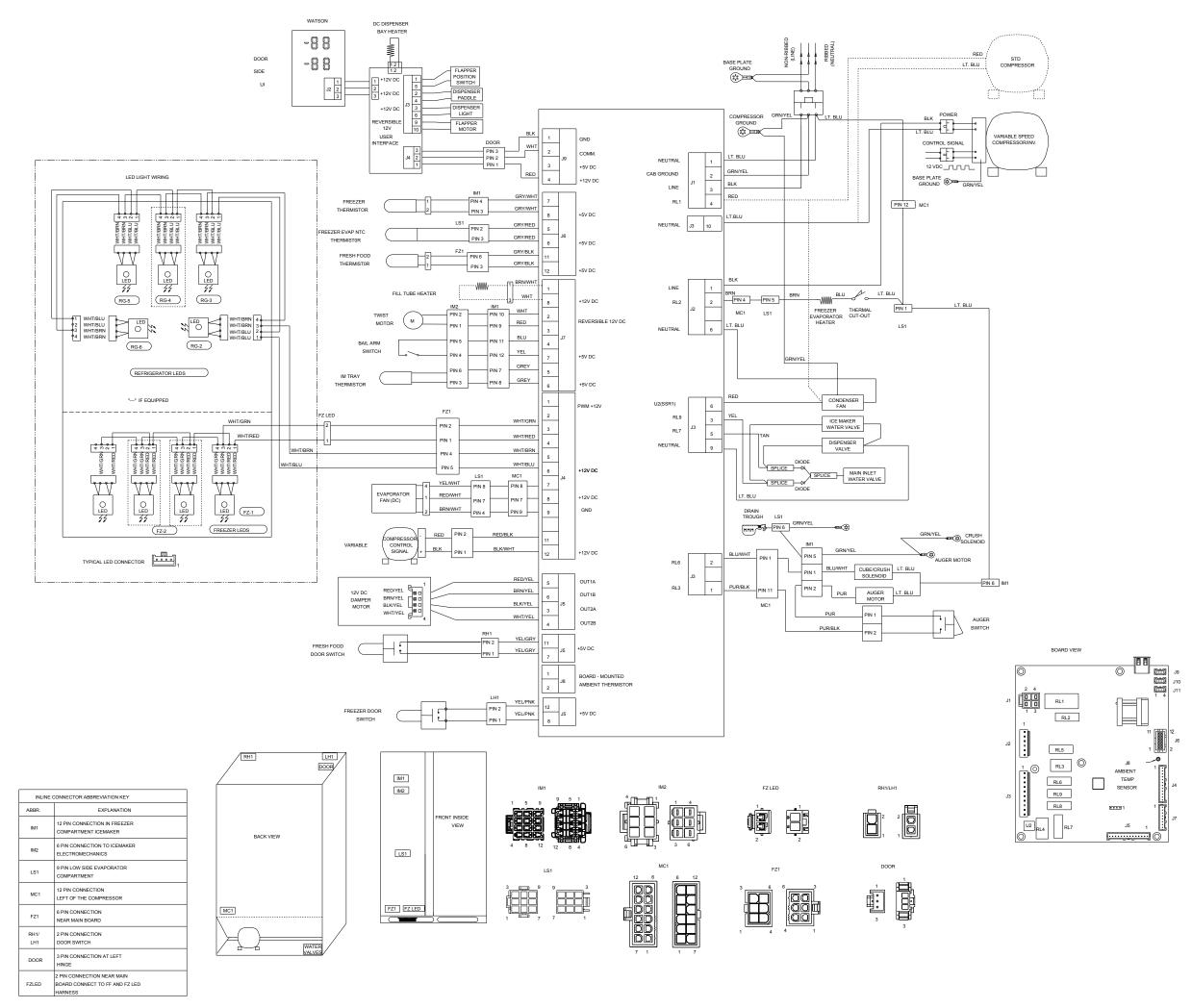
PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT								SERVICE DATA SHEET								DIAGNOSTIC MODE			
0° F FREEZER & 37° F FRESH FOOD (2500 ++ V5)								A07201501							Activate:		Press ^ and V temperature pads for up to 10 sec. simultaneously. Press + to advance through tests.		
Type A with Run/ Start Capacitor Operating Time		65°F (18°C) Ambient		90°F (32°C) Ambient Variable Speed Standard								-	// 201501	Deac	tivate:	Press + for up to 10) sec. Diagnostic Mode will automatically deactivate after 5 min. of		
		Variable Speed	Standard 32 to 40%	Variable Speed 100%		ICE & WATER - AUTOMATIC DEFROST								. Tool	to marked with "*" m	inactivity. Note: Sil			
•	Temperature	74 to 84% -2° to 2° F -19° to -17° C	0° to 4° F -18° to -16° C	-1° to 3° F -18° to -16° C	55 to 65% -1° to 3° F -18° to -16° C	SIDE BY SIDE - R134a							1		 Tests marked with "*" may not be applicable to this unit and will not be displayed in 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. 				
