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SUB-ZERO ICBBI Series ICB Built in Refrigerator Instruction Manual

Troubleshooting

ICB Built-In (ICBBI) Series (SWS #4380000)



TROUBLESHOOTING GUIDES

This section of the manual contains:

- The Fault Code Table with LCD Correlation Diagram
- The Fault Codes Troubleshooting Guide
- The General Troubleshooting Guide.
- The Sealed System Diagnostic Tables

USING THE FAULT CODE TABLE / LCD DIAGRAM & FAULT CODE TROUBLESHOOTING GUIDE

1. Initiate Diagnostic Mode – With the unit ON, press and a COLDER key, and press the POWER key, then release both keys (See Figure 7-1).

NOTE: If Fault Codes have already been logged the control will enter Fault Code Recall Mode instead of Diagnostic Mode. If this happens press the ALARM key to shift the control into Diagnostic Mode. Do **NOT** skip step 2 below if Fault Codes are already present.

2. Initiate Self Test Mode – With the unit ON and in Diagnostic Mode, press and hold COLDER and WARMER keys, then the POWER key, then release all three keys (See Figure 7-2). Self Test Mode will last for five (5) seconds.
3. Initiate Fault Code Recall Mode – With the unit ON, press and a COLDER key, and press the POWER key, then release both keys (See Figure 7-3). (See the Fault Code Table with LCD Correlation Diagram on pages 7- 3 and 7-4)
- NOTE:** Press a WARMER or COLDER key to toggle through the Fault Codes.
4. Locate the matching code(s) in the left column of the Fault Code Troubleshooting Guide (starting on page 7-5).
5. Follow the Test/Actions as listed in the right column next to the code.
6. If Fault Codes are not present but the appliance is having problems, move onto the General Troubleshooting Guide.



Figure 7-1. Initiate Diagnostic Mode - Press and Hold a COLDER Key, Then the POWER Key

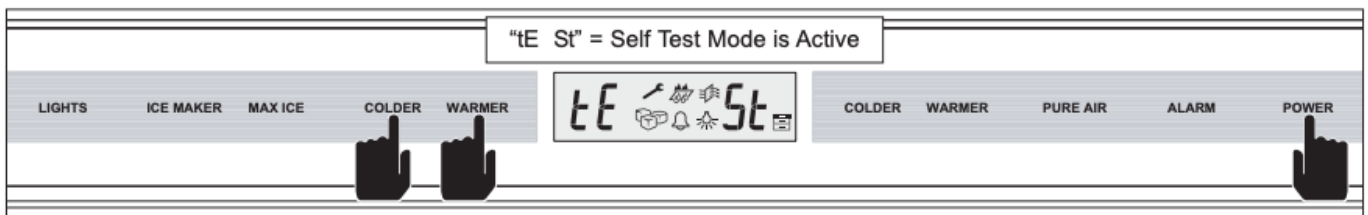


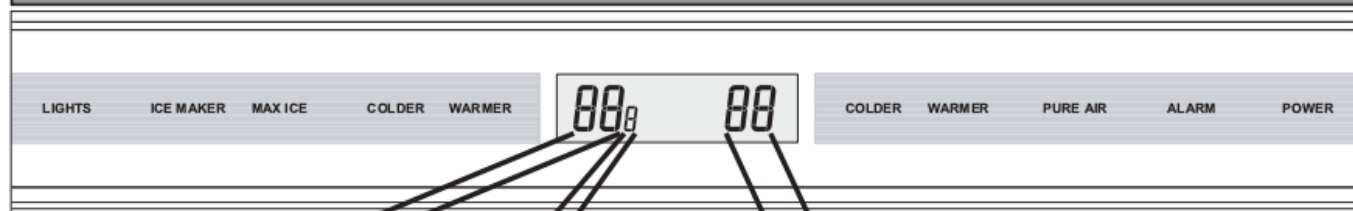
Figure 7-2. Initiate Self-Test Mode - While in Diagnostic Mode, Press COLDER, WARMER and POWER Keys



