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Switch It™ Wireless Thermostat, Model SWT

READ OWNERS INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION.
THESE INSTRUCTIONS MUST REMAIN WITH EQUIPMENT. DO NOT DESTROY.

DESCRIPTION

Tjernlund's Switch It™ Wireless Controls simplify retrofit and hard-to-reach installations by allowing you to remotely control the fan's operation up to 80 feet away. No need to tear into walls or run surface wiring to put the thermostat in the desired location. Use the SWT for heating applications to automatically turn the fan on as the temperature falls.

The system can be operated thermostatically or manually from the transmitter. The system operates on radio frequencies (RF) using non-directional signals. The system operates one of 1,048,576 security codes that are programmed into the transmitter at the factory; the remote receiver's code must be matched to that of the transmitter prior to initial use.

GENERAL INFORMATION

The thermostat operates on (2) 3V Button Cell (Included) which powers the LCD screen and powers the RF signal. Before using the transmitter the 3V batteries must be installed into the battery compartments. It is recommended that CR2032 lithium batteries always be used for longer battery life and maximum operational performance. Upon initial use, there may be a delay of five seconds before the remote receiver will respond to the transmitter. This is part of the system's design. If the LCD screen will not come on, check the 3V Button Cell battery

INSTALLATION

TO INSTALL BATTERIES IN THE WIRELESS THERMOSTAT
1. Remove face from backing plate. This is done by sliding the face up about 1/2" then pulling the face off the base plate.
2. Locate the (2) holders for the 3V button cell batteries.
3. Slide the button cell batteries into the battery holders. (Make sure that the batteries are installed with the (+) plus side facing you or up.)

TO REMOVE THE BATTERIES IN THE WIRELESS THERMOSTAT
1. Remove face from backing plate. This is done by sliding the face up about 1/2" then pull the face off the base plate.
2. Locate the (2) holders for the 3V button cell batteries.
3. Insert a small screwdriver into the slot above the button cell battery and push the battery out.

WALL MOUNTING THE THERMOSTAT
1. The wireless thermostat must be located within 20' of the receiver, this is the normal operational distance.
2. Remove face from backing plate then locate the (2) two holes that mount the plate to the wall.
3. After locating the (2) two mounting holes and mark the holes on the wall.
4. Use the (2) two dry wall anchors and screws (included) to mount the base plate to the wall as shown.
5. Thermostat can also be mounted onto an existing (Plastic) electrical box.
6. Base plate should be mounted level on the wall for best operation.

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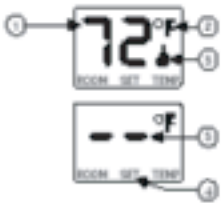
FUNCTIONS



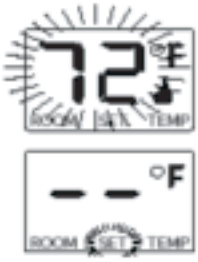
1. ROOM TEMP – Current room temperature.
2. **F** – Degrees Fahrenheit (**C Indicates** degrees Celsius)
3. FLAME ICON – Indicates APPLIANCE IS ON.
4. SET- Indicates transmitter is in thermostat mode.
5. DASHES – Indicate thermostat mode is being disabled. When transmitter is not in the thermostat mode. The word **(SET)** will not appear.

1. This Wall/transmitter has **ON**, **OFF**, and **SET** functions that are activated by pressing the buttons on the face of the transmitter.
2. Upon initial use, there may be a delay of five seconds before the remote receiver will respond to the transmitter. This is part of the system's design. If the LCD will not come on, check the 3V-button cell battery.

SETTING MANUAL OPERATION

1. When the **ON** button on the wall/transmitter is pressed a flame icon on the LCD screen will appear when the appliance is **ON**.
2. When the appliance is **OFF** the flame icon will not appear.

SETTING THERMOSTAT OPERATION



1. If the transmitter is in the thermostat mode the word **(SET)** will appear on the LCD screen.
2. When the **SET** button is pressed the temperature digits will begin to flash.
3. While the temperature digits are flashing use the **ON** button to increase the set temperature or
   use the **OFF** button to decrease the set temperature to your desired temperature.
4. When the desired temperature setting is reached press the **SET** button, again and the word **SET** will appear on the LCD screen and now the transmitter will automatically send an **ON** or **OFF** signal to the receiver.
5. To disengage the thermostat mode push the **OFF** button or push and hold the **SET** button until (2) dashes appear on the LCD screen. When you release the **SET** button this will disengage the thermostat mode and the word **SET** will disappear from the LCD screen.

SETTING ^{0}F / ^{0}C SCALE

The factory setting for temperature is degrees Fahrenheit (0 F). To change this setting to Centigrade (^{0}C), you must press and hold both the **ON** and **OFF** buttons on the transmitter **at the same time** until the LCD displays the change. If you want to convert back, repeat the above procedure.

