bnk

Wall Mount Charging System Owner's Manual



Simply Smart.

©2010-2011 by Electric Transportation Engineering Corporation. All rights reserved.

No part of the contents of this document may be reproduced or transmitted in any form or by any means without the express written permission of Electric Transportation Engineering Corporation. The contents of this document have been verified by the manufacturer to be consistent with the described components; however, inconsistencies sometimes occur. Such inconsistencies should be brought to the attention of an ECOtality North America representative. Changes to this manual may be made at any time without notice.

blink

blink[™], **blink** Network[™], the **blink**[™] logo, and ECOtality North America[™] are all trademarks of ECOtality, Inc.

ANSI[®] is a registered trademarks of the American National Standards Institute.

IEC[®] is a registered trademark of the International Electrotechnical Commission.

IEEE[™] is a trademark of the Institute of Electrical and Electronics Engineers, Inc.

SAE J1772[™] is a trademark of SAE International[®].

Silver Spring[™] is a trademark of Silver Spring Networks[™].

ZigBee[®] is a registered trademark of ZigBee Alliance.

Rev #	Changes Made
1.6	Initial public release; first version with UL amendments
1.7	Verso layout, minor corrections and additions



Electric Transportation Engineering Corporation dba ECOtality North America 430 S. 2nd Avenue Phoenix, Arizona 85003-2418 888-998-BLINK (2546) www.ecotalityna.com www.blinknetwork.com

Contents

IMPORTANT SAFETY INSTRUCTIONS	1
Federal Communications Commission (FCC) Statement	3
Welcome to blink	4
blink features	4
A closer look at Your blink connector Your blink touch screen	5
More blink features. Internal energy meter Flexible communications Safety Even more from your blink	6 6 6
The blink network The blink portal	
Setting up blink	8
Calibrate the blink touch screen	8
Start the setup process	9
Step 1 — Network Setup 1 A. Select your home network type 1 B. Enter your password 1 C. Set up the IP 1 D. Set up an HTTP Proxy 1 E. Set up Wi-Fi manually 1	11 12 13 14
Step 2 — Time and Date Setup A. Set the time, date, time zone, and Daylight Savings	
Step 3 — Electricity Rate Setup	19
Step 4 — Schedule Charging Times	23
Step 5 — Creating a PIN (optional)	26

Using blink	27
When your vehicle is unplugged	
When your vehicle is plugged in Vehicle is waiting to charge	
Vehicle is charging	
Charging stopped	
Charging cancelled Rescheduling a charge	
Charging delayed or interrupted	
View your charging history	
Change your blink settings	
Enter your blink PIN	
, Change your charge schedule	
Change your electricity billing rates	
Change the date and time settings	
Change your blink PIN	
Update your network setup	
Test your network connection	
View information about your blink charging system	
View information about the blink intranet	
Learn about the EV charging network	
Get help with using your blink	40
Power issues	41
Power outages	
Power faults	
Self-test fault Critical error	
blink updates	
USER MAINTENANCE INSTRUCTIONS	
Keep blink equipment clean Check cords	
Check connectors	

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.

WARNING: Used when there is a risk of personal injury

A

∕!∖

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

When using electric products, basic precautions should always be followed, 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 are frayed, have broken insulation, or any other signs of damage.
- e. Do not use this product if the enclosure or the EV connector are broken, cracked, open, or show any other indication of damage.
- f. MODELS WE-30K/48K 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.

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.

g. **MODEL WE-30C/48C 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.
- Disconnect input power before installing or servicing the equipment.



承

WARNING: RISK OF FIRE

This equipment has arcing or sparking parts that must not be exposed to flammable vapors. This equipment must be located at least 18 inches (460 mm) above the floor.



WARNING: Not to be used for vehicles that require ventilation during charging

This equipment is intended only for charging vehicles that do not require ventilation during charging. Please refer to your vehicle's owner's manual to determine its ventilation requirements.



WARNING: Models WE-30K/48K - Indoor use only

Cord-connected models of this equipment are intended for indoor use only.



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) Statement

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.

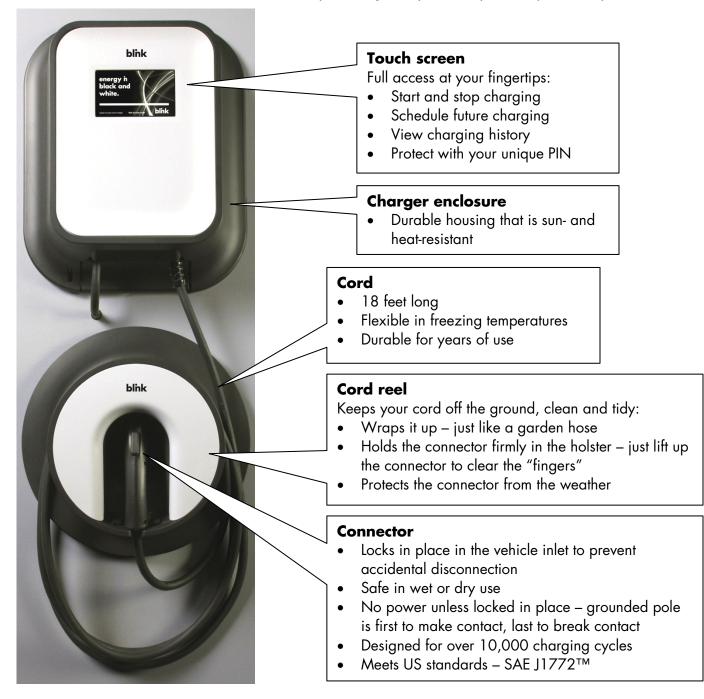
This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

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

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.



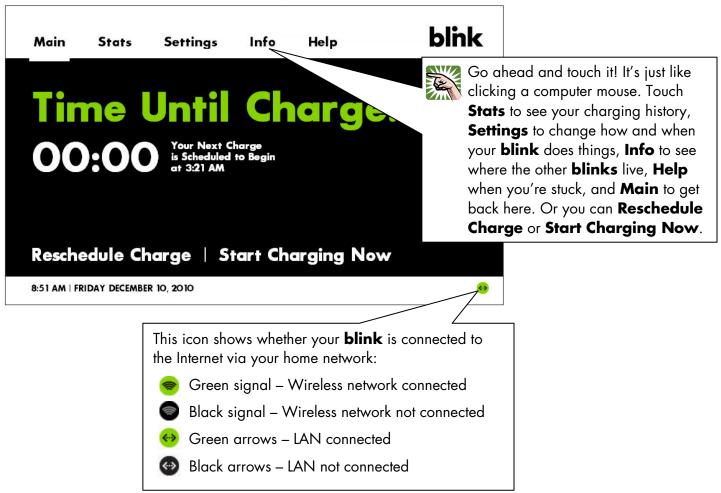
A closer look at...

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



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 ZigBee, 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.

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 CO₂ 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!

• 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.

A circle (O) appears in one corner. Touch the circle. Repeat this step three times as the circle moves to each corner.

