

Commander Series UCG 270-399k BTU Input - ICON HD Sola Serial Date Code "PL" (November 2017) and later*

Error Code	Definition	Service Action	Possible Parts Needed
No Code	No power to the unit or switch is off	Check power supply	1) Transformer 2) Control board 3) Display
3-48, 58-60	Internal fault	Verify transformer output is 22-27 Vac	1) Control board 2) Transformer
49	Voltage too low or high	Verify proper supply voltage Verify transformer output is 22-27 Vac	1) Transformer
53	AC input phase reversed	Check for proper grounding/polarity Verify the wiring connections J4-10 and J8-2 are connected together	1) Control board
62	Fan speed not proved (soft lockout)	Check for vent/intake restriction Check blower modulation wire harness at J2 connection for continuity Verify 17-30 VDC between yellow and green wires on blower 5 wire harness	1) Blower 2) Control board
67	Interlock off (blocked vent switch in open position)	Check if blocked vent switch is open Check for vent restriction Verify adequate draft--confirm downdraft not present	1) Blocked vent switch 2) Control board
80	High limit overheat condition	Measure resistance of temp sensor Check wire harness and connections	1) Tank temperature sensor 2) Control board
93	Tank temperature sensor fault	Measure resistance of temp sensor Check wire harness and connections	1) Tank temperature sensor 2) Control board
105	Flame detected out of sequence	Check flame rod/wire Verify ignition cable is not crossing flame sense/ignition ground wires	1) Flame sensor
110	Ignition failure after 4 trials (soft lockout)	Verify ignition sequence Clean spark rod Clean flame sensor	1) Burner 2) Spark rod 3) Control board
122	Light off rate proving failed (fan speed not proved - hard lockout)	Check for vent/intake restriction Check blower modulation wire harness at J2 connection for continuity Verify 17-30 VDC between yellow and green wires on blower 5 wire harness	1) Blower 2) Control board
123	Purge rate proving failed (fan speed not proved)	Check for vent/intake restriction Check blower modulation wire harness at J2 connection for continuity	1) Blower 2) Control board
137	Interlock off (blocked vent switch in open position)	Check if blocked vent switch has opened Check for vent restriction Verify adequate draft--confirm downdraft not present	1) Blocked vent switch 2) Control board
NOTE:	If there is no display, check primary/secondary voltage Before troubleshooting, always verify the following: Gas inlet pressure All wire connections are tight Static to dynamic gas pressure drop No grounded wires or missing grounds No vent restrictions No water leaks		

*If serial is at or near this date please contact Technical Support to verify control generation. Always check the manufacture date using the For The Pro® Contractor app or at bradfordwhite.com