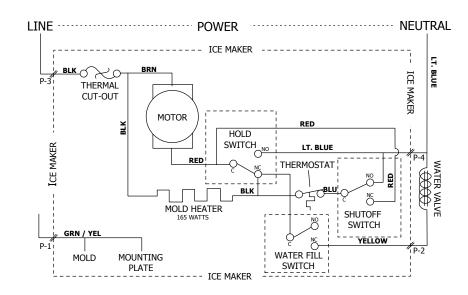
PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT 37°/0° CONTROL SETTING					
Type A with Run / Start Capacitor	65°F (18°	C) Ambient	90°F (32°C) Ambient		
Operating Time	90 to	100%		100%	
Freezer Temperature		o 2ºF o -17ºC)	-1° to 3°F (-18° to -16°C)		
Refrigerator Temperature		o 39°F o 4°C)	34° to 39°F (1° to 4°C)		
Low Side Pressure		6 psig 41 kPa)	-2 to 6 psig (-14 to 41 kPa)		
High Side Pressure (last 1/3 cycle)	85 to 105 psig (586 to 724 kPa)		120 to 135 psig (827 to 931 kPa)		
Wattage (last 1/3 cycle)	30 t	io 50	50 to 70		
Amps (running)	.4 to .8		.7 to .9		
Base Voltage	115 vac (127 vac max)				
DEFROST SPECIFICATIONS					
Cabinet Size:	Therma	l Cutout	Th		Defrost Thermistor Termination
27' & 28' SD, 22' CD	Cut-in	Cut-out	Watts	Ohms	Cut-out
	110°F (43.3°C)	135°F (57.2°C)	500	26.5	39°F (4°C)
Electronic Timer - (ADC) Defrost 24 minutes every 6-96 hours of compressor run time.					
CONDENSER FAN MOTOR					
Watts	RPM		Amps		
3.1	1100 CW Opposite Shaft		0.03 Running		
FREEZER ICE MAKER SPECIFICATIONS					
Electrical	115 vac (127 vac max)				
Thermostat	Opens at 48°F ( 9°C), Closes at 15° F ( -9°C)				
		. ,			



# **CAUTION**

All electrical parts and wiring must be shielded from torch flame. DO NOT allow torch to touch insulation; it will char at 200°F and flash ignite (burn) at 500°F. Excessive heat will distort the plastic liner.

# FREEZER ICE MAKER INFORMATION

### (Where Applicable)

Test Cycling: Remove cover by inserting screwdriver in notch at bottom and prying cover from housing. Use screwdriver to rotate motor gear counterclockwise until holding switch circuit is completed. All components of ice maker should function to complete the cycle.

Water Fill Volume: The water fill adjustment screw will change the fill time. One full turn is equal to 20cc (.68 oz.). The correct fill is 102 to 130cc (3.4 to 4.3 oz.). When a water valve is replaced, the fill volume must be checked.

# **SERVICE DATA SHEET**

## A01544602

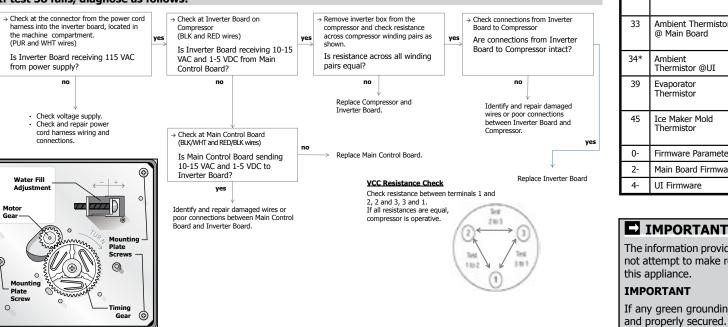
# **ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a**

#### IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

	ERF	ROR CODES		SPECIAL MODES			
Dis	play	Takananakatian	Mada	Display		Activate/Deactivate	
FZ	FF	Interpretation	nterpretation Mode FZ FF		FF	(press for up to 10 sec. simultaneously)	
	OP	Open FF Thermistor	Manual Defrost	d	F	+ and - / same to deactivate	
OP		Open FZ Thermistor	Display / Showroom 77 77		Λ and - / Power-on-Reset (POR)		
	SH	Shorted FF Thermistor	Sabbath	Sb Sb		V and - / same to deactivate	
SH		Shorted FZ Thermistor	System Diagnostic	No FF or FZ display, $\Lambda$ and V/ + to deactivate all UI LEDs on.		$\Lambda$ and V/ + to deactivate	
SY	CF	UI to Main Control Board communication failure; on start up	FFIM Diagnostic	Numerical display of first test A and + together to activate / press and hold + to deactivate			
SY	CE	UI to Main Control Board communication error; after a period in operation	<ul> <li>Notes:</li> <li>Always check for pin back-outs, pinched or damaged wires before replacing components.</li> <li>Determine whether failure is caused by the component, main control board or wiring.</li> <li>Contact TID before replacing main control board.</li> </ul>				
SY	EF	Evaporator Fan Failure	Refer to Service Manual for additional information.				

