

Refrigerator

Service manual

MODEL: RS-36DR*(BCD-275Q)



NOTE: This is a basic model the shape and specification of refrigerator is subject to change.

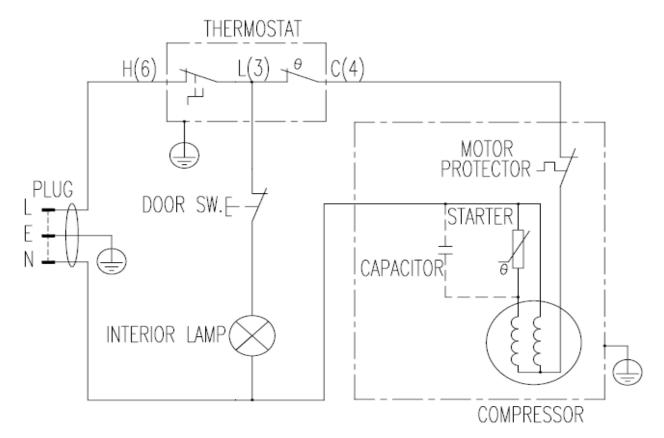
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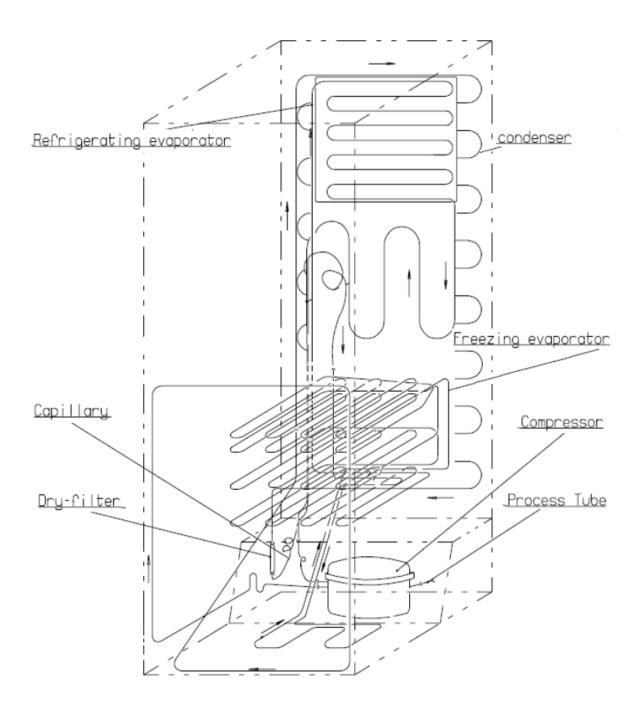
Parts Description

1.Temperature regulator 2.Storage shelf. 3.Crisper Cover 4.Crisper 5.Upper Drawer in freezer
 6.Middle Drawer in freezer 7.Lower Drawer in freezer 8.Upper Door shelf 9.Lower Door shelf

Circuit diagram

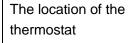


Cooling diagram



The guide for Disassembly Common parts of Refrigerator

♦ The instruction of replacing thermostat.







Remove screws of thermostat box





Unplug the connecting wire Take out the thermostat





♦ The instruction of replacing lamp.

The location of the LED lamp The operation of replacing LED lamp is same to remove thermostat





- 1、Remove the LED lamp cover
- 2. Take out the lamp



♦ The instruction of replacing Door switch.

The location of door switch



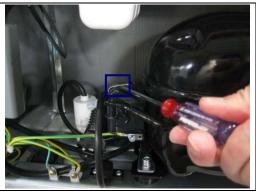


Take out the door switch with a screwdriver



♦ The instruction of replacing PTC Starting relay and Overload protector.

Take down Spring tap and Cover.







