

BC INNOVATE

Pellet Stove Wi-Fi Module Manual

V1.0.3

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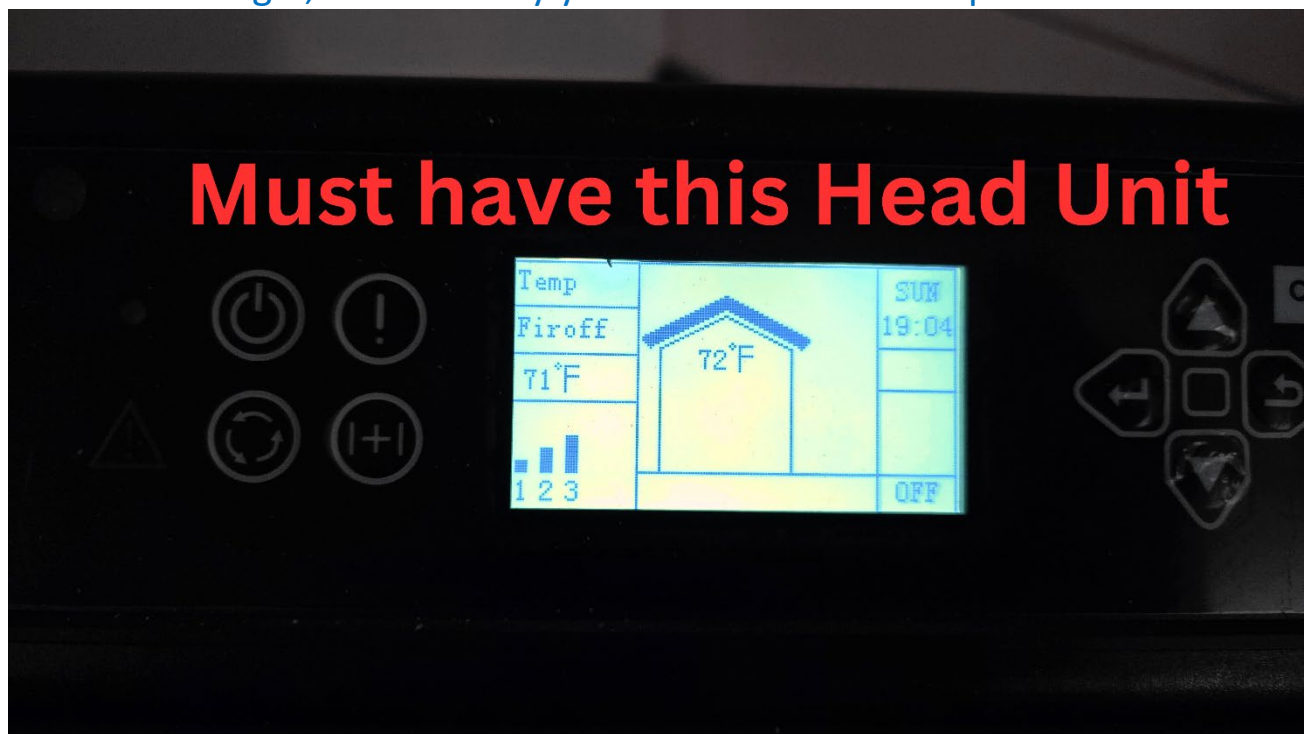
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Getting Started

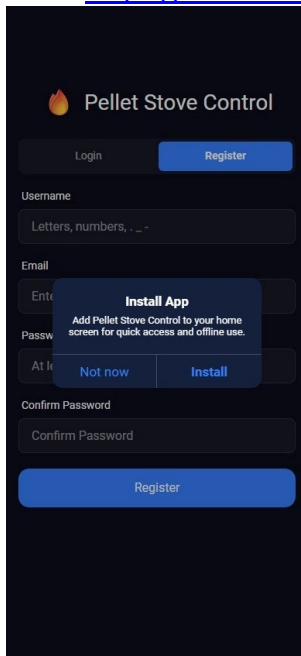
Before You begin, Please Verify you have the head unit pictured below.



Creating an account on the Web App

The Web App supports multiple stoves, but you will need a different account for each stove.

