

Order No.Ref-520-20190410-SM1

Refrigerator

MODEL:

HRF520BW

HRF520BS

HRF520BHS/HRF520BHC

HRF520FS

HRF520FHS/HRF520FHC



This service information is designed for experienced repair technicians only and is not designed for use by the general public. It dose not contain warnings and cautions to advice non-technical individuals of potential dangers in attempting to service a product. Product powered by electricity should by serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Chapter 1 General Information

1-1. General Guidelines

When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

- 1) Leakage Current Cold Check
- 2) Leakage Current Hot Check
- 3) Prevention of Electro Static Discharge (ESD) to Electrostatic Sensitive

1-2. Insurance test

- 1. Check if there is any leak of current.
- 2. Cut out the power supply before the repair to avoid an electrical shock hazard.
- 3. In the case of a live-line test, insulating gloves should be worn to avoid potential electrical shock.
- 4. Confirm the rated current, voltage and capacity before testing with any kinds of instruments.
- 5. Watch if the upper door is open when you check something at a lower position.
- 6. Take out every part in the cabinet before moving the machine, especially things like panels (e.g. glass shelf).
- 7. Please wear intact cotton gloves when repair any parts of the evaporator, so that scratches by the sharp fins can be avoided.
- 8. If there is a breakdown with the refrigeration system, please surrender the machine to the service center, else the leaked refrigerant may pollute the atmosphere.
- 9. The refrigerator use AC of 220V with a frequency of 50Hz.
- 10. A big fluctuation of voltage (exceed the range 187~242V) may cause a start failure of the refrigerator, a burn-out of the control panel and compressor, or an abnormal sound from the compressor in operation. In this condition an automatic voltage regulator over 60W should be added.
- 11. Take care not to damage the supply line. Don't yank at the line; pull the plug out gently from the receptacle. Don't press the line under the cabinet or step on it. Take care not to roll on or damage the supply line when moves the machine from the wall.
- 12. In the case of leakage of inflammable gases like carbon monoxide, open the door and windows. Don't pull out or insert the plugs of the appliance.
- 13. Don't touch the refrigeration surface of the freezing compartment when the refrigerator is in operation, especially when your hand is wet, else you may be glued to the surface.
- 14. Pull out the plug of power supply during clearance or power outage. Wait at least five minutes to resume the power supply in order to prevent damage to the compressor caused by continuous restart.

ӏ Photo used in this manual

The illustration and photos used in this Manual may not base on the final design of products, which may differ from your products in some way.

1-3. How to read this Service Manual

The meaning of each icon is described in the table below:



A "note" provides information that is not indispensable.

Caution:

Note:



A "caution" is used when there is danger, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.



Æ

A "warning" is used when there is danger of personal injury.



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A "reference" guides to find additional information on a specific topic.

Chapter 2 Product Feature

2-1. Specifications

Picture	2 2 2	<u>ر</u> ۲	
Model	HRF520BW HRF520BS HRF520BHS HRF520BHC	HRF520FS HRF520FHS HRF520FHC	
Basic features			
Energy efficiency class		****	****
Climate class		SN/N/ST/T	SN/N/ST/T
Freezer compartment star rating		*/***	*/***
Gross capacity	I	517L	514L
Total net capacity	I	433L	430L
Net capacity refrigerator compartment	I	320L	317L
Net capacity freezer compartment (total)	I	89L	89L
Chill compartment	I	24L	24L
Energy consumption / year	kWh/ year	358	358
Energy consumption (EN153) per 24 h	kWh/ 24 h	0.98	0.98
Max noise level		39	39
Max storage time by power failure Freezer	h	/	/
Kind of coolant and weight (R134a/R600a)		R600a (68g)	R600a (68g)
Approvals (VDE / TÜV / IMQ / NF / ÖVE / DEMKO etc.)		GS	GS
Key features			
Cooling system: (K = Compressor / A = Absorbtion)		к	к
Number of compressor(s)	n°	1	1
Defrosting Fridge / Freezer (M=manual A=automatic)		A/A	A/A
Control system (E = Electronic / M = Mechanical)	E	E	
NO FROST (Fridge/Freezer)		Y	Y
Ventilated (Fridge only)		Y	Y
Antibacteria system		Y	Y

Basics datas			
Unit dimensions with-out handle (H/W/D)	mm	1725/790/686	1725/790/686
Depth with open door	mm	1432	1432
Net weight	kg	95	95
Voltage / frequency		220-240 V~/ 50Hz	220-240 V~/ 50Hz
Input power / mains fuse (intensity)		220/1.5	220/1.5

2-2. External views





2-3. Major features

1. Fully closed freezing system and drawer storage can avoid food tainting, keep cold and are energy-saving. As warm air can't easily enter into the storage area when opening the door.

