

**blink**<sup>®</sup>

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# Level 2 Wall Mount Charging System Owner's Manual



**Simply Smart.**

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Rev #	Changes Made
2.0	Revised cover art, updated screen images, and added new settings information
2.1	Updated warnings and insert model conversion information

The current version of this manual is available online at [www.Blinknetwork.com/help](http://www.Blinknetwork.com/help)



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# IMPORTANT SAFETY INSTRUCTIONS

## SAVE THESE INSTRUCTIONS

Before using the **Blink** Electric Vehicle Supply Equipment (EVSE), hereafter called “charger” or “charging system”, read all of these instructions, as well as the **WARNING** and **CAUTION** markings in this document, on the charger, and on your vehicle.

---

### Legend

-  **WARNING:** Used when there is a risk of personal injury
  -  **WARNING: RISK OF ELECTRIC SHOCK** – Used when there is a risk of electric shock
  -  **WARNING: RISK OF FIRE** – Used when there is a risk of fire
  -  **CAUTION:** Used when there is a risk of damage to the equipment
- 



### **WARNING: RISK OF ELECTRIC SHOCK**

Basic precautions should always be followed when using electrical products, including the following:

- a. Read all the instructions before using this product.
- b. This device should be supervised when used around children.
- c. Do not put fingers into the electric vehicle connector.
- d. Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- e. Do not use this product if the enclosure or the EV connector is broken, cracked, open, or show any other indications of damage.
- f. **MODELS WN-30C GROUNDING INSTRUCTIONS:** (Cord-connected models) This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

g.  **WARNING: RISK OF ELECTRIC SHOCK**

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

h. **MODEL WN-30K GROUNDING INSTRUCTIONS:** (Permanently connected models)

This product must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.



**WARNING: RISK OF ELECTRIC SHOCK**

- Do not touch live electrical parts.
- Verify that the system is properly installed and grounded according to its installation manual and national, state, and local codes.
- Incorrect connections may cause electric shock
- Disconnect input power before installing or servicing the equipment.



**WARNING: Models WN-30C– Indoor use only**

Cord-connected models of this equipment are intended for indoor use only. These models can be converted for permanent connection for outdoor use. See the *Level 2 Wall Mount Installation Manual* for details.



**WARNING: No user-serviceable parts inside**

If any component part is found to be damaged and/or in need of service, have all such service performed by a certified electrical contractor or qualified Blink charger service facility.



**CAUTION:** This Blink EVSE's factory default current setting is 30 amps. If the device is connected to a lower current setting, a qualified Blink technician must adjust the device settings and reset the unit before use.

# Federal Communications Commission (FCC) and Industry Canada (IC) Regulatory Statements and Notices

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## NOTICE:

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This equipment, has been granted FCC and IC limited single modular approval under

FCC-ID: Y5X53339474278 and

IC-ID: 9443A-53339474278, with Model no.: RFID Board Version 1.4.

Installation is restricted to host devices manufactured by the Grantee, which is

Electric Transportation Engineering Corporation (ETEC) d.b.a. ECotality North America

Incorporation of the modular equipment into mobile or fixed host devices (i.e. those having at least 20cm distance from persons) is permitted if in compliance with the conditions given in the grant. If those conditions are not met, the configuration shall be subject to FCC / IC approval (change approval under the existing FCC/IC ID or under a new FCC/ID, dependent on the detail conditions). Incorporation into portable host devices (i.e. those having less than 20cm distance from persons) normally requires new FCC / IC approval.

In any case of uncertainty FCC/IC or a TCB shall be contacted.

Co-location with other radio transmitters (modular or non-modular) shall be subject to assessment against the grant conditions of this equipment as identified above as well as those given in the grants of the other radio transmitter(s).

If the FCC ID and IC ID of this modular approved equipment cannot be seen from the exterior of the host device, the host device shall bear a second label stating:

"Contains FCC ID: Y5X53339474278"

"Contains transmitter module IC: 9443A-53339474278"

**NOTICE:**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**AVIS:**

Toute modification non autorisée par (nom du manufacturier) apportée à cet équipement pourrait entraîner l'annulation de l'autorisation de la IC d'opérer cet équipement.

Radiofrequency radiation exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and the user's body.

Information sur l'exposition de radiation radioélectrique

Cet équipement est conforme aux exigences de radiation radioélectrique de la FCC pour un environnement non contrôlé. Il devrait être installé et opéré d'une distance minimum de 20 cm entre le radiateur et votre corps. L'émetteur ne doit pas être situé ou opéré en conjonction avec une autre antenne ou émetteur.

Antenna Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

# Welcome to Blink

## Blink features

The Blink charging system makes your day-to-day vehicle charging experience convenient and cost effective. Its software is intuitive and user-friendly, making this system easy to set up and easy to use.



### Touch screen

Full access at your fingertips:

- Start and stop charging
- Schedule future charging
- View charging history
- Protect with your unique PIN

### Charger enclosure

Durable housing that is sun- and heat-resistant

### Cord

- 18 feet long
- Flexible in freezing temperatures
- Durable for years of use

### Cord reel

Keeps your cord off the ground, clean and tidy:

- Wraps it up – just like a garden hose
- Holds the connector firmly in the holster – just lift up the connector to clear the “fingers”
- Protects the connector from the weather

### Connector

- Locks in place in the vehicle inlet to prevent accidental disconnection
- Safe in wet or dry use
- No power unless locked in place – grounded pole is first to make contact, last to break contact
- Designed for over 10,000 charging cycles
- Meets US standards – SAE J1772™

## A closer look at...

### Your Blink connector



Every time you firmly plug the Blink connector into your car's inlet, you can hear it "click" as it locks into place. To unlock it, just press this button. It also sits firmly in the connector holster on the Blink cord reel, to keep it from falling on the ground.

### Your Blink touch screen

Main Stats Settings Info Help

blink

Time Until Charge  
00:00

Your Next Charge  
is Scheduled to Begin  
at 3:21 AM

Reschedule Charge | Start Charging Now

8:51 AM | FRIDAY DECEMBER 10, 2010

Go ahead and touch it! It's just like clicking a computer mouse. Touch **Stats** to see your charging history, **Settings** to change how and when your Blink does things, **Info** to see where the other Blink units live, **Help** when you're stuck, and **Main** to get back here. Or you can **Reschedule Charge** or **Start Charging Now**.

This icon shows whether your Blink unit is connected to the Internet via your home network:

- Green signal – Wireless network connected
- Black signal – Wireless network not connected
- Green arrows – LAN connected
- Black arrows – LAN not connected
- Green signal – CDMA connected

### More Blink features

#### Internal energy meter

Blink has a built-in energy meter, so some local utilities won't require the installation of a second meter.

- Monitors energy usage and demand
- Provides certified energy and metered demand response, so it can support electric utility electric vehicle billing when certified to ANSI C12.20 and IEC standards (if supported by your local electric utility)
- Supports energy usage data evaluation

## Flexible communications

Blink has many ways to connect to the Internet:

- Wireless IEEE 802.11b/g
- CDMA wireless cellular modem (for Blink support use when your home network is unavailable)
- LAN (Ethernet)
- Future expandability to Silver Spring AMI, and other platforms for communicating with your smart meter and other home energy control applications

## Safety

Blink safety features:

- Certified to UL 2594 – Electric Vehicle Supply Equipment
- Will not turn on the system's power unless the connector is properly latched in the vehicle's inlet – with an audible click
- Communicates with your vehicle when the Blink connector is plugged into the vehicle inlet, so the vehicle will not drive until the connector is unplugged
- Turns off the charging power if the Blink connector or cable is subjected to excessive strain
- Charge circuit interrupting device (CCID) and ground monitoring circuit
- Meets all National Electric Code and UL requirements related to electric vehicle charging systems

## Even more from your Blink

- Restarts automatically after a power outage
- Provides adjustable output current to support electric utility demand response requests, where available (and with your permission)
- Complies with the Americans with Disabilities Act (ADA), and can be installed in a variety of configurations to meet your needs
- Prevents energy theft with an optional tamper-evident seal, similar to the seal on your utility meter. Your Blink charging system installer will install this seal

## The Blink Network

The Blink Network supports the entire Blink family, including your home unit, public chargers, and DC Fast Chargers, where available. With its two-way Internet communications and dedicated network operations center, the Blink Network is designed to both grow and change to meet the needs of electric vehicle and plug-in hybrid electric vehicle owners.

The Blink Network includes:

- The Blink Portal, providing friendly, near real-time access to the Blink Network and downloadable operator manuals
- Automatic firmware updates, so your Blink charging station can be updated when new capabilities and functionality become available
- 24x7 Contact Center with live customer support
- Smart Grid implementation and support where available
- Secure, high-availability infrastructure and software technologies that ensure that your information is always safe from others and available to you

Subscription to the Blink Network is optional. However, many of the powerful features available to your Blink charging system can only be accessed through the Blink Network. To see the Blink Network membership options, please visit [www.Blinknetwork.com](http://www.Blinknetwork.com).

## The Blink Portal

The Blink Portal presents all the information you need in one place. With your customizable Blink Dashboard, you can quickly view and interact with the Blink Network to access dynamic information any time from your mobile phone or over the Internet.

Blink Portal features include:

- **Customizable Blink Dashboard** with an easy “drag-n-drop” interface – choose the Blink Gauges you want to see every time you log in, such as how much energy you saved or how much your vehicle reduced your CO<sub>2</sub> output. Gauges will be expanded based on user input.
- **Advanced map technology** to find public charging stations and see their status, plan a trip, and more. Need a charging station near your destination? Simply search by address or zip code. Soon you will even be able to reserve a charging station from this portal.
- **Personalization** – lets you store favorite view points and makes suggestions based on your usage.
- **Management tools** that let you update your Blink system’s charging schedule and set up event notification via email or text message, such as sending an alert when charging stops.
- **Security features** such as a unique user name, password, and challenge questions.
- **RFID Smart Card and fob purchase & management**, so you can use public charging stations.

# Setting up Blink

## Calibrate the Blink touch screen

The first time you start up Blink, the touch screen needs to be calibrated, much like the screen on a personal digital assistant. This process is very simple – and Blink will walk you through it!

- 1** A small plus sign (+) appears in one corner. Touch the plus sign. Repeat this step four times as the plus sign moves around the screen, first to each corner and then to the center of the screen.
- 2** A circle (O) appears in one corner. Touch the circle. Repeat this step three times as the circle moves to each corner.
- 3** A *Calibration Complete* message appears in the center of the screen. Touch this message to continue.

## Start the setup process

Once the Blink touch screen has been calibrated, the **Welcome** screen appears.



 **tip** You can set up your Blink charging system later if you want, or skip any step in the Setup process. Change your Blink unit's settings any time, by touching **Settings** on the Main screen.

Main Stats Settings Info Help

**Please Plug in Your Vehicle.**

Charging will begin at **3:21 AM**

Off-Peak | 0%  
Cost | \$0.00  
Estimated.  
Start Time | 10:49 AM  
JANUARY 1ST, 2006  
Elapsed Time | 00:02  
Ended at 10:51 AM

2:56 PM | THURSDAY DECEMBER 9, 2010

Touch **Settings** to change your Blink's settings later.

Main Stats Settings Info Help

**Charge Schedule**   **Device Info**  
**kWh Rate(s)**   **Network Setup**  
**Date & Time**   **Network Test**  
**Change PIN**   **Display**  
**Location**   **Intranet**

12:01 AM | MONDAY, JANUARY 3RD 2011

OK TO PLUG IN 

## Step 1 — Network Setup

One of the most important features of your new Blink charging system is its ability to communicate over a network. This enables subscribers to access many powerful features via the Blink Network, and with your permission, may allow your local utility company to communicate directly with your charging system. It also enables remote updates of your charging system's software and firmware.

Your charging system is equipped to communicate over the Internet in two ways:

- **Wi-Fi** – If your home has a wireless network, your charging system can connect to it via Wi-Fi. The **Network Setup** screen may show your wireless network automatically, in which case you can just touch **Configure** next to your network's name. If you do not see your wireless network because it is set to "not broadcast" or "hidden SSID", touch **Manually Connect to Wi-Fi**. (If your wireless network is not displayed, it may be out of range of your Blink charging system.)
- **Local Area Network (LAN)** – If your home has an Internet connection, but not a wireless network, your charging system can connect to the Internet via an Ethernet connection. An Ethernet cable connects your charging system directly to the LAN. The Ethernet port on your Blink charger is the center port on the bottom of the charger assembly, and is covered with a black, plastic cap. Simply pull back the cap and plug in the cable.

**CAUTION:** The Ethernet port delivered with your Blink charging system is intended for indoor use only (such as in a garage). Contact the Blink Call Center or a qualified Blink installer for information on the additional requirements for a safe outdoor Ethernet connection.

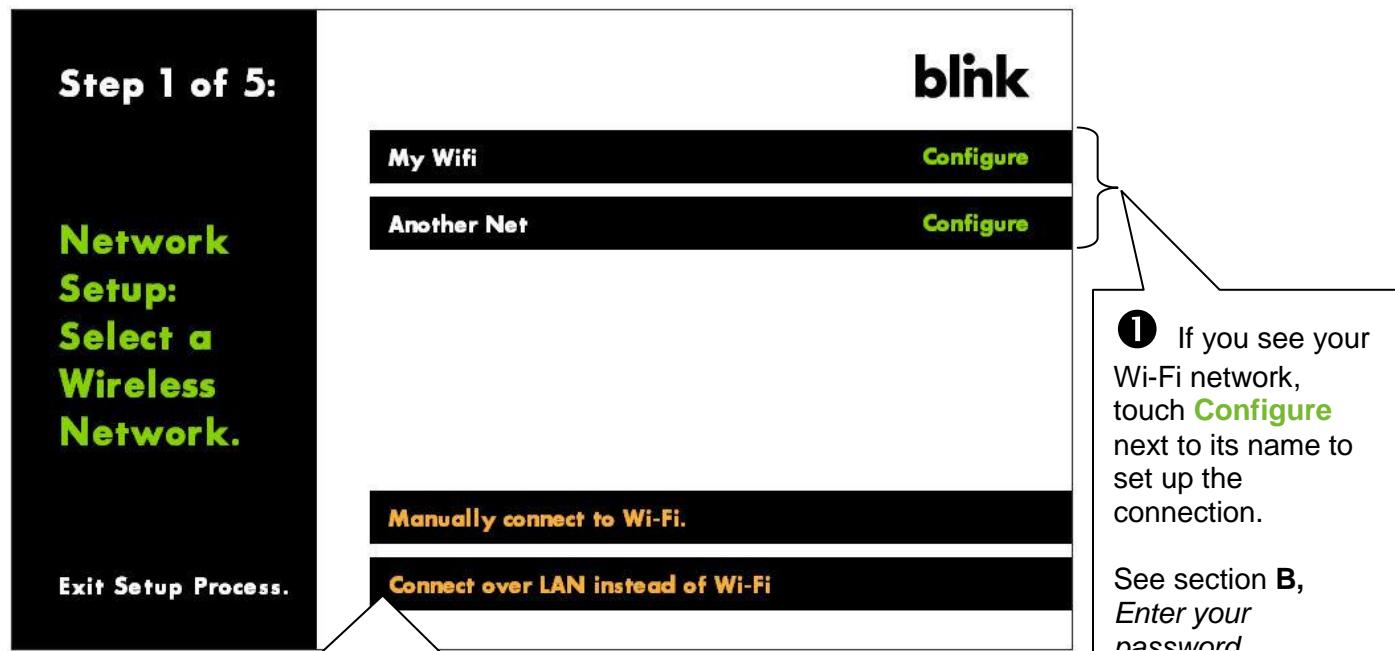


### Notes:

- Before you can set up the network for your Blink charging system, your home must already have an Internet connection, with either (a) a wireless network or (b) an available Ethernet port on a modem or router and an Ethernet cable that reaches from that port to the charging system.
- We recommend that you obtain the wireless network setup information for your home network before you start, such as the SSID and password.

## Step 1 (continued)

### A. Select your home network type

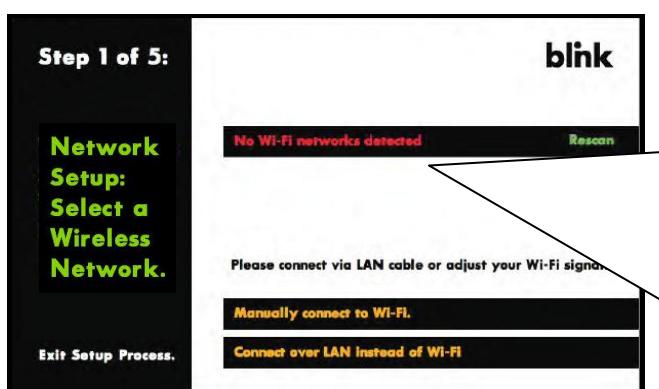


**2** If you do not see your network, touch either:

- **Manually connect to Wi-Fi.**  
See section **E, Set up Wi-Fi manually.** or
- **Connect over LAN instead of Wi-Fi.**  
See section **B, Enter your password.**

If this **No Wi-Fi Networks Detected** message appears, the charging system currently cannot connect to a wireless network.