1. Go to <https://stove.bcinnovate.com>



- 2.
3. Enter in your username, email, and Password and Click Register. You will receive an email to verify your account.
4. Once verified you will be able to login.
5. You are now ready to setup your Wi-Fi Module on your stove

Setting up your Wi-Fi Module

Pellet Stove Wi-Fi Module overview

1. Communication port
2. RGB LED – Status
3. Programming USB port
4. Reset/Firmware Update button



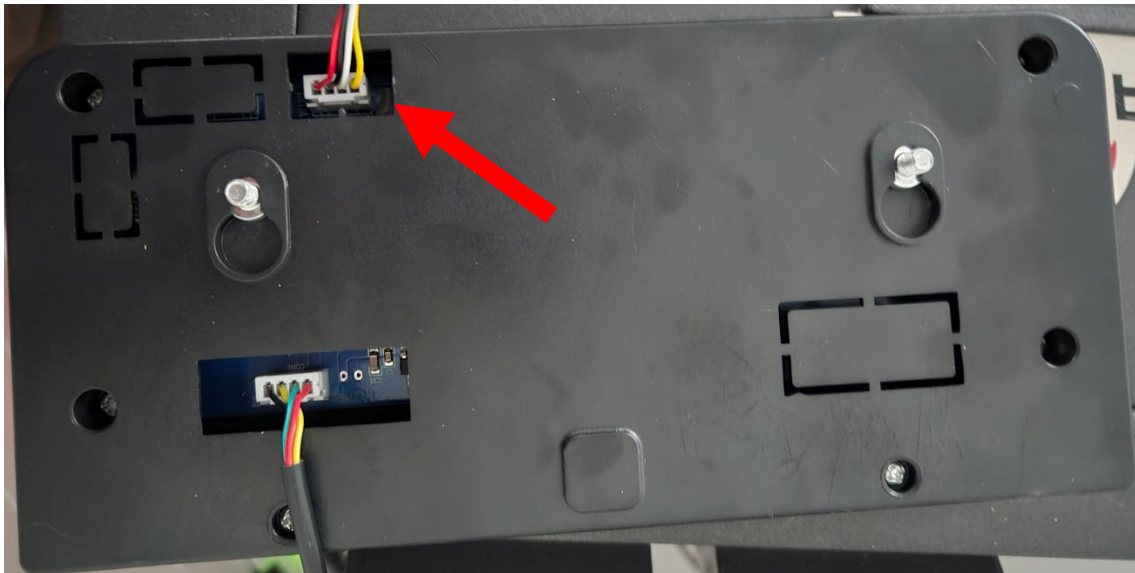
Condition	LED
Solid Green	Factory Reset
Blink Blue	Controller Needs Setup
Solid Blue	Wi-Fi has successfully Connected
Blink Magenta	Incorrect username or password – Module will reset to Setup
Blink Cyan	Stove is off -- Module not connected to Cloud Server
Solid Cyan	Stove is off -- Module is connected to Cloud Server
Blink Orange	Stove is on -- Module not connected to Cloud Server
Solid Orange	Stove is on – Module connected to Cloud Server
Blink Red	Stove has Error Code
Solid Yellow	Firmware Updating

Connecting your Pellet Stove Wifi Module to your Pellet Stove

1. Inspect the communication cable provided. It has 1 black connector and one white connected, one is 6 pin and the other is 4-pin.
2. Connect the 6-pin connector to the communication port of the Pellet Stove Wifi Module.
3. Please take note of connector orientation.