	FRESH FOOD ICE MAKER DIAGNOSTIC MODE			
Activate: Press A and + temperature pads for up to 10 sec. simultaneously. Press + or - to move forward or backward through tests.				
Deact	ivate:	Press + for up to 10 NOTE: Silence alarm		nostic Mode will automatically deactivate after 5 min. of inactivity.
		Test	To activate test	Passing Result
52C Ice Maker Thermistor		Activates automatically	FZ display shows temperature sensed by Ice Maker Thermistor. "OP" if open; "SH" if short	
55C Water Valve		Press Set	Remove ice tray to collect water into a measuring container to measure water fill. If collecting water into ice tray, first perform test 63C to empty ice tray.	
57C Evaporator Fan (FFIM)		Press Set	"On" on FZ display when fan activated, "OFF" when deactivated.	
Ice Level Sensor 58C		Activates automatically	Remove ice bucket. Allow bail arm to drop freely. Pass if no alarm when tray returns to "home" position. Hold bail arm up. Pass if alarm sounds when tray returns to "home" position. This test runs continuously until another test is selected.	
63C Twist Tray		Press Set	Remove ice bucket. FZ display shows "1" and "GOOD".	

#### Variable Capacity Compressor (VCC) Diagnostics (select models) If test 38 fails, diagnose as follows:



# Activate:

# Deactivate:

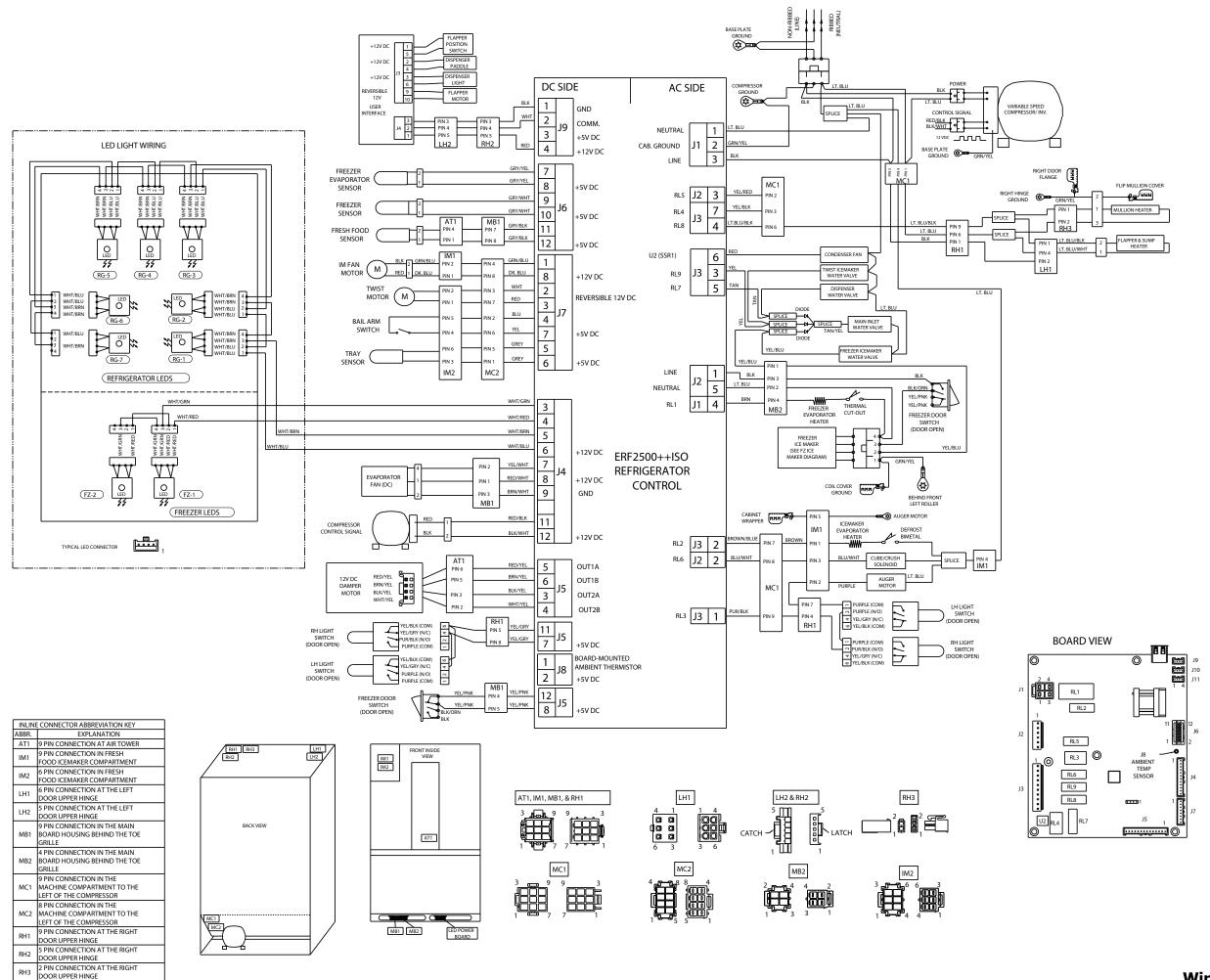
	lest
	First Screen
	Second Screen
	Third Screen
28	Dispenser Paddle
46	Humidity Sensor
47	Dispenser Pocket Heater
2	Freezer Defrost Heater
3*	FF Light (Incandescent Models
8	Water Valve (Dispenser)
9*	FZ Light (Incandescent Models
10	Auger Motor
11	Cube/Crush Solenoid
12	VCC Condenser Fan
43	Anticondensation Heater
38*	VCC Compressor
13*	FF Light (LED Models
15	Evaporator Fan
20*	FZ Light (LED Models
22	Damper
23	FF Door
24	FZ Door
26	Ice Maker Defrost Heater
29	FF Thermistor
30	FZ Thermistor
33	Ambient Thermistor @ Main Board
34*	Ambient Thermistor @UI
39	Evaporator Thermistor
45	Ice Maker Mold Thermistor
0-	Firmware Parameter
2-	Main Board Firmwar
4-	UI Firmware

