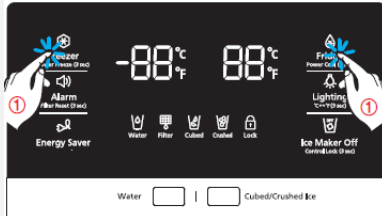


Error Code

Refrigerator

FDR - 3 Room - Type



A-Error Code

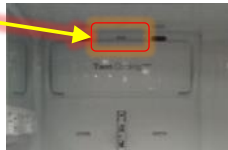
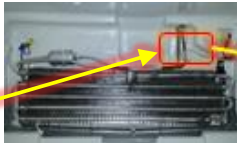
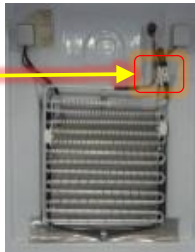
If "Freezer" Key + "Fridge" Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

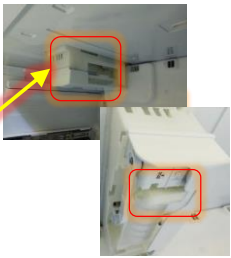
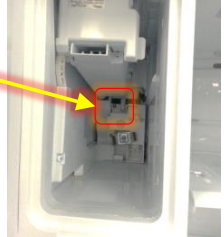


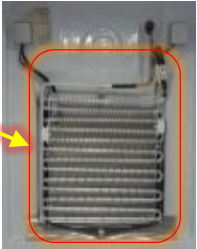
E-Error Code

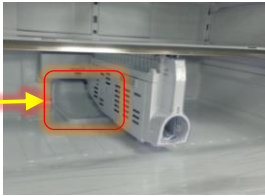
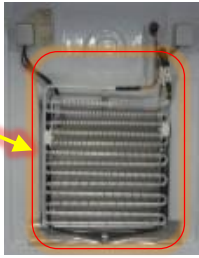
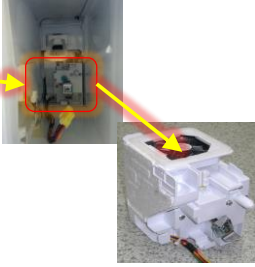
If Energy Saver Key + Lighting Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.



Code	Item	Check Parts	Trouble contents	Image-1	Image-2
1 E	Freezer Room Sensor Error	Freezer Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
2 E	Fridge Room Sensor Error	Fridge Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
4 E	Freezer-Defrost-Sensor Error	Freezer-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
5 E	Fridge-Defrost-Sensor Error	Fridge-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
6 E	Ambient-Sensor Error	Ambient-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		

	Ice Maker(FZ) Sensor Error	ASSY Ice Maker(FZ)	Display error : separation of sensor housing part, contact error, disconnection, short circuit Display error of detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F(-50°C)		
	Humidity-Sensor Error	Humidity-Sensor	Sensor housing removal, poor contact, power cord disconnection, short circuit or voltage defects are detected by the sensors. Defect is displayed if voltage is 0.8V or lower of 4.1V or higher.		
	Ice Maker (Fridge) Sensor Error	ASSY Ice Maker (Fridge)	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
	Ice Room Sensor Error	Ice Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
	Sparkling-Tank Temp Sensor Error	ASSY CASE BASKET-UP	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Abnormal Sensing Temp : higher than 149°F(+65°C) or lower than -58°F(-50°C)		

21 E	Freezer Room FAN Error	Freezer Room FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
22 E	Fridge Room FAN Error	Fridge Room FAN BLDC	Poor contact of feedback signal line, motor line disconnection or motor defect during operation of fan motor indicated as error		
23 E	Condenser-FAN Error	Condenser-FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
24 E	Freezer Defrosting Error	1. Freezer-Defrost-Heater 2. Freezer-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
25 E	Fridge Defrosting Error	1. Fridge-Defrost-Heater 2. Fridge-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		

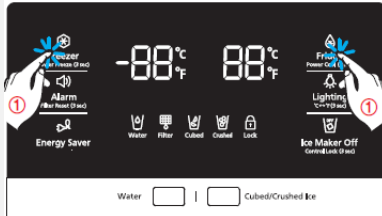
27 E	Flex Room Damper Heater Error	MOTOR DC-DAMPER	Damper heater housing removal, poor contact and cable disconnection detected by the damper heater as open error, and defects are displayed.		
35 E	Earlier restoration of Freeze Room Defrosting Error	1. Cooling Cycle Check 2. Freeze Defroster Sensor	Defect is displayed if heating for F-compartment defrosting is terminated within 5 minutes.		
36 E	Earlier restoration of Fridge Room Defrosting Error	1. Cooling Cycle Check 2. Fridge Defroster Sensor	Defect is displayed if heating for R-compartment defrosting is terminated within 5 minutes.		
39 E	Ice Maker(Fridge) Function Error	1. Ice Maker(Fridge Room) - Heater - Ice Water supply Line	Display error when open error is detected by Heater : separation of Ice Pipe Heater housing part, contact error, disconnection, short circuit.		
40 E	Ice Room-FAN Error	Ice Room Fan-BLDC	Display error when the Ice Maker(FZ) kit operate moving ice over 3 times or it is not leveled.		