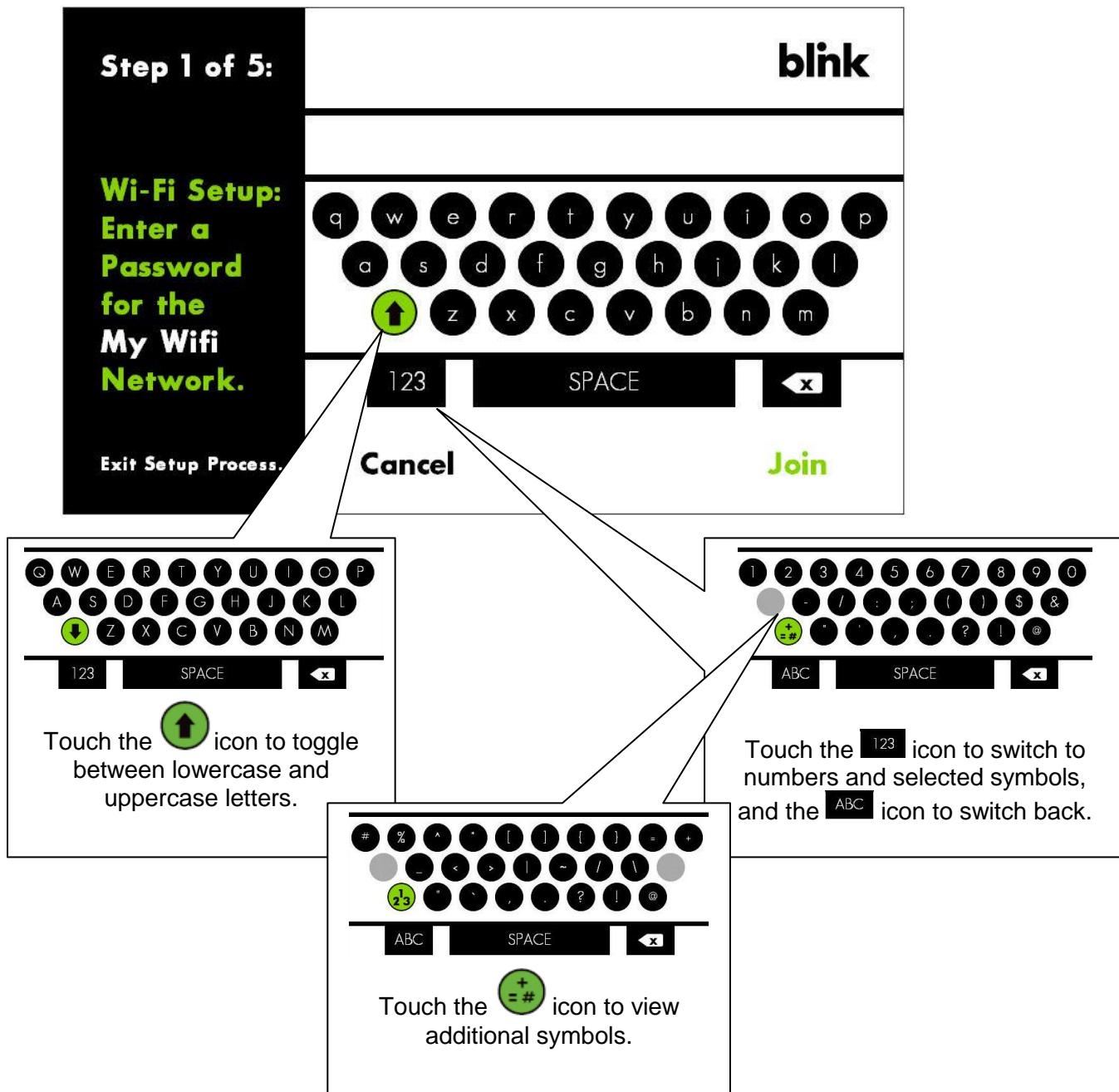
- Confirm that your wireless network is operating properly; if not, correct the problem, touch **Rescan**, and then touch **Configure** to the right of the network name when it appears.
- If your wireless network is set to “not broadcast” or “hidden SSID”, touch **Manually Connect to Wi-Fi.** See section **E, Set up Wi-Fi manually.**
- If neither of these solutions work, your wireless network is probably out of range. To solve this, you can move your wireless router closer or add a wireless repeater to your network.



## Step 1 (continued)

### B. Enter your password

If the network you selected has been secured with a password, the keypad screen appears. This on-screen keyboard works much like the keypad on a cell phone, in that the main keypad shows only lowercase letters, and you toggle to other keypad screens for uppercase letters, numbers, or symbols.

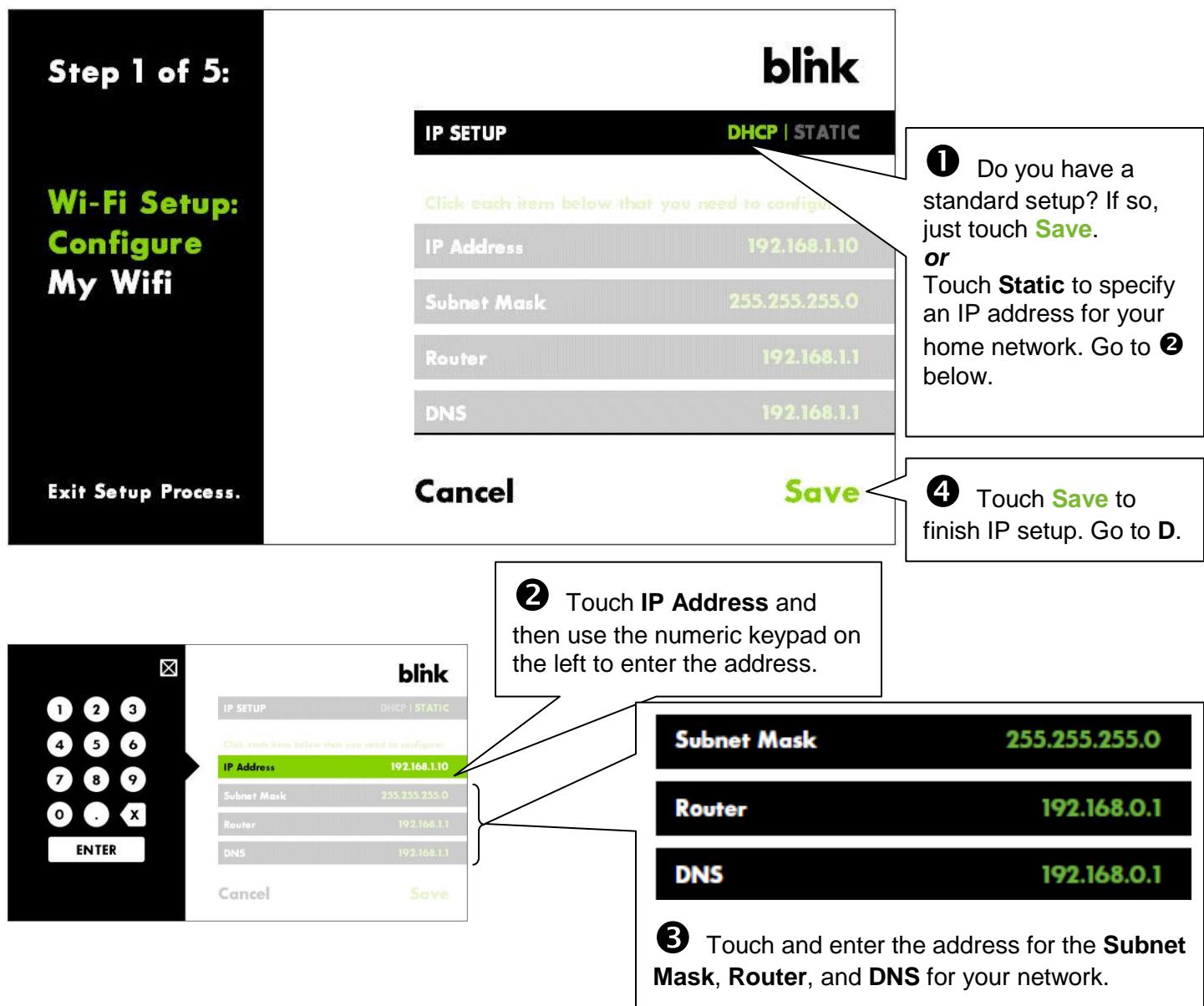


## Step 1 (continued)

### C. Set up the IP

Most users do not need to change the settings shown on the **IP Setup** screen. The typical installation simply allows DHCP to assign the IP address and associated settings; in this case, all you need to do for this screen is touch **Save**.

If you are an advanced user familiar with network setup, you may choose to specify a static IP address and associated settings. In this case, follow the steps shown below.

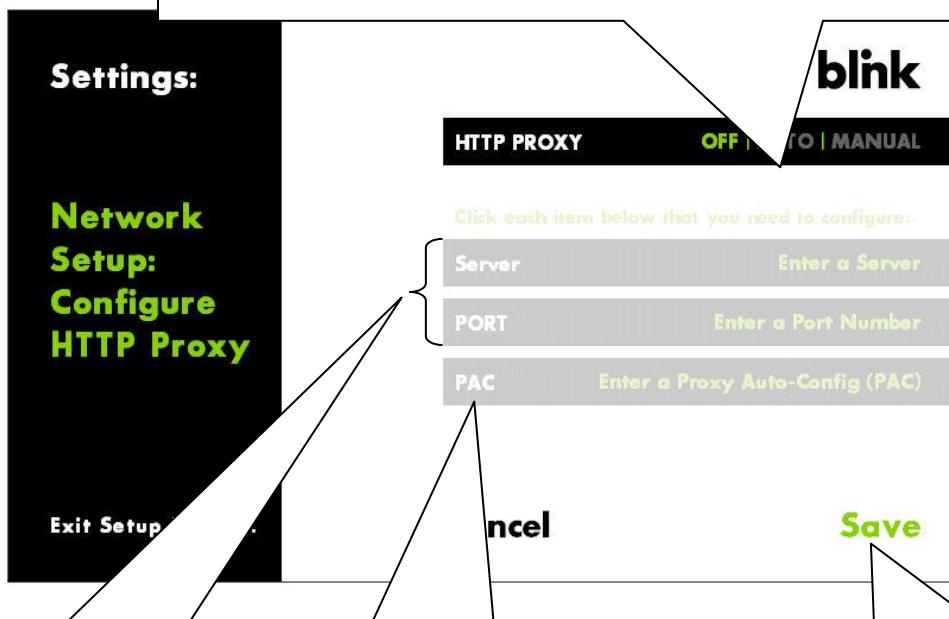


## Step 1 (continued)

### D. Set up an HTTP Proxy

Very few networks require you to set up an HTTP Proxy; this is an advanced option. In those rare cases that this is necessary, it is generally sufficient to select **AUTO**, which allows you to enter the URL and lets the system assign a port. To manually assign both the URL and port, choose **MANUAL**.

- 1** To set up an HTTP Proxy:
- Touch **AUTO** to enter the server address and let the system assign the port.
  - Touch **MANUAL** to enter the server address and port.



HTTP PROXY	OFF   AUTO   MANUAL
Click each item below that you need to configure:	
Server	Enter a Server
PORT	Enter a Port Number
PAC	Enter a Proxy Auto-Config (PAC)

**2** If you chose **MANUAL**, touch and enter the Server address (e.g., user:password@myproxy.com) and Port Number

HTTP PROXY	OFF   <b>AUTO</b>   MANUAL
Click each item below that you need to configure:	
Server	Enter a Server
PORT	Enter a Port Number
PAC	Enter a Proxy Auto-Config (PAC)

**2** If you chose **AUTO**, touch **PAC** and enter the PAC URL.

- 3** Once you finish entering HTTP Proxy settings, touch **Save** to complete setup and connect to your network.

## Step 1 (continued)

Once Network Setup is complete, your Blink charging system automatically performs a network test, confirming that all of the settings are correct.

**Step 1 of 5:**

**Network Setup: Connection Test.**

Exit Setup Process.

**Testing Passed**

blink	
Connected to Ethernet	<b>PASS</b>
IP Address Acquired	PASS
Local Area Network Acquired	PASS
DNS Name Resolution Confirmed	PASS
Proxy...	N/A
Blink Network Accessed	PASS

**Continue**

**tip** If a network test fails, touch the name of the test to go directly to the setup step for that setting and correct it.

1 Touch **Continue** to proceed to Step 2.

**Step 1 of 5:**

**Network Setup: Connection Test.**

Exit Setup Process.

**Testing Failed**

blink	
Connected to Ethernet	PASS
IP Address Acquired	PASS
Local Area Network Acquired	PASS
DNS Name Resolution Confirmed	PASS
Proxy...	N/A
Blink Network...	CONNECTION FAILED ➔

**Skip | Restart Setup**      **Retry Test**

If the Network Test fails:

- Touch **Skip** to resolve the issue later.
- Touch **Restart Setup** to check and correct the network settings.
- Touch **Retry Test** to try again.

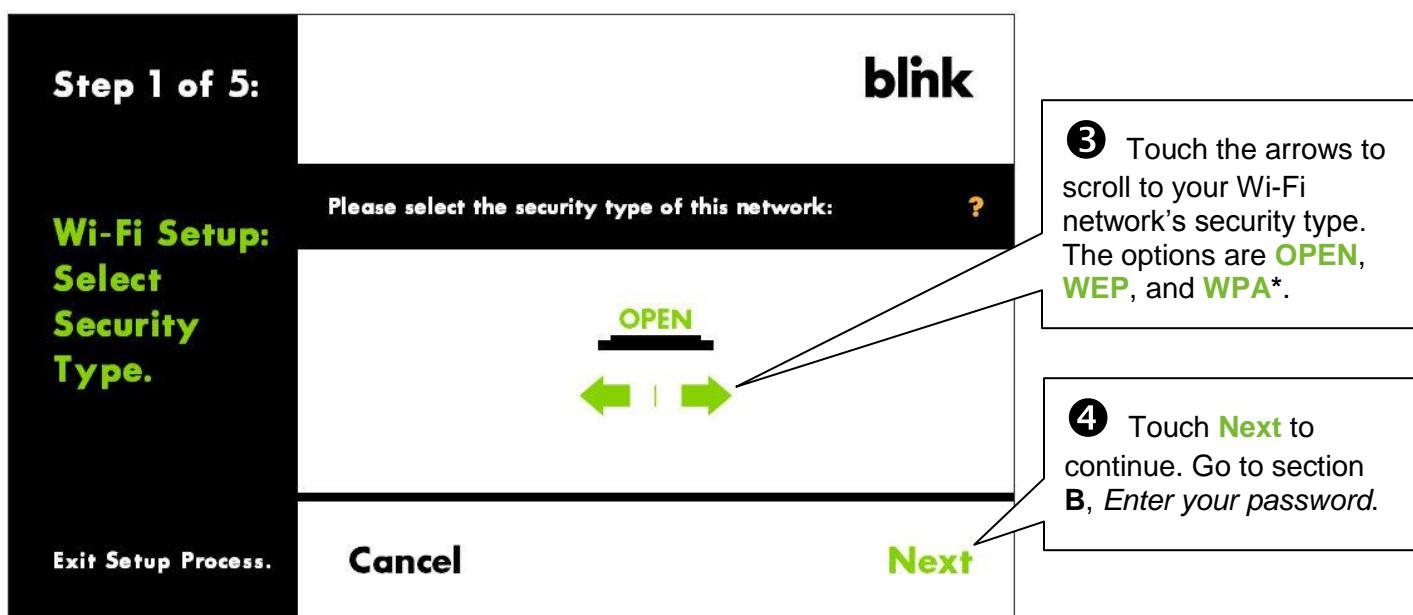
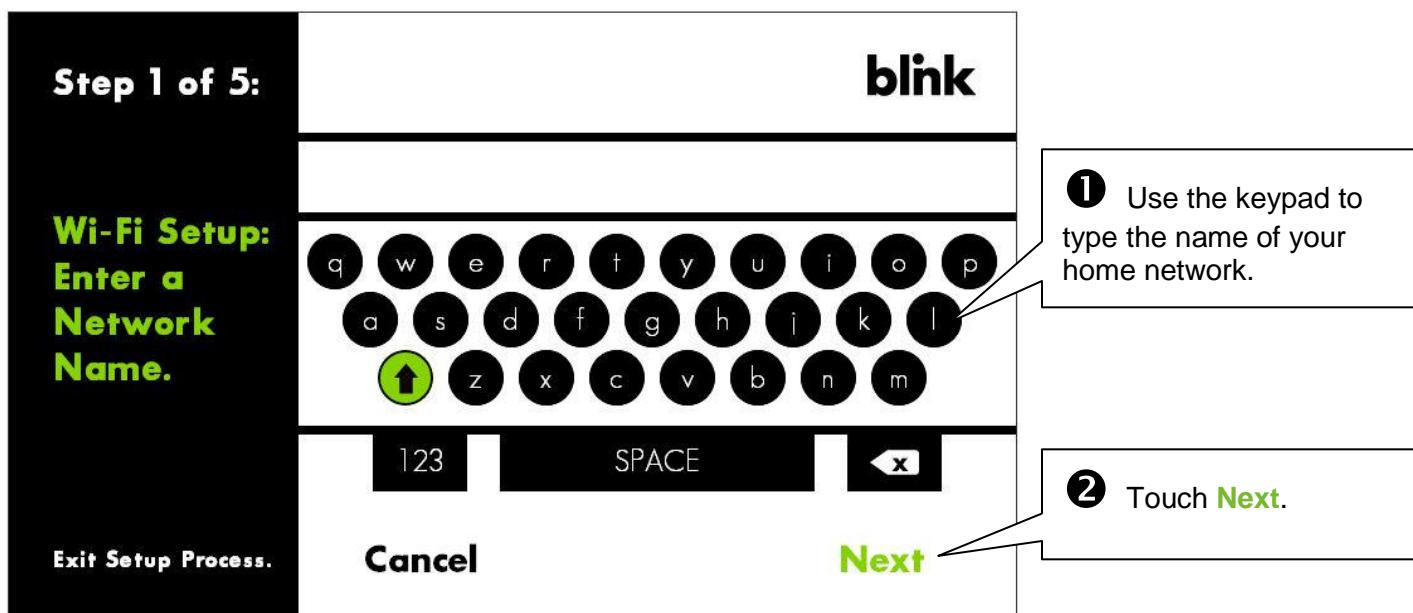
If you cannot resolve the problem yourself, please contact Blink support.

