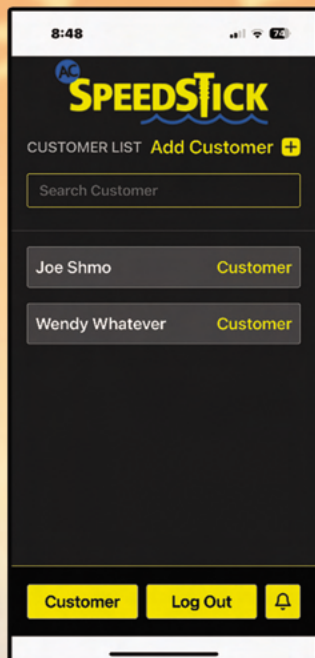
- 1) Download the AC Speedstick app from the app store for Iphone.
- 2) Upon opening you are brought to a login screen.
- 3) You will have to create credentials and verify email
- 4) Click small terms box then click LOGIN.

apple app.

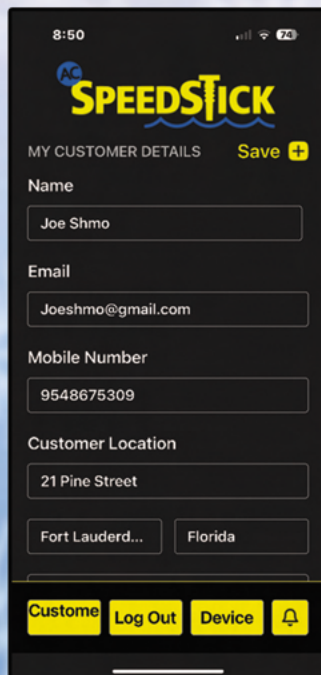


The screenshot shows the AC Speedstick app's login interface. At the top, the status bar displays the time 8:47, signal strength, Wi-Fi, and battery level at 94%. The app logo, 'AC SPEEDSTICK', is prominently displayed in the center. Below the logo, the text 'Login Account' is visible. There are two input fields: the first contains the username 'JoeShmo', and the second is empty. A checkbox is located below the password field, with the text 'By logging account you agree to the terms of conditions' next to it. Below the checkbox, there is a link that says 'SignUp Recovery Password?'. At the bottom of the form is a large yellow button labeled 'Login'.

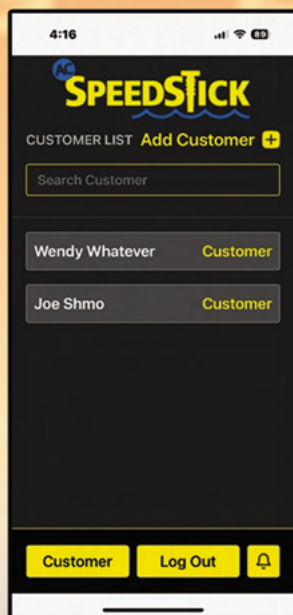
- 5) This next screen is your CUSTOMER page.
- 6) Click ADD CUSTOMER to create a customer.



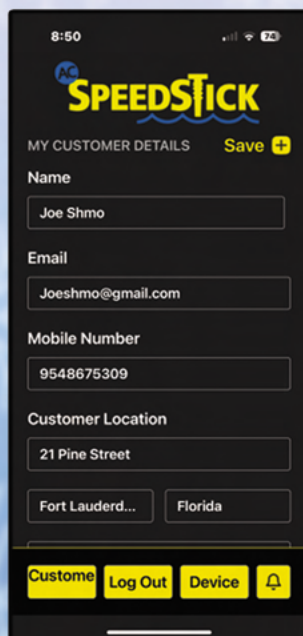
- 7) On this screen, you will enter the customers' details.
- 8) Click SAVE. (top right)



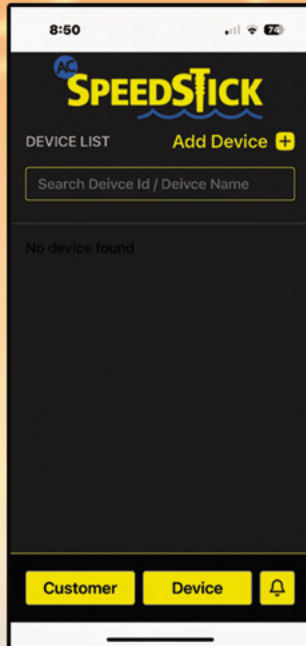
- 9) After you click save, it will go back to the CUSTOMER page.
- 10) Click on one of your customers. (NOTE: the CUSTOMER button will always bring you back to the CUSTOMER page.