41 E	Panel PBA ↔ Main PBA Communication Error	1. Panel PBA 2. Main PBA	Display pc - Er in the panel with alarm : MICOM MAIN ↔ PANEL communication error.		
44 E	Main PBA - Inverter PBA Communication Error	1. Inverter PBA 2. Main PBA	Display 44Er in the panel : Inverter MICOM ↔ Main MICOM communication error.		
61 E	Ice Room Drain Heater Open Error	ASSY CASE-FAN AUGER MOTOR	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Defective Thermistor		
65 E	Ice Room Wall Heater Open Error		Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Defective Thermistor		
71 E	Abnormal high temperature in freezing compartment Blinking	1. Cooling Cycle Check	If temperature in the freezing compartment rises to abnormal level or the door is kept for an extended period of time, the display of the freezing compartment blinks.		

72 E	Abnormal high temperature in cold compartment Blinking	1. Cooling Cycle Check	If temperature in the cold compartment rises to abnormal level or the door is kept for an extended period of time, the display of the cold compartment blinks.		
81 E	Comp starting Failure Error	1. Inverter PBA	Defect is displayed if the compressor startup fails.		
82 E	Comp Inveter PBA IPM Fault Error	1. Inverter PBA	Defect is displayed upon the compressor IPM fault error.		
83 E	Compressor Abnormal current Detection Error	1. Inverter PBA	Defect is displayed if the compressor abnormal current is detected.		
84 E	Compressor motor Locked or Over RPM Error	1. Inverter PBA	Defect is displayed upon the compressor motor constraint.		

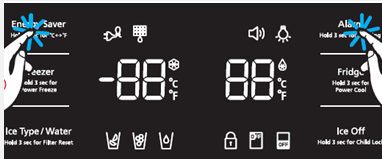
85 E	Compressor under voltage Error	1. Inverter PBA	Defect is displayed upon the compressor low voltage error.		
86 E	Comp over voltage Error	1. Inverter PBA	Defect is displayed upon the compressor overvoltage error.		
93 E	Sparkling Tank Overflow	Flower Sensor	Display error when open error is detected by sparkling tank overflow : separation of Sparkling Tank Overflow Sensor housing part, contact error, disconnection, short circuit.		
94 E	Water Supply to Sparkling Tank Error		Display error when open error is detected by water supply to sparkling tank error : separation of Sparkling Tank Water Level Sensor housing part, contact error, disconnection, short circuit.		

FDR – 2 Room - Type



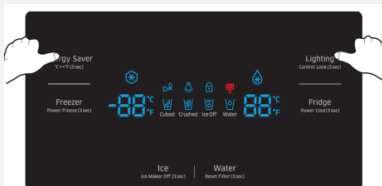
A-Error Code

If "Freezer" Key + "Fridge" Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.



B-Error Code

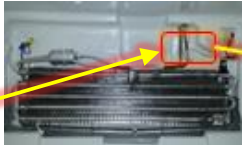
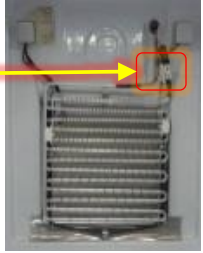
Energy Saver Key + ALAM Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

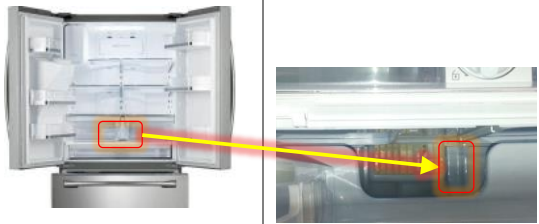
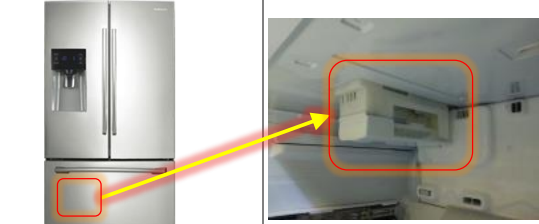
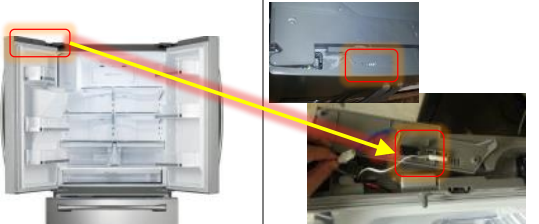
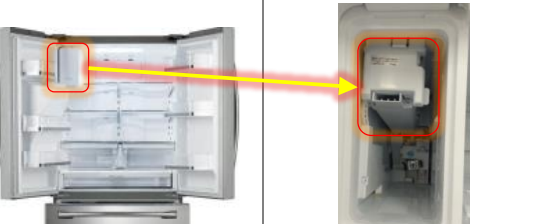
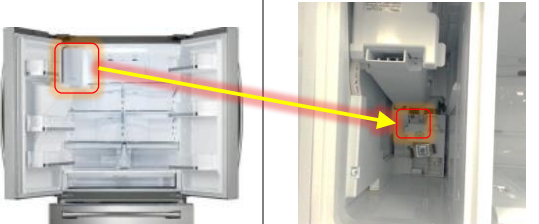


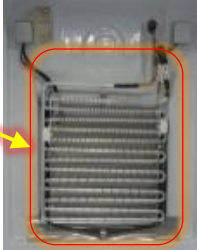
E-Error Code

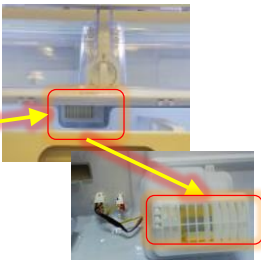
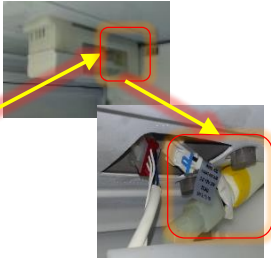
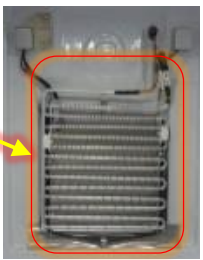
If Energy Saver Key + Lighting Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

