OT/EHR18-60

OUTDOOR THERMOSTAT & EMERGENCY HEAT RELAY

INSTALLATION INSTRUCTIONS

ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

RECOGNIZE THIS SYMBOL

AS A SAFETY PRECAUTION.

Description

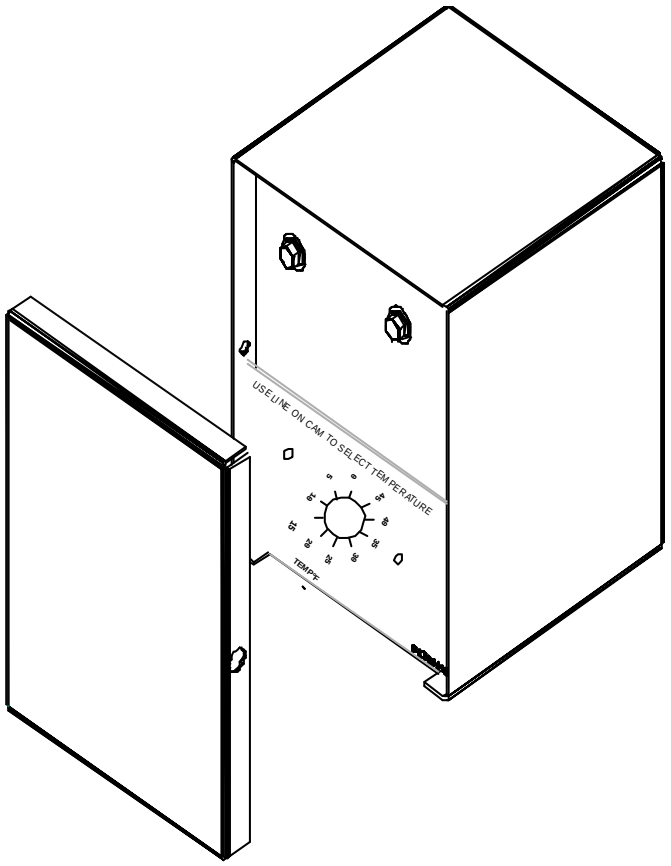
This unit doubles as an outdoor thermostat and emergency heat relay. The thermostat is a single pole double throw device that is adjustable from 0° to 45° Fahrenheit and is designed for applications with split or package cooling and heat pump products. The emergency heat relay will bypass the outdoor thermostat when the indoor thermostat is set to emergency heat operations

This kit may be utilized to lock out electric heat in the indoor unit. The kit can be used to lock out all stages of electric heat (one stage for 3kw to 10kw and both first and second stage in 15kw to 20kw). This kit can also lock out only second stage in electric heat units with two stages of electric heat. In this case the first stage of electric heat can be energized from the thermostat and the second stage locked out by the kit. By installing an emergency heat switch type thermostat the outdoor thermostat will be by-passed when the emergency heat is energized (E terminal).