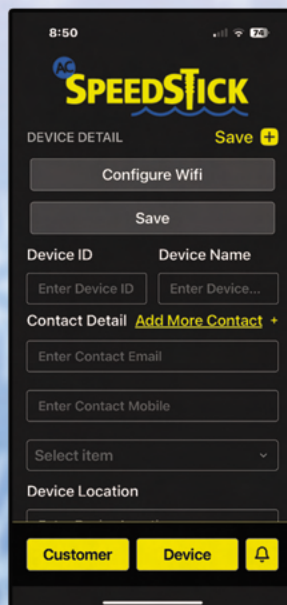
- 11) This will bring you back to the customer details, which is already complete.
- 12) Click on the DEVICE button bottom right.



- 13) This will bring you to the DEVICE page.
14) Click ADD DEVICE. (top right)

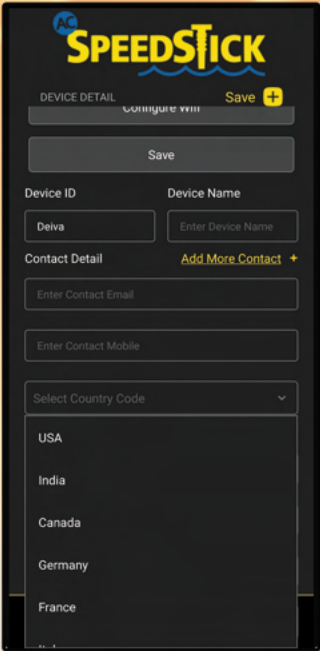


- 15) This will bring you to the CONFIGURE device page.
16) Skip Device ID for now and fill in the Device Name.
Examples of Device Names would be “Bedroom 1” or
“Living Room” or “Elevator 3.”



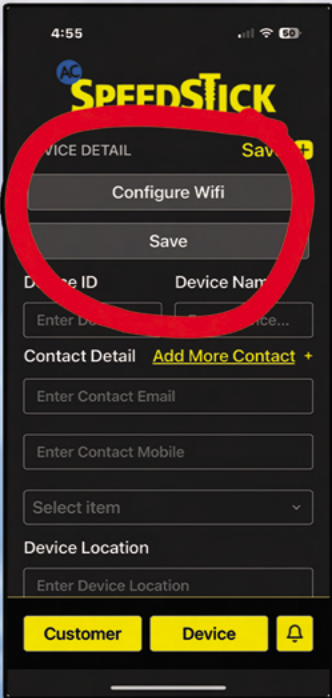
17) Then fill in the contact details, this would be the person or business that would receive the Text & Email alerts when the switch is tripped.

Note: Must select country code in drop down, to receive text alerts.



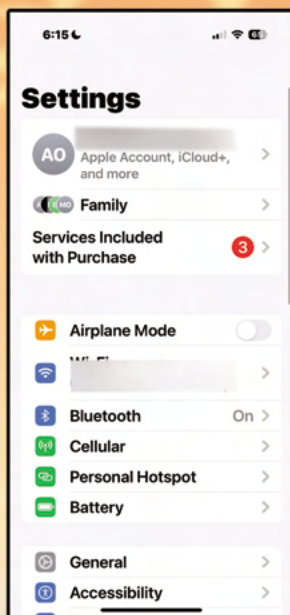
The screenshot shows the 'DEVICE DETAIL' screen in the SPEEDSTICK app. At the top, there's a 'Save' button with a plus icon. Below it is a 'Configure Wifi' button, which is circled in red. Underneath is another 'Save' button. The screen is divided into two sections: 'Device ID' and 'Device Name'. The 'Device ID' section has a text input field with 'Deiva' entered. The 'Device Name' section has a text input field with 'Enter Device Name' placeholder. Below these is the 'Contact Detail' section, which includes a text input field for 'Enter Contact Email', a text input field for 'Enter Contact Mobile', and a dropdown menu for 'Select Country Code'. The dropdown menu is open, showing a list of countries: USA, India, Canada, Germany, and France.

