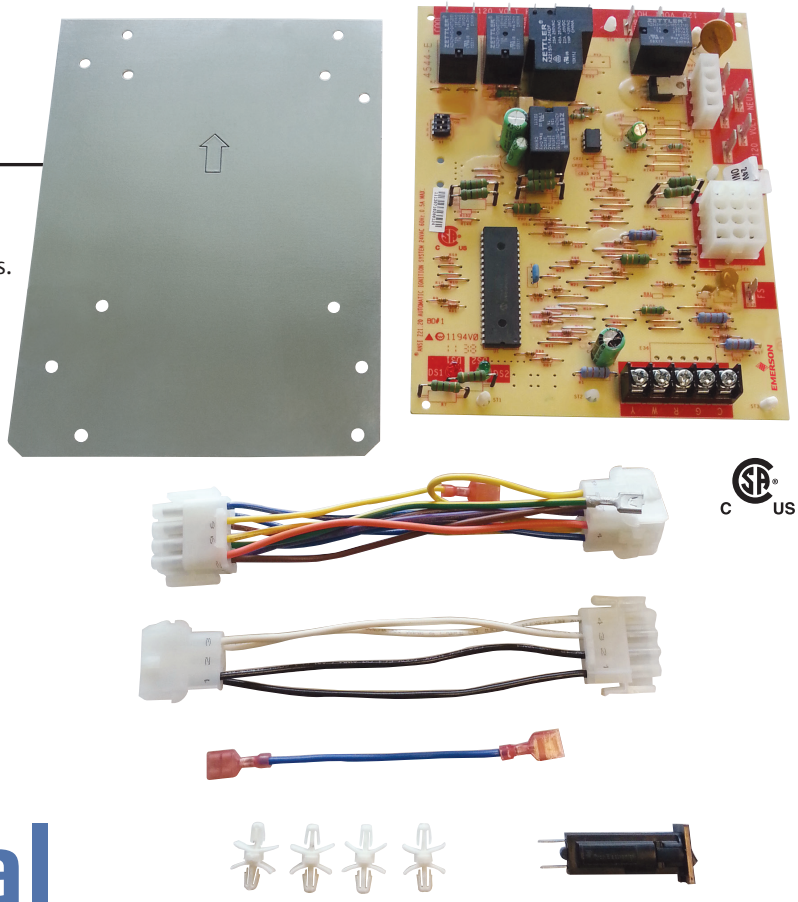
Single-Stage/HSI Integrated Furnace Control Kit

OEM Replacement

21D83M-843

Nitride Ignition
Integrated Furnace Control
Controls Gas Valve, Ignitor, Blower, Inducer, Humidifier and Air Cleaner. Replaces Lennox models.



Kit includes:

1 – 50A66-843 Ignition Control Board
1 – Wiring harness (9-pin to 12-pin)
1 – Wiring harness (4-pin to 6-pin)
1 – Mounting panel
4 – Stand-off fasteners
1 – Circuit breaker
1 – 4" blue wire
2 – Wiring diagrams

Integrated Furnace Control – 21D83M-843

Replace the Original with the Original.

21D83M-843 simplifies installation and ensures peak system performance.

Features:

- Includes diagnostic indicator flash codes
- 3 fan speeds
- Remote flame sense
- Humidifier and electronic air cleaner connections (optional)

White Rodgers™

EMERSON™
Climate Technologies

Single-Stage HSI Integrated Furnace Control Kit

OEM Replacement

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21D83M-843

Specifications

Input Voltage: 25 VAC 50 / 60 Hz

Maximum Input Current @ 25 VAC: 0.45 amp

Valve Relay: 1.5 amp @ 25 VAC 50 / 60 Hz 0.6 pf

Ignitor Relay: 2.0 amp @ 120 VAC 50 / 60 Hz (resistive)