## Step 1 (continued)

### E. Set up Wi-Fi manually

If you selected **Manually connect to Wi-Fi**, a keypad screen appears. Follow the steps below.

**Note:** Check your wireless router's documentation to determine your network's security type.



\* **Note:** If your wireless network has WPA2 encryption, select **WPA**.

## Step 2 — Time and Date Setup

### A. Set the time, date, time zone, and Daylight Savings

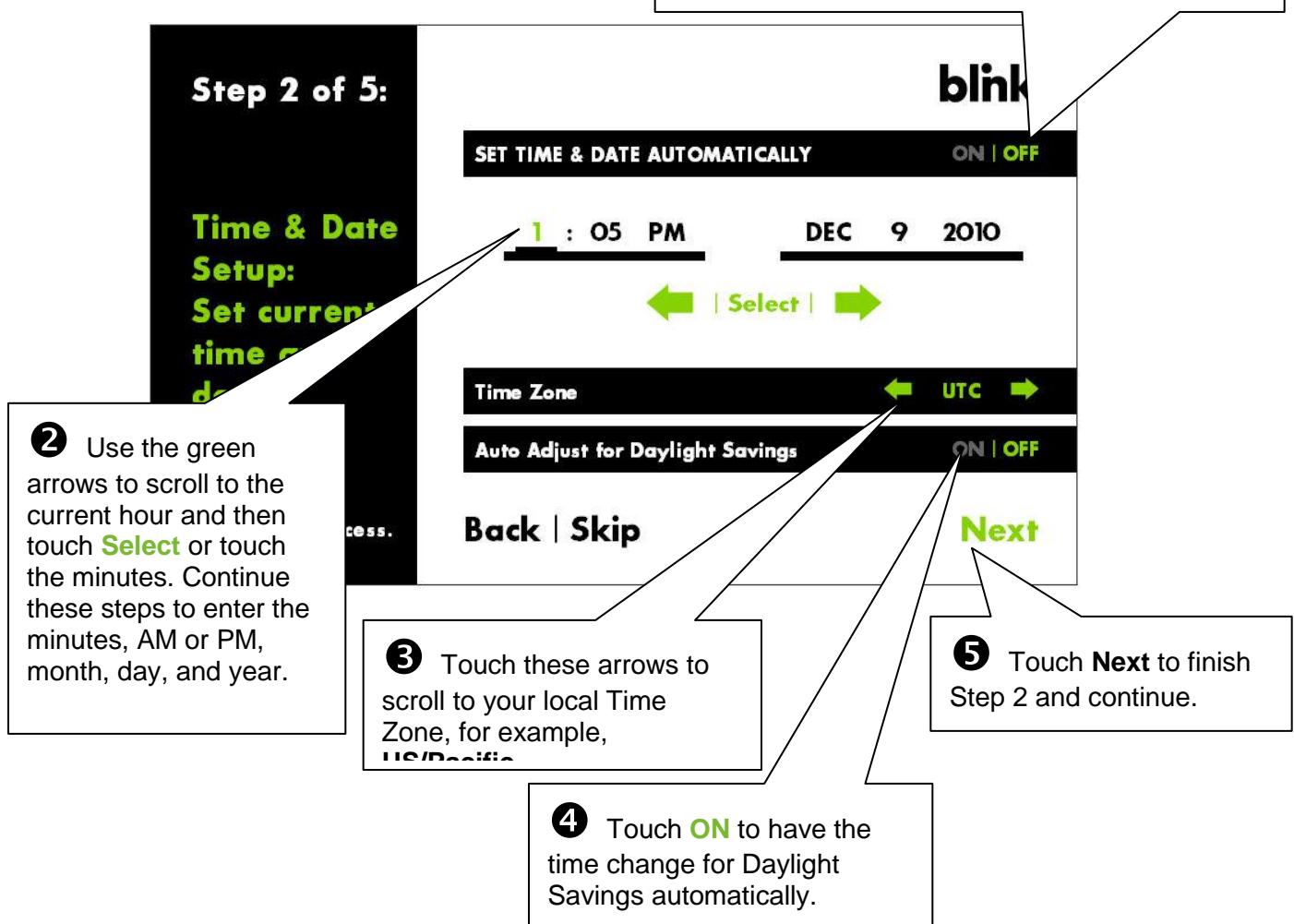
You can choose to either set the time and date on your Blink charging system yourself, or allow the Blink system to set it automatically.



**Note:** If you use the automatic function (turned on by default), you will not be able to change the date and time fields unless you turn the automatic function off.

- 1 To use the automatic feature, touch **ON** and skip to 3, **or**

To turn off the automatic time/date feature and set the time and date yourself, touch **OFF**.



## Step 3 — Electricity Rate Setup

Entering your electric company's billing rates for energy use into your Blink charging system helps you coordinate your vehicle charging times with the least expensive billing rates. It also enables your Blink to estimate the cost of each charging session and provide additional information based on that figure.

Most utilities provide two types of rate plan:

- **Single-rate plan:** Energy costs are the same at all times and are billed at one flat rate
- **Multiple-rate plan:** Energy costs vary by time of day, weekday/weekend, and/or season

Electricity is billed by the kilowatt-hour (kWh); you will enter the cost for one kWh for each rate you enter in your Blink charging system.

 **tip** Before you start this step, we recommend that you get the most recent copy of your electric bill, which should list each billing rate available to you at your residence. Contact your electric company for more information.

**Step 3 of 5:**

**Enter Your Electricity Costs.**

**Exit Setup Process.**

**What kind of billing plan do you have with your electric company?**

**Single Rate Plan**

**Multiple Rate Plan**

**Skip**

**1** Touch:

- **Single Rate Plan** if your utility bill shows one flat billing rate per kWh used. Go to section **A**, *Set up a single-rate plan*.
- **Multiple Rate Plan** if your utility bill shows two or more billing rates per kWh, depending on the Time of Use. Go to section **B**, *Set up a multiple-rate plan*.

**A. Set up a single-rate plan**

**Step 3 of 5:** SINGLE RATE PLAN

Please enter your kWh RATE: ?

\$ 0 . 0 0 0 0 0

← | Select | →

Enter Your Electricity Costs.

Exit Setup Process. Cancel Next

① Using the arrows, enter the rate your utility charges for one kWh, e.g., \$0.06163. Start with the first digit (the dollars place), which is usually zero (0), and then touch **Select** or the next digit. Continue until you have entered every digit.

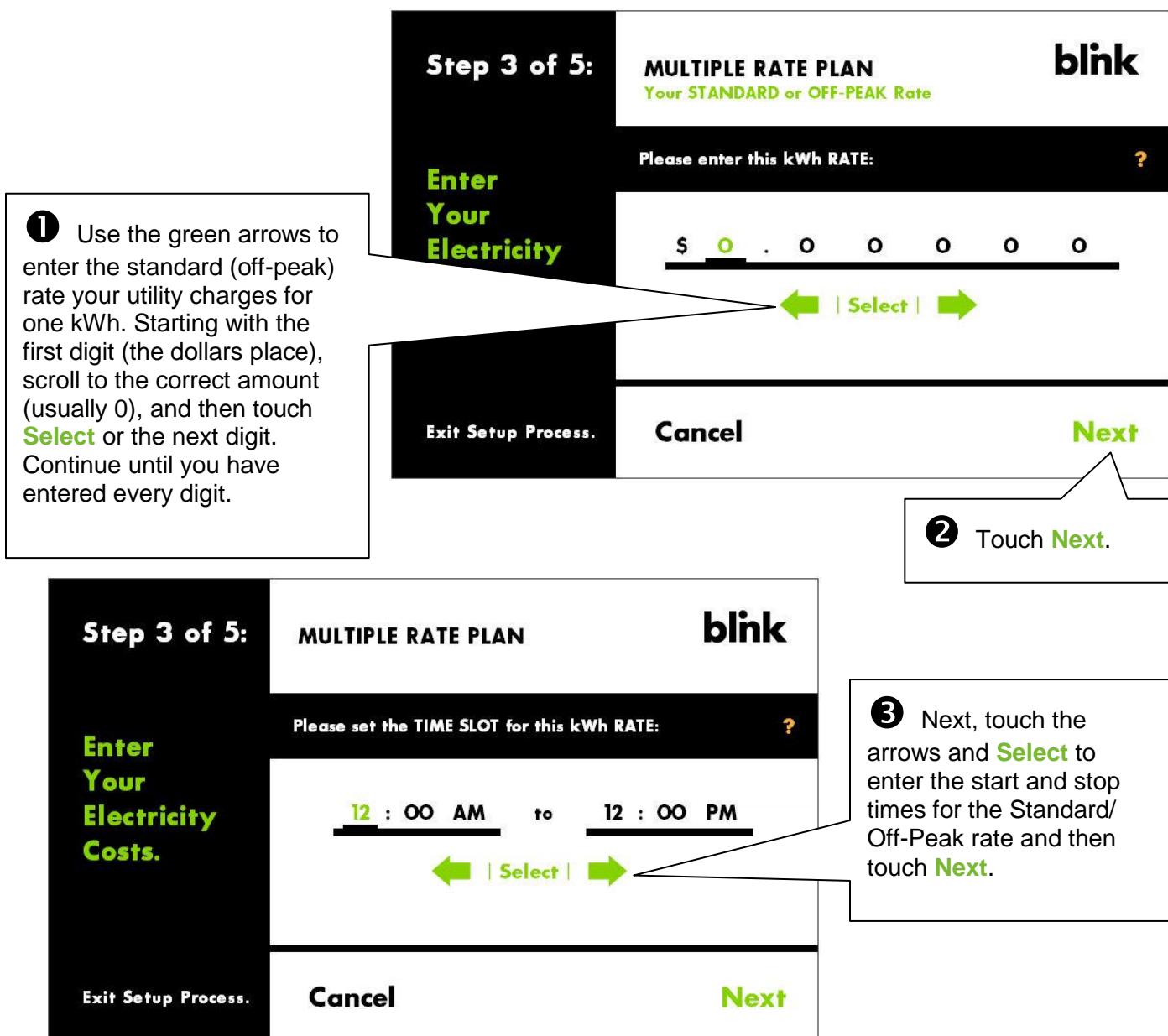
② Touch **Next** and proceed to Step 4.

## Step 3 (continued)

### B. Set up a multiple-rate plan

For a multiple-rate plan, you will need to enter at least two billing rates for your electricity:

- Standard or Off-Peak Rate – this is the lower rate; you will enter this first
- Peak Rate – higher rate, charged at those times when electricity demand is highest



## Step 3 (continued)

**Step 3 of 5:** MULTIPLE RATE PLAN **blink**

Please set the DAYS OF WEEK for this kWh RATE: ?

**WEEK DAYS**

← | →

**Cancel** **Next**

**4** Touch the green arrows to choose whether this rate applies on **WEEK DAYS** or **WEEK ENDS** and then touch **Next**.

**Step 3 of 5:** MULTIPLE RATE PLAN **blink**

Please set the DATES for this kWh RATE: ?

**MAY 1 thru SEPTEMBER 30**

← | Select | →

**Cancel** **Next**

**5** Touch the arrows and **Select** to enter the date range when this rate is in effect and then touch **Next**.

## Step 3 (continued)

**Step 3 of 5:**

**Enter Your Electricity Costs.**

**Exit Setup Process.**

**Would you like to add another kWh RATE?**

**YES**

**NO**

**Cancel** **Next**

**6** Touch **YES** to enter another billing rate, or **NO** to finish entering rates. If you chose **YES**, repeat **1** through **5**.

Note that for multiple-rate plans, you must enter at least two rates. (You may choose to do this later, however.)

**Step 3 of 5:**

**Enter Your Electricity Costs.**

**Exit Setup Process.**

**The kWh RATES you have entered:**

PEAK RATE   \$0.24445	<b>DELETE</b>   <b>EDIT</b>
STANDARD RATE   \$0.05815	<b>DELETE</b>   <b>EDIT</b>
DISCOUNT RATE   \$0.04273	<b>DELETE</b>   <b>EDIT</b>

**ADD ANOTHER**

**Cancel | Skip** **Next**

**7** Review the rates you entered.

- Touch **DELETE** to remove a rate. (You cannot delete the Standard Rate.)
- Touch **EDIT** to change a rate.

**8** To enter a new rate, touch **ADD ANOTHER** and then repeat **1** through **6**.

**9** When you are finished entering rates, touch **Next**.

## Step 4 — Schedule Charging Times

### A. Schedule the desired charging times

Your Blink allows you to create a charging schedule for when you want to charge your vehicle. We recommend a charging schedule if you have a multiple-rate plan, so that you can take advantage of lower electricity rates without having to remember to plug in your car at the right time. For example, if you typically come home from work at 6:00, but your utility has a discount rate that starts at 9:00pm, scheduling a 9:00pm charge start time on weekdays allows you to simply plug in your vehicle when you get home and then forget about it. Your Blink charging system will wait until 9:00 to start charging – saving you money. You can schedule multiple time slots, too – for example, after work on weekdays and during the early morning hours on weekends.



**Note:** If your vehicle can also save a charging schedule, make sure that the schedule in your Blink does not conflict with the vehicle's schedule. Only enter a schedule in your vehicle or your Blink – not both.

You can also choose to have charging start immediately when the connector is plugged into your vehicle. This works well when you have a single-rate electricity billing plan, where there is no cost advantage if you delay charging.

**Step 4 of 5:**  
**Schedule Your Charging Times.**

Please choose how you would like your primary charges to occur:

?	I would like to create a charging schedule.
?	Always charge immediately when I plug in.

