



ICM291 Gas Ignition Control Board

FEATURES

- Direct Spark Ignition (DSI) control board
- Microprocessor-based
- Controls combustion, blower and indoor motors, spark igniter, and the gas valve
- Monitors timing, trial for ignition, flame sensing and lockout
- 100% lockout safety feature
- Compatible with LP or Natural Gas
- Status LED for fault codes to aid in troubleshooting
- Replaces Carrier LH33WP400A

SPECIFICATIONS

- Control voltage: 24 VAC (19-30 VAC) 60 Hz
 - Line voltage: 208/230 VAC, 60 Hz
 - Power consumption: 0.24 plus gas valve current at 24 VAC
 - Operating Temperature: -40°C (-40°F) to 70°C (158°F)
- Timing**
- Pre-purge: 45 seconds
 - Trial for Ignition: 5-2 seconds
 - Burn period: every 30 sec. for 15 min.
 - Lockout: instant reset
 - Post-purge: 45 seconds
- Inputs**
- Power: W1 and C
 - Gas Valve: Interfac. R, W and O
 - Safety switches: RS, LS, and CS
 - Combustion motor: Heat Effect sensor
 - Flame Sensing
- LED Indicators**
- Red LED: Steady On: normal operation
Flashing: fault codes
- Outputs**
- Spark
 - Gas Valve: On
 - Combustion motor: Off
 - Blower motor: Off
 - Indoor fan motor: On

Safety Considerations

Only trained personnel should install or service heating equipment. When working with heating equipment, be sure to read and understand all precautions in the documentation, on labels, and on tags that accompany the equipment. Failure to follow all safety guidelines may result in damage to equipment, severe personal injury or death.

Introduction

The ICM291 DSI gas ignition control replaces the following Carrier model: LH33WP400A. The ICM291 has incorporated LED diagnostics to assist in troubleshooting. Fault code information can be found in this application guide. Please keep this application guide with the furnace installed manual for future reference.

Electrostatic Discharge (ESD) Precautions

CAUTION!

Use caution when installing and servicing the furnace to avoid and control electrostatic discharge. ESD can impact electronic components. These precautions must be followed to prevent electrostatic discharge from being both an operator and permanent. Following the precautions will protect the control from ESD by discharging static electricity safely to ground.

1. Disconnect all power to the furnace. Do not touch the control or the wiring prior to discharging your body's electrostatic charge to ground.
2. To ground yourself, touch your hand and tools to a clean, metal (unpainted) furnace surface near the control board.
3. Service the furnace after touching the chassis. Your body will recharge with static electricity as you shuffle your feet or move around, and you may re-charge yourself.
4. Re-ground yourself if you touch ungrounded items.
5. Before handling a new control, re-ground yourself; this will protect the control. Save used and new controls in separate containers before handling ungrounded objects.
6. ESD-damage can also be prevented by using an ESD service kit.

Remove Existing Control

CAUTION!

To service control, and prior to disconnection, de-energize wires. Failure to do so may result in wiring errors that can cause dangerous operation.

1. Turn thermostat to OFF position or set it to the lowest possible setting.
 2. Turn OFF electrical supply to furnace.
 3. Turn OFF gas supply to furnace.
- A. CAUTION:** Failure to turn off gas and electric supplies can result in explosion, fire, death, or personal injury.
4. Remove furnace blower and control access doors.
 5. Disconnect thermostat wires and humidifier wires (if equipped with a humidifier).
 6. Disconnect line voltage, blower electrical air cleaner wires (if equipped), and transformer wires. Remove screws and any other fasteners, and the old control board.
 8. Examine control and control box to check for water stains.
 9. Make repairs if any evidence of water leakage are found. Be sure to check furnaces, evaporator coils, and vent systems in the area of the control.

Install New Control

1. Ground yourself. When handling circuit board, hold it by the edges.
2. Fasten circuit board with retaining screws.
3. Connect all line voltage, low voltage, and accessory wires.
4. Verify the sequence of operation.

Sequence of Operation

A W call from the T stat will engage the combustion motor, ignition sequence begins, gas valve and spark are engaged, providing that system safety switches (RS, LS, and CS) are closed and there is feedback from the combustion motor Heat Effect sensor. The blower and indoor motors will engage 45 seconds after flame is established and sensed. They discharge 45 seconds after W call is satisfied.

A G call from the T stat will engage blower and indoor motors right away. They discharge 20 seconds after G call is removed.

Troubleshooting Tips

Flame not established

1. If flame is not established during the 5-2 initial sequence then the control will start the next trial for ignition in 20 seconds.
2. The attempt to ignite will continue for 10 minutes before the respective fault code is triggered and ignition trials are stopped.
3. The gas valve is energized only during the ignition sequence of 5-2 seconds.
4. Blower and indoor fan motors are off and flame is established and 45 seconds later.

Flame out

1. Flame out is considered when flame is lost during heating.
2. When W signal is present and flame is sensed but then the spark will start right away.
3. If flame is not established on the immediate sequence (2 above) then the control will continue attempts every 20 seconds for 10 minutes before the respective fault code is triggered and ignition trials are stopped.
4. Blower and indoor fan motors will continue running during flame out scenario for 10 minutes + 45 seconds.
5. Combustion motor remains on throughout the flame out scenario.

Flame out of sequence

1. Flame out of sequence represents a scenario when flame is sensed while W signal is not present.
2. Combustion, blower and indoor fan motors will be engaged (if not already running) right away and keep running for as long as the fault condition is present.
3. The unit is operable but will display the fault code constantly until replaced by another fault code or power reset.

No signal from the Heat effect sensor

1. On a W call, if the input from the heat effect sensor (RH0) is not present for more than a minute, then the combustion motor will continue running endlessly and the respective fault is flashed.
2. During running state if the input from the heat effect sensor is not sensed then the gas valve will shut off right away, blower and indoor fan motors will continue running for 30 seconds and then turn off, combustion motor runs continuously.

LED Fault Codes

# OF Flashes represents Constant On Normal operation	Results
1	The control has modified the fan-on delay to 5 and off delay to 3 minutes due to sensing LS trip within 10 minutes of a call
2	a) LS is open due to high temperature (fan isn't working scenario) b) The unit will not start a trial for ignition and the switch closes back c) Flame sensed out of sequence.
3	a) The unit is operable, however will display this fault code until power reset or another code
4	a) LS opened 4 consecutive times during a call for heating b) The fault code is reset on the next W call
5	a) Ignition lockout. The control tried unsuccessfully to ignite for 10 minutes b) The unit will not operate. Requires power reset
6	a) The combustion motor is not sensed running Off CO open b) The unit will not operate. Requires power reset
7	a) RS tripped b) The unit will not operate. Requires power reset
8	a) Internal control fault (software self check)

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RD Boyd



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