• 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's** settings any time, by touching **Settings** on the Main screen.

Main Stats Settings Info Help	blink	Touch Settings to change your
Please Plug in	GIUTE	blink's settings later.
Your Vehicle.	Off-Peak 0% Cost \$0.00 Estimated Start Time 10:49 AM JANUARY \$1, 200	Mein Stets Settings Info Help bink Charge Schedule Device Info klp bink kWh Rate(s) Network Setup Date & Time Network Test
Charging will begin at 3:21 AM 256 PM THURSDAY DECEMBER 9, 2010	Elapsed Time 00:02 Ended at 10:51 AM	Change PIN Intranet

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.

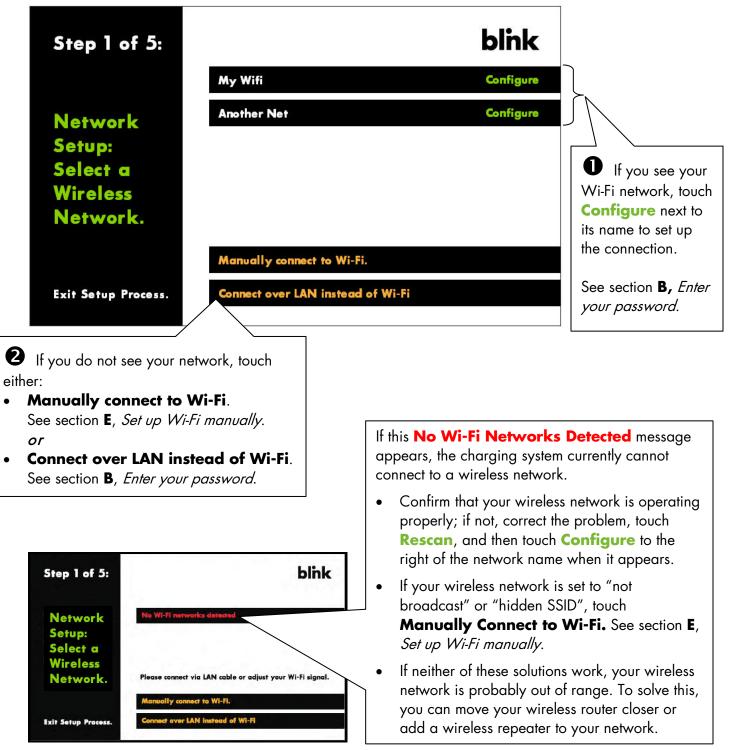
CAUTION: The Ethernet port delivered with your **blink** charging system is intended for indoor use only (such as in a garage). Contact the **blink** Call Center or a qualified **blink** installer for information on the additional requirements for a safe outdoor Ethernet connection.

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

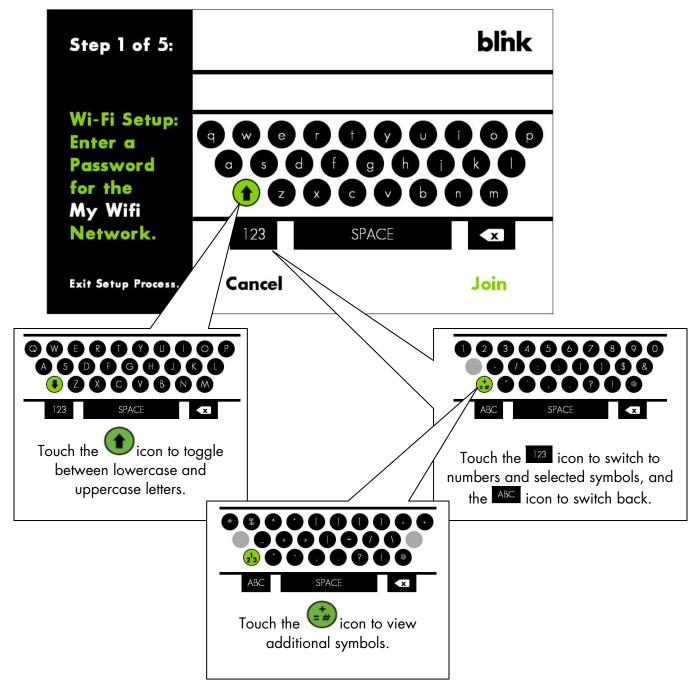


blink

Step 1 (continued)

B. Enter your password

If the network you selected has been secured with a password, the keypad screen appears. This onscreen 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.



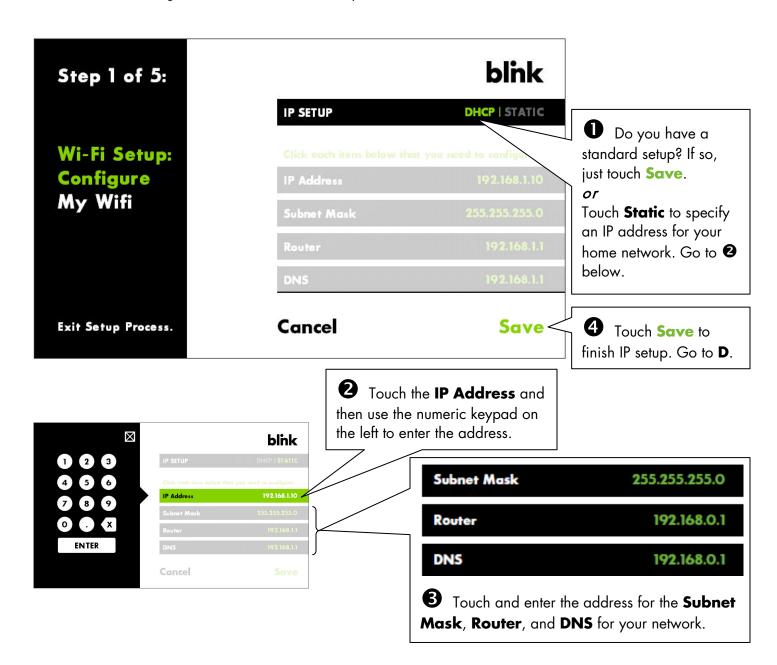


Step 1 (continued)

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**.

