

YORK S1-03101264002

York Furnace Control Circuit Board S1-03101264002: Installation and Operation Manual

Model: S1-03101264002 | Brand: YORK

1. IMPORTANT SAFETY INFORMATION

WARNING: Installation and servicing of heating, ventilation, and air conditioning (HVAC) equipment can be hazardous due to system pressure, electrical components, and equipment location. Only qualified, trained, and experienced service personnel should install, repair, or service HVAC equipment. Failure to follow these instructions could result in property damage, personal injury, or death.

- Always disconnect all electrical power to the furnace before installing or servicing this control board.
- Verify proper wiring connections according to the furnace manufacturer's specifications.
- Ensure all safety devices are correctly installed and functioning after replacement.
- Wear appropriate personal protective equipment (PPE) during installation.

2. PRODUCT OVERVIEW

The York Furnace Control Circuit Board S1-03101264002 is an OEM (Original Equipment Manufacturer) upgraded replacement part designed for specific York furnace models. This board serves as the central control unit for your furnace, managing various functions such as ignition, fan operation, and safety shutdowns.



Figure 1: York Furnace Control Circuit Board S1-03101264002. This image displays the circuit board with various electronic components, connectors, and relays.

3. INSTALLATION INSTRUCTIONS

These instructions provide a general guide for replacing a furnace control board. Always refer to your specific furnace model's service manual for detailed, model-specific instructions.

1. **Power Disconnection:** Turn off all electrical power to the furnace at the main service panel. Verify power is off using a voltage meter.
2. **Access the Control Board:** Locate and open the furnace access panel to expose the existing control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs of all wiring connections to the old board. Label each wire and its corresponding terminal for accurate reinstallation.
4. **Disconnect Wires:** Carefully disconnect all wires and connectors from the old control board.
5. **Remove Old Board:** Unscrew or unclip the old control board from its mounting location.
6. **Install New Board:** Mount the new York S1-03101264002 control board in the same position as the old one.
7. **Reconnect Wires:** Using your photographs and labels, carefully reconnect all wires and connectors to the new board. Ensure all connections are secure.
8. **Close Access Panel:** Securely close the furnace access panel.
9. **Restore Power:** Restore electrical power to the furnace at the main service panel.
10. **Test Operation:** Initiate a heating cycle and observe the furnace's operation to ensure all functions (ignition, fan, etc.) are working correctly.

4. OPERATING PRINCIPLES

The control board operates by receiving signals from the thermostat and various safety sensors within the furnace. It then initiates the appropriate sequence of operations for heating or cooling.

- **Ignition Control:** Manages the sequence for igniting the burners.

- **Blower Fan Control:** Activates and deactivates the indoor blower fan for air circulation.
- **Safety Monitoring:** Continuously monitors safety limits and sensors, shutting down the furnace if an unsafe condition is detected.
- **Diagnostic Codes:** Many control boards feature LED indicators that flash diagnostic codes to assist in troubleshooting. Refer to your furnace manual for specific code interpretations.

5. MAINTENANCE

The control board itself requires no routine maintenance. However, ensuring the overall furnace system is well-maintained can prolong the life of all components, including the control board.

- **Regular Filter Replacement:** Replace or clean your furnace air filter regularly to ensure proper airflow and prevent overheating, which can stress electronic components.
- **Annual Professional Inspection:** Have a qualified HVAC technician inspect your furnace annually. They can identify potential issues before they lead to component failure.
- **Keep Area Clear:** Ensure the area around the furnace is free from obstructions and combustible materials.

6. TROUBLESHOOTING

Before attempting any troubleshooting, ensure all power to the furnace is disconnected. If you are unsure about any step, contact a qualified HVAC technician.

