



# **BDXHTSL1 Smart Thermostat**

## **Installation & Operation Manual**



**Please read before returning this product for any reason.**

# USING THIS MANUAL

**BEFORE INSTALLING AND USING THE BDXHTSL1 SMART THERMOSTAT,** please read these instructions carefully. This manual is intended as a reference guide for the installation, configuration, and operation of your device. Save all instructions in a safe place for future reference.

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## SAFETY ALERT SYMBOLS

This instruction manual uses the following safety alert symbols and text to alert installers or users to hazards and risks of personal injury or property damage.



**DANGER:**

Indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.



**WARNING:**

Indicates an imminently hazardous situation which, if not avoided, **could** result in death or serious injury.



**CAUTION:**

Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.



(Used without one of the words above) indicates a safety related message.

**NOTICE:** Indicates a practice **not related to personal injury** which, if not avoided, **may** result in property damage.

# IMPORTANT SAFETY INSTRUCTIONS



**WARNING: Read all safety warnings and all instructions.**

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.



**WARNING:** Never modify this product. Damage or personal injury could result.



**WARNING:**

- Follow all applicable electrical codes and regulations regarding the installation or replacement of a thermostat in the local jurisdiction. In the absence of local requirements, follow ANSI/NFPA 70, National Electric Code. In some cases, an authorized installer may be required. Consult a qualified electrician or HVAC technician with any questions about the installation of this product.
- **DO NOT connect any of the terminals to voltage above 30 VAC.**  
The Thermostat uses 24 VAC nominal power.
- **DO NOT** cover any of the vents on the thermostat.
- **DO NOT** install this unit at an altitude of over 6550 feet (2000 meters).
- **DO NOT** install this unit in a bathroom or area of excessive moisture.
- **DO NOT** allow the unit to get wet. This temperature control device is intended only for dry, closed living and office spaces.
- **DO NOT** expose this device to temperatures below 14°F (-10°C) or above 140°F (60°C).
- **DO NOT** operate or store this thermostat in areas where the relative humidity exceeds 90%.
- **DO NOT** expose the unit to voltage fluctuations more than +/- 10%.
- **DO NOT** use solvents or aggressive cleaning agents. A dry, soft cloth is recommended.

The manufacturer does not accept responsibility for any damage caused by not following these instructions.

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## CUSTOMER SERVICE & SUPPORT

For any questions about operating this new BLACK+DECKER branded product, PLEASE CONTACT US FIRST... do not return this product to the retail store. The contact information for support will vary depending on the country in which you purchased and utilize the product.

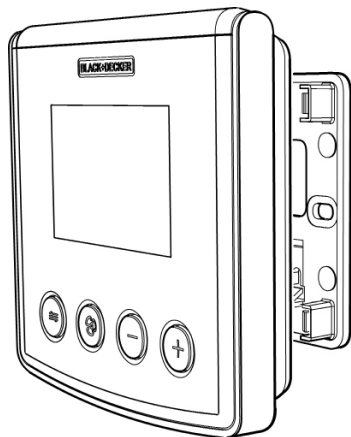
To obtain warranty service or other information for products purchased from CT Nova itself or through its authorized reseller or agent and utilized in the U.S.A., please visit **www.ctnovatech.com**. You will receive instructions on how to ship the products at your expense to our Authorized Service Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; and, most importantly; (c) your address and telephone number.

For further information needed on its features, please visit **www.ctnovatech.com** for frequently asked questions and the electronic manual.

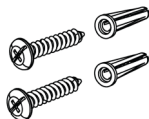
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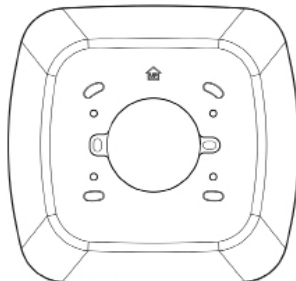
## IN THE BOX



**BDxHTSL1 Smart Thermostat  
with Mounting Plate**



**Mounting  
Hardware**



**Wall Plate (if required)**



**Installation & Operation Manual**

# INSTALLING THE THERMOSTAT

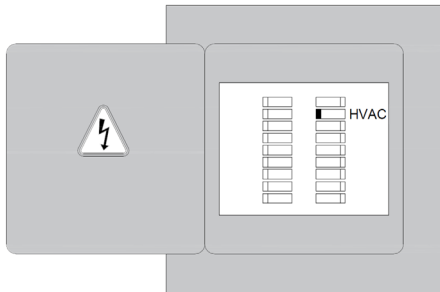
There are 5 steps to install the BDXHTSL1 Smart Thermostat.

1. Determine Wiring Configuration
2. Remove Old Thermostat
3. Install Thermostat Mounting Base
4. Connect Wires
5. Attach Display

## TOOLS REQUIRED (Not included)

The following tools may be required for installation:

- #1 Phillips or flathead screwdriver
- Power drill with 3/16" bit
- Level
- Smartphone/camera to photograph existing wiring (optional)
- Screwdriver to disconnect wires from existing thermostat.
- Pencil



## TURN OFF POWER TO HVAC SYSTEM

Locate the HVAC panel breaker and turn OFF the system. Before removing the old thermostat, initiate heating or cooling by changing the temperature setting. Ensure the HVAC system does not respond.