Figure 7-3. Initiate Fault Code Mode - Press and Hold a COLDER Key, Then the POWER Key

The Fault Code Table with LCD Correlation Diagram

FAULT CODE TABLE WITH LCD CORRELATION DIAGRAM (PAGE 1 of 2)



10	Thermistor Faults
15	Relay Faults
20	Defrost Heater Faults
30	Ice/Water/Accessory Faults
35	Fan Faults
40	Runtime Faults
44	Glass Heater Faults
45	Lighting Faults
50	Flow Meter
60	Load/Component Faults
90	Control Faults
95	Diagnostics
98	Power Faults

0	Misc
1	Refrigerator
2	Freezer
3	Condenser
4	Defrost System
5	Control System
6	Compressors
7	Ambient
8	Icemaker
9	Dispenser
A	Air Purifier
d	TC Drawer
F	Freezer Evaporator
H	High Voltage System
L	Lighting
r	Refrigerator Evaporator
U	Water Systems

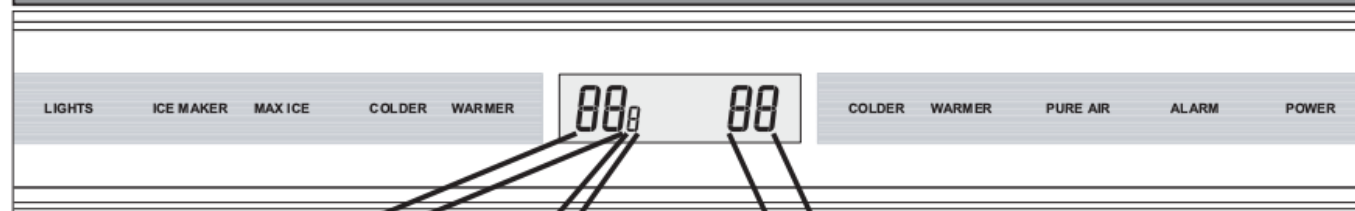
00	Open
01	Short/Closed
02	Unstable
05	Miswire normal temps
06	Miswire overheat
07	Bad Ohms
09	Too Warm/Large Temp Differential
10	Second Device Open
11	Second Device Short/Closed
12	Second Device Unstable
20	Third Device Open
21	Third Device Short/Closed
22	Third Device Unstable
25	Diagnostics Failure
30	Valve Enabled Too Long
33	Speed Setting too Low
34	Speed Setting too High
35	Fan speed error
36	Fan current too low
37	Fan current too high
38	Fan Power Output Fault
39	DC Fan Output Fault
40	Excessive runtime
42	Primary Heater Fault
43	Secondary Heater Fault
44	Door Heater Output Fault
45	Burned out Light
46	No Position/State Detect

NOTE: These Columns are repeated on next page

NOTE: This Column is continued on next page

NOTE: There are three fault codes not covered in this table, they are “LO C”, “H2 LO” and “dO Or”. These are explained under the heading of “Possible Instruction and Error/Fault Indicators” in section 3.

FAULT CODE TABLE WITH LCD CORRELATION DIAGRAM (PAGE 2 of 2)



10	Thermistor Faults
15	Relay Faults
20	Defrost Heater Faults
30	Ice/Water/Accessory Faults
35	Fan Faults
40	Runtime Faults
44	Glass Heater Faults
45	Lighting Faults
50	Flow Meter
60	Load/Component Faults
90	Control Faults
95	Diagnostics
98	Power Faults

0	Misc
1	Refrigerator
2	Freezer
3	Condenser
4	Defrost System
5	Control System
6	Compressors
7	Ambient
8	Icemaker
9	Dispenser
A	Air Purifier
d	TC Drawer
F	Freezer Evaporator
H	High Voltage System
L	Lighting
r	Refrigerator Evaporator
U	Water Systems

