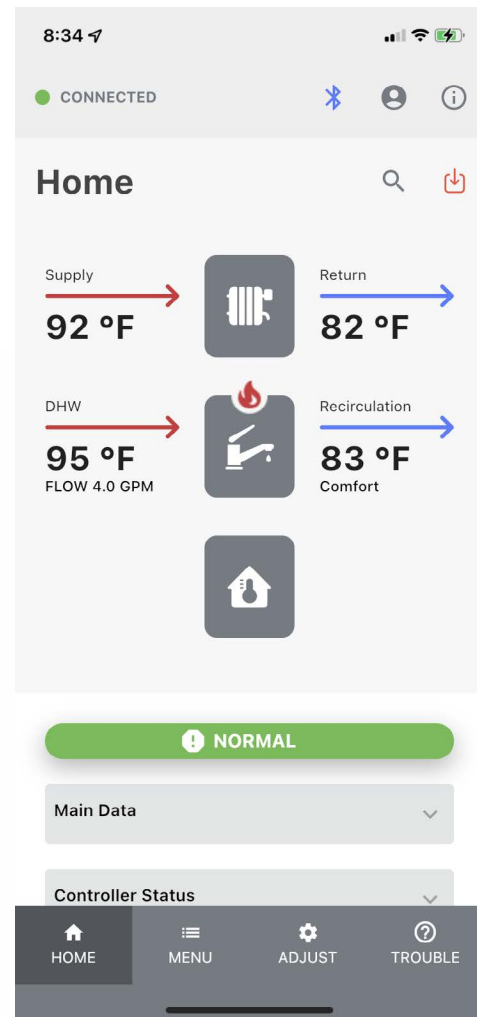


NYB Connect

BLUETOOTH ADAPTOR

Instruction Manual

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DANGER

Before making any setting changes, installing or servicing this boiler, follow all instructions including DANGER, WARNING, CAUTION, and NOTICE hazard notifications found in boiler Installation, Operating and Service Instructions provided with boiler and available through NYB Connect app.

NOTICE: Only use the Bluetooth Adaptor while on site. Never leave the Bluetooth Adaptor on site and connected to boiler.

Need help or have a question?
Contact Customer Support at (215) 855-8055

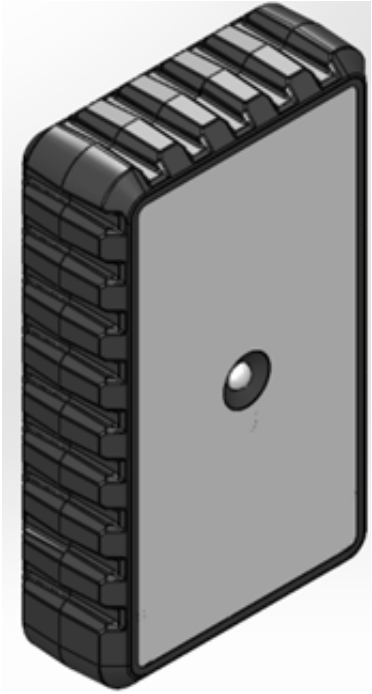
111681-01 - 10/23



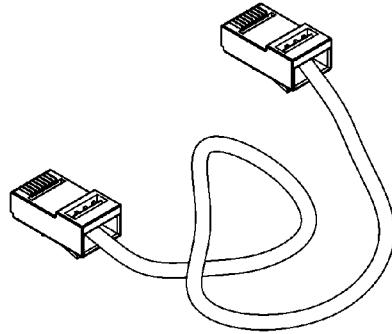
Introduction

NYB-Connect is a commissioning, diagnostic and service tool consisting of a Bluetooth Adaptor and mobile device app. The app communicates with any New Yorker Boiler condensing boiler. NYB-Connect is a local service tool with portal data collection and live streaming to enable remote support.

Included with the Bluetooth Adaptor:



NYB-Connect Bluetooth Adaptor



Cable 1,
RJ12 Straight Cable,
36-inch, Silver
For GHE II Boiler

Compatible Devices:

Apple device, an iPhone or iPad, running iOS version 13 or newer.

Android device, mobile phone or tablet, running Android version 10 or newer.

Compatible Boilers:

GHE II.

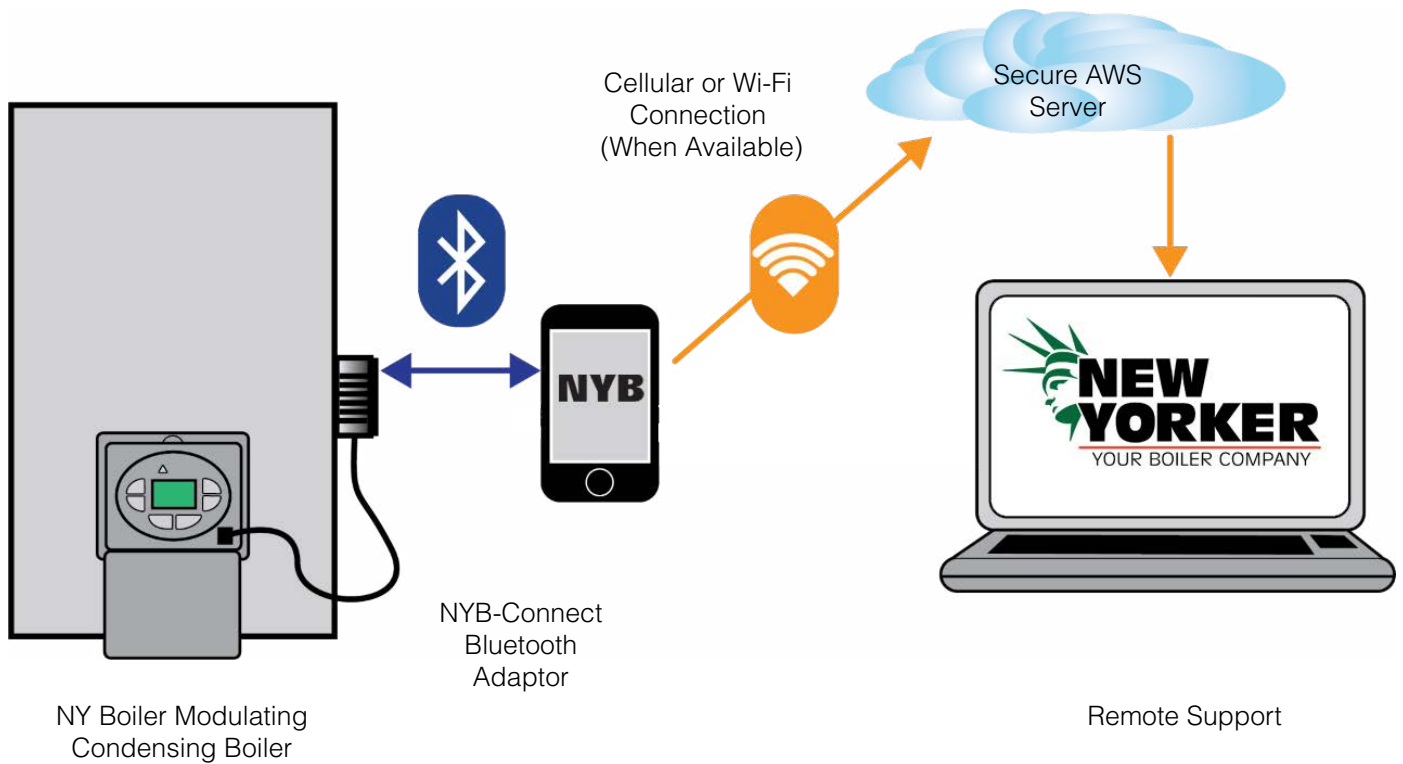
Introduction (continued)