2. Cool wind but no frost: adopting fully air cooled refrigeration system, deep cooling and quick freezing.

3. Holiday function: when you are out for holiday, refrigerator will run at the low energy consumption to make sure there's no odor in the refrigerating chamber and guarantee soft freezing and the normal storage of frozen food.

4. LED display: adopting dynamic LED to display the operational situation of refrigerator.

5、 LED light guide plate illumination: adopting the technique of light guide plate illumination, the light is soft, even, bright and no illumination dead angle.

6. Adjusting shelf height: The shelf can be relocated to accommodate food size or height.

2-4. Explanation of The Models





Chapter 3 Disassembly and Installation

3-1 Disassembly of refrigerator/freezer air duct, freezer fan, lamps and

other relative components

3-1-1 Disassembly of refrigerator air duct







① As shown in the figure, unscrew three bolts from the refrigerator air duct with a cross screwdriver;

② Follow the arrow direction in the figure and remove the refrigerator air duct from top to bottom;

③ Pull out the terminal that is connected to variable temperature sensor from the right side of refrigerator air duct. Then, the refrigerator air ducts in the left and right can be removed.

The small terminal is a cold storage sensor, and the big terminal is a variable temperature sensor.



3-1-2 Disassembly of top lamp



3-1-4 Disassembly of freezer air duct



3-1-5 Disassembly of freezer fan





3-1-6 Disassembly of refrigerator air door



3-1-7 Disassembly of compartment components Diagram of components in compressor compartment



Parts list:

No.	Parts designation	Qty.	No.	Parts designation	Qty
1	Assembly of	1	4	Compressor	1
	compressor				
	support plate				
2	Evaporating pan	1	5	Cushion	4
3	Heating tube of	1	6	Compressor clip	4
	evaporating pan				

3-1-8 Disassembly methods of defrosting heater strip





3-2 Door Reversibility

Before connecting the appliance to the power supply you should check, whether the door swing must change from right (as delivered) to left, if this is required by the installation location and the usability.



Before connecting the appliance to the power supply you should check, whether the door swing must change from right (as delivered) to left, if this is required by the installation location and the usability.



- 1. Provide necessary tool.
- 2. Unplug the appliance.
- 3. Remove the fixation of the cover
- 4. Remove the faceplate of the body
- 5. Remove the top plate of the upper door6. Remove the hinge cover.
- 7. Unplug the connection cable.
- 8. Unscrew the upper hinge.
- 9. Lift the loose upper door carefully off the lower hinge.

10. Turn the upper door upside down and change the position of the hinge barrel on the lower side of the door.

- 11. Change the door stop from the current position to opposite side.
- 12. Unscrew the lower hinge of the upper door.



13. Change the positions of the blanking plugs and the screw on the side.

a.Remove lower door.

b. Change the positions of the blanking plug at the top of the lower door.

c.Change the door stop at the bottom of the lower door from the current position to opposite side.d.Unscrew the lower hinge.

e.Take out the new lower hinges from the accessory bag and screw the new lower hinge to the other side of the door opening.

f.Lift the lower door carefully on to the lower hinge so that the pivot fits into the hinge barrel.

14.Take out the new hinges from the accessory bag and screw the new lower hinge of upper door to the other side of the door opening.

15.Lift the door carefully on to the lower hinge so that the pivot fits into the hinge barrel.

16.Fix the upper hinge with the screws.

17.Put the connection cable through the hinge cover(delivered in the accessory bag)and put it over the hinge.

18.Plug in the connection cable and fit it into the opening.

19. Replace faceplate and cover, fix it with the screws and reinsert the fixation (see fig .3).

After the change of the door check that the door seals are located properly on the housing and all screws are tightened well.

Water dispenser

(Only models with water dispenser)

With the water dispenser cool drinking water can be tapped.

The water think should be cleaned before first use (see CARE ANDCLEANING).