# INSTALLING THE THERMOSTAT

## DETERMINE WIRING CONFIGURATION

If the BDXHTSL1 Smart Thermostat is being installed in a new system or if wiring changes are required, refer to Appendix A for the wiring configurations and skip to “**Install Mounting Plate**”.

When replacing a thermostat and replication of the existing wiring is desired on the BDXHTSL1 Thermostat, the following applies:

- Remove old thermostat to expose the wiring terminals
- Photograph the wiring for reference or,
- Use the **Wire Color Record** to note the wire color and function of each wire. If the terminals of the existing thermostat are unmarked, determine the wire functions for each color wire at the appliance.

### Wire Color Record

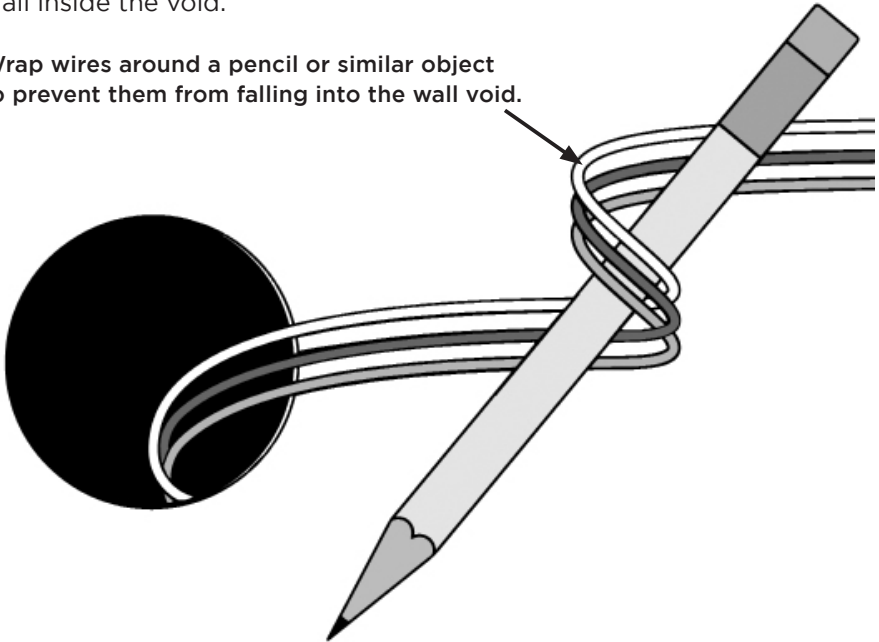
NON-HP	HP	WIRE COLOR/DESCRIPTION
RC	RC	
RH	RH	
C	C	
G	G	
Y1	Y1	
N/A	N/A	
W1	OB	
☆	☆	
N/A	L	

# INSTALLING THE THERMOSTAT

## REMOVE OLD THERMOSTAT

Remove the old thermostat from the wall, taking care not to allow the wires to fall inside the void.

Wrap wires around a pencil or similar object to prevent them from falling into the wall void.



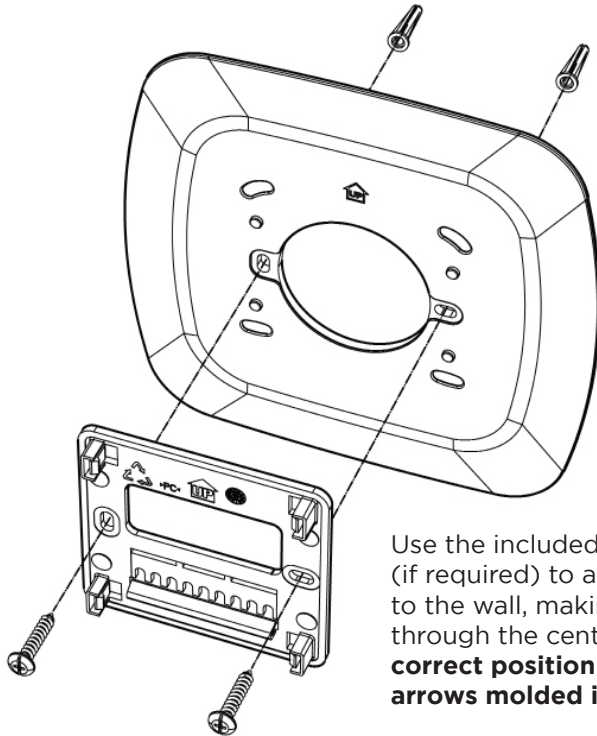
### **WARNING:**

The BD XHTML1 Thermostat IS NOT COMPATIBLE with supply voltages above 30 VAC. If the old thermostat is connected with thick wire and wire nuts or is labeled for voltages higher than 30 VAC, **DO NOT INSTALL** the Thermostat.