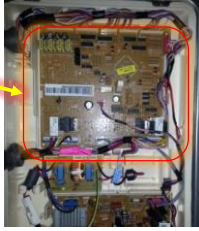
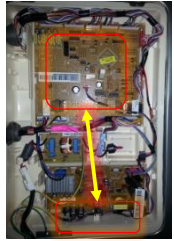


Code	Item	Check Parts	Trouble contents	Image-1	Image-2
1 E	Freezer Room Sensor Error	Freezer Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
2 E	Fridge Room Sensor Error	Fridge Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
4 E	Freezer-Defrost-Sensor Error	Freezer-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
5 E	Fridge-Defrost-Sensor Error	Fridge-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
6 E	Ambient-Sensor Error	Ambient-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		

7 E	Pantry Room Sensor	Pantry Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	
8 E	Ice Maker(FZ) Sensor Error	ASSY Ice Maker(FZ)	Display error : separation of sensor housing part, contact error, disconnection, short circuit Display error of detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F(-50°C)	
13 E	Humidity-Sensor Error	Humidity-Sensor	Sensor housing removal, poor contact, power cord disconnection, short circuit or voltage defects are detected by the sensors. Defect is displayed if voltage is 0.8V or lower of 4.1V or higher.	
14 E	Ice Maker (Fridge) Sensor Error	ASSY Ice Maker (Fridge)	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	
15 E	Ice Room Sensor Error	Ice Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	

21 E	Freezer Room FAN Error	Freezer Room FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
22 E	Fridge Room FAN Error	Fridge Room FAN BLDC	Poor contact of feedback signal line, motor line disconnection or motor defect during operation of fan motor indicated as error		
23 E	Condenser-FAN Error	Condenser-FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
24 E	Freezer Defrosting Error	1. Freezer-Defrost-Heater 2. Freezer-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
25 E	Fridge Defrosting Error	1. Fridge-Defrost-Heater 2. Fridge-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		

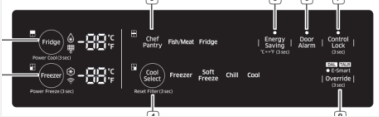
26 E	Ice Maker(FZ) Function Error	Assy Ice Maker(FZ)	When the Freezer Ice Maker error occurs more than 3 times, the error will be displayed.		
27 E	Fridge Room Damper Heater Error	MOTOR DC-DAMPER	Damper heater housing removal, poor contact and cable disconnection detected by the damper heater as open error, and defects are displayed.		
33 E	Freezer-Ice Pipe Heater Error	ASSY-PIPE WATER FRE	The error occurs when there is a wire connector slip-out of the Water Supply Pipe Heater, a contact error or a breakage in the wiring.		
35 E	Earlier restoration of Freeze Room Defrosting Error	1. Cooling Cycle Check 2. Freeze Defroster Sensor	Defect is displayed if heating for F-compartment defrosting is terminated within 5 minutes.		
36 E	Earlier restoration of Fridge Room Defrosting Error	1. Cooling Cycle Check 2. Fridge Defroster Sensor	Defect is displayed if heating for R-compartment defrosting is terminated within 5 minutes.		

39 E	Ice Maker(FF) Function Error	Ice Maker(Fridge Room) Function Error	Display error when open error is detected by Heater : separation of Ice Pipe Heater housing part, contact error, disconnection, short circuit.		
40 E	Ice Room-FAN Error	Ice Room Fan-BLDC	Display error when the Ice Maker(Fridge) kit operate moving ice over 3 times or it is not leveled.		 
41 E	Panel PBA↔ Main PBA Communication Error	1. Panel PBA 2. Main PBA	Display pc - Er in the panel with alarm : MICOM MAIN ↔ PANEL communication error.		
44 E	Main PBA - Inverter PBA Communication Error	1. Inverter PBA 2. Main PBA	Display 44Er in the panel : Inverter MICOM ↔ Main MICOM communication error.		
61 E	Ice Room Drain Heater Open Error	Auger motor	Display error when open error is detected by ice Maker drain duct heater : separation of Ice Duct Heater housing part, contact error, disconnection, short circuit.		 

85 E	Ice Room Wall Heater Open Error	Ice Room Wall Heater	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Defective Thermistor	 
71 E	Abnormal high temperature in freezing compartment Blinking	1. Cooling Cycle Check	If temperature in the freezing compartment rises to abnormal level or the door is kept for an extended period of time, the display of the freezing compartment blinks.	 
72 E	Abnormal high temperature in cold compartment Blinking	1. Cooling Cycle Check	If temperature in the cold compartment rises to abnormal level or the door is kept for an extended period of time, the display of the cold compartment blinks.	 
81 E	Comp starting Failure Error	1. Inverter PBA	Defect is displayed if the compressor startup fails.	 
82 E	Comp Inveter PBA IPM Fault Error	1. Inverter PBA	Defect is displayed upon the compressor IPM fault error.	 