Activate:         Press A and Y for up to Que. Simultaneously.           Press + And Y for up to Que. Simultaneously.           Press + In advance through tests.           Press + Press + To a Chivate test:         Press + To a Chivate test:           Press + P	SYSTEM DIAGNOSTIC MODE					
Press + to advance through tests.           Press + to advance through tests.           Note: Silence alarm.           Note: Silence alarm.           Press diglayed in digrospic mode but not described below are for internal purposes only: advance through.           View UI displayed in digrospic mode but not described below are for internal purposes only: advance through.           Tests displayed in digrospic mode but not described below are for internal purposes only: advance through.           Issue for operating sound; test test.         Pessing results           Test displayed in digrospic mode but not described below are for internal purposes only: advance through.           Issue for operating sound; test test advance through tests.         Pessing results           Test discum         Test discum.         Pessing results           Itsue for operating sound; test test advance						
Note: Silence alarm.           Note: Silence alarm.           Tests marked in dagmostic mode but not decribed below are for internal purposes: Mode.           Tests displayed in dagmostic mode but not decribed below are for internal purposes only: advance through.           View UI displayed for only "off" (27.0°" Str", U.O." Persion (27.0°" Str", U.O." Str", U.O." Str", U.O." Str", U.O." Str", U.O. Note (27.0°" Str", U.O." Str", U.O. Note (27.0°" Str", U.O." Str", U.O. Note (27.0°" Str", U.O. Note (27	Press + to advance through tests.					
	Deact	Diagnostic Mode will automatically deactivate after 5 min. of inactivity.				
-         First Screen          All LED lights on UI illuminated.            Trick Screen          All segments on UI temperature displays illuminated.            Trick Screen          Bank UI display, no lights illuminated.           46         Humidity Sensor         Activates automatically         "O" on UI when depressed; "Off" when released.           47         Dispenser         Packet Heater         Press est         ACtivates registern: "In"; test not available.           47         Dispenser         Press set         Press set         Press set         Press set           47         Press registern:         Press set         Press set         Press set         Press set           48         Water Valve         Press set         Press set         Press set         Press set           59         F2 Light (Trandescent Models)         Press set         FF doors must be closed.         Beprepared to collect water at dispenser.           94         F2 Light (Trandescent Models)         Press set         FF doors must be closed.         Betaber system: "on"; stops when "off".           10         Auger Motor         Press set         FF door must be closed.         Betaber system: Non"; stops when "off".           11         Cube(Crissh         Press set<	<ul> <li>Tests displayed in diagnostic mode but not described b</li> <li>View UI display for "on," "off," "CL," "OP," "SH," "LO," "H</li> </ul>			elow are for internal purposes only; advance through. II" or numerical results of tests.		
-         Second Screen          All segments on UI temperature displays illuminated.           -         Third Screen          Blank UI display, no lights illuminated.           28         Dispenser Padde         Press disp, paddle         'on' on UI when depressed; 'off' when released.           46         Humidity Sensor         Activates automatically         'OP' if open, 'SH' if short.         Chaster System: Decipary failed to on.           70         Dispenser         Press set         Activates automatically         'OP' if open, 'SH' if short.           70         Dispenser         Press set         Activates automatically         'OP' if open, 'SH' if short.           71         Dispenser         Press set         Press set         Press rest short and then 'on', of when 'off'.           72         Frequer Defrost         Press set         FF doors must be cload.         'Noter value'           73         Ff Light         Press set         FF doors must be cload.         'Noter value'           74         Dispenser)         Press set         FF door must be cload.         'Noter value'           74         Auger Motor         Press set         FF door must be cload.         'Note value'           75         Coperased value in 'on', off when 'off'.         'Note value'' value'''''''''''''''''''''''		Test	To activate test:	Passing result		
Initid Screen		First Screen	All LED lights on UI illuminated.			
28         Dispenser Paddle         Press disp. paddle         "on" on UI when depressed; "off" when released.           46         Humidity Sensor         Activates automatically         "OP" if open, "SH" if short.           47         Dispenser Pocket Heater         Press set         Activates automatically         "OP" if open, "SH" if short.           47         Dispenser Pocket Heater         Press set         Activates getter: "		Second Screen		All segments on UI temperature displays illuminated.		
