

Two-stage HSI integrated furnace control for variable speed (ECM) motors

21V51U-843

Replace 54 part numbers on two-stage systems with 80V or 120V ignitors



Universal replacement control

Reduce inventory

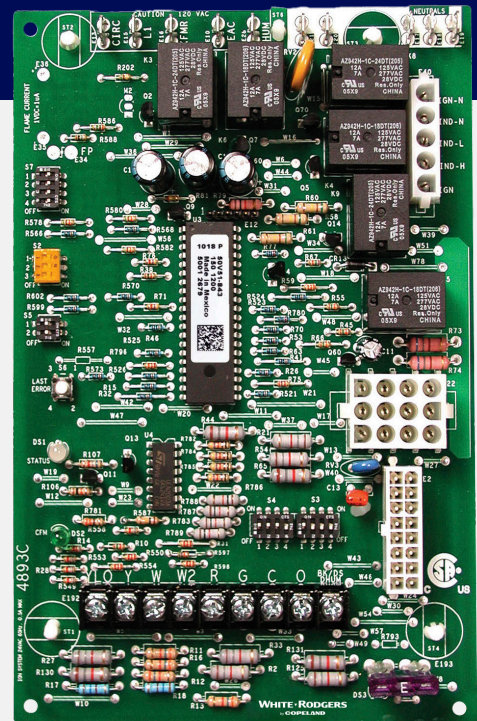
HotRod ignitor included for 80V or 120V replacement

Provides proper signals to 5 different manufacturer ECMs



Advanced diagnostics

Push-button fault recall with tri-color LED CFM indicator LED



Two-stage HSI integrated furnace control for variable speed motors

Specifications:

Electrical ratings: [@ 77°F (25°C)]

Input voltage.....25 VAC 50/60 Hz

Max. input current..... .45A @ 25 VAC

Flame current requirements:

Min. current to ensure flame detection..... 0.25 μ A DC*

Max. current for non-detection.....0.1 μ A DC*

Max. allowable leakage resistance..... 100 M Ohms

*Measured with a DC voltmeter (1 VDC = 1 μ A)

Operating temp range: -40° to 176°F (-40 to 80°C)

Humidity range: 5% to 93% relative humidity
(noncondensing)

Dimensions:5.625" W x 8.25" L x 1.50" D (with tabs)
.....5.25" W x 7.0" L x 1.50" D (tabs removed)

Agency approvals: CSA - USA / Canada

1 year limited warranty

Timing specifications:

Note: Timing in seconds unless otherwise noted.

Pre-purge	15
Ignitor warm-up	17
Trial for ignition period	4
Ignition activation period	3
Retries	2 Times
Valve sequence period	12
Interpurge	60
Post-purge	15
Lockout time	300
Heat delay to fan on	45
Heat delay to fan off*	90/120/150/180
Cool delay to fan on	5
Cool delay to fan off	60
Delay to fan on	0
Flame failure response time @ 60 Hz	2.0 Sec. Max.
Auto reset	60 Minutes

Cross references:

Lennox

18M9901*

100870-01*

100870-03*

19W60*

49M5901*

63W27*

Y4152*

50V61-120*

50V61-121*

Amana/

Goodman

50V51-288

50V51-289

50V51-290

B1809925

B1809927

B1809927S

PCB00106

PCB00106S

PCBBF106

PCBBF106S

PCBBF107S

PCBBF124

PCBBF124S

20300002*

20300004*

20300006*

50V61-288*

50V61-289*

PCBBF121*

PCBBF121S*

American

Standard

/ Trane

50V51-507*

50V61-480*

50V61-486*

50V61-507*

KIT15815*

CNT03078*

D156245P01*

D341420P01*

D341420P02*

X13650840010*

CNT04018*

CNT04352*

CNT05120*

York

265904

449572

642768

S1-03102955000

S1-33102955000

S1-03102977000

S1-33102977000

S1-03109169000

S1-33109169000

50V51-243

50V61-143*

Coleman/Evcon/

Luxaire

50V51-243

50V61-143*

Note: The Installer may have to modify existing ignitor hole to accommodate the new 21D64-2, with ceramic diameter (.394").

*21D64-2 Ignitor Note: In these applications, the existing 80V ignitor must be replaced by the 120V 21D64-2 ignitor.

The White-Rodgers mobile app:

- Latest cross reference
- Installation instructions
- Spec sheets
- Product selection