18) Click CONFIGURE WIFI.



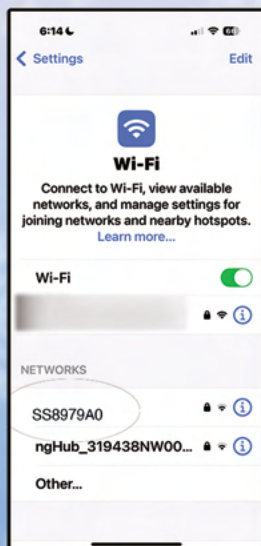
The screenshot shows the 'CONFIGURE WIFI' screen in the SPEEDSTICK app. At the top, there's a 'Save' button with a plus icon. Below it is a 'Configure Wifi' button, which is circled in red. Underneath is another 'Save' button. The screen is divided into two sections: 'Device ID' and 'Device Name'. The 'Device ID' section has a text input field with 'Enter Device ID' placeholder. The 'Device Name' section has a text input field with 'Enter Device Name' placeholder. Below these is the 'Contact Detail' section, which includes a text input field for 'Enter Contact Email', a text input field for 'Enter Contact Mobile', and a dropdown menu for 'Select item'. The dropdown menu is open, showing a list of items: USA, India, Canada, Germany, and France. At the bottom, there's a 'Device Location' section with a text input field for 'Enter Device Location'. At the very bottom, there are three buttons: 'Customer', 'Device', and a bell icon.

- 19) This will take you to your **SETTINGS**.
20) Scroll down and click **WIFI**.



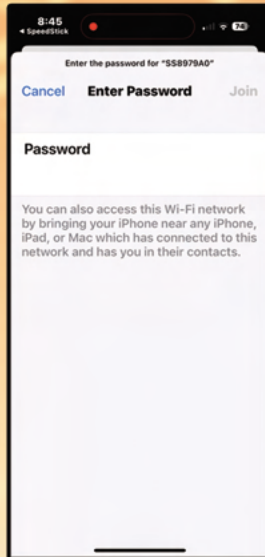
TECH TIP: *Installer needs to be close to the air handler and within WIFI range for WIFI hookup.*

- 21) In the **WIFI** screen, you will see your local **WIFI**, and towards the bottom of the screen you will see **NETWORKS**.
22) Look for a number beginning with **SS**, as you will see **SS8979AO** in below picture.



- 23) **IMPORTANT** Before you click on the **SS#**, take a screen shot or write the **SS#** number down.

- 24) After you have written down the SS#, click on the SS# number in your network.



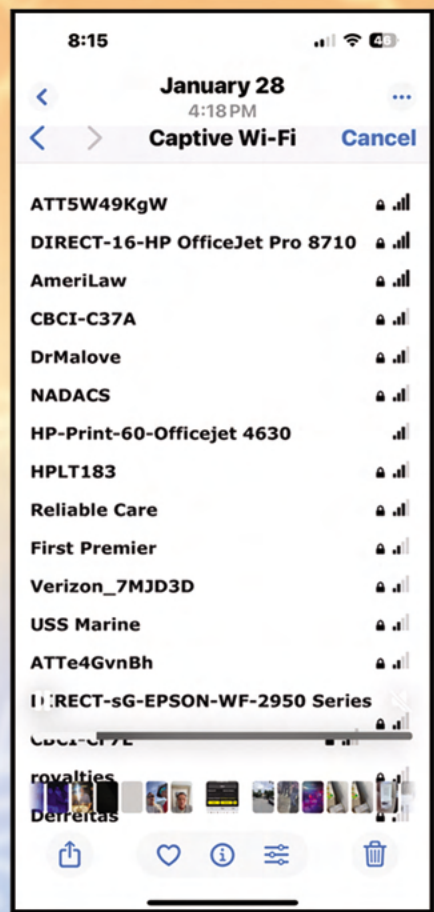
- 25) Enter the following password: **SpeedStick@1**

- 26) This will bring you to the WiFi Manager Screen.
27) Click Configure WiFi button.