46       Hunidity Sensor       Activates automatically       "OP" if ppen, "Set" if abut. AC Heater System: "Delogies %RH. DC Heater System: "The "- heater should be on. "UC" - heater should be off. %RH is displayed when hunidity is between "Lo" and "HI" values; heater could be on or off. %RH is displayed when hunidity is between "Lo" and "HI" values; heater could be on or off.         47       Dispenser Press et       Press set       AC Heater System: "Heat on when "on", off when "off".         3*       FF Light (Incardescent Models)       Press set       FF edors must be closed. Be prepared to collect water at dispenser. Water dispenses when "on"; off when "off".         9*       Z2 Light (Incardescent Models)       Press set       FF doors must be closed. Be prepared to collect water at dispenser. Water dispenses when "on"; off when "off".         10       Auger Motor       Press set       FF door must be closed. Motor nunning when "on"; stopped when "off".         11       Solenoid       Press set       FF door must be closed. 		Third Screen		Blank UI display, no lights illuminated.		
AC Heater System: Displays %RH. DC Heater System: The neater should be on. "Lo" - heater should be off.           47         Dispenser Pocket Heater         Press set         Press set           47         Dispenser Press set         Press set         Press set           47         Owder Valve (Dispenser)         Press set         Press set           48         Water Valve (Dispenser)         Press set         Press set           49*         FZ Light (Trandescent Models)         Press set         FF doorn must be closed. Be prepared to collect water at dispenser. Water dispenses when "off".           10         Auger Motor         Press set         FF doorn must be closed. Motor running when "off".           11         CubCrush         Press set         Fan running when "off".           12         VCC Condensetation         Press set         Fin running when "off".           13*         FULpit (LED Models)         Press set         Fin running when "off".           14*         Auger Motor         Press set         Fin running when "off".           1	28	Dispenser Paddle	Press disp. paddle	"on" on UI when depressed; "off" when released.		
2         Freezer Defrost heater         Press set         Freezer defrost heater on when "on"; off when "off".           3*         FF Light (Incandescent Models)         Press set         FF lights on when "on"; off when "off".           8         Water Valve (Dispenser)         Press set         FF doors must be closed. Be prepared to collect water at dispenser. Water dispenses when "on"; off when "off".           9*         FZ Light (Incandescent Models)         Press set         FF door must be closed. Motor running when "on"; other at dispenser.           10         Auger Models         Press set         FF door must be closed. Motor running when "on"; other activated state. Solenoid           11         Cube/Crush Solenoid         Press set         Fan running when "on"; stopped when "off".           12         VCC Condenser Fan Press set         Press set         Compressor running when "on"; stopped when "off".           13*         PFL Light (LED Models)         Press set         Stopped when "off".           145         Evaporator Fan Press set         Stopped when "off".           15         Evaporator Fan Press set         Stopped when "off".           15         Evaporator Fan Press set         Stopped when "off".           16         Evaporator Fan Press set         Stopped when "off".           17         EV Lop Models)         Press set         Stopped when	46	Humidity Sensor	Activates automatically	AC Heater System: Displays %RH. DC Heater System: "HI" – heater should be on. "Lo" – heater should be off. %RH is displayed when humidity is between "Lo" and "HI" values;		
Heater         Press           3*         FF Light (fincandescent Models)         Press set         FF lights on when "on"; off when "off"           8         Water Valve (Dispenser)         Press set         FF doors must be closed. Be prepared to collect water at dispenser. Water dispenses when "on"; stops when "off".           9*         FZ light (funcandescent Models)         Press set         FZ door must be closed. Motor running when "on"; motor stopped when "off".           10         Auger Motor         Press set         FF door must be closed. Motor running when "on"; once leave solenoid in activated state. Solenoid activated when "on"; stopped when "off".           11         Cube/Crush Solenoid         Press set         Fan running when "on"; stopped when "off".           12         VCC Condenser Fan Press set         Filp multion heater and dispenser pocket heater on when "on"; stopped when "off".           13*         FF Light (LED Models)         Press set         Stopped when "off".           14*         FL Ught (LED Models)         Press set         Stopped when "off".           15*         Evaporator Fan Press set         Stopped when "off".         Press           21         FD Door         Open/close FF door         "CL" on UI when door closed; "OP" when open.           22         Damper         Press set         "CL" on UI when door closed; "OP" when open.           23 <td>47</td> <td></td> <td>Press set</td> <td>AC Heater System: "" ; test not available. DC Heater System: heater on when "on", off when "off".</td>	47		Press set	AC Heater System: "" ; test not available. DC Heater System: heater on when "on", off when "off".		
