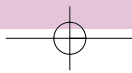
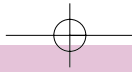


**TURBO** REFRIGERATOR MANUFACTURER  
***Turbo air***

1250 Victoria street  
CARSON, CA 90746  
TEL: 310-900-1000  
FAX: 310-900-1077  
Toll Free: 1-800-627-0032  
U.S.A. & Canada  
<http://www.turboairinc.com>



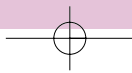


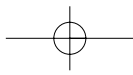
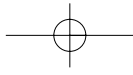
REFRIGERATOR MANUFACTURER  
***Turbo air***

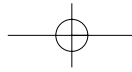
**Commercial  
Refrigerator  
Service Manual**

**Pizza Prep Table**

**Model No.: TPR-67SD  
TPR-93SD**





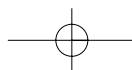


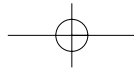
REFRIGERATOR MANUFACTURER  
***Turbo air***

# **Commercial Refrigerator Service Manual**

**Pizza Prep Table**

**Model No.: TPR-67SD  
TPR-93SD**





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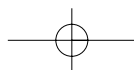
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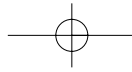
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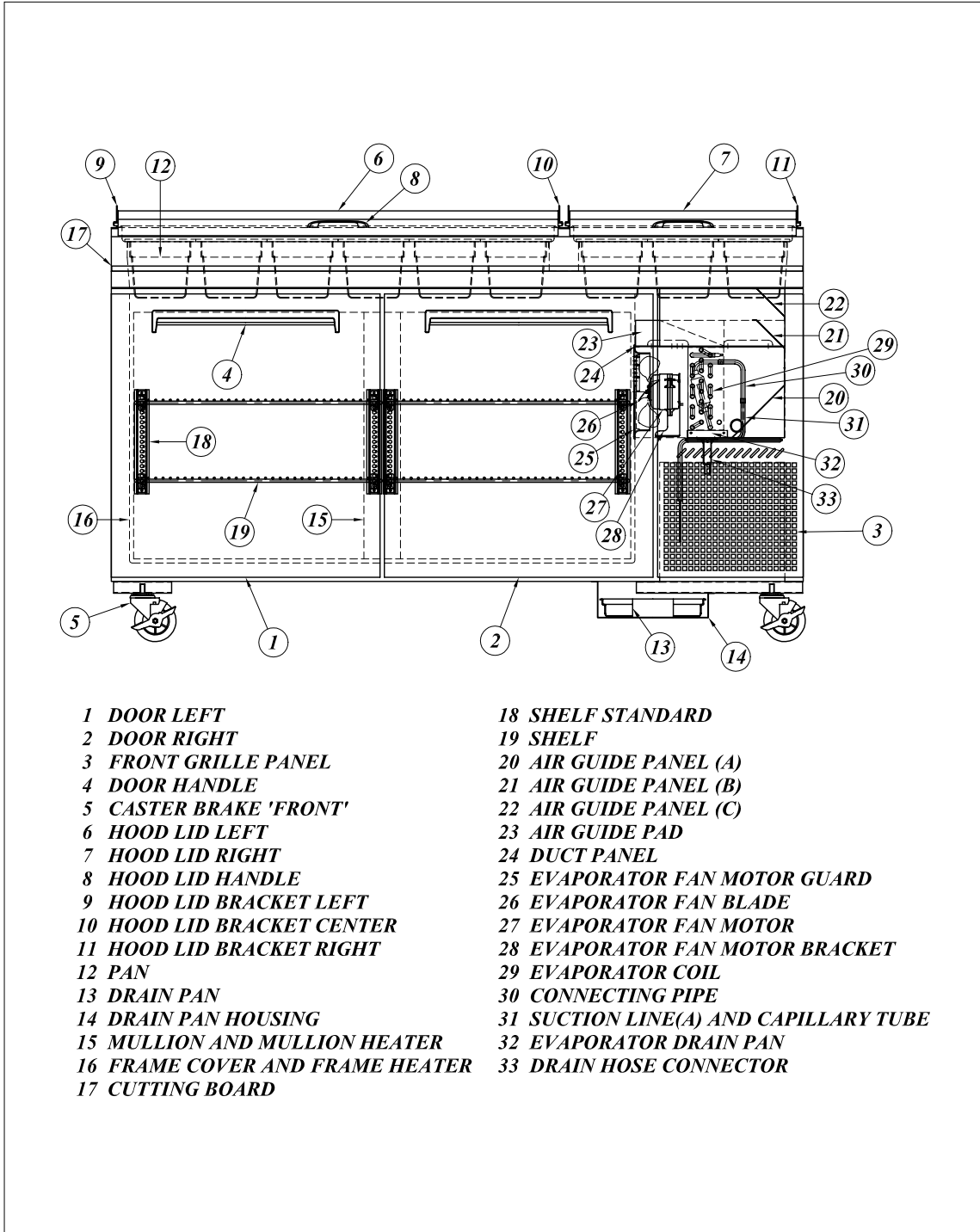
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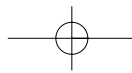