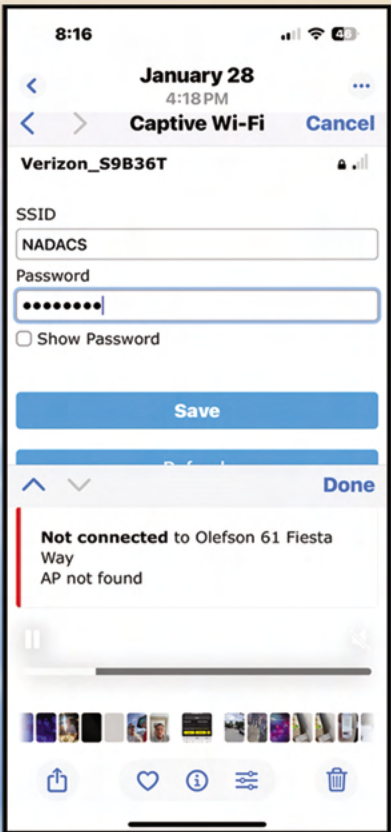


Note: It can take a few seconds to go to WIFI networks.

- 28) Choose WiFi Network.
- 29) You will need Wifi Password for the next step.



- 30) Enter WIFI Password.
- 31) Click SAVE.



- 32) Saving Credentials Page will take a few seconds and then disappear and bring you back to WIFI Networks.

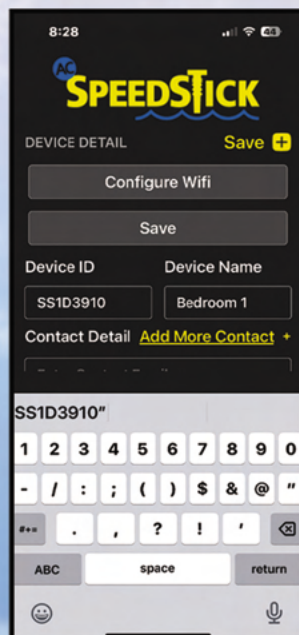


- 33) Open up the ACSpeedStick App again and enter the SS# in Device ID field.
34) Click SAVE top right.

Switch is now connected to the internet and will notify via e-mail and text, when the switch is tripped.

After Saving, it will bring you back to device page and you can click Customer Button to return to customer page.

For further support please contact: support@acspeedstick.com.