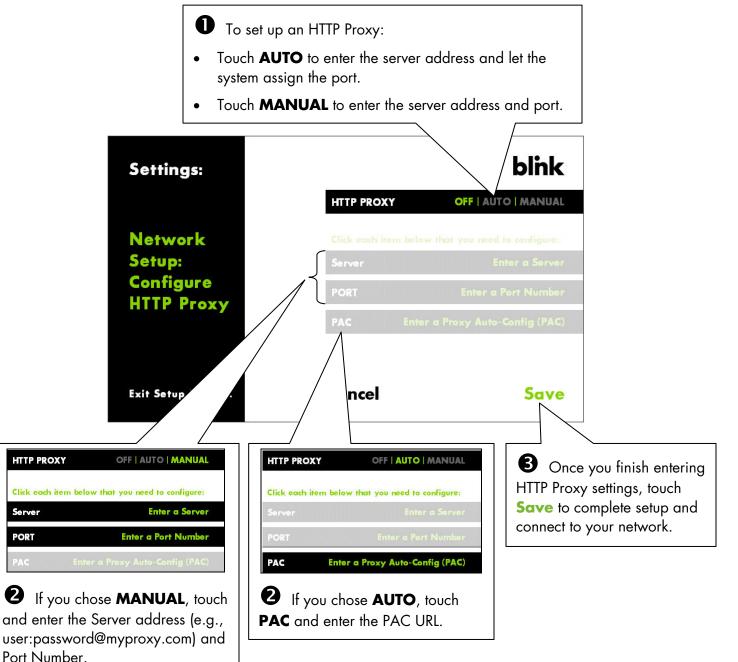
If you are an advanced user familiar with network setup, you may choose to specify a static IP address and associated settings. In this case, follow the steps shown below.



Step 1 (continued)

D. Set up an HTTP Proxy

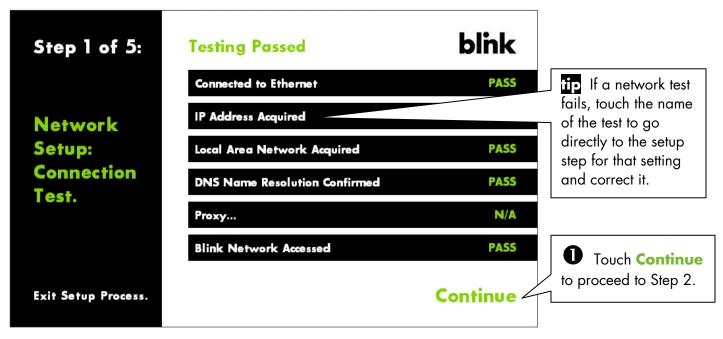
Very few networks require you to set up an HTTP Proxy; this is an advanced option. In those rare cases that this is necessary, it is generally sufficient to select **AUTO**, which allows you to enter the URL and lets the system assign a port. To manually assign both the URL and port, choose **MANUAL**.





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:	Testing Failed	blink	If	If the Network Test fails:		
			•	Touch Skip to resolve		
	Connected to Ethernet	PASS		the issue later.		
Network	IP Address Acquired	PASS	•	Touch Restart Setup to check and correct the		
Setup:	Local Area Network Acquired	PASS				
Connection	DNS Name Resolution Confirmed	PASS		network settings.		
Test.	Proxy	N/A	1	Touch Retry Test to try again.		
	Blink Network CON		If	you cannot resolve the		
Exit Setup Process.	Skip Restart Setup	Retry Test		roblem yourself, please ontact blink support.		

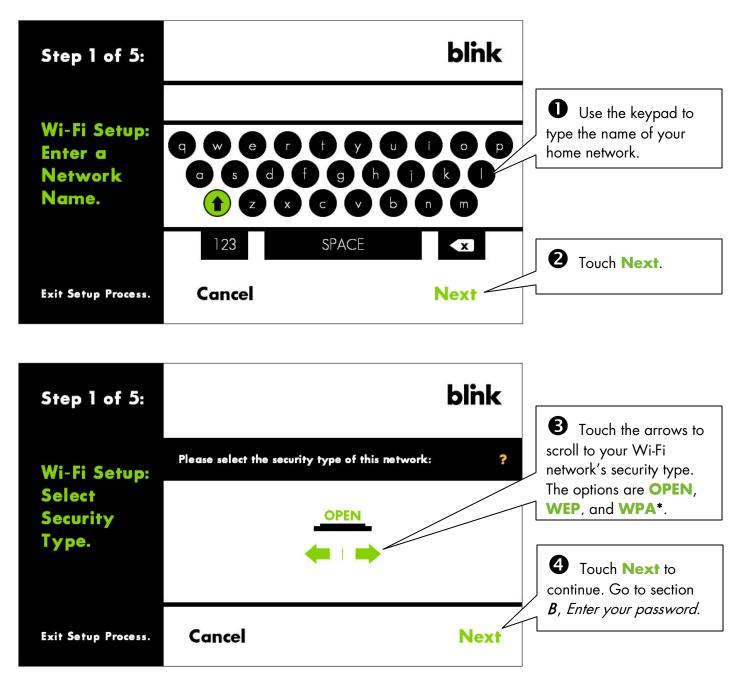


Step 1 (continued)

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.



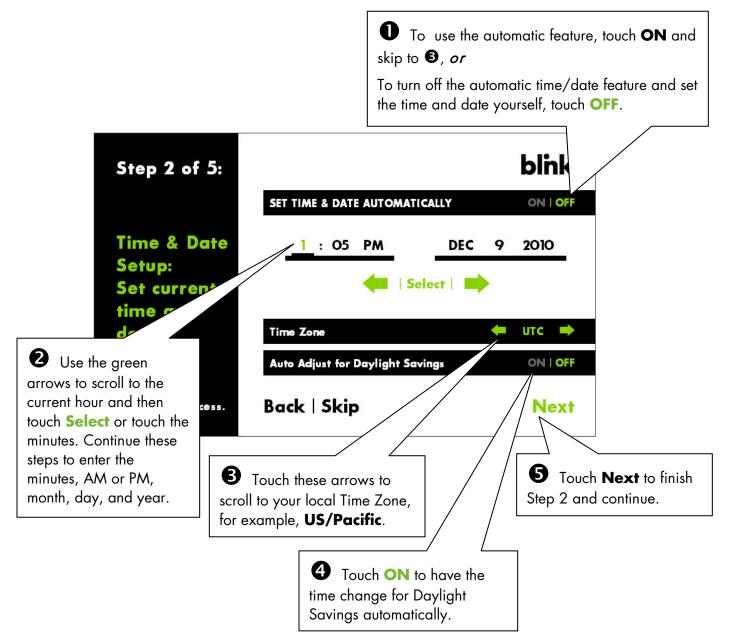
* Note: If your wireless network has WPA2 encryption, select WPA.

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.



