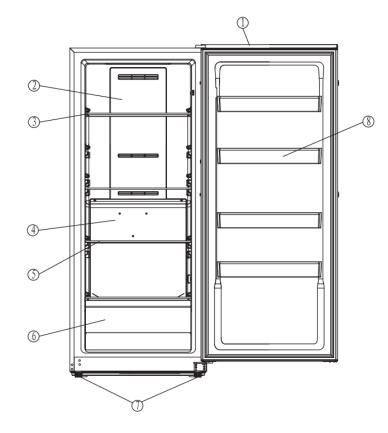
Service Manual PFV1405XW PFV1406XS

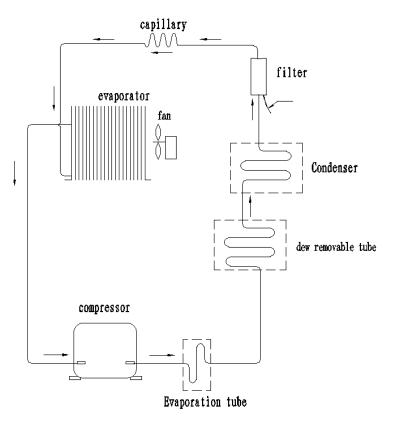
PARTS IDENTIFICATION	,
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Door
 Upper air duct plate
 Glass shelf I
 Lower air duct board
 Glass shelf II
 Lower drawer
 Adjustable Feet
 Door shelf

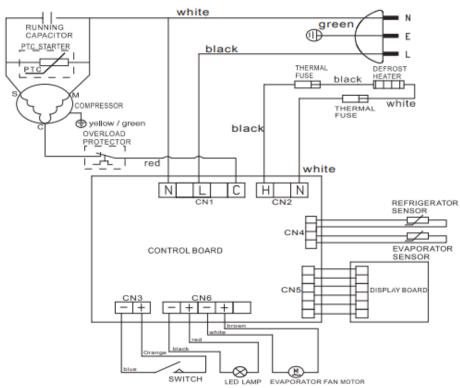


REFRIGERATION CIRCUIT

Basic refrigeration schematic



CIRCUIT DIAGRAM



CIRCUIT DIAGRAM

SAFETY PRECAUTIONS

AFETY REQUIREMENTS

DANGER: Risk of fire or explosion. Flammable refrigerant used. Do not puncture refrigerant tubing.

- Do not use mechanical devices to defrost refrigerator.
- Ensure that servicing is done by factory authorized service personnel, to minimize product damage or safety issues.
- If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified person in order to avoid hazard.
- Consult repair manual or owner's guide before attempting to service this product. All safety precautions must be followed.
- Dispose of properly in accordance with federal or local regulations.
- Follow handling instructions carefully.
- Do not store explosive substances such as aerosol cans with a fl ammable propellant in this appliance.

WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

WARNING: Do not damage the refrigerant circuit.

WARNING: Do not use electrical appliances inside the food storage compartments of the appliance, unless they are of the type recommended by the manufacturer.

CAUTION: Risk of fire or explosion. Flammable refrigerant used.

CAUTION: Children should be supervised to ensure that they do not play with the appliance.

DANGER: Risk of child entrapment. Before throwing

away an old appliance:

- Remove the door or lid.
- Leave shelves in place so that children may not easily climb inside.

DANGER: Do not add a lock to the door or lid. This can cause child entrapment and harm.

SAFETY PRECAUTIONS

SAFETY REQUIREMENTS

This appliance is not intended for use by persons (including children) whose physical, sensory or mental capabilities may be different or reduced, or who lack experience or knowledge, unless such persons receive supervision or training to operate the appliance by a person responsible for their safety.

This appliance is intended to be used in household and similar applications such as:

- Staff kitchen areas in shops, offi ces and other working environments;
- Farm houses and by clients in hotels, motels and other residential type environments;
- Bed and breakfast type environments;
- Catering and similar non-retail applications.

GROUNDING INSTRUCTIONS

This appliance must be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electrical current. This appliance has a cord that has a grounding wire with a 3-prong plug. The power cord must beplugged into an outlet that is properly grounded.

