

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	-5° to 2°F (-20° to -17°C)	-1° to 3°F (-18° to -16°C)
Refrigerator Temperature	34° to 39°F (1° to 4°C)	34° to 39°F (1° to 4°C)
Low Side Pressure	-2 to 6 psig (-14 to 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 to 50	50 to 70
Amps (running)	.4 to .8	.7 to .9
Base Voltage	115 vac (127 vac max)	

DEFROST SPECIFICATIONS				
Cabinet Size	Thermostat		Heater	
	Cut-in	Cut-out	Watts	Ohms
26' & 28' SD, 23' CD	25°F (-4°C)	47°F (8°C)	500	26.5

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

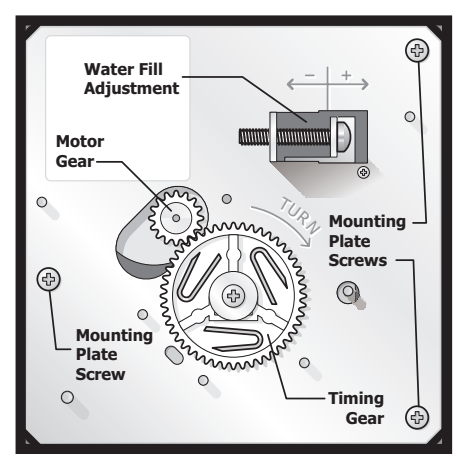
FREEZER ICE MAKER SPECIFICATIONS	
Electrical	115 vac (127 vac max)
Thermostat	Opens at 48°F (9°C), Closes at 15° F (-9°C)
Heater Voltage	115 vac

FREEZER ICE MAKER CONNECTOR PLUG CONNECTIONS		
Wire Number	Wire Color	Connects to:
1	Green / Yellow	Ground
2	Yellow	Water Valve
3	Black	Line
4	Light Blue	Neutral

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.



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.

SERVICE DATA SHEET

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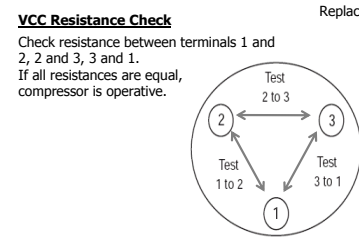
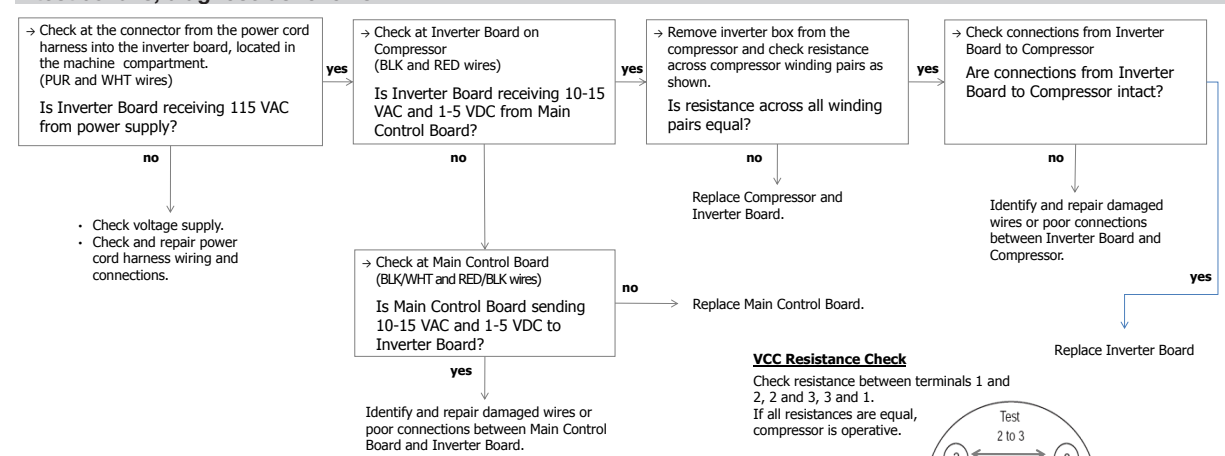
ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