# INSTALLING THE THERMOSTAT

## INSTALL MOUNTING PLATE (with WALL PLATE if required)



*Note: Use 3/16" drill for wall anchors if no stud is present.*

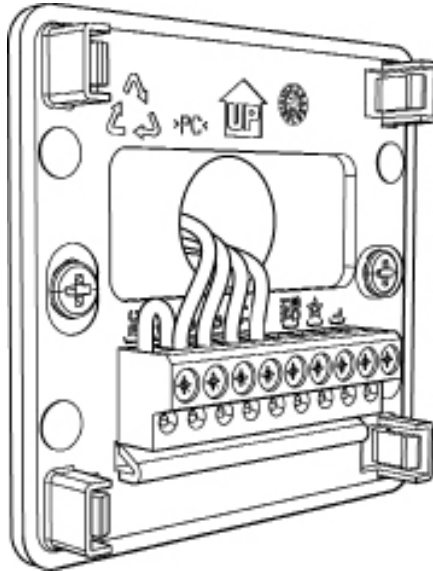
Use the included screws and wall anchors (if required) to attach the Mounting Plate to the wall, making sure the wires go through the center opening. **Note the correct position indicated by the UP arrows molded into the plastic.**

To cover paint or screw holes on the wall behind the thermostat, insert the Wall Plate between the Mounting Plate and the wall as shown. Both plates are secured with the same screws.

# INSTALLING THE THERMOSTAT

## ATTACH WIRING

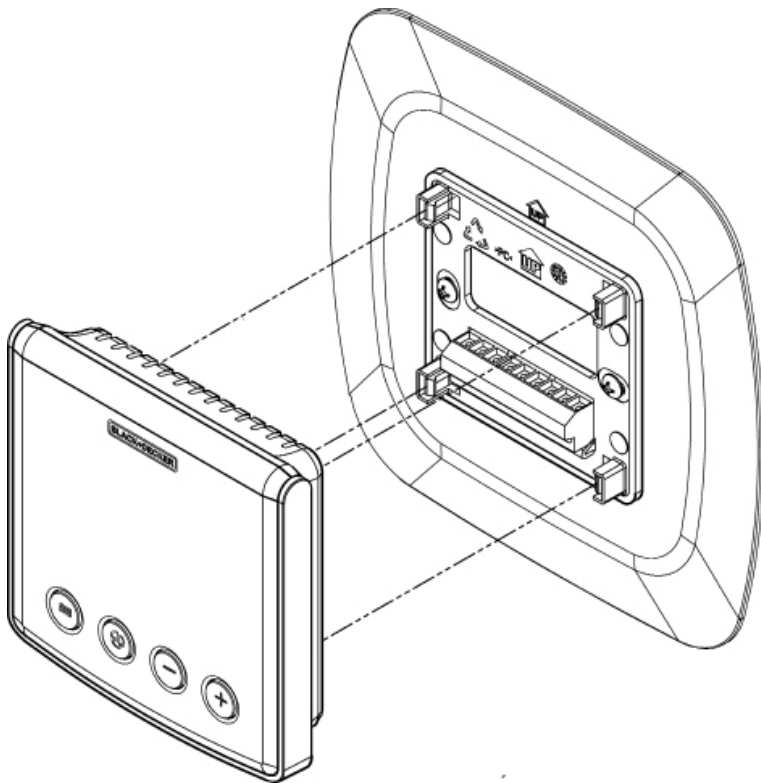
To insert a wire, loosen the screw corresponding to the labeled socket and slide the wire into the socket. Once the wire is inserted, tighten the screw snugly. **DO NOT OVERTIGHTEN** the screws. Pull gently on each wire after the screw is snug to make sure it is secure. Inspect the wires for oxidation and integrity.



**NOTICE:** A factory supplied jumper is provided between RC and RH. This should be removed in two transformer systems (See Appendix A).

# INSTALLING THE THERMOSTAT

## ATTACH DISPLAY TO MOUNTING PLATE





Slide the display over the Mounting plate and the LCD display will illuminate.







# DEVICE OVERVIEW




## BDXHTSL1 SMART THERMOSTAT KEYS



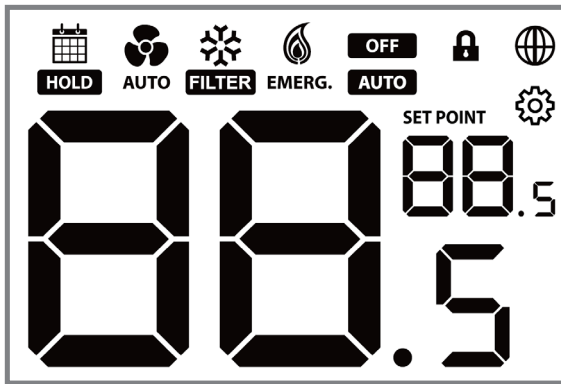
KEY	DESCRIPTION		BUTTON	DESCRIPTION	
	<b>FAN</b>	Change Fan Speed	<b>+</b>	<b>INCREASE</b>	Increase Set Point
	<b>MODE</b>	Change System Mode	<b>-</b>	<b>DECREASE</b>	Decrease Set Point