50	Open Heater
55	Triac Open
56	Triac Short
60	No Load/Load Open
65	Stuck at Dispenser Water Valve Out
66	Stuck at Ice Water Valve Out
70	Bad Flash Write
71	Flash Initialized
72	Flash Memory Bad
73	Invalid Log Fault Checksum
74	Invalid E2 Checksum
75	Invalid Model E2 Checksum
80	No Communication
81	Communications Time-out
82	Partial Communications
83	Bad Micro Communication
84	Micro Initialization
85	Display Failure
86	Too Slow
87	No Flow
90	Framing Errors
92	Excessive Collisions
93	Data Overrun
95	FMEA Error
96	Calibration or Low Signal Error
97	Quantum SPI
98	Brownout
99	Other

NOTE: These Columns are repeated from last page

NOTE: This Column is continued from last page

NOTE: After repairs, clear Fault Codes by pressing the ALARM key for fifteen (15) seconds. Failure to clear Fault Codes will result in the highest priority fault indicator reappearing on the LCD when the unit is switched back ON.

The Fault Codes Troubleshooting Guide

Fault Code Troubleshooting Table		
CODE	SERVICE ICON STATE	TEST / ACTION
10 1 00	ON	Refrigerator Cabinet Thermistor Open. Check ohms and verify temperature readings.
10 1 01	ON	Refrigerator Cabinet Thermistor Shorted. Check ohms and verify temp. readings.
10 1 02	ON	Refrig. Cabinet Thermistor Unstable. Check for bad connections / damaged wires.
10 2 00	ON	Freezer Cabinet Thermistor Open. Check ohms and verify temperature readings.
10 2 01	ON	Freezer Cabinet Thermistor Shorted. Check ohms and verify temperature readings.
10 2 02	ON	Freezer Cabinet Thermistor Unstable. Check for bad connections / damaged wires.
10 3 00	ON	Condenser Thermistor Open. Check ohms and verify temperature readings.
10 3 01	ON	Condenser Thermistor Shorted. Check ohms and verify temperature readings.
10 3 02	ON	Condenser Thermistor Unstable. Check ohms and verify temperature readings.
10 3 10		This code is currently inactive. Please Ignore.
10 3 11		This code is currently inactive. Please Ignore.
10 3 12		This code is currently inactive. Please Ignore.
10 7 00		Ambient Thermistor Open. Check ohms and verify temperature readings.
10 7 01		Ambient Thermistor Shorted. Check ohms and verify temperature readings.
10 7 02		Ambient Thermistor Unstable. Check ohms and verify temperature readings.
10 F 00	ON	Freezer Evaporator Thermistor Open. Check Ohms and verify temperature Readings.
10 F 01	ON	Freezer Evaporator Thermistor Shorted. Check Ohms and verify temp. Readings.
10 F 02	ON	Freezer Evaporator Thermistor Unstable. Check for bad connections / damaged wires.
10 r 00	ON	Refrigerator Evaporator Thermistor Open. Check Ohms and verify temp. Readings.
10 r 01	ON	Refrigerator Evaporator Thermistor Shorted Check Ohms and verify temp. Readings.
10 r 02	ON	Refrig. Evaporator Thermistor Unstable. Check for bad connections / damaged wires.
10 r 09		Refrig. Evaporator thermistor read higher than cabinet thermistor by at least ten (10) degrees. Error may indicate problem with thermistor or a unique evap related problem.
15 1 00	FLASH W/CHIME	Refrigerator Compressor Relay stuck open. No power to Compressor. Verify, replace control board.
15 1 01	FLASH W/CHIME	Refrigerator Compressor Relay is stuck closed. Power to compressor at all times. Verify, replace control board.