Troubleshooting

◆ The common problem judging method

Problem	Cause
	1.1 Is the power cord connecting well?
D.C	1.2 Is the power voltage too low?
	1.3 Is the ambient temperature too low?
Refrigerator can't	1.4 Is the circuit on power?
start	1.5 Is there some default in compressor
	1.6 Is the refrigeration system blocked by ice or dirty, please stop the unit and
	restart after 10 minutes to see if the compressor can start.
	2.1 Is there any heat source around the refrigerator?
	2.2 Is there enough space around the refrigerator for rejection of heat?
Weak cooling effects	2.3 Is the setting of the temperature appropriate?
	2.4 Is there too much food or overheating food in it?
	2.5 Does the door open frequently?
	2.6 Is the door completely closed?
	2.7 Does the gasket destroyed or distort?
	2.8 Does the gas leak?
	3.1 Is there any heat source around the refrigerator?
	3.2 Is there enough space around the refrigerator for rejection of heat?
	3.3 Is the setting of the temperature appropriate?
The unit can not stop	3.4 Is there too much food or overheating food in it?
running	3.5 Does the door open frequently?
	3.6 Is the door completely closed?
	3.7 Does the gasket destroyed or distort?
	3.8 Is the thermostat good operation?

	3.9 Does the gas leak?	
	4.1 Is the setting of the temperature appropriate?	
Ice up in the freezing	4.2 Is there multi-moisture food and too close to the back wall of the refrigerator?	
	4.3 Is the ambient temperature too low?	
chamber	4.4 Is the electric parts on good condition, specially the thermostat wich will	
	cause the unit non-stopping	
	5.1 Is the refrigerator stably placed?	
	5.2 Does the refrigerator bump other objects?	
	5.3 Whether the internal accessory of the refrigerator is in the right place.	
	5.4 Whether the water plate of compressor is fall from the unit.	
	5.5 Does the tube of the refrigeration system bump each other?	
Abnormal noise	5.6 The noise sound likes Water flow inside the refrigerator, in fact, it is normal,	
	which is caused both when refrigerator start and shut-down; in addition,	
	frost-dissolving causes this sound, too, which is a normal phenomenon.	
	5.7 There will be a cracking sound in the cabinet ,when the cabinet or cabinet	
	accessory contracting or expanding, this sound will be made, which is normal.	
	5.8 The motor operation sound in the compressor is appears to be louder at night	
	or begin starting. which is a normal phenomenon; also the uneven placing would	
	lead to too much running noise.	
There is a peculiar	6.1 Is the food with special smell sealed tight?	
smell in the units	6.2 Does it have long time storing food or degenerated food?	
Sition in the dilits	6.3 Whether the internal cabinet needs cleaning.	
the forefront or the	7.1 As fridge Anti-condensation tube is placed here and caused the above	
middle cabinet heats	phenomenon, which is normal.	
Refrigerator's two	9.1 As condensation tube is placed here and equaed the above phasements	
sides or the back	8.1 As condensation tube is placed here and caused the above phenomenon,	
heat which is normal.		
the cabinet surface	0.1 Air humidity is too large	
condensation	9.1 Air humidity is too large.	

♦ The solution for the common problem.

1.Cooling is not enough good		
(Many reasons might cause that cooling not enough good, as blow:)		
Reason	analysis	Solutions
1) Leakage of Gas	If some gas leaked unit will work not well.	First find out the point of leaking
	Phenomenon of failure:	on tube, and then sealed it,
	a. lower pressure of liquid cycle system	vacuuming it, finally recharge with
	b. high temperature of copper tube of	Gas.
	discharging gas, hand feels very hot.	Note:
	C. much noise, sounds like "ZZZZZ", comes	If you find oil on somewhere, it is
	from outlet of capillary.	possible that leakage point is
	d. the temperature fell down very slowly.	there.
	If too much Gas was charged into the cycle	First stop unit for several minutes,
2) The quantity of	system, the extra gas will occupy some	and then open charging tube,
Gas is too much	space of evaporator, so that the area of heat	discharge all of gas. Change a
	exchange becomes less, unit will work not	new filter, and then recharge gas,