# DEVICE OVERVIEW












SPECIAL KEY FUNCTIONS		
KEYS	TIME	RESULT
 	< 3 seconds	Briefly press + and - keys to switch between Programmable  and Non-programmable <b>HOLD</b> Thermostat.
	3 seconds	Hold + and - keys for 3 seconds to lock or unlock key pad.
 	3 seconds	Hold the <b>Fan</b> and <b>Mode</b> keys for 3 seconds to enter or exit the Parameter Menu.
	5 seconds	Hold the <b>Mode</b> button for 5 seconds to initiate pairing with a Wi-Fi network and the Black+Decker Application.

PARAMETERS AND MENU KEY FUNCTIONS	
KEY	DESCRIPTION
	Scroll forward through the Parameter Menu
	Scroll backward through the Parameter Menu
	Select parameter value in the Parameter Menu

## DISPLAY ELEMENTS



	Cloud Server/ Internet Connection	Steady = Wi-Fi and Cloud Server connected
		1 Flash = Wi-Fi connected, No Cloud connection
		2 Flashes = No Wi-Fi or Cloud Server connection
	Thermostat Lock Indicator	Displayed when thermostat keys are disabled
	Schedule Indicator	Displayed when thermostat schedule is enabled.
	Override Indicator	Displayed when scheduled temperature override is active.
	Filter Warning Indicator	Displayed when air filter is clogged.

Heating/Cooling Modes - Press  to change		
	OFF - The SMARTSTAT will not activate heating or cooling*	 AUTOMATIC CHANGEOVER - The SMARTSTAT will activate heating or cooling appliance based on the room temperature.
	HEAT - The SMARTSTAT will activate heating appliance based on the room temperature.	 EMERGENCY HEAT - The SMARTSTAT displays this with the  element to indicate that emergency heat is active.
	COOL - The SMART-STAT will activate cooling appliance based on room temperature.	* If freeze protection is active, the heating appliance will be activated to maintain a minimum temperature.
Fan Mode		
	FAN - Press  to change between automatic mode and manual.	
Temperature Displays		
SET POINT 		SET POINT - Displays the current target set point temperature.
		Displays the current room temperature.

# SMART DEVICE APPLICATION

The BDxHTSL1 Thermostat is designed for remote operation using a smart device application.



**Before setting up the thermostat, download the BLACK+DECKER HOME application** on your IOS or Android device. After downloading the application, follow the steps in the BLACK+DECKER Home Application Guide to connect the thermostat.

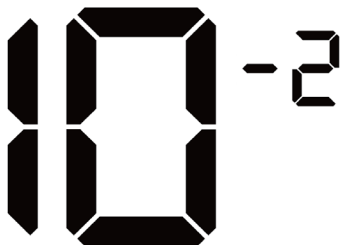





# THERMOSTAT PARAMETERS



To access the BDxHTSL1 Smart Thermostat menu parameters manually, hold down the **Mode** and **Fan** buttons for 3 seconds. When a Menu Code is displayed, use the + and - buttons to choose the desired value.



Press **Mode** (  ) to display Option Values. Once the desired Menu Code and Option Code are displayed, press **Mode** to accept the value.

# THERMOSTAT PARAMETERS

To access the BDXHTSL1 Smart Thermostat menu parameters manually, hold down the **Mode** and **Fan** buttons for 3 seconds. The following is a list of the available parameters.

PARAMETER	CODE	DESCRIPTION	
HVAC Type	<b>01</b> <sup>1</sup>	Conventional 1H	1-Stage Heating
	<b>01</b> <sup>2</sup>	Conventional 2H	2-Stage Heating
	<b>01</b> <sup>3</sup>	Conventional 1H 1C	1-Stage Heating & 1-Stage Cooling
	<b>01</b> <sup>4</sup>	Conventional 2H 1C	2-Stage Heating & 1-Stage Cooling
	<b>01</b> <sup>5</sup>	Conventional 1H 2C	1-Stage Heating & 2 Stage Cooling
	<b>01</b> <sup>6</sup>	Conventional 1C	1-Stage Cooling
	<b>01</b> <sup>7</sup>	Conventional 2C	2-Stage Cooling
	<b>01</b> <sup>8</sup>	Heat Pump 1H	1-Stage Heating
	<b>01</b> <sup>9</sup>	Heat Pump 1C	1-Stage Cooling
	<b>01</b> <sup>10</sup>	Heat Pump 1H1C	1-Stage Heating & 1-Stage Cooling
	<b>01</b> <sup>11</sup>	Heat Pump 2H	2-Stage Heating
	<b>01</b> <sup>12</sup>	Heat Pump 2H 1C	2-Stage Heating & 1-Stage Cooling
	<b>01</b> <sup>13</sup>	Dual Fuel 2H 1C	2-Stage Heating & 1-Stage Cooling
FAN Type	<b>03</b> <sup>1</sup>	Gas (Gas-fired)	Gas-fired Equipment
	<b>03</b> <sup>2</sup>	Electric (Electric Powered)	Electric Powered Equipment
	This setting is only available for HVAC Type Conventional (01 <sup>1</sup> to 01 <sup>8</sup> ) and Dual Fuel (01 <sup>15</sup> )		