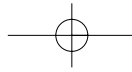
# 1. FEATURE CHART

## 1-1. FRONT VIEW



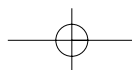
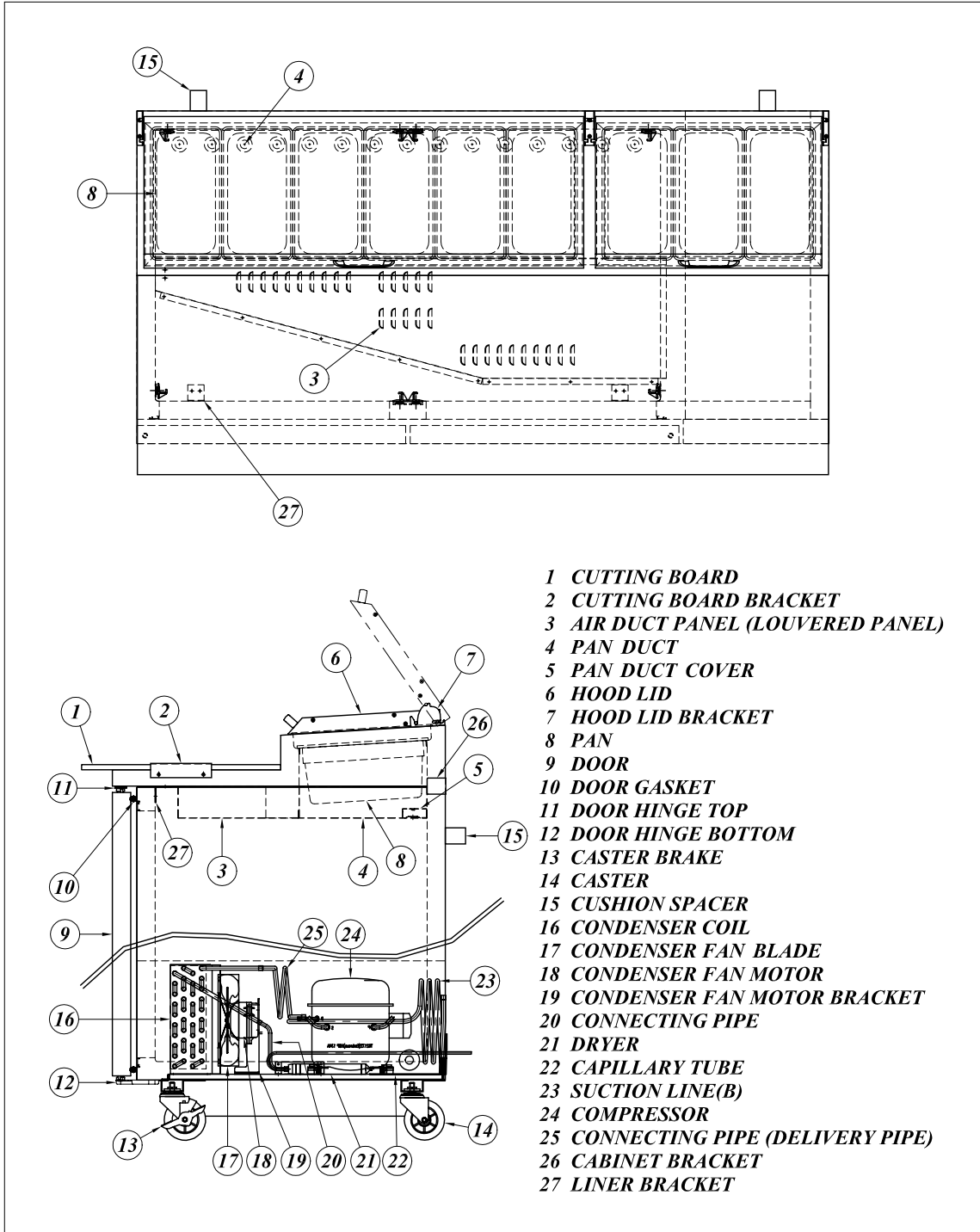
- |                                 |                                       |
|---------------------------------|---------------------------------------|
| 1 DOOR LEFT                     | 18 SHELF STANDARD                     |
| 2 DOOR RIGHT                    | 19 SHELF                              |
| 3 FRONT GRILLE PANEL            | 20 AIR GUIDE PANEL (A)                |
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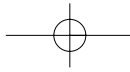




**FEATURE CHART**

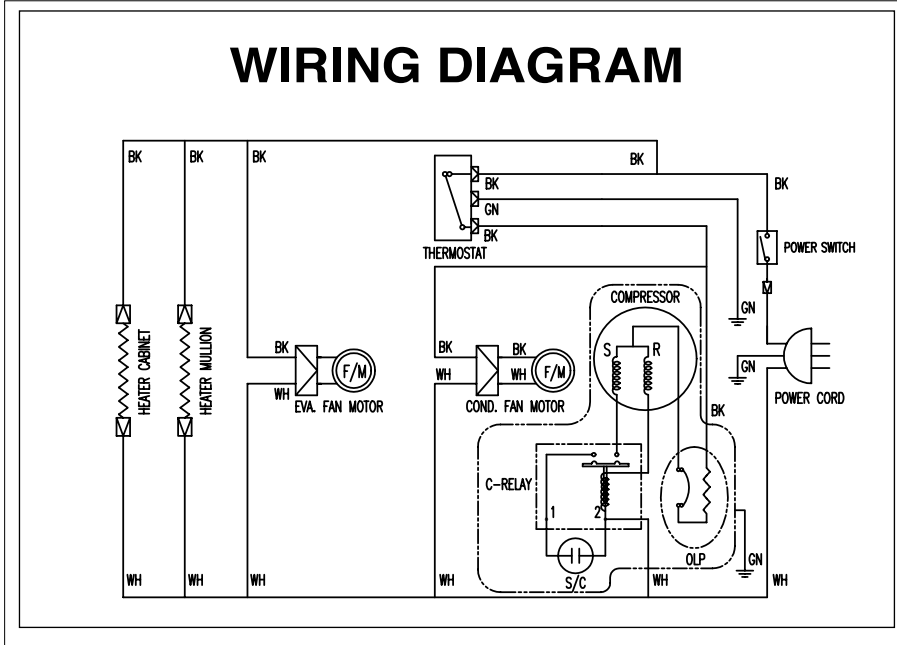
**1-2. PLAN VIEW AND SIDE VIEW**



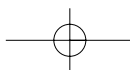
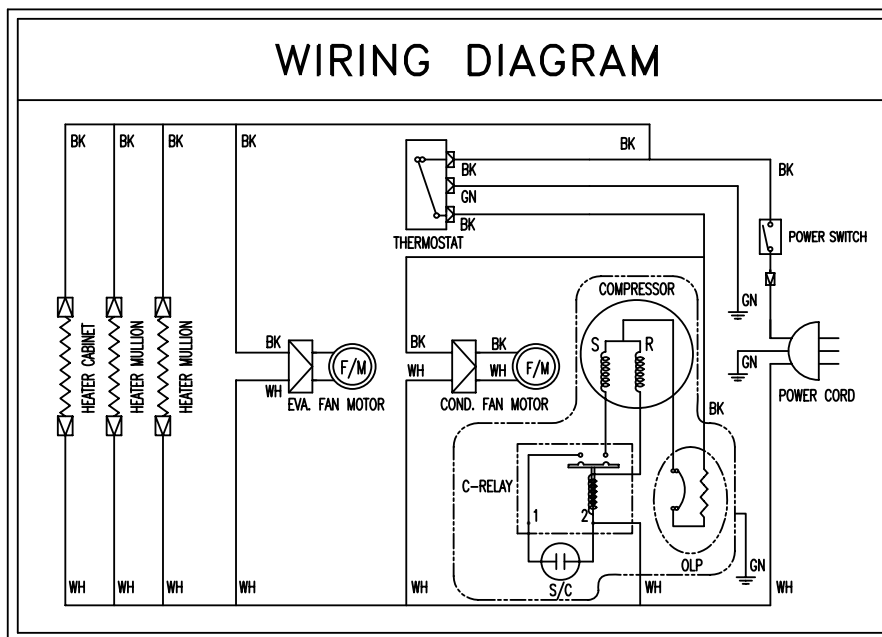