(Incandescent Models)         Press set         FF doors must be closed. Be prepared to collect water at dispenser. Water dispenses when "on"; stops when "off".           9*         FZ Light (Incandescent Models)         Press set         FZ lights on when "on", off when "off".           10         Auger Motor         Press set         FF door must be closed. Motor running when "on", motor stopped when "off".           11         Cube/Crush Solenoid         Press set         FF door must be closed. Motor running when "on", stopped when "off".           12         VCC Condenser Fan         Press set         Fan running when "on", stopped when "off".           13         Anticondensation Heater         Press set         Compressor running when "on", stopped when "off".           13*         FF Light (LED Models)         Press set         Stopped when "off".           14         Evaporator Fan         Press set         Stopped when "off".           15         Evaporator Fan         Press set         Stopped when "off".           16         Press set         VCC on U I when door closed; "OP" when open.           16         Demper         Press set         Stopped when "off".           17         EV Door         Open/close FF door         "CL" on UI when door closed; "OP" when open.           16         Ice Maker         Activates automatically         Ich wast	2		Press set	Freezer defrost heater on when "on"; off when "off".		
Be prepared to collect water at dispenser.9*FZ Light (Incandescent Models)Press setFZ lights on when "on", stops when "off".10Auger MotorPress setFF door must be closed. Motor running when "on", motor stopped when "off".11Cube/Crush SolenoidPress setFF door must be closed. Do not leave solenoid in activated state. Solenoid at stated when "on", stopped when "off".12VCC Condenser Fan HeaterPress setFan running when "on", stopped when "off".13Anticondensation HeaterPress setFan running when "on"; stopped when "off".14Cube/Crush SolenoidPress setFF light uning when "on"; stopped when "off".15Evaporator Fan Press setPress setFE lights on when "on"; off when "off".16FF Light (LED Models)Press setFZ lights on when "on", off when "off".17FZ Light (LED Models)Press setFZ lights on when "on", off when "off".18Evaporator Fan Press setPress setFZ lights on when "on", off when "off".19FZ Light (LED Models)Press setFZ lights on when "on", off when "off".10Jamper Press setPress setCU mon U when door closed; "OP" when open.12Damper Den/Close FZ door"CL" on UI when door closed; "OP" when open.13FF DoorOpen/Close FZ door"CL" on UI when door closed; "OP" when open.14FZ DoorOpen/Close FZ door"CL" on UI when measured with ague at FZ thermistor location. "OP" if open; "SH" if short.130FF Th	3*		Press set	FF lights on when "on"; off when "off"		
(Incandescent Models)         Press set         FF door must be closed. Motor running when "on"; motor stopped when "off".           11         Cube/Crush Solenoid         Press set         FF door must be closed. <b>Do not leave solenoid in activated state.</b> Solenoid activated when "on"; deactivated when "off".           12         VCC Condenser Fan         Press set         Fan running when "on"; stopped when "off".           13         Anticondensation Heater         Press set         Fan running when "on"; stopped when "off".           13*         FF Light (LED Models)         Press set         Compressor running when "off".           14         LED Models)         Press set         Stopped when "off".           15*         FJ Light (LED Models)         Press set         Stopped when "off".           16*         Evaporator Fan         Press set         Stopped when "off".           17         FJ Light (LED Models)         Press set         Stopped when "off".           17         Evaporator Fan         Press set         Vith inspection mirror, observe damper open when "Off".           18*         FZ Light (LED Models)         Press set         Vith inspection mirror, observe damper open when "Off".           19*         FZ Light (LED Models)         Press set         Vith inspection mirror, observe damper open when "Off".           20         Ere Maker	8		Press set	Be prepared to collect water at dispenser.		
