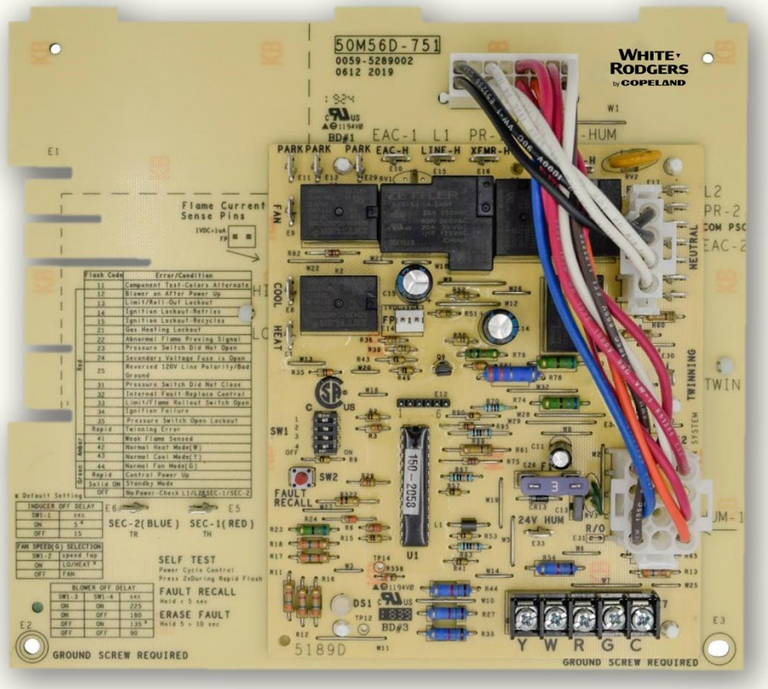
COPELAND

50M56D-751 Direct OEM replacement Carrier Edge Card IFC



Introducing White-Rodgers Carrier direct replacement “Edge Card” control

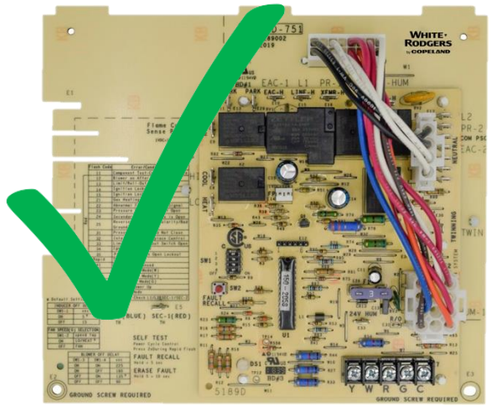
The White-Rodgers 50M56D-751 integrated furnace control

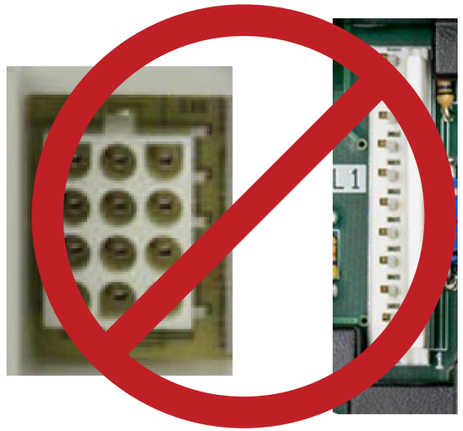
What is an “Edge Card” control?