NYB-Connect Features:

- Bluetooth Adaptor connects boiler to NYB-Connect App.
- English and Spanish Language.
- Start-up, Troubleshoot and Service Wizards.
- Data logs, Service & status reports sent to cloud.
- GHE II Boiler Control firmware updates.

Portal Features:

- Stores reports, data logs, site photos and alarm history.
- Real-time remote support when signal available.



Getting Started

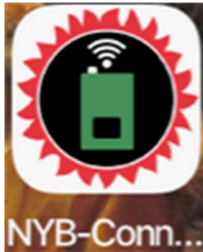
Step 1: Install App

IOS

Go to App store

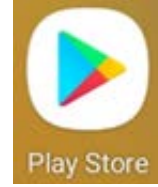


Download NYB-Connect

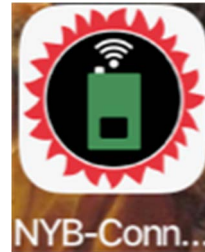


Android

Go to Play store



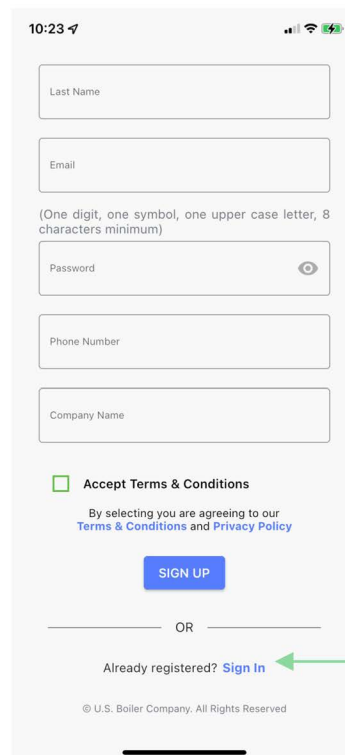
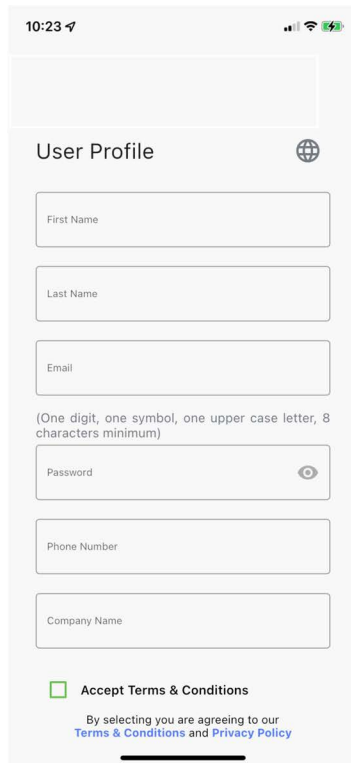
Download NYB-Connect



Step 2: Create User Account

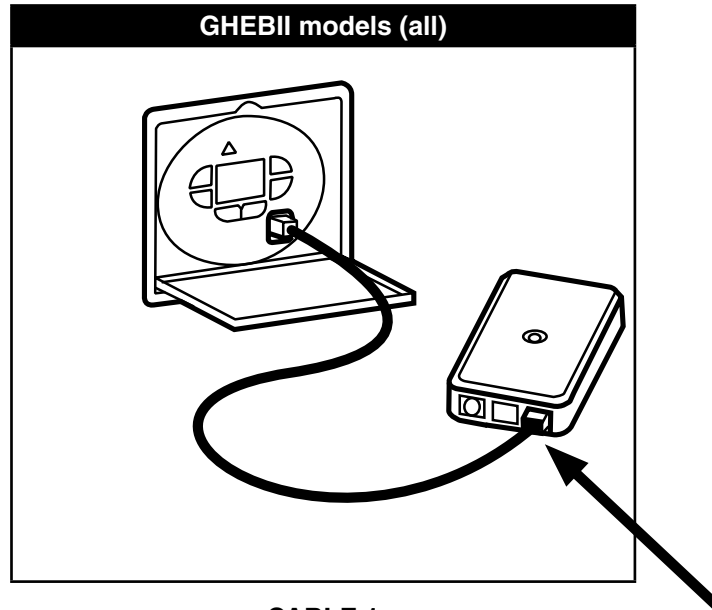
Fill out profile and review and accept Terms and Conditions, Privacy Policy:

Existing User select Sign In:



Select Here
If Already
A User

Step 3: Connect Bluetooth Adaptor



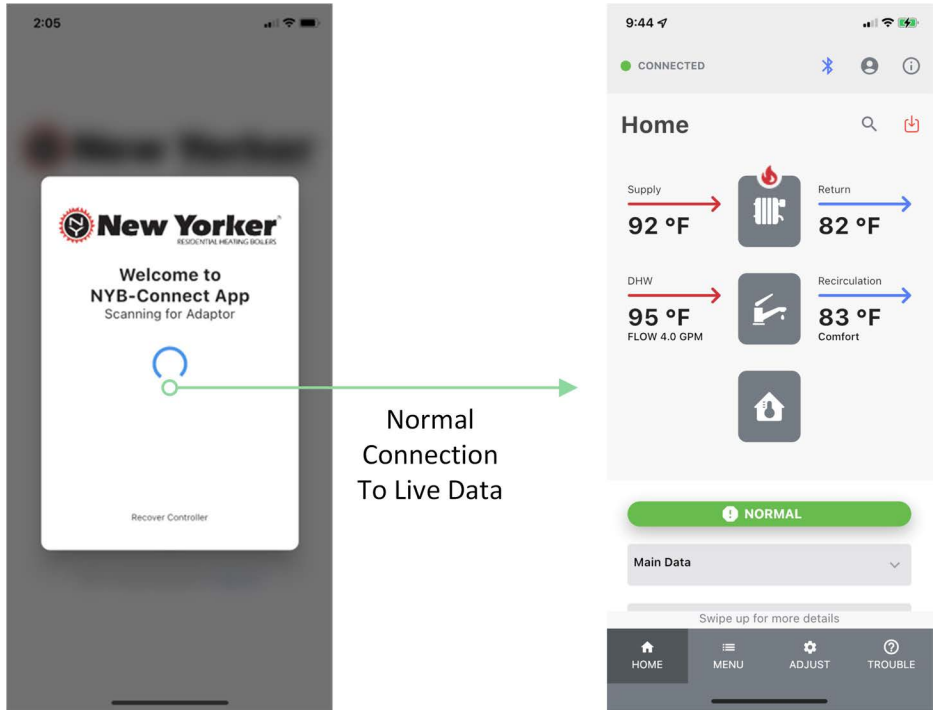
CABLE 1
RJ12 Straight Cable,
36-inch, Silver
For GHE II Boiler