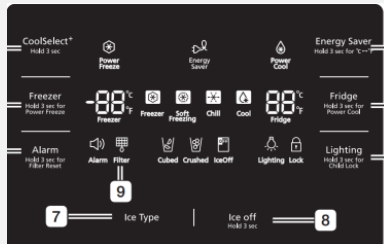
83 E	Compressor Abnormal current Detection Error	1. Inverter PBA	Defect is displayed if the compressor abnormal current is detected.	 
84 E	Compressor motor Locked or Over RPM Error	1. Inverter PBA	Defect is displayed upon the compressor motor constraint.	 
85 E	Compressor under voltage Error	1. Inverter PBA	Defect is displayed upon the compressor low voltage error.	 
86 E	Comp over voltage Error	1. Inverter PBA	Defect is displayed upon the compressor overvoltage error.	 

4 Door - Type



C-Error Code

If **Freezer + Control Lock** are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

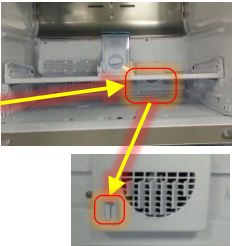
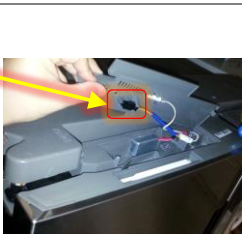


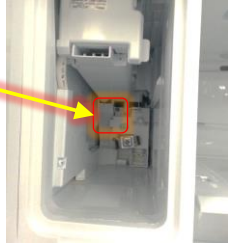
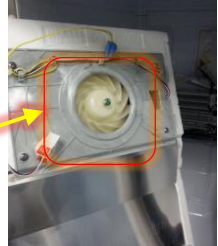
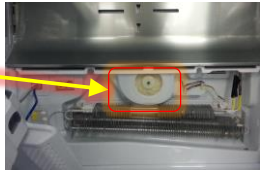
F-Error Code

If **CoolSelect+ Key + Energy Saver** are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

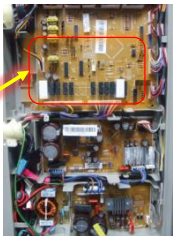
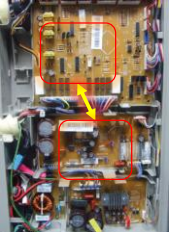


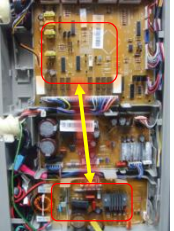
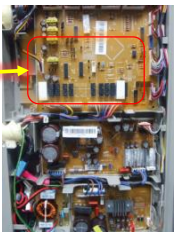
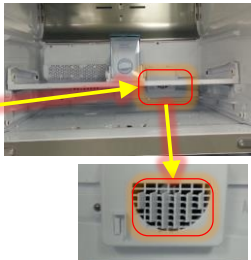
LED	Item	Check Parts	Trouble contents	Image-1	Image-2
1 E	Freezer Room Sensor Error	Freezer Room Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
2 E	Fridge Room Sensor Error	Fridge Room Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
4 E	Freezer-DEF-Sensor Error	Freezer-DEF-Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
5 E	Fridge-DEF-Sensor Error	Fridge-DEF-Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
6 E	Ambient-Sensor Error	Ambient-Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		

7 E	Pantry Room Sensor Error	Pantry Room Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
9 E	Cool Select Room sensor Error	Cool Select Room Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
11 E	Cool Select Room-DEF sensor Error	Cool Select Room DEF-Sensor	The sensor housing separating, incomplete contact, open-circuited wire, short-circuit and abnormal temperature errors are displayed when the temperature measured by the sensor is +50 °C or higher or -50 °C or lower.		
13 E	Humidity-Sensor Error	Humidity-Sensor	This error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs.		
14 E	Ice Maker (Fridge) Sensor Error	ASSY Ice Maker (Fridge)	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Abnormal Sensing Temp : higher than 149°F(+65°C) or lower than -58°F(-50°C)		

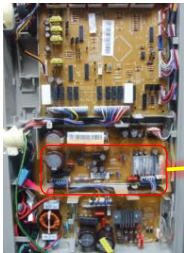
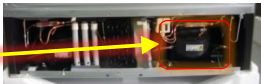
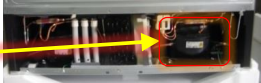
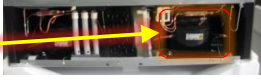
15 E	Ice Room Sensor Error	Ice Room Sensor	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Abnormal Sensing Temp : higher than 149°F(+65°C) or lower than -58°F(-50°C)		
16 E	Fridge Room humidity sensor Error	Fridge Room humidity sensor	This error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs.		
17 E	Sparkling-Tank Temp Sensor Error	ASSY CASE BASKET-UP	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Abnormal Sensing Temp : higher than 149°F(+65°C) or lower than -58°F(-50°C)		
21 E	Freezer Room FAN Error	Freezer Room FAN BLDC	The error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs.		
22 E	Fridge Room FAN Error	Fridge Room FAN BLDC	The error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs.		

23 E	Condenser-FAN Error	Condenser-FAN BLDC	The error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs.		
24 E	Freezer Defrosting Error	1. Freezer-DEF-Heater 2. Freezer-Defrost Sensor 3. Main PBA	The separation of the freezer compartment defrosting heater housing part, contact error, disconnection, short circuit or temperature fuse error. One of these error codes is displayed if the defrosting operation of the freezer or Cool Select Room does not finish even after the continuous heating operation has been performed for 120 minutes.		
29 E	Cool Select Room defrosting Error	1. CF-DEF-Heater 2. Freezer-Defrost Sensor 3. Main PBA	The separation of the freezer compartment defrosting heater housing part, contact error, disconnection, short circuit or temperature fuse error. One of these error codes is displayed if the defrosting operation of the freezer or Cool Select Room does not finish even after the continuous heating operation has been performed for 120 minutes.		
31 E	Cool Select Room Fan Error		One of these error codes is displayed in case of the feedback signal line contact error, the motor wire separation or the motor error when the fan motor starts to run.		
35 E	Earlier restoration of Freezer Room Defrosting Error	Cooling System check	Defect is displayed if heating for Freezer Room defrosting is terminated within 5 minutes.		