# THERMOSTAT PARAMETERS

PARAMETER	CODE	DESCRIPTION	
HP Type	<b>04</b> <sup>1</sup>	HP o	Changeover valve defaults to Cooling
	<b>04</b> <sup>2</sup>	HP b	Changeover valve defaults to Heating
Temp Unit	<b>07</b> <sup>1</sup>	Fahrenheit	US Customary System of Temperature Units
	<b>07</b> <sup>2</sup>	Celsius	Système international Metric Temperature Units
Frost Protection	<b>09</b> <sup>1</sup>	Disable	When enabled, call for heat will be initiated if room temperature drops below 41.0°F (5.0°C)
	<b>09</b> <sup>2</sup>	Enable	
Temp Cal.	<b>10</b> <sup>-6</sup>	-6.0°F (-3.0°C)	Calibrate temperature reading by offsetting the display by -6.0°F to 6.0°F (-3.0°C to 3.0°C) in 1.0°F (0.5°C) increments. Default = 0
	<b>10</b> <sup>-5</sup>	-5.0°F (-2.5°C)	
	<b>10</b> <sup>-4</sup>	-4.0°F (-2.0°C)	
	<b>10</b> <sup>-3</sup>	-3.0°F (-1.5°C)	
	<b>10</b> <sup>-2</sup>	-2.0°F (-1.0°C)	
	<b>10</b> <sup>-1</sup>	-1.0°F (-0.5°C)	
	<b>10</b> <sup>0</sup>	0.0°F (0.0°C)	
	<b>10</b> <sup>1</sup>	1.0°F (0.5°C)	
	<b>10</b> <sup>2</sup>	2.0°F (1.0°C)	
	<b>10</b> <sup>3</sup>	3.0°F (1.5°C)	
	<b>10</b> <sup>4</sup>	4.0°F (2.0°C)	
	<b>10</b> <sup>5</sup>	5.0°F (2.5°C)	
	<b>10</b> <sup>6</sup>	6.0°F (3.0°C)	

# THERMOSTAT PARAMETERS


PARAMETER	CODE	DESCRIPTION	
Span	<b>11</b> <sup>05</sup>	0.5°F (0.25°C)	Control variable that affects thermostat response time. A larger number slows response time.
	<b>11</b> <sup>10</sup>	1.0°F (0.5°C)	
	<b>11</b> <sup>15</sup>	1.5°F (0.75°C)	
	<b>11</b> <sup>20</sup>	2.0°F (1.0°C)	
	<b>11</b> <sup>25</sup>	2.5°F (1.25°C)	
	<b>11</b> <sup>30</sup>	3.0°F (1.5°C)	
Deadband	<b>12</b> <sup>2</sup>	2.0°F (1.0°C)	Allowable temperature difference, in Auto Mode, between heating and cooling set points. Default = 4.0°F (2.0°C)
	<b>12</b> <sup>3</sup>	3.0°F (1.5°C)	
	<b>12</b> <sup>4</sup>	4.0°F (2.0°C)	
Setback Offset	<b>13</b> <sup>4</sup>	4.0°F (2.0°C)	Difference between the non-programmable set point and the setback temperature.
	<b>13</b> <sup>8</sup>	8.0°F (4.0°C)	
	<b>13</b> <sup>12</sup>	12.0°F (6.0°C)	
Reduces energy usage when the space is not occupied.			
Backlight Timeout	<b>14</b> <sup>1</sup>	Disable	Backlight always on
	<b>14</b> <sup>2</sup>	Enable	Backlight timeout after 20 seconds

# THERMOSTAT PARAMETERS




PARAMETER	CODE		DESCRIPTION	
Auto Recovery	<b>15</b> <sup>1</sup>	Disable	Gradually increases setpoint after setback	
	<b>15</b> <sup>2</sup>	Enable		
Filter Warning	<b>16</b> <sup>1</sup>	Disable	Filter warning ( <b>FILTER</b> ) displayed after 700 hours of operation	
	<b>16</b> <sup>2</sup>	Enable		
	To reset the filter warning, select Code <b>16</b> <sup>2</sup>			
Reset	<b>99</b> <sup>0</sup>	Power Reset	<b>99</b> <sup>01</sup>	Abort power reset
			<b>99</b> <sup>02</sup>	Confirm power reset
	<b>99</b> <sup>2</sup>	Factory Reset	<b>99</b> <sup>21</sup>	Abort reset to factory defaults
			<b>99</b> <sup>22</sup>	Confirm reset to factory defaults

# MANUAL OPERATION





## MODE CHANGE

To change the operating mode, press the Mode (  ) button. The following table shows the mode sequence based on the System Type:

### Mode Change Sequence

System Type	Sequence			
Conventional Heating/Cooling Heat Pump Dual Fuel (Gas/Electric)	 <b>AUTO</b>			<b>OFF</b>

### Available Modes Based on HVAC System Setting:

System Type		 <b>AUTO</b>			 <b>EMERG</b>	<b>OFF</b>
Conventional	Heat Only			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	Cool Only		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Heat/Cool	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Heat Pump	Heat Only			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	Cool Only		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
	Heat/Cool	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
	Heat/Cool + 1 Aux	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dual Fuel	(Gas/Electric)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

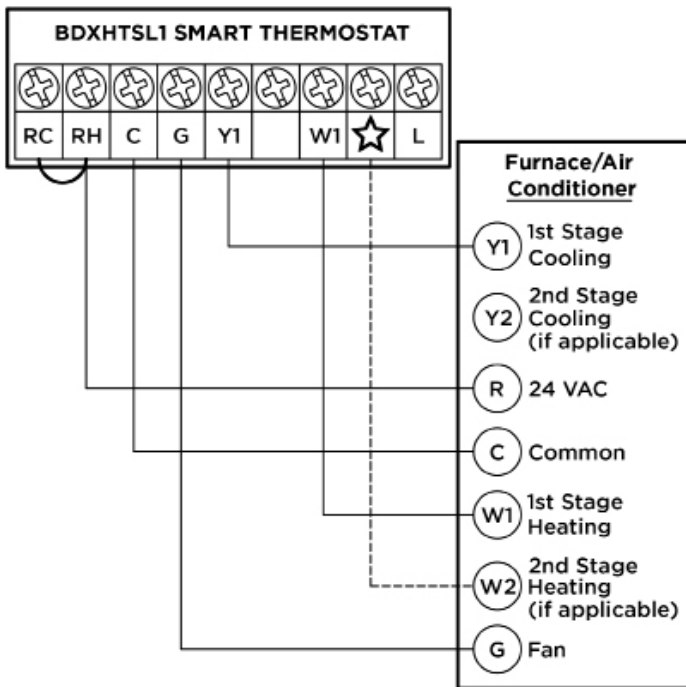
# APPENDIX A – SCHEMATIC WIRING

The following are schematic wiring diagrams based on applicable system types.



## WARNING:

Failure to correctly wire the BDXHTSL1 Thermostat could result in death or serious injury. The local jurisdiction may require installation by authorized service personnel.



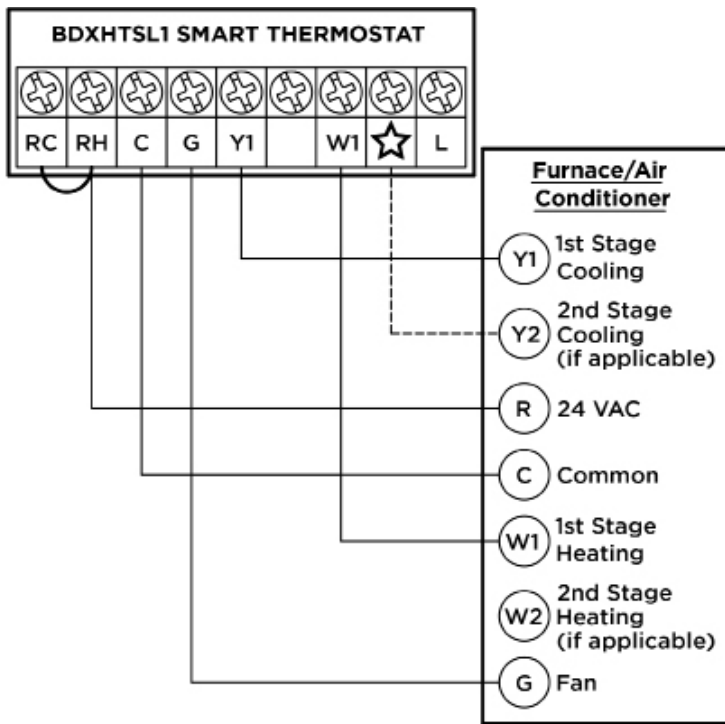
**Conventional Furnace/AC 2H/1C (Non-Heat Pump) - 1 Transformer**

# APPENDIX A - SCHEMATIC WIRING



## WARNING:

Failure to correctly wire the BDXHTSL1 Thermostat could result in death or serious injury. The local jurisdiction may require installation by authorized service personnel.