Getting Started (continued)

Step 4: Using App

Launch App

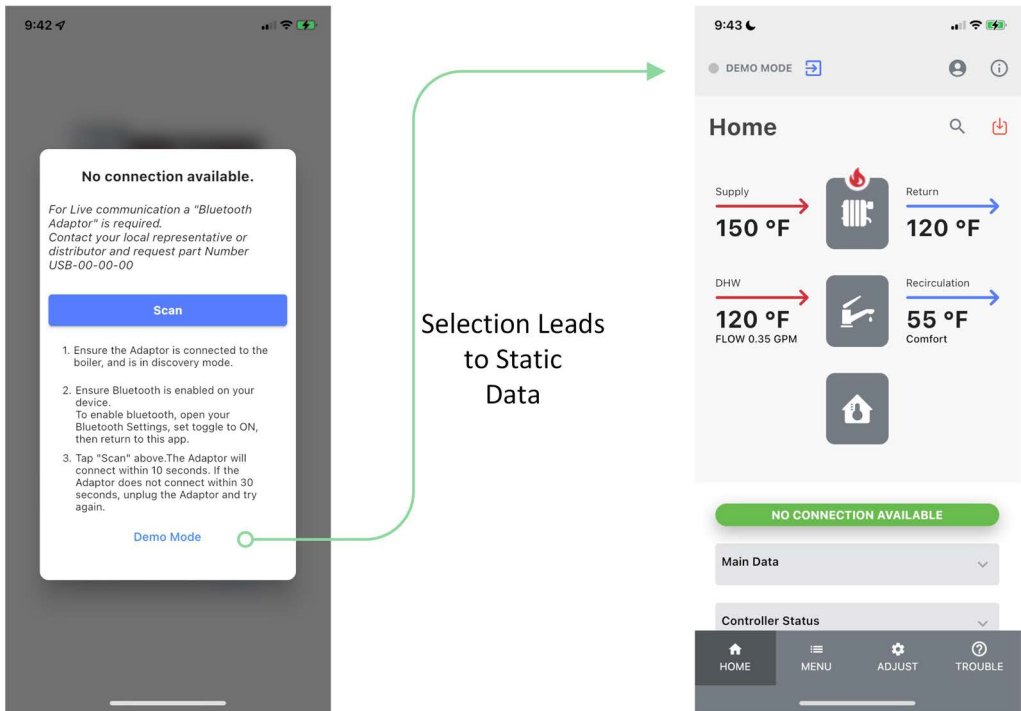
Before opening the App, connect Bluetooth Adaptor and wait for LED light to turn solid green.



Normal Connection To Live Data

Demo Mode

When not near a boiler or Bluetooth Adaptor a user may view an GHE II Boiler Demonstrator Mode to review available options, manuals, and alarm descriptions.



Selection Leads to Static Data

If having trouble connecting, see **Appendix**, Specification for Bluetooth Adaptor LED blink codes and Troubleshooting Tips.

Getting Started (continued)

Step 5: Sign into NYB-Connect Web Portal

After you have completed your profile using the NYB-Connect App, New Yorker Boiler customer service will send you an invitation to sign into the web portal where you can view status, service reports and live data when a cell signal is available.

Web Portal

The image shows an email invitation from New Yorker Boiler Company and a screenshot of the web portal interface. The email, titled "New Yorker Boiler Company - Connect Web Portal Login", is from nybconnect@newyorkerboiler.com and includes a "Sign into New Yorker Boiler Company - Connect Web Portal" button. The web portal screenshot shows the user logged in as Peter Cloonan and displays boiler details for model GHEHBII-120-02-N, including a status of "NORMAL" and live temperature data: Supply 88°F and Return 85°F.

MODEL	GHEHBII-120-02-N
SERIAL	65874978
HOME OWNER	Burnham Holdings Cloonan
ADDRESS	2930 Old Tree Dr, Lancaster, Pennsylvania 17603
PHONE	7177258723
EMAIL	pcloonan1@gmail.com
BOILER ADDRESS	2930 Old Tree Dr, Lancaster, Pennsylvania 17603
CONTRACTOR & TECHNICIAN REPRESENTATIVE	NewYorker Plumber1 NewYorker Plumber1 Burnham Holdings Cloonan

Supply **88°F** → Return **85°F** →
-°F → FLOW - GPM → -°F →

STATUS ARCHIVES MANUALS SITE PHOTOS ALARMS

Boiler GHEHBII-120-02-N
Supply RR °F

If you do not receive an invitation email, call customer service at (717) 397-4701.

Monitoring

On Site

Home screen provides water temperatures supplied to and returning from heating elements and faucets. At a glance the user is aware of the current demands and burner status. Additional information is available from Main Data, Controller Status, Input/Output Status, as well as Zone Panel Status and Sequencer Status when used.

The image shows two screenshots of a mobile monitoring application interface. The left screenshot is the 'Home' screen, and the right screenshot shows the 'Main Data' section. Green arrows point from text labels to specific UI elements in both screenshots.

Left Screenshot (Home Screen):

- Connected, unconnected status:** Points to the 'CONNECTED' indicator at the top left.
- User Profile, may be reviewed and edited:** Points to the user profile icon at the top right.
- Search for item to display:** Points to the search icon in the top right.
- Opens menu to download and send Status reports:** Points to the download icon in the top right.
- Measured temperature, Demand and burner status:** Points to the 'Return' temperature display (82 °F).
- Rate limit, Hold, Lockout Status When red, link to alarm description:** Points to the 'NORMAL' status bar.
- Additional status information:** Points to the 'Main Data' section header.
- Navigation bar:** Points to the bottom navigation bar with icons for HOME, MENU, ADJUST, and TROUBLE.

Right Screenshot (Main Data Section):

- Measured temperature, Demand and burner status:** Points to the 'NORMAL' status bar.
- Additional status information:** Points to the 'Main Data' section header.

