

# SERVICE MANUAL

15" Built-In Kegerator

**MODEL:** 

BR1500SS, BR1500SSOD, BR1500BL

CAUTION: READ ALL SAFETY PRECAUTIONS IN THIS MANUAL BEFORE SERVICING THE UNIT



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### SAFETY PRECAUTIONS

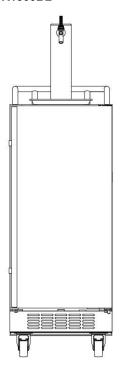
WARNING: This manual and the information contained herein is intended for use by certified technicians. The manufacturer or seller is not responsible for the interpretation or misuse of the information provided, nor does it assume any liability in connection with its use.

The safeguards and warnings indicated in this manual do not cover all possible conditions which may occur. Common sense, caution, and care must be exercised.

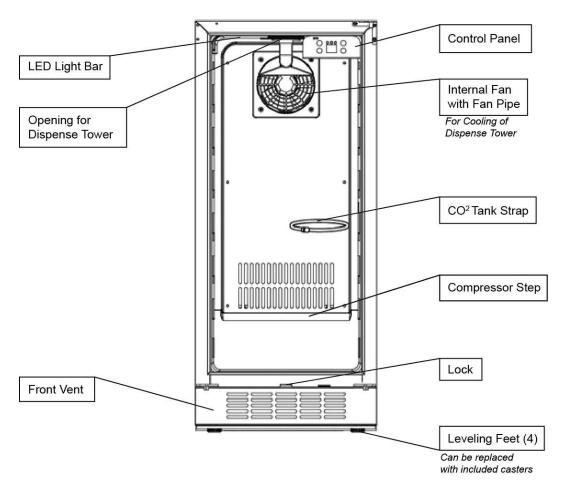
- To prevent electric shock, always unplug an appliance from the power supply before attempting any service.
- Disconnect the power cord by grasping the plug, not the cord.
- Do not bypass, cut, or remove the grounding plug.
- Prevent water from spilling onto electric elements or the machine parts.
- Always refer to the rating label on the appliance for rated current and voltage.
- Always check line voltage and amperage.
- Always use exact replacement parts.
- Any attempt to repair a major appliance may result in personal injury and property damage.

# 2. PARTS IDENTIFICATION

Model: BR1500SS, BR1500SS0D, BR1500BL



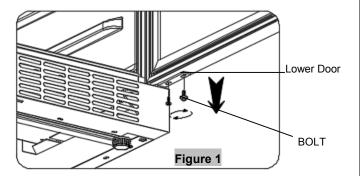
### Front View



#### 3-1 **DOOR**

(Models: BR1500SS, BR1500SS0D, BR1500BL)

Loosen 2 bolts fixing the lower door axis to the lower hinge to remove the door. (Figure 1)



#### 3-2 *LAMP*

(Models: BR1500SS, BR1500SS0D, BR1500BL)

1. Loosen three screws. (figure 2)



Figure 2

1. Unplug the led light connector. (figure 3)

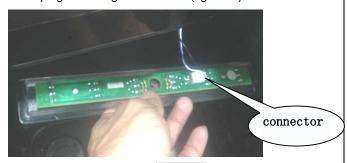
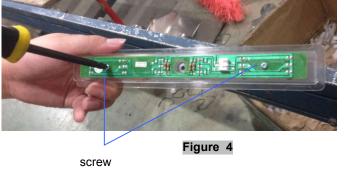


Figure 3

2. Loosen four screws. (figure 4)

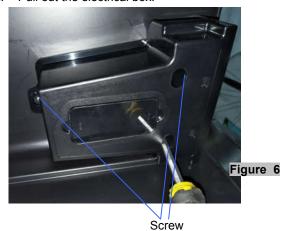


3. Pull out the LED light. The LED light is like below. (figure 5)



# 3-3 DISPLAY BOARD & CONTROL BOARD (Models: BR1500SS, BR1500SS0D, BR1500BL)

- 1. Loosen three screws. (figure 6)
- 2. Pull out the electrical box.



3. Unplug cable connectors. (figure 7)



Figure 7

4. Take off the control panel film.(figure 8)



Figure 8

5. Pull out the display board assembly (figure 9)



Figure 9

6. Disassemble the display board。 (figure 10)



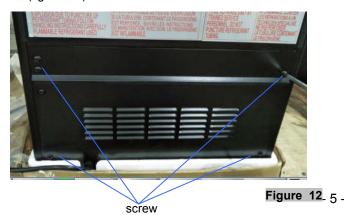
Figure 10

7. The control board is like below. (figure 11)



Figure 11

- 3-4 POWER BOARD & TRANSFORMER (Models: BR1500SS, BR1500SS0D, BR1500BL)
- Loosen four screws, Take off the compressor cover-(figure 12)



PUNCTURE RÉFRIGERANT LE FRIGORIGENE.