OPERATION

When connected to standard 110-120 VAC power, the receiver operates on commands from the transmitter or from the slide switch on the face of the receiver.

ON: will manually turn on the appliance.

REMOTE: will allow use of the thermostat. If the system does not respond to the thermostat on initial use, check the battery positions in the thermostat. If that does not work, see the SECURITY CODE section.

OFF : will disable the receiver.

It is suggested that the slide switch be placed in the OFF position if you will be away from your home for an extended period of time. The receiver is manufactured with a "dry contact" relay in its circuitry that operates like an on/off switch. However, no power or current passes from the 110-120 VAC input side to the wires leading from the output side of the receiver.

WIRING

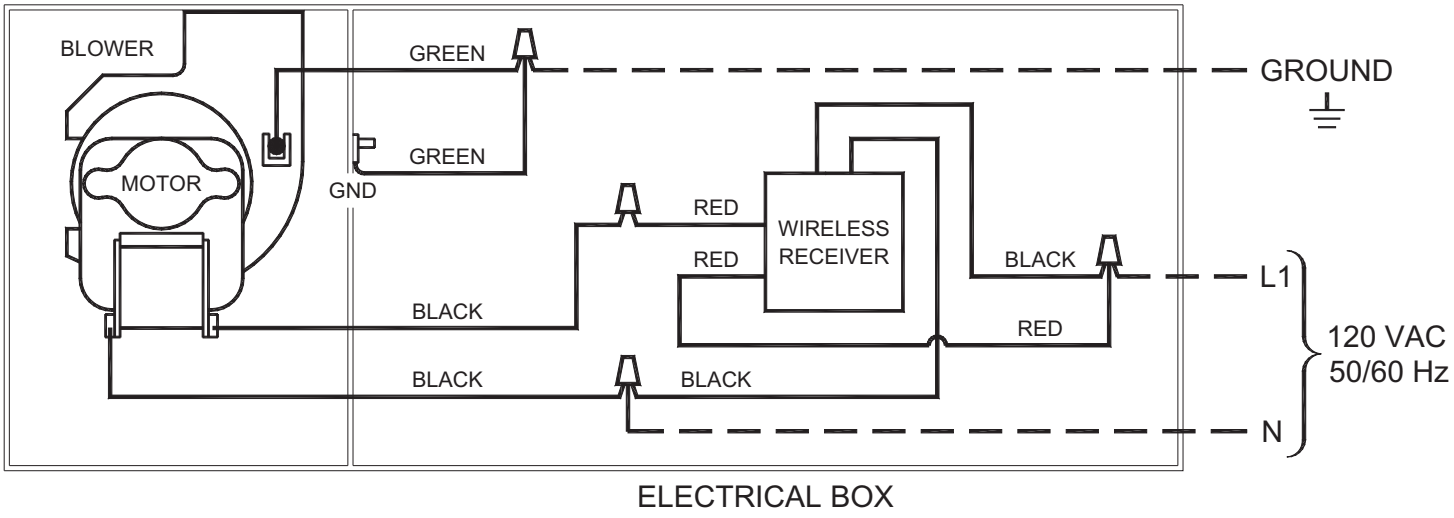
Before installation, make sure you turn the slide switch to OFF. After installation, make sure you turn the slide switch to REMOTE.

Use the wires attached to the receiver to connect to the fan. Be sure that the connectors do not touch each other or other bare metal surfaces; this will cause the appliance to turn on. The connectors may be wrapped with electrical tape to prevent this.

Protection from extreme heat is very important. The remote receiver should be kept away from temperatures exceeding 130ºF. Extreme heat can cause damage, which is not covered under warranty.

FOR TJERNLUND AIRESHARE ROOM-TO-ROOM AND LEVEL-TO-LEVEL FANS
Locate receiver in electrical box of the transfer fan which is located to the side of the blower. Connect wires as show below based on the model of AireShare Transfer Fan you are wiring. Once wired, tuck receiver inside the electrical box with wires and attach electrical box cover. See fan instructions for installation of the blower assembly itself.

