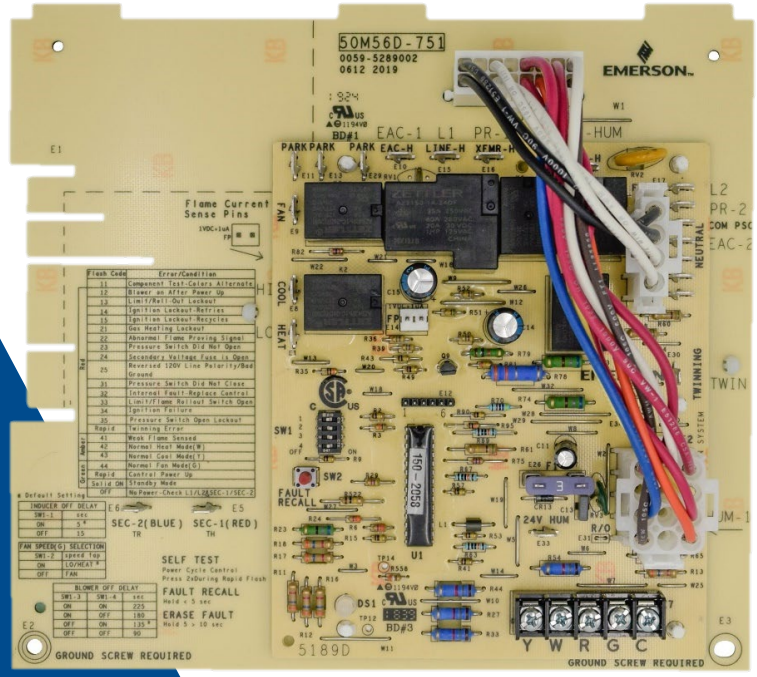


50M56D-751
Direct OEM Replacement
Carrier Edge Card IFC

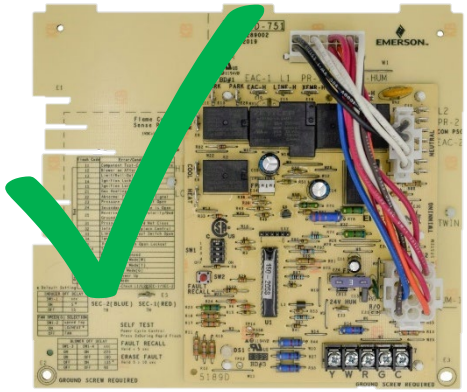
EMERSON

Introducing White-Rodgers
Carrier Direct Replacement "Edge Card" Control

The White-Rodgers 50M56D-751 Integrated Furnace Control

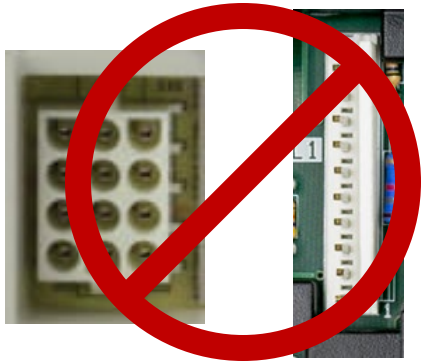
What is an "Edge Card" Control?

Most Furnaces have a main wiring harness that plugs into the front of an IFC. Carrier made a unit that plugs into the side of the control board, making the connection on the "edge of the card". The White-Rodgers 50M56D-751 is a direct replacement utilizing a board that can be plugged into the Furnace and a 2nd board layered on top that operates as a fully integrated furnace control.