Main Data Table:

Item	Value
Boiler	ALTAC-136-02-N
DHW	95 °F
Setpoint	120 °F
Firing Rate	100 %
Status	Run (Modulate)
Demand Source	Domestic HW
Flue	131 °F
Setpoint Source	Domestic Setpoint
DHW Priority Count	2847 seconds

Controller Status: [Dropdown arrow]

Input/Output Status: [Dropdown arrow]

Navigation bar: HOME, MENU, ADJUST, TROUBLE

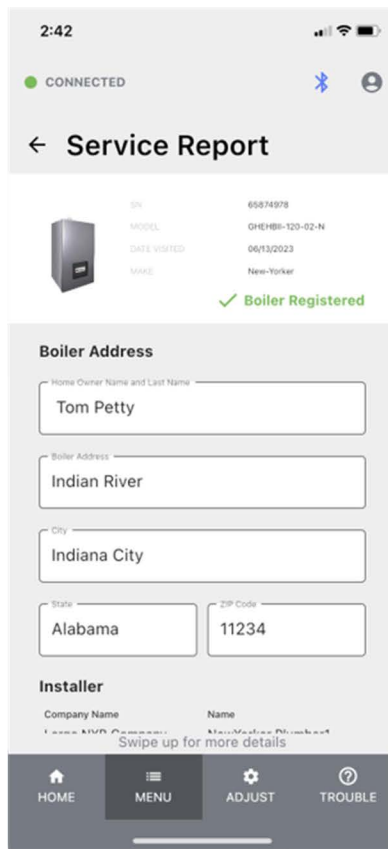
Monitoring (continued)

Remote Support

App offers reports, site photos and data logging to document boiler performance and aid remote support. Reports, site photos, and logs may be email and/or stored on devices as pdf or csv files. All files are archived at portal.

Status Report

Current boiler status, “snapshot”.



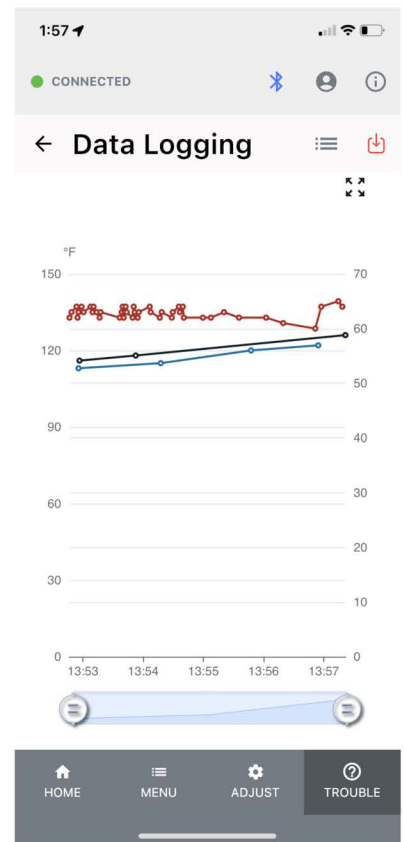
Service Report

Status, cycle & alarm history and actions taken.



Data Logging

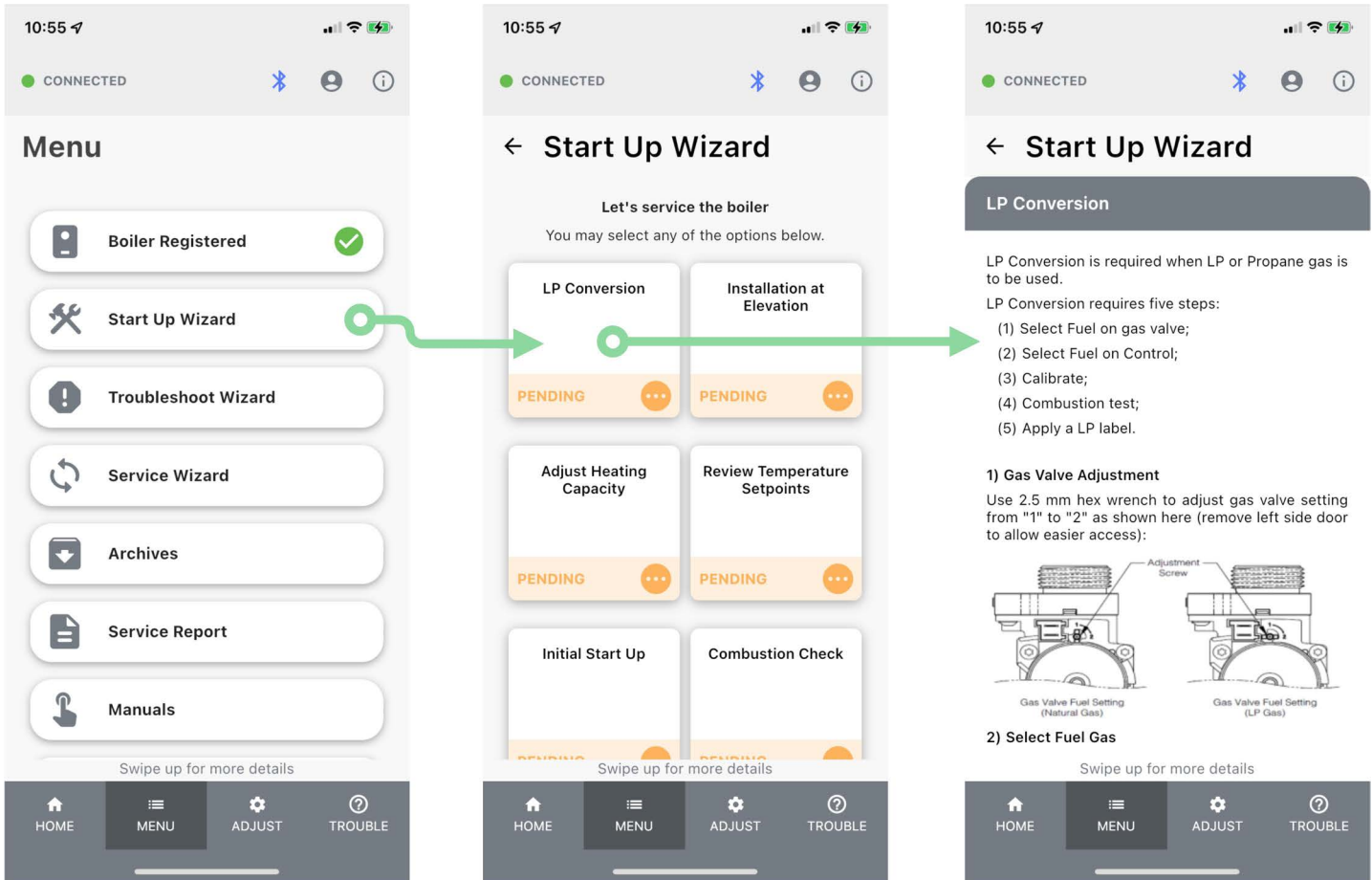
Data is sorted while Bluetooth adaptor is connected.