**1** Choose whether to create a charging schedule:

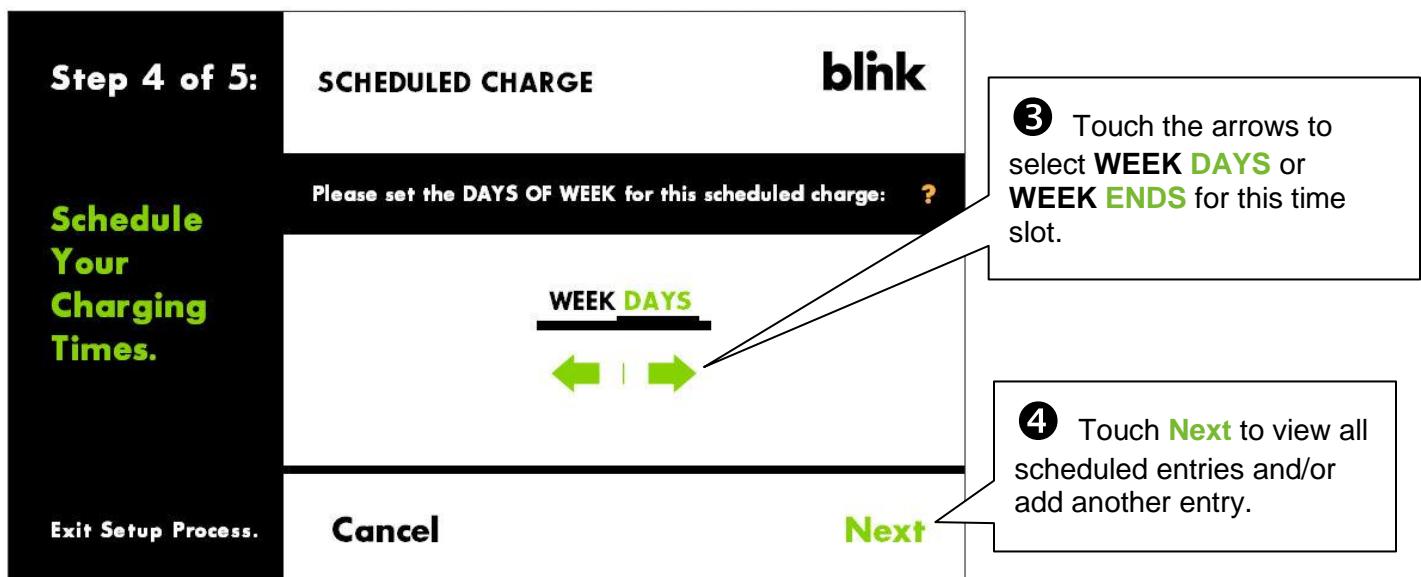
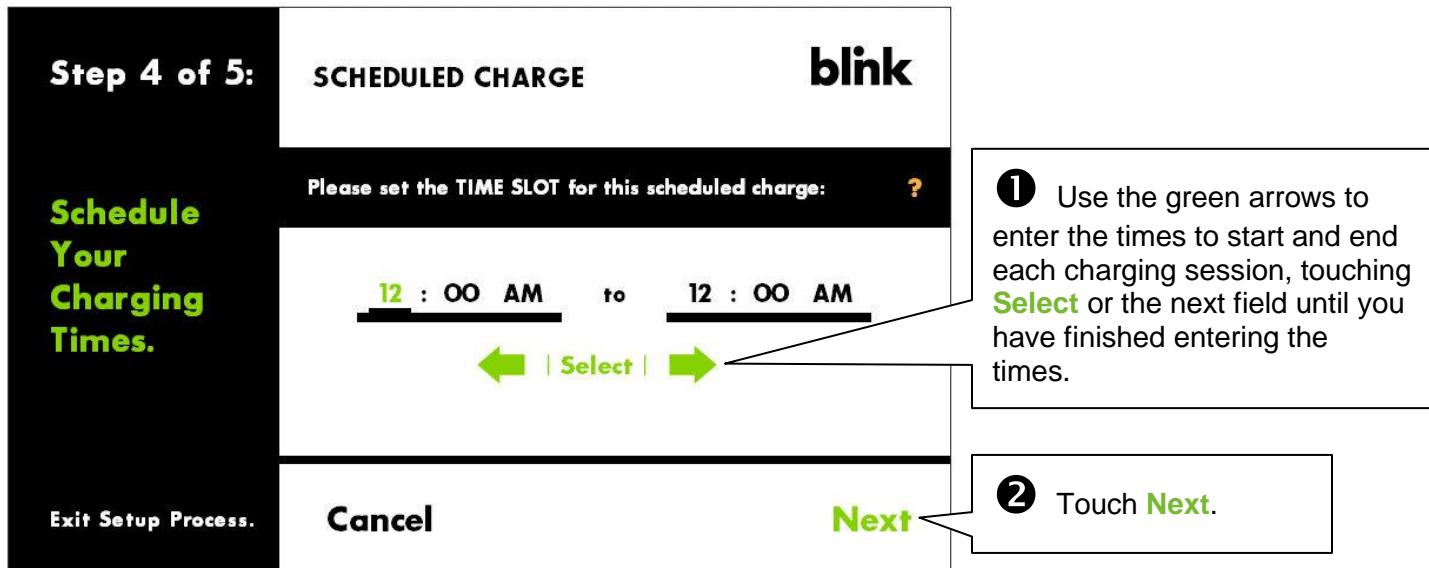
- Touch **I would like to create a charging schedule**; go to section B to continue.  
or
- Touch **Always charge immediately when I plug in**; proceed to Step 5.

**Skip**

## Step 4 (continued)

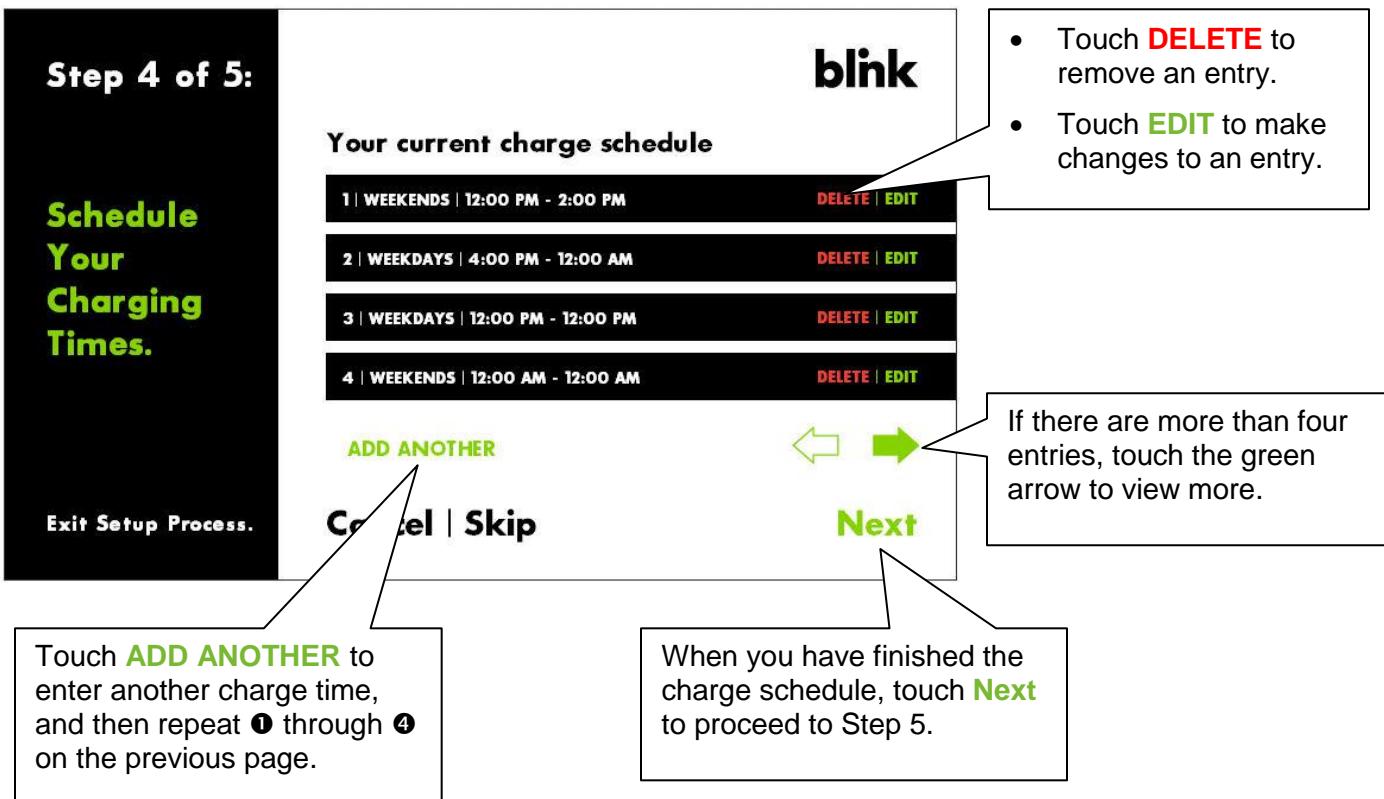
### B. Enter the desired charging times

Enter time slots for when you want your Blink charging system to be available for charging.



## Step 4 (continued)

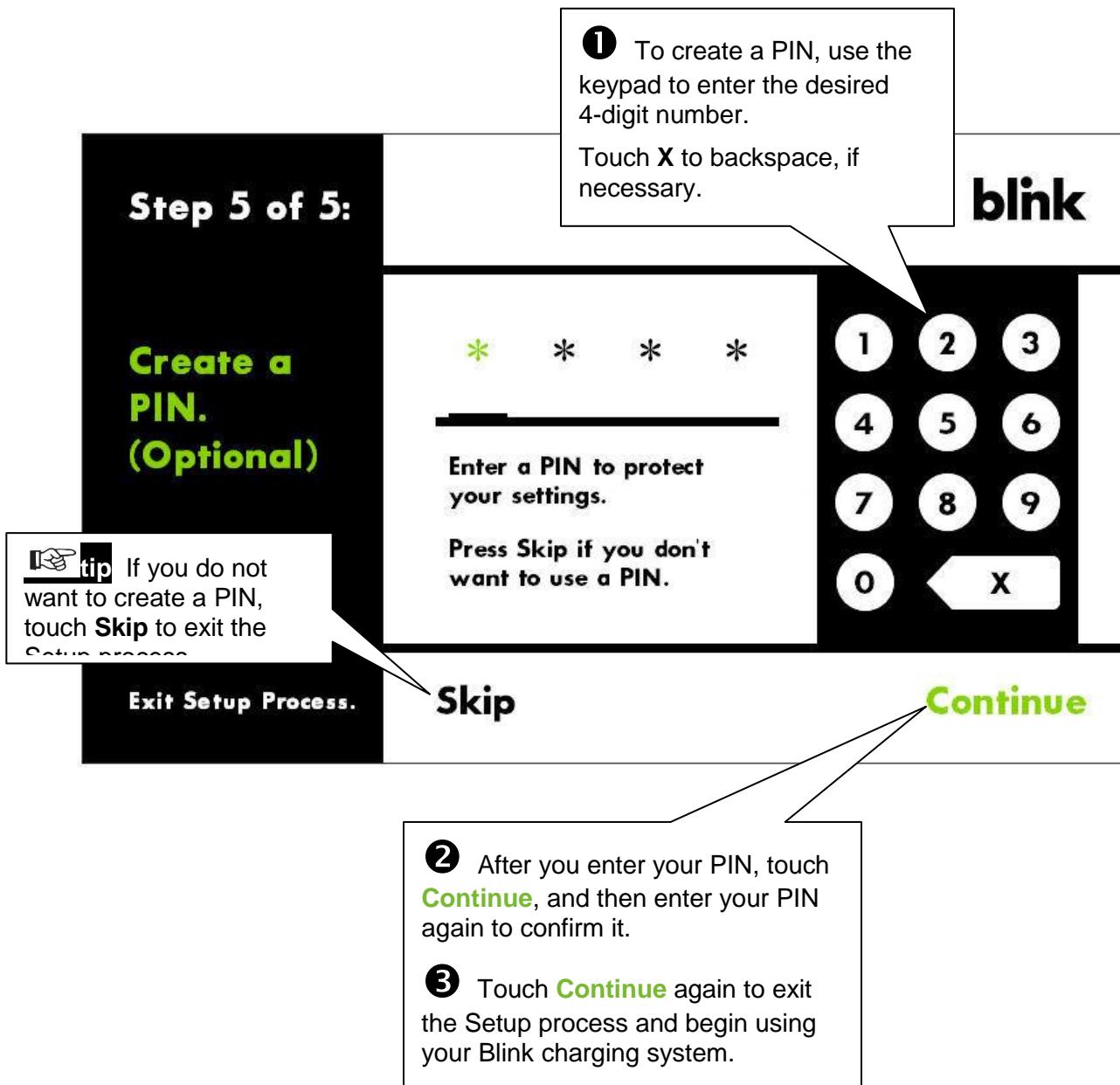
The final Charging Schedule Setup screen lists all of the entries in your current charge schedule.



## Step 5 — Creating a PIN (optional)

You do not have to create a Personal Identification Number (PIN) to operate the Blink charging system. However, we recommend that you create a PIN because it protects your Blink system's settings, such as the charge schedule or billing rates, from unauthorized changes.

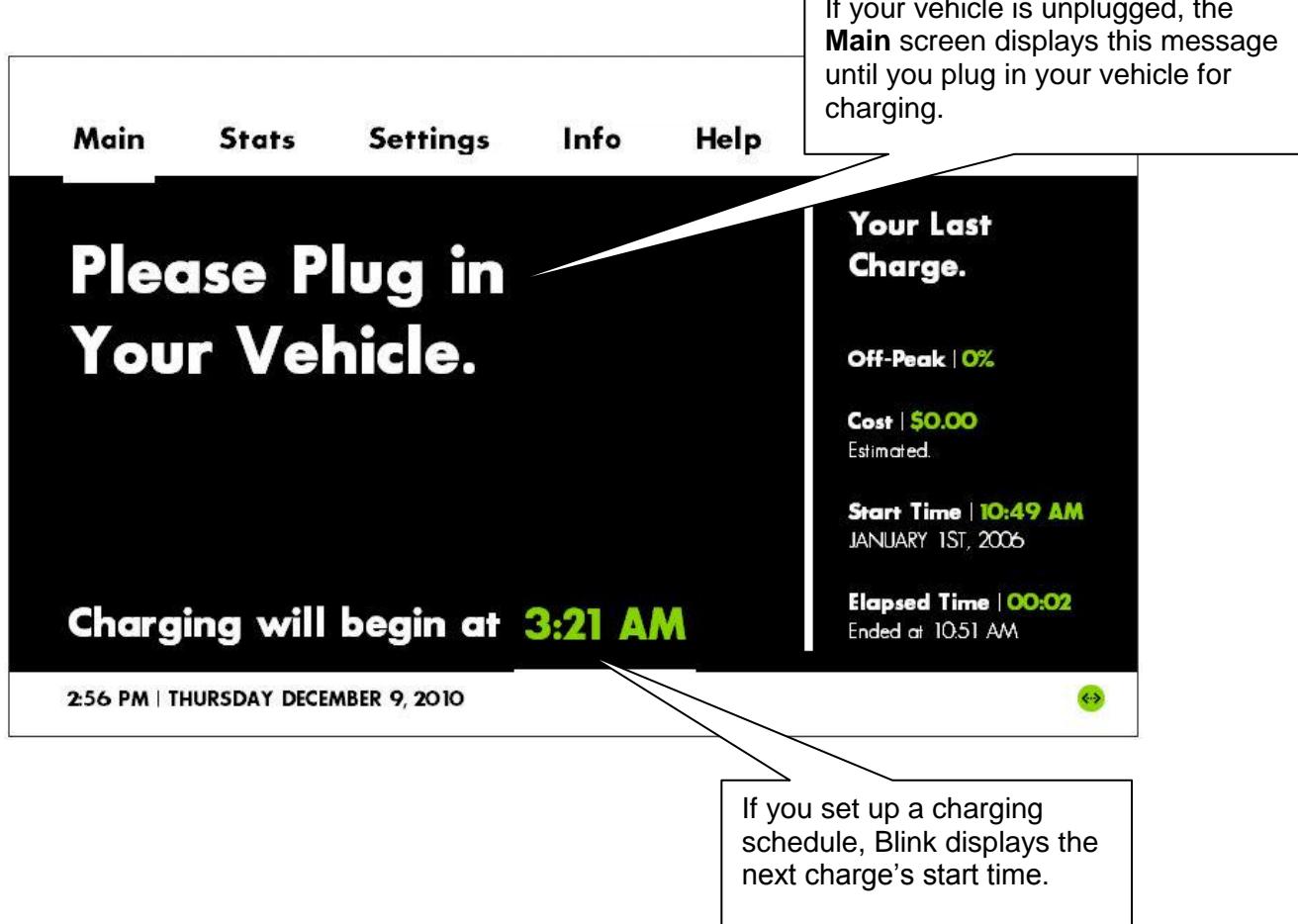
We strongly recommend creating a PIN if small children will be in your home or if your Blink charging system is in an easily accessible location, such as a carport.



## Using Blink

The **Main** screen tells you at a glance about the status of your Blink charging system, including whether it is plugged in, whether it is charging, and how soon charging will begin. The right side of the **Main** screen tells you about your most recent charging session, such as how much of the charge occurred during off-peak billing hours and the estimated cost of the charging session.

### When your vehicle is unplugged



## When your vehicle is plugged in

### Vehicle is waiting to charge

If your vehicle is plugged in, you have a charge schedule set up in your Blink charging system, and charging has not started yet, the following screen appears.



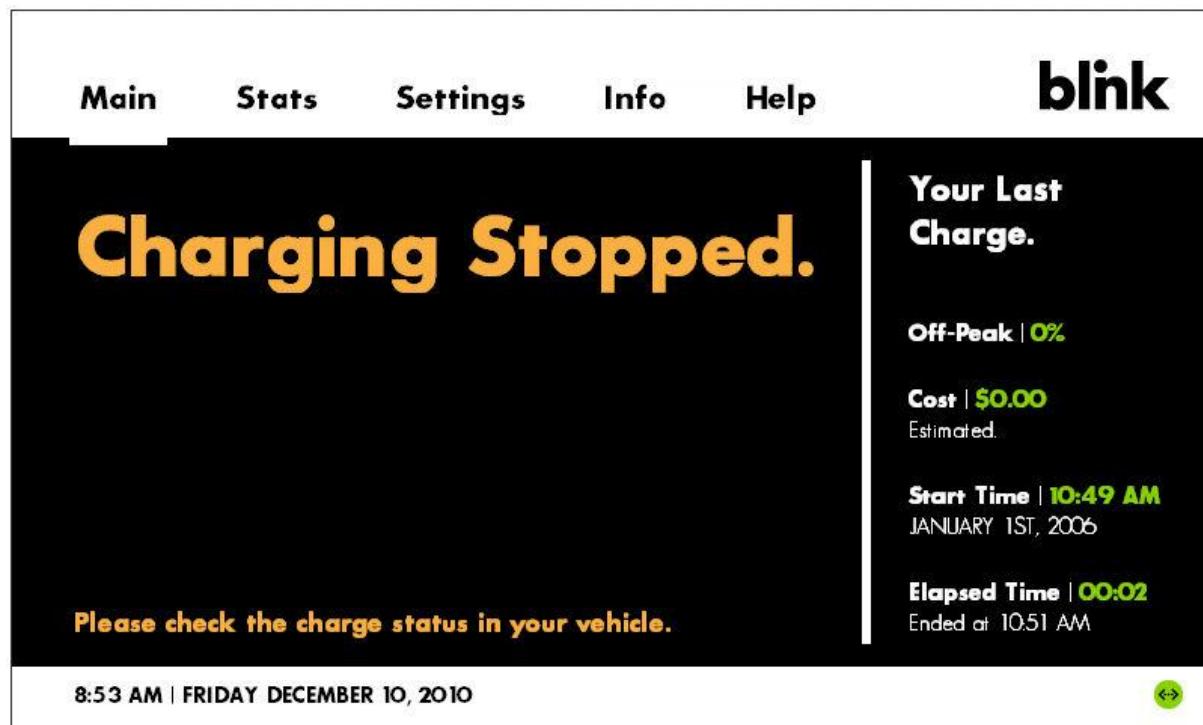
### Vehicle is charging

**Note:** The **Total Elapsed Time** indicates the cumulative time that the vehicle has been drawing current from your Blink. To determine whether your vehicle has a full charge, check its onboard charge status.