If the outlet is a 2-prong wall outlet, it must bereplaced with a properly grounded 3-prong walloutlet. The serial rating plate indicates the voltage and frequency the appliance is designed for.

WARNING - Improper use of the grounding plug can result in a risk of electric shock. Consult a qualifi ed electrician or service agent if the grounding instructions are not completely understood, or if doubt exists as to whether the appliance is properly grounded.

Do not connect your appliance to extension cords or together with another appliance in the same wall outlet. Do not splice the power cord.

Do not under any circumstances cut or remove the third ground prong from the power cord. Do not use extension cords or ungrounded (two prongs)adapters.

If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified person in order to avoid hazard.

USING INTRODUCTION

LOCATION

- Two people should be used when moving the appliance.
- Remove interior and exterior packaging prior to installation. Wipe the outside of the appliance with a soft, dry cloth and the inside with a lukewarm wet cloth.
- Place the appliance on a fl oor that is strong enough to support it when it is fully loaded.
- Do not place the appliance in direct sunlight or near sources of heat, such as a stove or heater, as this can increase electrical consumption. Extreme cold ambient temperatures may also cause the appliance to perform improperly.
- Do not use the appliance near water, for example in a wet basement or near a sink.
- This appliance is intended for indoor household only. It is not designed for outside installation, including anywhere that is not temperature controlled such as porches, vehicles, etc.
- Before connecting the appliance to a power source, let it stand upright for approximately 6 hours. This will reduce the possibility of a malfunction in the cooling system from handling during transportation.
- This appliance is 71.0 cm (27.95 inches) wide by 172.8cm (68.03 inches) high by 70.9 cm(27.89 inches) deep. Make sure that you leave the minimum amount of space between the appliance and all surrounding walls and vents. Do not cover any of the ventilation openings with any material as the appliance needs adequate space to breathe.
- Allow 12.7 cm (5 inches) of space between the back, sides and top of the appliance and all adjacent walls.
- This appliance is intended for free-standing installation only and is not intended to be built into a cabinet or counter. Building in this appliance can cause it to malfunction.

LEVELING INSTRUCTIONS

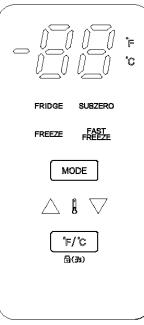
There are two adjustable legs on the bottom of the appliance that can be turned up or down to ensure that the appliance is level.

- 1. Turn the leveling leg counter-clockwise as far as it will go, until the top
- of the foot is touching the bottom of the chassis.
- 2. Slowly turn the leveling leg clockwise until theappliance is level.



USING INTRODUCTION

CONTROL PANEL



TEMPERATURE SETTING

When the temperature display is display will extinguish automatically after three minutes. When the display is extinguishing, press the keys to activate it, then key function will start work. Below operating instruction only applies to the display is unlocked

• Press the arrow buttons to set or adjust the temperature.

• "MODE", the operating mode will change and keep flashing when you press it. If no further action within 5 seconds, the current setting will take effect. The operating mode switch as follow: "FRIDGE"—"SUBZERO"—"FREEZE"—"FASTFREEZE"—"FRIDGE"

• " °F /°C", Tap the key, it will switch between the centigrade and Fahrenheit. The panel will lock if keep pressing " °F /°C" for 3 seconds. To unlock it, press " °F /°C" for 3 seconds.

• TEMPERATURE SCALE

"FRIDGE": 0°C~8°C (32°F~46 °F)

"SUBZERO": -4°C~-8°C (24 °F ~17 °F)

"FREEZE": -14°C~-24°C(7 °F ~-11 °F)

"FASTFREEZE": -18°C~-28°C(0 °F ~-18 °F)

OPEN DOOR ALARM

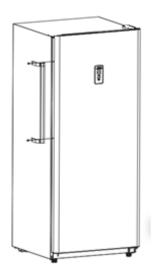
This appliance is equipped with a door alarm that will sound if the door is left open for more than 3minutes. The alarm will beep and the display will flash continuously until the door is closed. **HANDLE INSTALLATION**

The appliance ships with the handle inside the cabinet to protect it from damage. It must be installed by the end user. The appliance should be unplugged before installing the handle.