WARNING

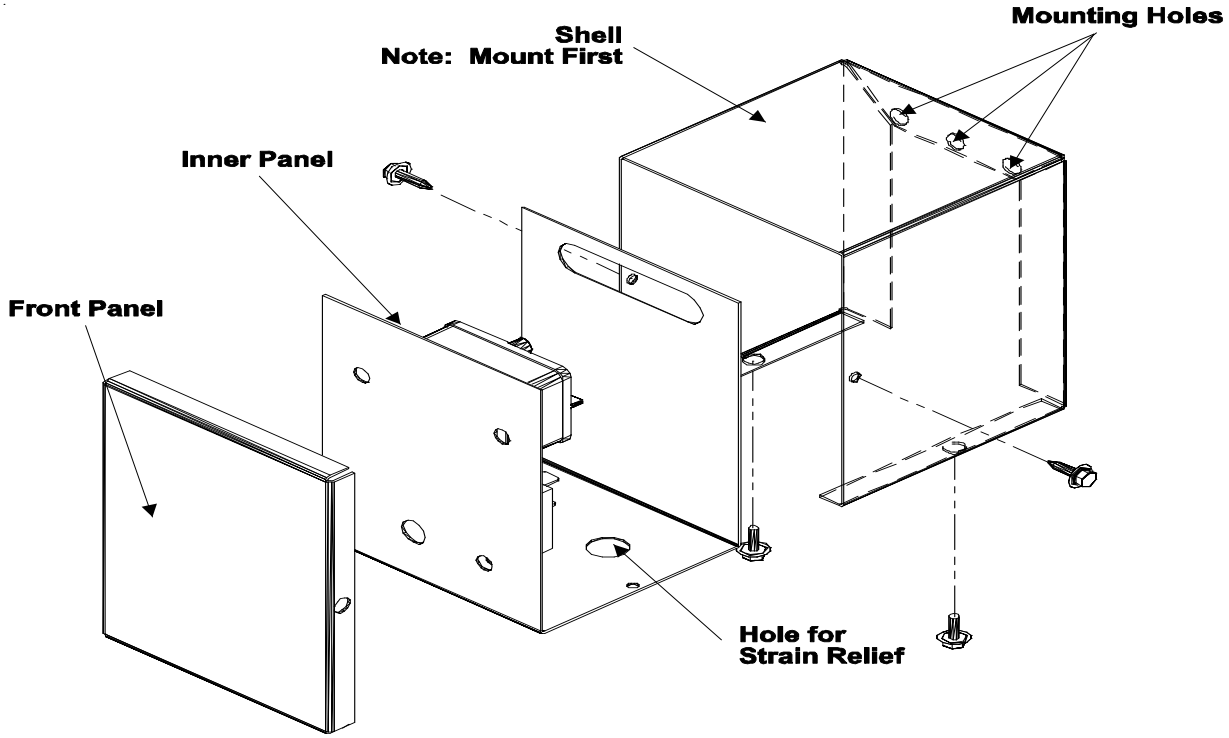
HIGH VOLTAGE

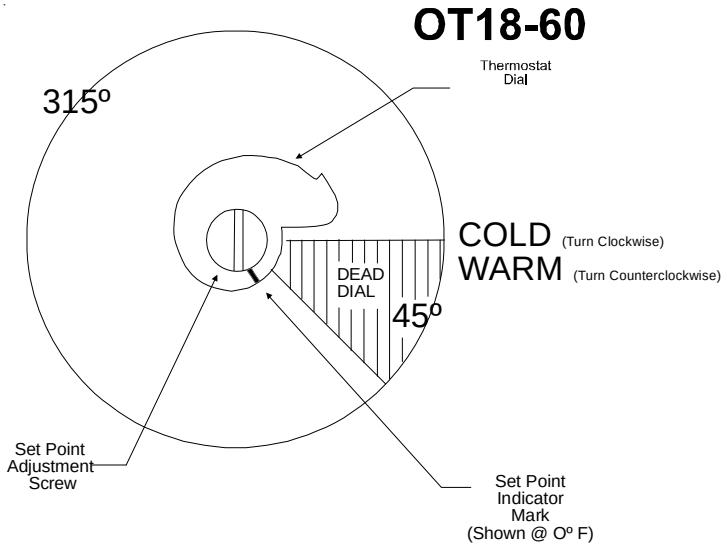
DISCONNECT ALL ELECTRICAL POWER BEFORE SERVICING OR INSTALLING THE OUTDOOR THERMOSTAT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



1. Remove entire contents of carton and familiarize yourself with all parts received. You should have four (4) blue wire nuts, one (1) .563 dia. strain relief bushing, two (2) blunt tipped hex head screws, and two (2) pointed tipped 3/8" screws.