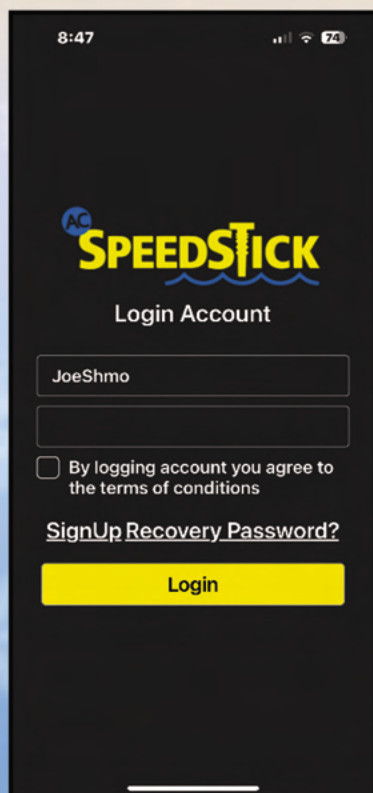
WIFI Hook Up for Android instructions



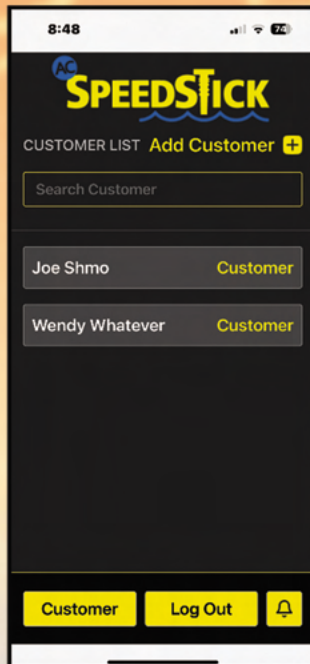
STEP BY STEP INSTRUCTIONS

- 1) Download the AC Speedstick app from Google play store.
- 2) Upon opening you are brought to a login screen.
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- 4) Click small terms box then click LOGIN.

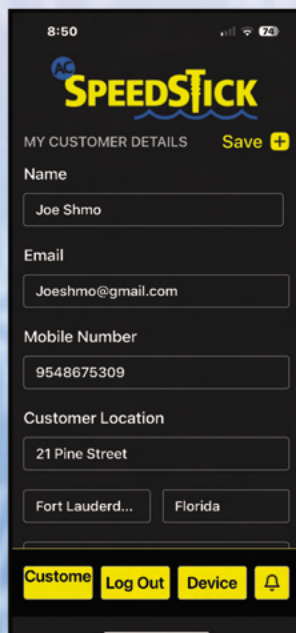
android app.

A screenshot of a mobile app's login screen. At the top, the status bar shows the time 8:47, signal strength, Wi-Fi, and battery at 74%. The app logo 'AC SPEEDSTICK' is displayed, with 'AC' in a blue circle and 'SPEEDSTICK' in yellow. Below the logo is the text 'Login Account'. There are two input fields: the first contains 'JoeShmo' and the second is empty. Below the fields is a checkbox with the text 'By logging account you agree to the terms of conditions'. At the bottom are three links: 'SignUp', 'Recovery', and 'Password?'. A yellow 'Login' button is at the very bottom.

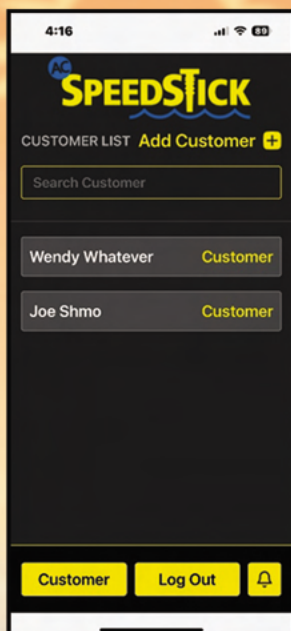
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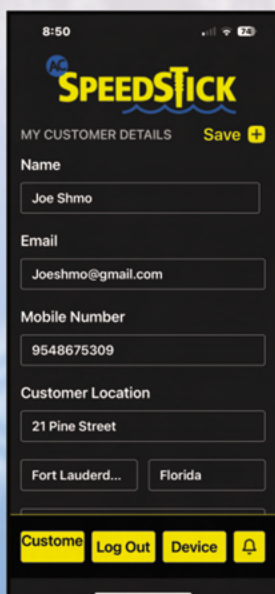
- 7) On this screen, you will enter the customers' details.
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- 9) After you click save, it will go back to the CUSTOMER page.
10) Click on one of your customers.



