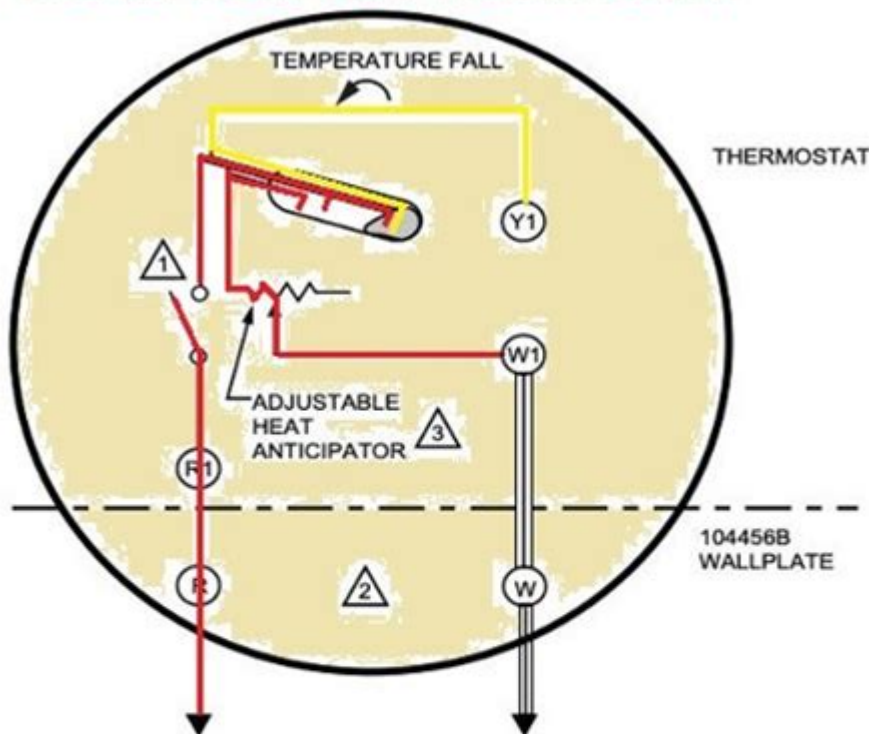


Wiring Old Honeywell Thermostat

HONEYWELL T87F THERMOSTAT



RED & WHITE THERMOSTAT WIRES - HEATING ONLY

- 1 MODEL WITH POSITIVE OFF SWITCH OPENS THE THERMOSTAT CIRCUIT WHEN SETPOINT DIAL IS MOVED TO THE OFF POSITION.
- 2 MAKE SYSTEM WIRING CONNECTIONS TO TERMINALS ON 104456B WALLPLATE.
- 3 R1, W1 TERMINALS ON THERMOSTAT ARE DIRECTLY CONNECTED TO R, W TERMINALS ON WALLPLATE WHEN THERMOSTAT IS MOUNTED ON WALLPLATE.

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Wiring an Old Honeywell Thermostat: A Comprehensive Guide

Are you staring at a tangle of wires connected to your old Honeywell thermostat, feeling overwhelmed and unsure of how to proceed? Upgrading your thermostat can significantly improve your home's energy efficiency and comfort, but the wiring can seem daunting. This comprehensive guide will walk you through the process of wiring an old Honeywell thermostat, providing clear instructions and helpful tips to ensure a successful installation. We'll cover identifying your thermostat model, understanding the wiring configuration, and safely connecting the wires to your new system. Let's get started and conquer that wiring challenge!

Identifying Your Old Honeywell Thermostat Model

Before you even think about touching those wires, the first crucial step is identifying your specific Honeywell thermostat model. This information is critical because wiring diagrams vary significantly between models. Usually, the model number is printed on a sticker on the thermostat itself. Take a clear picture of this sticker; you'll need this later for referencing the correct wiring diagram. If you can't find the sticker, try searching online using any visible markings or identifying features. Knowing your model allows you to find the official Honeywell wiring diagram, which is far more reliable than generic guides.