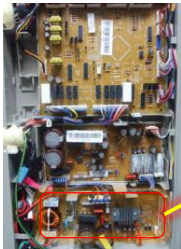
37 E	Earlier restoration of Cool Select Room Defrosting Error	Cooling System check	Defect is displayed if heating for Cool Select Room defrosting is terminated within 5 minutes.		
39 E	Ice Maker (Fridge) Function Error	ASSY Ice Maker (Fridge)	It occurs when there is a defect in removing ice cubes or in making it paralleled [When there is an error while doing self-diagnosis of the Initial Motor Rotation.]		
40 E	Ice Room-FAN Error	ASSY CASE-FAN AUGER MOTOR	When the related Fan Motor operates, it occurs if the contact of the Feed Back Signal Wire is defective, the Motor Wire is slipped out or the Motor is defective.		 
41 E	Panel PBA ↔ Main PBA Communication Error	1. Panel PBA 2. Main PBA	A communications error between the Main and the Panel PCBs		
44 E	Main PBA - Inverter PBA Communication Error	1. Inverter PBA 2. Main PBA	Display 44E in the panel : F Comp. Inverter MICOM ↔ Main MICOM communication error.		

45 E	Main – R Comp. Inverter Communication Error	Inverter PBA	Display 45E in the panel : R Comp. Inverter MICOM ↔ Main MICOM communication error.		
47 E	Main↔Dispenser Panel Error	Panel PBA	A communications error between the Main and the Dispenser Panel PCBs		
61 E	Ice Room Drain Heater Open Error	ASSY CASE-FAN AUGER MOTOR	Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Defective Thermistor		
62 E	Chef Pantry Fan Error	Fan BLDC	The error is displayed while the corresponding fan motor is operating and a feedback signal line contact error, motor wire separation or motor error occurs		
65 E	Ice Room Wall Heater Open Error		Connector Slipped-Out or Open-Contact, Wire Cut or Short-Circuited, Defective Thermistor		

	Door Handle Heater Error	Door Heater	Door Handle Heater Open Error	  
	Abnormal high temperature in freezing compartment Blinking	1. Cooling Cycle Check	When the freezer temperature is abnormally high or the freezer door is open for a certain period of time and the freezer temperature increases, the freezer display blinks.	 
	Abnormal high temperature in fridge compartment Blinking	1. Cooling Cycle Check	When the freezer temperature is abnormally high or the fridge door is open for a certain period of time and the fridge temperature increases, the fridge display blinks.	 
	Abnormal high temperature in cool select room compartment Blinking	1. Cooling Cycle Check	When the freezer temperature is abnormally high or the freezer door is open for a certain period of time and the fridge temperature increases, the cool select display blinks.	 
	F Comp start failure error	Inverter PBA	The error code is displayed when the compressor has failed to start.	 

82 E	F Comp Inveter PBA IPM Fault Error	Inverter PBA	The error code is displayed when the compressor IPM fault error has occurred.		
83 E	F Compressor Abnormal current Detection Error	Inverter PBA	The error code is displayed when the compressor location detection failed.		
84 E	F Compressor motor Locked or Over RPM Error	Inverter PBA	The error code is displayed when the compressor motor is constrained.		
85 E	F Compressor under voltage Error	Inverter PBA	The error code is displayed when the AC Input Voltage is too low.		
86 E	F Comp over voltage Error	Inverter PBA	The error code is displayed when the AC Input Voltage is too high.		

87 E	R Comp starting Failure Error	Inverter PBA	The error code is displayed when the compressor has failed to start.	 
88 E	R Comp Inveter PBA IPM Fault Error	Inverter PBA	The error code is displayed when the compressor IPM fault error has occurred.	 
89 E	R Compressor Abnormal current Detection Error	Inverter PBA	This error code is displayed when an abnormal current is detected in the compressor.	 
90 E	R Compressor motor Locked or Over RPM Error	Inverter PBA	The error code is displayed when the compressor motor is constrained.	 
91 E	R Compressor under voltage Error	Inverter PBA	The error code is displayed when the AC Input Voltage is too low.	 

92 E	R Comp over voltage Error	Inverter PBA	The error code is displayed when the AC Input Voltage is too high.		
93 E	Sparkling Tank Overflow	Flower Sensor	Display error when open error is detected by sparkling tank overflow : separation of Sparkling Tank Overflow Sensor housing part, contact error, disconnection, short circuit.		
94 E	Water Supply to Sparkling Tank Error		Display error when open error is detected by water supply to sparkling tank error : separation of Sparkling Tank Water Level Sensor housing part, contact error, disconnection, short circuit.		