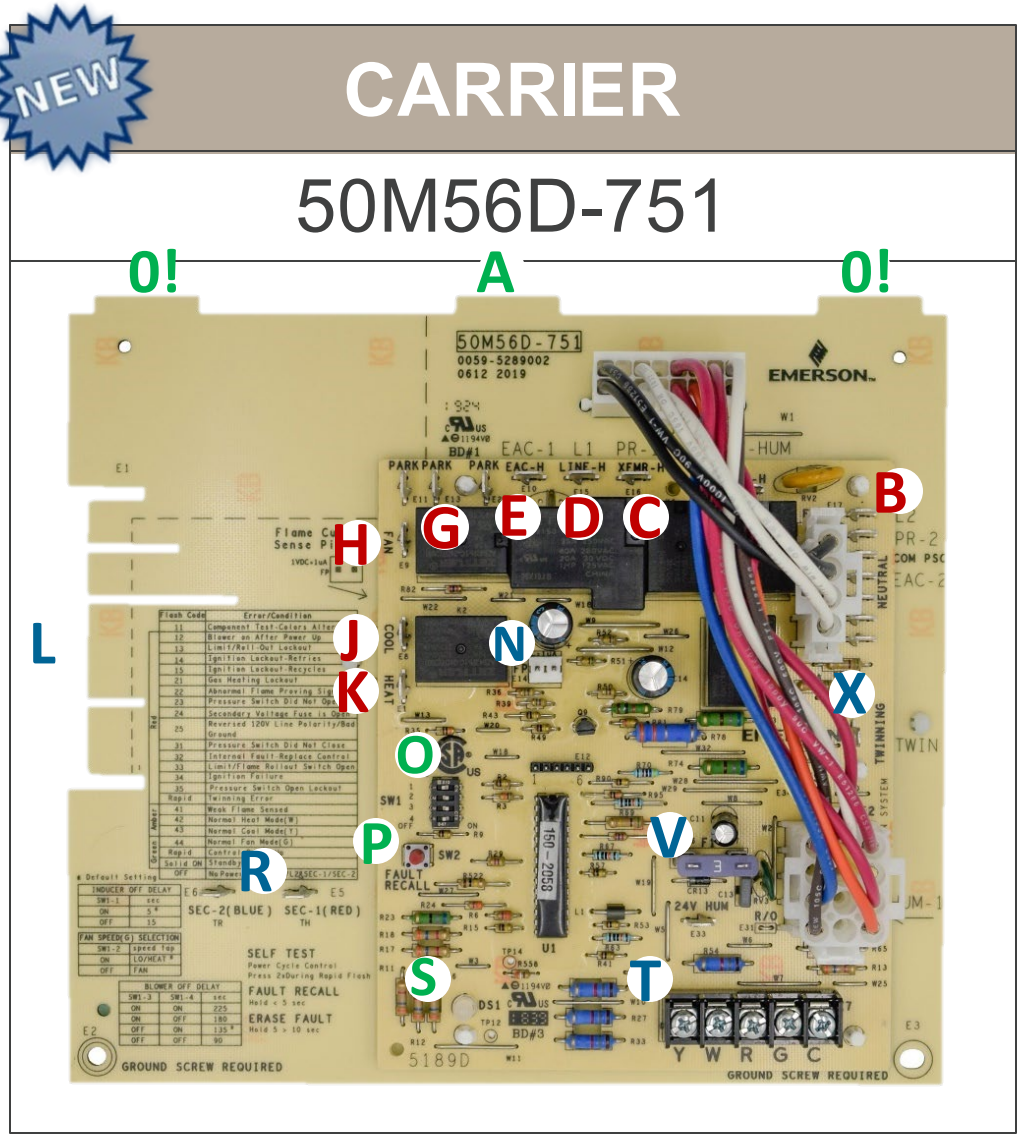
White-Rodgers now has a new Carrier Direct Replacement IFC for the application of:

- Edge harness connection
- Single Stage Gas
- Hot Surface Ignition
- PSC Blower



White-Rodgers now offers another common Carrier IFC

White-Rodgers Carrier 50M56D-751 Components



120v & 24v Components:

- **A** Mounting tabs
- **B** 7 120v Neutral Spades
- **C** 120v to Transformer Spade
- **D** 120v Hot Input Spade
- **E** 120v EAC Spade
- **G** 3 Extra Blower Speed Park Spades
- **H** PSC Blower Fan Only Spade
- **J** PSC Blower Cool Spade
- **K** PSC Blower Heat Spade
- **L** Edge tabs for connection to Furnace
- **N** Flame Test Pins
- **O** Heat On/Off, Fan Dipswitches
- **P** Fault Recall Button
- **R** 24v Hot & Common Spades
- **S** Status / Fault LED
- **T** 24v Thermostat Bus
- **V** 3a Low Voltage Fuse
- **X** Twinning Spade