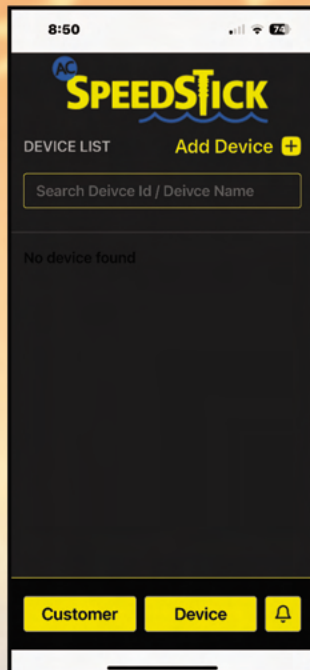
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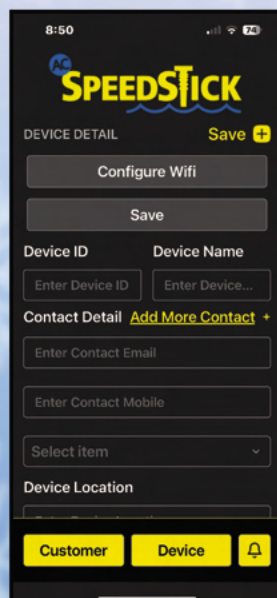
13) This will bring you to the DEVICE page.

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- 17) Then fill in the contact details, this would be the person or business that would receive the Text & Email alerts when the switch is tripped.

Note: Must select country code in dropdown, to receive text alerts.

SPEEDSTICK

DEVICE DETAIL Configure Wifi Save +

Save

Device ID Device Name

Delva Enter Device Name

Contact Detail Add More Contact +

Enter Contact Email

Enter Contact Mobile

Select Country Code ▼

- USA
- India
- Canada
- Germany
- France

- 18) Click CONFIGURE WIFI.

4:55 signal Wi-Fi Battery

SPEEDSTICK

DEVICE DETAIL Save +

Configure Wifi

Save

Device ID Device Name

Enter Device ID Enter Device Name

Contact Detail Add More Contact +

Enter Contact Email

Enter Contact Mobile

Select item ▼

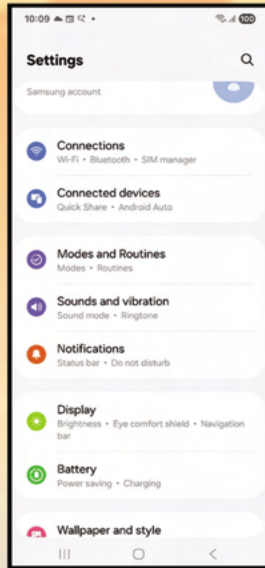
Device Location

Enter Device Location

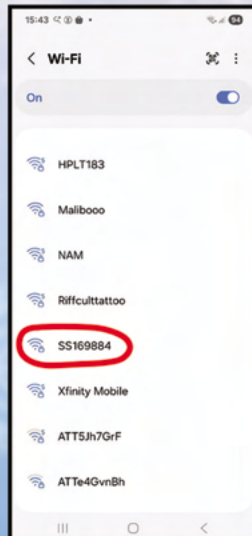
Customer Device Notification Bell

- 19) This will take you to your **SETTINGS**.
20) Scroll down and click **WI-FI**.

TECH TIP: *Installer needs to be close to the air handler and within WI-FI range for WI-FI hookup.*



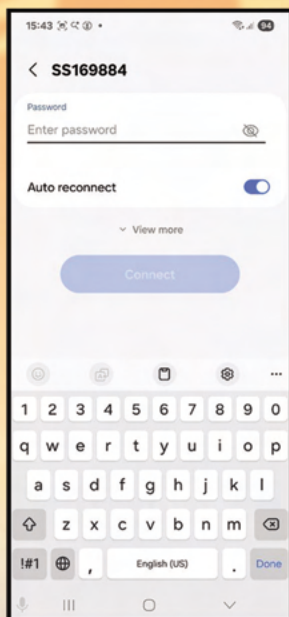
- 21) In the **WI-FI** screen, you will see your local Wi-Fi, and towards the bottom of the screen you will see **NETWORKS**.



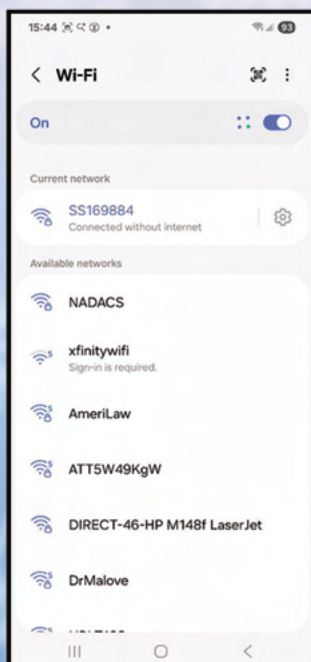
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24) After you have written down the SS#, click on the SS# number in your network.