Common Issues and Potential Solutions:

- **Furnace Not Starting:**
 - Check thermostat settings.
 - Verify power supply to the furnace.
 - Inspect furnace filter for blockage.
 - Check for tripped circuit breakers.
 - Consult your furnace manual for diagnostic codes displayed on the control board.
- **Blower Fan Runs Continuously:**
 - Ensure thermostat fan setting is on "Auto" and not "On".
 - A faulty fan relay on the control board or a stuck limit switch could be the cause. Professional diagnosis is recommended.
- **Intermittent Operation:**
 - Loose wiring connections.
 - Faulty safety sensors (e.g., flame sensor, limit switch).
 - Power fluctuations.

For complex issues or if basic troubleshooting does not resolve the problem, it is strongly recommended to contact a certified HVAC technician.

7. SPECIFICATIONS

Feature	Detail
Brand	YORK

Model Number	S1-03101264002 (OEM Upgraded Replacement)
Product Dimensions	8 x 6 x 10 inches
Item Weight	8 ounces
Manufacturer	York
First Available Date	August 9, 2013

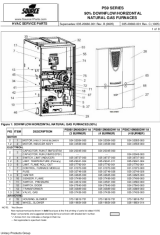


8. WARRANTY INFORMATION

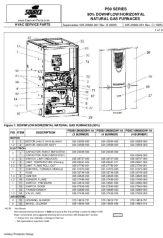
Specific warranty terms for the York Furnace Control Circuit Board S1-03101264002 may vary depending on the seller and date of purchase. It is recommended to retain your proof of purchase and consult the seller or manufacturer's official documentation for detailed warranty coverage and claim procedures.

9. SUPPORT

For technical assistance, installation guidance, or troubleshooting beyond the scope of this manual, please contact a qualified HVAC professional or refer to the official York customer support channels.

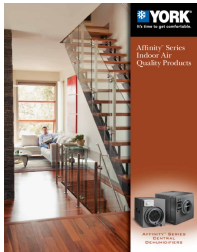
Related Documents - S1-03101264002

	<p>York PS9 Series Natural Gas Furnaces Parts List and Diagrams</p> <p>Comprehensive parts list and component diagrams for York PS9 Series 90% Downflow/Horizontal Natural Gas Furnaces, including model numbers PS9B12N060DH11A, PS9B12N080DH11A, PS9C16N080DH11A, PS9C16N100DH11A, PS9C20N100DH11A, and PS9D20N120DH11A.</p>
	<p>York DGAA & DGAH High Efficiency Gas Furnace: User, Maintenance, and Service Manual</p> <p>Comprehensive guide for York DGAA and DGAH High Efficiency Sealed Combustion Gas Furnaces, covering safety, installation, operation, maintenance, troubleshooting, and parts.</p>
	<p>York TM9E Series Residential Gas Furnace Installation Manual</p> <p>Comprehensive installation manual for York TM9E Series single-stage ECM residential gas furnaces. Covers safety, ductwork, gas piping, electrical, venting, start-up, and diagnostics for these high-efficiency HVAC units.</p>



[York PS9 Series 90% Downflow/Horizontal Natural Gas Furnaces Parts List](#)

Comprehensive parts list and diagrams for York PS9 Series 90% Downflow/Horizontal Natural Gas Furnaces, including model numbers PS9B12N060DH11A, PS9B12N080DH11A, PS9C16N080DH11A, PS9C16N100DH11A, PS9C20N100DH11A, and PS9D20N120DH11A. Features component identification and part numbers.



[York Affinity Series Central Dehumidifiers: Whole-Home Humidity Control & Air Quality](#)

Discover the York Affinity Series Central Dehumidifiers, designed to enhance your home's indoor air quality by effectively managing humidity. Learn how these units provide whole-home comfort, protect against mold and allergens, prevent structural damage, and offer energy savings. Features include easy maintenance and a 5-year warranty. Explore sizing guidelines and installation options.



[York Residential Multi-position Gas Furnaces \(33" Models\) User's Information Manual](#)

This user's information manual provides comprehensive guidance for York residential multi-position gas furnaces, 33-inch models. It covers essential safety precautions, installation examination, start-up and shutdown procedures, operating instructions, maintenance guidelines, troubleshooting, and warranty details. The manual is designed for homeowners and service professionals, ensuring safe and efficient operation of the furnace.