

FAILURE DIAGNOSIS TABLE

Error Code Diagnosis

To check for any error in the display, press and hold ULTRA ICE button and FRZ TEMP button for more than 3 seconds. If all LEDs are illuminated, no error is present; if only certain LEDs are illuminated, an error has occurred. For error listing refer to the table below.

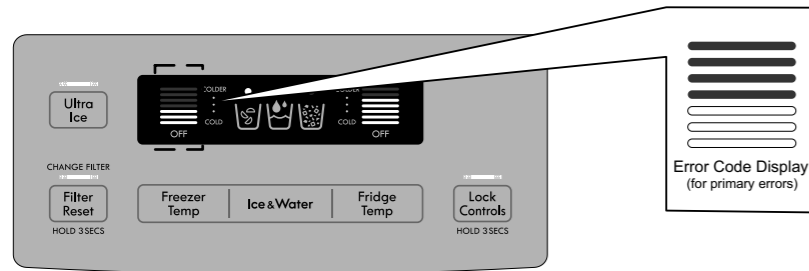


Fig. 1 (Type 1)

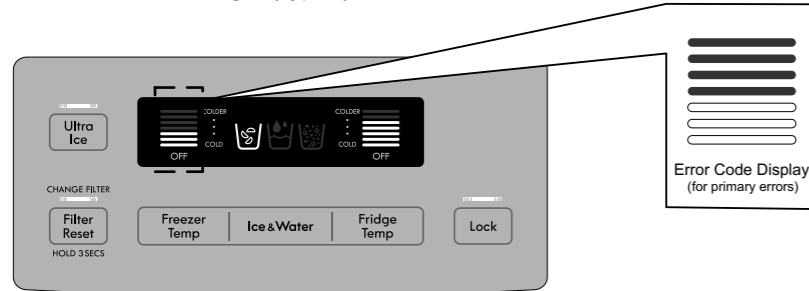


Fig. 2 (Type 2)

NOTE: Display type 1 or type 2 are determined by dispenser selection area. For type 1, only a dot will be illuminated above icon; for type 2, icon will be illuminated completely.

ERROR CODES displayed on Freezer Temp. indicator lights.

No.	ITEM	FAILURE CODE INDICATOR (F-Section)	CONTENTS OF FAILURE	PRODUCT OPERATION STATUS IN FAILURE					
				Compressor	Freezer Fan	Cooling Fan	Defrost Heater	STEP MOTOR	
1	No Error	ALL LED ON	-	●	●	●	●	●	
2	Freezer Sensor		Short circuit wire	15min ON / 15min OFF	Standard RPM	●	●	●	
3	Refrigerator Sensor (1)			●	Standard RPM	●	●	10 min OPEN / 15min CLOSE	
4	Refrigerator Sensor (2)	SEE SECONDARY ERROR INDICATOR LIGHT		●	●	●	●	●	
5	Defrost Sensor			●	Standard RPM	●	No Defrost	●	
6	Room Temperature Sensor	SEE SECONDARY ERROR INDICATOR LIGHT		●	●	●	●	●	
7	Ice-maker Sensor	SEE SECONDARY ERROR INDICATOR LIGHT		●	●	●	●	●	
8	Defrost			●	Standard RPM	●	●	●	
9	Ice-maker UNIT	SEE SECONDARY ERROR INDICATOR LIGHT		Faulty Ice-maker unit; Motor or Hall IC; Lead wire short circuit; Faulty Motor driver.	●	●	●	●	
10	Freezing BLDC Fan Motor			Motor defect, hooked of lead wire to fan, contact of structures with fan, short or open of lead wire (there is no signal of BLDC Motor for more than 115s when fan motor is in operation).	●	Off (Re-check after 30min)	●	●	●
11	Cooling BLDC Fan Motor				●	●	Off (Re-check after 30min)	●	●

● = Normal Status

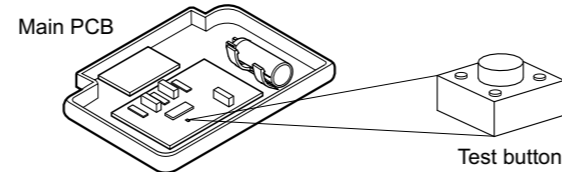
Primary Error: Freezer sensor, Refrigerator sensor (1), Defrost sensor, Freezer and Cooling Fan error.
Secondary Error: Refrigerator sensor (2), Room temperature sensor, Ice-maker sensor, Ice-maker unit error.

Primary errors and secondary errors can be checked in display by pressing and holding ULTRA ICE button and FRZ TEMP button simultaneously for more than 3 seconds (Display check mode); except when any primary error is present for more than 3 hours, in this case, error will be showed automatically in display without having to press any button.