Motor running when "on"; motor stopped when "off".           11         Cube/Crush Solenoid         Press set         Ff door must be closed. Do not leave solenoid in activated state. Solenoid activated when "on"; deactivated when "off".           12         VCC Condenser Fan         Press set         Fan running when "on"; stopped when "off".           13         Anticondensation Heater         Press set         Fan running when "on"; stopped when "off".           13         Anticondensation Heater         Press set         Compressor running when "on"; stopped when "off".           13         FF Light (LED Models)         Press set         Stopped when "off".           13         FF Light (LED Models)         Press set         FI lights on when "on", off when "off".           20         Damper         Press set         Stopped when "off".         Stopped when "Off".           21         Damper         Press set         VEt lights on when "on", off when "off".         Stopped when "Off".           22         Damper         Press set         VIt inspection mirror, observe damper open when "OP", dosed when "CL".           23         FF Door         Open/close FF door         "CL" on UI when door closed; "OP" when open.           24         FZ Door         Open/close FZ door         "CL" on UI when door closed; "OP" when open.           26         Lee Maker	9*		Press set	FZ lights on when "on", off when "off".		
SolenoidSolenoid activated when "on"; deactivated when "off".12VCC Condenser FanPress setFan running when "on"; stopped when "off".43Anticondensation HeaterPress setFlip mullion heater and dispenser pocket heater on when "on"; off when "off".13*FF Light (LED Models)Press setCompressor running when "on"; stopped when "off".13*FF Light (LED Models)Press setFF lights on when "on"; off when "off".14*Evaporator FanPress setStopped when "off".15Evaporator FanPress setFZ lights on when "on", off when "off".20*FZ Light (LED Models)Press setFZ lights on when "on", off when "off".21DamperPress setVCL" on UI when door closed; "OP" when open.23FF DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.24FZ DorOpen/close FZ door"CL" on UI when door closed; "OP" when open.25Ice Maker Defrost HeaterActivates automaticallyRelay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.29FF ThermistorActivates automaticallyUI shows temperature sensed by FF thermistor location. "OP-" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automaticallyUI shows temperature sensed by FT thermistor location. "OP" if open; "SH" if short.34*Themistor @ Main BoardActivates automaticallyUI shows temperature sense	10	Auger Motor	Press set			
43Anticondensation HeaterPress setFlip mullion heater and dispenser pocket heater on when "on"; off when "off"38*VCC CompressorPress setCompressor running when "on"; stopped when "off".13*FF Light (LED Models)Press setFF lights on when "on"; off when "off".15Evaporator FanPress setStopped when "off". Listen for speed change from "LO" to "HI".20*FZ Light (LED Models)Press setFZ lights on when "on", off when "off".21DamperPress setWith inspection miror, observe damper open when "OP"; dosed when "CL".23FF DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.24FZ DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.26Lee Maker Defrost HeaterActivates automaticallyRelay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.29FF ThermistorActivates automaticallyUI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automaticallyUI shows temperature sensed at unit board; pass if within 10°F of temperature measured with gauge at train board; pass if within 10°F, of temperature measured with gauge at UI location. "OP" if open; "SH" if short.34*Ambient Thermistor mistorActivates automaticallyUI shows temperature sensed at UI; pass if within +20°F/-10	11		Press set			
HeaterInstanceoff when "off"38*VCC CompressorPress setCompressor running when "on"; stopped when "off".13*FF Light (LED Models)Press setFF lights on when "on"; off when "off".15Evaporator FanPress setStopped when "off". Listen for speed change from "LO" to "HI".20*FZ Light (LED Models)Press setFZ lights on when "on", off when "off".21DamperPress setFZ lights on when "on", off when "off".22DamperPress setWith inspection mirror, observe damper open when "OP"; dosed when "CL".23FF DoorOpen/close FF door"CL" on UI when door closed; "OP" when open.24FZ DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.26Lee Maker Defrost HeaterActivates automatically: Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.29FF ThermistorActivates automaticallyUI shows temperature sensed by FT thermistor pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automaticallyUI shows temperature sensed at main board location. "OP", "OP" if open; "SH" if short.34*Ambient Thermistor @UIActivates automaticallyUI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at evaporator thermistor; pass if within 10°F of temperature measured with gauge at UI locatio	12	VCC Condenser Fan	Press set	Fan running when "on"; stopped when "off".		
13*FF Light (LED Models)Press setFF lights on when "on"; off when "off".15Evaporator FanPress setStopped when "off". Listen for speed change from "LO" to "HI".20*FZ Light (LED Models)Press setFZ lights on when "on", off when "off".21DamperPress setWith inspection mirror, observe damper open when "OP"; dosed when "CL".23FF DoorOpen/close FF door"CL" on UI when door closed; "OP" when open.24FZ DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.26Ice Maker Defrost HeaterActivates automatically Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater will not activate.29FF ThermistorActivates automatically UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at FF thermistor location. "OP" if open; "SH" if short.30FZ ThermistorActivates automatically UI shows temperature sensed by FZ thermistor location. "OP" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automatically UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at main board location. "OP" if open; "SH" if short.34*Ambient ThermistorActivates automatically UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at ul location. "OP" if open; "SH" if short.39Evaporator ThermistorActivates automatically UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperatur	43		Press set			
