



It's time to get comfortable.

Johnson Controls Unitary Products
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DATE: December 14, 2010

YS-045-10

TO: All York Branch Service Managers
All York Distribution Service Managers
All Regional Managers

SUBJECT: 33" Gas Furnace 2 Stage Control Board Issues

PRODUCT: TM8V, TMLV & TM9V

This letter is a follow up to ST-023-10 & ST-038-10 and provides labor for replacement of the control board.

Reference service letter ST-023-10 for details regarding the "no blower" operation and service letter ST-038-10 for details regarding the "Comfort Profile" issues.

The control board was phased in around August 2009 (W0H9 furnace serial number prefix), SAP# 542766, and provided as a Source 1 replacement part for previous generation boards, S1-33102955000.

The revised control board is now available through Source 1 under part number S1-33102977000.

For field installed units, this service letter provides a one hour labor allowance for replacement of the control board. File a warranty claim through normal channels, and reference the YS service letter number to receive credit.

Note: When replacing a two stage board with separate CFM board to the new single combination board, a new 16 pin to 16 pin with 16 wires ECM motor connector cable is required (S1-02541130000), which is included in the replacement board kit. Set CFM Selectors (ADJ, COOL, DELAY and HEAT) on the new board the same as the replaced CFM Board.

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UTEC IFC Boards Two Stage with Variable ECM Motor	
LED Flashes - "Fault Codes"	Two Stage Variable/ECM Motor
	542766, S1-33102955000, 1170-121
Steady Off	No Power To Board; Door Switch Open or Control Failure
Solid LED, Any Color	Control Fault Detected; Reset Power, If It Continues - Replace Board
Slow - Green Flash^	Normal Operation; No Call For Heat , No Active Errors
Slow - Amber Flash^	Normal Operation; Call For Heat , No Active Errors
Amber Flash	Low Flame Sense Current
4 Amber Flash	Y Present Without G Call
1 Flash Red *	Flame Sensed With Gas Valve Off; Check Wiring and Earth Grounding
2 Flash Red *	Pressure Switch Stuck Closed; Check Wiring
3 Flash Red *	1st-Stage Pressure Switch Open
4 Flash Red *#	Limit or Rollout Switch Opened, Soft Lockout if Opened 5 Times in One Call for Heat
5 Flash Red * ##	Limit or Rollout Switch Opened for More Than 15 Minutes, see 4 and 11 Flash Red
6 Flash Red * #	Pressure Switch Cycle Lockout; Pressure Switch Opened Five Times During A Single Call For Heat
7 Flash Red * #	Flame Loss Cycle Lockout; Flame Not Proven After Three Tries
8 Flash Red * #	Flame Dropouts Five Times During A Call For Heat
9 Flash Red	Earth Grounding Or Reversed Line Voltage Polarity, Low Voltage Transformer Leads Reversed; Check Wiring Diagram and Earth Grounding
10 Flash Red *##	Gas Valve Energized With No Call For Heat; Check Unit Wiring
11 Flash Red * ##	Limit or Rollout Switch Opened from 5 to 15 Minutes, see 4 and 5 Flash Red
12 Flash Red	N/A
13 Flash Red	[Being Developed] 2nd Stage Pressure Switch Open With W2 Call
Normal Flash Speed = 1/3 Second On - 1/3 Second Off With 2 Seconds between groups; ^ Slow Flash = Two Second On - Two Second Off; * = Stored In Error Code Memory; # = One Hour Soft Lockout; ## = Hard Lockout, Reset Power	
Fault Code Retrieval: To retrieve fault codes, push and hold the "LAST ERROR" button for more than 1/5 second and less than 5 seconds.	
The LED will flash up to five stored fault codes. The control will flash the most recent error first and the oldest error last (last in first out). There will be a 2 second pause between the separate codes	
Solid LED error codes will not be displayed. If there are no fault codes in memory, the LED will flash two rapid green flashes.	
Fault Code Reset: To clear the fault code memory, push and hold the "LAST ERROR" button for at least five seconds. The LED will flash three rapid green flashes when the memory has been cleared.	