SECONDARY ERROR INDICATOR LIGHT:

REFRIGERATOR SENSOR (2) (LOWER SENSOR IN REFRIGERATOR COMPARTMENT).....	“ULTRA ICE” INDICATOR WILL NOT BE LIT
ICE-MAKER SENSOR.....	“CUBE ICE” INDICATOR WILL NOT BE LIT
ICE-MAKER UNIT.....	“CRUSH ICE” INDICATOR WILL NOT BE LIT
ROOM TEMPERATURE SENSOR.....	“FREEZER TEMPERATURE LOWER” INDICATOR WILL NOT BE LIT.

PCB TEST BUTTON FUNCTION



NOTE: Test mode will not begin if an error code is displayed.

NOTE: During the Test mode, display board buttons will not operate.

• After finishing the Test mode, always unplug and replug in the refrigerator to reset to normal operation.

MODE	OPERATION	CONTENTS	REMARKS
TEST MODE 1	Press once TEST S/W <Forced Freezing Mode>	1. COMP & C Fan ON 2. Freezer fan in high speed 3. Defrost Heater OFF 4. Stepping Motor OPEN 5. Display fully illuminated	Under TEST MODE 1, Compressor is ON, Stepping Motor is OPEN, Cooling Fan is ON (Standard RPM), Freezing Fan is ON (High RPM), all LEDs are illuminated.
TEST MODE 2	From Test 1 press again TEST S/W	1. COMP & C Fan OFF 2. Freezer fan OFF 3. Defrost Heater ON 4. Stepping Motor CLOSE 5. Only F & R notch are illuminated (first four bars from bottom to top)	To enter to this mode, Defrost sensor must register a temperature lower than 41°F (5°C). Under TEST MODE 2, all loads are OFF except Defrost Heater. Defrost Heater will be ON until Defrost sensor reach temperatures of more than 41°F (5°C), then refrigerator become to NORMAL OPERATION.
NORMAL OPERATION	From Test 2 press again TEST S/W	Compressor will turn ON after a 10 min delay.	

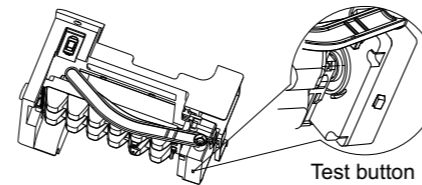
* Demonstration MODE:

The OFF icon lights.



The refrigerator control has been put into the store Demo (Demonstration) Mode. The Demonstration Mode disables the cooling system, only lamps and display work normally. To disable open one door, then press Ultra Ice and Frige Temp buttons at the same time for 5 seconds. You will hear a sound indicating Demo Mode is deactivated.

ICEMAKER



1. ICEMAKER

Test Control

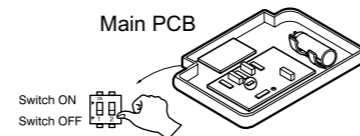
- Press and hold the Test button 3 seconds to activate.
- It operates in the following steps: Initial → Ice ejection → Water supply control steps

2. CUBE SIZE ADJUSTMENT FUNCTION

CAUTION

Unplug the power cord from the wall outlet and wait at least three minutes before removing the main PCB cover, (310 Volts are present in the control panel.)

NOTE: Use chart below to adjust cube size.



Water Supplier Quantity Table

No	SWITCH		Water Supply Time
	S1	S2	
1	OFF	OFF	7s
2	ON	OFF	8s
3	OFF	ON	9s
4	ON	ON	9.5s

- The water supplying time is set at 7 seconds when the refrigerator is delivered.
- The amount of water supplied depends on the setting time and water pressure (city water pressure).
- If the ice cubes are too small, increase the water supplying time.
- If the ice cubes stick together, decrease the water supplying time.

CAUTION

To prevent the ice tray for overflowing adjust the cube size step by step.

TECHNICAL DATA

Part No. MBM62277901

DISCONNECT POWER CORD BEFORE SERVICING IMPORTANT - RECONNECT ALL GROUNDING DEVICES

All parts of this appliance capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

IMPORTANT NOTICE

This information is intended for use by individuals possessing adequate backgrounds of electrical, electronic and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, not can it assume any liability in connection with its use.