Step 3 – Electricity Rate Setup

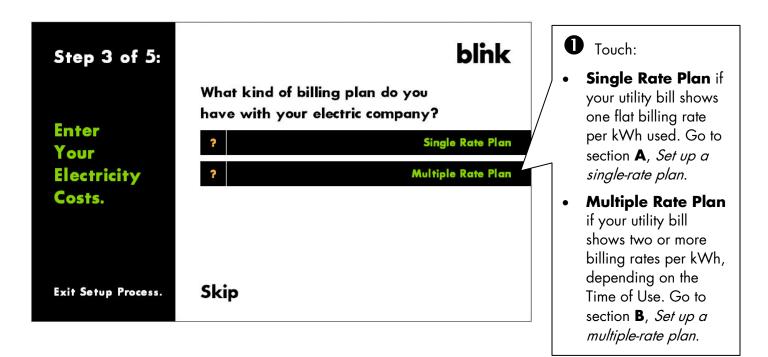
Entering your electric company's billing rates for energy use into your **blink** charging system helps you coordinate your vehicle charging times with the least expensive billing rates. It also enables your **blink** to estimate the cost of each charging session and provide additional information based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

Most utilities provide two types of rate plan:

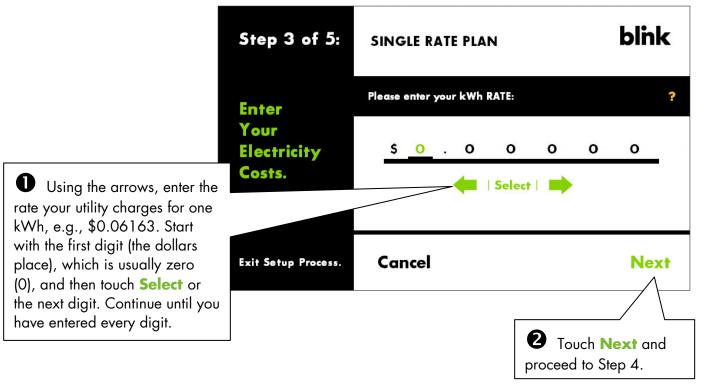
- Single-rate plan: Energy costs are the same at all times and are billed at one flat rate
- Multiple-rate plan: Energy costs vary by time of day, weekday/weekend, and/or season

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.



A. Set up a single-rate plan

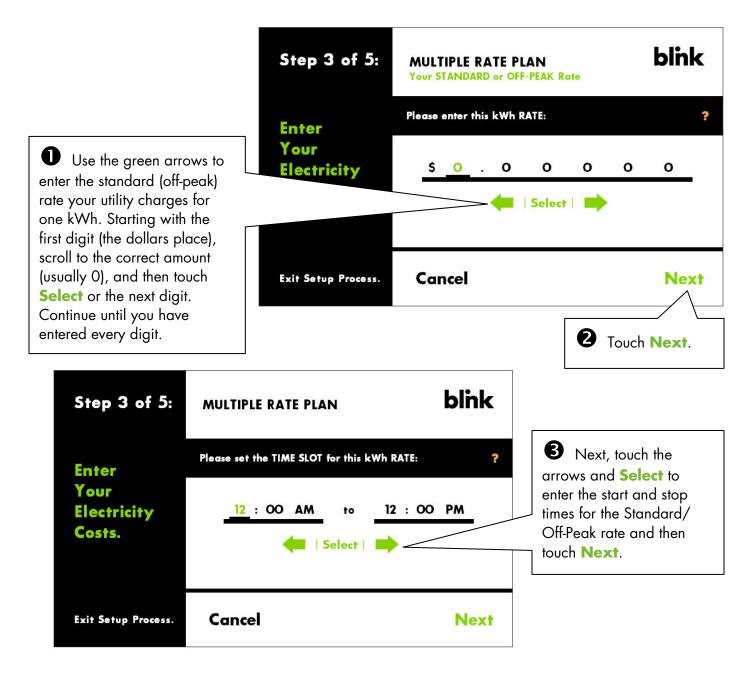


Step 3 (continued)

B. Set up a multiple-rate plan

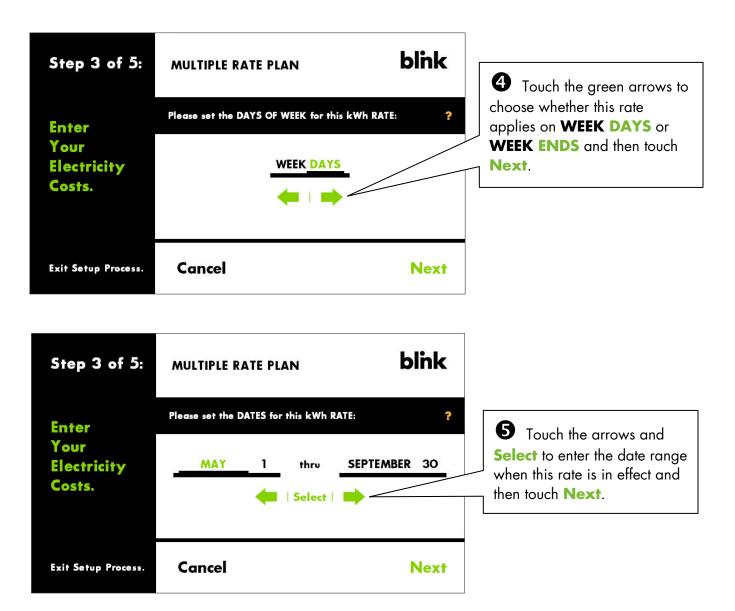
For a multiple-rate plan, you will need to enter at least two billing rates for your electricity:

- 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

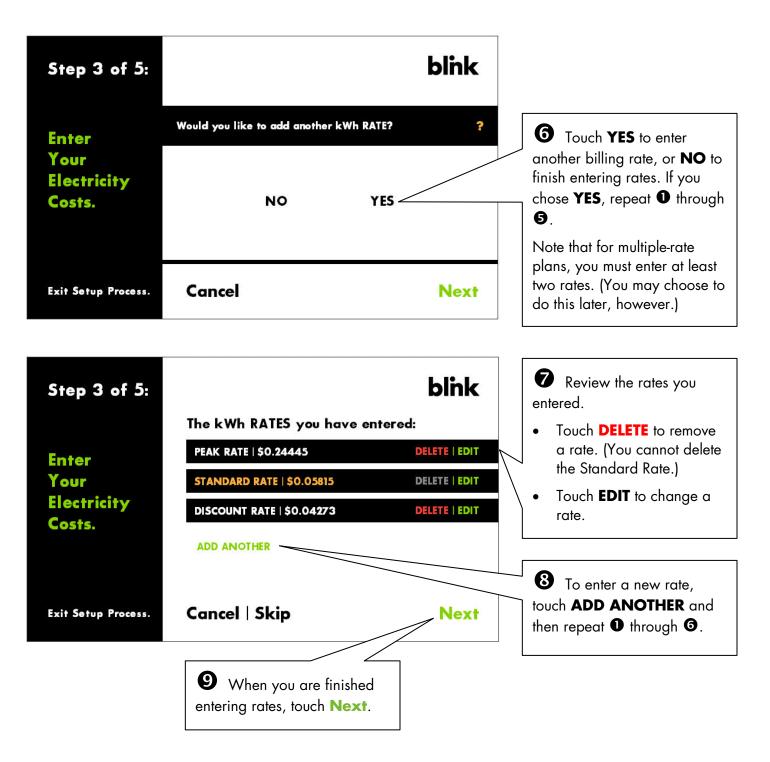




Step 3 (continued)



Step 3 (continued)



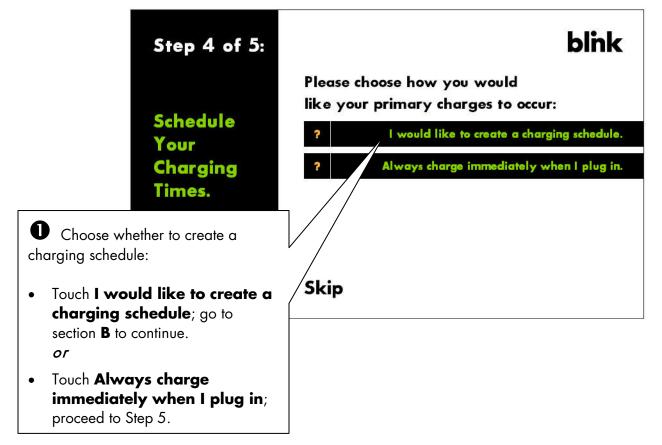
Step 4 – Schedule Charging Times

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, because it helps you take advantage of time-of-use plans. 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.