## Charging stopped

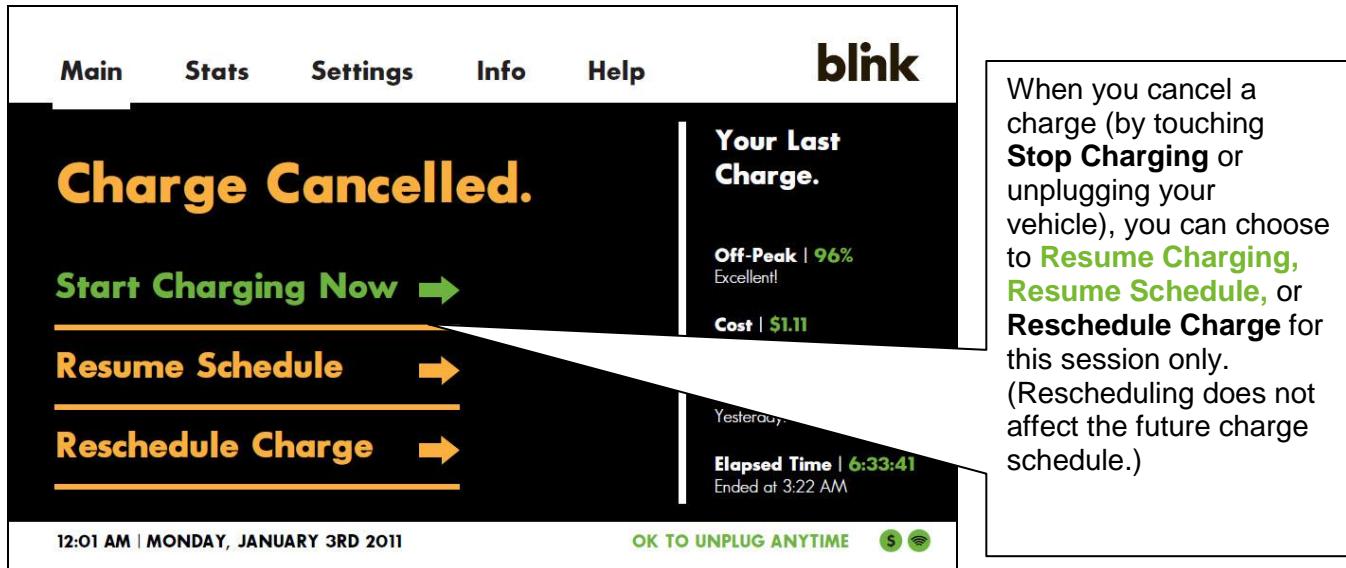
The following screen appears when the end of the scheduled charging time has been reached.

 **Note:** This message does not indicate that your vehicle has a complete charge – only that charging has stopped. Check your vehicle's charge status to ensure that the charge is complete.

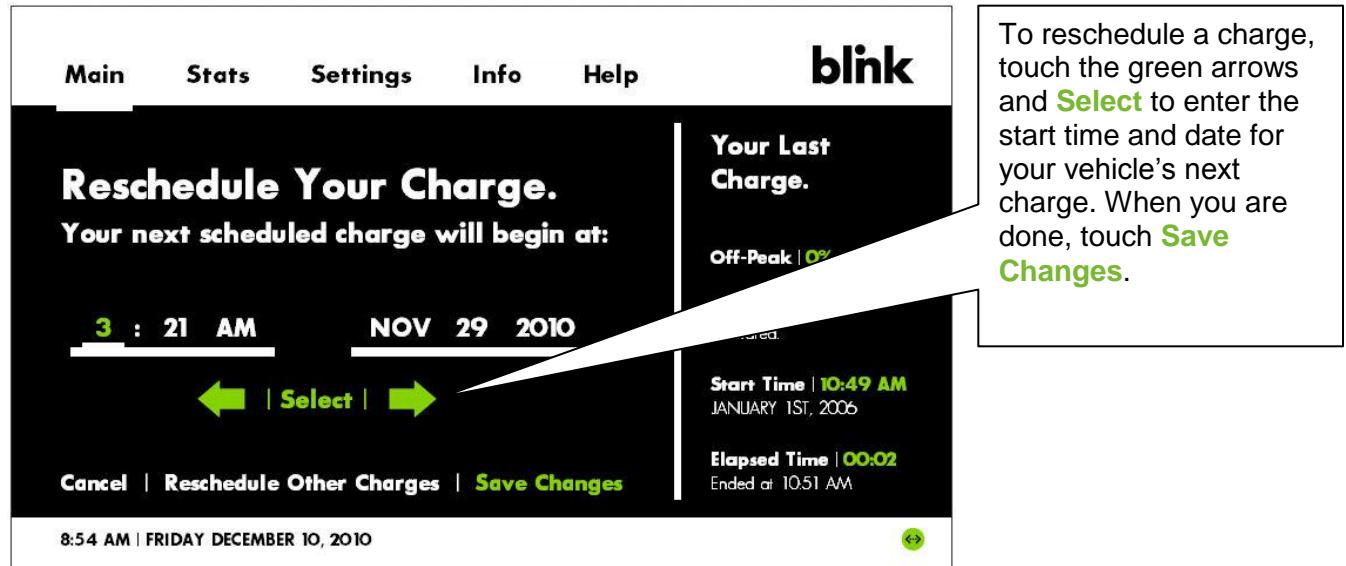


## Charging cancelled

The following screen appears when you cancel a charging session while it is in progress by touching **Stop Charging**. Your options are to restart the session where you left off (**Resume Charging** or **Resume Schedule**) or to schedule this charge to happen at a later time (**Reschedule Charge**). Rescheduling a charge only affects the current charging session – it does not affect your normal charging schedule.



## Rescheduling a charge



## Charging delayed or interrupted

In some areas, your electric company may delay or interrupt charging, generally due to high demand for electricity. This can happen if you give your utility permission to balance their electrical load via “demand response” functions.

Both of these screens indicate when charging will resume.

**Main Stats Settings Info Help**

**blink**

# Charging Delayed.

Charge will resume at 12:42 AM

12:01 AM | MONDAY, JANUARY 3RD 2011

OK TO UNPLUG ANYTIME

**Your Last Charge.**

Off-Peak | 96% Excellent!

Cost | \$1.11 Estimated.

Start Time | 9:05 pm Yesterday.

Elapsed Time | 6:33:41 Ended at 3:22 AM

This screen indicates that your Blink charging system was waiting to start a scheduled charge.

**Main Stats Settings Info Help**

**blink**

# Charging Interrupted.

Charge interrupted by electric utility.  
Charge will resume at 9:02 AM

8:52 AM | FRIDAY DECEMBER 10, 2010

**Your Last Charge.**

Off-Peak | 0%

Cost | \$0.00 Estimated.

Start Time | 10:49 AM JANUARY 1ST, 2006

Elapsed Time | 00:02 Ended at 10:51 AM

This screen indicates that your Blink charging system was charging your vehicle when your local electric utility interrupted the charging session due to high electricity demand.

## View your charging history

Your Blink charging system tracks every charging session, and can provide you with detailed information about the current month's and the previous month's usage, including estimated costs, how often and how long you charged your vehicle, estimated CO<sub>2</sub> you saved with your vehicle and Blink charging system, and more.



**Note:** You must enter your electric company's billing rates at your residence in order for Blink to calculate Charging Cost, Cost Per Charge, Price Per kWh, or % Off-Peak.

The screenshot shows the Blink mobile application interface. At the top, there is a navigation bar with five tabs: Main, Stats (which is highlighted), Settings, Info, and Help. To the right of the tabs is the Blink logo. Below the navigation bar, the text "DEC, 2010" is displayed. The main content area contains six data points arranged in two columns:

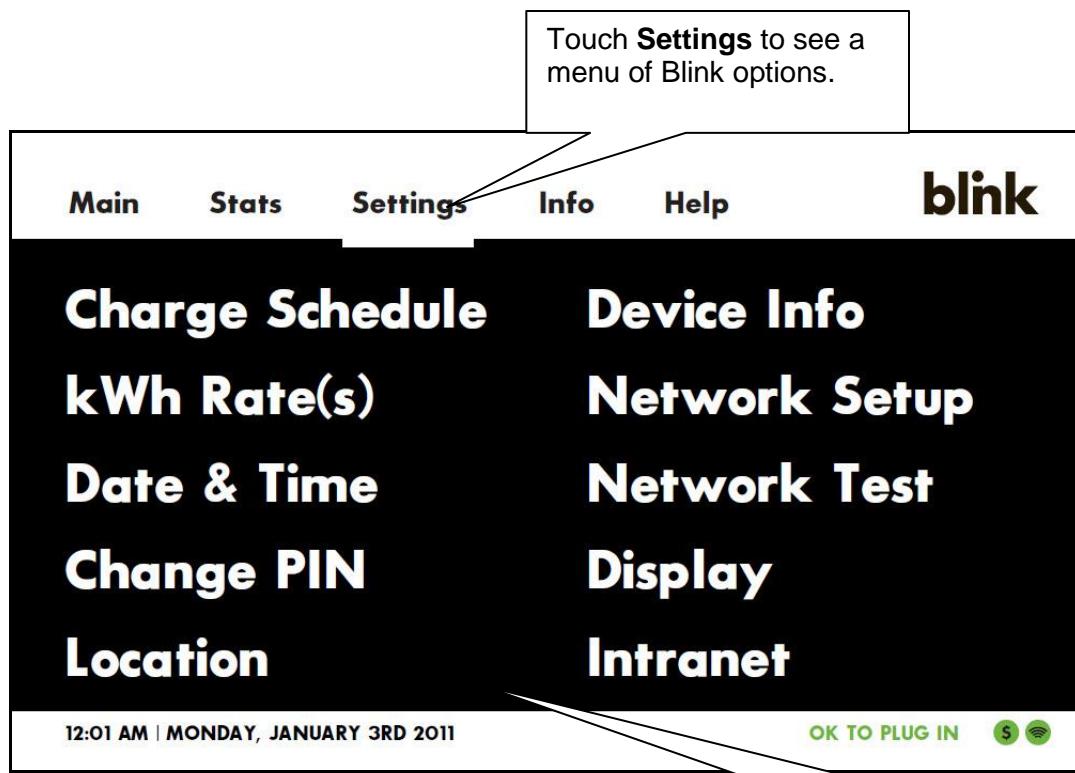
<b>Charging Cost   \$0</b> Estimated	<b>CO2 Saved   0.03 lbs.</b> Estimated
<b>Cost Per Charge   \$0</b> Estimated	<b>Gas Equivalent   0.01 Gal</b> Estimated
<b>Avg. Duration   126 hrs</b> Per Charge	<b>Price Per kWh   \$0</b> When You Charged
<b>Charging Events   3</b> This Month	<b>Energy (kWh)   0.04</b> 0% Off Peak

At the bottom left of the main content area, the text "Previous Month" is displayed. At the very bottom of the screen, the time "2:58 PM | THURS" and date "DECEMBER 9, 2010" are shown, along with a small circular icon containing a double-headed arrow.

- Touch **Previous Month** to display last month's information.
- Touch **Current Month** to return to this month's information.

# Change your Blink settings

Once your Blink setup is complete, all changes are made from the **Settings** menu.

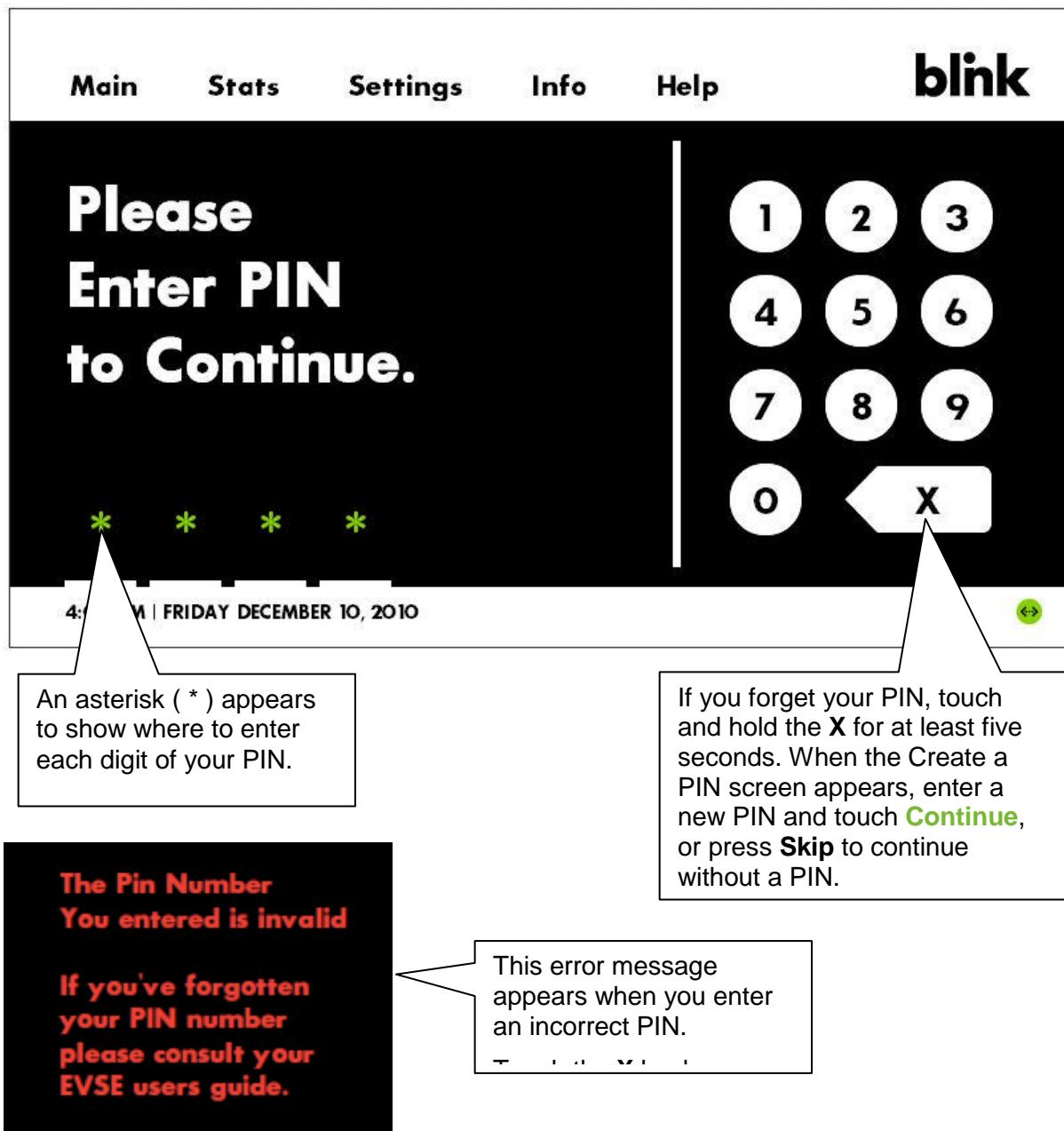


Touch **Settings** to see a menu of Blink options.

Touch an option on the **Settings** menu to change settings or to view the Blink Device Information.

## Enter your Blink PIN

If you created a PIN during setup, your Blink will prompt you to enter it each time you try to change one of the saved settings, including the charge schedule, billing rates, time and date, and network setup.



