king
Smart Heating Solutions

Mon
12:08 AM

Set To 77

Schedule

hoot
Smarter Comfort Control

WIFI Thermostat
Installation Manual

INSTALLATION AND MAINTENANCE

king

hoot
Smarter Comfort Control

Model Numbers:

K901-B / K901-W

K902-B / K902-W

⚠ **DANGER** ⚠

ELECTRIC SHOCK OR FIRE HAZARD

READ ALL WIRE SIZING, VOLTAGE REQUIREMENTS AND SAFETY DATA TO AVOID PROPERTY DAMAGE AND PERSONAL INJURY

Specifications:

Thermostat is suitable for electric heating systems.

Power Supply: K901-B / K901-W: 120/208/240 VAC

K902-B / K902-W: 120/208/240 VAC

Maximum Power: 1920W @ 120VAC (16A)

3328W @ 208VAC (16A)

3840W @ 240VAC (16A)

Power Consumption: 7VA

Temperature Display Range: 14°F-122°F

Temperature Display Resolution: 1°F

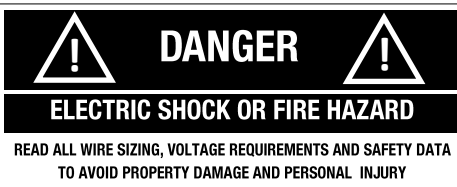**Temperature Control Range:** 40°F-95°F

Temperature Adjustment Scale: 1°F

Selectable Switching Differential: 1°F~4°F (Default 1°F)

Anti-Freeze Protection: 40°F
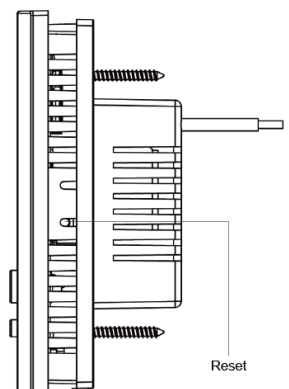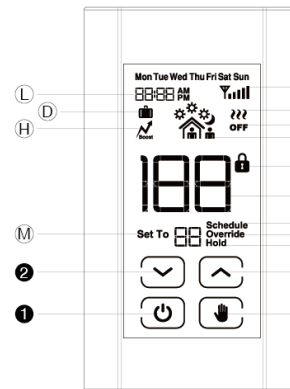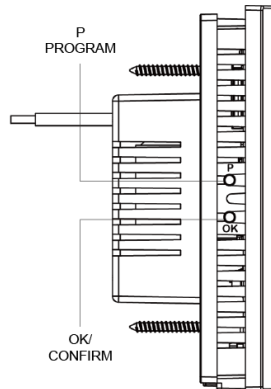
Temperature Sensor: NTC 10K Ohm @ 77°F

Listing: c ETL us

⚠ **WARNING** ⚠

READ CAREFULLY – *These instructions will help prevent difficulties that might arise during thermostat installation. Studying the instructions first may save considerable time and money later. Observing the following procedures will keep installation time to a minimum. Save these instructions for future use.*

A. Period Indicator
B. Standby Indicator
C. Key Lock Indicator
D. Vacation Indicator
E. Temperature Indicator
F. Heating ON Indicator
G. Programming & Time Indicator
H. Boost Indicator
I. WIFI signal Strength Indicator
J. Hold Indicator
K. Override
L. Time Display
M. Set Temperature

1. Standby Button
2. Down Button
3. Hold Button
4. Up Button

Hoot WIFI App

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WIRING INSTRUCTIONS

<div>

⚠️ **DANGER** ⚠️

ELECTRIC SHOCK OR FIRE HAZARD

READ ALL WIRE SIZING, VOLTAGE REQUIREMENTS AND SAFETY DATA
TO AVOID PROPERTY DAMAGE AND PERSONAL INJURY

</div>

The installation of the thermostat must comply with the applicable local and/or national electrical code and utility requirements. This installation should be performed by a qualified electrician where required by law. Ensure that all wiring connections to the thermostat are correct and tight to prevent electrical shorts. Use the appropriate wire to meet local and national electrical codes for rated power consumption.

INSTALLATION AND WIRING INSTRUCTIONS

Warning: Turn OFF the power at the circuit breaker before Installing. Installation should be performed by a qualified electrician.
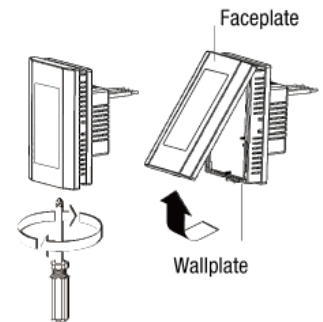
Refer to thermostat and heater load specifications before installation of the thermostat to see if it can handle the amp load. The maximum this thermostat can run is 3840 Watts at 240 Volts, 3328 Watts at 208 Volts, or 1920 Watts at 120Volts.
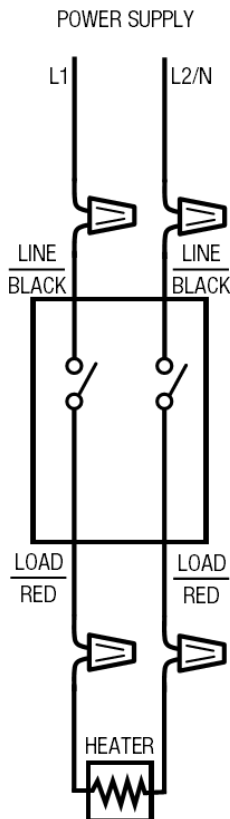
WIRING INSTRUCTIONS

