

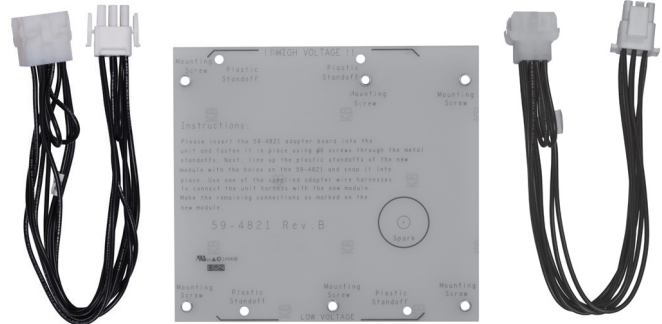
**FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY  
BEFORE INSTALLING OR OPERATING THIS CONTROL COULD CAUSE  
PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

**DESCRIPTION**

The F50N02-820 is a Furnace Adaptor Board that is used when replacing the following controls

**Parts included:**

- 0059-4821 Adapter Panel
- 9 Pin to 9 Pin Wiring Adapter Harness
- 12 Pin to 9 Pin Wiring Adapter Harness
- Diagnostic Indicator Tag
- Installation Instruction Sheet



Trane	Adapter Kit	New Control
CNT01634	KIT06839, F50N02-820	CNT03457, 50N02A-820
CNT01669	KIT06839, F50N02-820	CNT03457, 50N02A-820
CNT02216	KIT06839, F50N02-820	CNT03457, 50N02A-820
CNT02217	KIT06839, F50N02-820	CNT03457, 50N02A-820
CNT02219	KIT06839, F50N02-820	CNT03457, 50N02A-820

**SPECIFICATIONS & INSTALLATION**

**TEMPERATURE RANGE:**

-40° to 150°F (-40 to 65°C)

**HUMIDITY RANGE:**

0 to 95% relative humidity (non-condensing)

**AGENCY APPROVALS:**

UL Recognized

**MOUNTING AND WIRING**

**NOTE:** All wiring should be installed according to local and national electrical codes and ordinances.

1. Remove the old control, keeping the #6 mounting screws. Rotate the adapter board so that the text is right side up, then fasten it in place through the metal stand-offs using the (6) #6 screws that were holding the old control in place.
2. Rotate the new control such that the spark transformer and 9 pin connector are in the lower right hand corner of the board. Align the plastic standoffs on the new control with the remaining holes on the adapter board and gently press on the board until all 4 plastic standoffs on the CNT03457, 50N02A-820 or CNT03458, 50N02B-820 control snap firmly into place.
3. Replace all of the quick-connect wires, ensuring that the labels match the same designation on the new board, except, a single stage gas furnace (old control #CNT02216) should have the "Indoor Fan Low" wire connected to the "BLOWER SINGLE/HI" terminal on the new #CNT03457 control, and the "Inducer Low" wire connected to the "INDUCER SINGLE/HI" terminal on the new control because it is for a SINGLE stage furnace.

4. a) If the control # #CNT02216 is coming out of a single stage gas furnace, then use the 9 pin to 9 pin wiring adapter harness.  
b) If the old control #CNT02217 or CNT02219 is coming out of a dual stage gas furnace, then use the 9 pin to 12 pin wiring adapter harness.
5. Attach the Diagnostic Indicator Tag. The placement of this tag must be such that it cannot come in contact with the fire box, open flame, or any other hot surfaces which might lead to charring or combustion.
6. Discard the unused wire adapter harness.

**⚠ CAUTION**

**Risk of Electric Shock. Disconnect electric power to system until installation is complete. Do not use on circuit exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard.**

**This control is not intended for use in locations where it may come in contact with water.**