Commissioning/Setup

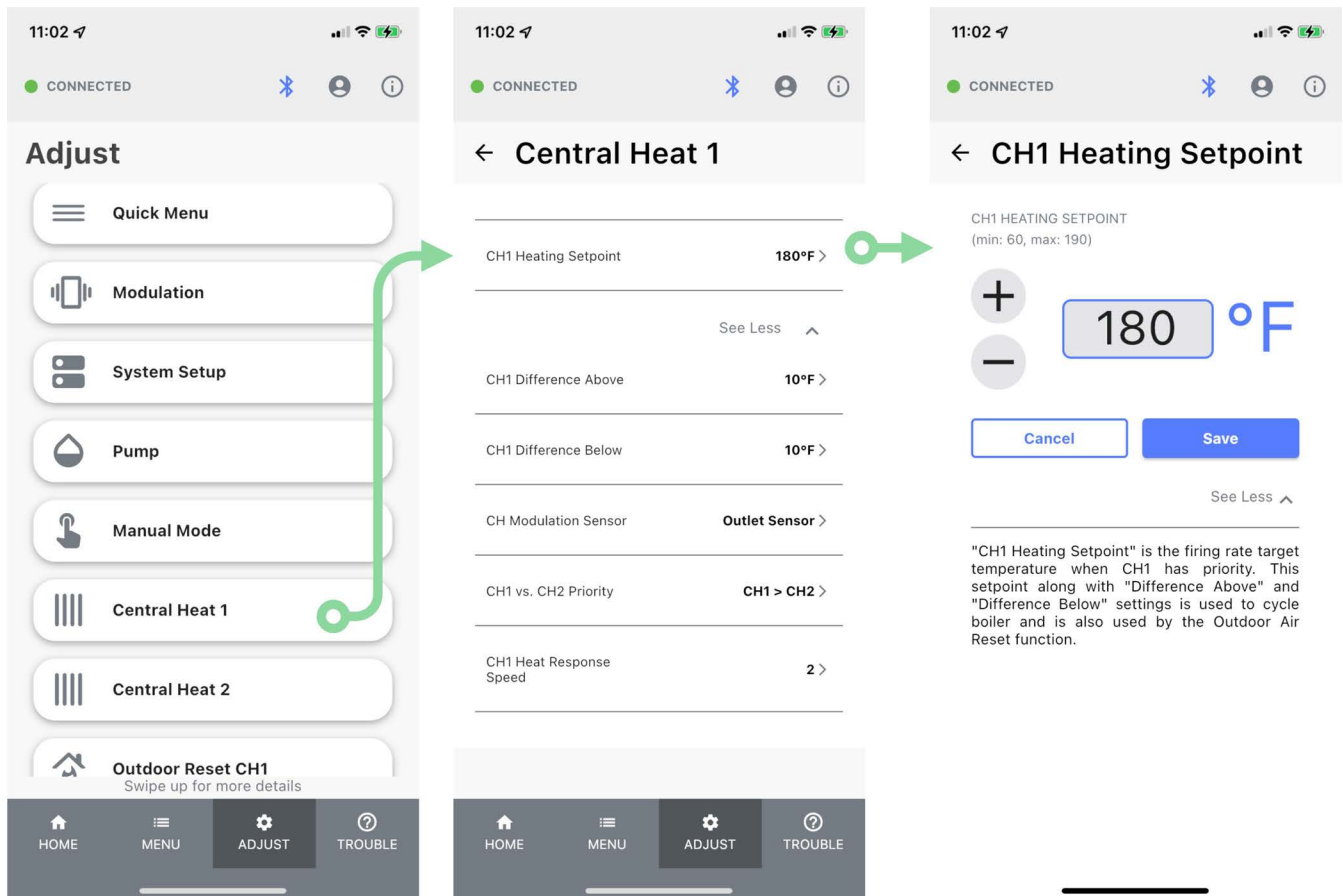
Start Up Wizard is provided to walk users through most common setup tasks.

Start-up Wizard collects instructions, status, and key parameter adjustment together to allow required actions to be as easy and successful as possible.



Commissioning/Setup (continued)

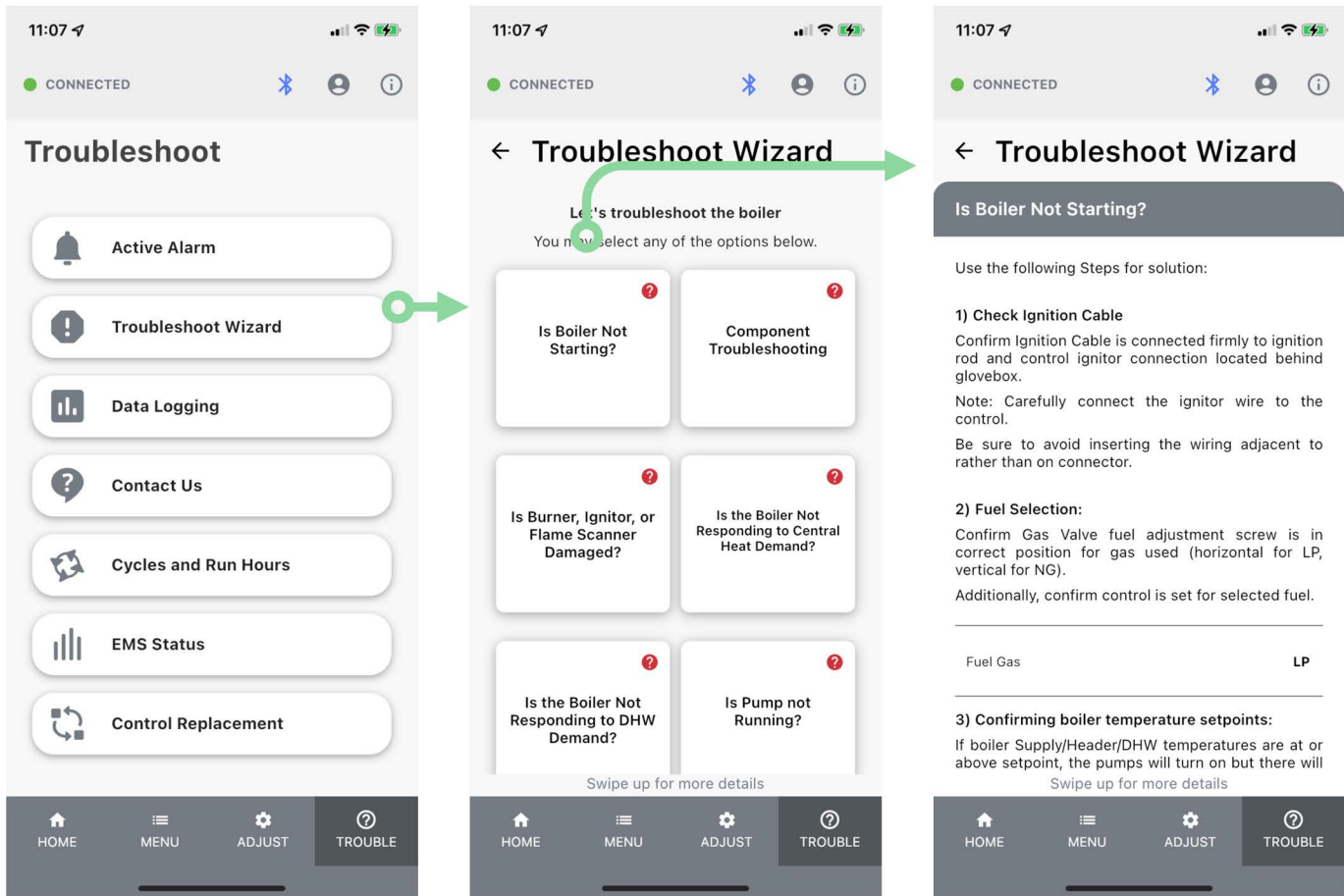
Adjust menus provide opportunity to adjust advanced settings. Each setting is provided with adjustable range and detailed explanation.