Fault Code Troubleshooting Table

CODE	SERVICE ICON STATE	TEST / ACTION
15 2 00	FLASH W/CHIME	Freezer Compressor Relay stuck open. No power to Compressor. Verify, replace control board.
15 2 01	FLASH W/CHIME	Freezer Compressor Relay is stuck closed. Power to compressor at all times. Verify, replace control board.
15 4 00	ON	Defrost Relay is stuck open. No power to defrost heater. Verify, replace control board.
15 4 01	FLASH	Defrost Relay stuck closed. Power to defrost heater at all times. Verify, replace control board.
15 8 00		Icemaker Relay is stuck open. No power to icemaker. Verify, replace control board.
15 8 01		Ice Maker Relay stuck closed. Power to icemaker at all times. Verify, replace control board.
15 8 10		Ice Accessories Relay is stuck open. No power to ice accessories (fill tube heater, mullion heater). Verify, replace control board.
15 8 11		Ice Accessories Relay is stuck closed. Power to ice accessories (fill tube heater, mullion heater) at all times. Verify, replace control board.
15 9 00		Dispenser Auger Relay stuck open. No power to auger. Verify, replace control board.
15 9 01	ON	Auger Relay is stuck closed. Power to auger at all times. Verify, replace control board.
15 9 65		Water Valve Selecting Relay stuck at Dispenser water position. Ice making system disabled. Replace control board.
15 9 66		Water Valve Selecting Relay stuck at Icemaker water position. Replace control board.
15 L 00		Main Lights Relay stuck open. Power to lights at all times. Verify, replace control board.
15 L 01		Main Lights Relay is stuck closed. No voltage to lights. Verify, replace control board.
15 L 55		This code is currently inactive. Please Ignore.
15 L 56		This code is currently inactive. Please Ignore.
15 U 00		Water Valve Relay is stuck open. No power to water valve. Verify, replace control board.
15 U 01	FLASH W/CHIME	Water Valve Relay is stuck closed. Power to water valve at all times. Verify, replace control board.
15 U 10		Water Check Valve Relay is stuck open. No power to check valve. Verify, replace control board.
15 U 10		Water Check Valve Relay is stuck closed. Power to water valve at all times. Verify, replace control board.

Fault Code Troubleshooting Table

CODE	SERVICE ICON STATE	TEST / ACTION
20 2 00	ON	Defrost Bi-metal stuck open. Verify the bi-metal is open circuit below 40°F (4°C). Replace if necessary.
20 2 01	ON	Defrost Bi-metal stuck closed. Verify the bi-metal is closed above 70°F (21°C). Replace if necessary.
20 2 05		Mis-wired Bi-metal. Normal temps during defrost, but inappropriate response from bi-metal. Check wiring and bi-metal mounting.
20 2 06	ON	Mis-wired Bi-metal. High temps during defrost, and inappropriate response from bi-metal. Check wiring and bi-metal mounting.
20 2 07		Defrost Bi-metal Error - Check Bi-metal ohms. Replace heater if necessary.
20 2 50	ON	Defrost Heater Open. Verify wiring and heater. Check heater ohms. Replace heater if necessary.
30 8 00		Ice accessories open circuit. Check wiring for fill tube heater (and mullion chute heater, if equipped).
30 8 05		No signal from icemaker for fill. Check wiring and power to ice maker.
30 8 10		Icemaker open circuit. Check power and wiring to icemaker.
30 8 30	Flash w/Chime	Water valve not opened but water observed passing through.
30 9 01		Bulk Ice Switch stuck closed. Bulk ice switch pressed/closed for >5 seconds with door closed.
30 9 10		Dispenser auger open. Check wiring and power to auger motor. Check auger ohms.
30 9 80		Check communications cable to dispenser.
30 9 86		Chute motor timed out. Chute motor failed to reach open or closed position. Verify motor and chute are moving freely and not jammed or blocked. Replace dispenser assembly if necessary.
30 U 00		Water valve open. Check wiring and power to water valve. Check solenoid ohms.
30 U 10		Dispenser water valve open. Check wiring and power to water valve. Check solenoid ohms.
30 U 20		Water Check Valve open circuit. Solenoid is open.
35 3 00		This code is currently inactive. Please Ignore.
35 3 35		This code is currently inactive. Please Ignore.
35 A 36		Check air filter fan is connected properly and functioning.