ELECTRICAL SPECIFICATIONS

Freezer temperature control (Middle setting).....	-6°F to +8°F
Defrost Control.....	Automatic
Defrost Thermostat.....	41°F (5°C)
Electrical Rating: 115VAC, 60Hz.....	1-7 A
Maximum Current Leakage.....	0.5mA
Maximum Ground Path Resistance.....	0.1 Ohms
Energy Consumption.....	27 cu.ft. 590kWh/yr (Energy Star)

For models: 795.5102*, 795.5101*

NO LOAD PERFORMANCE Control Position: MID/MID

And ambient of.....70°F90°F

Fresh Food, °F.....	33°F to 41°F	33°F to 41°F
Frozen Food, °F.....	-4°F to +4°F	-4°F to +4°F
Percent Running Time.....	25%-35%	45%-60%

REFRIGERATION SYSTEM

Minimum Compressor Capacity Vacuum.....	21 in
Minimum Equalized Pressure	
@ 70°F49PSIG
@ 90°F56PSIG
Refrigerant R134a.....	5.82 oz
Compressor.....	.956BTU/hr

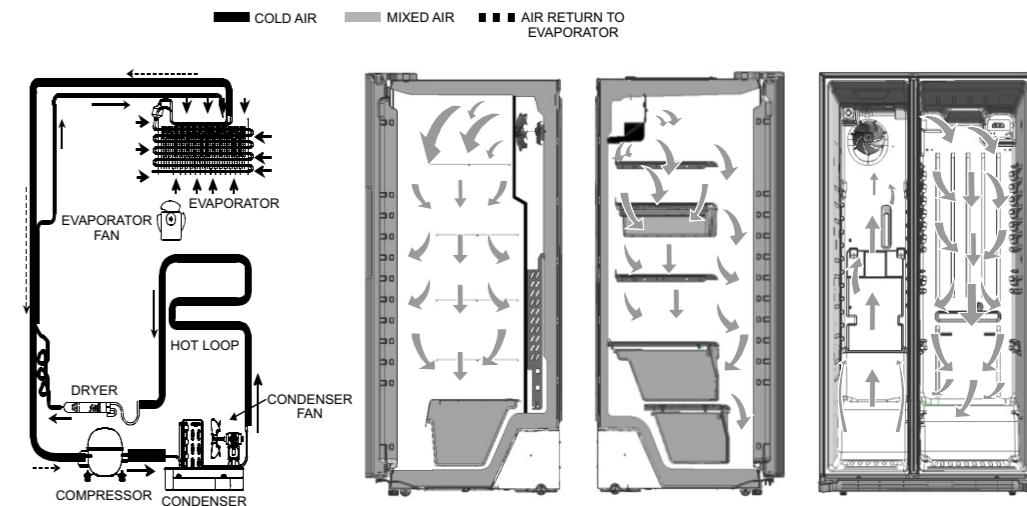
INSTALLATION

For proper air circulation, best cooling and energy consumption results, maintain a minimum distance of 2 inches (5.08cm) from adjacent items and surfaces.

