

## Trane KIT18110

# Trane KIT18110 OEM Upgraded Furnace Control Board Kit Instruction Manual

Model: KIT18110

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Trane KIT18110 OEM Upgraded Furnace Control Board Kit. This kit is designed as an American Standard / Trane OEM component for furnace units built after 1995. It includes the control board (CNT07541), ignitor, wire harness, and bracket.

**Important Note:** For downflow units built in 1999 and earlier, use KIT18109. For all other units built after 1995, use KIT18110.

## 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 trained and qualified service personnel should install, repair, or service HVAC equipment.

- Always disconnect all power to the furnace before installing or servicing the control board. Failure to do so can result in electrical shock, personal injury, or death.
- Ensure proper grounding of the furnace and all electrical components.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Verify all wiring connections are secure and correct according to the furnace manufacturer's specifications and local electrical codes.
- Do not bypass any safety devices.

## PACKAGE CONTENTS

The Trane KIT18110 kit typically includes the following components:

- Integrated Furnace Control Board (CNT07541)
- Ignitor

- Wire Harness
- Mounting Bracket
- Installation Instructions



Image: The Trane KIT18110 furnace control board kit, showing the main circuit board, ignitor, and mounting hardware.

## COMPATIBILITY

This kit is an OEM replacement for various American Standard and Trane units built after 1995. It supersedes several older control board models. Always verify compatibility with your specific furnace model before installation.

### Replaces / Supersedes Part Numbers:

- CNT-2854 / CNT02854
- CNT-3076 / CNT03076
- CNT-3798 / CNT03798
- CNT-5164 / CNT05164
- CNT-5165 / CNT05165
- CNT-5995 / CNT05995
- BAF00359 / BAF0359 / BAF-0359
- CNT05885 / CNT-5885
- CNT03604 / CNT-3604
- CNT07541 / CNT7541 / CNT-7541
- 50A65-475 / 50A65-475-07
- D341396P05 / D341396P03 / D341213P01 / D341396P01
- 50A65-120 / 50A65-143 / 50A65-288
- And many others.

### Commonly Found in Models:

This kit is commonly found in the following A/TDX and A/TUX Gas Furnace Models:

- AUH1B040A9241AA, AUH1B040A9241AB
- AUH1B060A9361AA, AUH1B060A9361AB
- AUH1B080A9421AA, AUH1B080A9421BA, AUH1B080A9421BB
- AUH1C080A9601AA, AUH1C100A9481AA
- AUH1D100A9601AA, AUH1D120A9601AA
- TUH1B040A9241AA, TUH1B040A9241AB
- TUH1B060A9361AA, TUH1B060A9361AB
- TUH1B080A9421AA, TUH1B080A9421BA, TUH1B080A9421BB
- TUH1C080A9601AA, TUH1C100A9481AA
- TUH1D100A9601AA, TUH1D120A9601AA



Image: A stamp indicating "Trane OEM Component," signifying genuine parts.

## INSTALLATION / SETUP

This procedure is intended for qualified technicians. Refer to your furnace's specific service manual for detailed wiring diagrams and safety precautions.

1. **Power Disconnection:** Locate the main power switch for your furnace and turn it OFF. Additionally, turn off power at the circuit breaker or fuse box. Verify power is off using a voltage meter.
2. **Access Control Board:** Open the furnace access panel to expose the existing control board.
3. **Document Wiring:** Before disconnecting any wires, take clear photographs of all existing wiring connections to the old control board. Label wires if necessary to ensure correct re-connection.
4. **Disconnect Wires:** Carefully disconnect all wires 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 Trane KIT18110 control board using the provided bracket and

screws. Ensure it is securely fastened.

7. **Connect Wiring:** Refer to your photographs and the wiring diagram in your furnace manual to connect all wires to the new control board. Pay close attention to terminal markings (e.g., R, W, Y, G, C).
8. **Install Ignitor:** Replace the old ignitor with the new one provided in the kit, ensuring proper seating and connection to the control board via the wire harness.
9. **Secure Panels:** Close and secure all furnace access panels.
10. **Restore Power:** Restore power to the furnace at the circuit breaker or fuse box, then turn on the main power switch for the furnace.
11. **Test Operation:** Initiate a heating cycle to verify proper furnace operation, including ignition, fan operation, and temperature control. Observe for any error codes or unusual behavior.

## OPERATION

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The Trane KIT18110 control board is an integrated furnace control that manages the sequence of operation for your furnace. Once correctly installed, it will automatically control the ignition, fan, and safety functions based on signals from the thermostat and internal sensors. No direct user interaction with the control board is required for normal operation.

Refer to your furnace's user manual for instructions on setting your thermostat and general furnace operation.

## MAINTENANCE

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The control board itself typically requires no routine maintenance. However, regular maintenance of your furnace system is crucial for its longevity and efficient operation. This includes:

- **Filter Replacement:** Replace or clean your furnace air filter regularly (monthly or as recommended by your furnace manufacturer).
- **Annual Inspections:** Schedule annual professional inspections and tune-ups for your furnace.
- **Clear Vents:** Ensure all supply and return air vents are unobstructed.
- **Clean Burners:** Keep burner areas clean and free of debris.