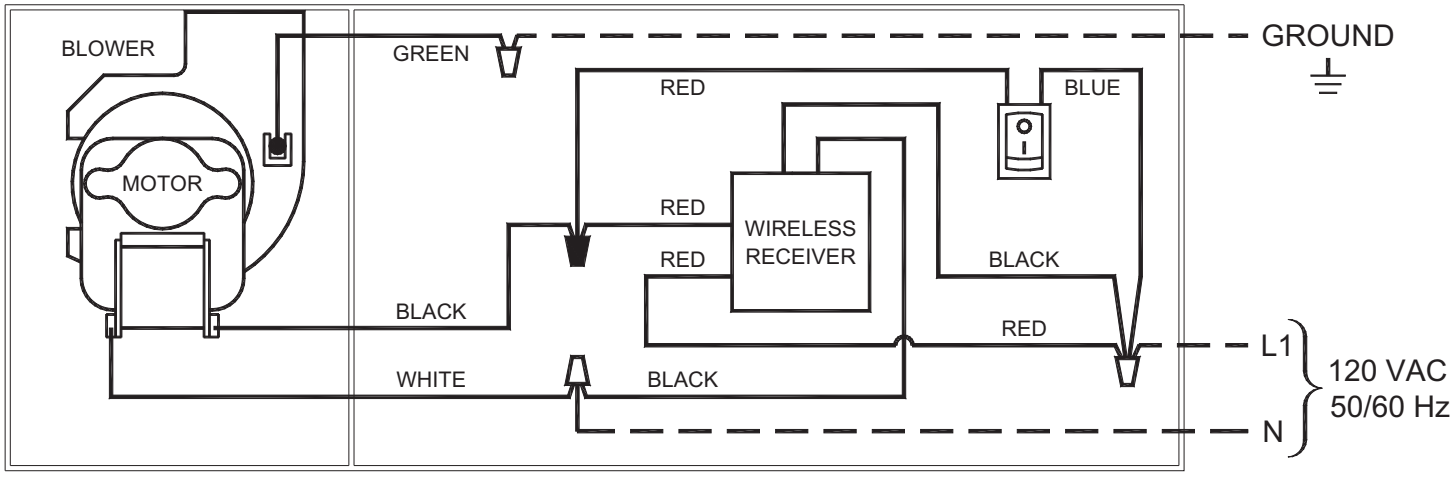
AIRESHARE™ MODEL AS1 WIRING CONNECTIONS



= WIRE NUTS SUPPLIED BY OTHERS

= WIRING SUPPLIED BY OTHERS

AIRESHARE™ MODEL ASLL WIRING CONNECTIONS



= WIRE NUTS SUPPLIED BY OTHERS

= FACTORY WIRE NUT CONNECTION

= WIRING SUPPLIED BY OTHERS

FOR GENERAL DEVICE INSTALLATIONS

SWITCH IT™ WIRELESS RECEIVER WIRING, 3 AMP MAX LOAD @ 120 VAC

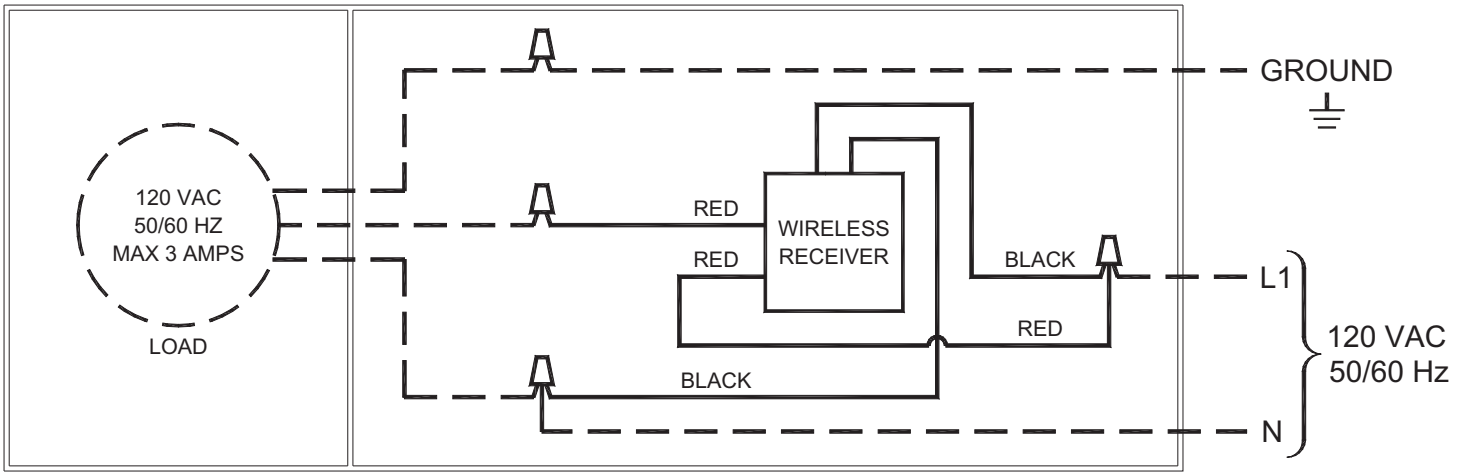


FIGURE 8050048 6/21/12

= WIRE NUTS SUPPLIED BY OTHERS

= WIRING AND LOAD SUPPLIED BY OTHERS

LEARNING TRANSMITTER TO RECEIVER

Each transmitter uses a unique security code. It will be necessary to press the LEARN button on the receiver to accept the transmitter security code upon initial use, if batteries are replaced, or if a replacement transmitter is purchased from your dealer or the factory. In order for the receiver to accept the transmitter security code, be sure the slide button on the receiver is in the REMOTE position; the receiver will not LEARN if the slide switch is in the ON or OFF position. The LEARN button in located on the front face of the receiver; inside the small hole labeled LEARN. Using a small screwdriver or end of a paperclip gently press and release the black LEARN button inside the hole. When you release the LEARN button the receiver will emit an audible “beep”. After the receiver emits the beep press the transmitter ON button and release. The receiver will emit several beeps indicating that the transmitter’s code has been accepted into the receiver.

The microprocessor that controls the security code matching procedure is controlled by a timing function. If you are unsuccessful in matching the security code on the first attempt, wait 1-2 minutes before trying again – this delay allows the microprocessor to reset its timer circuitry – and try up to two or three more times.

THERMO FUNCTION

When the transmitter is in the THERMO mode, it should be kept away from direct sources of heat such as fireplaces, incandescent lighting, and direct sunlight. Leaving the transmitter in direct sunlight, for example, will cause its heat-sensing diode to read the room temperature higher than it actually is; if in THERMO mode, it may not turn on the appliance even if the ambient ROOM temperature is below the SET temperature.

BATTERY LIFE

Life expectancy of alkaline batteries in the thermostat should be at least 12 months. Check and replace all batteries annually. When the the unit no longer operates or the receiver does not function at all, the batteries should be checked.

TROUBLESHOOTING

Should you encounter problems with your system, the problem may be with the fan orother device itself or it could be with the controls. Review the operation manual of the device to make sure all connections are properly made. Then check the operation of the remote in the following manner:

1. Be sure the thermostat batteries are properly installed and that the battery output is 2.4 volts each or more.