Conventional Furnace/AC 1H/2C (Non-Heat Pump) - 1 Transformer



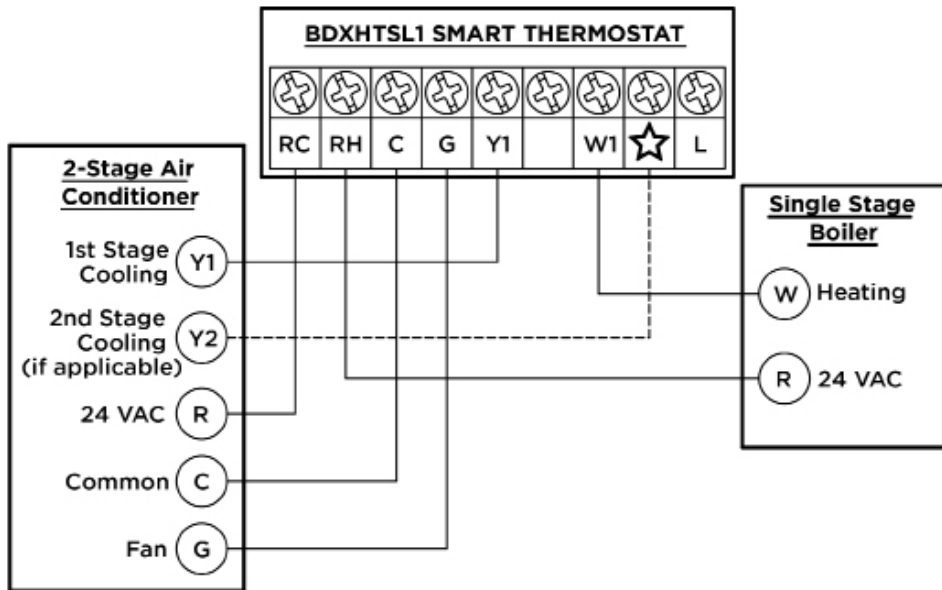
# APPENDIX A - SCHEMATIC WIRING

The following are schematic wiring diagrams based on applicable system types.



## WARNING:

Failure to correctly wire the BDXTSL1 Thermostat could result in death or serious injury. The local jurisdiction may require installation by authorized service personnel.



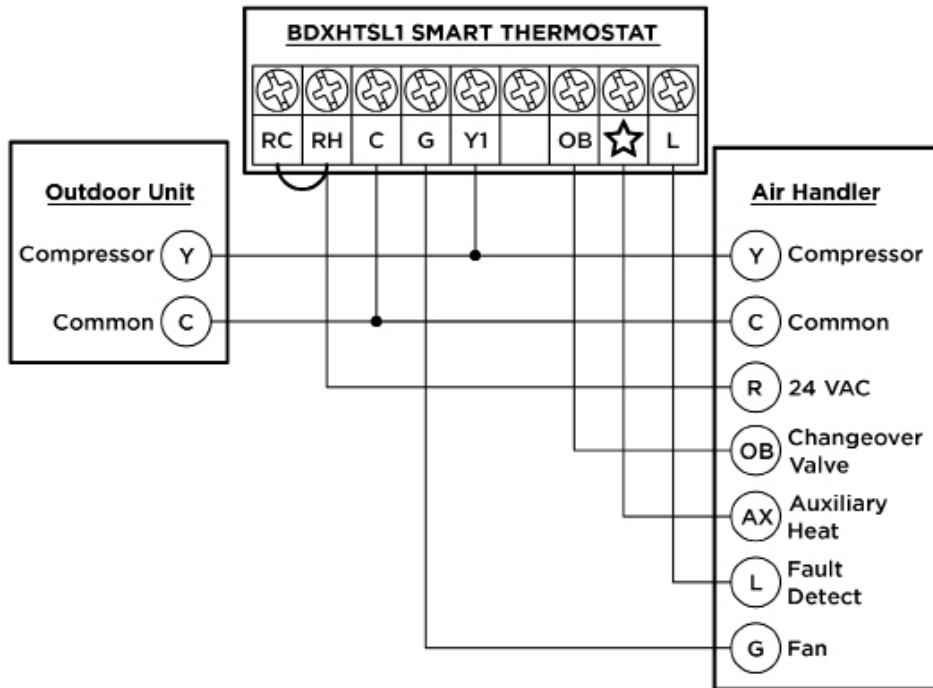
Conventional Boiler/AC (Non-Heat Pump) - 1 Transformer

# APPENDIX A - SCHEMATIC WIRING



## WARNING:

Failure to correctly wire the BDXHTSL1 Thermostat could result in death or serious injury. The local jurisdiction may require installation by authorized service personnel.



Heat Pump - 1 Transformer

# APPENDIX B - WARRANTY

## Three-Year Limited Warranty

CT Nova warrants to the original consumer purchaser only that this product and the component parts thereof, will be free from defects in workmanship and materials. CT Nova will, repair or replace, at its sole option and discretion, this product or any defective parts. CT Nova's liability hereunder shall be limited to repair or replacement of the defective part or parts, and such correction shall constitute a fulfillment of all of CT Nova's warranties hereunder.

This limited 3-year warranty is only valid for the original consumer purchaser in limited jurisdictions and is not transferrable. This limited 3-year warranty will automatically terminate if this product is sold or otherwise transferred to another party. The product must be purchased from CT Nova or an authorized dealer or the warranty is void. This limited 3-year warranty is valid only for products purchased and utilized in specific jurisdictions. Please visit our website at [www.ctnovatech.com](http://www.ctnovatech.com) for a list of jurisdictions wherein this 3-year limited warranty is valid.