FDR - Type



A-Error Code (Page 30~35)

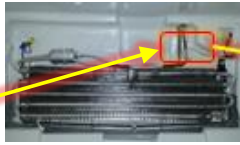
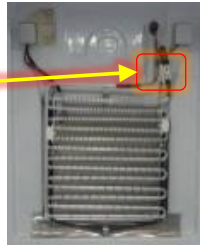
If **Power Freeze** Key + **Power Cool** Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

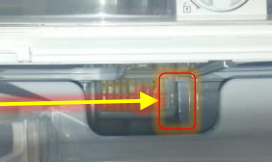


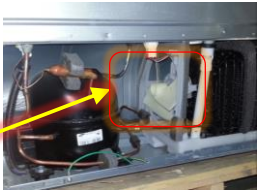
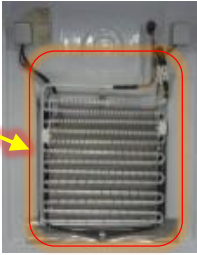
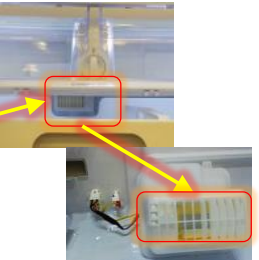
B-Error Code (Page 36~37)

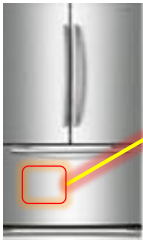
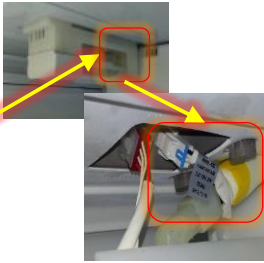
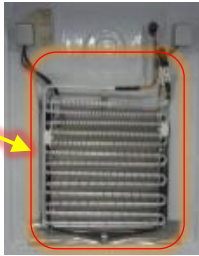
If **Ice Off**+**Aram** or **Energy** Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.



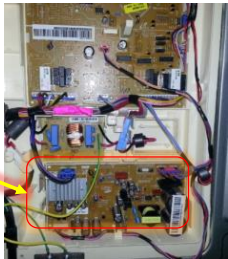
Code	Item	Check Parts	Trouble contents	Image-1	Image-2
1 E	Freezer Room Sensor Error	Freezer Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
2 E	Fridge Room Sensor Error	Fridge Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
4 E	Freezer-Defrost-Sensor Error	Freezer-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
5 E	Fridge-Defrost-Sensor Error	Fridge-Defrost-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
6 E	Ambient-Sensor Error	Ambient-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		

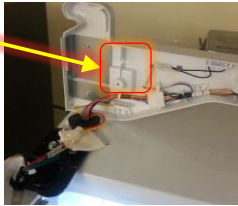
7 E	Pantry Room Sensor	Pantry Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	 
8 E	Ice Maker(FZ) Sensor Error	ASSY Ice Maker(FZ)	Display error : separation of sensor housing part, contact error, disconnection, short circuit Display error of detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F(-50°C)	 
13 E	Humidity-Sensor Error	Humidity-Sensor	Sensor housing removal, poor contact, power cord disconnection, short circuit or voltage defects are detected by the sensors. Defect is displayed if voltage is 0.8V or lower of 4.1V or higher.	 
21 E	Freezer Room FAN Error	Freezer Room FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error	 
22 E	Fridge Room FAN Error	Fridge Room FAN BLDC	Poor contact of feedback signal line, motor line disconnection or motor defect during operation of fan motor indicated as error	 

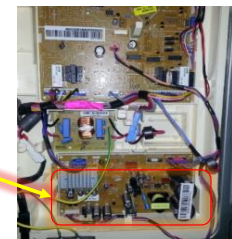
23 E	Condenser-FAN Error	Condenser-FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
24 E	Freezer Defrosting Error	1. Freezer-Defrost-Heater 2. Freezer-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
25 E	Fridge Defrosting Error	1. Fridge-Defrost-Heater 2. Fridge-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
26 E	Ice Maker(FZ) Function Error	Assy Ice Maker(FZ)	When the Freezer Ice Maker error occurs more than 3 times, the error will be displayed.		
27 E	Fridge Room Damper Heater Error	MOTOR DC-DAMPER	Damper heater housing removal, poor contact and cable disconnection detected by the damper heater as open error, and defects are displayed.		

33 E	Freezer-Ice Pipe Heater Error	ASSY-PIPE WATER FRE	The error occurs when there is a wire connector slip-out of the Water Supply Pipe Heater, a contact error or a breakage in the wiring.		
35 E	Earlier restoration of Freeze Room Defrosting Error	1. Cooling Cycle Check 2. Freeze Defroster Sensor	Defect is displayed if heating for F-compartment defrosting is terminated within 5 minutes.		
36 E	Earlier restoration of Fridge Room Defrosting Error	1. Cooling Cycle Check 2. Fridge Defroster Sensor	Defect is displayed if heating for R-compartment defrosting is terminated within 5 minutes.		
41 E	Panel PBA ↔ Main PBA Communication Error	1. Panel PBA 2. Main PBA	Display pc - Er in the panel with alarm : MICOM MAIN ↔ PANEL communication error.		
44 E	Main PBA - Inverter PBA Communication Error	1. Inverter PBA 2. Main PBA	Display 44Er in the panel : Inverter MICOM ↔ Main MICOM communication error.		

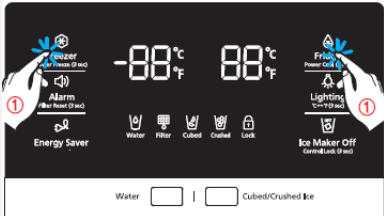
71 E	Abnormal high temperature in freezing compartment Blinking	1. Cooling Cycle Check	If temperature in the freezing compartment rises to abnormal level or the door is kept for an extended period of time, the display of the freezing compartment blinks.		
72 E	Abnormal high temperature in cold compartment Blinking	1. Cooling Cycle Check	If temperature in the cold compartment rises to abnormal level or the door is kept for an extended period of time, the display of the cold compartment blinks.		
81 E	Comp starting Failure Error	1. Inverter PBA	Defect is displayed if the compressor startup fails.		
82 E	Comp Inverter PBA IPM Fault Error	1. Inverter PBA	Defect is displayed upon the compressor IPM fault error.		
83 E	Compressor Abnormal current Detection Error	1. Inverter PBA	Defect is displayed if the compressor abnormal current is detected.		