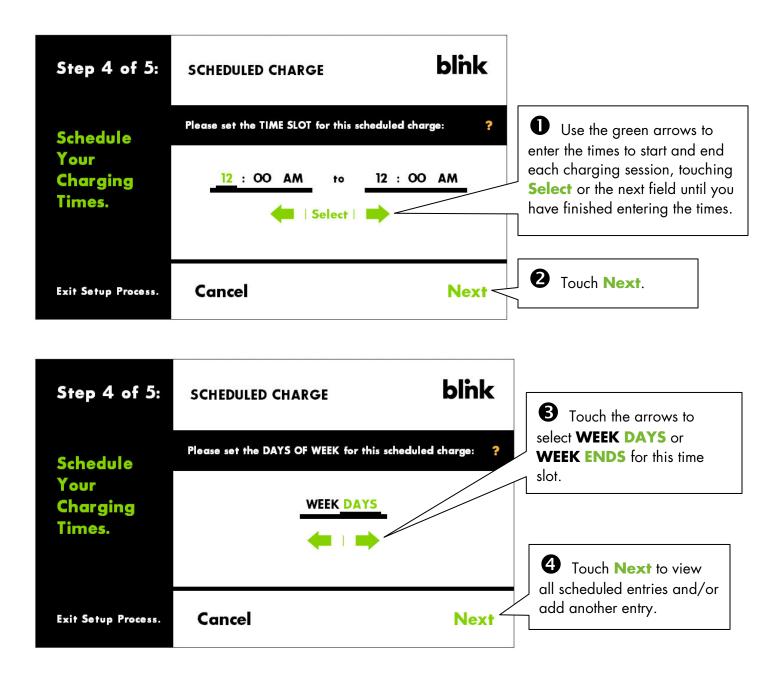
You also can choose to have charging start immediately when the connector is plugged into your vehicle. This works well when you have a single-rate electricity billing plan, where there is no cost advantage if you delay charging.



Step 4 (continued)

B. Enter the desired charging times

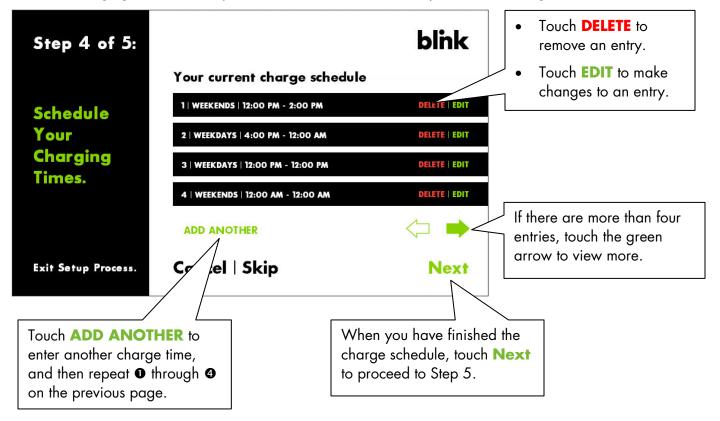
Enter time slots for when you want your **blink** charging system to be available for charging.





Step 4 (continued)

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

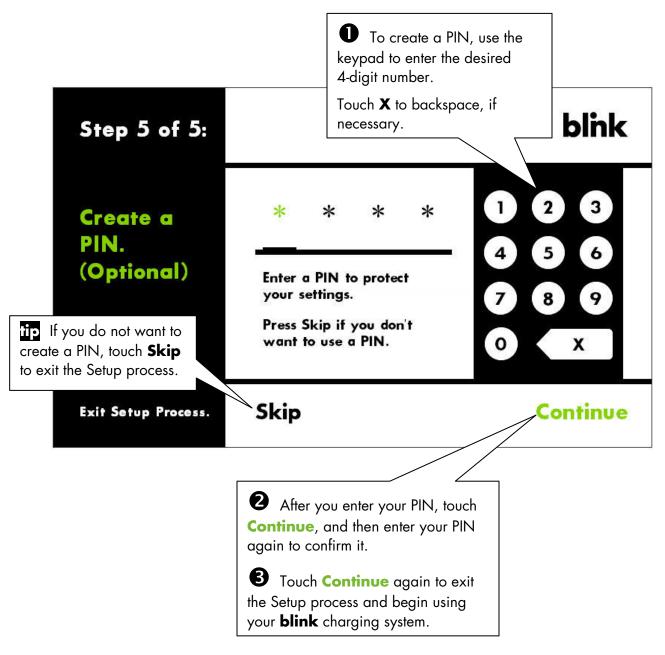




Step 5 – Creating a PIN (optional)

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.

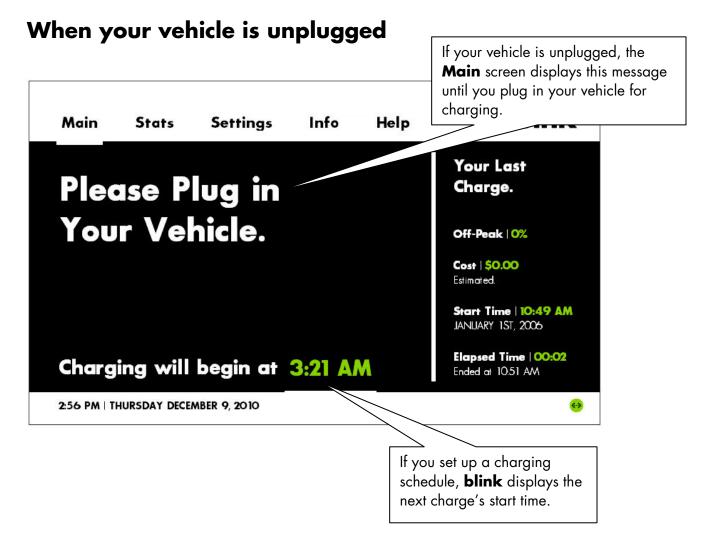
We strongly recommend creating a PIN if small children will be in your home or if your **blink** charging system is in an easily accessible location, such as a carport.





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.