Filling the water tank

WARNING!

Use drinking water only.

1.Ensure that the water tank is properly inserted (see EQUIPMENT)

2. Rotate and lift the round lid (A) and fill the water tank

up with fresh drinking water.

3.Fill water only up to the mark (1.8L): as it could overflow

When the door opens and closes.

4. Close the round lid until it clicks into place.





Before refilling dispose residual water and clean the water tank.

When you don't need water for a long time, please empty the water tank and insert the cleaned tank.

The cover(C) on the water tank is additionally used to save energy. If you do not want to get water from the water dispenser for a long period, please still install the cover because of better insulating and saving energy.

3-3 Water dispenser (Only models with water dispenser)

3-3-1 How to use Water dispenser





Getting water from the dispenser

- 1. Place a glass underneath the water outlet.
- 2. Push it gently against the water dispenser lever with your glass,

Make sure the glass is in line with dispenser to prevent the water from splashing out.

Removable water tank

(Only models with water dispenser)

The water tank can be removed and reinstalled for cleaning in the same way as the door racks.

Insert water tank

(Only models with water dispenser)

Place the water tank in the position that water out-let (B) fits into the opening of the door. Make sure that the water tank is locked.

3-3-2 How to clean the Water dispenser



Cleaning the water tank (Only models with water dispenser)

- 1. Take off the water tank out of the appliance.
- 2. Remove the cover(A).
- 3. Unscrew the dispenser cock(B).
- 4. Clean the tank and dispenser cock with warm water and liquid dishwashing detergent, Make sure all soap is rinsed off.
- 5. Mount the dispenser cock, close the cover and replace the tank inside the appliance.

Chapter 4 The Preparation Before Use

4-1 Space requirement

Required space when door is opened:

Appliance width:1185cm;

Appliance depth:1423cm.



4-2 Ventilation cross-section



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Chapter 5 System flow principle

5-1 Refrigerating cycle plan



5-2 Sensor layout plan



Chapter 6 Circuit diagram

6-1. Brief principle diagram



6-2. Main control Chart



Main control Chart does not need to be processed .

6.3 Operating principle, parameters and testing method of sensors

(forced start, forced defrosting)

6-3-1 Refrigerator control overview

- (1) Control of refrigerator compartment: when the temperature of refrigerator sensor is no less than that at the startup point, the refrigerator starts up (the refrigerator damper opens); when it is no greater than that at the refrigerator shutdown point, the refrigerator stops (the refrigerator damper closes).
- (2) Control of freezer compartment: when the temperature of freezer sensor is no less than that at the startup point, the freezer starts up; when it is no greater than that at the freezer shutdown point, the freezer stops.
- (3) Control of my zone temperature compartment: when the temperature of my zone temperature sensor is no less than that at the startup point, the my zone temperature starts up (the my zone temperature damper opens); when it is no greater than that at the my zone temperature shutdown point, my zone temperature stops (the my zone temperature damper closes)
- (4) Quick-freeze control: the fan runs when the refrigerator enters into the quick-freeze function of the freezer compartment. the quick-freeze mode will switch off 56 hours after the freezer compartment has been set at quick-freeze function.
- (5) Quick-cooling control: In the quick-cooling status, PC is controlled according to the stop or work at 3 degree /0 degree.
- (6) Function of my zone temperature compartment: my zone has "Beverage Cooling" "Meat Poultry" "Seafood" three options.

