

Instructions for NFC Replacement Control

THESE INSTALLATION INSTRUCTIONS PROVIDE STEPS IN THE REPLACEMENT OF THE FURNACE CONTROL BOARD

INSTALLATION

NOTE: Read the entire instruction manual before installing replacement control.

SAFETY CONSIDERATION

! NOTICE


MODEL NUMBER AND PROGRAM NUMBER

This control board must be programmed with the correct model program number to allow for proper operation.

Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained and qualified personnel should install, repair, or service heating equipment.

Untrained personnel can perform basic maintenance functions such as cleaning and replacing air filters. Trained service personnel must perform all other operations. When working on heating equipment, observe precautions in the literature, on tags, and on labels attached to or shipped with the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Have a fire extinguisher available during start-up, adjustment steps, and service calls.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the furnace and in instructions or manuals, be alert to the potential for personal injury. Understand the signal words DANGER, WARNING, CAUTION and NOTE. The words DANGER, WARNING, and CAUTION are used with the safety alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard which could result in personal injury or death. CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.


! WARNING

FIRE, EXPLOSION, ELECTRICAL SHOCK, AND CARBON MONOXIDE POISONING HAZARD

The ability to properly perform service on this equipment requires certain expertise, mechanical skills, tools, and equipment. If you do not possess these, do not attempt to perform any service on this equipment other than those procedures recommended in the Owner's Manual. A failure to follow this warning could result in possible damage to this equipment, serious personal injury, or death.

INTRODUCTION

Replacement controls are received blank and will need to be programmed to match the furnace model. This programming process may be completed by using the supported Service Tech or Fast Mobile Tech App or by using a Super Plug service tool. Super Plug service tool sold separately, available through your local parts distributor.

Failure to program the control results in No-Heat and generic airflow for cooling or continuous fan operation. Refer to furnace label or Installation Instructions for fault code information. Typically, a  fault code will be indicated on a control that has not been programmed.

PROGRAMMING

Programming using the Service Application

NOTE: Commissioning of the new control requires the furnace serial number (may be retrieved from failed furnace control) and access to the internet via a Wi-Fi or cellular connection.

NOTE: The control is NOT powered with line voltage when programming is done using the Service Tech App, and the programming process may be performed before installation of the control into the furnace.

1. Scan the QR code on page 1 of the furnace installation manual or on the upper left-hand corner of the furnace rating plate, [Fig. 1](#) for a link to download the mobile Service Tech App.
2. Open the mobile Service Tech App and access the "Connect to Equipment" menu item. Select "Replace Control Board" and follow the on-screen prompts for programming of the new control.

Programming using the Super Plug service tool

NOTE: The control must be powered to program using a Super Plug.


1. With power off, insert the Super Plug service tool into the port at PL5, see [Fig. 2](#).

! CAUTION



SHOCK HAZARD

Failure to follow this caution could result in personal injury.

Do not tape or permanently allow the door switch to be bypassed. Temporarily press the door switch with one hand while accessing the service buttons with your other hand. Do not touch uninsulated electrical components.

