

Goodman/Amana Two-Stage HSI Integrated Furnace Control for ECMx Blower Motors

50M58-707



Simple 120V Goodman replacement
including required accessories

DIRECT DROP-IN REPLACEMENT

Direct replacement for 120V original OEM control

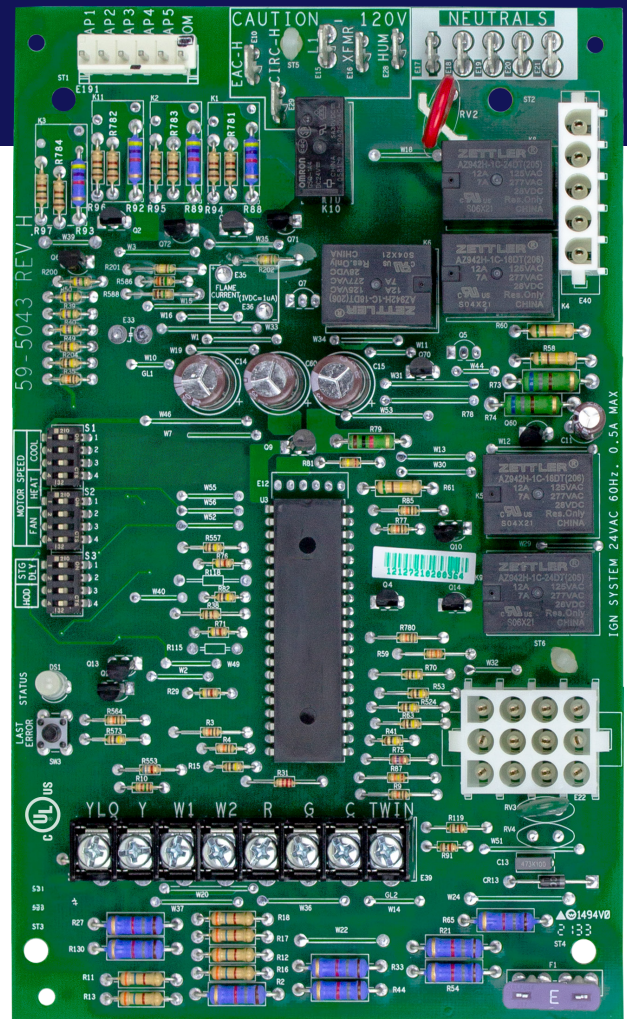
Mounting matches original OEM model

Easy-install harness converts old board wiring

ADVANCED DIAGNOSTICS

Simple push-button fault recall

Tri-Color LED displays status and fault codes for
easy troubleshooting.



Goodman/Amana Two-Stage HSI Integrated Furnace Control for ECMx Blower Motors

SPECIFICATIONS

Electrical Ratings (@ 77°F ([25°C])

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

Max. Input Current @ 24 VAC 800mA + MV

Relay Load Ratings 6.0 Amp @ 120V

1st Stage Gas Valve Relay 1.5 amps @ 24 VAC, 60 Hz

2nd Stage Gas Valve Relay 0.5 amps @ 24 VAC, 60 Hz

Ignitor 2.0 amps @ 132 VAC, 60 Hz

Inducer Relays 2.2 FLA - 3.5 LRA @ 120 VAC

Humidifier Load 1.0 A max @ 120 VAC

Electronic Air Cleaner Load 1.0 A max @ 120 VAC

Circulator Output 12 mA RMS @ 30 VAC

Twinning Wire Requirements 14-22 AWG

Flame Current Requirements

Min. Current to ensure flame detection 0.3 ua DC

Operating Temp Range -40° to 175°F (-40° to 80°C)

Humidity Range 5% to 93% relative hum. (non condensing)

Flame Response Time 2.0 sec (max)

Gases Approved: natural, manufactured, mixed,
 liquid petroleum, and LP gas air mixtures

Board Dimensions 8.875" x 4.875"

Agency Approvals UL

1-Year Limited Warranty

TIMING SPECIFICATIONS

(All times are in seconds, unless noted otherwise)

Event	Time
Pre-Purge Time	15
Igniter Warm-Up Time	17
Trial for Ignition Period (TFI)	4
Ignition Activation Period (IAP)	3
Retries	2 times
Valve Sequence Period	15
Inter-Purge	30
Post-Purge Time	15
Lock-Out Time	300
Heat Delay-To-Fan-On	30
Heat Delay-To-Fan-Off*	90/120/150/180
Cool Delay-To-Fan-On	5
Cool Delay-To-Fan-Off	45
Automatic Reset Time	60 minutes

Note: Timing specifications at 60Hz

KIT INCLUDES

- (1) 50M58-707 integrated furnace control
- (1) wiring harness
- (1) wiring diagram label
- (1) installation instructions

CROSS REFERENCES:

Goodman/Amana	White-Rodgers
PCBBF133	50M58-289-01
PCBBF133S	50M58-289-02
PCBBF137	50M58-289-03
PCBBF137S	
PCBBF139	
PCBBF139S	
PCBBF139SK	

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