Troubleshooting

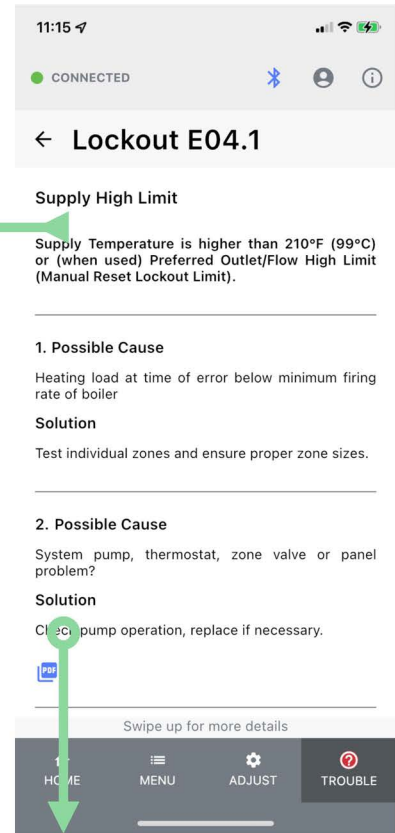
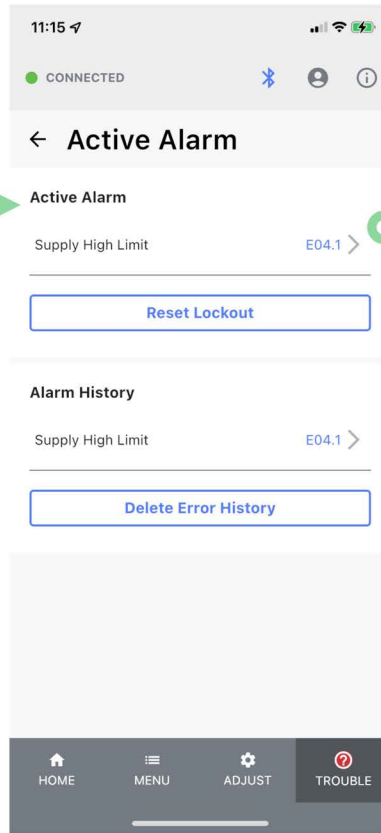
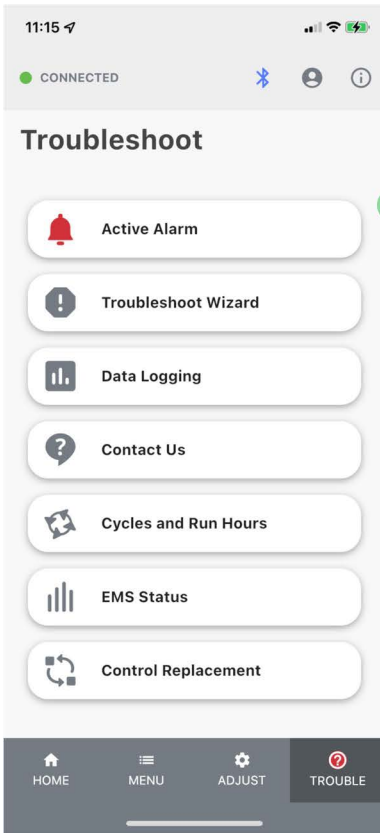
Troubleshooting Wizard is provided to walk users through solving common issues.

Troubleshooting Wizard collects instructions, status, and key parameter adjustment together to allow contractors to investigate efficiently, step by step.



Troubleshooting (continued)

Active Alarm provide detailed explanation, possible cause and solution to every alarm.



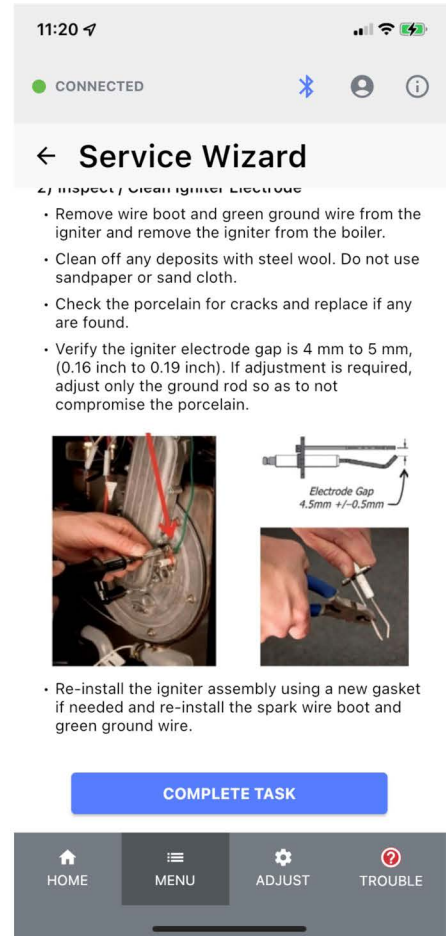
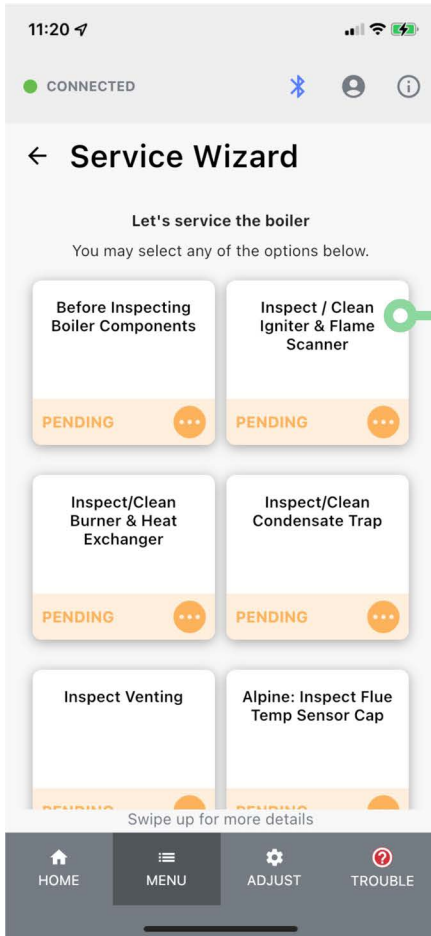
11:15