84 E	Compressor motor Locked or Over RPM Error	1. Inverter PBA	Defect is displayed upon the compressor motor constraint.	 
85 E	Compressor under voltage Error	1. Inverter PBA	Defect is displayed upon the compressor low voltage error.	 
86 E	Comp over voltage Error	1. Inverter PBA	Defect is displayed upon the compressor overvoltage error.	 

Code	Item	Check Parts	Trouble contents	Image-1	Image-2
Left-Display-① 	Ambient-Sensor Error	Ambient-Sensor	Display error : In case of separation of sensor housing parts, contact error, disconnection, short circuit. Display error by temperature : When the sensing temperature is more than 65°C (149°F) or less than -50°C(-58°F).		
Left-Display-② 	Freezer Room Sensor Error	Freezer Room Sensor	Display error : In case of separation of sensor housing parts, contact error, disconnection, short circuit. Display error by temperature : When the sensing temperature is more than 65°C (149°F) or less than -50°C(-58°F).		
Left-Display-③ 	Freezer-DEF-Sensor Error	Freezer-DEF-Sensor	Display error : In case of separation of sensor housing parts, contact error, disconnection, short circuit. Display error by temperature : When the sensing temperature is more than 65°C (149°F) or less than -50°C(-58°F).		
Left-Display-④ 	Freezer Room FAN Error	Freezer Room FAN BLDC	Display error : In case of Feed Back signal Line contact error, separation of motor wire, Motor itself error during operation of applicable fan motor.		
Left-Display-⑤ 	Condenser-FAN Error	Condenser-FAN BLDC	Display error : In case of Feed Back signal Line contact error, separation of motor wire, motor itself error during operation of applicable fan motor.		

Left-Display-⑥ 	Humidity-Sensor Error	Humidity-Sensor	Separation of sensor housing part, contact error, disconnection, short circuit	 
Left-Display-⑦ 	Freezer Defrosting Error	1. Freezer-DEF-Heater 2. Freezer-Defrost Sensor 3. Main PBA	Display error : In case of separation of defrost heater housing, contact error, disconnection, short circuit or temperature fuse error. Display error : If defrost does not finish though the defrost of freeze compartment is heating continuously for more than 70 minutes.	 
Right-Display-① 	Ice Maker(FZ) Sensor Error	Assy Ice Maker	Display error : In case of Separation of sensor housing part, contact error, disconnection, short circuit. Display error by temperature : when the sensing temperature is more than 65°C (149°F) or less than -50°C(-58°F).	 
Right-Display-③ 	Compressor Error	Inverter PBA	Check if there is a short between compressor terminals. Check if there is a short between IPM Pins. Check the Compressor and the Cycle Turn Off the Ref. , after 5minutes, Turn on the Ref.	 
Right-Display-④ 	Fridge Room Sensor Error	Fridge Room Sensor	Display error : In case of separation of sensor housing parts, contact error, disconnection, short circuit. Display error by temperature : When the sensing temperature is more than 65°C (149°F) or less than -50°C(-58°F).	 

SBS - Type



A-Error Code (Page 39~44)

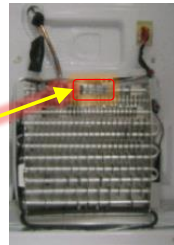
If "Freezer" Key + "Fridge" Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

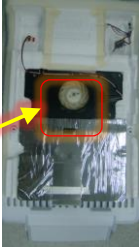


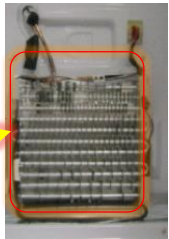
B-Error Code (Page 45~47)

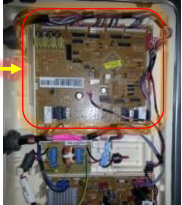
If Energy Saver Key + Lighting Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.



Code	Item	Check Parts	Trouble contents	Image-1	Image-2
1 E	Freezer Room Sensor Error	Freezer Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
2 E	Fridge Room Sensor Error	Fridge Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
4 E	Freezer-DEF-Sensor Error	Freezer-DEF-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
5 E	Fridge-DEF-Sensor Error	Fridge-DEF-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		
6 E	Ambient-Sensor Error	Ambient-Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)		

7 E	Cool Select Room Sensor Error	Flex Room Sensor	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	 
8 E	Ice Maker(FZ) Sensor Error	ASSY Ice Maker(FZ)	Display error : separation of sensor housing part, contact error, disconnection, short circuit Display error of detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F(-50°C)	 
13 E	Humidity-Sensor Error	Humidity-Sensor	Sensor housing removal, poor contact, power cord disconnection, short circuit or voltage defects are detected by the sensors. Defect is displayed if voltage is 0.8V or lower of 4.1V or higher.	 
21 E	Freezer Room FAN Error	Freezer Room FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error	 
22 E	Fridge Room FAN Error	Fridge Room FAN BLDC	Poor contact of feedback signal line, motor line disconnection or motor defect during operation of fan motor indicated as error	 