Caution: Turn off power at the circuit breaker before performing any work on the electrical connections. None of the electrical connections must be live until the installation has been completed and the housing is closed. Only a qualified electrician or authorized technician are permitted to open the terminal box.
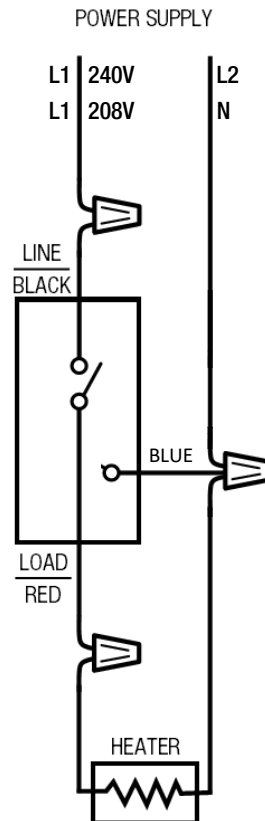
Wiring requires a Phillips screwdriver

1. Disconnect power supply to prevent electrical shock or damage to the product.

2. Run line voltage wiring to the location of thermostat.

3. Connect output terminals to heating system in accordance with instructions from the heating system.

4. Make sure your HOOT thermostat is COMPLETELY RECEDED into the metal junction box in the wall and NO WIRES SHOULD BE EXPOSED outside the metal or plastic junction box.

K902-B / K902-W wiring diagram:

K901-B / K901-W wiring diagram:

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DOWNLOAD APP

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Smarter Comfort Control

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K901-B / K901-W
K902-B / K902-W

⚠ **DANGER** ⚠

ELECTRIC SHOCK OR FIRE HAZARD

READ ALL WIRE SIZING, VOLTAGE REQUIREMENTS AND SAFETY DATA
TO AVOID PROPERTY DAMAGE AND PERSONAL INJURY

Smartphone App Installation

Downloading Hoot WIFI App for iPhone and iPad

In order for Hoot WIFI to work with your iOS device, download and install the APP from the App Store:

Search for "Hoot WIFI" by King.

Downloading Hoot WIFI App for Android Devices

In order for Hoot WIFI to work with an Android device, download and install the APP from the Google Play Store:

Search for "Hoot WIFI" by King.

NEED HELP?

We are here for you.

Visit www.king-electric.com/hoot-wifi-support for tech support and user information.

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REGISTRATION & INITIAL SETUP

Launch WiFi Application

1. Find the "Hoot WIFI" on your iOS/Android device.

2. Launch the app.

Registration Process

A. If you have already registered, click "**Log in**" and enter the username and password.
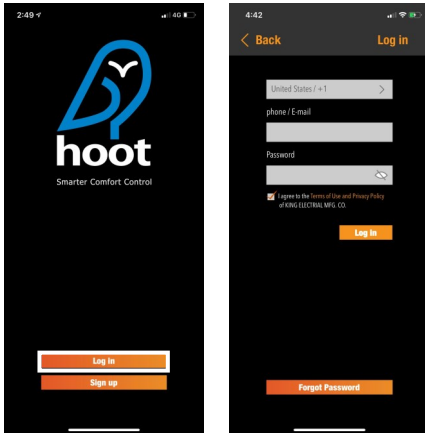
B. If accessing the first time, click "**Sign up**" to start the process. Enter either a valid email address or cell phone number to create the account.
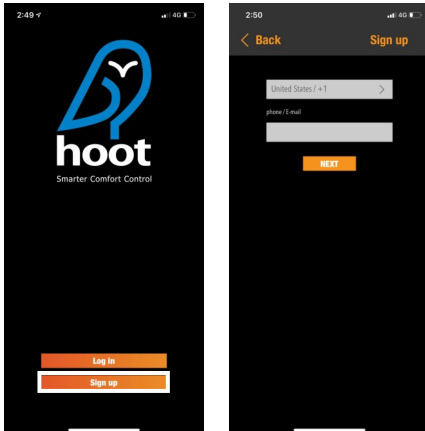

C. You will receive either a Email or SMS Message with a verification code. Enter that code in the app and set your password.
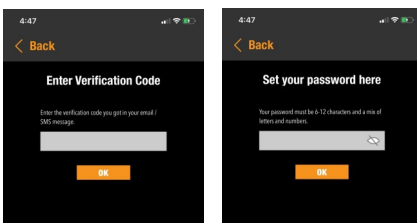
D. Click Add Device

1. Make sure the device has been already installed and powered up.

2. Enter Pairing Mode: Signal icon must be flashing QUICKLY to pair device. Press and hold POWER and OK buttons for 10 seconds to start pairing process.

