

American Range R10005

American Range Thermostat R10005 for ARR-Series Ovens

Genuine OEM Replacement Part Instruction Manual

1. INTRODUCTION

This manual provides essential information for the American Range R10005 Thermostat, designed as a genuine OEM replacement part for American Range ARR-Series ovens. This thermostat is crucial for maintaining precise temperature control within your oven, ensuring optimal performance and safety. Using genuine OEM parts helps ensure compatibility, reliability, and adherence to original equipment specifications.

2. SAFETY INFORMATION

WARNING: Before attempting any installation or maintenance, ensure the appliance is completely disconnected from its power source. Failure to do so can result in electric shock, serious injury, or death.

- Always disconnect power to the appliance before servicing.
- Installation should only be performed by a qualified and experienced technician.
- Wear appropriate personal protective equipment (PPE) during installation and handling.
- Ensure all connections are secure and properly insulated after installation.
- Verify proper operation and temperature calibration after installation before returning the appliance to service.

3. PRODUCT OVERVIEW

The American Range R10005 Thermostat is a critical component responsible for regulating the temperature within your ARR-Series oven. It consists of a control unit, a capillary tube, and a temperature-sensing bulb. The thermostat works by sensing the oven's internal temperature and adjusting the heat supply to maintain the desired setting. This genuine OEM part is manufactured to the exact specifications of your original equipment, ensuring seamless integration and performance.



Figure 1: American Range R10005 Oven Thermostat. This image displays the American Range R10005 oven thermostat, featuring a compact control unit with a shaft for a knob attachment, and a long, coiled capillary tube ending in a temperature sensing bulb. The components are designed for precise temperature regulation within an oven.

4. INSTALLATION

Professional installation is highly recommended for this component to ensure safety and proper functionality.

1. **Preparation:** Ensure the oven is completely cool and disconnected from all power sources (gas and electric).
2. **Access:** Carefully access the existing thermostat. This may involve removing control panels, oven racks, or other components depending on your specific ARR-Series oven model. Refer to your oven's service manual for detailed access instructions.
3. **Disconnection:** Note the wiring connections and the routing of the capillary tube and sensing bulb. Take photographs if necessary for reference. Disconnect the electrical wiring and carefully remove the old thermostat, including its sensing bulb from its mounting location.
4. **Installation of New Thermostat:** Install the new R10005 thermostat in the reverse order of removal. Ensure the sensing bulb is correctly positioned within the oven cavity as per the original design. Secure all mounting hardware.
5. **Wiring:** Reconnect the electrical wiring to the new thermostat, ensuring all connections are tight and correct according to your reference photos or wiring diagrams.
6. **Reassembly:** Reassemble any panels or components that were removed to access the thermostat.

7. **Testing:** Restore power to the oven. Perform a functional test to verify the thermostat operates correctly and maintains the desired temperature. Calibration may be required.

5. OPERATING PRINCIPLES

The R10005 thermostat functions as the primary temperature control for your American Range ARR-Series oven. Once installed, it works in conjunction with the oven's control knob to allow the user to select a desired cooking temperature. The thermostat's sensing bulb continuously monitors the internal oven temperature. When the oven temperature falls below the set point, the thermostat signals the heating elements (or gas valve) to activate. Once the temperature reaches the set point, the thermostat signals the heating elements to cycle off. This cycling action maintains a consistent temperature for cooking.

6. MAINTENANCE

The American Range R10005 thermostat is designed for durability and reliable performance. Regular maintenance of the thermostat itself is generally not required beyond ensuring its proper installation and function. However, general oven maintenance can contribute to the longevity and accuracy of the thermostat:

- **Keep Oven Clean:** Regularly clean the oven interior to prevent grease and food debris buildup, which can affect temperature distribution and thermostat accuracy.
- **Inspect Wiring:** Periodically inspect the thermostat's wiring connections for any signs of wear, corrosion, or looseness.
- **Avoid Physical Damage:** Ensure the thermostat's capillary tube and sensing bulb are not bent, kinked, or otherwise damaged during oven cleaning or other maintenance.

7. TROUBLESHOOTING

If your oven is experiencing temperature control issues after thermostat replacement, consider the following:

- **Inaccurate Temperature:** If the oven temperature is consistently too high or too low, the thermostat may require calibration. Consult a qualified technician for calibration procedures specific to your oven model.
- **Oven Not Heating:** Check all electrical connections to the thermostat and heating elements. Ensure the oven's circuit breaker has not tripped. Verify the thermostat's sensing bulb is correctly positioned and undamaged.
- **Oven Overheating:** This could indicate a faulty thermostat that is not cycling off the heating elements. Immediately disconnect power to the oven and contact a qualified technician.
- **Intermittent Heating:** Loose wiring connections or a partially damaged capillary tube could cause inconsistent temperature regulation.

For complex issues, it is always recommended to consult a certified appliance technician.

8. SPECIFICATIONS

Specification	Detail
Brand	American Range
Model Number	R10005

Part Type	Oven Thermostat
Compatibility	American Range ARR-Series Ovens
Voltage	24 Volts
Item Weight	0.49 Pounds (approx. 7.8 ounces)
Product Dimensions	5 x 11 x 13 inches (packaging)
UPC	046840443201, 782247824877

9. WARRANTY INFORMATION

This American Range R10005 Thermostat is a genuine OEM replacement part. While specific warranty details for the part itself may vary, using genuine OEM parts is crucial for maintaining the warranty of your American Range appliance. Non-OEM parts may void your appliance's warranty and could lead to performance or safety issues. Please refer to your original American Range oven's warranty documentation for details regarding coverage and terms.

10. SUPPORT AND CONTACT

For technical assistance, installation guidance, or to inquire about service, please contact American Range customer support or a certified service technician. You can typically find contact information on the American Range official website or within your appliance's original user manual.

For general inquiries or to locate authorized service providers, visit the [American Range official website](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question