## 2. WIRING DIAGRAM

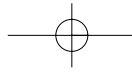
2-1. TPR-67SD



2-2. TPR-93SD

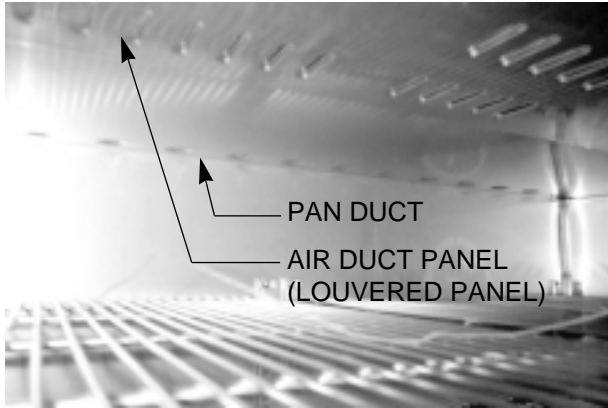




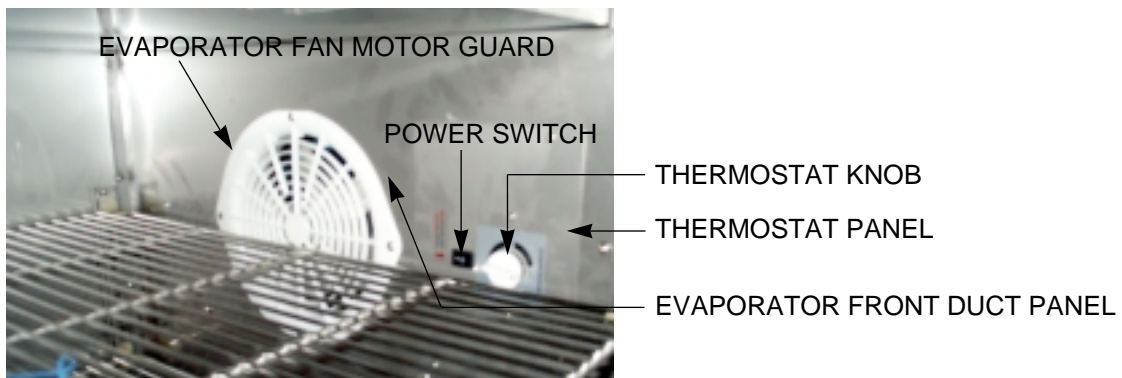


## 3. PART DETAILS

### 3-1. AIR DUCT PANEL (EXTERIOR)

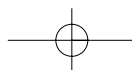
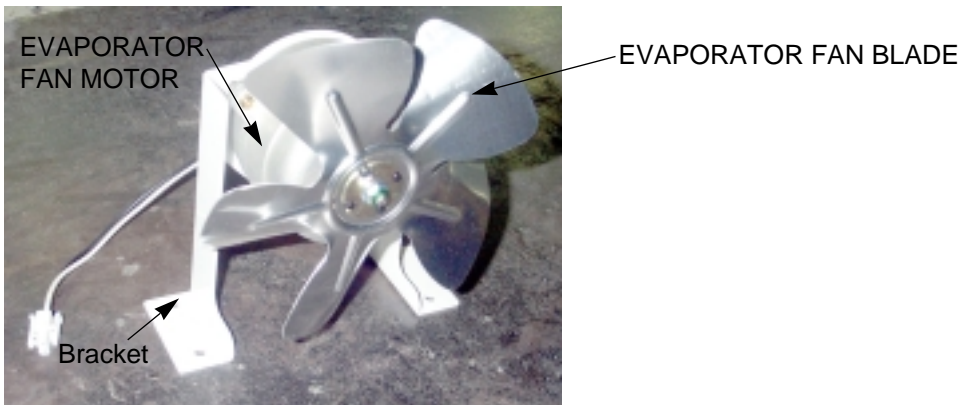


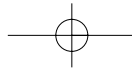
### 3-2. EVAPORATOR FAN MOTOR GUARD



The position of the POWER SWITCH and the THERMOSTAT KNOB can be changed for improvement without notice.