3. Select a 2.4GHz WIFI network (5GHz WIFI is not supported)

4. Enter the WIFI password to finalize pairing.
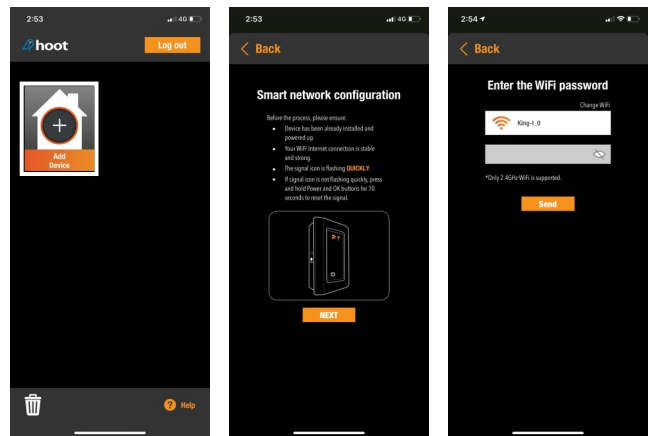
E. The Hoot device will be appeared after pairing.
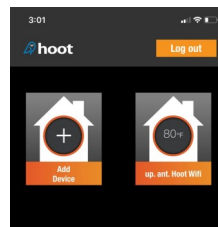
F. If there is an Error during the pairing process, refer to the below Troubleshooting guide to resolve or visit https://king-electric.com/hoot-wifi-support or Help

1. Check WiFi Signal is strong and stable and other devices in your home are communicating to the internet via the WiFi network.

2. Check WiFi Password is correct and try again

3. This thermostat may be bound to another user's account. If this is a shared device, to gain access contact the master user and request the device be shared with your user account.
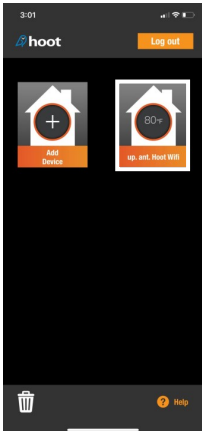
APP PROGRAMMING HEATING SCHEDULE

Launch Application

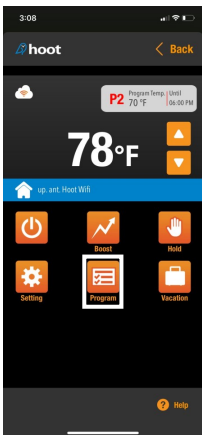1. Open the "Hoot WIFI" Mobile app on your iOS or Android device.

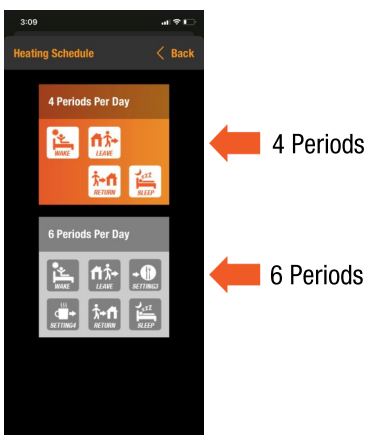2. Select the thermostat you would like to program.
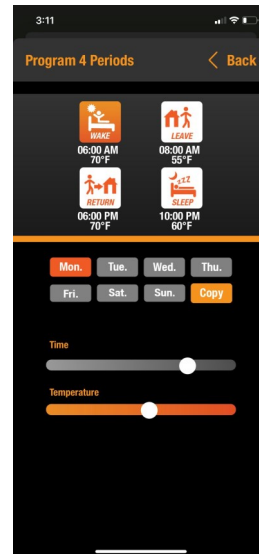
Programming the Thermostat
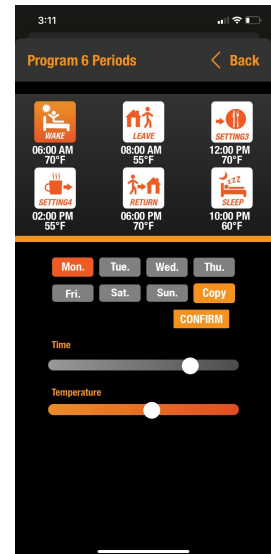
Select the Program icon to begin the program configuration

You can choose to program either 4 or 6 periods per day.
Select whichever option works better with your daily schedule.

← 4 Periods

← 6 Periods

4 Periods Per Day (Default)   **6 Periods Per Day**

Copying Program Feature

Copy is a feature of the Hoot WIFI app to allow users to easily copy and paste settings between the days. The Copy command in the lower right-hand corner.

Select the period to configure

Step 1: Select the day of the week that you wish to copy the setting from:

Mon.	Tue.	Wed.	Thu.
Fri.	Sat.	Sun.	Copy
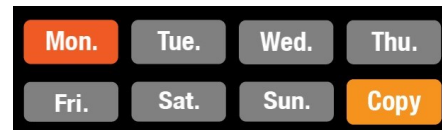
Step 2: Press the Copy icon

Step 3: Select the days of the week you wish to copy the settings to:
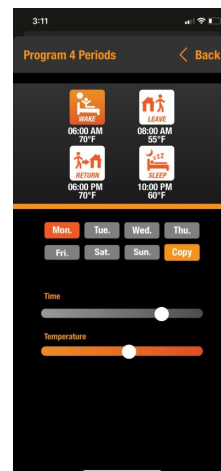
Step 4: Select CONFIRM to save changes to thermostat or press < Back to exit.