Always disconnect power before performing any maintenance on the furnace.

## TROUBLESHOOTING

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The control board features diagnostic LED indicators that can help identify system faults. Consult your furnace's service manual for a detailed list of error codes and their meanings. Common issues and initial checks include:

- **No Heat / No Power:**
  - Check if the furnace power switch is ON.
  - Verify the circuit breaker for the furnace has not tripped.
  - Ensure the thermostat is set to "Heat" and the temperature is above the ambient room temperature.
  - Check for a blown fuse on the control board (if applicable).
- **Furnace Not Igniting:**

- Check the ignitor for cracks or damage.
- Ensure the gas supply valve is open.
- Verify the flame sensor is clean and properly positioned.
- **Fan Not Running:**
  - Check if the thermostat fan setting is on "Auto" or "On".
  - Ensure the air filter is not excessively dirty, restricting airflow.
- **Error Codes:** Observe the diagnostic LED on the control board. Count the flashes or refer to the specific pattern to identify the fault code. Consult your furnace manual for the corresponding issue and recommended solution.

If you are unable to resolve an issue, contact a qualified HVAC technician.

## SPECIFICATIONS







Item Model Number	KIT18110
Manufacturer	Trane
Compatibility	American Standard / Trane units built after 1995
Kit Includes	Control Board (CNT07541), Ignitor, Wire Harness, Bracket
Package Dimensions	12.09 x 7.2 x 5.08 inches
Item Weight	15.17 ounces

## WARRANTY INFORMATION

Specific warranty details for the Trane KIT18110 control board kit are typically provided by the point of purchase or Trane directly. It is recommended to retain your purchase receipt and consult the official Trane warranty documentation for your specific product. Generally, OEM parts carry a limited warranty against manufacturing defects.

## SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your authorized Trane dealer or a qualified HVAC service professional. You may also visit the official Trane website for additional resources and contact information.

<p>Installation, Operation, and Maintenance</p>  <p>July 2019 S8VS-SVX001-10-EN</p>	<p><a href="#">Trane &amp; American Standard S8 Series Gas Furnace Installation, Operation, and Maintenance Manual</a></p> <p>Comprehensive guide for the installation, operation, and maintenance of Trane and American Standard S8 Series Upflow/Downflow/Horizontal Gas-Fired 1-Stage and 2-Stage Induced Draft Furnaces with High Efficiency Motor. Includes safety warnings, specifications, wiring diagrams, and troubleshooting.</p>
<p>Installation, Operation, and Maintenance</p>  <p>July 2019 S9V2-VS-SVX001-10-EN</p>	<p><a href="#">Trane S9V2 Series Gas Furnace: Installation, Operation, and Maintenance Manual</a></p> <p>Comprehensive guide for installing, operating, and maintaining Trane and American Standard S9V2 series 2-stage condensing variable speed gas furnaces. Covers safety, installation procedures, specifications, and troubleshooting.</p>
 <p>July 2019</p>	<p><a href="#">Trane &amp; American Standard IFC Board Failure Service Bulletin - MANDATORY Rework</a></p> <p>Official service bulletin from Trane and American Standard regarding Integrated Furnace Control (IFC) board failures in specific furnace models. Details error code 5, affected models, and mandatory rework instructions.</p>
<p>Installation, Operation, and Maintenance</p>  <p>May 2012 A801X-SVX001-1A-EN</p>	<p><a href="#">Installation, Operation, and Maintenance Manual for Trane/American Standard A801X Series Gas Furnaces</a></p> <p>This comprehensive manual provides detailed instructions for the installation, operation, and maintenance of Trane and American Standard A801X series single-stage induced draft gas furnaces. It covers safety warnings, product specifications, installation guidelines, troubleshooting procedures, and periodic servicing requirements for various models.</p>
<p>Installation Instructions</p> <p>LP Conversion Kit</p> <p>Precedent™ Packaged Rooftop Units</p> <p>6 to 25 Tons</p>  <p>September 2005 ACC-DVND00-EN</p>	<p><a href="#">Trane LP Conversion Kit Installation Instructions for Precedent Rooftop Units</a></p> <p>Detailed installation instructions for converting Trane Precedent™ Packaged Rooftop Units (6 to 25 Tons) from natural gas to propane (LP) gas. Includes safety warnings, parts list, and step-by-step procedures for qualified personnel.</p>
<p>Installer's Guide</p>  <p>July 2014 13-000101-10-EN</p>	<p><a href="#">Trane Ultra-Low NOx Series Installer's Guide for Packaged Gas Heating/Electric Cooling Units</a></p> <p>This installer's guide provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of Trane Ultra-Low NOx Series single packaged gas heating and electric cooling units (2-5 Ton). It covers safety, requirements, electrical, gas, startup, and component details.</p>