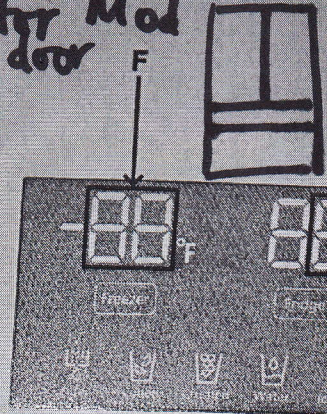


<Self Diagnosis for Using Inverter Compressor Model>

For SS refrigerator Mod French door

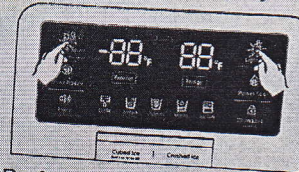
* Self Diagnosis Check List

Display	Trouble item	Trouble contents
F R		
1	FZ-Sensor Error	Sensor system in FZ compartment errors
2	FF-Sensor Error	Sensor system in FF compartment errors
4	FZ-DEF-Sensor Error	Defrost Sensor system in FZ compartment errors
5	FF-DEF-Sensor Error	Defrost Sensor system in FF compartment errors
6	Ambient-Sensor Error	Sensor external system errors
7	Flex room-Sensor Error	Sensor system in Flex room compartment errors
13	HUMIDITY-Sensor Error	Sensor system in Humidity Sensor error
14	I/M-Sensor Error(FF)	Sensor system in Ice maker(FF) errors
15	ICE ROOM-SENSOR ERROR	Sensor system in Ice Room errors
21	FZ-FAN Error	Fan motor system in FZ compartment errors
22	FF-FAN Error	Fan motor system in FF compartment errors
23	C-FAN Error	Fan motor system in machinery room errors
24	FZ-DEF-HEATER Error	Defrost system in FZ compartment errors
25	FF-DEF-HEATER Error	Defrost system in FF compartment errors
27	Flex Zone DAMPER HEATER Error	Damper Heater open/ Bad wire
39	ICE MAKER FUNCTION ERROR(FF)	Ice Maker in FF function errors
40	ICE ROOM-FAN ERROR	Fan motor system in Ice Room errors
41	PANEL → MAINMICOM COMMUNICATION ERROR	Panel ↔ MAIN MICOM Communication errors



- * Self-diagnostic function in the Initial power ON
 - 1-1) Micom operates self-diagnostic function to check the temperature sensor condition within 1 second when the refrigerator turned On initially.
 - 1-2) If bad sensor is detected by the self-diagnostic function, the applicable display LED will blink for 0.5sec.

- * Self-diagnostic function during normal operation
 - 1-1) If Energy Saver Key + Lighting Key are pressed simultaneously for 8 seconds during normal operation, self-diagnostic function will be selected with ding-dong sound.



* Check method for inverter PCB → Check LED on Inverter PCB after Compulsion working.

LED Blinking Frequency	Protecting Functions	Remarks
[Solid bar]	Normal Operation	N/A
[Two short bars]	Starting Failure	1. Short between COMP U,V, and W phase(CN301) 2. Short among IPM Pins(No. #1~33) 3. Drop the IPM operating Voltage under DC 13.5V 4. Other cases, check the COMP, cycle, etc.
[Three short bars]	SPM Fault	1. Open the COMP wire(CN301) 2. Bad condition of R 308(ex. Bad soldering) 3. Other cases, check the COMP, cycle, etc.
[Four short bars]	Abnormal Current Detection	1. Operating the locked rotor COMP with in 5 second. 2. Operating the COMP under 1000RPM more than 5second. 3. Short the shunt resistor between leads. 4. Occur the huge change of input voltage in a moment 5. Other cases, check the COMP, cycle, etc.
[Five short bars]	Motor Locked / Over RPM	1. Drop the input voltage under AC 53V 2. Short resistor R513(DC link resistor)
[Six short bars]	Under Voltage	1. Increase the input voltage over AC 154V 2. Short resistor among R501, R505 and R509 (DC link resistor)
[Seven short bars]	Over Voltage	