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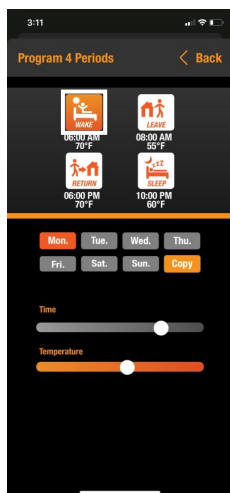
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APP PROGRAMMING HEATING SCHEDULE

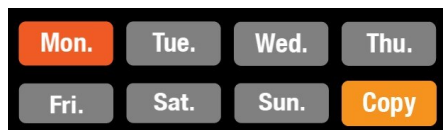## Programming your weekly schedule

Option 1

4 Periods Per Day Configuration

- Wake
- Return
- Leave
- Sleep

Select the period to configure

Step 1: Select the day of the week

Step 2: Select the start time for the period by moving the slider

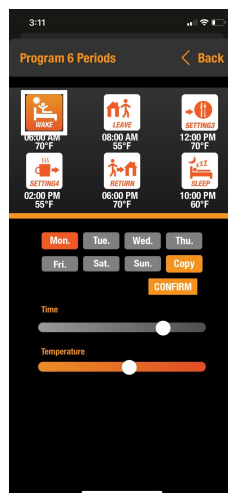Step 3: Select the temperature of the period by moving the slider

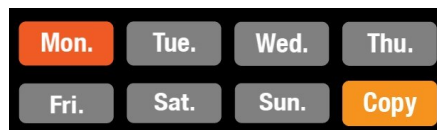- Press **CONFIRM** to save the changes to the thermostat, or press cancel to abort.
- Press **< Back** to exit

Option 2

6 Periods Pear Day Configuration

- Wake
- Afternoon Tea
- Leave
- Return
- Lunch
- Sleep

Select the period to configure

Step 1: Select the day of the week

Step 2: Select the start time of the period by moving the slider

Step 3: Select the temperature of the period by moving the slider

- Press **CONFIRM** to save the changes to the thermostat, or press cancel to abort.
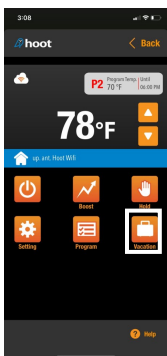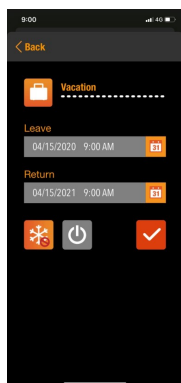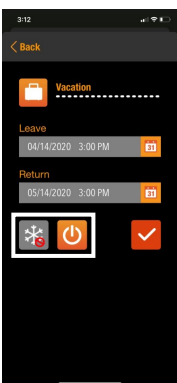- Press **< Back** to exit

APP SETUP AND SETTINGS

Vacation Mode

This thermostat offers a vacation setting where you can schedule in advance, days you are out of the house. Hoot can be set to turn off during this period or run in anti-freeze mode.

Step 1: Select the Vacation Mode icon

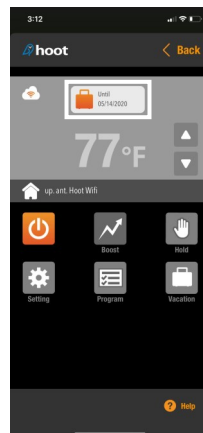Step 2: Select if you wish to run anti-freeze ❄ or Power OFF ⏻

Note:
- Anti-freeze mode ❄ offers below 40°F freeze protection . This means the system is still on and when the room temperature drops below 40°F, the heater will turn on to provide freeze protection heating.
- Power Off mode ⏻ offers complete system shutdown.

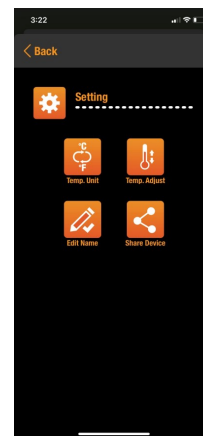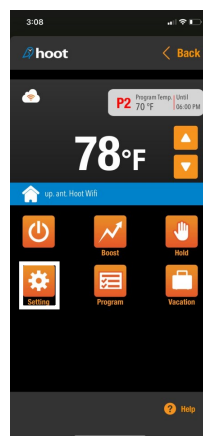Step 3: Select the calendar icon to set vacation start/end time & date.
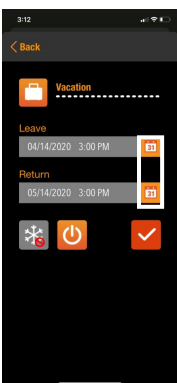
Note: End date must be later than the start date.

Step 4: Select ✓ to save changes to thermostat or press ‹ Back to exit.

Step 5: Pressing the top Vacation icon will cancel the Vacation function and return to programmed schedules.