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

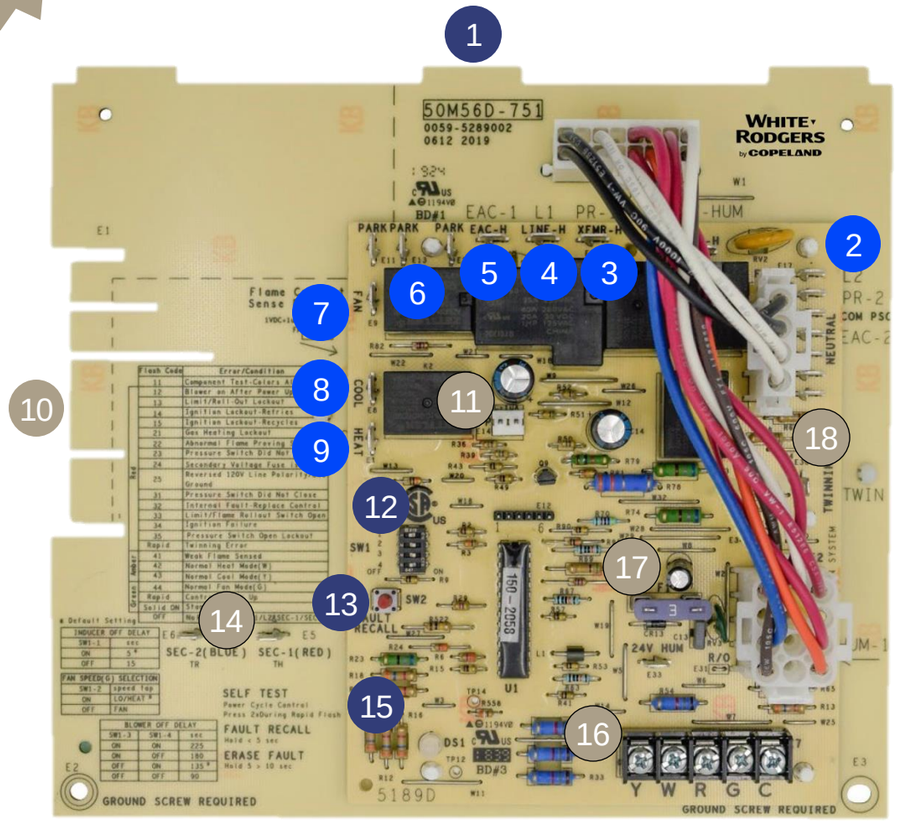




White-Rodgers now offers another common Carrier IFC

White-Rodgers Carrier 50M56D-751 components

NEW **Carrier** 50M56D-751

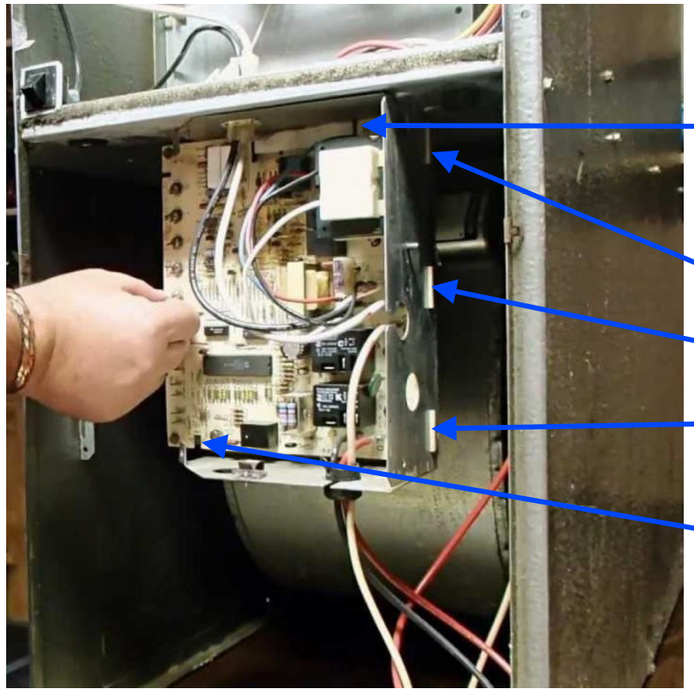


120v & 24v components:

1. Mounting tabs
2. 7 120v neutral spades
3. 120v to transformer spade
4. 120v hot input spade
5. 120v EAC Spade
6. 3 Extra blower speed park spades
7. PSC blower fan only spade
8. PSC blower cool spade
9. PSC blower heat spade
10. Edge tabs for connection to furnace
11. Flame test pins
12. Heat on/off, fan dipswitches
13. Fault recall button
14. 24v hot & common spades
15. Status / fault LED
16. 24v thermostat bus
17. 3a low voltage fuse
18. Twinning spade

