Carlin® Combustion Technology

Model 70200 Control Message Guide

Error/Status Message	Explanation	What to Check
Motor Safety On	• Bad motor or dead short • Welded relay contacts	• Check voltage at the time of the fault • If control will not reset replace the control
Flame Detected	• CAD cell seeing light • Short in cad cell harness	• Check CAD cell ohms in darkness • Check ohms on the cad cell harness
Motor Output On	• Bad motor or dead short • Welded relay contacts • Low voltage issue	• Check the motor for internal failure or dead short • Replace control
No Call for Heat	• No call for heat, control in standby	
Pump Prime	• Reset button has been depressed for 10 seconds	• Check reset button
No Flame	• Flame expected, but not detected • Motor, Valve and Ignitor current readings are all above the minimum	• Check CAD cell ohms in fault history • Ohms above tolerance setting
Recycle Limit	• Control lockout due to reaching programed recycle limit	• Check for high vacuum • Ensure oil supply sufficient • Burner coupling slipping • Poor flame retention
Low Line Volts	• Input voltage below 98 AC	• Check line voltage
High Line Volts	• Input voltage over 140 AC	• Check line voltage
Blocked Intake	• Control lockout due to CAP System/air intake blocked	• Check outdoor termination point or air intake for obstruction • Check length of intake pipe for damage/obstruction
Blocked Exhaust	• Control lockout due to exhaust vent blocked	• Check vent/flue pipe for obstruction • Check chimney for blockage • Check blocked vent switch (if equipped)
No Flame ck Vlv	• Control lockout due no flame and low valve power	• Check valve connection and functionality
No Flame ck Mtr	• Control lockout due no flame and valve & ignitor power are good, but motor power is low	• Check motor connection and functionality • Check voltage at time of fault • Check motor running amps
No Flame ck Ign	• Control lockout due no flame and valve power is good, but ignitor power is low	• Check ignitor connection and functionality
No Limit In	• No power detected on limit input	• Check limit input wiring
FlameLate Ck Cad	• Flame not seen within first 5 seconds of TFI • Delayed ignition	• Check electrode setting • See other No Flame causes

SEE OTHER SIDE FOR ADDITIONAL MESSAGES

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Error/Status Message	Explanation	What to Check
Ohms Low Ck Cad	• CAD cell seeing unexpected light	• Check CAD cell, CAD cell holder, harness wires
Ohms High Ck Cad	• Flame is seen, but Ohms high, flame loss potential	• Check combustion set-up • Losing flame retention • High draft or vacuum
Reset Stuck	• Reset button held for too long (>10 seconds)	• Ensure reset button not being pressed/stuck
Replace Control	• Fatal control condition	• Replace control
Lost Flame	• Flame lost during normal operating sequence	• Check CAD cell ohms while the burner is running • Check combustion set-up • Oil line/supply issue • High vacuum or draft
Flame @ Preignit	• Unexpected flame during pre-ignition	• Stuck valve • RF interference/AC line noise • Are tabs properly aligned with electrodes
Flame @ Prepurge	• Unexpected flame during prepurge	• Stuck valve • If the burner does not have a valve, select “valve delay on” in the set up menu then select “no valve” • RF interference/AC line noise • Are tabs properly aligned with electrodes
Flame@Postpurge	• Unexpected flame during postpurge	• Stuck valve • RF interference/AC line noise
Latch Up	• 3 consecutive lockouts in a single call for heat	• Correct cause of lockout then press and hold reset button for 30 seconds
CRC Failure	• Fatal control condition	• Replace control
Loss of Flame, Post Purge	• Control lost flame and entered post purge, followed by Recycle	• Check CAD cell ohms while the burner is running • Check combustion setup • Oil line/supply issue • High vacuum or draft
No Flame; High Motor Current	• Lockout due to no flame + motor current not dropping below 50% from its peak startup reading	• Check motor • Check pump

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