2. The thermostat has (2) 3 volt button cell batteries (1) button cell operates the LCD screen and the other button cell operates sending the RF signal. If the button cell battery that controls sending the RF signal is low or defective the LCD screen may work butthe RF signal may not be sending (Check each button cell battery)
3. Check to make sure the thermostat is communicating with the receiver.

• If the receiver beeps when the ON button is depressed on the thermostat they are communicating.

• If the receiver does not beep when the ON button is depressed on the wall transmitter, you will need to teach the receiver the code of the transmitter. This is done by holding the LEARN button down on the receiver (NOTE: The black slide Button covers the LEARN access hole when installed), and at the same time depress the ON button on the wall transmitter. A change in the beeping pattern, at the receiver indicates the transmitter's code has been programmed into the receiver.
4. Make sure the thermostat is within the 15 to 20-feet range of the receiver.
5. Positioning of the receiver is important. Reposition the receiver to improve operating range. NOTE: A receiver located in an area, where the ambient temperature inside the case exceeds 130 0F, will cause THERMOSAFETY feature to cut in, requiring you to reposition the receiver to stop the warning beeps, and to "reset" the receiver's operation.
6. Make sure the receiver is set to Remote on the slide adjustment and not On or Off.

SPECIFICATIONS

Batteries: Thermostat – 2ea. (CR2032) 3.0 volt lithium button cell batteries

Operating Frequency: 303.8MHZ Canadian IC ID No.'s: transmitter – (2439A-TSR2A) receiver – 2439A-3301RX

FCC REQUIREMENTS

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

TJERNLUND LIMITED 1 YEAR WARRANTY

Tjernlund Products, Inc. warrants to the original purchaser of this product that the product will be free from defects due to faulty material or workmanship for a period of (1) year from the date of original purchase or delivery to the original purchaser, whichever is earlier. Remedies under this warranty are limited to repairing or replacing, at our option, any product which shall, within the above stated warranty period, be returned to Tjernlund Products, Inc. at the address listed below, postage prepaid. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, AND TJERNLUND PRODUCTS, INC. EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF THIS PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND NO AGENT IS AUTHORIZED TO ASSUME FOR US ANY LIABILITY ADDITIONAL TO THOSE SET FORTH IN THIS LIMITED WARRANTY. IMPLIED WARRANTIES ARE LIMITED TO THE STATED DURATION OF THIS LIMITED WARRANTY. Some states do not allow limitation on how long an implied warranty lasts, so that limitation may not apply to you. In addition, some states do not allow the exclusion or limitation of incidental or consequential damages, so that above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Send all inquiries regarding warranty work to Tjernlund Products, Inc. 1601 9th Street, White Bear Lake, MN 55110-6794. Phone (651) 426-2993 • (800) 255-4208 • Fax (651) 426-9547 • Email fanmail@tjfans.com.