	well	finally appled the system
	well. Phenomenon of failure:	finally sealed the system.
	a, higher pressure of liquid cycle system	
	than norm.	
	b, higher temperature of condenser.	
	c, larger electric current of compressor	
	d, there maybe ice on the suction tube.	
	e, when gas is too much, some gas liquid	
	might goes back into compressor,	
	compressor will be damaged by liquid.	
	The air in system will cause lower efficiency	
	of cooling.	First stop unit for several minutes,
	Phenomenon of failure:	and then open charging tube,
3) There is air in the	a, higher pressure of liquid cycle system	
liquid cycle system	than norm, but the pressure is not over the	discharge all of gas. Change a
	limit.	new filter, and then recharge gas,
	b, higher temperature of discharging tube.	finally sealed the system.
	C, much noise	
	General when a compressor works for many	
	years, some parts of compressor were wear,	
	so that compressor discharge less gas out,	
	unit does not work strongly.	
	Phenomenon of failure:	
4)Low working	a, lower pressure of discharging, check the	
efficiency of	pressure of system with pressure meter to	Change a new compressor.
compressor	see if it is normal.	-
	b, higher temperature of compressor	
	surface.	
	C, cut off the discharging tube, to see if you	
	can block the gas coming out of the tube	
	when compressor is working.	
	Some time there is something blocked the	
	filter of liquid cycle system, so that unit is not	
5) There is something that blocked the liquid cycle system	cold.	
	Phenomenon of failure:	Change a new filter
	a, lower pressure of discharging	
	b, lower temperature of discharging.	
2.NO COOL		
(Popular failure reasons	s are below):	
,		

Reason	analysis	Solutions:
1) Leakage of gas	Phenomenon of failure:	First find out the point of leaking on tube,
	a, leaking fast	and then sealed it, vacuuming it, finally
	b, leaking slowly	recharge with gas.
	c, no voice of liquid flowing	Note:
	d, cut off charging tube, no gas	If you find oil on somewhere, it is possible
	goes out.	that leakage point is there.
2)There is some thing	A, Ice blocking	First stop unit for several minutes, and then

that blocked the liquid cycle system

Sometime because unknown reason water comes into liquid cycle system, the capillary will be blocked by water after unit runs for period of time.

Phenomenon of failure:

The unit works well in the inception, after period of time the ice appears in the capillary and becomes more and more, till blocks the hole of capillary completely. In the moment you can find the ice on the evaporator defrosts. The noise of liquid flow disappears. The pressure of absorbing becomes negative. The phenomenon above will appear again and again. The way to check ice blocking: Warm the capillary with a hot towel, after a while the ice in the capillary melt, you can hear a sound of gas flow comes from the capillary abruptly. The pressure of absorbing becomes higher. It is Ice blocking.

open charging tube, discharge all of gas. Blow the cycle system with gas of nitrogen, and then recharge Gas, finally sealed the system.

B, there is offal block the capillary
Phenomenon of failure:
If the capillary is blocked by
something such as offal etc., the
sound of liquid flow disappears.
The ice on the evaporator defrosts
The pressure of absorbing
becomes negative.
Higher temperature of discharging
tube
The way to check offal blocking:
If you warm capillary with the way
of checking ice blocking, there is
no change. It must be offal
blocking.

First stop unit for several minutes, and then open charging tube, discharge all of gas. Blow the cycle system with gas of nitrogen. Change a new capillary and filter, and then recharge Gas, finally sealed the system.

COMPRESSOR NEVER STOPS:

Reason	Solutions
1)The setting temperature is not reasonable.	Readjust the temperature setting.
2) the sensor is bad.	Replace the sensor.
3)Seal of door is damaged.	Replace the gasket
4)Too much food in the refrigerator	Please put the food properly.

5)Wind door is broken.	Replace wind door.
6)Fan motor is broken.	Replace fan motor

Note:

- Before doing these operations above, disconnect the main power supply. Failure to do so could result
 in electrical shock or personal injury.
- In case of any detailed technical information please check with the technical specifications.