2. Disassemble the three (3) parts of the kit (front panel, inner panel, and shell).
3. Locate position for installation of kit, and mount the shell using holes provided. When selecting location keep the box out of direct sunlight. Radiant heat may affect the proper function of the unit.
4. Insert thermostat wire through the bottom hole of the inner panel, giving yourself enough length to work comfortably. Using the wire nuts provided, connect the appropriate wires according to the wiring diagram on the inside of front panel.
5. Pull out any excess slack. Place the strain relief around the thermostat wire outside and close to the bottom of the inner panel. Using pliers, squeeze the bushing and snap into hole.
6. Slide the inner panel into the mounted shell, and attach from underneath using the two (2) blunt tipped hex head screws.
7. Using flat head screwdriver turn the thermostat dial to desired temperature setting. Use the line on the thermostat cam to select the temperature.
8. Attach front panel using the two (2) pointed 3/8" hex head screws.





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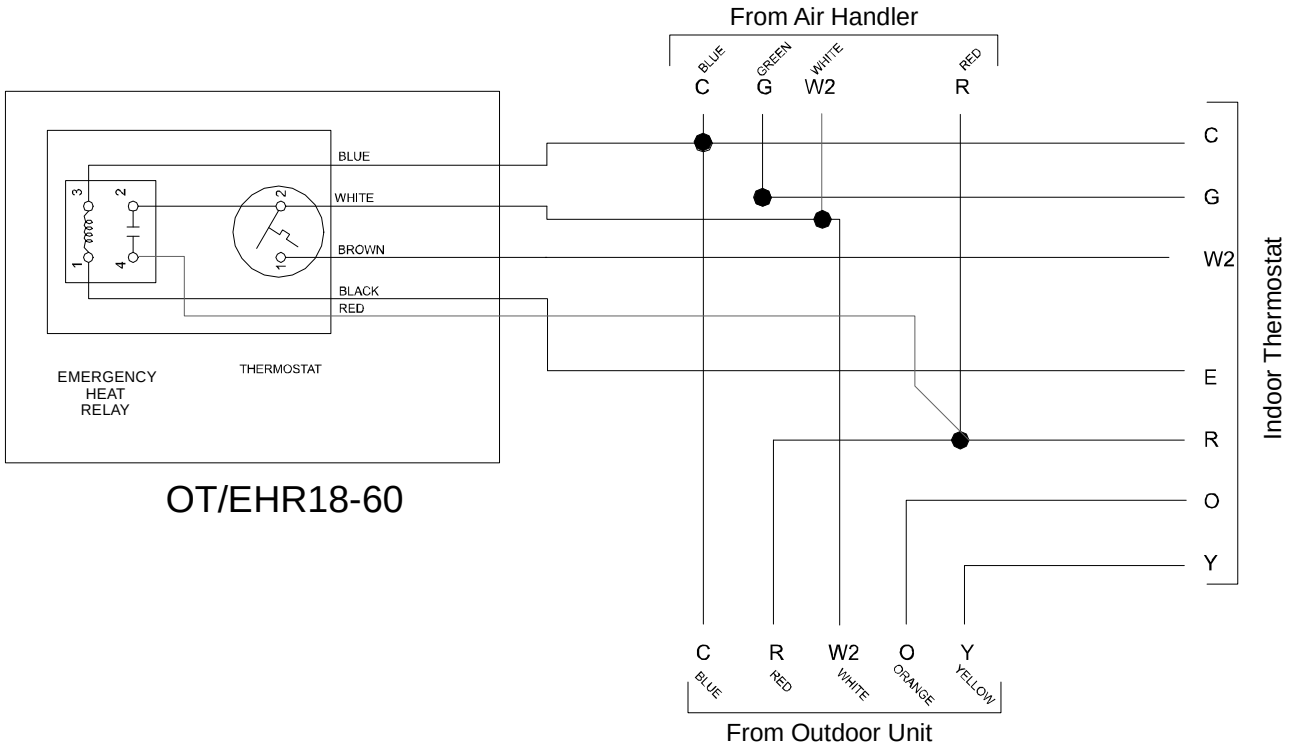
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