Error Codes			Special Modes		
Display	Interpretation	Mode	Display	Activate/Deactivate (press for up to 10 sec. simultaneously)	
FZ	FF		FZ	FF	
--	OP	Open FF Thermistor	Manual Defrost	d	F
OP	--	Open FZ Thermistor	Display / Showroom	77	77
--	SH	Shorted FF Thermistor	Sabbath	Sb	Sb
SH	--	Shorted FZ Thermistor	System Diagnostic	No FF or FZ display, all UI LEDs on.	
SY	CF	UI Main Control Board communication failure; on start up	FFIM Diagnostic	Numerical display of first test	
SY	CE	UI Main Control Board communication error; after a period in operation	Notes: • Always check for pin back-outs, pinched or damaged wires before replacing components. • Determine whether failure is caused by the component, main control board or wiring. Contact TID before replacing main control board. • Refer to Service Manual for additional information.		
SY	EF	Evaporator Fan Failure			

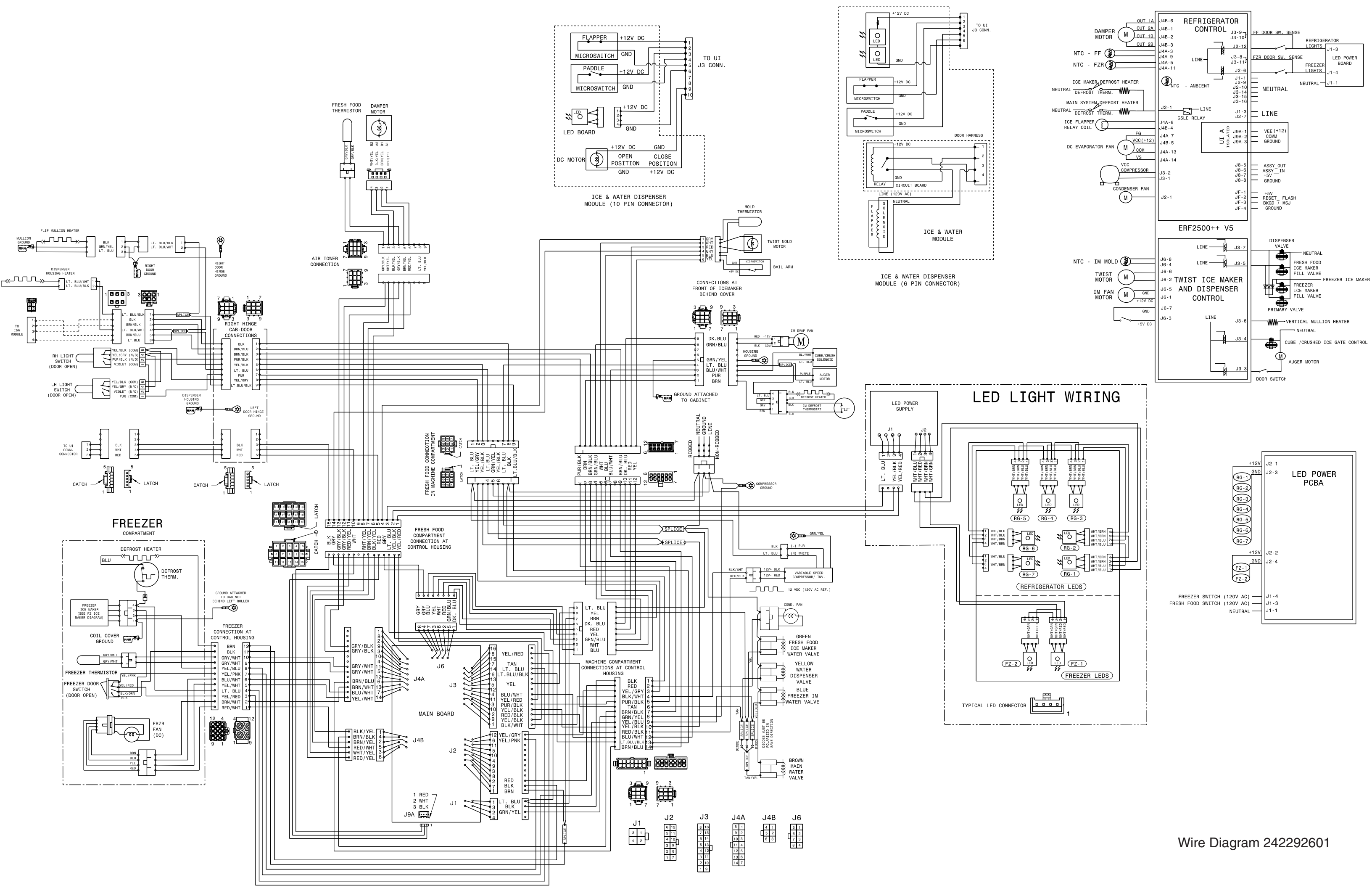
Fresh Food Ice Maker Diagnostic Mode			
Activate:	Press A and V temperature pads for up to 10 sec. simultaneously. Press + or - to move forward or backward through tests.		
Deactivate:	Press + for up to 10 sec. FFIM Diagnostic Mode will automatically deactivate after 5 min. of inactivity. NOTE: Silence alarm.		
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	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)	Set	"On" on FZ display when fan activated, "OFF" when deactivated.
58C	Ice Level Sensor	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	Set	Remove ice bucket. FZ display shows "1" and "GOOD".