1. Position the handle over the exposed doorhandle posts.

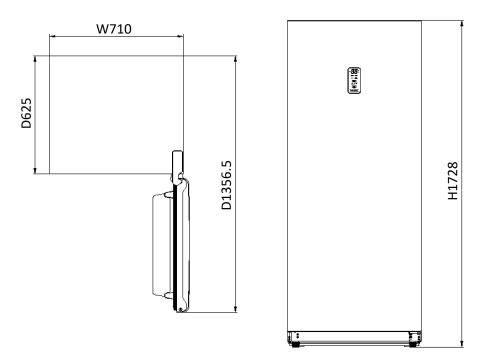
2. Remove the two screws from the side of door with a screwdriver, insert screws into the handle bracket, fi x it to the side of door and tighten it until snug.

Note: The handle may look slightly different based on the colour of the appliance.



USING INTRODUCTION

OUTER DIMENSIONS



CARE & MAINTENANCE

CLEANING

Ensure the appliance is unplugged before cleaning.

- To clean the inside of the appliance, use a soft cloth and a solution of a tablespoon of baking soda to one quart of water or a mild soapsolution or some mild detergent.
- Wash removable shelves in a mild detergent solution, then dry and wipe with a soft cloth.
- Clean the outside with a soft, damp cloth and some mild detergent.
- It is important to keep the area clean where the door seals against the cabinet. Clean this area with a soapy cloth. Rinse with a damp cloth and let dry.

Note: Do not use cleaners containing ammonia or alcohol on the appliance. Ammonia or alcohol can damage the appearance of the appliance. Never use any commercial or abrasive cleaners or sharp objects on any part of the appliance.

CARE & MAINTENANCE

POWER FAILURE

Most power failures are corrected within a few hours and should not affect the temperature of your appliance if you minimize the number of times the door is opened. If the power is going to be off for a longer period of time, take the proper steps to protect your contents.

Note: Wait 3 to 5 minutes before attempting to restart the refrigerator if operation has been interrupted.

DEFROST

This unit is equipped with an automatic defrost function and does not require manual defrosting.Defrost water from the appliance is channeled into a drip tray located above the compressor. Heat transfer from the compressor causes the defrost water to evaporate.

VACATION

- Short vacations: Leave the appliance operating during vacations of less than three weeks.
- Long vacations: If the appliance will not be used for several months, remove all items and turn off the appliance. Clean and dry the interior thoroughly. To prevent odor and mold growth, leave the door open slightly, blocking it open if necessary.

CARE & MAINTENANCE

ENERGY SAVING TIP

The appliance should be located in the coolest area of the room, away from heat producing appliances,

and out of direct sunlight. Do not overload the unit or block any ventilation openings.

MOVING

- Remove all items.
- Tape the door shut.
- Be sure the appliance stays secure in the upright position during transportation. Also protect the outside of the appliance with a blanket or similar item.
- If the appliance is placed on its back or side during transportation, upon reaching the destination, allow it to remain in its operating position for 6 hours to avoid damage to internal components.

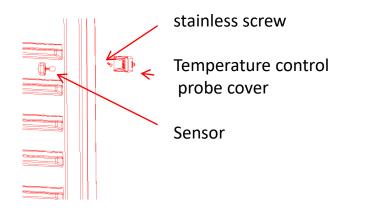
DISPOSAL

This appliance may not be treated as regular household waste, it should be taken to the appropriate waste collection point for recycling of electrical components. For information on local waste collection points, contact your local waste removal agency or government offi ce.