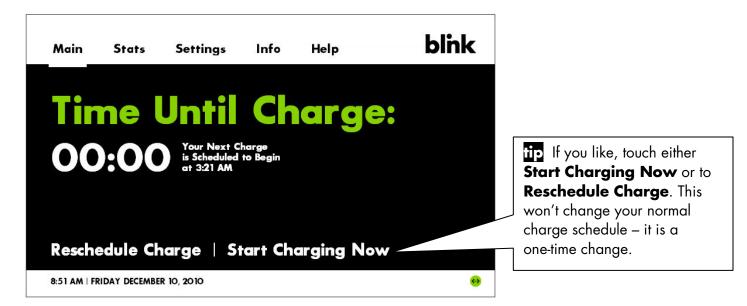




When your vehicle is plugged in

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



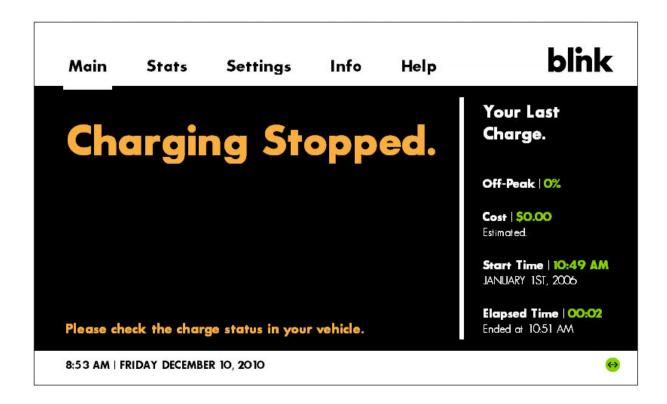
Note: The **Total Elapsed Time** indicates the cumulative time that the vehicle has been drawing current from your **blink**. To determine whether your vehicle has a full charge, check its onboard charge status.



Charging stopped

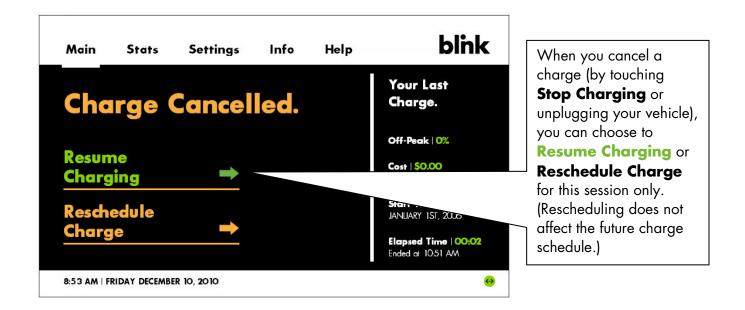
The following screen appears when the end of the scheduled charging time has been reached.

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.

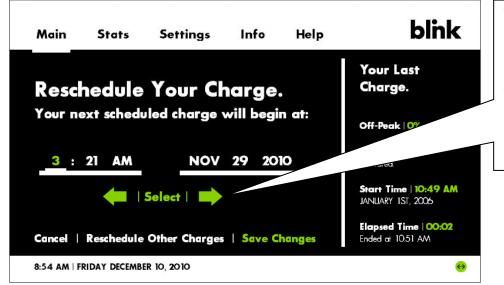


Charging cancelled

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 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

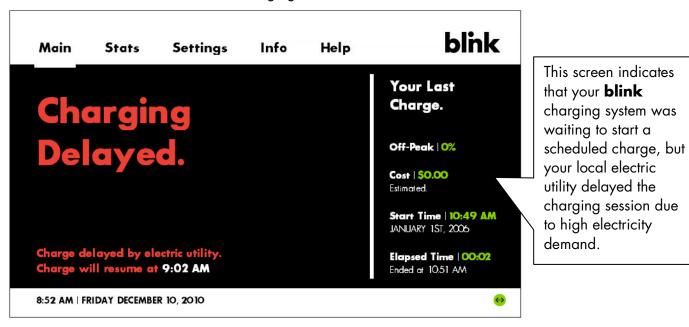


To reschedule a charge, touch the green arrows and **Select** to enter the start time and date for your vehicle's next charge. When you are done, touch **Save Changes**.

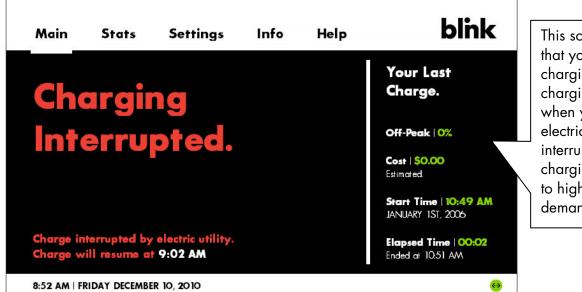


Charging delayed or interrupted

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.

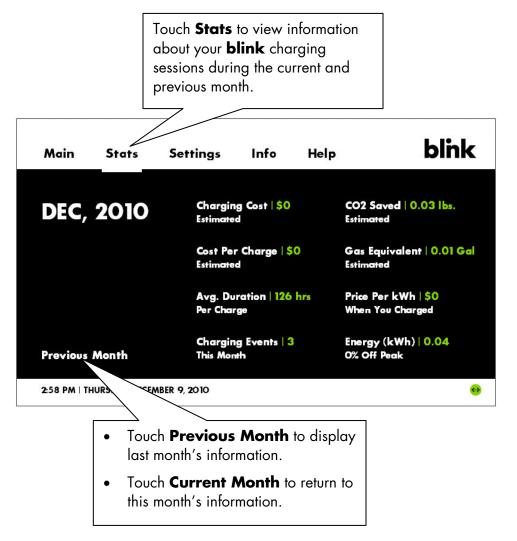


This screen indicates that your **blink** charging system was charging your vehicle when your local electric utility interrupted the charging session due to high electricity demand.

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 CO₂ you saved with your vehicle and **blink** charging system, and more.

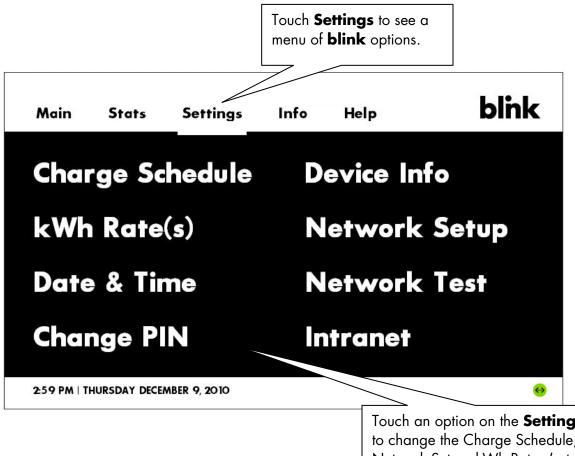
Note: You must enter your electric company's billing rates at your residence in order for **blink** to calculate Charging Cost, Cost Per Charge, Price Per kWh, or % Off-Peak.