2. Loosen three screws. (figure 13)



Figure 13

3. The power board & transformer are like below. (figure 14)



Figure 14

#### 3-5 SENSOR & FAN

(Models: BR1500SS, BR1500SS0D, BR1500BL)

1. Loosen two screws. (figure 15)



Figure 15

Loosen six screws. Pull out the rear air duct cover. (figure 16)

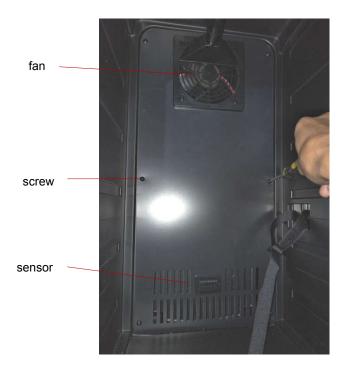


Figure 16

3. Loosen 1 screw. You can replace the sensor & fan.(figure 17)

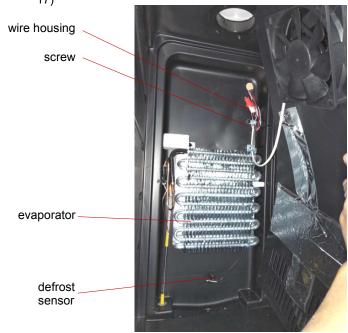


Figure 17

### 3-6 COMPRESSOR PTC STARTER & OVERLOAD PROTECTOR

(Models: BR1500SS, BR1500SS0D, BR1500BL)

 Open the box near compressor, The starter and overload protector inside it. (figure 18)



Figure 18

2. Dismantle the compressor PTC starter and overload protector. (figure 19)



Figure 19

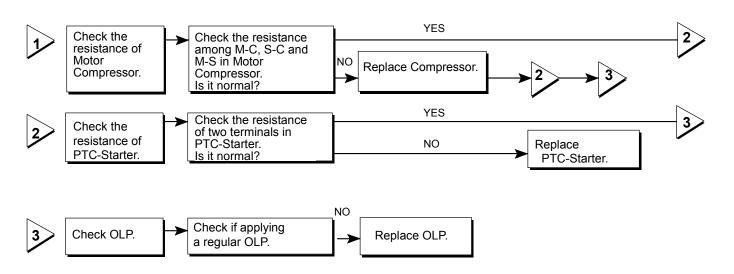
3. The compressor PTC starter and overload protector is like below. (figure 20)