23 E	Condenser-FAN Error	Condenser-FAN BLDC	Display error during operation of applicable fan motor : Feed back signal line contact error, motor wire separation, motor error		
24 E	Freezer Defrosting Error	1. Freezer-DEF-Heater 2. Freezer-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
25 E	Fridge Defrosting Error	1. Fridge-DEF-Heater 2. Fridge-Defrost Sensor 3. Main PBA	Housing removal, poor contact, power cable disconnection, short circuit, or temperature fuse defect relevant to defrosting heater. Refrigerating in wrong conditions, Freezing compartment defrosting not completed even upon heating continuous for 80 min and 120min.		
26 E	Ice Maker(FZ) Function Error	Assy Ice Maker(FZ)	When the Freezer Ice Maker error occurs more than 3 times, the error will be displayed.		
27 E	Fridge Roome Damper Heater Error	MOTOR DC-DAMPER	Damper heater housing removal, poor contact and cable disconnection detected by the damper heater as open error, and defects are displayed.		

34 E	Fridge Room Water Tank Heater Error	Water Tank Heater Open	Water Tank heater housing removal, poor contact and cable disconnection detected by the damper heater as open error, and defects are displayed.		
41 E	Panel PBA ↔ Main PBA Communication Error	1. Panel PBA 2. Main PBA	Display pc - Er in the panel with alarm : MICOM MAIN ↔ PANEL communication error.		
44 E	Main PBA - Inverter PBA Communication Error	1. Inverter PBA 2. Main PBA	Display 44Er in the panel : Inverter MICOM ↔ Main MICOM communication error.		
71 E	Abnormal high temperature in freezing compartment Blinking	1. Cooling Cycle Check	If temperature in the freezing compartment rises to abnormal level or the door is kept for an extended period of time, the display of the freezing compartment blinks.		
72 E	Abnormal high temperature in cold compartment Blinking	1. Cooling Cycle Check	If temperature in the cold compartment rises to abnormal level or the door is kept for an extended period of time, the display of the cold compartment blinks.		

01 E	Comp starting Failure Error	1. Inverter PBA	Defect is displayed if the compressor startup fails.		
02 E	Comp Inveter PBA IPM Fault Error	1. Inverter PBA	Defect is displayed upon the compressor IPM fault error.		
03 E	Compressor Abnormal current Detection Error	1. Inverter PBA	Defect is displayed if the compressor abnormal current is detected.		
04 E	Compressor motor Locked or Over RPM Error	1. Inverter PBA	Defect is displayed upon the compressor motor constraint.		
05 E	Compressor under voltage Error	1. Inverter PBA	Defect is displayed upon the compressor low voltage error.		

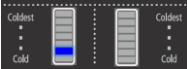
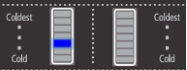
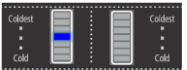
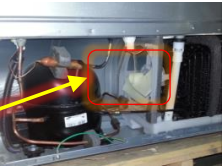
86 E

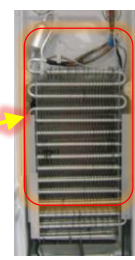
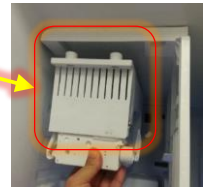
**Comp over voltage
Error**

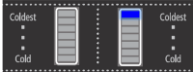
1. Inverter PBA

Defect is displayed upon the compressor
overvoltage error.



Code	Item	Check Parts	Trouble contents	Image-1	Image-2
Left-Display-① 	Ambient-Sensor Error	Ambient-Sensor	Air sensor connector missing ; contact failure, electric wire cut, short-circuit; open air sensor itself failure; and so on		
Left-Display-② 	Freezer Room Sensor Error	Freezer Room Sensor	Freezer sensor connector missing ; contact failed, electric wire cut, shortcircuit ; Freezer Room sensor itself failure		
Left-Display-③ 	Freezer-Defrost-Sensor Error	Freezer-DEF-Sensor	Freezer evaporator defrosting sensor connector missing; contact failed, electric wire cut, shortcircuit ; sensor itself failure ; and so on		
Left-Display-④ 	Freezer Room FAN Error	Freezer Room FAN BLDC	Freezer Fan motor operation failure; feedback signal line contact failure, motor's electric wire missing; and so on.		
Left-Display-⑤ 	Condenser-FAN Error	Condenser-FAN BLDC	Condenser Fan motor operation failure; feedback signal line contact failure, motor's electric wire missing; and so on.		

Left-Display-⑦ 	Freezer Defrosting Error	- Freezer-DEF-Heater - Freezer-Defrost Sensor - Main PBA	In the freezer room, if frost removal mode is finished due to limited time of 70 minutes. Error is displayed	 
Right-Display-① 	Ice Maker (Fridge) Sensor Error	ASSY Ice Maker (Fridge)	Display error : separation of sensor housing part, contact error, disconnection, short circuit. Display error of detecting temperature of sensor : more than 149°F(+65°C) or less than -58°F(-50°C)	 
Right-Display-③ 	Compressor Error	Inverter PBA	When there is a Compressor restriction error	 
Right-Display-④ 	Fridge Room Sensor Error	Fridge Room Sensor	Refrigerator sensor connector missing ; contact failure, electric wire cut, short-circuit ; Refrigeratorsensor itself failure; and so on	 
Right-Display-⑤ 	Fridge Room Damper Heater Error	MOTOR DC-DAMPER	Damper Heater is sensed as open error due to Connector Slipped-Out or Open-Contact, Wire Cut.	 

Right-Display-⑦	 Ice Maker(FZ) Function Error	Assy Ice Maker	Ice-ejector and level failed three times or more		