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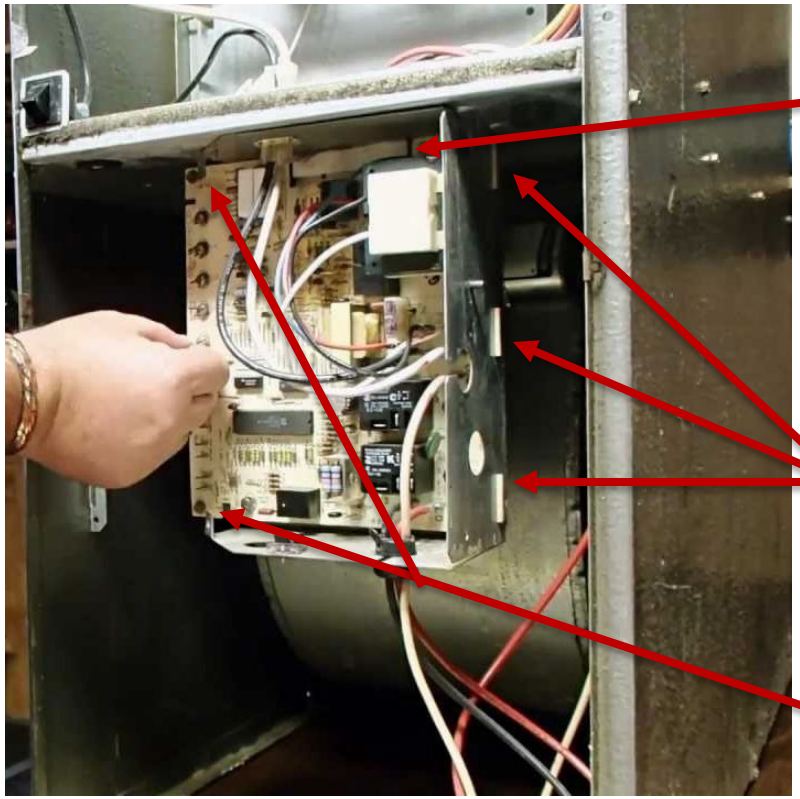
How it Connects