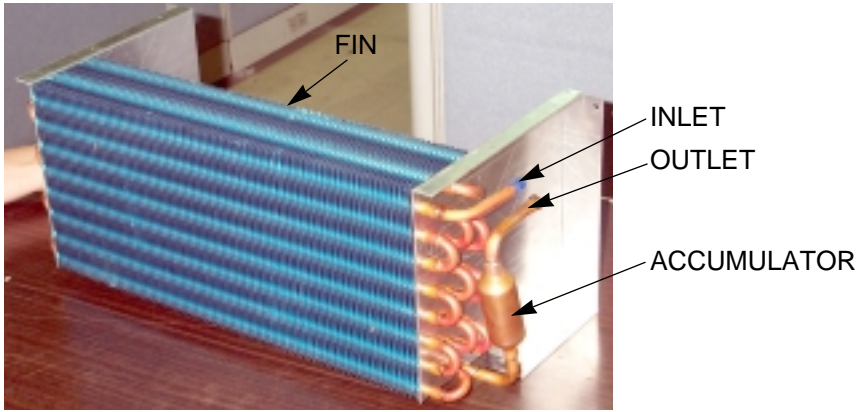
### 3-3. EVAPORATOR FAN MOTOR



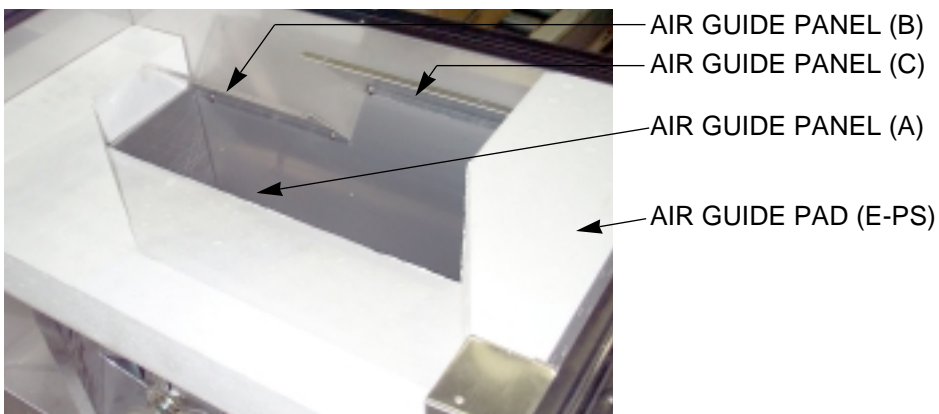


**PART DETAILS**

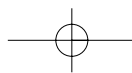
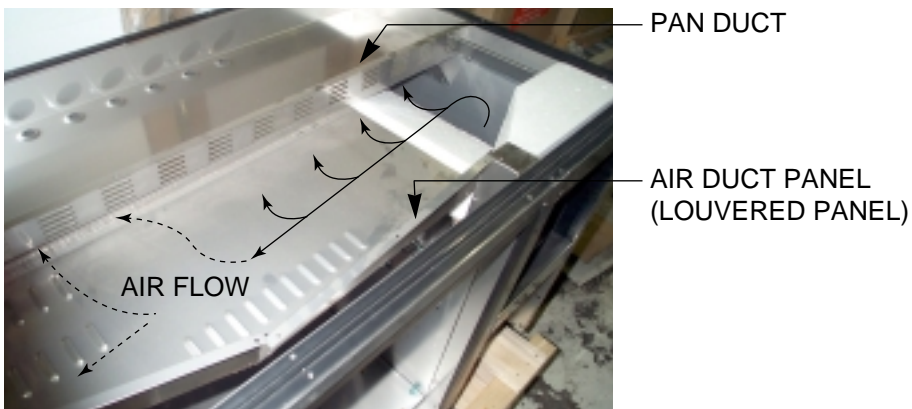
**3-4. EVAPORATOR COIL**

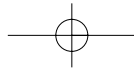


**3-5. AIR GUIDE PANEL & PAD**



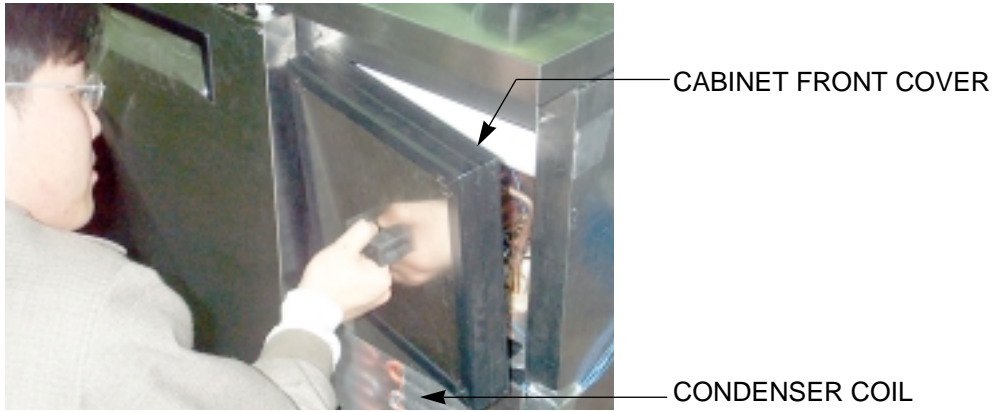
**3-6. DUCT PANEL (INTERIOR)**



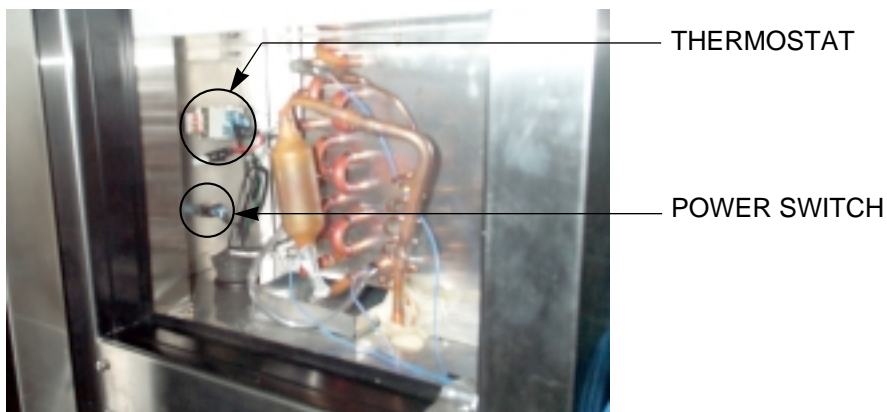


## PART DETAILS

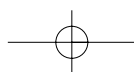
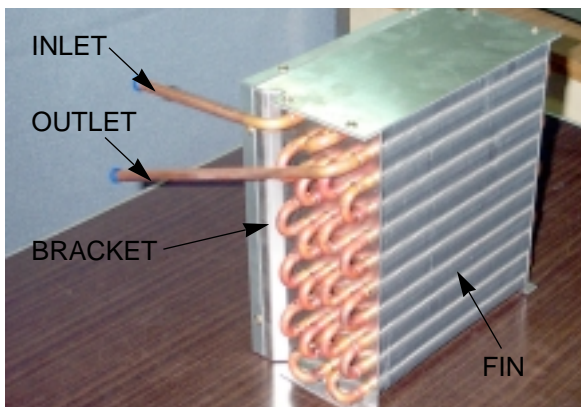
### 3-7. CABINET FRONT COVER