How it connects

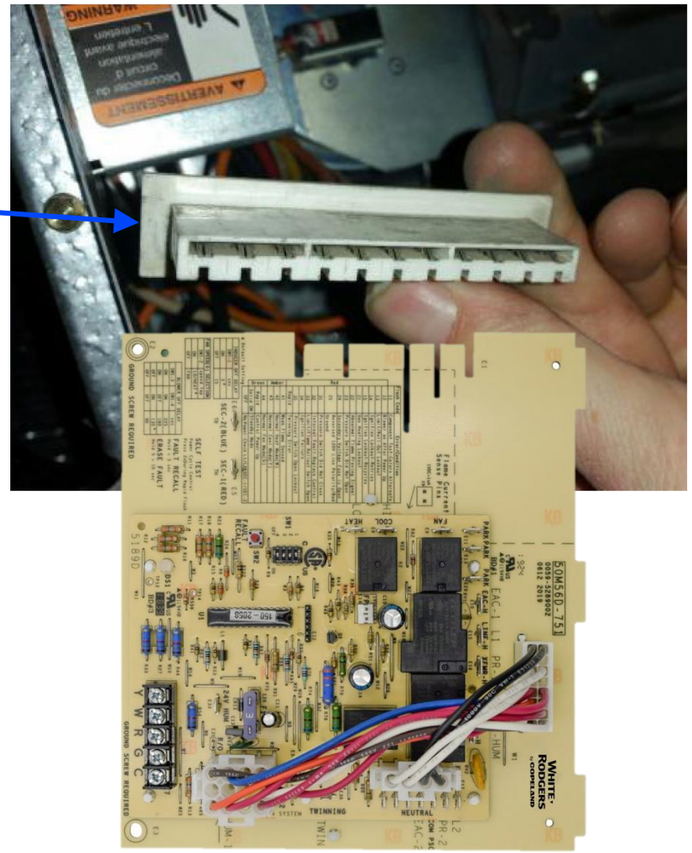
Control board contacts



Furnace harness connector

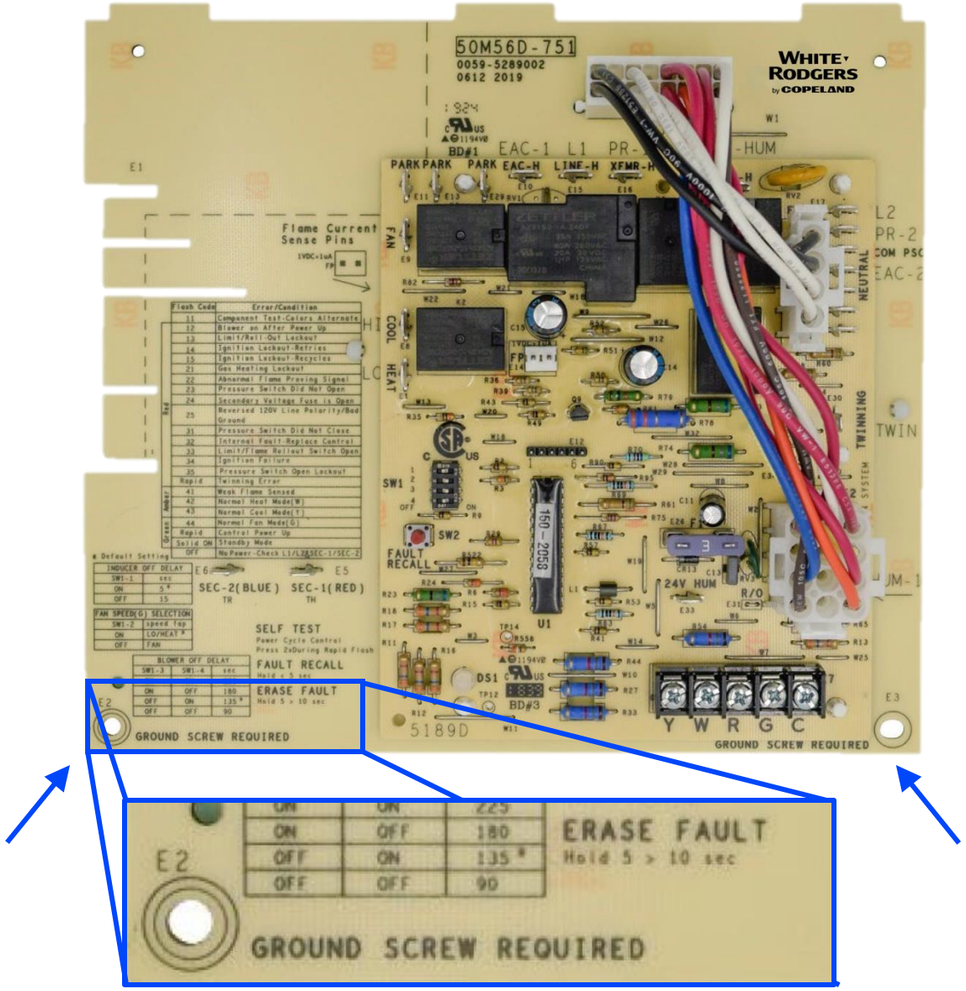
Mounting tabs