Swipe up for more details

Step	Troubleshooting Question	Actions	Conclusion
1	Is System pump demand ON?	Check Home Screen under Heat/Output Status to see if the boiler pump is ON.	If OFF provide a heat demand at 2. Confirms system output indicates "..." [Central Heat input is located on the low voltage terminal strip. Must have contact closure to enable pump]
2	Is system pump ON?	Check voltage and amperage at pump. Confirm prior to test that pump is not air bound.	If voltage and/or amperage are within specs and motor does not run replace pump. If voltage is normal and amperage is high pump may be stuck or have a bad capacitor. Replace pump. If system pump output shows "ON" and no voltage is present at pump go to step 3
3	Did pump fuse blow?	Remove power from boiler. Remove ignition cable from flame sensor and remove venter from right side of control door. Allow door to fully open, and remove four fasteners holding rear cover to control panel. Remove TS-5a Fuse (Pump Fuse is located to the far right side of the fuse block) and, using a multi-meter perform a continuity test.	If BLOWN replace fuse. Proceed to step 4. If NOT BLOWN go to step 5.
4	Did fuse blow again?	Turn power back on. Did fuse blow again? Remove power from boiler. Remove TS-5a Fuse and, using a multi-meter perform a continuity test.	If Fuse blows a second time disconnect all pumps and then check for short to ground. Reconnect 1 pump at a time to isolate which pump is causing the issue. Identify and correct fault. If NOT BLOWN go to step 5.
	Is there 120VAC at the fuse block?	Check 120 VAC at system pump	If VOLTAGE is present repair...

Service Wizard is provided to walk users through most common service tasks.

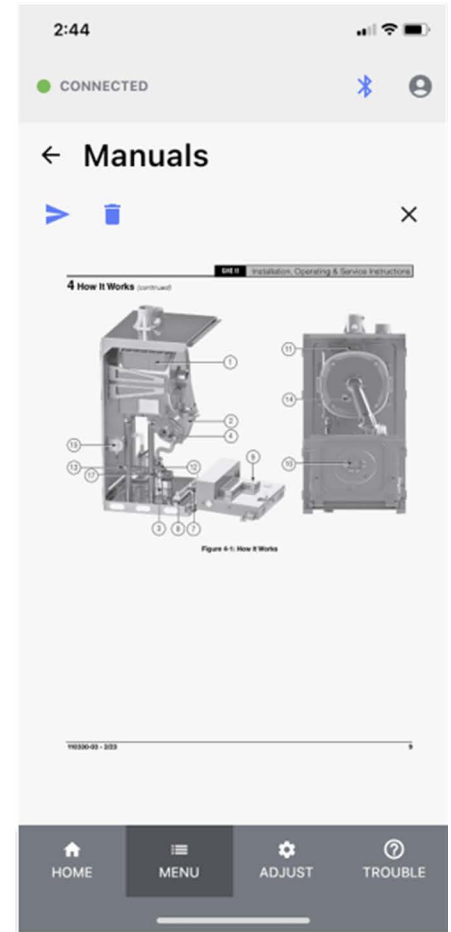
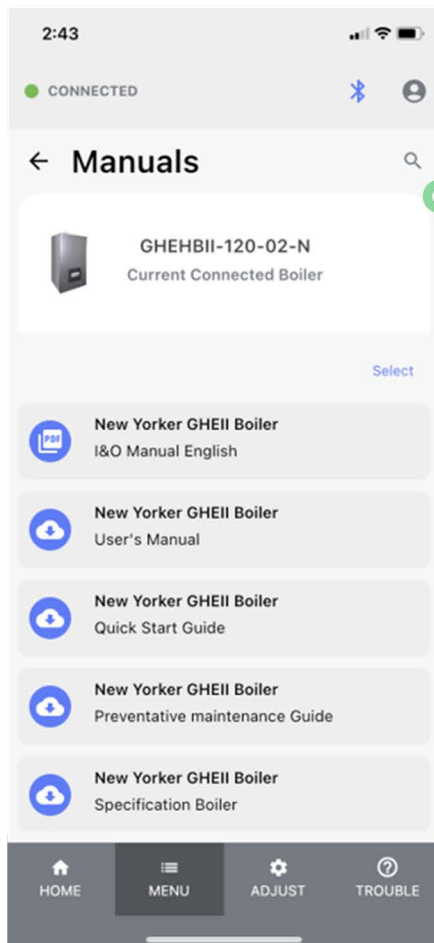
Service Wizard provides instructions to allow required actions to be as easy and successful completed.



Resources

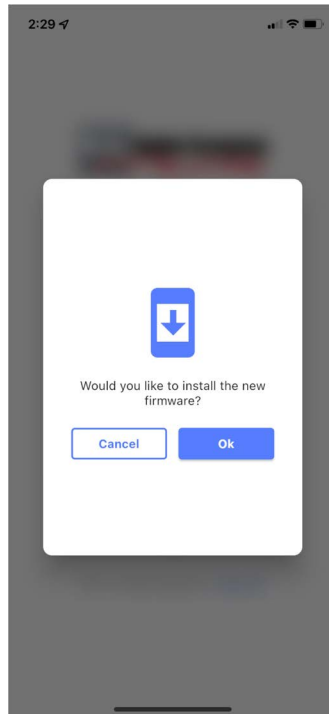
Manuals are provided to ensure the user always has complete and the latest information.

Note: Download the manual to ensure it is available when there is no cell service and to enable zooming.



Bluetooth Adaptor Update

When new Bluetooth Adaptor firmware versions are available, the user will be alerted with an option to download the new firmware. Select "Ok" and allow the firmware download to complete. After download is complete disconnect and then reconnect Bluetooth Adaptor power and close App and reopen once Bluetooth Adaptor LED is solid green.

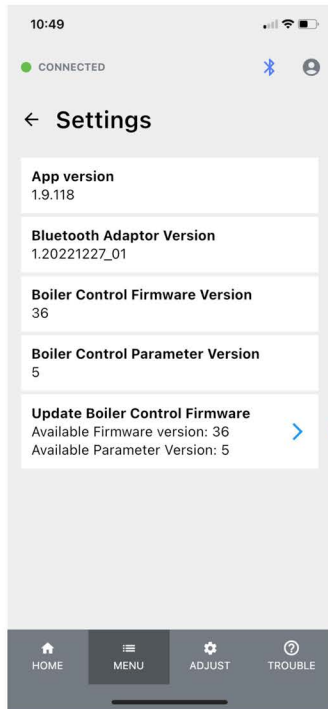


New Bluetooth Adaptor Firmware Update Indication

GHE II Control Updates

The latest GHE II Controller firmware and default parameters are made available to the App. When necessary GHE II Controller Firmware or default parameters may be downloaded in the field.