Settings Mode

Settings Mode allows you to change the following:
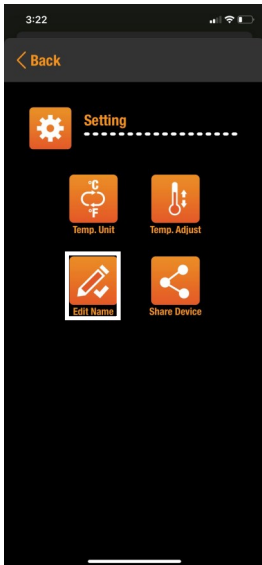- Change the name of the thermostat
- Adjusting Temperature Compensation
- Temperature scale change
- Share Device

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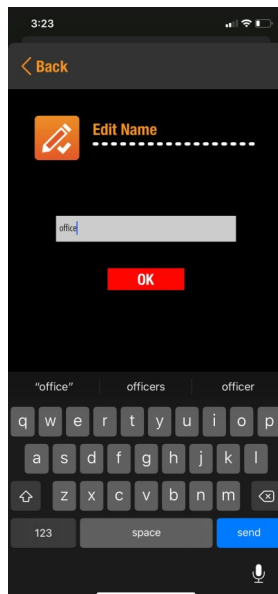
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APP PRODUCT SETUP AND SETTINGS

Name Your Thermostat

1. Select (Edit Name) icon

2. Rename the thermostat with the name you prefer.
3. Enter the new name for the thermostat in the text box.
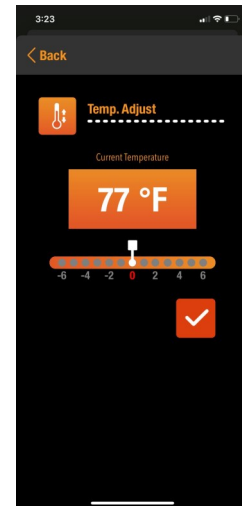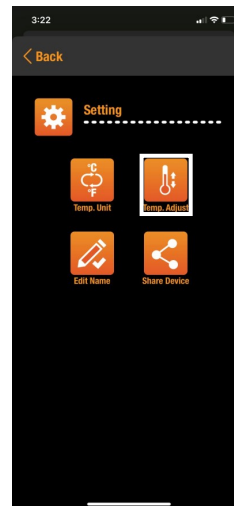

5. Select **OK** to save changes to thermostat or press **< Back** to exit.

Temperature Compensation of the Thermostat

If the temperature reading is higher or lower than you prefer, you can adjust the ambient temperature reading of your Thermostat. The Offset value that you set will be added or subtracted from the Hoot's ambient temperature reading.
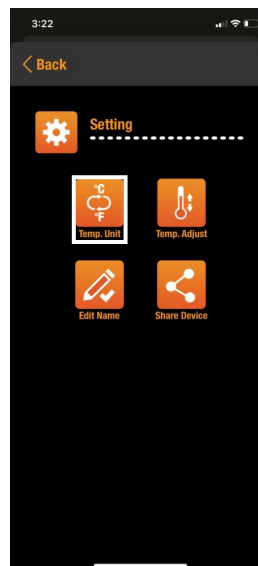
1. Select (Temp. Adjust) icon below.
2. Select how many degrees you wish to compensate against by sliding the white slider in the following screen.

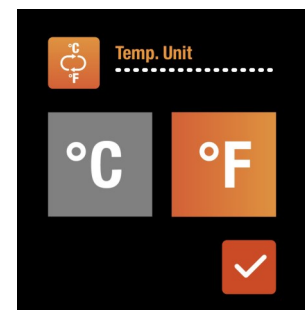3. Select ☑ to save changes to thermostat or press **< Back** to exit.

Temperature Scale (°F / °C) of the Thermostat

1. Select (Temp. Unit) icon

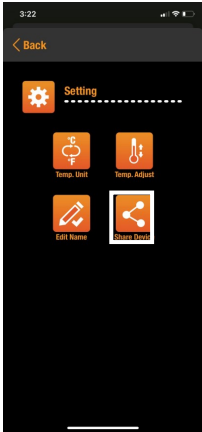2. Tap °F to change to Fahrenheit or tap °C to change to Celsius

3. Select ☑ to save changes to thermostat or press to exit.

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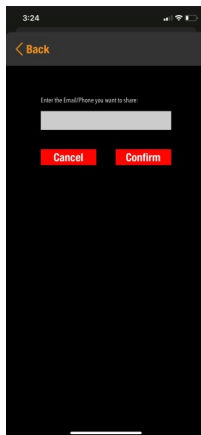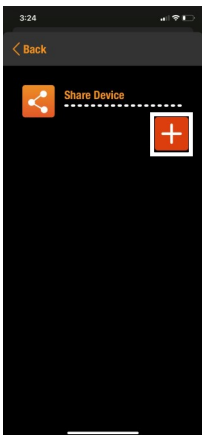
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APP PRODUCT SETUP AND SETTINGS
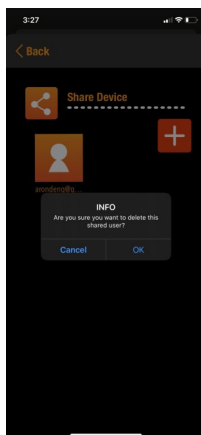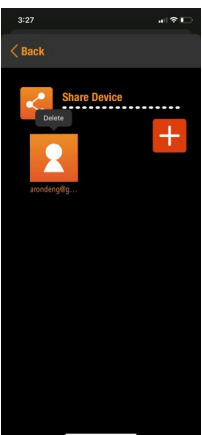
Share Thermostat

1. Select the Share Device icon below to grant access to others.

2. Click the **[+ icon]** to add other account

3. To create share thermostat, enter the Hoot account holder's email address you would like to share with. Note: The user must first create a Hoot WIFI account.