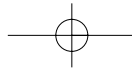


### 3-8. THERMOSTAT & POWER SWITCH



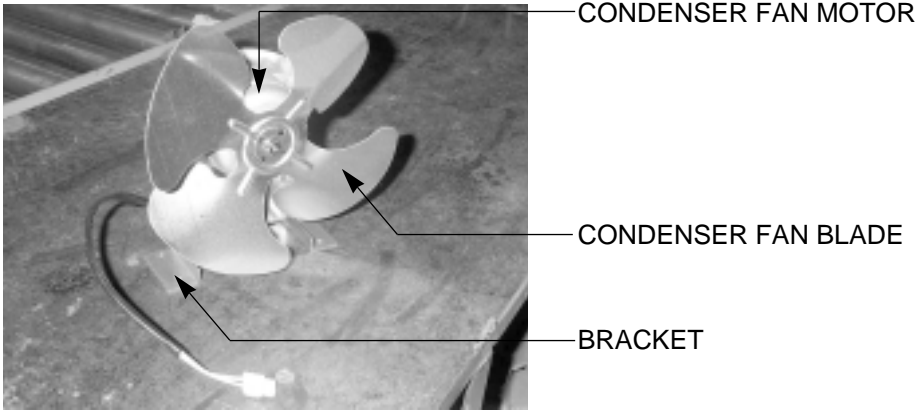
### 3-9. CONDENSER COIL



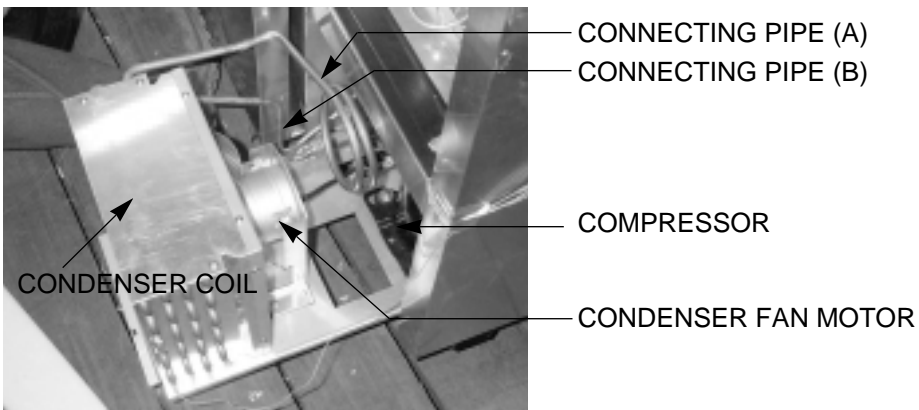


**PART DETAILS**

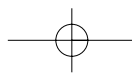
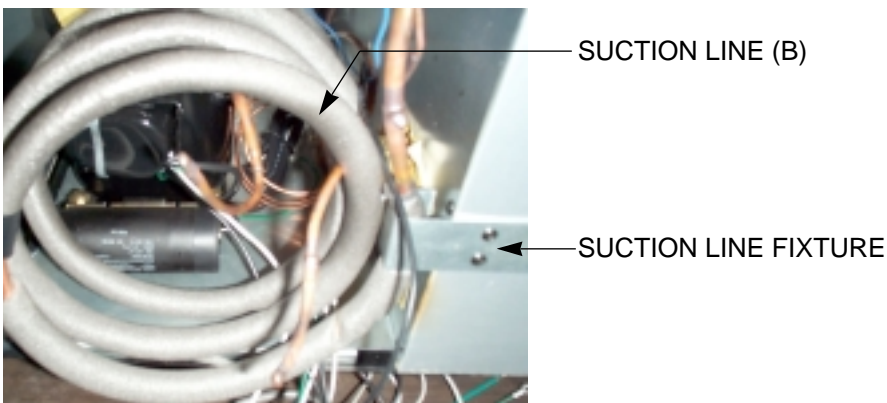
**3-10. CONDENSER FAN MOTOR**

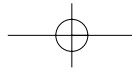


**3-11. COMPRESSOR COMPARTMENT PART (FRONT)**



**3-12. COMPRESSOR COMPARTMENT PART (BACK)**





# 4. MAIN COMPONENTS

## 4-1. COMPRESSOR

MODEL	PART NAME	PART NO.	HORSE POWER	CAPACITY	TYPE OF MOTOR	INPUT	MAKER
TPR-67SD TPR-93SD	T6217Z	3020014570	5/8HP	7,638.4BTU/h (1,925kcal/h)	CSIR	-	EMBRACO

## 4-2. COMPRESSOR RELAY, OVERLOAD

MODEL	RELAY	PART NO.	OVERLOAD	PART NO.	MAKER	NOTE
TPR-67SD TPR-93SD	9660-A-041-191		MRT00AFW-3187	-	EMBRACO	

## 4-3. COMPRESSOR CAPACITOR

MODEL	STARTING	PART NO.	RUNNING	PART NO.	MAKER	NOTE
TPR-67SD TPR-93SD	330V 189~227 $\mu$ F	Comp. Assembly		-	-	-

## 4-4. CONDENSER FAN MOTOR

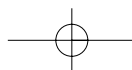
MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (Size)	MAKER
TPR-67SD TPR-93SD	IS4420DWSG-1	3963220410	4P	47W	Shaded Pole Induction	AL ( $\phi$ 225)	SUNG SHIN

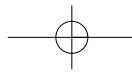
## 4-5. EVAPORATOR FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (Size)	MAKER
TPR-67SD TPR-93SD	IS4420DWSG-1	3963220410	4P	47W	Shaded Pole Induction	AL ( $\phi$ 200)	SUNG SHIN

## 4-6. SWITCH

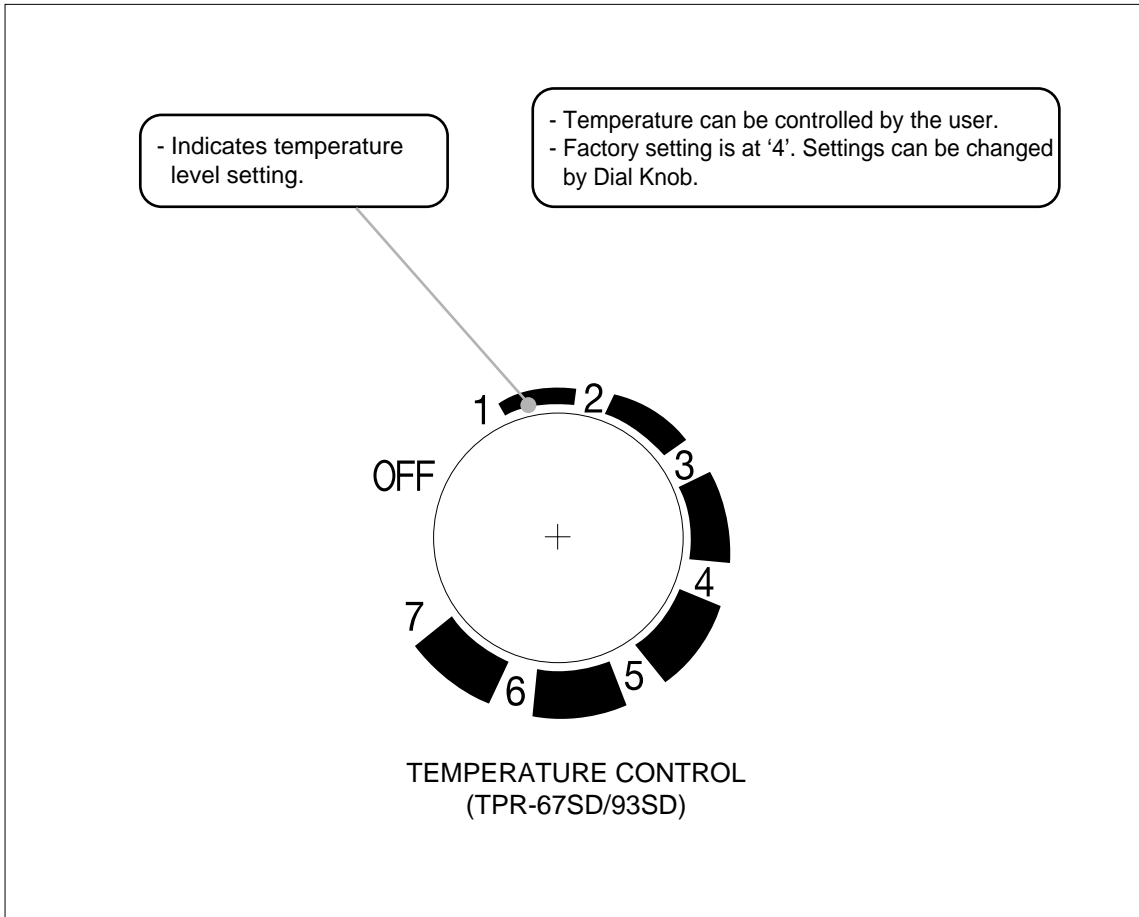
PART NAME	PART NO.	RATING	MAKER
POWER SWITCH (ROCKER SWITCH)	30281Q0100	125V/15A	SKT
THERMOSTAT	32283F0900	GNA-241L, 20A	SHIN HAN