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.

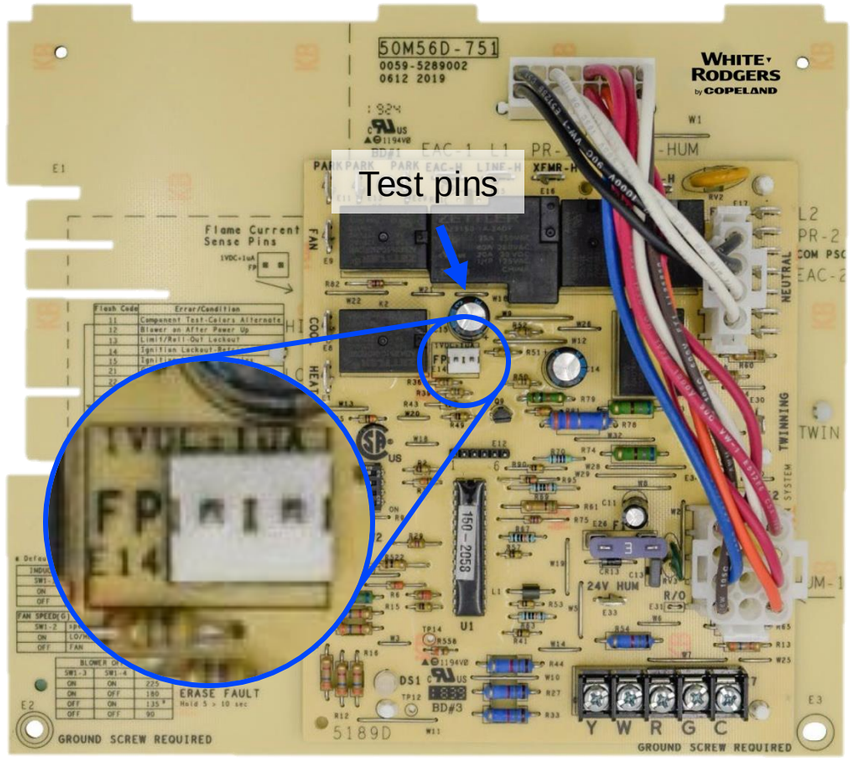
To test:

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.