4. To delete user, press and hold for 2 seconds and the below message appears. Press **OK** to delete.

Boost Mode

Boost mode allows user to maintain the current setting and bypass the scheduled program for us to 3 hours. The thermostat will return to its regular schedule programming after the boost time has expired.

1. Select the Boost icon below

2. Select how many hours you wish to boost
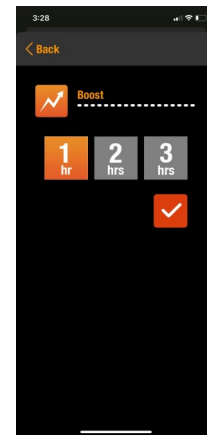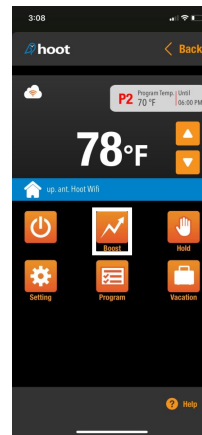
3. Select ☑ to save changes to thermostat or press ‹ Back to exit.

4. Verify Boost Mode is now active, showing the following icon.

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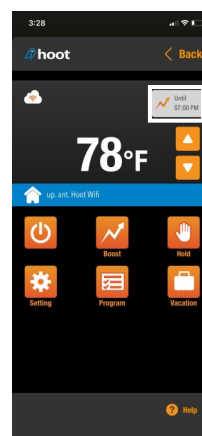
APP PRODUCT SETUP AND SETTINGS

Temporary Override

Override mode allows you to temporarily adjust the set point to a desired temperature, until the next scheduled time period begins.

1. Press ▲ or ▼ key to set the desired temperature

2. Override Mode is active when showing the following icon.

3. Press on the top Override icon, to cancel the Override function and return to programmed schedule.

Permanent Hold Mode

Holds thermostat a desired set point permanently until canceled.

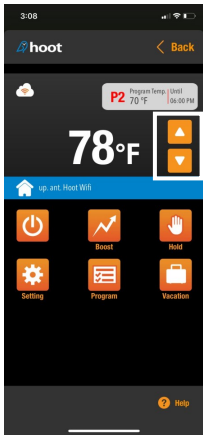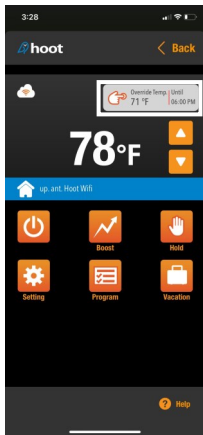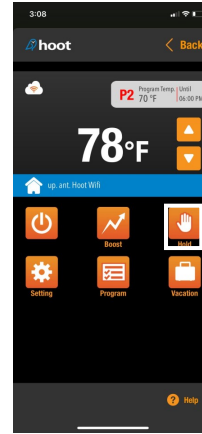1. Selecting the Hold icon will show the following screen. Tapping the ▲ or ▼ button adjusts temperature set point.

2. Select ✓ to save changes or press ‹ Back to exit.

3. Hold Mode is active when the following icon is displayed. Press on the top Hold icon, to cancel the Hold function and return to programmed schedule.
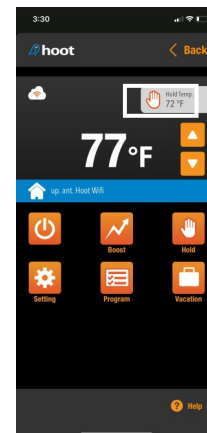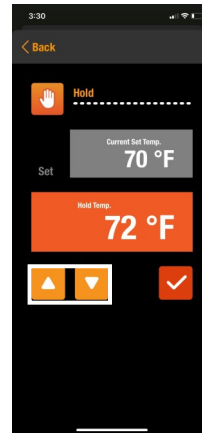
Rebooting Hoot WIFI

1. In case Hoot WIFI is not functioning correctly, you can reboot the unit to see if this improves the problem.

2. Locate the Reset button on the right side of the unit

3. Lightly press button with a paper clip or similar blunt object until the unit powers off and powers back on the reset.

Factory Resetting Hoot WIFI

To Reset Hoot back to factory default settings & erase all user data and remove from an account,