Change your blink settings

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

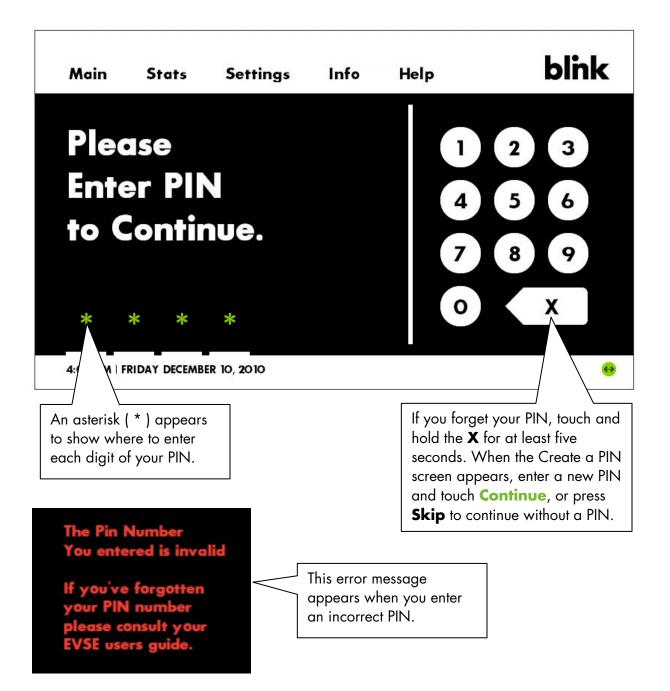


Touch an option on the **Settings** menu to change the Charge Schedule, PIN, Network Setup, kWh Rates (rate plan), or Date & Time, or to view the **blink** Device Information.



Enter your blink PIN

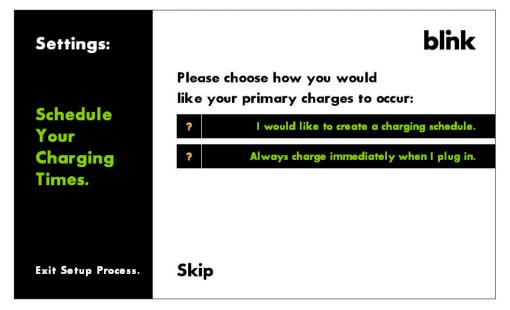
If you created a PIN during setup, your **blink** will prompt you to enter it each time you try to change one of the saved settings, including the charge schedule, billing rates, time and date, and network setup.





Change your 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.





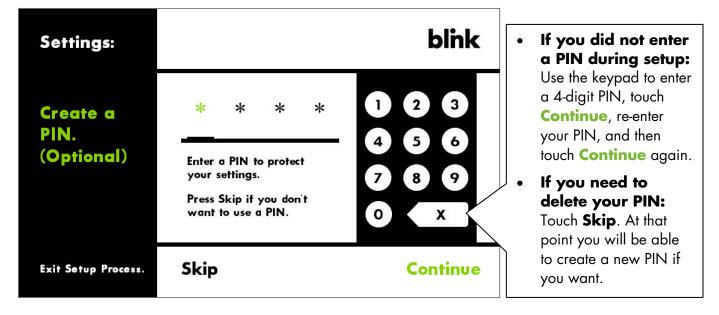
Change the date and time settings

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.



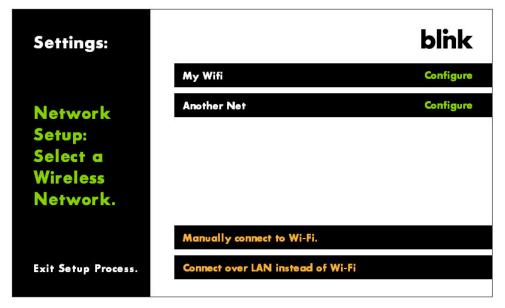
Change your blink PIN

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



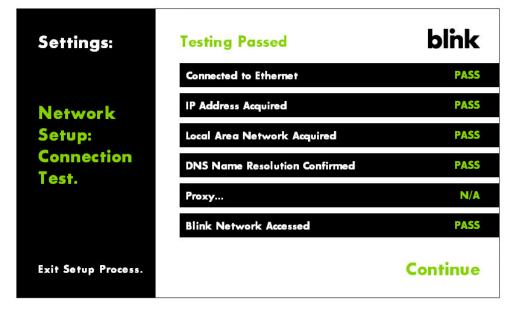
Update your network setup

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

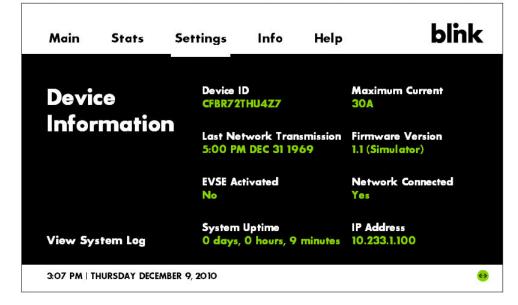
Touch the **Network Test** option on the **Settings** menu to display the following screen.





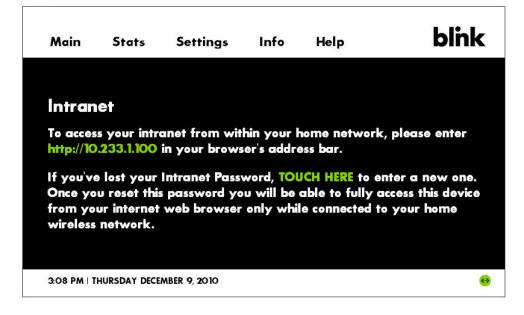
View information about your blink charging system

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



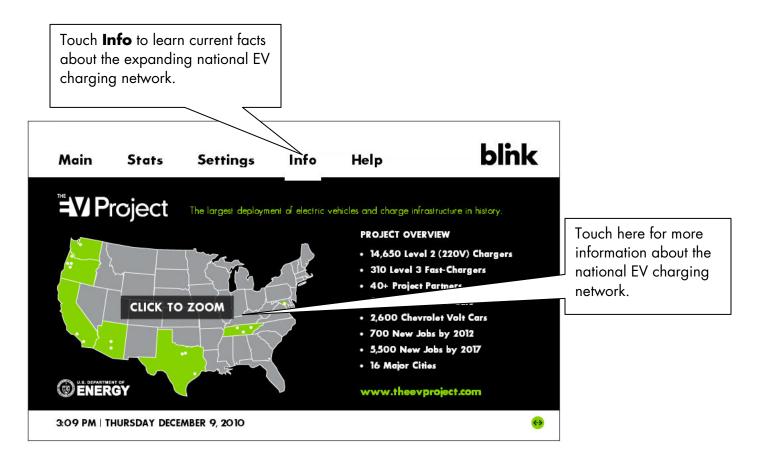
View information about the blink intranet

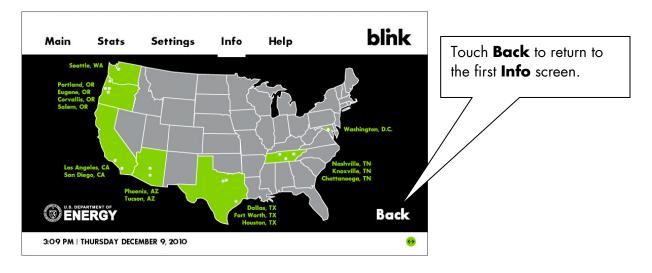
Touch the **Intranet** option on the **Settings** menu to display the following screen. This screen provides information about connecting to the **blink** intranet from your home network. The default intranet password is "blinkadmin".