Select Settings on the MENU tab

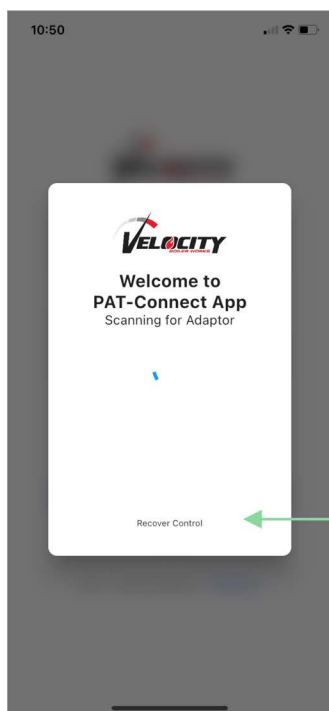
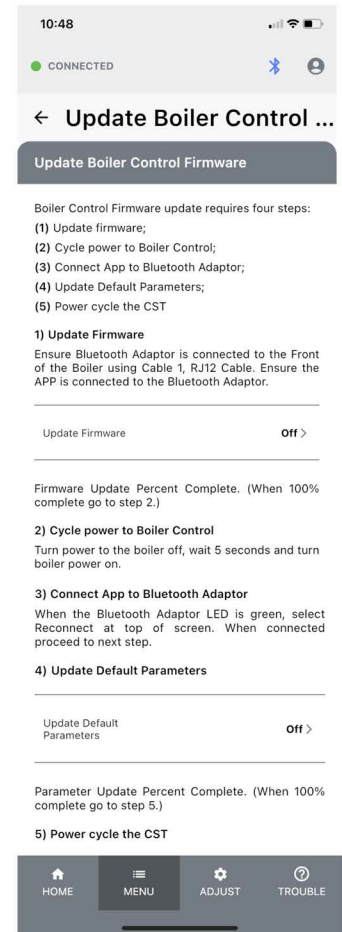


GHEII firmware and default parameter update

Use MENU to navigate to the Settings menu.

Only update the Boiler Control Firmware when the Available Firmware Version is higher.

Only update the Boiler Control Parameters when the Available Parameter Version is higher.



Recover Control

In the unlikely event of a Firmware download failure (local display is off and Bluetooth Adaptor LED is Red), the User may select, "Recover Control" and navigate to the Update Boiler Control Firmware function and re-do the firmware load procedure.

Appendix

Specifications

Power

24VDC via DC Barrel Jack:

- Power supply: AC 100-240V, 50/60Hz input, DC 24V 0.3A output

24VDC via RJ12:

- Power supply: DC 24V 0.04A input





24VAC via RJ45:

- Power supply: AC TBD input



Environmental and Regulatory:



- Hardware Version [HVIN]: E2
- Model: NYB-Connect
- Environmental protection: IP10 (Nema 1)
- Flammability: UL94-V0
- Working humidity range: 0-95% (non-condensing)
- Working temperature range: -50°F - 104°F (10°C to 40°C)

Bluetooth Adaptor Blink Codes - Initial Power Up

	LED	Description
	Off	No power connected
	Light Blue	Initializing
	Yellow	Device Firmware Upgrade (DFU) Mode is active (waiting for update file)
	Purple	DFU Mode is active (receiving update file)

Bluetooth Adaptor Blink Codes - Running Mode

	LED	Description (Shown in 1st 1/2 second)
Modbus Connection between Boiler to Adaptor Status		
	Green	Boiler to Adaptor Communication Detected
	Red	Boiler to Adaptor Communication NOT Detected

	LED	Description (Shown in 2nd 1/2 second)
Bluetooth Connection between Adaptor to Smart Device Status		
	Blue	Bluetooth Connection between Adaptor to Smart Device
	Off	No Bluetooth Connection between Adaptor to Smart Device

For example: "Green-Blue" Modbus and Bluetooth communicating.

Appendix (continued)

FCC Statement

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two 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.

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

Note: 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 the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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 receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Appendix (continued)

IC Statement

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique

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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

Appendix (continued)

Repair Parts

1. NYB-Connect Bluetooth Adaptor Kit-----NY Boiler P/N: 111667-01
NY-Connect Bluetooth Adaptor (Portable Tool, Connects NYB-Connect App and Portal to: GHEII);
Carry case, information card; CST Sage Controller J3 Terminals to RJ45 Interface Board (111640-01);
Cable 1, RJ12 Straight Cable; Cable 2, RJ45 Split Cable; Cable 3, RJ45 Straight Cable.
2. Cable 1, RJ12 Straight Cable-----Show Me Cables P/N: 15-302-003S
Standard RJ12 Line Cord, 24AWG, stranded copper conductors, 6 conductors, straight through, PVC jacket,
Silver, Standard Boot, 36-inch length.

Appendix (continued)

Troubleshooting Tips

Indication	Possible Cause	Corrective Action
App Will Not Accept New User Account	Cell signal not available.	App requires a cell signal to accept a new user profile. User can log in without cell signal after initial acceptance.
Bluetooth Adaptor LED is OFF	Cables not connected properly.	Sage Controller: Cable 2, connections to boiler are reverse. Switch RJ45 connections, see page 5. GHE II Controller: Cable 1 is not connected. Cable 1 is connected to the Bluetooth Adaptor center connection, should be to the right side connection, see page 5.
	Wrong Cable.	Cable 1, 2 and 3 must be "straight through" cables.
	Boiler is not powered.	Power up boiler.
Bluetooth Adaptor LED is flashing Red	Sage Control Fail to Connect.	Sage Slave Address is not set to 1, Panasonic Status screen should show "Boiler 1". If not, go to Panasonic display/Adjust Menu/Sequencer Slave and adjust Boiler Address to 1. Cycle power to Bluetooth adaptor. Wiring to Boiler RJ45 boiler connection are disconnected. To fix this use: "CST Sage J3 Terminals to RJ45 Interface Board", PN: 111640-01, see page 5.
	Failed Cable or connection.	Check cables and cable connections. Replace cables if necessary.
Erratic number updates or bad data	Bad connection.	Reboot Bluetooth Adaptor and open App after Bluetooth Adaptor LED has turned green.
App will not connect	Bad connection.	Reboot Bluetooth Adaptor and open App after Bluetooth Adaptor LED has turned green.
	More than one (1) Bluetooth Adaptor is powered.	App can only connect to one Bluetooth Adaptor. When more than one (1) are available the App will connect to neither.
	Failed to close & reopen App after connection to different Bluetooth Adaptor.	When two Bluetooth Adaptors are on site, close App and reopen when connecting to next Bluetooth Adaptor.
App will not connect to Sage Controller	Sage Controller greater than 10 years old.	Sage controllers older than 2012 (revision 1967, 3212 and 3220) are not compatible with the App.
	Sage Controller with multiple boilers in a peer-to-peer network.	When connecting boilers arranged in Sage Controller equipped Boiler peer-to-peer network the Sequencer Master must be disabled. To keep the Sequence Master enabled, connect the CST directly to the Sage Controller using "CST Sage J3 Terminals to RJ45 Interface Board", PN: 111640-01, (see page 5) and MB1 terminals. GHE II Controller does not have this issue.