Locating the Wiring Diagram

Once you have the model number, you can easily find the corresponding wiring diagram. Honeywell's website is an excellent resource, offering diagrams for most of their older models. Alternatively, a quick online search using your model number will likely yield results leading to the correct diagram. Download and print the diagram; having a physical copy is much easier to work with than a screen. Make sure the diagram is for your specific model, as even slight variations in model numbers can have different wiring configurations.

Understanding the Wiring Colors and Their Functions

Thermostat wiring can seem like a cryptic code, but once you understand the common color codes and their functions, it becomes much more manageable. While colors can vary slightly, here's a general overview of the common wires you'll encounter:

Common Wire Colors and Functions:

Red (R): This is the power wire, supplying 24 volts AC to the thermostat.

Green (G): This is usually the fan wire, controlling the operation of your HVAC system's blower motor.

Yellow (Y): This is typically the cooling wire, activating the air conditioner compressor.

White (W): This is generally the heating wire, turning on your furnace or heat pump.

Blue (B): This wire is usually for auxiliary heat, often found in heat pumps.

Orange (O/B): This wire can have multiple functions, frequently used for a second stage of heating or cooling.

Brown (C): This is the common wire; it provides a continuous power supply to the thermostat's electronics. Its absence can cause functionality issues.

Important Note: Always double-check your specific wiring diagram, as some systems might have different color codes or functions assigned to the wires.

Step-by-Step Guide to Wiring Your Old Honeywell Thermostat

Now that you understand the basics, let's get into the actual wiring process. This is where careful attention to detail is crucial.

1. Turning Off the Power:

Crucially, before you begin any wiring work, always turn off the power to your HVAC system at the breaker box. This is a critical safety precaution to prevent electric shock.

2. Removing the Old Thermostat:

Gently remove the old Honeywell thermostat from the wall plate. Usually, this involves loosening screws or gently prying the thermostat free. Take note of the wire positions before disconnecting anything.

3. Carefully Labeling the Wires:

This is perhaps the most vital step to avoid confusion. Use a permanent marker or masking tape to clearly label each wire with its corresponding letter (R, G, Y, W, B, O/B, C). This ensures accurate reconnection to the new thermostat. Take pictures as a backup.

4. Connecting the Wires to the New Thermostat:

Use your wiring diagram as a guide to connect the labeled wires to the corresponding terminals on your new thermostat. Ensure a snug connection to avoid loose contacts.

5. Mounting the New Thermostat:

Once all the wires are connected, carefully mount the new thermostat to the wall plate, ensuring it's securely fastened.

6. Turning the Power Back On:

After mounting, turn the power back on at the breaker box and test the new thermostat. Make sure your heating and cooling systems function correctly.

Troubleshooting Common Wiring Problems

If your new thermostat isn't functioning correctly, the first step is to double-check your wiring against the diagram. A common issue is incorrect wire connections. If the problem persists, check for blown fuses or tripped breakers. If you are still having problems, consider seeking professional help.

Conclusion

Wiring an old Honeywell thermostat can seem intimidating, but with careful planning, attention to detail, and the right tools, it's a manageable task. Remember to prioritize safety by turning off the power before starting, carefully label all wires, and always consult your specific wiring diagram. Following these steps will help you successfully upgrade your thermostat and enjoy the benefits of a more efficient and comfortable home environment.

Frequently Asked Questions

1. Can I wire a new thermostat without professional help? While possible for many, if you are uncomfortable with electrical work or unsure about any step, it's best to call a qualified HVAC technician.
2. What happens if I connect the wires incorrectly? Incorrect wiring can lead to malfunctioning heating or cooling systems, potential damage to your equipment, and even electrical hazards.
3. Where can I find a wiring diagram for my specific Honeywell thermostat model? Honeywell's official website is a great starting point, or a simple online search using the model number should provide results.
4. My old thermostat has more wires than my new one; what should I do? Some older systems might have extra wires not needed in modern thermostats. Consult a professional or your new thermostat's documentation for guidance.

5. My thermostat isn't working after installation; what are the first troubleshooting steps? Recheck your wiring against the diagram, ensuring all connections are secure, then check your circuit breaker for any tripped breakers or blown fuses.

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