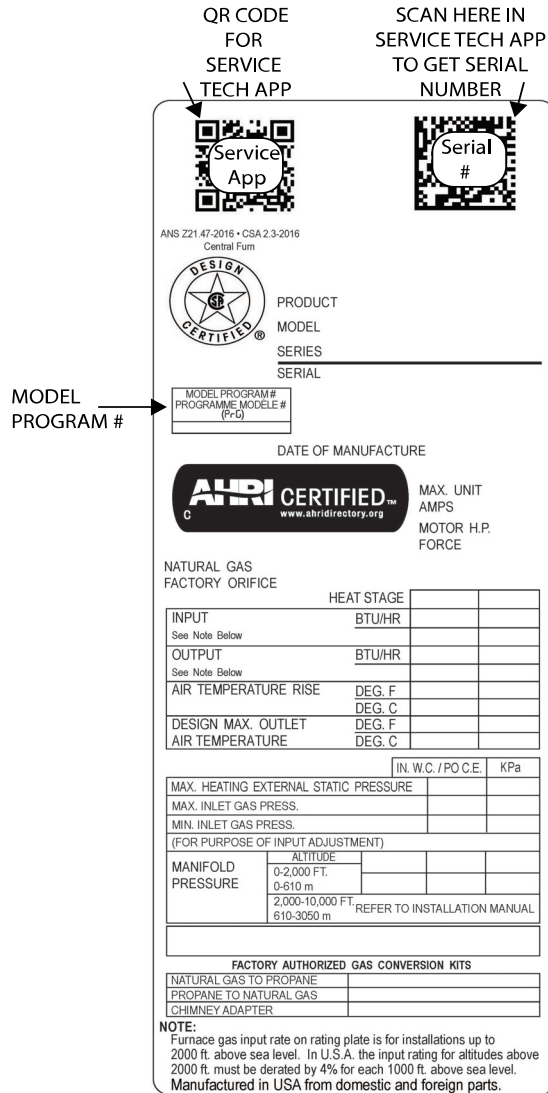
2. Apply power to the control by manually closing the door interlock (ILK) switch.
 - a.  will be displayed on the 7-segment display.
3. Press the NEXT button, see [Fig. 2](#), until the correct Model Program Number is displayed.

NOTE: The correct Model Program Number is located on the furnace Rating Plate.

4. If correct Model Program is accidentally passed, continue to hit NEXT (the numbers will scroll back around)
5. When the correct Model Program number is displayed, press the MENU/SELECT button, see [Fig. 2](#).
 - a. Display will show  for a few seconds
6. Remove Super Plug.
7. Confirm correct model is programmed into the new the control (matches Rating Plate).
 - a. Press MENU button until  is reached.
 - b. Press SELECT to show the control software version and model program.
 - c. If wrong model program, repeat above steps to correct.
 - d. Control is now programmed and ready for operation.

SYSTEM OPERATION

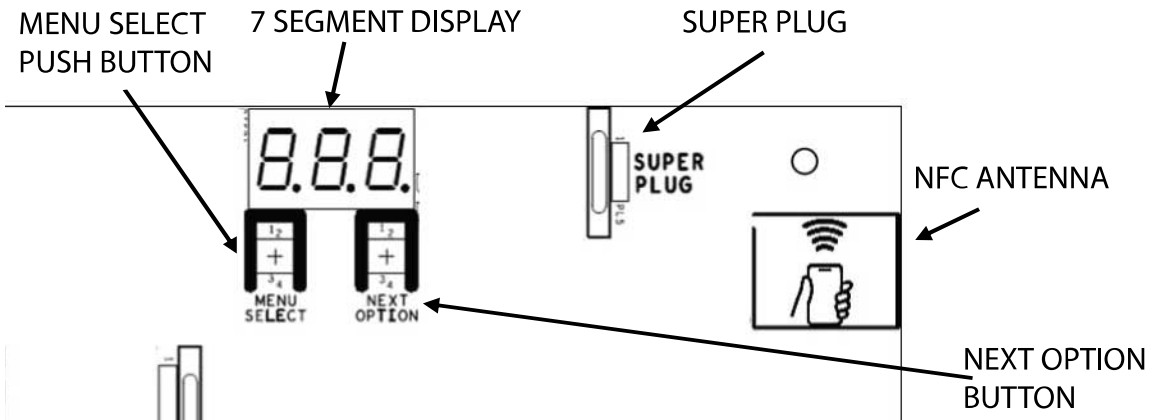
1. Verify correct operation in all modes (Heat, Cool, Continuous fan) and make any adjustment according to procedures outlined in the furnace installation manual.
2. Refer to furnace Diagnostic Label or Installation Instructions for further troubleshooting assistance.



Representative drawing only, some models may vary in appearance.

Fig. 1 – Rating Plate

A221061



Representative drawing only, some models may vary in appearance.

Fig. 2 – Example of Furnace Control

A221062