10kw and Below, One Stage Electric Heat



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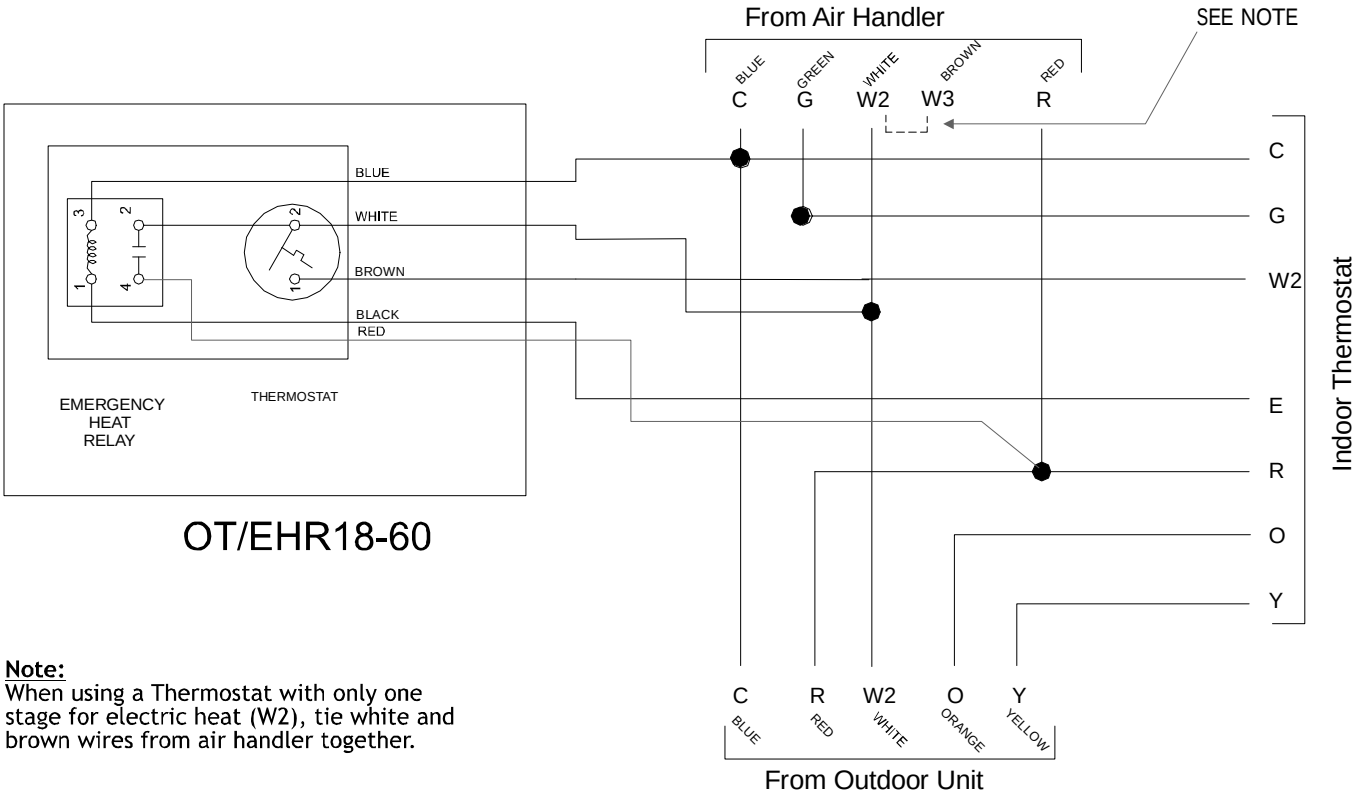
15kw and Above, Two Stage Electric Heat



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Note:
When using a Thermostat with only one stage for electric heat (W2), tie white and brown wires from air handler together.