1. Press & Hold the ⏻ + ︿ button for 5 seconds until rSt (RST) flashes on the upper left corner of the display.

2. Unit has been unbound from an account and reset to default.

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SETTINGS ON THERMOSTAT

A. Period Indicator
B. Standby Indicator
C. Key Lock Indicator
D. Vacation Indicator
E. Temperature Indicator
F. Heating ON Indicator
G. Programming & Time Indicator
H. Boost Indicator
I. WIFI signal Strength Indicator
J. Hold Indicator
K. Override
L. Time Display
M. Set Temperature
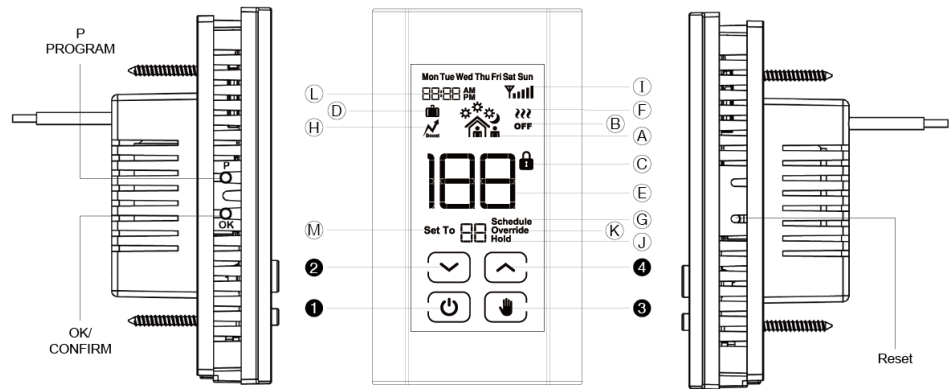
1. Standby Button 2. Down Button 3. Hold Button 4. Up Button

HOLD MODE

Press [✋] button to enter Hold mode

Press [⌃] + [⌄] to select temperature (40~95°F) as desired Hold temperature.

Press **OK** to complete the setting

To turn off the Hold mold, please press [✋] button.

KEY LOCK MODE

Press [⌄] + [⏻] buttons simultaneously for 5 seconds to Enter or Exit Key Lock Mode.

STANDBY FUNCTION

Press [⏻] button to Enter or Exit Standby Mode.

Pressing the Standby button the hoot thermostat disables the relay output but activates Anti-Freeze Mode

Standby indicator shows up on the screen.

• Anti-Freeze Mode offers below 40°F freeze protection . This means the system is still on and when the room temperature drops below 40°F, the heater will turn on to provide freeze protection heating.

MAX TEMPERATURE LIMIT SETTING

Press [⏻] to enter Off mode

Press and hold simultaneously the **P + OK** buttons for 5 seconds to enter max temperature setting mode

Press [⌃] + [⌄] to adjust the max temperature (40-95 °F)

Press OK to complete the setting

MANUAL TEMPORARY OVERRIDE

Press [⌃] or [⌄] to select 40°F-95°F temperature as the desired temporary override temperature.

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INITIAL SETUP USING THERMOSTAT BUTTONS

A. Period Indicator
B. Standby Indicator
C. Key Lock Indicator
D. Vacation Indicator
E. Temperature Indicator
F. Heating ON Indicator
G. Programming & Time Indicator
H. Boost Indicator
I. WIFI signal Strength Indicator
J. Hold Indicator
K. Override
L. Time Display
M. Set Temperature
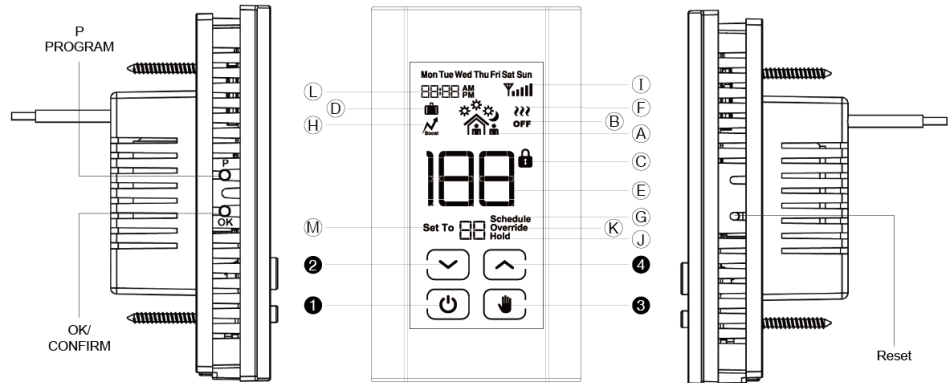
1. Standby Button 2. Down Button 3. Hold Button 4. Up Button

Manual Setup: When setting up the Hoot thermostat without using the smartphone App, follow the below steps to set default preferences prior to programming your heating schedule.

INITIAL SETUP:

Press and hold ⌄ **+** ⌄ buttons simultaneously for 5 seconds to enter **SETTINGS MODE**:

Setting #1: Set °C or °F

Press ⌃ or ⌄ and to select °C or °F (Default °F)

Press **OK** to save setting and move to next step.

Setting #2: Set Clock

Press ⌃ or ⌄ and **OK** key to adjust Day → Hour→ Minute.

Press **OK** to save setting and move to next step.

Setting #3: Set Temperature Differential:

The Offset value that you set will be added or subtracted from the Hoot's ambient temperature reading.

Press ⌃ or ⌄ to adjust the temperature differential.

Press **OK** to save setting and move to next step.

> When set to °**F**: Select either 1°F / 2°F / 3°F or 4°F (Default = 1°F)

Setting #4 Period selection: P4 or P6

Press ⌃ or ⌄ to select P4 (4 Periods Per Day) or P6 (6 Periods Per Day)

Press **OK** to save and move to next step.

Setting #5 Brightness

Press ⌃ or ⌄ to select the contrast is from 1 (dim) to 7 (bright).

Press **OK** to save setting and move to next step

Setting #6 Beep on/ off

Press ⌃ or ⌄ to choose Beep on or Beep off.