15Evaporator FanPress setStopped when "off". Listen for speed change from "LO" to "HI".20*FZ Light (LED Models)Press setFZ lights on when "on", off when "off".21DamperPress setWith inspection mirror, observe damper open when "OP"; dosed when "CL".22DamperOpen/close FF door"CL" on UI when door closed; "OP" when open.24FZ DoorOpen/close FZ door"CL" on UI when door closed; "OP" when open.26Ice Maker Defrost HeaterActivates automatically Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.29FF ThermistorActivates automatically UI shows temperature sensed by FF thermistor location. "OP." if open; "SH" if short.30FZ ThermistorActivates automatically UI shows temperature sensed by FZ thermistor location. "OP" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automatically UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at TZ thermistor location. "OP" if open; "SH" if short.34*Ambient ThermistorActivates automatically UI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.34*Ambient ThermistorActivates automatically UI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at ICI docation. "OP" if open; "SH" if short.35Ice Maker Mold Thermistor <td>38*</td> <td>VCC Compressor</td> <td>Press set</td> <td>Compressor running when "on"; stopped when "off".</td>	38*	VCC Compressor	Press set	Compressor running when "on"; stopped when "off".		
20*       FZ Light (LED Models)       Press set       FZ lights on when "on", off when "off".         22       Damper       Press set       With inspection mirror, observe damper open when "OP"; dosed when "CL".         23       FF Door       Open/close FF door       "CL" on UI when door closed; "OP" when open.         24       FZ Door       Open/close FZ door       "CL" on UI when door closed; "OP" when open.         26       Ice Maker Defrost Heater       Activates automatically       Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.         29       FF Thermistor       Activates automatically       UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP." if open; "SH" if short.         30       FZ Thermistor       Activates automatically       UI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP" if open; "SH" if short.         33       Ambient Thermistor       Activates automatically       UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.         34*       Ambient Thermistor       Activates automatically       UI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at evaporator thermistor."OP" if open;	13*	FF Light (LED Models)	Press set	FF lights on when "on"; off when "off".		
22       Damper       Press set       With inspection mirror, observe damper open when "OP"; dosed when "Cl".         23       FF Door       Open/close FF door       "CL" on UI when door closed; "OP" when open.         24       FZ Door       Open/close FZ door       "CL" on UI when door closed; "OP" when open.         26       Lee Maker Defrost Heater       Activates automatically       Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.         29       FF Thermistor       Activates automatically       UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at FF thermistor location. "OP." if open; "SH-" if short.         30       FZ Thermistor       Activates automatically       UI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP." if open; "SH-" if short.         33       Ambient Thermistor @ Main Board       Activates automatically       UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.         34*       Ambient Thermistor       Activates automatically       UI shows temperature sensed at UI; pass if within +20°F/-10°F of tem- perature measured with gauge at UI location. "OP" if open; "SH" if short.         39       Evaporator Thermistor       Activates automatically       UI	15	Evaporator Fan	Press set	Stopped when "off". Listen for speed change from "LO" to "HI".		
23       FF Door       Open/close FF door       "CL" on UI when door closed; "OP" when open.         24       FZ Door       Open/close FZ door       "CL" on UI when door closed; "OP" when open.         26       Ice Maker Defrost Heater       Activates automatically       Relay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.         29       FF Thermistor       Activates automatically       UI shows temperature sensed by FF thermistor location. "OP-" if open; "SH-" if short.         30       FZ Thermistor       Activates automatically       UI shows temperature sensed by FZ thermistor location. "OP-" if open; "SH-" if short.         33       Ambient Thermistor @ Main Board       Activates automatically       UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at TZ thermistor location. "OP" if open; "SH" if short.         34*       Ambient Thermistor @UI       Activates automatically       UI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.         39       Evaporator Thermistor       Activates automatically       UI shows temperature sensed at ice maker; pass if within +20°F/-10°F of temperature measured with gauge at ice maker; pass if within 10°F/ of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short.         39       Evaporator Therm	20*	FZ Light (LED Models)	Press set	FZ lights on when "on", off when "off".		