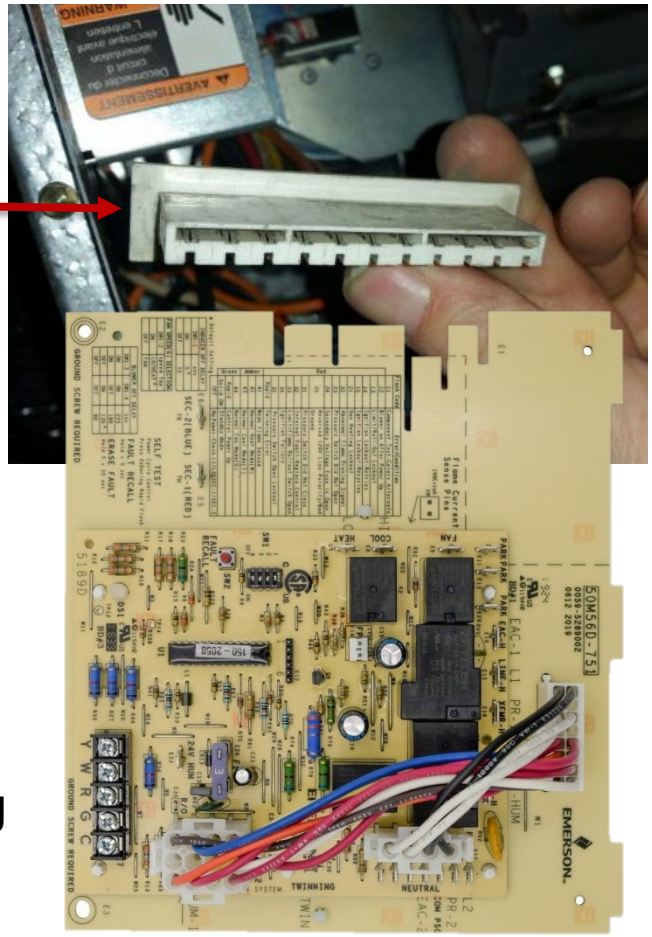
Control Board Contacts



Furnace Harness Connector

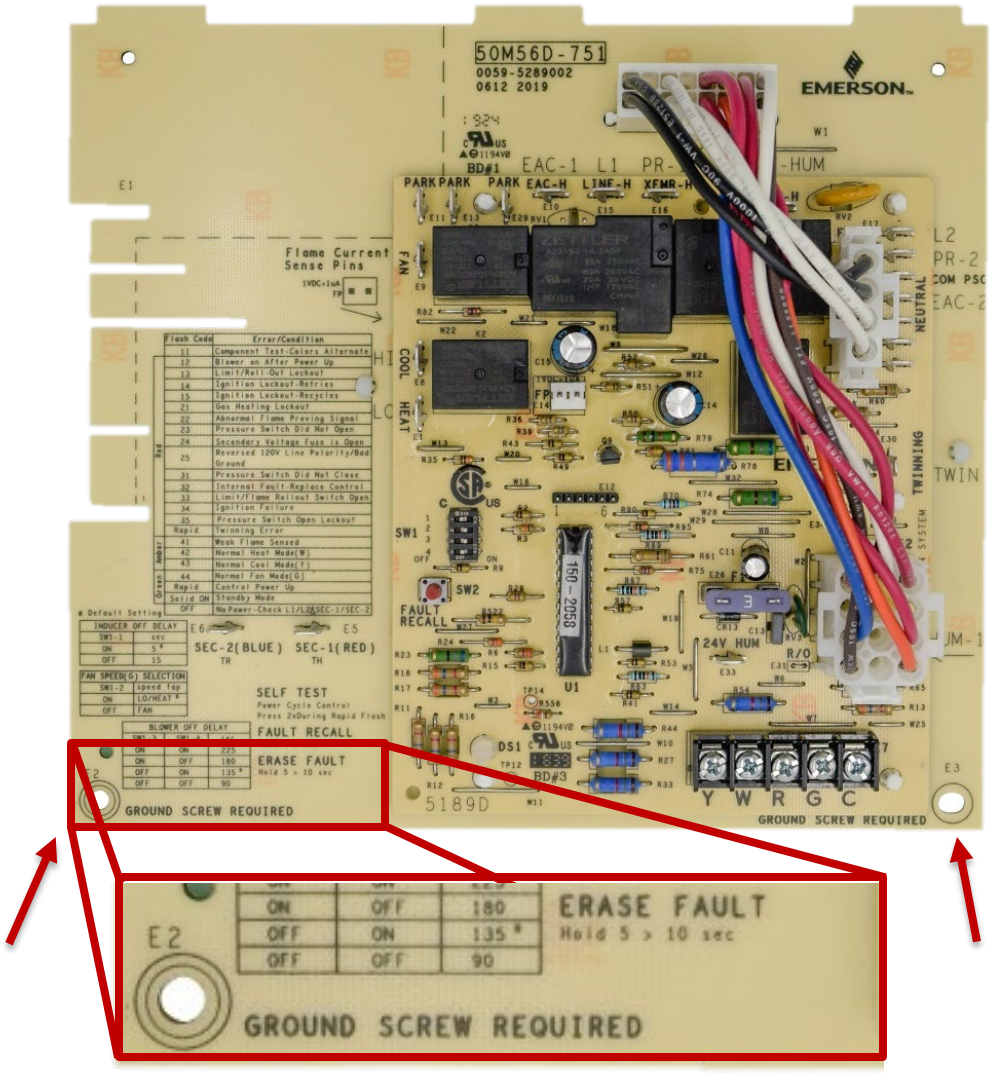
Mounting Tabs

Mounting Screws



The Edge Card Slides in the Connector located in the Panel between the Burner & Blower Compartment

Required Grounding



Proper Grounding

For the control to properly function, a mounting screw is required to be installed in one of the 2 corners of the control board.

2x ½” screws are provided

Utilizing the Flame Test Pin Feature

Understanding Test Pins

2 short pins are located on upper left quadrant of the Control Board.