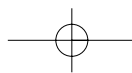
# 5. TEMPERATURE CONTROL INSTRUCTION

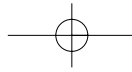
## 5-1. HOW TO USE THE TEMPERATURE CONTROL



## 5-2. FUNCTION TABLE

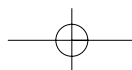
No	Function	Controlled Part	Description												
1	Temperature Control (GNA-241L) Model: TPR-67SD TPR-93SD	Compressor Cond. Fan Motor	1. The temperature can be changed by turning the dial knob. 2. Compressor is automatically turned on and off by thermostat. ■ Cut in and out temperature chart. °F												
			<table border="1"> <thead> <tr> <th>No.</th> <th>1</th> <th>4</th> <th>7</th> </tr> </thead> <tbody> <tr> <td><i>Cut in</i></td> <td></td> <td>40.1 ± 2.7</td> <td></td> </tr> <tr> <td><i>Cut Out</i></td> <td>21.2</td> <td>17.1</td> <td>10.4</td> </tr> </tbody> </table>	No.	1	4	7	<i>Cut in</i>		40.1 ± 2.7		<i>Cut Out</i>	21.2	17.1	10.4
No.	1	4	7												
<i>Cut in</i>		40.1 ± 2.7													
<i>Cut Out</i>	21.2	17.1	10.4												

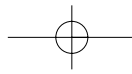




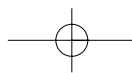
## 6. PARTS-LIST OF PIZZA PREP TABLE

Part name	Code	Description	Model	
			TPR-67SD	TPR-93SD
<b>Caster</b>				
CASTER	30265L0401	TP5040-22-HDP	2	3
CASTER BRAKE	30265L0301	TP5040-22-HDP-TLE	2	3
<b>Door</b>				
DOOR ASSEMBLY(LEFT)	30200P1710	STAINLESS STEEL +URT	1	1
DOOR ASSEMBLY(RIGHT)	30200P1700	STAINLESS STEEL +URT	1	2
DOOR GASKET	30223P0100	PVC-S	2	3
DOOR BUSHING	30207H1000	NA-66	4	6
DOOR SQUARE BUSHING	30207Q0900	POM	4	6
DOOR HINGE TOP(LEFT)	30229P0401	STAINLESS STEEL	1	1
DOOR HINGE TOP(RIGHT)	30229P0501	STAINLESS STEEL	1	2
DOOR HINGE BOTTOM(LEFT)	30229M0302	STAINLESS STEEL	1	1
DOOR HINGE BOTTOM(RIGHT)	30229M0402	STAINLESS STEEL	1	2
DOOR HINGE SPRING	30251M0100	HSW-3	2	3
<b>COMPRESSOR COMPARTMENT</b>				
CONDENSER COIL	30200P2200	Cu	1	1
SUCTION LINE (A)	30244P0302	Cu	1	1
COMPRESSOR BASE	30203P0304	SPG, T2.0	1	1
COMPRESSOR	3020014570	T6217Z (115V / 60Hz)	1	1
POWER CORD	30213A1012	KKP-30	1	1
FRONT GRILLE PANEL	30214P1601	STAINLESS STEEL	1	1
REAR GRILLE	30214P1700	HSWR, BLACK COATING	1	1
COMPRESSOR DRYER	30268L0300	XH-9, Ø3.1	1	1
DRAIN PAN	30211A0202	PP T2.0	1	1
DRAIN PAN HOUSING	30225P0100	SPG, T0.5	1	1
DRAIN HOSE	30232M0210	PVC-S	1	1
CONDENSER FAN MOTOR	3963220410	IS-4420DWSG-1	1	1
CONDENSER FAN BLADE	30218B0100	AL Ø225	1	1
CONNECTING PIPE	30244P0700	CONDENSER AND DRYER	1	1
CONNECTING PIPE (DELIVERY PIPE)	30244P1000	COMP.AND CONDENSER	1	1
CAPILLARY TUBE	30244P0401	ID Ø1.6*T0.6	1	1
SUCTION LINE (B)	30244P0500	OD Ø9.52*T0.8	1	1
COMPRESSOR HARNESS ASSEMBLY	30227P0401		1	1
<b>REFRIGERATION COMPARTMENT</b>				
MULLION COVER	30214P1400	STAINLESS STEEL	1	2
MULLION HEATER	30228M0303	115V / 15W, PVC	1	2
CABINET FRAME HEATER	30228P0103	115V / 30W, PVC	1	-
	3022890200	115V / 40W, PVC	-	1