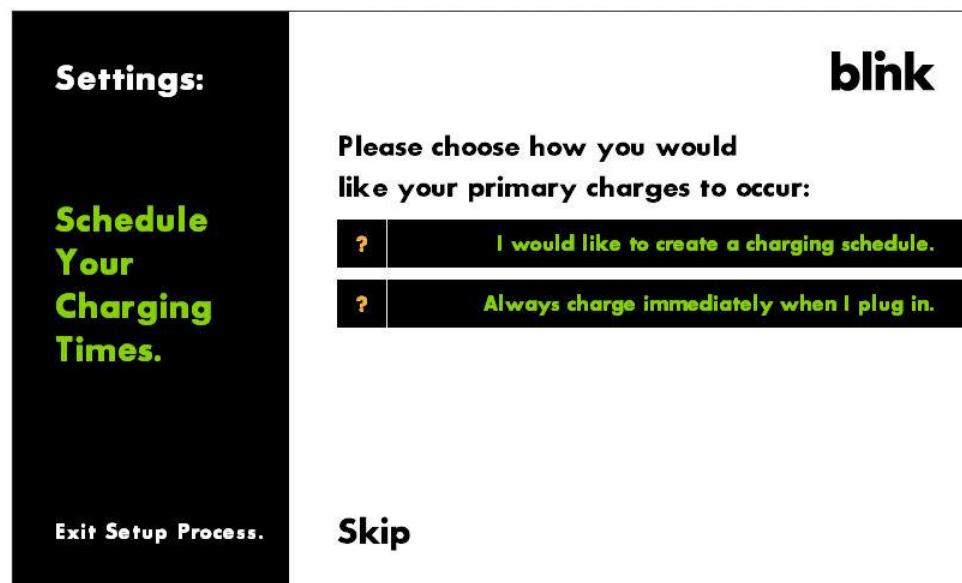
## Change your location

Touch the Location option on the Settings menu to display the available locations.



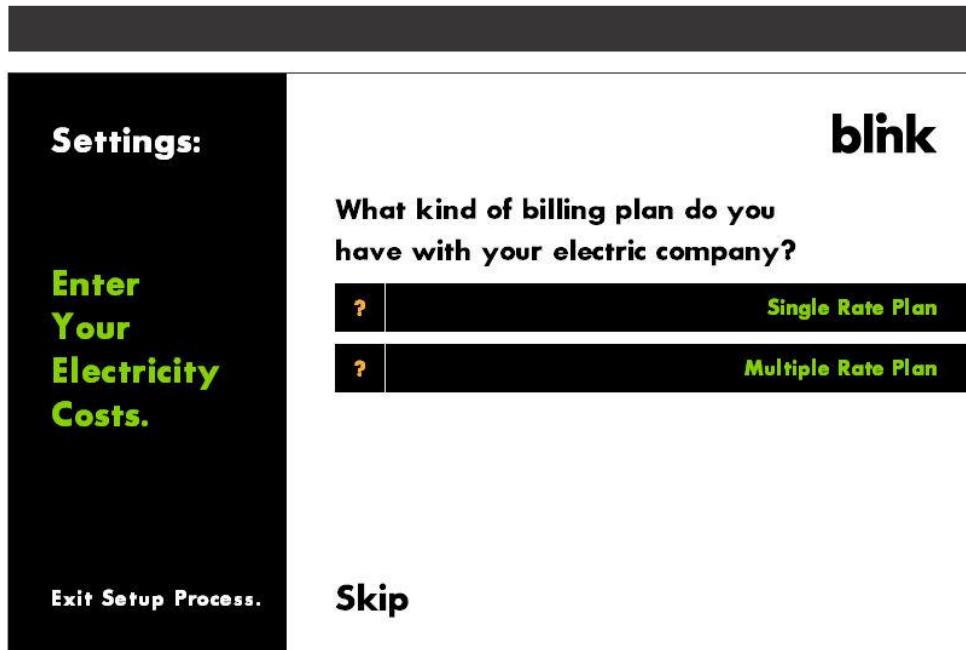
## Change your charge schedule

Touch the **Charge Schedule** option on the **Settings** menu to display the following screen. This update process is identical to the original setup process. See Step 4 for more information.



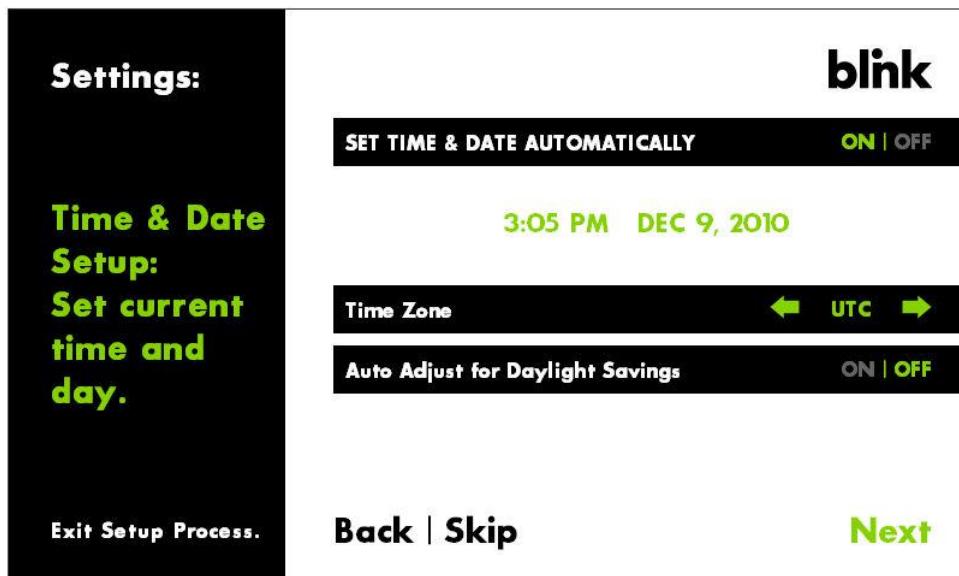
## Change your electricity billing rates

Touch the **kWh Rate(s)** option on the **Settings** menu to display the following screen. This update process is identical to the original setup process. See Step 3 for more information.



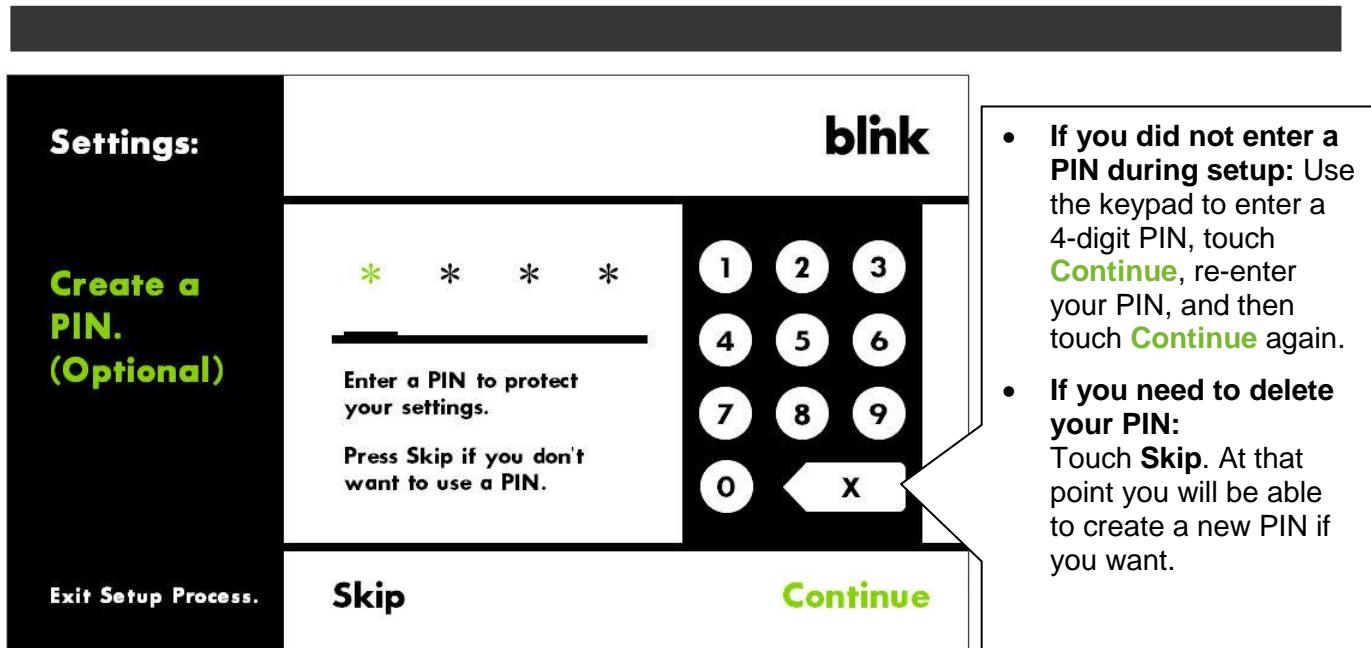
## Change the date and time settings

Touch the **Date & Time** option on the Settings menu to display the following screen. This update process is identical to the original setup process. See Step 2 for more information.



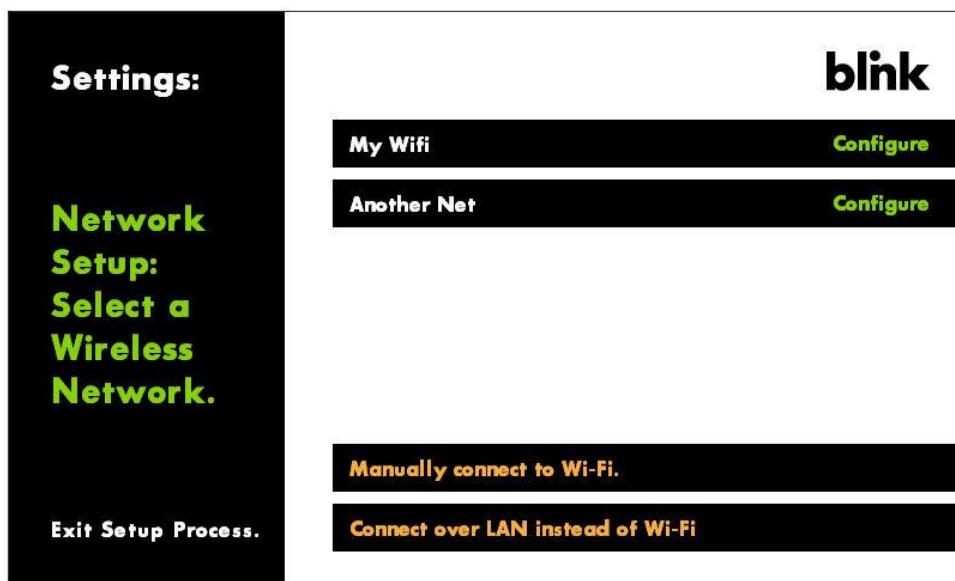
## Change your Blink PIN

Touch the **Change PIN** option on the **Settings** menu to display the following screen.



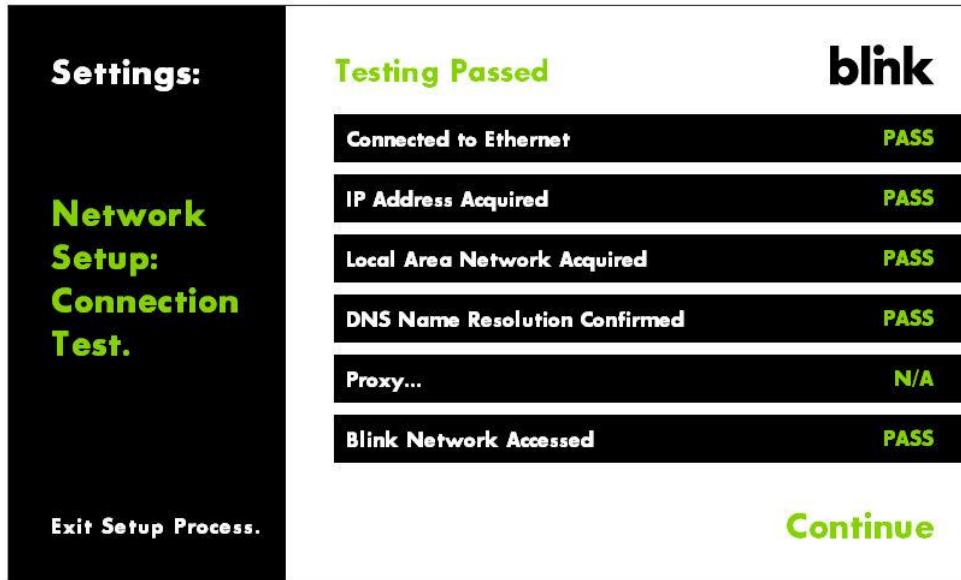
## Update your network setup

Touch the **Network Setup** option on the **Settings** menu to display the following screen. This update process is identical to the original setup process. See Step 1 for more information.



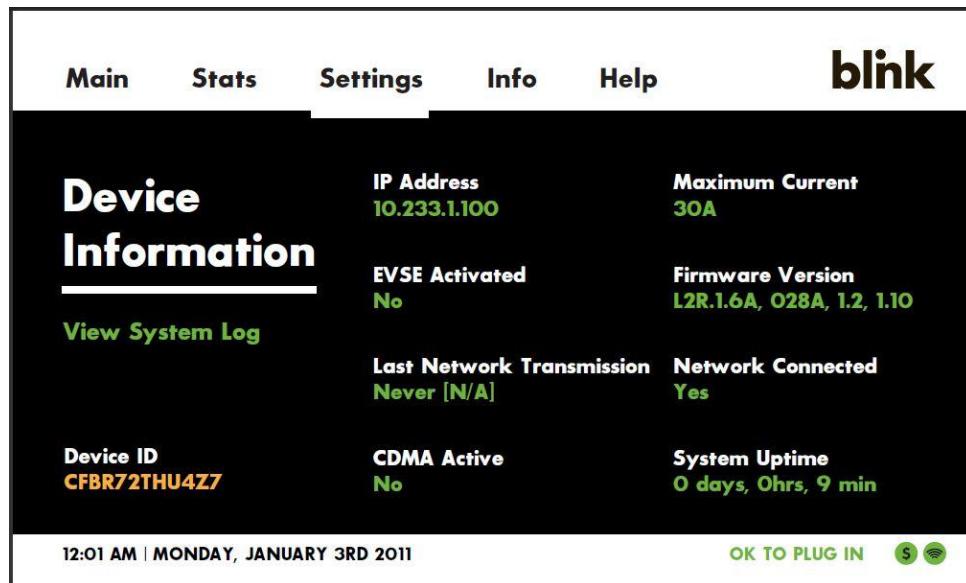
## Test your network connection

Touch the **Network Test** option on the **Settings** menu to display the following screen.



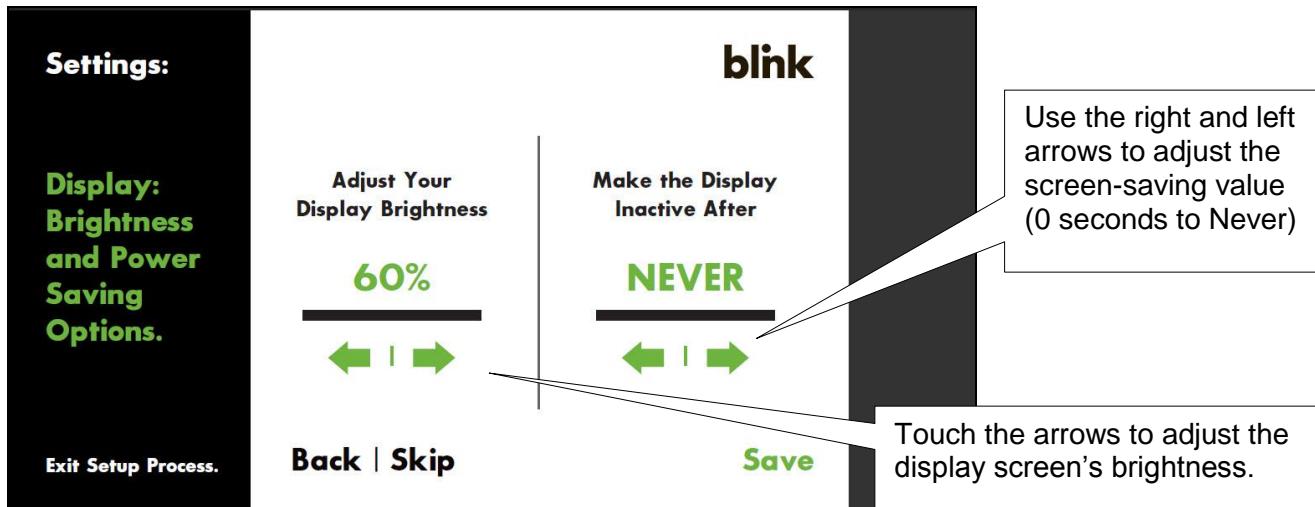
## View information about your Blink charging system

Touch the **Device Info** option on the **Settings** menu to display the following screen. This information is helpful for troubleshooting your Blink device.