- (7) Open alarm: Refrigerator door opened more than 180 seconds, the alarm buzzer alarm; the 3 time (0.5 seconds), if the door still opened, then the alarm 3 times every 30 seconds (0.5 seconds), until the switch is closed (i.e. door closed).
- (8) Power failure with memory: this refrigerator is designed with power failure with memory. Specific status prior to power failure will be kept when the refrigerator goes into power failure; power failure with memory: defrosting status, refrigerating, variable temperature and freezing temperature gear setting, quick-freeze, quick-cooling, intelligent. Power failure without memory: compressor protection, quick-freeze time, quick-cooling time.
- (9) Control of refrigerator lamp: when the refrigerator door opens, its lamp lights; when it is closed, the lamp is off. The refrigerator lamp automatically lights off when the refrigerator door keeps open for more than 7 minutes.
- (10) Fan/Damper control: when refrigeration is activated in the freezer compartment, the freezer fan and compressor work at the same time. When the refrigerator door opens, the freezer fan and damper stop working immediately. The compressor is under normal control with compartment temperature until the refrigerator door is closed or the fan and damper return to normal control after 7 minutes.
- (11) Initial power-on status: the temperature of refrigerator compartment is set to be 3℃, -18℃ for the freezer compartment and "BeverageCooling" for the my zone temperature compartment when the refrigerator is initially powered on. The refrigerator will not start up if the refrigerator, my zone temperature and freezer temperature are between the starting temperature and the stopping temperature. It starts when the temperature returns to that at the starting point.
- (12) Display control: The display lights off if the refrigerator door is closed and the button is not activated within 30s. The display lights on when any button on the display panel is touched or when the refrigerator door opens. The LED lights off when the opening time is more than 30s.
- (13) Compressor protection: Startup of the compressor is permitted after it is put in shutdown for 7 minutes. It enters into normal control upon completion of the 7-minute delay.

Control principle of defrosting system

*For initial power-on, defrosting begins when the compressor accumulatively works for 8hr.

*The compressor and freezer fan stop and the dampers close during defrosting. When the temperature of defrosting sensor is no less than 12° C, the defrosting heater strip shall be disconnected.

*For entrance into defrosting, the defrosting heater strip exists defrosting after working for 10s if the temperature of defrosting sensor is no less than 12° C.

*Forced defrosting: Open the door, locked, press the "Fridge" button, at the same time, press the "My zone" button 5 times, then press "Lock" button for 1 times. The display board displays "T2", began forced defrost.Defrosting exits when the defrosting sensor temperature reaches 12°C. The power of defrosting is 180W (rated voltage 220V). The deviation shall be within 10W.

(1) Testing method of forced start

(2) The open door, locked, press the "Fridge" button, at the same time, press the "My zone" button for 5 times. T1 is shown in the refrigeration temperature zone. In this mode, the air switch on, fan, compressor run continuously, without defrosting control.

1- List of compressor model, manufacturer, power, energy efficiency ratio (EER), refrigerating capacity, operating current and starting current

Compressor	Manufacturer	Power	EED	Refrigerating	Operating	Starting	model
model	Manufacturer	FOWEI		capacity	current	current	
	Nidec						
	Compressor	230V/40~	1 00	106.6	0.43	2.1A	HRF520
VEIMA9C+	(Beijing)	150Hz	1.90				B*
	Co.,Ltd.						
	Nidec						
VEMD9C+	Compressor	230V/40~	1.04	104	0.96	2.1.4	HRF520
	(Beijing)	150Hz	1.94	104	0.00	2.1A	F*
	Co.,Ltd.						

6-3-2 Control of refrigerator air door

Conduct power-on and power-off control of air door VD (R/S room) (Myzone)					
	S1				
	R	S			
When power					
on	Power on and power off for	or one time			
Protection	No operation for 1 minute afte	r the operation			
R room	R-sensor control switch				
(fridge)	(fridge)				
S room (my	S-sensor control switch				
zone)					
Stop the	Stop the				
operation					
	When the R door is	open			
Special	Special				
operation	operation No operation for 1 hour on S1 or S2 air door, reset for one time.				
When					
pulldown	Take operations according to the condition				

6-3-3 External photo and electric parameter of main electric appliance

1. Damper (cannot be moved forcedly by hand)



This type has one air door only, the large opening relates to refrigeration, and the small one relates to myzone;

Electrical performance

No.	Item	Value	Note
1	Voltage for use	12 ± 1 VD.C.	At terminal voltage
2	Resistance	415 \pm 50 Ω /Phase	At 25°C (77 F)
3	Current input	60 mA or less	At standard voltage and frequency
4	Starting voltage	10 VD.C. or less	At standard frequency
5	Slew rate	400 PPS or more	At standard voltage
6	Motor coil temperature rise	65 K or less	Measured by resistance method
7	Insulation resistance	100 M Ω or more	Between live and dead part at 500VD.C.
8	Dielectric strength	500 VA.C. for 60 s or 600 VA.C. for 1 s	Between live and dead part at cut-off current 0.5 mA