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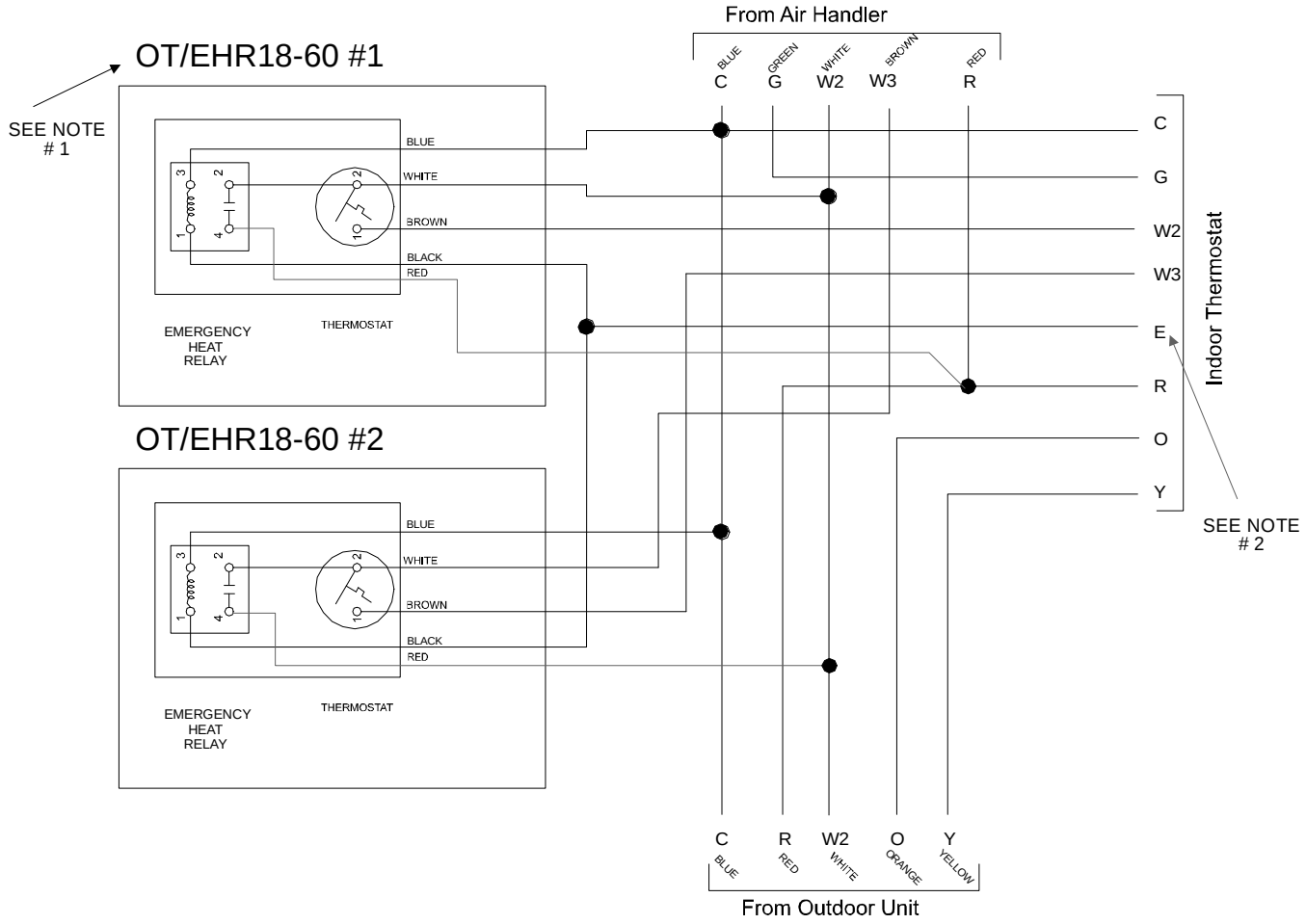
15kw and Above with Two OT/EHR18-60's, Two Stage Electric Heat and Two Stage Thermostat



Notes:

1. The outdoor thermostat in OT/EHR18-60 # 1 should be set to close first on temperature fall. The thermostat in OT/EHR18-60 # 2 should be set for a lower temperature than OT/EHR18-60 # 1.
2. When thermostat is switched to emergency heat mode, both stages of heat will be energized on a first stage heat demand. This will occur only in the emergency heat mode.
3. When using a thermostat with two stages for electric heat, W2 and W3, each stage can be independently locked off above a specific temperature set point during the normal heating mode.

NOTE: SPECIFICATIONS AND PERFORMANCE DATA LISTED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE

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