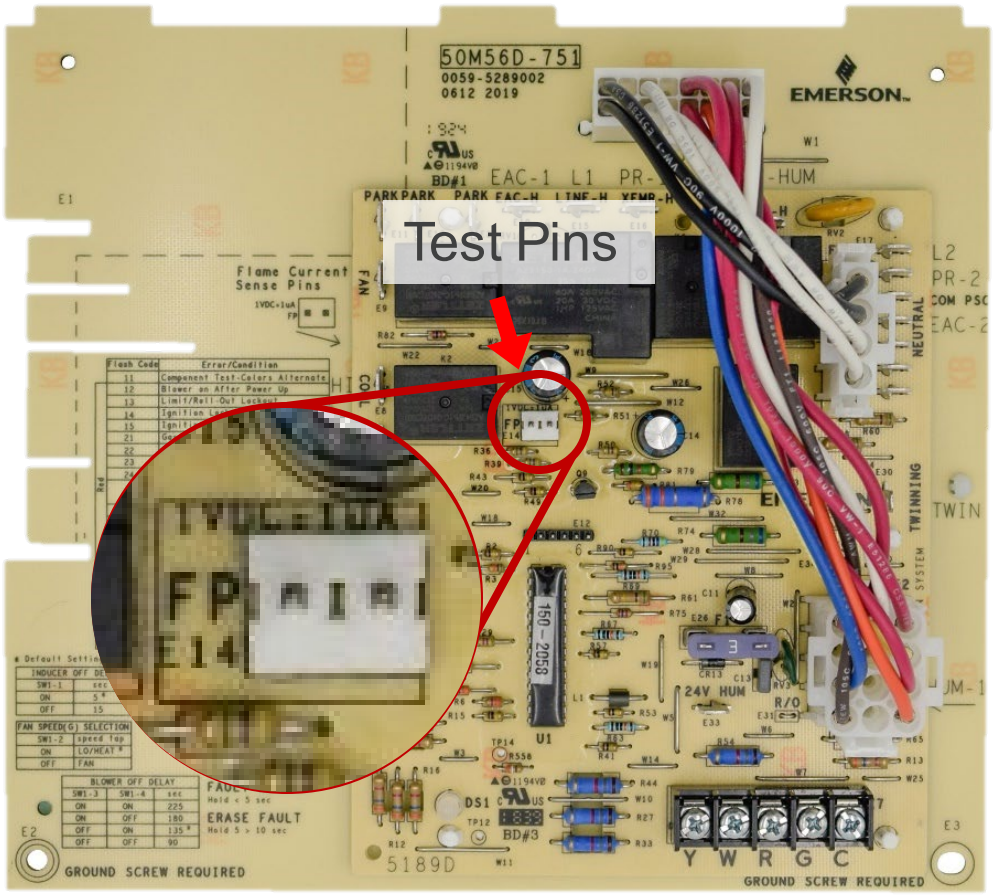
To Test:

The Furnace must have a call for heat and the burners producing flame.

Set a multimeter to vDC and place a meter probe on each pin.

Convert vDc to MicroAmps using a 1:1 ratio.