Fault Code Troubleshooting Table

CODE	SERVICE ICON STATE	TEST / ACTION
35 A 37		Check air filter fan is connected and no shorts are evident.
35 F 33		Check Freezer evap. fan for obstructions that cause inability to achieve full speed.
35 F 34		Verify Freezer evaporator fan not shorted - the fan is running faster than its setting.
35 r 33		Check Refrigerator evap. fan for obstructions that cause inability to achieve full speed.
35 r 34		Verify Refrig. evaporator fan not shorted - the fan is running slower than its setting.
40 1 38		Refrigerator stepper valve communication fault. Replace control board.
40 1 40	ON	Excessive Refrigerator run time. Verify performance of unit and check for door leaks, door ajar, proper charge in system, and icing of evap.
40 2 38		Freezer stepper valve communication fault. Replace control board.
40 2 40	ON	Excessive Freezer run time. Verify performance of unit and check for door leaks, door ajar, proper charge in system, and icing of evap.
40 8 40		Icemaker ran for maximum fill time without achieving necessary volume. Check for water system blockages, kinked water lines, proper water pressure to unit.
40 9 40		Dispenser active for maximum fill time. Water was dispensed for 150 seconds. Verify no stuck keys or flooding.
40 b 38		Baffle stepper communication fault. Replace control board.
44 0 00		Glass door heater open circuit. Check wiring and power to heater. Check heater ohms.
44 0 01		Glass door heater short circuit. Check wiring and power to heater. Check heater ohms.
44 9 42		1 watt glasswell heater not detected. Check wiring and power to heater. Check heater ohms.
44 9 43		4 watt glasswell heater not detected. Check wiring and power to heater. Check heater ohms.
45 1 00		Main Refrigerator lights open circuit. Check lights and wiring.
45 2 00		Main Freezer lights open circuit. Check lights and wiring.
45 1 01		Main Refrigerator lights short circuit. Check lights and wiring.
45 2 01		Main Refrigerator lights short circuit. Check lights and wiring.
45 A 45	FLASH AIR FILTER ICON	Air filter light burned out. Replace air filter cartridge.
45 L 00		Accent lights open circuit. Check lights and wiring.

Fault Code Troubleshooting Table		
CODE	SERVICE ICON STATE	TEST / ACTION
45 L 01		Accent lights short circuit. Check lights and wiring.
50 U 80		Water Flow meter not detected. Verify power and wiring to flow meter assembly. If power and wiring are OK, replace flow meter assembly.
50 U 86		Water Flow meter detected low flow. Verify water pressure and check for any water system obstructions.
50 U 87		Water Flow meter did not detect flow. Verify water pressure, water flow, and that meter is not blocked or dirty.
60 1 02		Refrigerator variable speed compressor communication error. Replace control board.
60 1 38		Refrigerator variable speed compressor communication error. Replace control board.
60 1 60	ON	No Refrigerator compressor load detected. Check compressor electricals and wiring.
60 2 02		Freezer variable speed compressor communication error. Replace control board.
60 2 38		Freezer variable speed compressor communication error. Replace control board.
60 2 60	ON	No Freezer compressor load detected. Check compressor electricals and wiring.
90 0 70		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 71		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 72		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 73		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 74		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 75		Flash Failure. Reconfigure control board. Replace control board if reconfigure fails.
90 0 81		Microcontroller fault. Replace control board if fault is active.
90 0 90		Microcontroller fault. Replace control board if fault is active.
90 0 92		Microcontroller fault. Replace control board if fault is active.
90 0 93		Microcontroller fault. Replace control board if fault is active.
90 3 38		This code is currently inactive. Please Ignore.
90 3 55		Condenser fan triac Open. Verify condenser fan operation. Replace control board if fault is active.
90 3 56		Condenser fan triac shorted. Verify condenser fan operation. Replace control board if fault is active.