Inducer Relay: 2.2 FLA – 3.5 LRA @ 120 VAC

Circulator Relay: 14.5 FLA – 25.0 LRA @ 120 VAC

Operating Temperature Range: -40 to +175°F (-40 to +79°C)

Humidity Range: 5% to 93% relative humidity (non-condensing)

21D83M-843 Cross Reference

21D83M-843 Replaces:

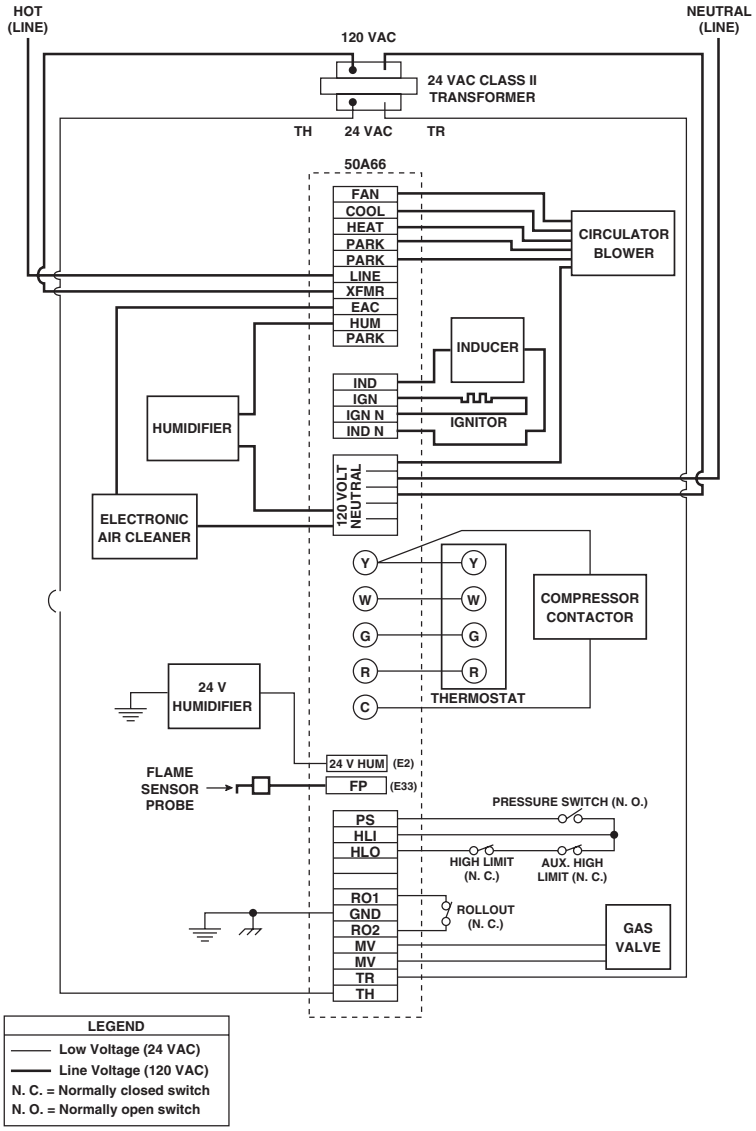
Lennox	White-Rodgers
10M9301 12L6901 32M8801 56L8401	50A65-120 50A65-121
24L8501 63K8901 97L4801	50A62-120 50A62-121 50A62-820
100925-01 100925-03 17W9201 23W5101 30W2501 69M0801 69M1501 83M00	21D83M-843 50A66-122 50A66-123

Timing Specifications

(All times are in seconds unless noted otherwise)

21D83M-843	
Pre-purge:	15
Heat delay to fan ON	45
Heat delay to fan OFF	60/90/120/180
Cool delay to fan ON	2
Cool delay to fan OFF	2/45
Auto reset	60 minutes

TYPICAL SYSTEM WIRING DIAGRAM



White Rodgers™

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314-553-3600

Markham, Ontario
905-948-3411

www.white-rodgers.com
www.emersonclimate.com

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