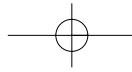




Part name	Code	Description	Model	
			TPR-67SD	TPR-93SD
EVAPORATOR COIL	30270P0102	Cu	1	1
EVAPORATOR DRAIN PAN	30211P0202	AL	1	1
EVAPORATOR FAN MOTOR	3963220410	IS-4420DWSG-1	1	1
EVAPORATOR FAN BLADE	30218B0300	AL, ø200	1	1
EVAPORATOR FAN MOTOR GUARD	30214P2500	HIPS, ø200	1	1
EVAPORATOR FRONT DUCT PANEL	30269P0110	STAINLESS STEEL	1	1
AIR GUIDE PAD	30241P0600	E-PS	1	1
PAN DUCT	30269P0202	STAINLESS STEEL	1	-
	30269P0700	STAINLESS STEEL	-	1
DUCT HOLE COVER	30214P2600	STAINLESS STEEL	-	4
PAN DUCT COVER	30269P0500	AL	1	-
AIR DUCT PANER(LOUVERED PANEL)	30269P0300	STAINLESS STEEL	1	1
THERMOSTAT	30283F0900	GNA-241L	1	1
POWER SWITCH(ROCKER SWITCH)	30281Q0100	125V / 15A, 250V / 8A	1	1
SHELF STANDARD	30220M0300	STAINLESS STEEL	8	12
SHELF CLIP	30220L0900	PA6	20	30
SHELF	30278P0200	STAINLESS STEEL	4	6
PAN	30211P0100	PC T2.5	9	12
HOOD LID (A)- SMALL	30200P3501	LID+LINER+PAD+HINGE	1	2
HOOD LID (B)- LARGE	30200P3601	LID+LINER+PAD+HINGE	1	1
HOOD LID BRACKET LEFT	30206P0600	STAINLESS STEEL T2.0	1	1
HOOD LID BRACKET CENTER	30206P0800	STAINLESS STEEL T2.0	1	2
HOOD LID BRACKET RIGHT	30206P0700	STAINLESS STEEL T2.0	1	1
HOOD LID HANDLE	30226P0100	AL ZnDC	2	3
CUTTING BOARD	30241P1002	LD-PE	1	-
	30241P2300	LD-PE	-	1
CUTTING BOARD BRACKET	30206P1900	STAINLESS STEEL T1.6	2	2
CUTTING BOARD FITTING SCREW	7S105A0564	M5, MFNI	2	2





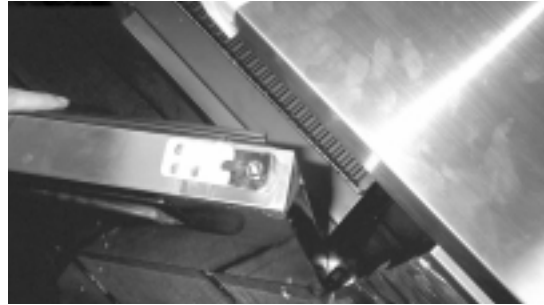


# **7. REPLACEMENT OF MAIN COMPONENTS**

**\* Surely turn the unit off before replacing any part of it!**

## **7-1. REPLACING THE DOOR**

**A. Unscrew the door hinge top.**



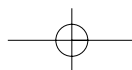
**B. Lift the door. Replace the old one with new. Insert the door hinge top into the door bush. Angle between the door line and the hinge bracket line is 90° as pictures below.**

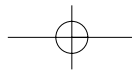


**C. Rotate the door hinge top by 180° cw.**



**\* In case of the left door, replace it symmetrically to pictures above.**

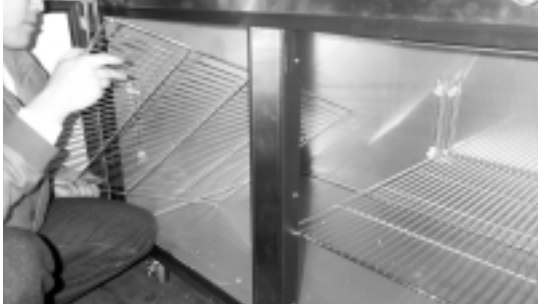




## REPLACEMENT OF MAIN COMPONENTS

### 7-2. REPLACING THE MULLION

**A. Remove all shelves from inside of the unit and unscrew the screws on each side of the mullion.**



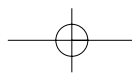
**B. Rip off the mullion cover carefully.**

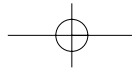


**C. Disconnect the mullion heater and pull out the mullion insulator.**



**D. Unscrew the screws on top and bottom of the mullion. Replace the old one with new.**





## REPLACEMENT OF MAIN COMPONENTS

### 7-3. REPLACING THE CABINET FRAME HEATER

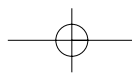
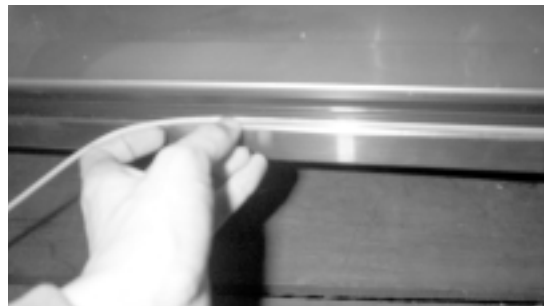
**A. Insert '-' screw driver into the gap between the cabinet frame and the cabinet frame cover.**

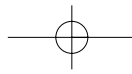


**B. Separate the end of the cabinet frame cover and pull it out continuously to the end of the other side.**



**C. Disconnect the cabinet frame heater from the main harness. Replace the old one with new.**





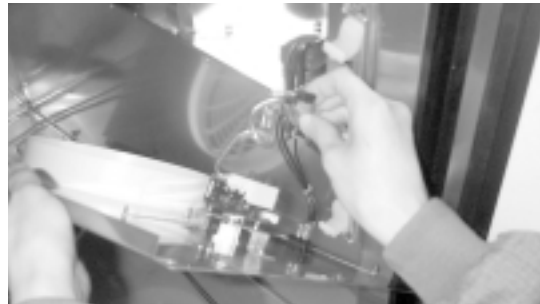
## REPLACEMENT OF MAIN COMPONENTS

### 7-4. REPLACING THE EVAPORATOR FAN MOTOR

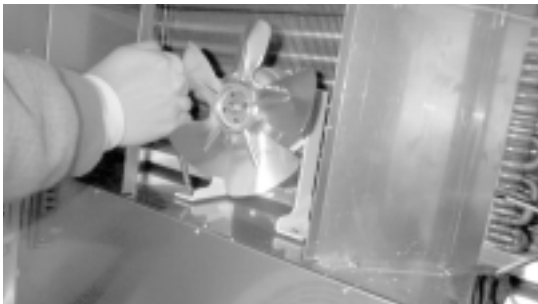
**A. Unscrew the screws on the evaporator front duct panel.**



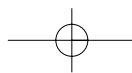
**B. Take it apart and disconnect the thermostat and the power switch from the main harness.**