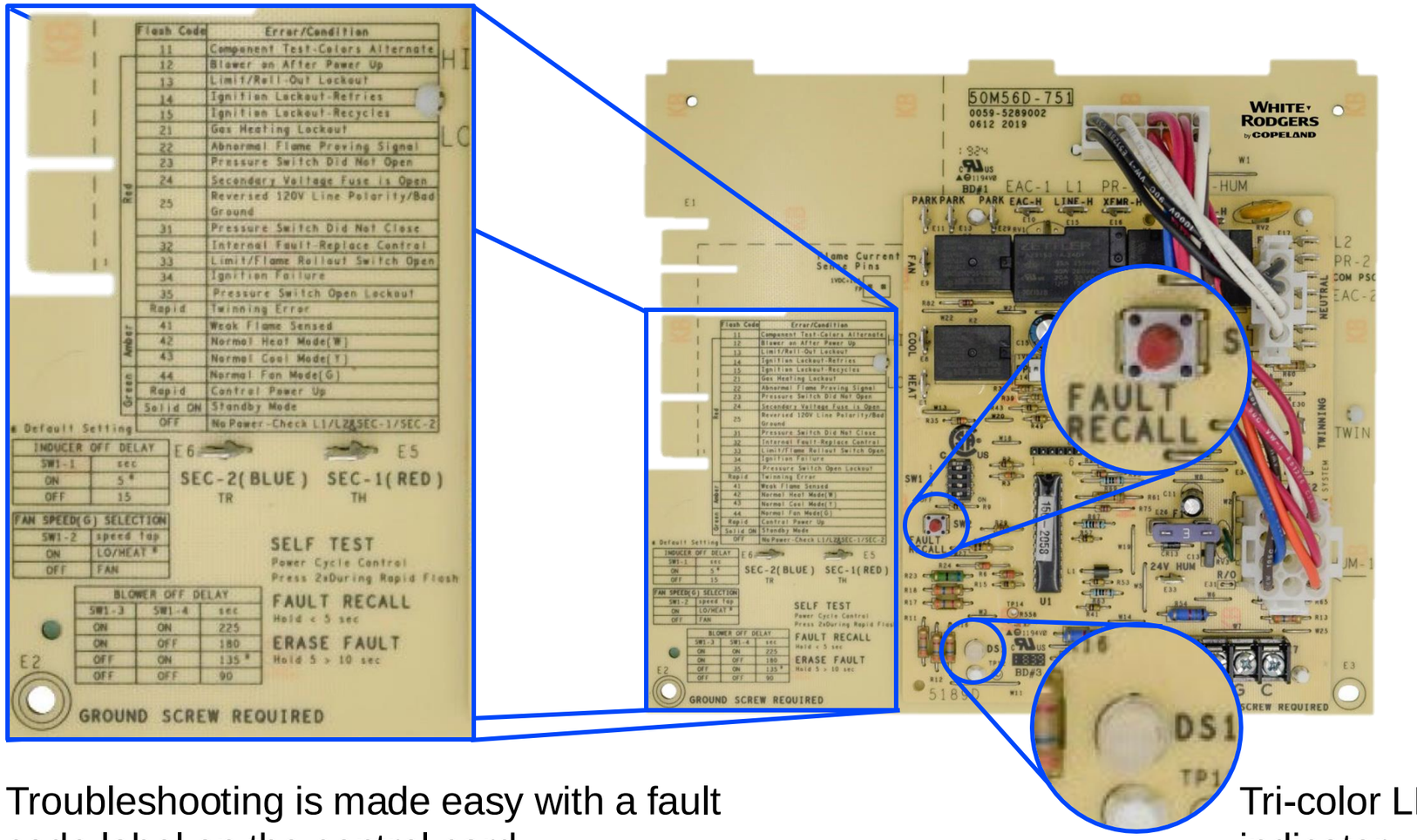
Convert vDc to MicroAmps using a 1:1 ratio.