Refrigerator Temperature		34° to 39° F	34° to 39° F	34° to 39° F 34° to 39° F		I	MPOR	TANT: PLE	EASE RET	TURN T	HIS SHEET TO) IT	S ORIGINAL L	OCATION		Test	To activate test:		
		1° to 4° C 1° to 4° C		1° to 4° C 1° to 4° C		EDF		CODEC		SDECT						First Screen		All LED lights on UI illuminated	
Low Side Pressure (cut-in)		43 to 83 kPa	5 to 12 psig 43 to 83 kPa 5 to 12 psig 43 to 83 kPa		N/A 5 to 12 psig 43 to 83 kPa		ERROR CODES Display				Display		Activate/Deactivate			Second Screen		All segments on UI temperature displays illuminated	
Low Side (cut-out	e Pressure)	-2 to 2 psig -14 to 14 kPa	-2 to 2 psig -14 to 14 kPa	-2 to 2 psig -14 to 14 kPa	-2 to 2 psig -14 to 14 kPa	FZ	FF	Interpreta		Mode	FZ FF		press for up to 10 sec	c. simultaneously)		Third Screen Dispenser Paddle	 Press disp. paddle	Blank UI display, no lights illuminated, no shadowing; "-" and "+" blinking on FF display side to show location. "on" on UI when depressed; "off" when released	
High Sid (last ¹ / ₃	e Pressure cycle)	90 to 105 psig 621 to 724 kPa	90 to 115 psig 621 to 793 kPa	120 to 135 psig 827 to 931 kPa	130 to 155 psig 896 to 1069 kPa		OP-	Open FF mid-level thern		Manual Defrost	d F		and -/to activate a	and deactivate		Humidity Sensor	Activates	"OP" if open, "SH" if short	
	e (last ¹ / ₃ cycle)	50 to 60	90 to 130	60 to 70	100 to 140	OP		Open FZ therm		Display/ Showroon	n 77 77	1	• and -/to activate a	and deactivate			automatically	AC Heater System: Displays %RH DC Heater System: "HI" – heater should be on "Lo" – heater should be off	
Amps (r	unning)	0.5 to 0.9	0.7 to 1.1	0.6 to 1.0	0.8 to 1.2					Sabbath	Sb Sb		/ and +/to activate a	and deactivate				%RH is displayed when humidity is between "Lo" and "HI" values;	
Base Voltage		115 vac (127 vac m	ax)				Shorted FF		Diagnostic	ostic No FF or FZ display		• and V / to activate			Dispenser	Press set	heater could be on or off.		
		DEFROST	SPECIFICATIO	ONS		++	mid-level thermistor		all UI LEDs on.		<u> </u>	to deactivate	[*	ч/ ·	Pocket Heater	FIESS SEL	AC Heater System: "" ; test not available DC Heater System: heater on when "on", off when "off"		
Cabinet Size		Thermostat Cut-in Cut-out		Heater Watts Ohms		SH		Shorted FZ thermistor	ntrol		check for pin back-ong components.	outs,	pinched or damage		l r	Standard Com- pressor and Condenser Fan	Press set	Compressor and Condenser Fan running when "on"; stopped when "off"	
23' CD,	26′	25° F (-4° C)	47° F (8° C)	450	30	SY		Board commur failure; on star		Determ	nine whether failure is	s cau	sed by the compone	ent, main control	2	Defrost Heater	Press set	Defrost limit switch must be closed; verify "CL" in test 26.	
Electronic Timer - (ADC) Def								UI Main Control		Refer to Service Manual for a			before réplacing main control board. additional information.					Feel for heat from defrost heater when "on". If "OP" in test 26, heater will not activate.	