CLEARANCE

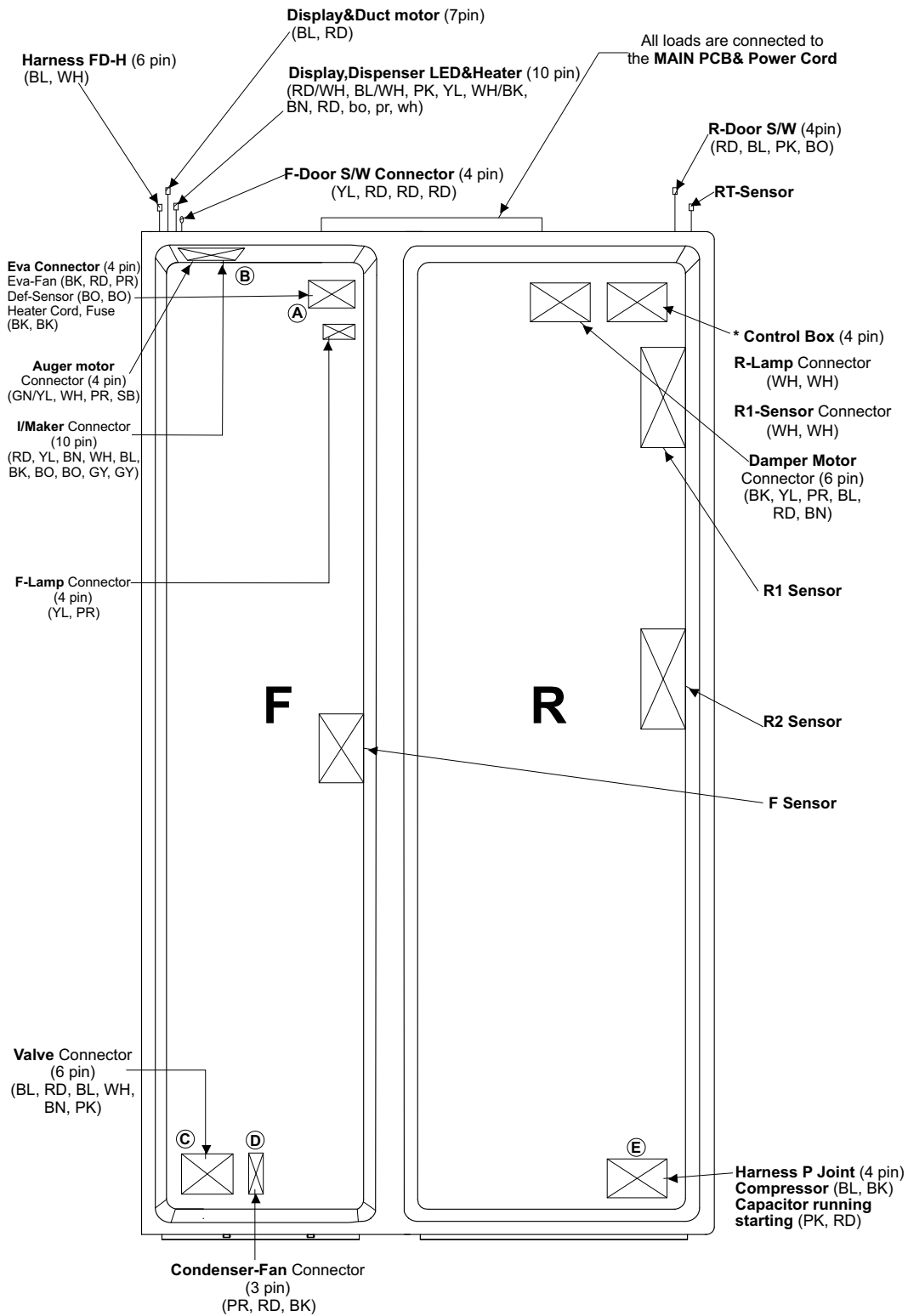
AT TOP.....	2 in
AT SIDES.....	2 in
AT REAR.....	2 in

AIR FLOW



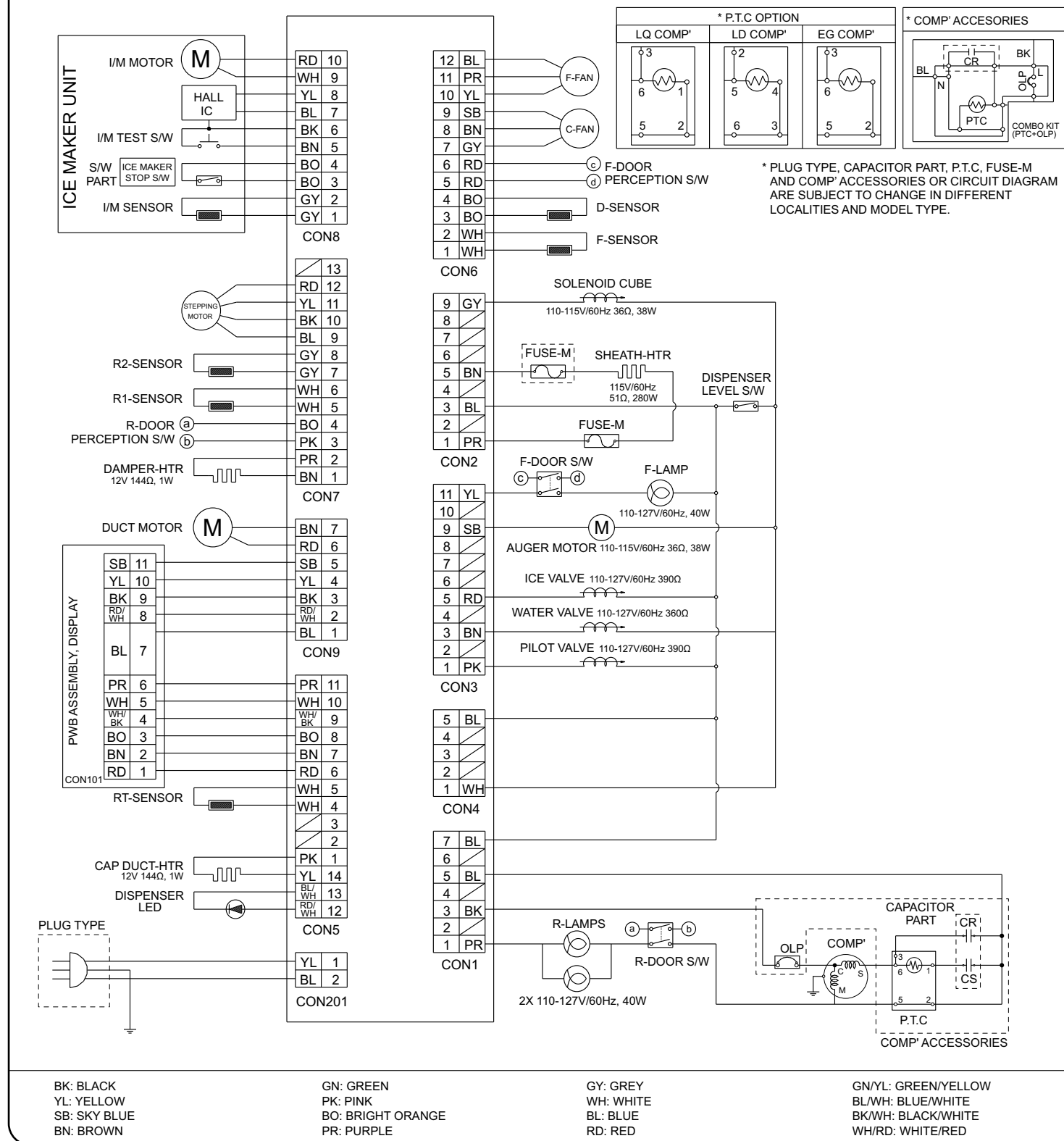
IMPORTANT DO NOT DESTROY
 WIRING DIAGRAMS, SERVICE AND PARTS INFORMATION INCLUDED
 REPOSITION TO ORIGINAL LOCATION