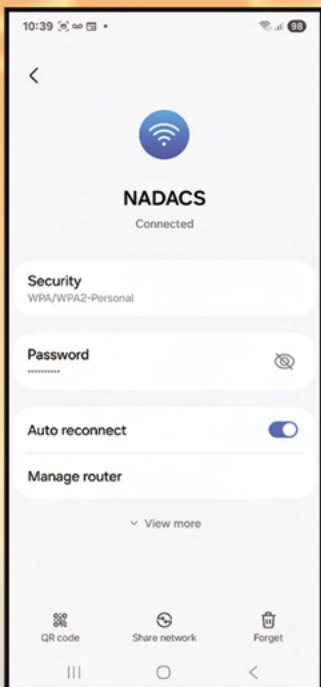
25) Enter the following password: **SpeedStick@1**



26) After password is entered, Android brings you to Wi-Fi page and you will see the SS# listed under 'Current network'. Click on the 'settings icon' to the right of SS#.

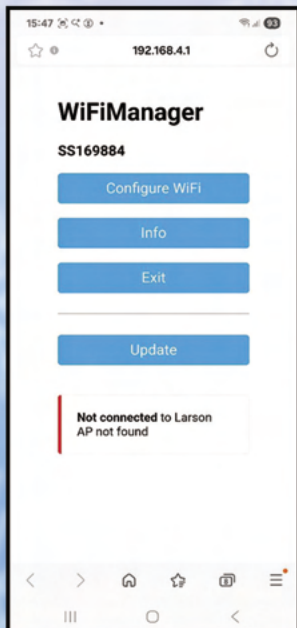


27) This will bring you to the WiFi page, scroll down and click on 'Manage Router'.



28) Click Configure WiFi button.

Note: Can take a few seconds to go to WIFI networks.



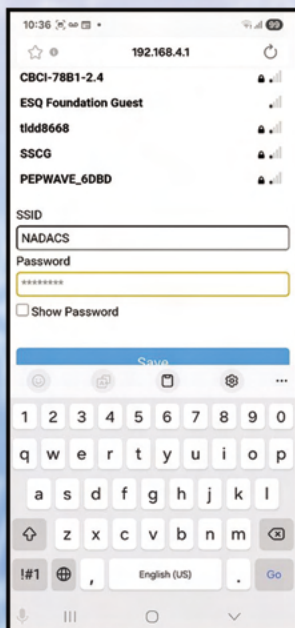
29) Choose WIFI Network.

30) You will need WIFI Password for the next step.



31) Enter local WIFI password.

32) Click on SAVE.



- 33) Saving Credentials Page will take a few seconds. If it does not advance to another screen after 1 minute, then open up the AC SpeedStick app again. The blue LED light on the module should be solid blue at this point.

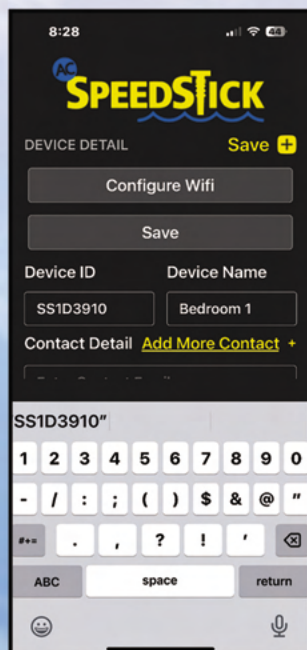


- 34) Open up the ACSpeedStick App again and enter the SS# in the Device ID field.
35) Click SAVE top right.

Switch is now connected to the internet and will notify via e-mail and text, when the switch is tripped.

After Saving, it will bring you back to device page and you can click Customer Button to return to customer page.

For further support please contact: support@acspeedstick.com





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