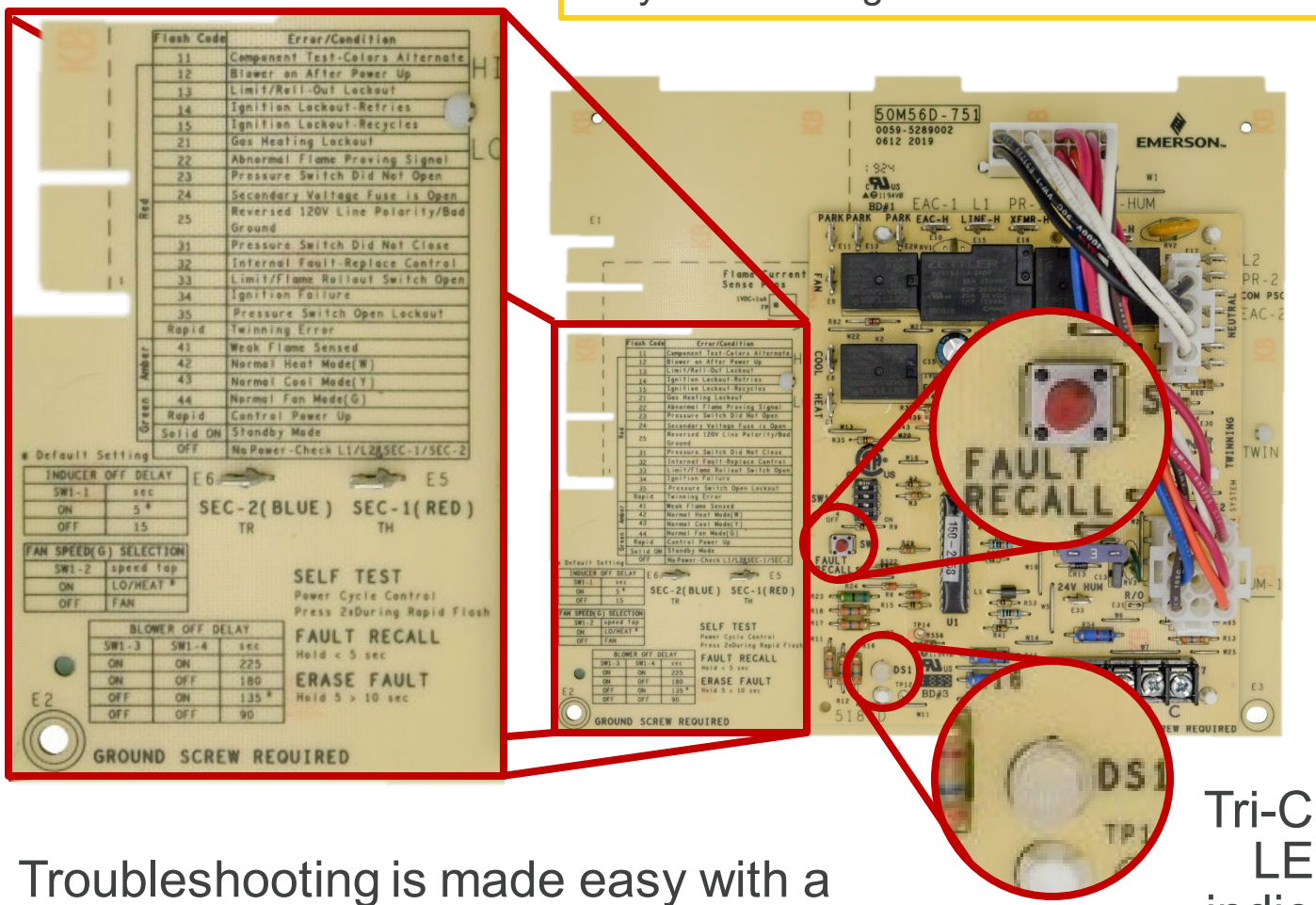
A good flame sense reading will be between 1.0 – 5.0 µA.



Early Board – Modern Feature

Status & Fault Codes for Troubleshooting

Only White-Rodgers offers the Fault Recall / Clearing Feature



- The Fault Button allows for:
  - Recall of the last 5 faults
  - Fault Code Erasure
  - Place the control into the Self-Test mode