Fault Code Troubleshooting Table

CODE	SERVICE ICON STATE	TEST / ACTION
90 5 01		Key shorted or damaged on Control Panel. Verify key performance. Replace Control Panel.
90 5 38	ON	12V Fan power output fault. Verify constant 12V DC to evaporator fan. Replace control board if fault is active.
90 5 39		This code is currently inactive. Please Ignore.
90 5 44		Glass door heater output fault. Check wiring and power to heater. Replace control board if fault is active.
90 5 80		No keypad communications. Check wiring and key performance of Control Panel.
90 5 85		User display failure. Replace Control Panel.
90 5 95		Key shorted or damaged on Control Panel. Verify key performance. Replace Control Panel.
90 5 96		Key shorted or damaged on Control Panel. Verify key performance. Replace Control Panel.
90 5 97		Control Panel microcontroller problem. Verify key performance. Replace Control Panel.
90 5 99		Control Panel error. Verify key performance. Replace Control Panel.
90 9 80		No communications with door dispenser. Check proper model configuration. Check wiring to dispenser.
90 A 38		Air filter fan output fault on control board. Replace control board if fault is active.
90 A 56		This code is currently inactive. Please Ignore.
90 b 80		No stepper micro communication. Replace control board
90 F 38	ON	Freezer evap fan output fault on control board. Verify if fan is working. Replace control board if fault is active.
90 H 80	ON	Communications problems on main board. Replace control board.
90 H 82		Intermittent communications on main board. Replace control board.
90 H 83		Communications problems on main board. Replace control board.
90 H 84		Initialization fault. Power unit OFF, then ON, and verify if code remains active. Replace control board if fault is active.
90 L 38		Check if accent lights are working. Replace control board if fault is active.
90 r 38	ON	Refrigerator evaporator fan output faulted. Verify fan operation. Replace control board if fault is active.

Fault Code Troubleshooting Table		
CODE	SERVICE ICON STATE	TEST / ACTION
95 1 25		Verify Refrigerator evaporator is cooling properly when compressor is on. Check sealed system charge if not.
95 2 25		Verify Freezer evaporator is cooling properly when compressor is on. Check sealed system charge if not.
95 1 00		Refrig. compressor microprocessor pin stuck in off position. Replace control board.
95 1 01		Refrig. compressor microprocessor pin stuck in on position. Replace control board.
95 2 00		Freezer compressor microprocessor pin stuck in off position. Replace control board.
95 2 01		Freezer compressor microprocessor pin stuck in on position. Replace control board.
98 0 98		Brownout conditions were detected.
d0 0r		Door Ajar Alarm is off; door is left open more than 5 minutes; audible alarm chimes. Alarm stops when door is closed. A 5 minute UIM time out (no response from UIM) follows the closing of the door.
H2 L0		Over 1 gallon of water dispensed within 15 minutes, or water valve energized 150 seconds. "H2 LO" displayed for 5 seconds and 3 chimes are emitted when water paddle pressed. Dispensing interrupted for 45 minutes, or press water paddle 5 times in 20 seconds to bypass dispense off.
L0 C		Control panel locked. Door switch detected as depressed (Door Closed), but control panel keys were pressed, or door was left open more than five (5) minutes. Bypass locked control panel by holding Alarm key, then press either Colder key twice. With control panel unlocked check for defective switch, &/or orange or yellow wire disconnected/defective between control board and door switch. Make repairs if needed. If all check OK, disconnect power to unit, then reconnect.

The General Troubleshooting Guide

NOTE: After repairs, clear Fault Codes by pressing the ALARM key for fifteen (15) seconds. Failure to clear Fault Codes will result in the highest priority fault indicator

reappearing on the LCD when the unit is switched back ON.

