

Universal Two-Stage Furnace Control for PSC Blower Motors

21M51U-843



Simplifies stocking, installation and ensures peak system performance



Universal Replacement Kit

Replaces most White-Rodgers 50A51, 50M51, and 50M61 two-stage HSI controls with 80V or 120V ignitor

Kit Includes:

- Ignition control 50M51-843
- HotRod™ Universal Ignitor Kit 21D64-2
- Trane ignitor mounting bracket
- Installation instructions and cross references



Easy Installation

- Cover allows flexibility during mounting
- Added dipswitches for trial for ignition and blower delays
- Additional blower motor wire extensions



Now replaces 50A51 applications

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FEATURES:

- 120 VAC ignitor output
- 120 VAC two-speed inducer output
- 120 VAC humidifier output
- 120 VAC electronic air cleaner output
- 2-stage gas valve output
- 120 VAC 3-speed PSC blower motor output
- Fuse protection—3 amp
- Tri-Color LED and status codes
- Selectable W2 delay when used with Single Stage thermostat
- Selectable Trial for ignition timing
- Pushbutton fault recall
- YLO, Y, W1, W2, R, G, C, O, Twin terminals
- Flame current test pads
- Cover for additional mounting options
- Blower motor wire extensions

SPECIFICATIONS:

Electrical Ratings [@ 77°F (25°C)]

Input Voltage: 120 VAC, 60 Hz
(Class II transformer required)

Max. Input Current @ 24 VAC

800mA + MV

Flame Current Requirements

Minimum current to ensure flame detection:
0.3 μA DC*

* Measuring with a DC voltmeter (1 VDC = 1μa)

Operating Temperature Range

-40° to 176°F (-40 to 80°C)

Humidity Range

5% to 95% relative humidity (non-condensing)

Gases Approved

Natural, Manufactured, Mixed, Liquid Petroleum, and LP Gas Air mixtures are all approved for use

Dimensions

BOARD: 4.82" W x 8" H x 1.25" D
COVER: 5.12" W x 9.13" H x 1.45" D

Agency Approval

CSA

1 Year Limited Warranty

Timing Specifications

(All times are in seconds unless noted otherwise)

Pre-purge	Ignitor warm-up	Retries	Post-purge	Lockout time	Heat ON delay	Heat OFF delay	Cool ON delay	Cool OFF delay	W2 delay	Trial for Ignition	Auto reset
15	17	2 times	15	300	30/45*	90*/120/150/180	5	0/60*	Off*/10m/Auto/20m	4*/7	60 minutes

* Denotes factory default

21M51U-843 CROSS REFERENCE REPLACEMENT

Amana/Goodman

10207708

10207712

10207713

20300001

20300003

50A51-215

50A51-225

50A51-235

50M61-288

50M61-289

PCB00114

PCB00115

PCB00116

PCBBF114

PCBBF114S

PCBBF115

PCBBF115S

PCBBF116

PCBBF116S

PCBBF120S

PCBBF125

Armstrong

43207001

44957001

50A51-210

50A51-211

R43207001

R44957001

Johnstone

L39-373

L39-376

L42-300

L42-301

L42-302

Lennox Industries

100869-03

18M3401

39M26

46M9901

50M61-120

63W26

83L9301

Y4151

Trane/ American Standard

1006225

1148167

21M51-495

50A51-405

50A51-495

50M51-495

50M61-495

CNT01308

CNT02184

CNT03077

CNT05122

CNT06424

CNT07566

CNT1308

CNT2184

CNT6424

D330934P01

D330937P01

D340021P01

D341418P01

D341418P02

D344301P01

KIT15943

KIT17858

X13650839010

White-Rodgers

21M51U-843

50M61-843

York International

18381

18384

265903

449573

50A51-242

50A51-243

50M51-242

542767

67298

872670

S1-03101290000

S1-03101909000

S1-03102954000

S1-03103009000

S1-03109117000


S1-03109168000

S1-33102954000

S1-33103009000

S1-33109117000

S1-33109168000

 New Cross References



Download the app for product information