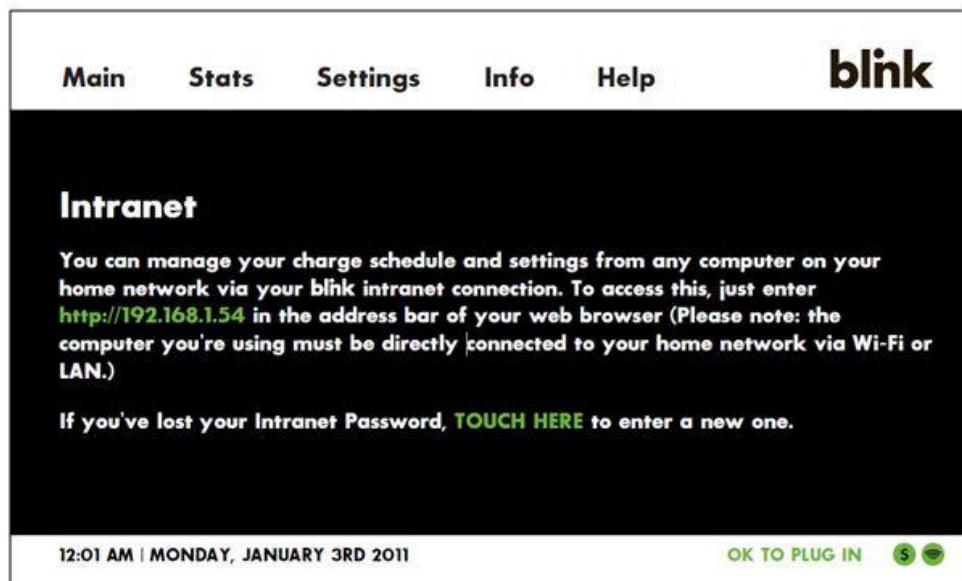
## Adjust your display view

Touch the **Display** option on the **Settings** menu to modify the display screen's brightness and power-saving options.



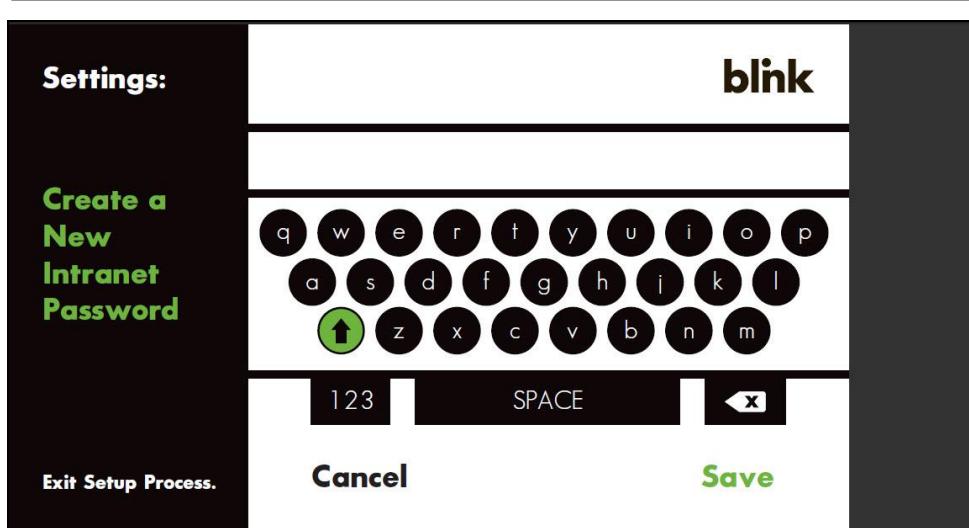
## View information about the Blink intranet

Touch the **Intranet** option on the **Settings** menu to display the following screen. This screen provides information about connecting to the Blink intranet from your home network. The default intranet password is "blinkadmin".



## Creating a new intranet password

This screen appears to allow you to create a new password.



Use the standard keys. The up arrow changes the character case.

# Using the intranet

Your Blink unit's communications provide system flexibility and convenience. Via the Blink Network, you are able to get automatic uploads and access the onboard features right from the comfort of your home!



**Note:** Your home must already be set up for Internet connection with either a wireless network or an available Ethernet port on a modem or router and an Ethernet cable that reaches from that port to the charging system.

The default password is "blinkadmin".

If you forgot your password, touch here and this screen displays:

**Forgot Your Password?**

If you have forgotten your EVSE Intranet's password, please follow these steps to create a new password:

- Please go to your EVSE home charger touchscreen
- From the EVSE home chargers' touchscreen touch the "Settings" menu option to access the settings screen
- Touch the text entitled, "Intranet" to access the intranet password reset screen
- Follow the onscreen prompts to reset your EVSE home charger intranet password

For complete help information, please consult the user manual that came with your EVSE home charger information packet.

A complete version of the manual and help tutorials is also available online at: [www.blinknetwork.com/help](http://www.blinknetwork.com/help)

Follow the screen instructions.

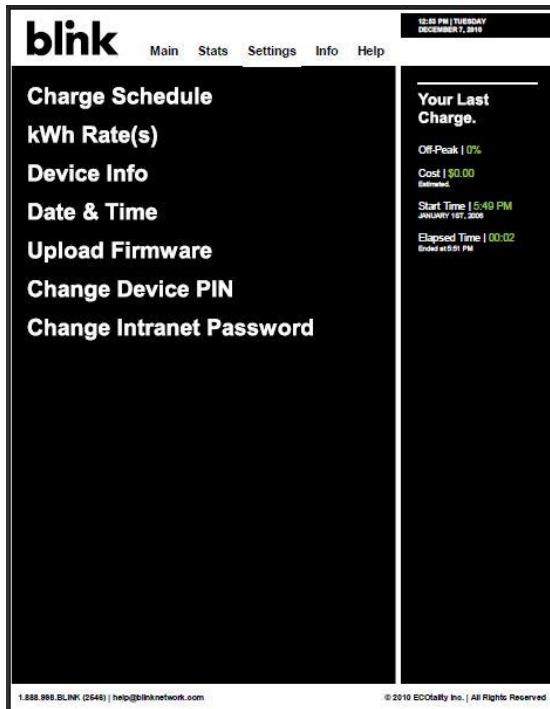
Now that you are logged in, you can perform many of the standard functions described in the User Manual.



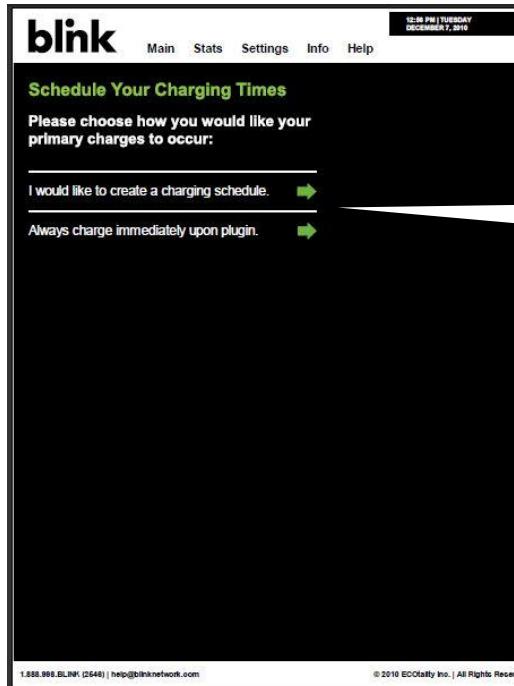
Touch **Stats** to view your charging history:



Touch **Settings** to set or change your Blink unit's configuration. Or, you select the options from the **Main** screen. The displayed screens are slightly different, but the operations are the same as those performed on the initial setup of your Blink charging system.

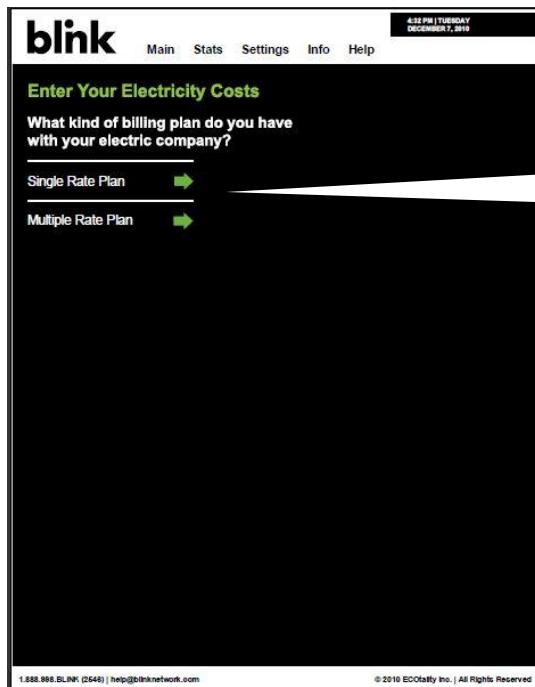


## Charge Schedule



Select whether to set a charge schedule. See the instructions on page 26

## kWh Rate(s)



Select the appropriate rate plan and enter your electricity costs. See the instructions on page 21.

## Device Info

The screenshot shows the 'Device Information' section of the blink web interface. It displays various parameters:

- Device ID: GGLUMHGGGQRI
- Maximum Current: 30A
- Last Network Transmission: 3:11 PM MAY 13 2011
- Firmware Version: L2R.1.6A\_030A\_1.2\_1.10
- EVSE Activated: Yes
- Network Connected: Yes
- System Uptime: 0 days, 1 hours, 36 minutes
- IP Address: 192.168.1.216

A callout box points to the 'Device Info' link in the top navigation bar.

**Touch the **Device Info** option and this screen is displayed with your Blink unit's information. This will be helpful in troubleshooting your Blink device.**

## Date & Time

The screenshot shows the 'Time & Date Setup' section of the blink web interface. It includes the following settings:

- Set Time & Date Automatically: **On** (radio button selected)
- Time Zone: UTC
- Auto Adjust for Daylight Savings: On | Off

A callout box points to the 'Time & Date Setup' link in the top navigation bar.

**Set the time and date on your Blink charging system or allow the Blink system to set it automatically. This is the default setting.**

**See page 19 for directions.**

## Project Overview

Click Help to view current EV Project information.

The screenshot shows the 'Main' tab selected in the top navigation bar. The main content area features the 'THE EV Project' logo and a map of the United States where green dots represent project cities. A black box with the text 'CLICK TO ZOOM' is overlaid on the map. Below the map, the U.S. Department of Energy logo is visible. To the right, a 'PROJECT OVERVIEW' section lists several key statistics:

- Approximately 14,000 Level 2 (240VAC) chargers
- Approximately 400 DC Fast Charger ports
- 8,300 grid-connected vehicles including Nissan LEAF and Chevrolet Volt
- 60+ project partners
- 1,200 jobs created or retained by 2012
- 18 major cities and metropolitan areas in 6 states and the District of Columbia

The website address [www.theevproject.com](http://www.theevproject.com) is also displayed. At the bottom, the date and time are shown as '12:01 AM | MONDAY, JANUARY 3RD 2011' and there are 'OK TO PLUG IN' status indicators.

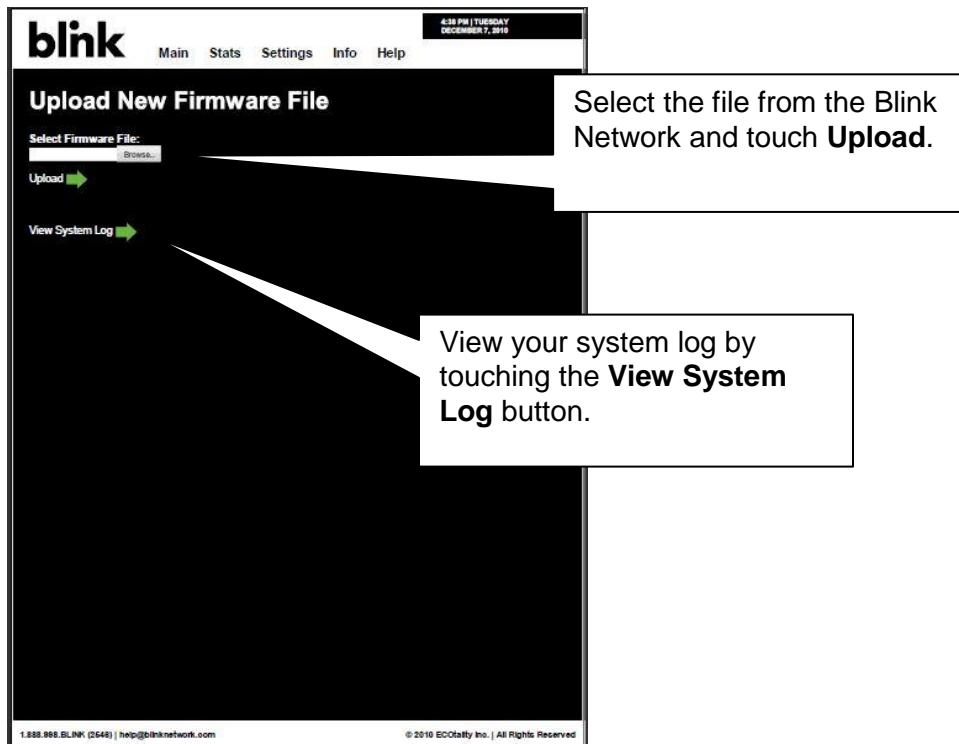
Press "Click to Zoom" to display a detailed image of the project cities.

The screenshot shows the 'Main' tab selected in the top navigation bar. The main content area displays a detailed map of the United States with green dots marking specific project cities. Labels for these cities are provided on the left and right sides of the map. At the bottom, the U.S. Department of Energy logo is visible. In the bottom right corner, there is a 'Back' button. The date and time at the bottom are '4:15 PM | FRIDAY, JULY 29TH 2011' and there are 'OK TO PLUG IN' status indicators.

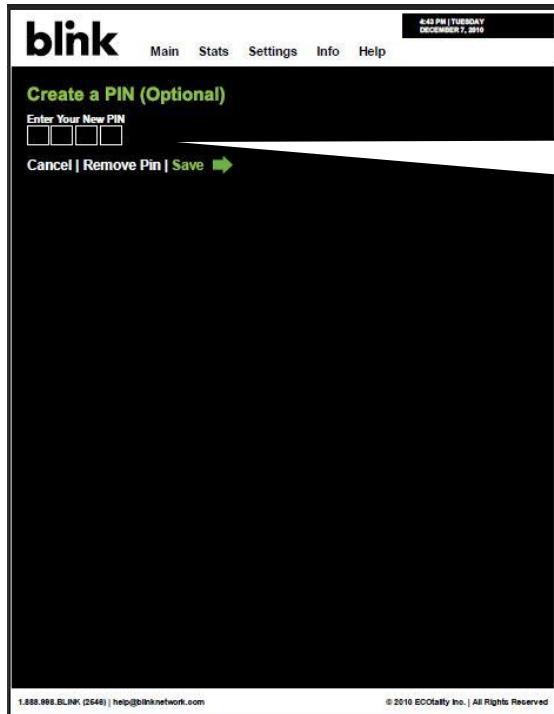
West Coast Cities	Midwest and East Coast Cities
Seattle, WA Portland, OR Eugene, OR Corvallis, OR Salem, OR San Francisco, CA Los Angeles, CA San Diego, CA Phoenix, AZ Tucson, AZ	Washington, D.C. Memphis, TN Nashville, TN Knoxville, TN Chattanooga, TN Dallas, TX Fort Worth, TX Houston, TX

## Upload Firmware

Click **Upload Firmware** to upload the latest Blink software for your charging system.

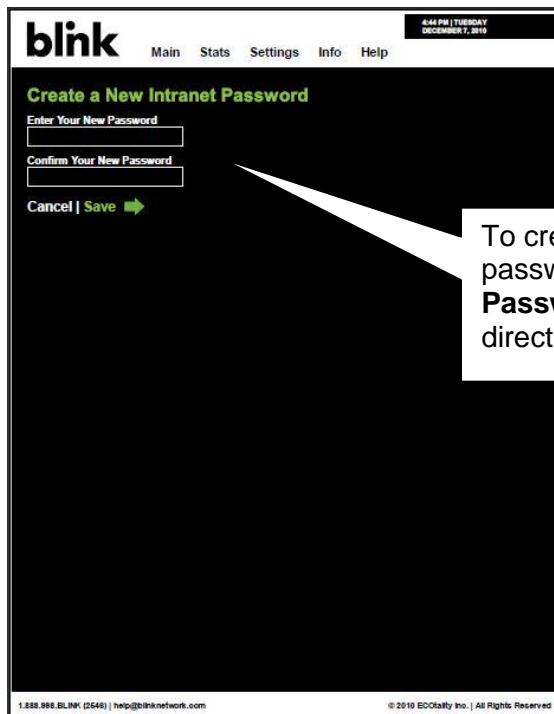


## Change Device PIN



To create or change your PIN, touch **Change Device PIN**. Enter a 4-digit Personal Identification Number. See page 28 for directions.

## Change intranet Password



To create or change your intranet password, touch **Change Intranet Password**. See page 14 for directions.

# Learn about the EV charging network

Touch **Info** to learn current facts about the expanding national EV charging network.