PROBLEM	POSSIBLE CAUSE	TEST / ACTION
A. Warm or Erratic Temperatures without Service Icon Illuminated or Flashing on LCD	No Power to Unit	Check power to unit, plug unit in or switch supply circuit breaker ON.
	Unit Switched OFF	Check for "O FF" displayed at LCD. If off, press POWER key.
	Unit in Showroom Mode	Press POWER key to OFF, then press and hold WARMER & COLDER keys, and press POWER key.
	Control Set-Point Too High	Check set-point. If high, adjust.
	Warm Food Load	Check for warm food load. Instruct customer.
	High Room Ambient	Instruct customer unit performs best between 60°F(16°C) and 90°F(32°C).
	Control Board Configured for Wrong Model	Check model configuration; reconfigure if needed.
B. Service Icon Illuminated Steady, or Flashing, or Flashing with Alarm Chiming	Unit Needs Attention	See Fault Code Troubleshooting Guide
C. Ice Cube Icon Flashing without Service Icon	Unit and/or Water Supply Needs Attention	See Fault Code Troubleshooting Guide
D. "EE" Displayed in Place of Freezer Temperature	Freezer Compartment Thermistor Disconnected, Shorted, or Misread	Check wiring from thermistor to control board. Reconnect/repair connections. Resistance of thermistor = 30,000-33,000 ohms at 32°F/0°C. Replace if defective.
	Incorrect Model Configuration.	Check model code and change if needed.
E. "EE" Displayed in place of Refrigerator Temperature	Refrigerator Compartment Thermistor Disconnected, Shorted, or Misread	Check wiring from thermistor to control board. Reconnect/repair connections. Resistance of thermistor = 30,000-33,000 ohms at 32°F/0°C. Replace if defective.
	Incorrect Model Configuration.	Check model code and change if needed.
F. 1. "Extremely" Cold Temperatures Displayed (1° to 7° in Refrigerator; -21° to -15° in Freezer) 2. If outside US - "Extremely" Warm Temperatures Displayed (34° to 45° in Refrigerator; -5° to 5° in Freezer)	1. Control Set to Display Celsius but Customer Thought it Was Fahrenheit	1. Switch unit OFF, then ON, then press & hold Bell key and POWER key for 10 seconds.
	2. If Outside US - Control Set to Display Fahrenheit but Customer Thought it Was Celsius	2. Switch unit OFF, then ON, then press & hold Bell key and POWER key for 10 seconds.
G. Water Filter Icon Illuminated on LCD	Water filter has reached capacity or time limit; must be replaced	Replace water filter, then press reset button behind unit grille for five (5) seconds to clear filter icon from LCD and reset counters to zero.

PROBLEM	POSSIBLE CAUSE	TEST / ACTION
H. Air Purifier Icon Flashing on LCD	Air Purifier cartridge has reached time limit; must be replaced	Replace air purifier cartridge, then press PURE AIR key for five (5) seconds to clear flashing icon from LCD and reset counter to zero.
I. "SA" and "b" displayed on LCD	Unit is Sabbath Mode	Press POWER key to force unit out of Sabbath Mode.
J. Double Dashes "- -" in Place of Temperature Readings on LCD	Zone Disabled	Re-enable Zone: Switch unit off, then press WARMER key for that zone and POWER key, then release all keys.
K. LCD is Blank with Warm or Erratic or Normal Temperatures	No Power to Unit	Check power to unit, plug unit in or switch supply circuit breaker ON.
	Electrical Outlet Polarity is Reversed	Check polarity at outlet; if incorrect, instruct customer to contact Electrical Contractor.
	Broken/disconnected communication wire between control board & control panel	Check communication wiring between control board and control panel. Reconnect/repair connections. Replace control panel if defective.
L. "LO C" displayed on LCD. No lights and Control Panel Inoperative.	See Fault Code troubleshooting Table	See Fault Code troubleshooting Table
M. "H2 LO" Displayed on LCD when Water Padle Pushed and no Water Dispenses.	(Internal Dispenser Models Only) - See Fault Code troubleshooting Table	See Fault Code troubleshooting Table
N. "dO Or" Displayed on LCD and Alarm is Chiming	(Currently French Door Model Only) - See Fault Code troubleshooting Table	See Fault Code troubleshooting Table
O. Ice and/or Water Dispenser Inoperative, but no Fault Code (BI-42SD, BI-42SID, BI-48SD and BI-48SID ONLY)	Defective or disconnected dispenser assembly or defective main control board	Press ICE and WATER keys on dispenser assembly; 1. If dispenser cylinder valve does not open and water and ice do not dispense, check wiring connections between dispenser and main control board; repair bad connections, if good, replace dispenser assembly. 2. If dispenser cylinder valve does not open, but water or ice do dispense, replace dispenser assembly. 3. If dispenser cylinder valve opens, but water or ice do not dispense, replace main control boards.