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



System Diagnostic Mode		
Activate:	Press A and V for up to 10 sec. simultaneously.	
Deactivate:	Press + for up to 10 sec. Diagnostic Mode will automatically deactivate after 5 min. of inactivity. Note: Silence alarm.	
<ul style="list-style-type: none"> Tests marked with "*" may not be applicable to this unit and will not be displayed in System Diagnostic Mode. Tests displayed in diagnostic mode but not described below are for internal purposes only; advance through. View UI display for "on," "off," "CL," "OP," "SH," "LO," "HI" or numerical results of tests. Listen for operating sounds; feel for heat or air flow as appropriate to determine results of tests. 		
Test	To activate test:	Passing result
--	First Screen	--
--	Second Screen	--
--	Third Screen	--
28	Dispenser Paddle	Press disp. paddle
1*	Standard Compressor	Press set
2	Defrost Heater	Press set
3	FF Light	Press set
8	Water Valve (Dispenser)	Press set
9	FZ Light	Press set
10	Auger Motor	Press set
11	Cube/Crush Solenoid	Press set
41*	Perfect Temp Drawer (PTD)	Press set
12*	VCC Condenser Fan	Press set
38*	VCC Compressor	Press set
15	Evaporator Fan	Press set
36	Ice Chute Door	Depress ice chute door or press set
22	Damper	Press set
23	FF Door	Open/close FF door
24	FZ Door	Open/close FZ door
26	Defrost Limit Switch	Activates automatically
29	FF Thermistor Mid-level	Activates automatically
30	FZ Thermistor	Activates automatically
33	Ambient Thermistor @ Main Board	Activates automatically
35*	FF Thermistor Upper-Level	Activates automatically
34*	Ambient Thermistor @ UI	Activates automatically
46	Humidity Sensor	Activates automatically
47*	Dispenser Pocket Heater	Press set
0-	Firmware Parameters	Press set
2-	Main Board Firmware	Press set
4-	UI Firmware	Press set

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 this appliance.
IMPORTANT
If any green grounding wires are removed during servicing, they must be returned to their original position and properly secured.



Wire Diagram 242292601