This limited 3-year warranty does not apply to accessories and consumables and does not cover damage due to misuse, abuse, negligence, acts of God, accident, commercial use or modification of, or to any part of this product. This warranty does not cover damage due to improper operation, maintenance or installation; ordinary wear and tear; or attempted alterations or repairs by anyone other than CT Nova or someone authorized by CT Nova to do warranty work. Any unauthorized alterations or repairs will void this warranty. This limited 3-year warranty does not cover product sold AS IS or WITH ALL FAULTS. This limited 3-year warranty is invalid if the factory applied serial number or date stamp has been altered, defaced or removed from this product. This limited 3-year warranty does not cover product purchased or utilized in a jurisdiction not covered.

The procedure for obtaining service and support, and the applicability of this warranty, will vary depending on the country or jurisdiction in which you purchase and utilize the product. For details on obtaining product service, support and other warranty information please visit [www.ctnovatech.com](http://www.ctnovatech.com).

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY, CT NOVA MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CT NOVA EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERMS OF THIS EXPRESSED WARRANTY.

# APPENDIX B - WARRANTY

LIMITATION OF REMEDIES AND DAMAGES. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. CT NOVA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES AND/OR COSTS OF LITIGATION, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. CT NOVA IS NOT LIABLE FOR ANY DAMAGES CAUSED BY THE PRODUCT OR BY THE PRODUCT TO PERFORM, INCLUDING ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGES, OR CONSEQUENTIAL DAMAGES. CT NOVA IS NOT LIABLE FOR ANY CLAIM MADE BY A THIRD PARTY OR MADE BY YOU FOR A THIRD PARTY. THIS LIMITATION APPLIES WHETHER DAMAGES ARE SOUGHT, OR A CLAIM MADE, UNDER THIS WARRANTY OR AS A TORT CLAIM (INCLUDING NEGLIGENCE OR STRICT PRODUCT LIABILITY), A CONTRACT CLAIM, OR ANY OTHER CLAIM. THIS LIMITATION CANNOT BE WAIVED OR AMENDED BY ANY PERSON. THIS LIMITATION OF LIABILITY WILL BE EFFECTIVE EVEN IF CT NOVA OR AN AUTHORIZED REPRESENTATIVE OF CT NOVA HAS BEEN ADVISED BY YOU OF THE POSSIBILITY OF ANY SUCH DAMAGES.

Some states and countries do not allow limitations on how long an implied warranty lasts and do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

Provided that the product was purchased from CT Nova itself or through its authorized reseller or agent and utilized in the U.S.A., CT Nova will, without charge, repair or replace, at its option, defective products, products or component parts upon delivery to the authorized CT Nova Authorized Service Center, accompanied by proof of the date of first customer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges, to an address in the U.S.A, will be at CT Nova's expense, if the product is under warranty.

## **For Products Purchased Outside the U.S.A.**

Please contact your authorized local reseller or agent for warranty information.

# APPENDIX C - COMPLIANCE

## FCC

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.

Changes or modifications to this unit 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.

# APPENDIX C - COMPLIANCE

## FCC AND INDUSTRY CANADA

RF Radiation Exposure statement: This equipment complies with FCC and Industry Canada RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the antenna and all persons.

Cet appareil est conforme aux limites d'exposition au rayonnement FR du FCC et d'Industrie Canada pour un environnement non contrôlé. Cet appareil devrait être installé et devrait fonctionner de sorte qu'il se trouve à une distance d'au moins 20 cm entre l'antenne et toute personne.

## INDUSTRY CANADA

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

# APPENDIX D - SPECIFICATIONS

## Model BDxHTSL1 Smart Thermostat

<b>Temperature Units</b>	°F or °C
<b>Operating Temperature</b>	32°F to 122°F (0°C to 50°C)
<b>Storage Temperature</b>	14°F to 140°F (-10°C to 60°C)
<b>Humidity Range</b>	< 90% RH Non-condensing
<b>Power Input</b>	18-30 VAC, 60 Hz
<b>Load Rating</b>	24 VAC 1 A per terminal; Max. 2A total
<b>Dimensions</b>	3.9" x 4.0" x 0.9" (100 mm x 101 mm x 23 mm)
<b>Communication Frequency</b>	802.11 b/g/n
<b>Approvals</b>	FCC, Industry Canada, RoHS Compliant
<b>Heating/Cooling Modes</b>	Heat Pump: 2 Heating / 1 Cooling Conventional: 2 Heating / 1 Cooling or 2 Cooling / 1 Heating

# TRADEMARK ACKNOWLEDGEMENT

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 **WARNING:** This product can expose you to chemicals including Styrene, which is known by the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



**BDXHTSL1-EN**



**BDXHTSL1**

**INSTALLATION & OPERATION MANUAL**

**B+D-GM-BDXTTSL1-EN-202106 v1**