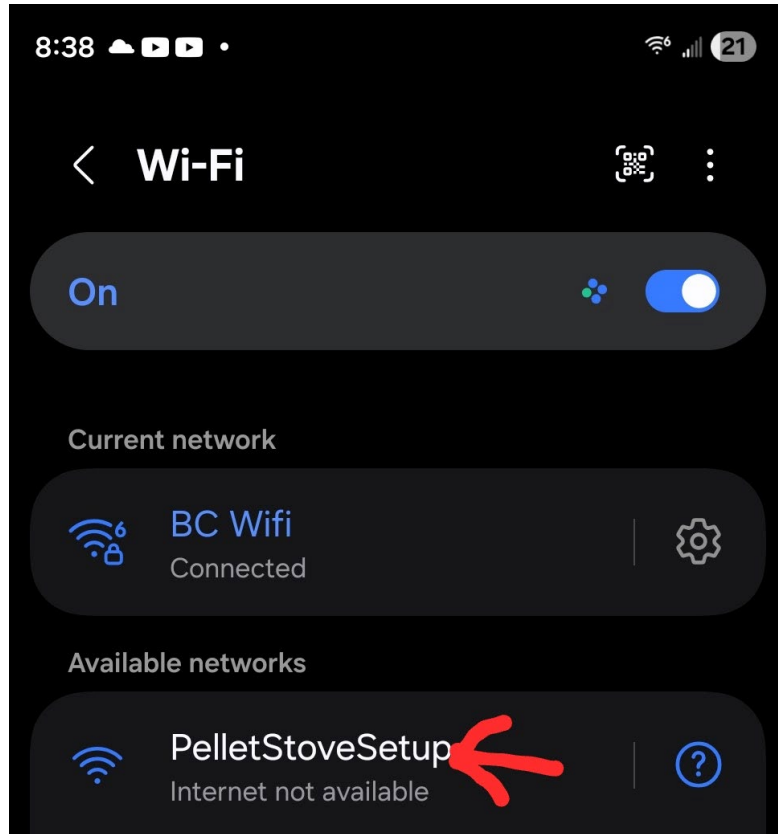


4. Connect the 4-pin connector to the Pellet Stove's Head Unit.
5. You will need to breakoff the small cover, you can use snips or break it off with a flat head screwdriver.

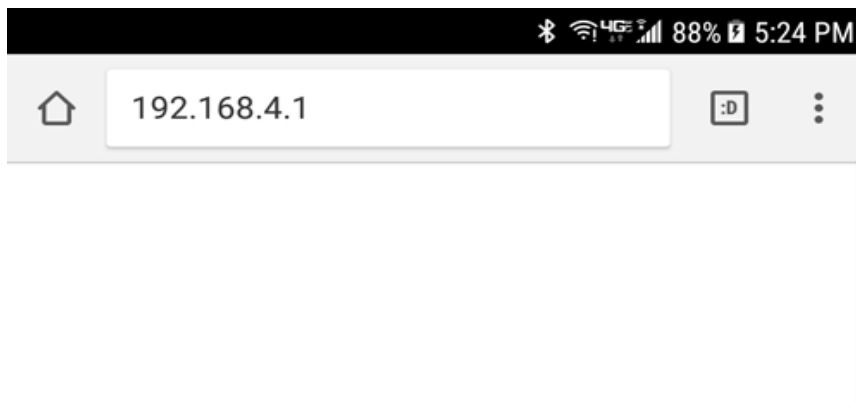


6. Your Pellet Stove Wifi Module will be blinking blue, indicating that you need to set it up.
7. To set up your unit, you will need to use your mobile phone. There is no app download required.
8. On your phone, scan your Wi-Fi networks and look for a network called "Pellet Stove Setup"

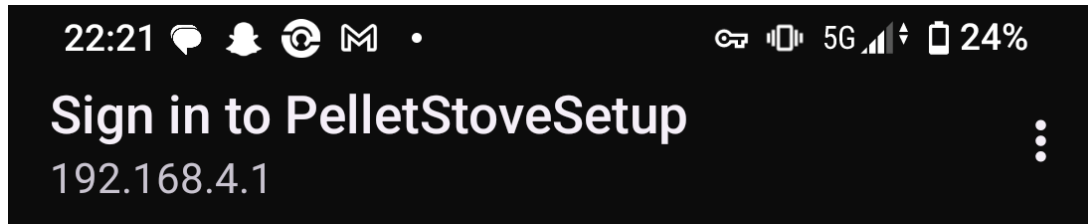
9. Connect to the network "PelletStoveSetup". There is no password required for this network.



10. Once connected, open the browser on your phone and go to 192.168.4.1 your phone may auto redirect you



11. Click the button "Configure Wifi"



PelletStoveSetup

WiFiManager

Configure WiFi

Configure WiFi (No Scan)

Info

Reset

12. Tap on your home Wi-Fi network and the SSID field will populate.

Wifi	🔒 100%
CMS	🔒 100%
BC Wifi	🔒 100%
Wifi_EXT	🔒 76%

SSID
password

AppUsername
AppPassword

save

[Scan](#)

13. Enter the password for your home network
14. Enter your username on the “App Username” field – This is your username setup in the app. **(Note: case sensitive)**
15. Enter your password on the “App Password” field – This is your password setup in the app. **(Note: case sensitive)**
16. Click the Save button
17. Your cloud Wi-Fi attachment will turn solid blue if the password for your home Wi-Fi is correct, If the password is incorrect, it will go back to blink blue, and you will need to start over at step 7.
18. It should turn Cyan if the stove is off and Orange if stove is on once it begins communicating with the Stove.