Troubleshooting is made easy with a Fault Code Label on the Control Card

Tri-Color LED indicator

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What's in the Box

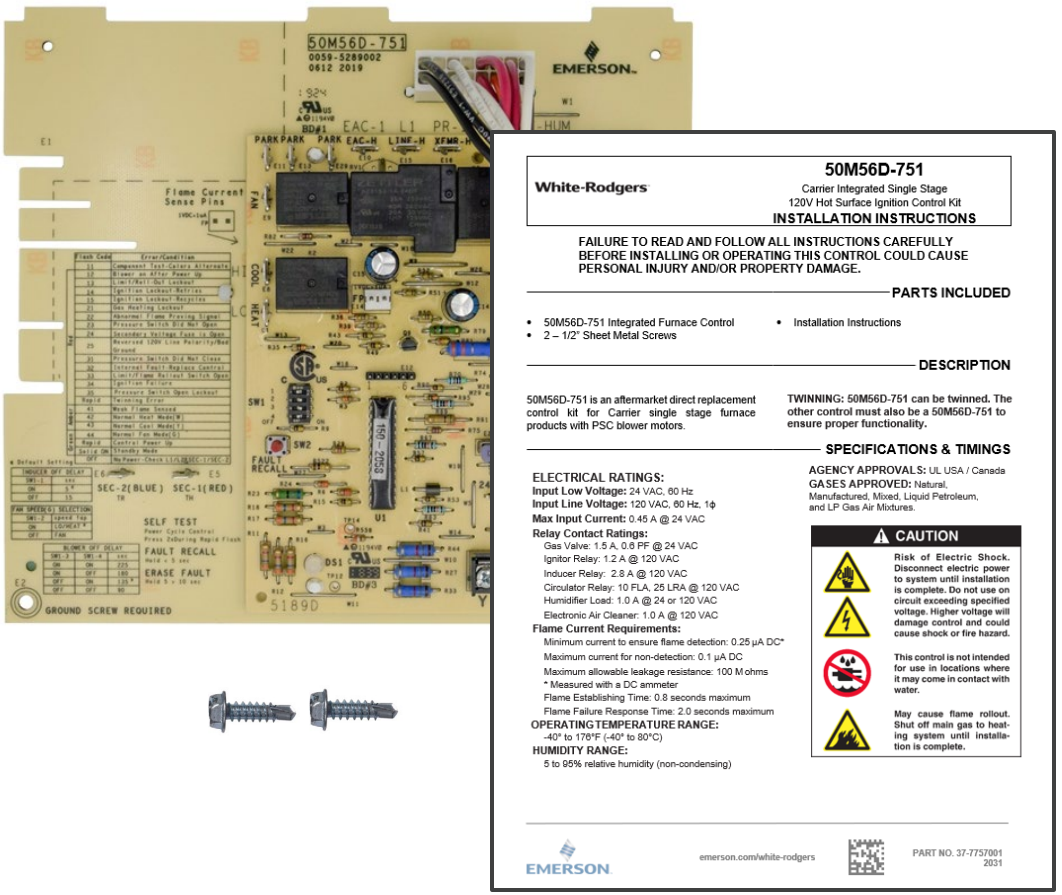
List of Contents:

- Carrier "Edge Card" IFC
- Instruction Sheet
- 2x - ½" mounting screws

Cross-References:

784-9-I
CESO110020
CESO110057-01
CESO110057-02
HH84AA016CB1201-2A
ICM281

Integrated Furnace Control



50M56D-751

White Rodgers One-Stop Carrier Solution

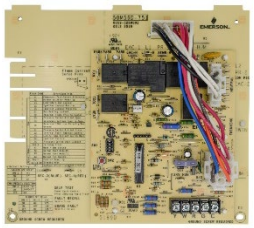
Carrier HSI Gas Furnace Components

NEW

CARRIER
50M56U-751

NEW

CARRIER
50M56D-751



CARRIER
21V51D-751

NEW

CARRIER / ICP
790-751A1

CARRIER / ICP
789A-751A1

CARRIER ICP
789A-751KT1

CARRIER / ICP
789A-751KT2

Control Boards

- **50M56U-751** Redesigned Universal
- **50M56D-751** New Edge Card
- **21V51D-751** 2-Stage PSC, ECMx & ECMv

Flame Sensor

- **790-751A1** New with OEM adapter

120v Nitride Ignitors

- **789A-751A1** w/o bracket
- **789A-751KT1** w/ bracket & connector for 33⅓" Furnaces
- **789A-751KT2** w/ bracket & connector for 40" Furnaces

Stock your CARRIER Portfolio with these Great Products!

Why Contractors Trust White-Rodgers

- Industry Leading Products
  - Used by more OEM's
  - Offering the widest range of Universal Replacement Controls
- Ease of Installation
  - Simple, easy to understand instructions
- Reliability of Product
  - Quality control provides reliable products
- Affordable
  - Competitive prices
- Supported by Knowledgeable Representatives
  - Contractor direct phone support

One Stop. One Solution. White-Rodgers

Comprehensive Solutions - Delivered