Watts		CONDENSER FAN MOT		OR Amps				after a period in	operation						8	Water Valve (Dispenser)	Press set	Be prepared to collect water at dispenser. Water dispenses when "on"; stops when "off"	
3.1		1100 CW Opposite Shaft		0.03 Running		SY	EF	Evaporator fan	failure						10	Auger Motor	Press set	FZ door must be closed. Motor running when "on"; motor stopped when "off"	
		ICE MAKER	DIAGNOSTIC	MODE	Variable Capacity Compressor (VCC) Diagnostics (select models)						tics (select mo	odels)	11	Cube/Crush Solenoid	Press set	Do not leave solenoid in activated state. Solenoid activated when "on": deactivated when "off"			
Activate:		Press FZ+ and FF+ Press FF+ or - to m	temperature pads f love forward or back	for up to 10 sec. sim ward through tests.	If test 38 fails, diagnose as follows:									41*	Perfect Temp Drawer (PTD)	Press set	PTD UI illuminated when "on", off when "off"		
Deactivate:		after 5 min. of inac	tivitv.	stic Mode will autom	the s	ervice cord ter (typicall		e from main control ir nd the inverter (typical		to from the compressor and check resistance		→ Check connections from Inverter to Compressor		12*	VCC Condenser Fan	Press set	Fan running when "on"; stopped when "off"		
		NOTE: Silence alarm.		Passing Result			WHT wires.) Is Inverter receiving 115		yes BLK and RED wires) Is Inverter receiv		ving ves winding pairs as shown.	yes	Are connections	Replace Inverter	38* 13	VCC Compressor FF Light	Press set Press set	Compressor running when "on"; stopped when "off" FF Lights on when "on"; off when "off"	
	Ice Maker			FZ display shows temperature sensed		VAC from po		ower supply? 10-15 VA and 1-5 V Main Con		DC from all winding pairs			Compressor intact?			(LED Models) Evaporator Fan	Press set		
52C	Thermistor			by Ice Maker Thermistor. "OP" if open; "SH" if short			no		no		no		no				Press set	Fan running for minimum of 10 sec. when "LO" or "HI"; stopped when "off". Feedback failure if fan starts but runs less than 10 sec. Listen for speed change from "LO" to "HI".	
55C Water Valve		Press Power On-Off		Remove ice tray to collect water into a measuring container to measure water fill. If collecting water into ice tray, first		• Ch	heck voltage heck and rep	pair	→ Check at Main Cor Board			di	Identify and repair damaged wires or poor connections between Inverter and Compressor.			FZ Light (LED Models)	Press set	FZ Lights on when "on"; off when "off"	
				perform test 63C to empty ice tray.			rvice cord N Id connectio		Is Main Contro	(BLK/WHT and RED/BLK wires)			VCC Resistance Check Check resistance between termi 1 and 2, 2 and 3, 3 and 1.	rminals		Damper	Press set	With inspection mirror, observe damper open when "OP"; dosed when "CL"	
				Remove ice bucket. Allow bail arm to drop freely. Pass if no alarm when tray returns to "home" position.					sending 10-15 VAC Replace Ma and 1-5 VDC to Inverter?		➢ Replace Main Control					Ice Chute Door	Depress ice chute door or press set Open/close FF door	"OP" on UI when manually opened; "CL" when closed. Or, using "set", "OP" on UI when fully opened or "CL" when fully closed by the motor. "CL" on UI when door closed; "OP" when open	
58C Ice Level Sensor		Activates automatically		Hold bail arm up. Pass if alarm sounds when tray returns to "home" position.					yes				If all resistances are equal, compressor is operative.	Test		FZ Door	Open/close FZ door	"CL" on UI when door closed; "OP" when open	
				This test runs cont another test is sele			Identify and damaged wi connections		vires or poor s between				2 Test		Defrost Limit Switch		"CL" on UI when closed; "OP" when open		
63C	Twist Tray	Press Power On-Of	-	Remove ice bucket FZ display shows "				Main Control and Inverter	trol and			1 to 2 3 to 1		FF Thermistor	Activates automatically	UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at mid-level FF thermistor location. "OP-" if open; "SH-" if short			
	IMPORTANT SAFETY NOTE The information provided herein is designed to assist qualified repair personnel only. Untrained persons shound attempt to make repairs due to the possibility of electrical shock. Disconnect power cord before servicing the											d persons should		FZ Thermistor	Activates automatically	UI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gage at FZ thermistor location."OP" if open; "SH" if short			
						appli	not attempt to make repairs due to the possibility of electrical shock. Disconnect power cord before servicing this appliance. IMPORTANT							ore servicing this		Ambient Thermis- tor @ Main Board	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. "OP" if open; "SH" if short	
						If an	iy green	n grounding wires are removed during servicing, they must be returned to their original position ly secured.						original position		Ambient Thermis- tor @ 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	
																Evaporator Therm- istor	Activates automatically	UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short	
							I electrical parts and wiring must be shielded from torch flame. DO NOT allow torch to touch sulation; it will char at 200°F and flash ignite (burn) at 500°F. Excessive heat will distort the astic liner.						e. DO NOT allow t . Excessive heat v	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" if short			
															0-	Firmware Parameters	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						





Wiring Diagram A01975601 Rev. C