REFRIGERATOR COMPARTMENT



CIRCUIT DIAGRAM

CIRCUIT DIAGRAM



SENSOR TABLE

F & I/M SENSORS		
SENSOR VALUE	TEMPERATURE	VOLTAGE (V)*
2.071 kΩ	86 °F (30 °C)	0.567
2.545 kΩ	77 °F (25 °C)	0.679
3.147 kΩ	68 °F (20 °C)	0.813
3.917 kΩ	59 °F (15 °C)	0.974
4.910 kΩ	50 °F (10 °C)	1.163
6.197 kΩ	41 °F (5 °C)	1.383
7.881 kΩ	32 °F (0 °C)	1.636
10.10 kΩ	23 °F (-5 °C)	1.920
13.05 kΩ	14 °F (-10 °C)	2.231
16.99 kΩ	5 °F (-15 °C)	2.560
22.33 kΩ	-4 °F (-20 °C)	2.898
29.62 kΩ	-13 °F (-25 °C)	3.232
39.66 kΩ	-22 °F (-30 °C)	3.550

R1, R2 & D SENSORS		
SENSOR VALUE	TEMPERATURE	VOLTAGE (V)*
8.896 kΩ	86 °F (30 °C)	1.271
10.74 kΩ	77 °F (25 °C)	1.458
13.03 kΩ	68 °F (20 °C)	1.665
15.91 kΩ	59 °F (15 °C)	1.894
19.53 kΩ	50 °F (10 °C)	2.140
24.13 kΩ	41 °F (5 °C)	2.402
30.00 kΩ	32 °F (0 °C)	2.674
37.55 kΩ	23 °F (-5 °C)	2.950
47.34 kΩ	14 °F (-10 °C)	3.223
60.13 kΩ	5 °F (-15 °C)	3.487
76.96 kΩ	-4 °F (-20 °C)	3.734
99.30 kΩ	-13 °F (-25 °C)	3.959
129.30 kΩ	-22 °F (-30 °C)	4.160

RT SENSOR		
SENSOR VALUE	TEMPERATURE	VOLTAGE (V)*
8.896 kΩ	86 °F (30 °C)	2.354
10.74 kΩ	77 °F (25 °C)	2.589
13.03 kΩ	68 °F (20 °C)	2.829
15.91 kΩ	59 °F (15 °C)	3.070
19.53 kΩ	50 °F (10 °C)	3.307
24.13 kΩ	41 °F (5 °C)	3.535
30.00 kΩ	32 °F (0 °C)	3.750
37.55 kΩ	23 °F (-5 °C)	3.948
47.34 kΩ	14 °F (-10 °C)	4.128
60.13 kΩ	5 °F (-15 °C)	4.287
76.96 kΩ	-4 °F (-20 °C)	4.425
99.30 kΩ	-13 °F (-25 °C)	4.543
129.30 kΩ	-22 °F (-30 °C)	4.641

* Voltage value only can be registered when the refrigerator is energized and all connectors are connected to main PCB.