Press **OK** to save setting.

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MANUALLY PROGRAMMING THE HEATING SCHEDULE

When programming the heating schedule through the buttons on the thermostat, you will have the option of scheduling 4 time periods per day or 6 time periods per day. The below charts show the default times and temperatures for each of the 4 or 6 daily time periods. These can be customized as desired, as shown on the following page.

DEFAULT SCHEDULE FOR 4 PEIODS PER DAY (P4)

TIME PERIOD	MON	TUE	WED	THU	FRI	SAT	SUN
Period 1 (P1) 70 °F	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM
Period 2 (P2) 55 °F	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM
Period 3 (P3) 70 °F	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM
Period 4 (P4) 60 °F	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM

DEFAULT SCHEDULE FOR 6 PEIODS PER DAY (P6)

| TIME PERIOD	MON	TUE	WED	THU	FRI	SAT	SUN
Period 1 (P1) 70 °F	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM	6:00 AM
Period 2 (P2) 55 °F	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM	8:00 AM
Period 3 (P3) 70 °F	12:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM
Period 4 (P4) 55 °F	2:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM
Period 3 (P3) 70 °F	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM	6:00 PM
Period 4 (P4) 60 °F	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM	10:00 PM

MANUALLY PROGRAMMING THE HEATING SCHEDULE

Program Heating Schedule—4 Periods Per Day/6 Periods Per Day

When programming the heat schedule through the buttons on the thermostat, you have 4 time or 6 time periods per day that need to be programmed.

- **Wake**
- **Return**
- **Leave**
- **Sleep**

Press **P** button to enter/exit **Program Setting** mode

Step1: Select Day of the Week to be Programmed.
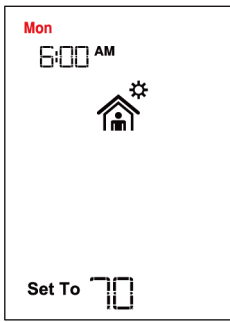
Press [⌃] or [⌄] buttons to select day to be programmed (Mon to Sun)

The programming starts by default with programing of Period 1 (P1)

To schedule a different time period press [⏻] button to scroll through the available periods (P1, P2, P3, P4, P5 and P6)

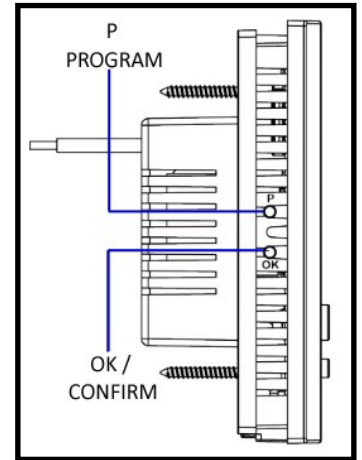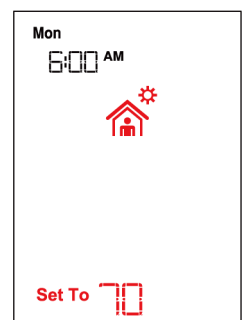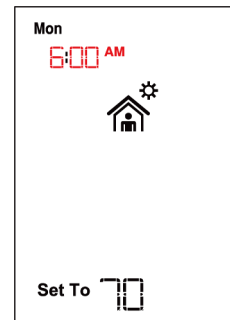Press **OK** to save the setting and move to next step.

Figure: Step 2

Figure: Step 3

Step2: Select the START time for the Time Period

Press [⌃] or [⌄] buttons to change the Period Start Time

Press **OK** to save the setting and move to next step.
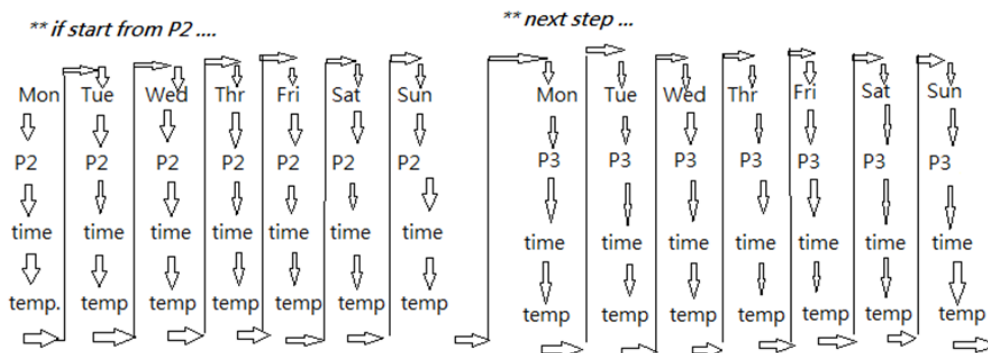
Step3: Select the desired Temperature Setting for the Time Period.

Press [⌃] or [⌄] buttons to scroll through 40-95°F.

Press **OK** to continue to next step or Press **P** to EXIT Programming Mode.

Sequence of Programming setting for P1, P2, P3, P4, P5 and P6.

......and so on continue to P6 and then P1 to complete

**Starting from P1, the sequence is P2, P3, P4, P5 and P6 a cycle, the same logic start from P3, P4, P5, P6, P1, P2 a cycle or from P4, P5, P6, P1, P2, P3 a cycle.

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