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26Ice Maker Defrost HeaterActivates automaticallyRelay is activated automatically. If "CL" is shown, defrost limit switch is closed and heater should be heating up. If "OP" is shown, defrost limit switch is open and heater will not activate.29FF ThermistorActivates automaticallyUI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at FF thermistor location. "OP." if open; "SH" if short.30FZ ThermistorActivates automaticallyUI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gauge at FZ thermistor location. "OP" if open; "SH" if short.33Ambient Thermistor @ Main BoardActivates automaticallyUI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.34*Ambient Thermistor @UIActivates automaticallyUI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short.39Evaporator ThermistorActivates automaticallyUI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location. 	23	FF Door	Open/close FF door	"CL" on UI when door closed; "OP" when open.		
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@ Main Boardof temperature measured with gauge at main board location. "OP" if open; "SH" if short.34*Ambient Thermistor @UIActivates automaticallyUI shows temperature sensed at UI; pass if within +20°F/-10°F of tem- perature measured with gauge at UI location. "OP" if open; "SH" if short.39Evaporator ThermistorActivates automaticallyUI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short.45Ice Maker Mold ThermistorActivates automaticallyUI shows temperature sensed at ice maker; pass if within +20°F/-10°F of temperature measured with gauge at ice maker mold. "OP" if open; "SH" if short.0-Firmware ParametersPress setDisplays digit sequence; record.2-Main Board FirmwarePress setDisplays digit sequence; record.	30	FZ Thermistor	Activates automatically	temperature measured with gauge at FZ thermistor location.		
34*     Ambient Thermistor @UI     Activates automatically     UI shows temperature sensed at UI; pass if within +20°F/-10°F of tem- perature measured with gauge at UI location. "OP" if open; "SH" if short.       39     Evaporator Thermistor     Activates automatically     UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short.       45     Ice Maker Mold Thermistor     Activates automatically     UI shows temperature sensed at ice maker; pass if within +20°F/-10°F of temperature measured with gauge at ice maker; pass if within +20°F/-10°F of temperature measured with gauge at ice maker mold. "OP" if open; "SH"       0-     Firmware Parameters     Press set     Displays digit sequence; record.       2-     Main Board Firmware     Press set     Displays digit sequence; record.	33		Activates automatically	UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at main board location.		
39       Evaporator Thermistor       Activates automatically       UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short.         45       Ice Maker Mold Thermistor       Activates automatically       UI shows temperature sensed at ice maker; pass if within +20°F/-10°F of temperature measured with gauge at ice maker mold. "OP" if open; "SH"         0-       Firmware Parameters       Press set       Displays digit sequence; record.         2-       Main Board Firmware       Press set       Displays digit sequence; record.	34*		Activates automatically	UI shows temperature sensed at UI; pass if within +20°F/-10°F of tem-		
Thermistor     temperature measured with gauge at ice maker mold. "OP" if open; "SH" if short.       0-     Firmware Parameters     Press set     Displays digit sequence; record.       2-     Main Board Firmware     Press set     Displays digit sequence; record.	39		Activates automatically	UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location.		
2-     Main Board Firmware     Press set     Displays digit sequence; record.	45		Activates automatically	temperature measured with gauge at ice maker mold. "OP" if open; "SH"		
	0-	Firmware Parameters	Press set	Displays digit sequence; record.		
4- UI Firmware Press set Displays digit sequence; record.	2-	Main Board Firmware	Press set	Displays digit sequence; record.		
	4-	UI Firmware	Press set	Displays digit sequence; record.		

### IMPORTANT SAFETY NOTE

The information provided herein is designed to assist qualified repair personnel only. Untrained persons should not attempt to make repairs due to the possibility of electrical shock. Disconnect power cord before servicing

If any green grounding wires are removed during servicing, they must be returned to their original position



POWER CORD