Using the Web App to Control your Stove

1. Open your web browser and go to: <https://stove.bcinnovate.com>
2. Login using your username and password you set up earlier.
3. You should now see the data from your pellet stove in the App and be able to set your mode and temp level.

Resetting your Pellet Stove Wi-Fi Controller to factory settings using Reset button.

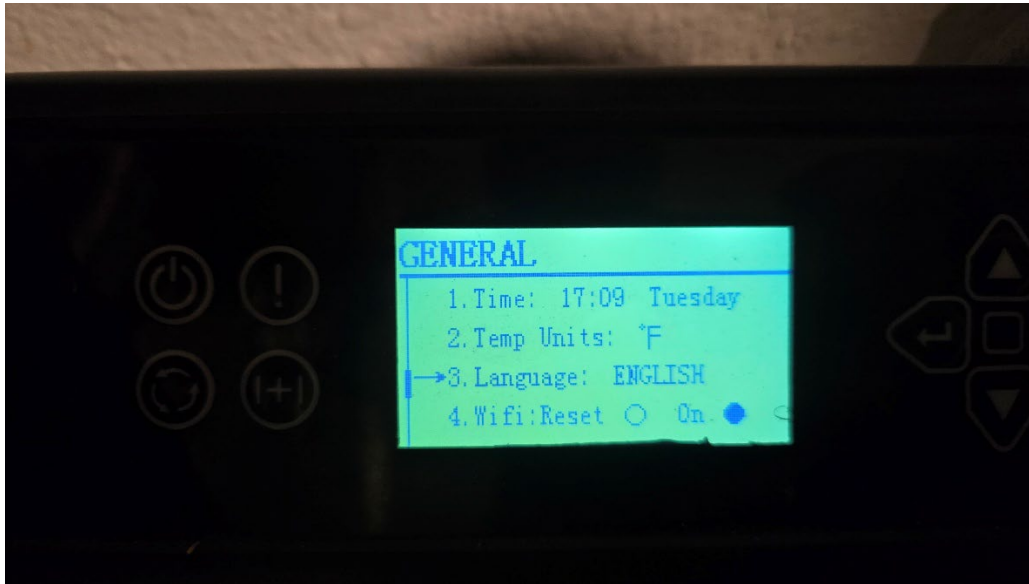
1. There are two ways to Reset the Unit to factory settings. First is using the physical reset button on the device.
2. Disconnect the cable from your Pellet Stove Wifi Module
3. Insert a paper clip on the side of the pinhole (marked 4 on the picture) located on the side of the unit.



4. Connect the cable while holding down the button
5. The unit will turn to solid green, and it will start the process of reverting back to factory settings.
6. Release the button and remove the paper clip from the pinhole.
7. This process takes about 30 seconds.
8. Once completed, the unit will start blinking blue again and you are ready to set up again.

Resetting your Pellet Stove Wi-Fi Controller to factory settings from the Pellet Stove Head Unit.

1. Go into the settings menu on the pellet stove.
2. Then navigate to general and scroll down to where it says Wi-Fi Reset
3. Press enter on the Stove when on Wi-Fi Reset and Turn on Wi-Fi Reset.
4. This will trigger the Wi-Fi Module to Factor Reset.



Updating the firmware of your Pellet Stove Wi-Fi Controller

1. The firmware update can only be completed if you have a solid Cyan, Orange, or Blue indicating that the unit is connected to your home Wi-Fi network.
2. The firmware is downloaded from the internet, so it can only be performed if the module is online.
3. Insert a paper clip on the side of the pinhole (marked 4 on the picture) located on the side of the unit.



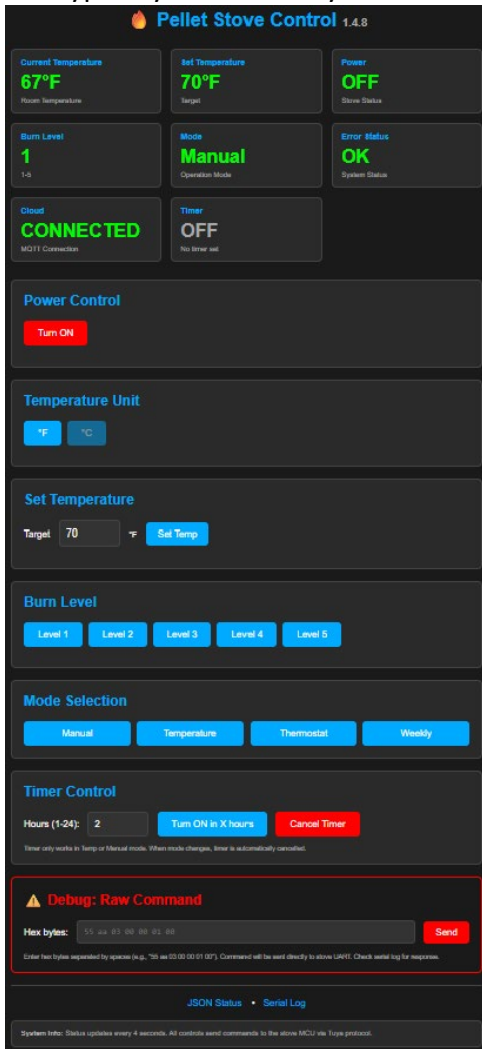
4. The unit will turn to solid yellow.
5. It will start downloading the firmware from the internet and perform the firmware update.
6. When it is completed, it will reboot with the new firmware. Your settings should be preserved with the firmware update.