CARE & MAINTENANCE ERROR CODES

- E1: The freezer sensor failure
- E2: Freezer defrosting sensor failure
- E3: The freezer sensor failure and freezer defrosting sensor failure
- CO: Communication failure
- dr: Door opening alarm
- EH: Freezer high temperature
- EL: Freezer low temperature
- H1: The freezer heater failure

CARE & MAINTENANCE

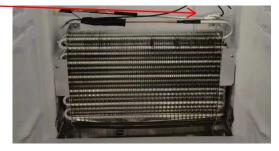


Remove the stainless screw
 Remove the temperature control probe cover
 Remove theSensor and replace the Sensor

 Remove the Lower Air Duct Plate screw
 Remove theDefrosting sensor and replace the Defrosting sensor

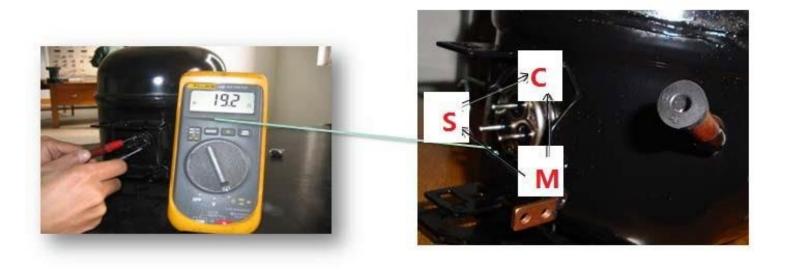
Defrosting sensor

Lower Air Duct Plate screw



Checking the compressor

Resistance range at 25°C: Resistance between C and M $5.67^{-}6.93\Omega(6.3\Omega \pm 10\%)$; Resistance between C and S $6.03^{-}7.37\Omega(6.70\Omega \pm 10\%)$; Resistance between S and M $11.70^{-}14.30\Omega(13.00\Omega \pm 10\%)$



Checking the compressor accessory

Disassemble the PTC starter and Over loaded Protector

- 1. Remove the PTC and OLP components separately
- 2.Use a flat-head screwdriver against the hook of the OLP, then press it down

3.When the clip is unhooked, the PTC and OLP can be separated









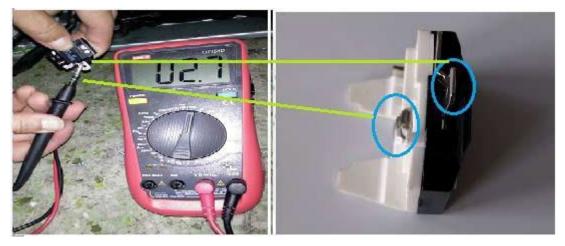
Checking the compressor accessory

Compressor Protector test ——

Use a multi-meter to test the resistance between the two end as the pic show :

If there show 000 or almost 0 then it is OK.

If there is no response then it is broken.



OLP protector : DRB31T61A1

Checking the compressor accessory

Compressor PTC starter test ——

Use a multi-meter to test the resistance between the two end as the pic show

If there show the number is between about 3.5-5.8 then it is OK.

If there show 000 or no response then it is broken.

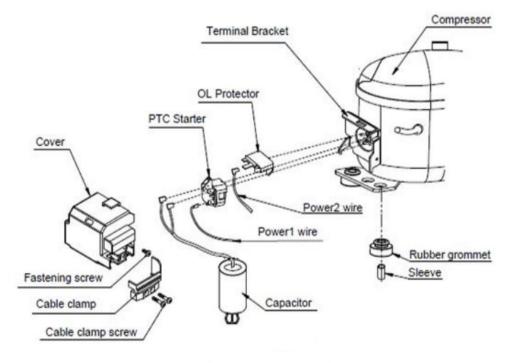
After the replacement of the PTC and OLP, the compressor still does not start. If there is no exhaust, the compressor is fault.