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



Early board – modern feature

Status & fault codes for troubleshooting



Troubleshooting is made easy with a fault code label on the control card

Tri-color LED indicator

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

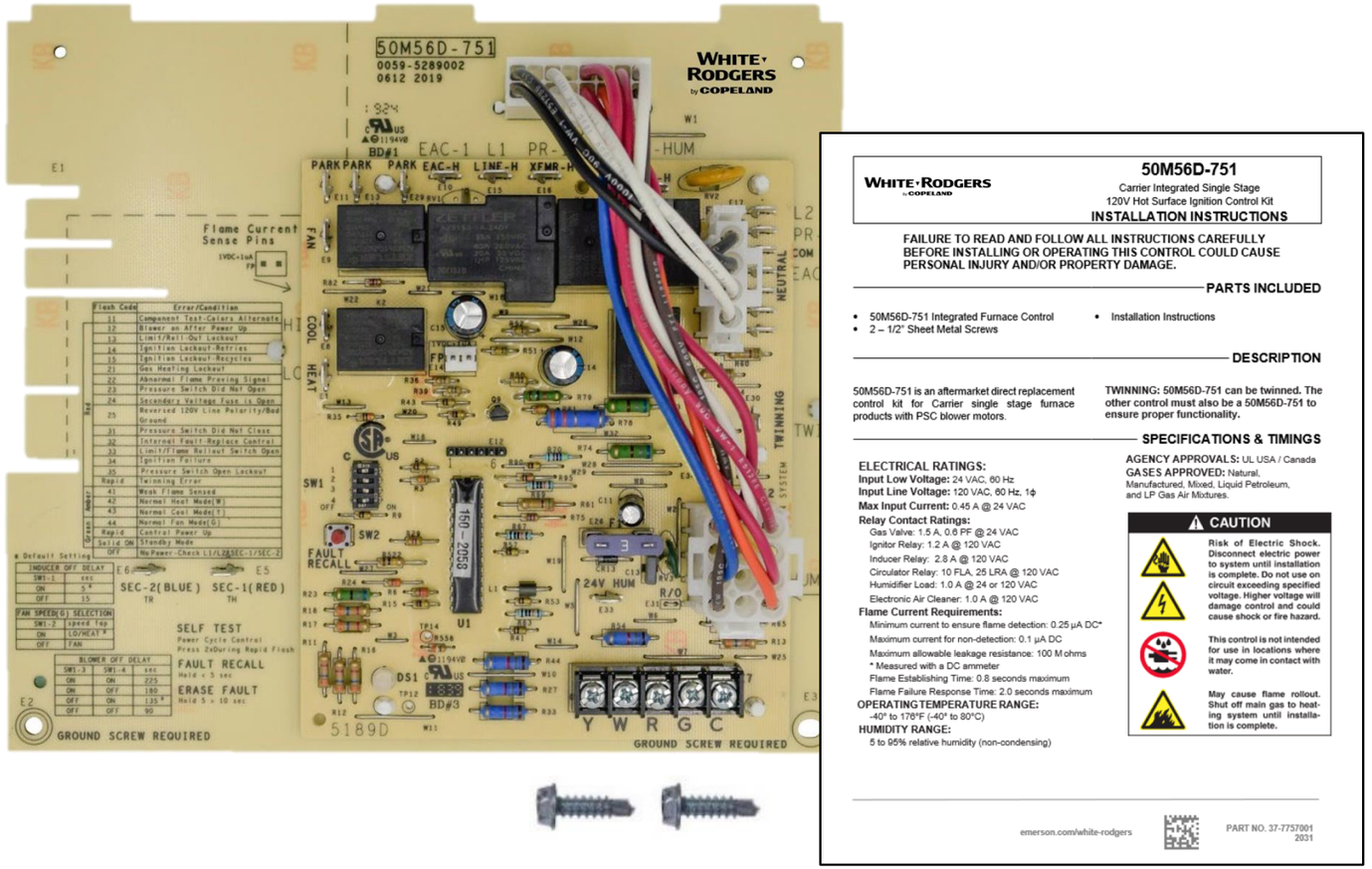
What’s in the box

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

HSI gas furnace components

NEW

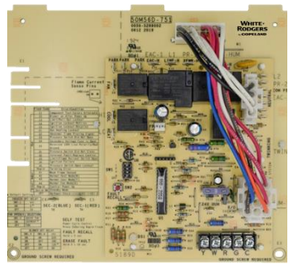
CARRIER

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 OEMs
  - 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