Learn about the EV charging network







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.	
Main	Stats	Settings	Info	Help	blink
For complete help information, please consult the Owner's 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 If your EVSE requires service, please call 1-888-998-BLINK (2546)					
1:40 PM TUESDAY DECEMBER 14, 2010					



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** skips the calibration step and displays the Welcome screen below.

The **Welcome to blink** screen appears.

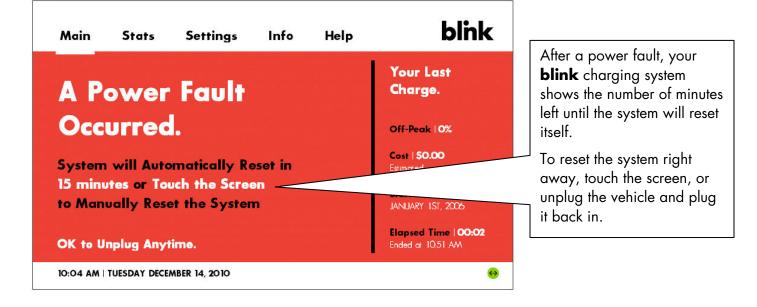


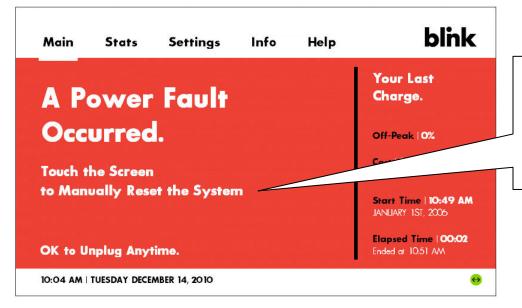
Power faults

The following screens indicate that a power fault 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 fault has occurred. This beep stops once the system is either manually reset or resets automatically.



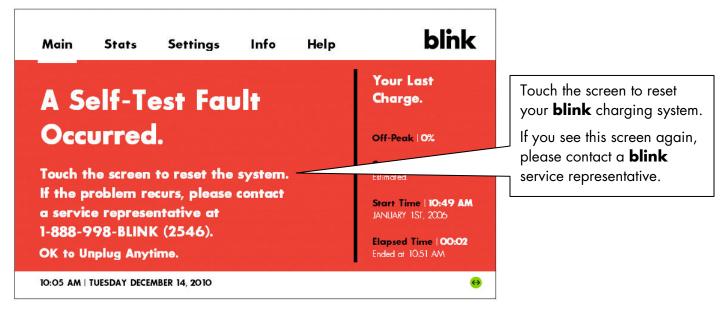


The **blink** charging system shows this screen when it cannot reset automatically. Touch the screen to reset the system, or unplug the vehicle and plug it back in.



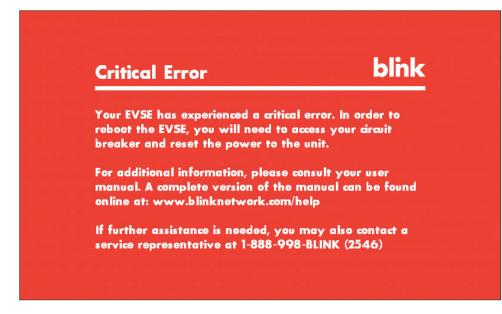
Self-test fault

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. This typically 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.



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 an 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 with 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'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.

Index

8

802.11g · 6

A

ANSI 12.20 · 6

В

Billing rates \cdot 18, 35 **blink** intranet \cdot updates \cdot **blink** Network \cdot **blink** screens Device Information \cdot Help \cdot Info \cdot keypads \cdot Main \cdot 27–31 Settings \cdot Stats \cdot

C

Calibrate touch screen \cdot 8 Cancel charging · 30 CDMA modem \cdot 6 Change **blink** settings · 33 Change PIN number · 34, 35, 36 Charge schedule · 35 Charging · 28 cancelled · 30 delayed · 31 history · 32 interrupted · 31 network \cdot 39 schedule \cdot 23 stopped · 29 waiting · 28 Clean your blink · 45 Configure your blink · 9 Connection test · 15 Connector · 4, 5 $Cord \cdot 4$ Cord reel · 4 Critical error · 43

D

Daylight Savings Time + 17 Demand response + 6, 31 Device Information + 38 DNS setting + 13

E

Electricity rates \cdot 18, 35 Energy costs \cdot 18 meter \cdot 6 theft \cdot 6 usage \cdot 6 Ethernet \cdot 6, 10

F

Firmware update · 44

G

Ground fault \cdot 42

Η

Help · 40 HTTP Proxy · 14

Info screen · 39 Internet connection · 10, 15 Intranet · 38 IP Setup · 13

J

J1772 · See Connector

Κ

Keypads · 12

L

LAN · 6, 10

Μ

Maintain your **blink** · 45 Manual Wi-Fi setup · 16 Meter · 6 Multiple-rate plan · 18, 20, 35

Ν

Network Ethernet · 10 LAN · 10, 37 manual Wi-Fi setup · 16 settings · 37 setup · 10 test · 15, 37 Wi-Fi · 10, 16, 37

0

Off-peak rate · 20 Outage · 41

P

Peak rate · 20 PIN number · 26, 34, 36 Plug · *See* Connector Power fault · 42–43 Power outage · 6, 41 Proxy · 14

R

Reschedule charge · 30 Router setting · 13

S

Safety

features · 6 instructions · 1 Self-test fault · 43 Set up your blink · 9 Settings menu · 33 Setup billing rates · 18 charging schedule · 23 network · 10 PIN number · 26 Time & Date · 17 Single-rate plan · 18, 19, 35 Stats · 32 Subnet Mask setting · 13

T

Test network connection · 15, 37 Time & Date · 17, 36 Time zone · 17 Time-of-Use rate · 18 Touch screen · 4, 5 calibrate · 8

U

Updates \cdot 44

V

Ventilation · 2 View charging history · 32

W

WEP · 16 Wireless network · 10, 16, 37 WPA · 16 WPA2 · 16



This page intentionally left blank.



430 S. 2nd Avenue Phoenix, Arizona 85003-2418 888-998-BLINK (2546) www.ecotalityna.com www.blinknetwork.com

©2010-2011 by Electric Transportation Engineering Corporation. All rights reserved. **blink**[™], **blink** Network[™], and the **blink**[™] logo are all trademarks of ECOtality, Inc.

OM0001_L2_R_WMv1.7 1/28/2011