Local Control

The Wi-Fi Module has an internal webpage for those who only want local control of the device, you

can leave the Username and Password blank during setup and the device will never attempt to reach out to the cloud server.

To use the internal webpage go to any web browser and enter in the IP address of the device. You can typically find this on your router.



Integrations

Amazon Alexa Integration

There is an Amazon Alexa Skill called “Pellet Stove Control – BC”



Pellet Stove Control BC

by bcinnovate.com
Rated: Guidance Suggested
☆☆☆☆☆ 0

Free to Enable

“Turn on the pellet stove”

“Set the pellet stove mode to Manual”

“What’s the temperature?
What’s the set temperature on the pellet stove?”

Once you enable this skill it will ask you to sign in. Enter your username and password you set up in the App, and it will enable you to control your device from the Alexa App or via Voice Control.

What you can do:

- Turn the stove on or off
- Set the target temperature (e.g., “Set the pellet stove to 70 degrees”)
- Ask for the current room temperature
- Ask for the set temperature
- Change the operation mode (Manual, Temp, Thermostat, Weekly)
- Adjust the burn level from 1 to 5

Before using the skill:

1. Have your BC Pellet Stove app credentials ready.
2. Enable the skill in the Alexa app.
3. Link your account with your Pellet Stove app username and password.
4. Say “Alexa, discover my devices” to find your stove.

After setting up, you can say things like:

- “Alexa, turn on the pellet stove”
- “Alexa, set the pellet stove to 72 degrees”
- “Alexa, what’s the temperature?”
- “Alexa, set the pellet stove to Manual mode”
- “Alexa, set the burn level to 3 on the pellet stove”

Home Assistant Integration

There is a custom hacs repository to easily add your pellet stove to your home assistant dashboard. Follow the instructions below to setup.

1. Open Home Assistant → Go to HACS → Integrations tab → Click the ⋮ (three dots) in the top right → Custom repositories.
2. Paste this URL: <https://github.com/brennyn21/ha-bc-pellet-stove>
Select Integration as the category → Click Add.
3. Search for "BC Pellet Stove" in HACS, click the three dots → Download (or Install). Restart Home Assistant when prompted
4. Go to Settings → Devices & Services → + Add Integration → Search for BC Pellet Stove.
5. Enter the stove's local IP address. That's it — full local control!

Trouble Shooting

If you have any issues with the device please follow the steps below. If it still can't resolve the issue send us an email and we will be happy to help.

1. Issue - Device Won't Power On / No Led Lights appear on module.
 - a. Resolution – Inspect the communication cable from the Stove to the Wifi Module and check for any loose Pins.
 - b. If cable appears damaged reach send us an email for a replacement
2. Issue - App Shows Wifi Module Disconnected
 - a. If Wifi Module is on check the Status LED, if it's blinking Magenta, Blue, Cyan, or Orange, it is not connected to the cloud server
 - b. Please refer to the LED Chart to resolve connection issues.
 - c. If it's blinking Cyan or Orange, it may just take a few minutes to connect to the cloud

- serve so please be patient.
- d. Blinking Magenta indicated an issue with your App Credentials – the device will automatically reset after some time.
 - e. Blinking Blue means the Module still needs setup.
3. Issue - Device is on, but isn't communicating with stove (Solid Blue LED)
- a. Inspect the cable to verify all pins seem to be pushed into the connector all the way.
 - b. Check and make sure Wi-Fi is turned on under the stove's settings.

Support

Please contact me at the email address below with any questions or comments.
support@bcinnovate