PTC starter:QPE2-A4R7MD3

The instruction of replacing PTC and Overload protector

- 1.Remove the fastening screws
- 2. Remove the Compressor Wire Clamp Screw
- and Compressor Wire Clamp
- 3.Remove the cover
- 4.Replace the PTC Starter & OLP

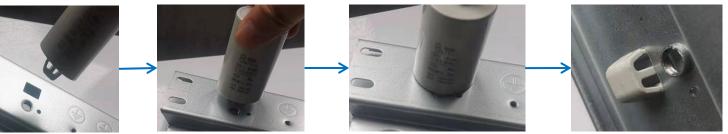


Compressor Capacitor install and removal

Install Capacitor:

1.M-type clip is aligned with the rectangular hole on the compressor baseplate

- 2.Press down hard till hear a "ding"
- 3. Check whether the capacitor is fastened or not

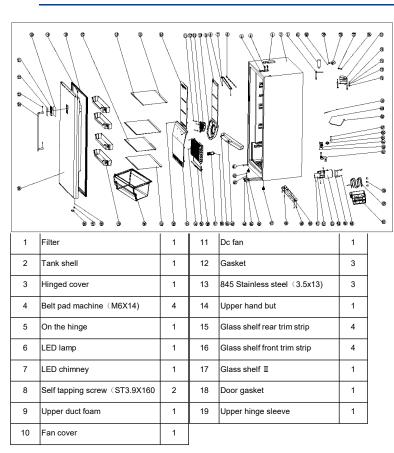


Remove Capacitor:

Place the freezer sidways until you can see the compressor baseplate
 Clamp the capacitor M-type clap with plier and press it in slightly.
 When the M-type clap is unhooked, you can remove the capacitor.



EXPLODED DRAWING



_	20	Display panel	1	40	Flow plate	1	62	Drainage elbow	1
	21	Display plate	1	41	Cap nail	2	63	Self tapping screw(4x12)	2
	22	According to the face	1	42	Hinge gasket	1	64	Drain connection pipe	1
	23	819 Stainless steel (5x16)	2	43	Hinge base	1	65	Exhaust cover	1
	24	White side door handle	1	44	Padded machine tapping	4	66	Exhaust cover plates	1
	25	Hydrodynamic	1	45	M8 Nut	1	67	Exhaust cover fixing column	1
	26	Threshold a piece	1	46	Lower hinge	1	68	Power cord	1
	27	Lower door axis sheath	1	47	Adjustable foot	2	69	818Machine attack(ROHS) 4X8(With gear washer)	1
	28	Big flat head attack(ROHS)4x12	1	48	Self tapping screw(4x12)	4	70	Ground wire	1
	29	Upper door rack	4	49	Compressor base plate	1	71	Rubber wire	4
	30	Drawer	1	50	Wheel cobalt	2	72	Bushing	4
	31	Glass shelf I	3	51	Screw	1	73	Washer	4
	32	845 Stainless steel (Large flat head)4x12	2	52	Electric control board	1	74	Bolt(M6X30)	4
	33	Lower air duct board	1	53	Electric control box cover	1	75	Compressor	1
	34	845 Stainless steel (4.2x16)	2	54	Electric control box	1	76	Starter	1
	35	Heating tube	1	55	Fixed connector of main control	1	77	Overload protector	1
	36	Evaporator	1	56	Self tapping screw(4x12)	4	78	Housing	1
	37	Probe cover	1	57	Water tray	1	79	Clamp(FZ40C1J-U)	1
	38	845 Stainless steel (ST3.9x16)	1	58	Water removal evaporation pipe	1	80	Self tapping screw(ST3.5X19)	1
	39	818Machine attack(ROHS) 4X8(With gear washer)	1	59	Damping rubber block	3	81	Capacitance	1
		HAD (WILLI YEAL WASHEL)				-			

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE
No power	 A fuse may be blown or the circuit breaker tripped
	• Plug not fully inserted into the wall outlet
Internal temperature not cold enough	Temperature setting is too warm
	• Door is not shut properly or opened excessively
	Exhaust vent is obstructed
	 Recently added a large quantity of warm food to the cabinet
	Close proximity to heat source or direct sunlight
	• Ambient temperature or humidity is very high
Appliance runs continuously	Temperature setting is too cold
	• Door not shut properly or opened excessively
	Exhaust vent is obstructed
	 Recently added a large quantity of warm food to the cabinet
	Close proximity to heat source or direct sunlight
	• Ambient temperature or humidity is very high
Internal temperature is too cold	Temperature setting is too cold
Noises	 Parts are expanding and/or the refrigerant is circulating; this is normal