The Sealed System Diagnostic Tables

NORMAL OPERATING PRESSURES TABLE NOTES:

- Only enter the sealed system to check pressures if the Fault Code Troubleshooting Guide and General Troubleshooting Guide could not pinpoint the cause of the temperature problem.
- Always use solder-on process valves when entering the sealed system. Do NOT use bolt-on process valves as they are prone to leak.
- Whenever servicing the sealed system, the high-side filter-drier MUST be replaced.
- Pressures listed below are not indicative of initial pull down, but rather of a steadily

running and properly functioning appliance.


- Pressures listed are for reference only, as actual pressure readings may vary because of one or more of the following reasons:
 1. Ambient temperatures (Pressures are based on a 21°C (70°F) Ambient).
 2. Temperature set-points (Pressures listed are based on set-points of -18°C (0°F) in freezers and 3°C (38°F) in refrigerators)
 3. Food load quantity and temperature.
 4. Condenser cleanliness.
 5. Whether or not one or both refrigeration systems are operating.
 6. Gauge calibration.

NORMAL OPERATING PRESSURES		
Model	Low-Side	High-Side
ICBBI-36R Refrigerator	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-36F Freezer	20" Vac - 0 psi to 10" VAC - 5 psi	10" Vac - 5 psi to 35-70 psi
ICBBI-36S 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-36UID 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-36UFDID 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-42S 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-42SD 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-48S 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-48SD 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi
ICBBI-48SID 	10" Vac - 5 psi to 5 - 15 psi	5 - 15 psi to 25 - 60 psi

PRESSURE INDICATIONS		
<i>If low-side pressure is</i>	<i>& high-side pressure is</i>	<i>possible problem is</i>
<i>NORMAL</i>	<i>NORMAL</i>	<i>MECHANICAL</i> <i>(see General Troubleshooting Guide)</i>
<i>LOW</i>	<i>LOW</i>	<i>LEAK</i>
<i>LOW</i>	<i>HIGH</i>	<i>RESTRICTION</i>
<i>HIGH</i>	<i>LOW</i>	<i>INEFFICIENT COMPRESSOR</i>
<i>HIGH</i>	<i>HIGH</i>	<i>OVER CHARGE</i>

#7040319 – Revision A – December, 2015

Documents / Resources

	SUB-ZERO ICBBI Series ICB Built in Refrigerator [pdf] Instruction Manual BI-257, BI-271, ICBBI Series ICB Built in Refrigerator, ICBBI Series, ICB Built in Refrigerator, Built in Refrigerator, Refrigerator
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References

- [User Manual](#)

■ SUB-ZERO

🔍 BI-257, BI-271, Built-in Refrigerator, ICB Built in Refrigerator, ICBBI Series, ICBBI Series ICB Built in Refrigerator, Refrigerator, SUB-ZERO

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