**Main Stats Settings Info Help**

**blink**

**THE EV Project** The largest deployment of electric vehicles and charge infrastructure in history.

**PROJECT OVERVIEW**

- Approximately 14,000 Level 2 (240VAC) chargers
- Approximately 400 DC fast
- 8,300 grid-connected vehicles including Nissan LEAF and Chevrolet Volt
- 60+ project partners
- 1,200 jobs created or retained by 2012
- 18 major cities and metropolitan areas in 6 states and the District of Columbia

[www.theevproject.com](http://www.theevproject.com)

12:01 AM | MONDAY, JANUARY 3RD 2011

OK TO PLUG IN \$

Touch here for more information about the national EV charging network.

**Main Stats Settings Info Help**

**blink**

Seattle, WA  
Portland, OR  
Eugene, OR  
Corvallis, OR  
Salem, OR  
San Francisco, CA  
Los Angeles, CA  
San Diego, CA  
Phoenix, AZ  
Tucson, AZ  
Washington, D.C.  
Dallas, TX  
Fort Worth, TX  
Houston, TX  
Memphis, TN  
Nashville, TN  
Knoxville, TN  
Chattanooga, TN

**Back**

4:15 PM | FRIDAY, JULY 29TH 2011

OK TO PLUG IN \$

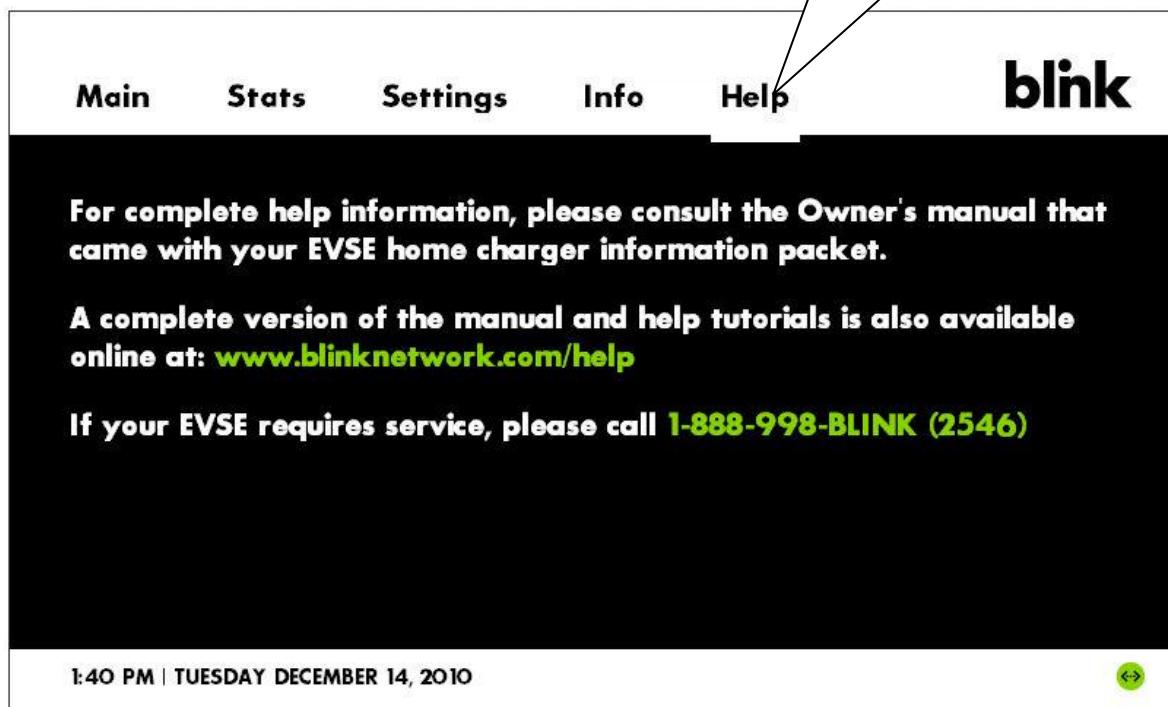
Touch **Back** to return to the first **Info** screen.

## Get help with using your Blink

Your Blink charging system provides on-screen help to assist you. There are two types of Blink help:

- Clicking the question marks that appear on certain screens; this pops up helpful information about that screen or screen item
- Touching **Help** on the **Main** screen

Touch **Help** at any time for links to the Blink network and further assistance.



# Power issues

## Power outages

Your Blink charging system is designed to handle power outages. When power resumes, your Blink charging system automatically powers back up, and then displays the calibration screen described on page 5.

- Touch the screen anywhere to begin calibration.
- If the screen is not touched within two minutes, your Blink unit skips the calibration step and displays the Welcome screen below.

The **Welcome to Blink** screen appears.

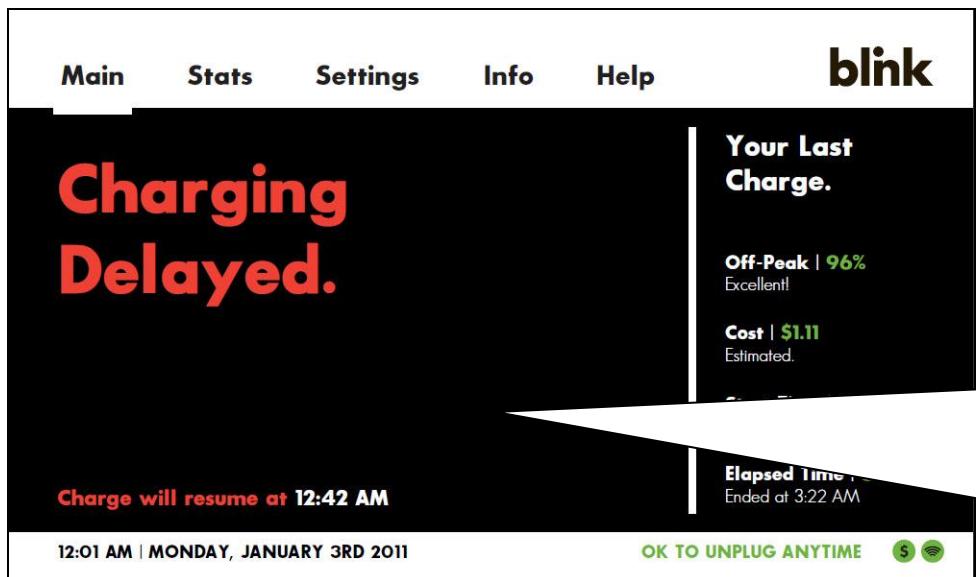


**1** Touch **Charge Now** to return to the Main screen and resume normal use. Otherwise, your Blink charging system will wait 15 minutes and then will go to the Main screen automatically.

The following screens indicate that a power outage occurred and charging has stopped.

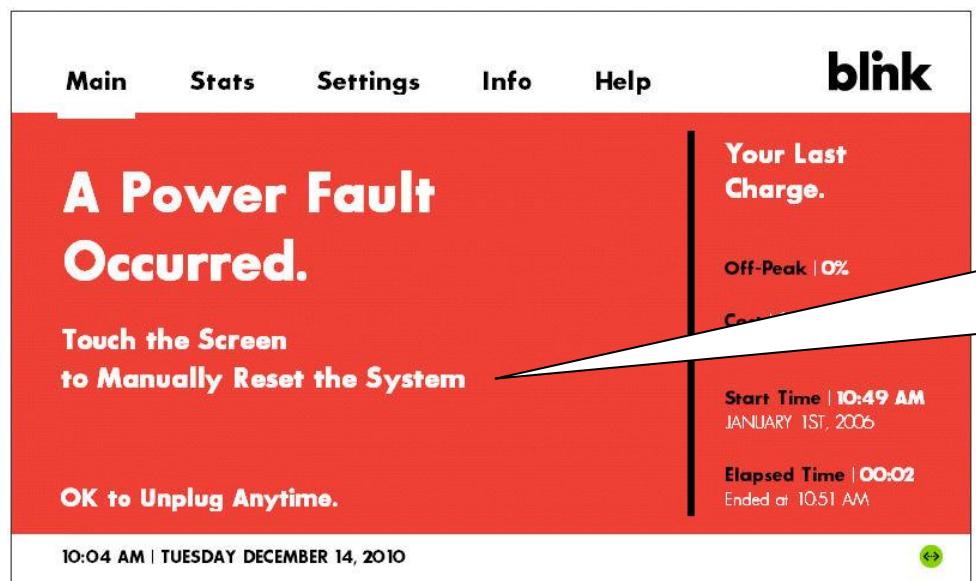
- First screen: Your Blink charging system will reset itself after the indicated number of minutes; you can touch the screen to reset right away.
- Second screen: Your Blink charging system tried to reset itself four times and failed to reset safely. Touch the screen to reset. If it fails to reset (unlikely), contact your Blink Contact Center service representative.

In addition to these screens, an intermittent beep indicates that a power outage has occurred. This beep stops once the system is either manually reset or resets automatically.



After a power outage, if your Blink charger was connected to your vehicle, the charge will resume at a delayed time (randomly generated number between 2 and 12 minutes).

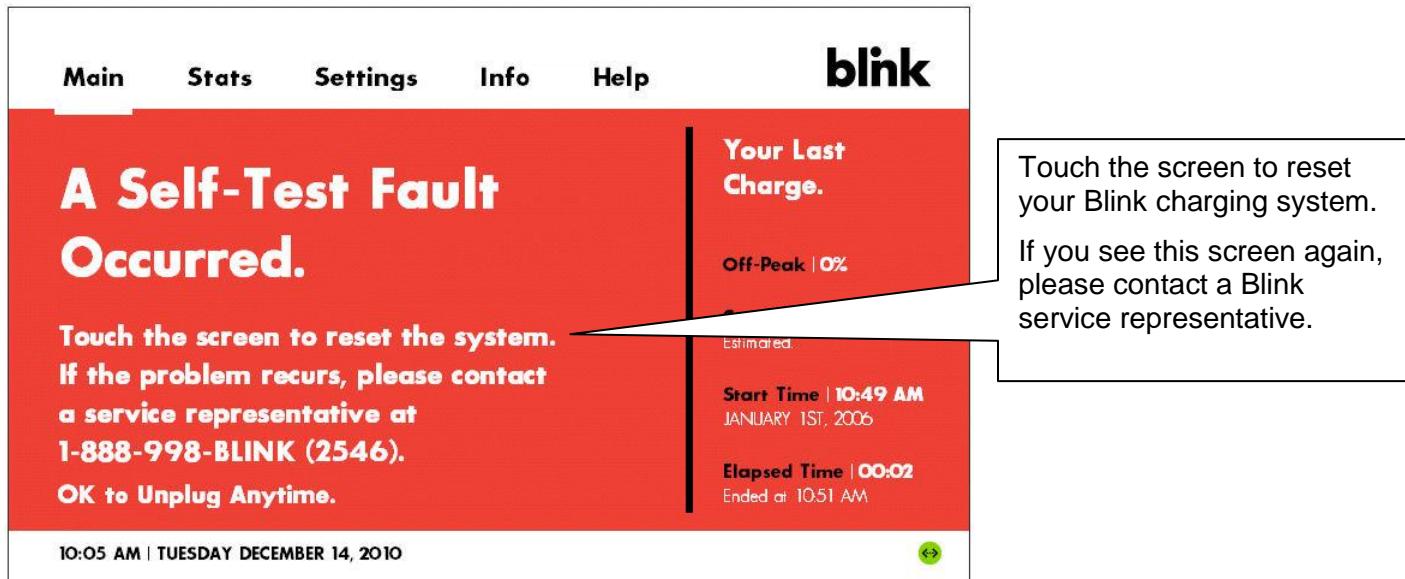
To manually return to the Main screen and resume normal use, unplug the vehicle and plug it back in.



The Blink charging system shows this screen when it cannot reset automatically. Touch the screen to reset the system, or unplug the vehicle and plug it back in.

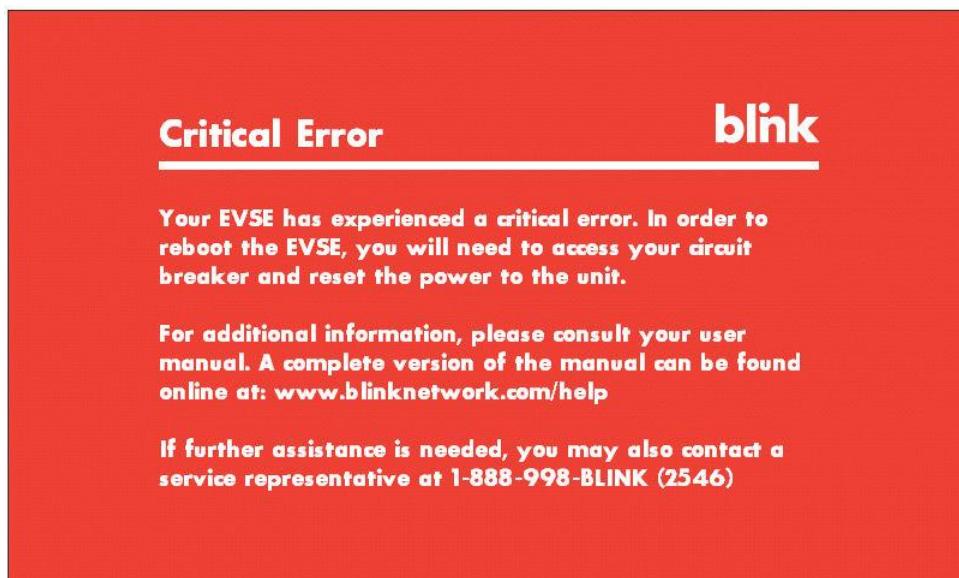
## Self-test fault

Your Blink charging system periodically runs a self-test to make sure its ground fault protection is working properly. If this self-test fails, the screen below appears and an intermittent beep indicates that a self-test fault has occurred. This beep stops once the system is either manually reset or resets automatically. In most cases, simply touching the screen to reset the system resolves the problem. However, if you see this screen again, please contact a Blink Contact Center service representative.



## Critical error

Most users will never see this screen. Following the screen's instructions to turn off the power to your Blink charging system and then turn it back on usually will resolve the problem. If not, please contact a Blink Contact Center service representative.



## Blink updates

Periodically your Blink charging system will download and install firmware updates automatically. Typically this will occur after midnight, and only takes a few minutes. Your Blink charging system will display the screens below during these updates.



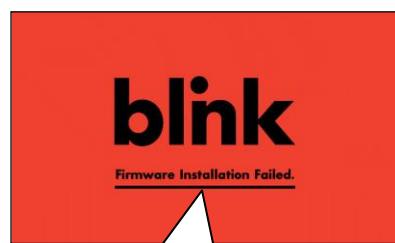
**Note:** If your Blink charging system is shut down and then restarted, it may trigger the update process.



- 1 Your Blink unit displays this message while it is updating its firmware, which operates the system's basic functions.



- 2 This message appears for a few seconds after the update finishes, just before your Blink unit restarts.



- If this message appears, the firmware did not update correctly. Your Blink unit will wait 60 seconds and try again. If this message keeps appearing, contact Blink support.



- 3 This message appears for a few moments after the Blink unit restarts, and then the normal Main screen appears.

# USER MAINTENANCE INSTRUCTIONS

Your Blink charging system is designed to last for many years of use. One way you can ensure a long and happy experience with your Blink charging system is to take good care of this equipment.



## **WARNING: RISK OF ELECTRIC SHOCK**

Do not touch live electrical parts.

- Verify that the system is properly installed and grounded according to its installation manual and national, state, and local codes.
- Incorrect connections will cause electric shock.
- Disconnect input power before installing or servicing the equipment.



## **WARNING: No user-serviceable parts inside**

- If any component part is found to be damaged and/or in need of service, have all such service performed by a certified electrical contractor or qualified Blink charger service facility.

### **Keep Blink equipment clean**

- Regularly check for and remove foreign objects or debris on or around your Blink charging system.
- Wipe the touch screen with a damp cloth or a standard glass cleaner. If using a glass cleaner, spray it on the cloth, not the screen itself. Do not use products containing ammonia.
- Wipe clean the charger housing and cord reel with a damp cloth or a gentle cleanser. Do not spray the equipment directly – spray your cloth or sponge.

### **Check cords**

- If operating, stop the charger and disconnect the connector from the vehicle.
- Inspect the vehicle charging cord – look for nicks in the insulation or excessive rubs on the cord.
- On cord-connected chargers, check the power-input cord for nicks or damage to the insulation and for damage to the plug terminals. Make sure the plug is fully seated.

### **Check connectors**

- If operating, stop the charger and disconnect the connector from the vehicle.
- Visually inspect the Blink connector – verify that the connector handle assembly is undamaged, with no broken or chipped plastic parts. Verify that terminals are straight and undamaged and that the connector fits firmly and is secure in the vehicle receptacle.
- Inspect your Blink unit's connector terminals on the charging cord – look for dark discoloration or corrosion. Verify that the terminals are straight and undamaged. Have any necessary repairs performed by a qualified Blink service representative.
- Refer to your vehicle's manual for inspection and maintenance information on the vehicle inlet. We recommend that you inspect the connector receptacle and terminals in your vehicle. If the terminals are corroded or damaged in any way, have them repaired by a qualified vehicle service facility.

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