2. Fan



R ating Voltage	12	
Operating Voltage		7.0~13.2
Starting Voltage		7
Speed[min 1]	Average	2300
Speed[min -]	Minimum	2000
Max Air Flow(m ³ /min)	Average	2.12
wax Ali Flow[III /IIIII]		1.75
Max Static Pressure[Pa]	Average	36.3
IVIAN Static Fressure[Fa]	Minimum	25.9
Current[A]	Average	0.24
Currentiz	Minimum	0.32
Input PowerM/	Average	2.88
	Minimum	3.84
Acoustical Noise[dB]		34

6-3-4 Heater strip

1. Freezing and defrosting heater strip (0064001866)

Specification: nominal voltage: 220V, power: 180W R≈269Ω

3. vertical beam heating wire

Specification: 230V, Power: 17W R≈3.11kΩ

Chapter 7 Control and display system

7-1 Control and display panel



7.1.1 The control panel display part description: al: Quick cooling function display icon:

- a2: PC temperature display icon
- bl: Quick frozen function display icon
- b2: FC temperature display icon

c1、c2、c3: my zone temperature display icon
d: lock function icon

7.1.2 Control panel key part description:

A The "Fridge" button: set the temperature of the PC, press the button; press 3S into the cold room fast cooling;

B The "Freezer" button: set the temperature of the FC, press the button; press 3S into the freezer frozen state;

C "My zone" button: set the variable temperature, press the button effectively;

D "Lock and confirmation" button, press 3 seconds to enter the locked state, the same operation exit locked state; when setting the PC ,FC and my zone temperature , touch the button immediately.

7-2 Function adjustment

7-2-1 First, The panel is unlocked. Touch the button D for 3 seconds.



7-2-2 Adjust the fridge temperature

Press the button A to adjust.



7-2-3 Adjust the freezer temperature

Press the button B to adjust.



7-2-4 Adjust the my zone temperature

Press the button C to adjust.



7-2-5 Adjust the super cool function

Press the button A for 3 seconds.



7-2-5 Adjust the super freeze function

Press the button B for 3 seconds.



Chapter 8 Quick check and Self-test model



[1] Fault code

Entering mode: Open the door, locking condition, press the "Fridge" button and press "Freezer" button 5 times to enter the refrigerator fault view mode.

Exit mode: Open the door, locking condition, press the "Fridge" button and press "Freezer" button 5 times to enter the refrigerator fault view mode.

Enter the query mode, PC display area directly display the fault code, FC display area is extinguished, no fault code display 0

Fault code according to the E0>E1>Ed>F6>F2>F4>F3>F5 priority display, each click "Lock" button, display a fault code.

NO	Items	Temperature display area	Content	Control Methods
1	Normal	Display temperature value	Display current temperature value of each sensor	/
1	RT-SNR bad	F2	Short circuit or disconnection of RT-SNR	Controlaccordingtotheenvironmental temperature scope of23℃≤RT<28℃
2	R-SNR bad	F3	Short circuit or disconnection of R-SNR	Defrost after 30 minutes, the fan and the air switch continuous operation, after that the PC air switch go into 10 minutes off the 10 minute cycle
3	F-SNR bad	F4	Short circuit or disconnection of F-SNR	Compressor enters the circulation state under which it opens for 15 minutes and then closes for 15 minutes every 30 minutes
4	S-SNR bad	F5	Short circuit or disconnection of S-SNR	PC air switch go into 10 minutes off the 20 minute cycle
5	D-SNR bad	F6	Short circuit or disconnection of D-SNR	Automatic defrosting procedure is carried out normally, and the defrosting time is 30 minutes.
6	Bad communication	E0	Display board and power board can not be connected for 2 minutes	/
7	Defrosting fault	Ed	Temperature of defrosting sensor can not reach 12 degrees in 90 minutes after rising	/
8	F-FAN unhealthy	E1	/	/
9	Humidity sensor fault	EH	Short circuit or disconnection of D-SNR	according to humidity 80% control

[2] T mode

Entering mode: Click the TEST button (or open the door, locked, press the "Fridge" button, press the "My zone" button on the 5).

Exit mode: Under the condition of T4 click the TEST button (or T4, open the door, locked, press "Lock"

button.)