Figure 20

### 4. TROUBLESHOOTING

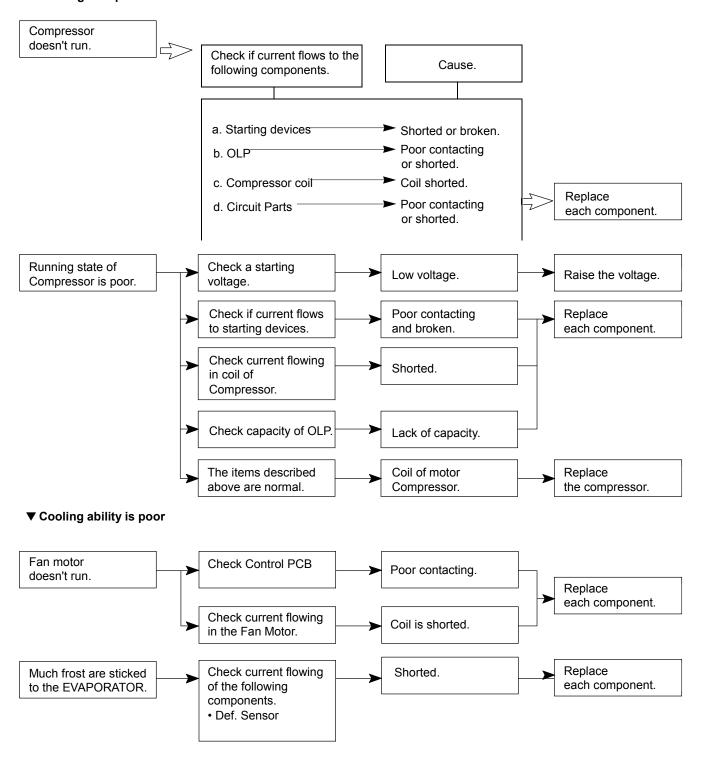
#### **4-1 COMPRESSOR COMPONENTS**



### 4. TROUBLESHOOTING

#### 4-2 ANOTHER ELECTRIC COMPONENTS

#### **▼** Cooling is impossible



# 4. TROUBLESHOOTING

#### **4-3 SERVICE DIAGNOSIS CHART**

Problem	Possible Cause		
Appliance does not operate.	Not plugged in.		
	The appliance is turned off.		
	The circuit breaker tripped or a blown fuse.		
Appliance is not cold enough.	Check the temperature control setting. External		
	environment may require a higher		
	setting.		
	The door is opened too often.		
	The door is not closed completely.		
	The door gasket does not seal properly.		
Turns on and off frequently.	The room temperature is hotter than normal.		
	A large amount of contents has been added to the appliance.		
	The door is opened too often.		
	The door is not closed completely.		
	The temperature control is not set correctly.		
	The door gasket does not seal properly.		
	The door gasket does not sear property.		
The light does not work.	Not plugged in.		
	The circuit breaker tripped or a blown fuse. The bulb has		
	burned out.		
	The light button is "OFF". Energy conservation button is on.		
Vibrations.	Check to assure that the unit is properly leveled.		
The appliance seems to make too much noise.	The rattling noise may come from the flow of the refrigerant,		
	which is normal.		
	As each cycle ends, you may hear gurgling		
	sounds caused by the flow of refrigerant in your refrigeration		
	appliance.		
	••		
	Contraction and expansion of the inside walls may cause		
	popping and crackling noises.		
The description to be a consider	The appliance is not level.		
The door will not close properly.	The appliance is not level.		
	The door was reversed and not properly installed. The gasket is		
	dirty.		
	The shelves are out of position.		
	The air concer has an anon circuit. Connection to main control		
Diaplay array and "E1"	The air sensor has an open circuit. Connection to main control		
Display error code "E1"	PCB is white color wires. Check the circuit, if it is normal,		
	the sensor may need to be replaced.		
	The air sensor has a short circuit failure. Connection main		
Display error code "E2"	control PCB is white color wires. Check the circuit, if it is normal		
	the sensor may need to be replaced.		
	The defrost sensor has an open circuit. Connection to main		
Display error code "E3".	control PCB is red color wires. Check the circuit, if it is		
	normal, the sensor may need to be replaced.		
	The defrost sensor has a short circuit failure. Connection to		
Display error code "E4".	main control PCB is red color wires. Check the circuit, if it is		
Display ellor code L4.	normal, the sensor may need to be replaced.		
	normai, the sensor may need to be replaced.		

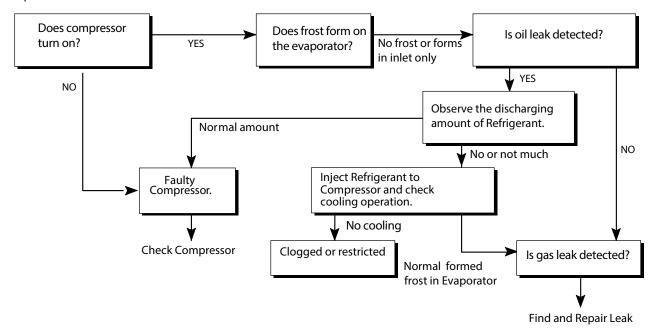
# 4. TROUBLESHOOTING

#### **4-4 REFRIGERATING CYCLE**

#### **▼** Troubleshooting Chart

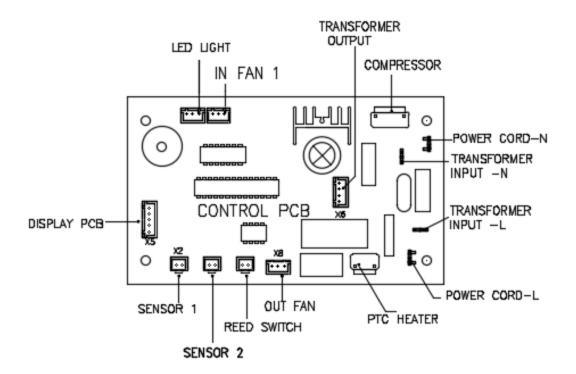
	CAUSE	STATE OF UNIT	STATE OF EVAPORATOR	TEMPERATURE OF COMPRESSOR	COMMENTS
LEAKAG	PARTIAL LEAKAGE	Appliance does not get cold enough	Low flowing sound of Refrigerant is heard and frost forms	A little high - more than ambient room temperature.	A little refrigerant discharges     Normal cooling is possible when charging refrigerant of regular amount stated on specification plate / rating label.
\GE	WHOLE LEAKAGE	Appliance does not get cold at all	Flowing sound of Refrigerant is not heard and frost isn't formed.	A little high - more than ambient room temperature.	A little refrigerant discharges     Normal cooling is possible when charging refrigerant of regular amount stated on specification plate / rating label.
CLOG IN CA	PARTIAL RESTRICTION	Appliance does not get cold enough	Flowing sound of Refrigerant is heard and frost forms	A little high - more than ambient room temperature.	<ul> <li>No discharging of refrigerant</li> <li>The capillary tube is faulty.</li> <li>The filter dryer is faulty.</li> <li>The condensor is faulty.</li> <li>The evaporator is faulty.</li> </ul>
CAPILLARY	WHOLE RESTRICTION	Appliance does not get cold	Flowing sound of Refrigerant is not heard and frost isn't formed.	A little high - more than ambient room temperature.	No discharging of refrigerant

Observe refrigerant disharging point. Oil dishcharge/stain is often best indicator. Use bubbles to locate hole in line, evaporator or condensor.



### 5. DESCRIPTION OF PCB

(Models: BR1500SS, BR1500SS0D, BR1500BL)





DATE	REVISION NOTES:
11/14/2017	Initial Document
12/19/2017	Formatting edits