Display	set way	control way	Remark
		1) COMP high speed	
		64Hz;	
		2) F-FAN 12V;	
	Click the TEST	3) DEF-HTR OFF;	
	button, PULL DOWN	4) Refrigerated door	
	mode into 10 seconds	fully open;	This function does not quit without
11	(or open door, lock,	5) The variable	manual withdrawal or power failure.
	press the "Fridge"	temperature damper	
	button, press the "My	opens the angle for	
	zone" button 5 times.)	30°;	
		6) Display panel	
		displayT1.	
		1) COMP OFF;	
		2) F-FAN OFF;	
	Click two time TEST	3) DEF-HTR ON;	Start to frost:
	button, after 10	4)PC air switch off;	If D-SNR = 12 degree, D-HTR 10S exit;
	seconds into the pre	5)my zone air switch	If D-SNR is less than 12 degree, then
T2	cooling forced defrost	off;	D-HTR to D-SNR reached 12 degrees (the
	function (or in the T1,	6)Panel display T2;	longest 90min D-SNR exit forced exit;
	press the "Lock"	7) Cancel the defrost in	D-SNR fault, the 30min exit) exit;
	button, enter the T2)	defrosting process,	Manual forced exit, exit
		immediately quit	
		defrost	
	Click 5 times TEST	Restore normal	
Normal	button exit TEST	control	/
display	mode		·

[3] Exhibition function

Entering mode: Open the door, locking condition, press the "Freezer" button and press "Lock" button 5 times to enter the exhibition function.

Exit mode: The exhibition function, open the door, locking condition, press the "Freezer" button and press "Lock" button 5 times to exit the exhibition function.

Control mode: The refrigerator enter into the exhibition function mode, PC, frozen lights, blue lights, compressor, fan, air switch, heating wire and other load stop working, the refrigerator display can work

Common questions

① Refrigerator not working

- Power off (plug, socket, fuse, etc.)
- Low power voltage

2 Refrigerator making abnormal sound

- Refrigerating fluid will make a sound during flowing in pipeline, which is normal.
- Refrigerator will give out loud buzzing sound when used for the first time due to under unstable condition, which is normal.
- When refrigerator operating, evaporator and pipeline will give out "bang-bang" sound due to heat expansion and cold contraction, which is normal.
- When refrigerator starts and stops operating, relay and other components will give out "click" because of action, which is normal.

③ Temperature inside the refrigerator is not low enough

- Excessive setting temperature.
- Door is not closed tightly or refrigerator door is opened frequently, door opened for a long time.
- Place where refrigerator is located is affected from direct sunlight or too close to stove and heater, other heat source.
- improper ventilation, panels on both sides of refrigerator steel plate on the back is blocked, or this position is too dirty.

④ Big noise

- Weather floor is flat and refrigerator is placed stably.
- Weather part of refrigerator touches external object or wall. Refrigerator gives out a sound and key operation is invalid.
- Check to see whether refrigerator is power-off.

(5) Invalid sound button operation of refrigerator

- Check to see whether refrigerator is power-off.
- Weather button operation is wrong, correctly operate as per "function introduction".

6 Automatic variation of temperature display value

- Temperature display value of refrigerator varies, which is normal.
- Variation of temperature display value under artificial intelligence: when environmental temperature changes, temperature of refrigerator will be adjusted automatically, which is normal.

O Serious frosting on the back wall of refrigerator

- Temperature setting is improper and see "manual temperature regulation".
- Door is not closed tightly or propped by foods.
- Door is opened frequently.
- Hot weather, excessive moistening and improper ventilation.

8 Higher temperature of containing box of fridge

- Heat distribution through panels on both sides of containing box, partition between refrigerator compartment, temperature-variation compartment and freezer compartment, with higher temperature, which is a normal phenomenon.
- Operating for a long time and high temperature on the surface of containing box when using initially, which is a normal phenomenon.
- 9 Compressor operating for a long time

- operating for a long time when used for the first time, which is normal.
- Lots of foods are placed into the refrigerator at a time to be cooled.
- Hot weather and refrigerator is opened frequently.
- Refrigerator is not closely tightly.
- Low temperature setting and see "manual temperature setting";
- 0 Higher temperature of containing box and light is out
- Weather lamp is damaged.
- Weather power is off.

Chapter 9 Trouble shooting

Abnormal phenomena

9-1. Symptom: No freezing



9-2. Symptom: no shutdown



9-3. Symptom: Poor freezing



9-4. Symptom: No starting when powering on



9-5. Symptom: no defrosting



Sincere forever

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