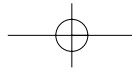


**C. Unscrew the screws on the evaporator fan motor bracket using a short '+' screw driver.**



**D. Disconnect the evaporator fan motor from the main harness. Replace the old one with new.**





## **REPLACEMENT OF MAIN COMPONENTS**

### **7-5. EVAPORATOR LEAK CHECKING**

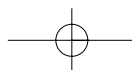
**A. Unscrew a hidden screw at the position as the picture below.**

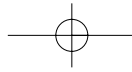


**B. Lift up the front grille panel and pull it out. Cut the silicon off around the cabinet front cover using a knife and pull it out.**



**C. Check leaks of the welded lines of the evaporator coil as the picture below.**





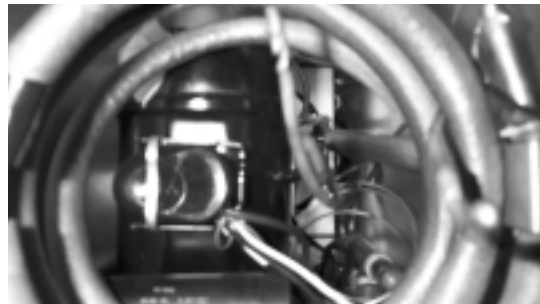
## REPLACEMENT OF MAIN COMPONENTS

### 7-6. REPLACING THE COMPRESSOR COMPARTMENT PART

**A. Unscrew the screws on the compressor base.**

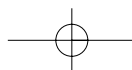
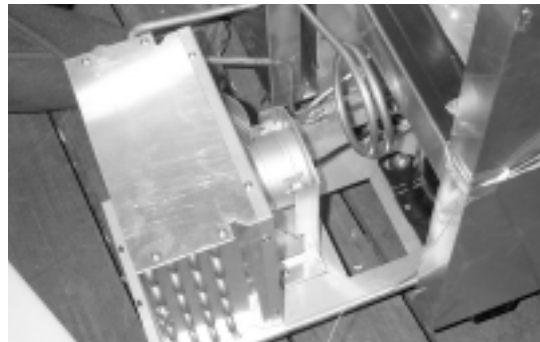


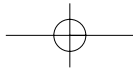
**B. Disconnect the suction line connection by melting it using a torch.**



**C. Check the harness ties and the ground screws. Untie them and unscrew them for safety.**

**Pull the compressor base out carefully and repair the defective cycle parts.**





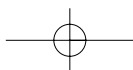
## **REPLACEMENT OF MAIN COMPONENTS**

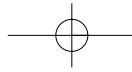
### **7-7. REPLACING THE EVAPORATOR**

**A. Unscrew the screws on the brackets at the each rear corner of the unit as pictures below.**



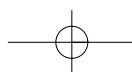
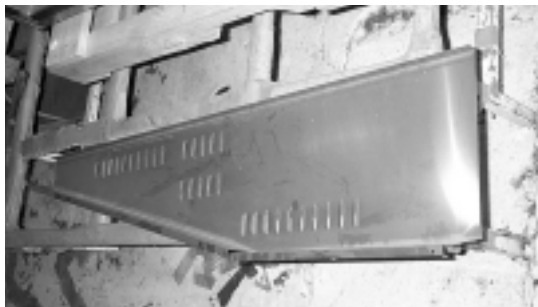
**B. Remove all the shelves from inside of the unit.  
Unscrew the screw on the brackets at the front top position inside of the unit as pictures below.**



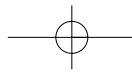


## REPLACEMENT OF MAIN COMPONENTS

- C. Unscrew all the screws on the air duct panel and pull it out carefully.  
 Unscrew all the screws on the pan duct.  
 You can see the black lines around the corner inside top of the unit.  
 Cut the black silicon bonding lines of the counter top.  
 And then, take apart the counter top as the picture below.**

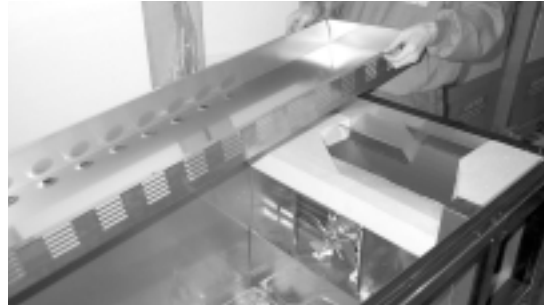
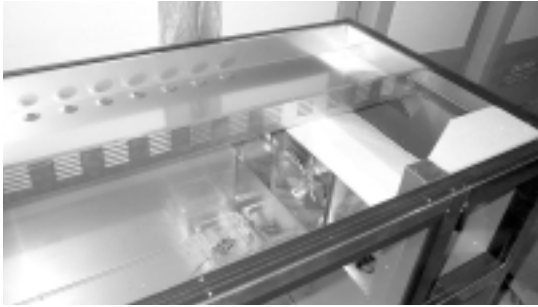




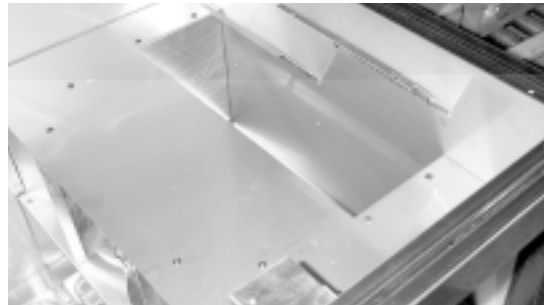
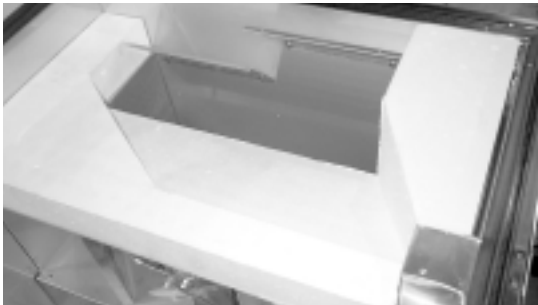


## REPLACEMENT OF MAIN COMPONENTS

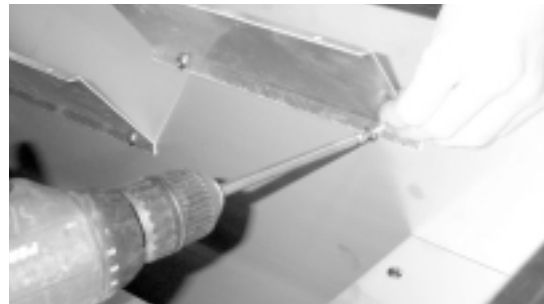
**D. Lift up the pan duct and put it out as the picture below.**



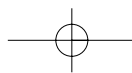
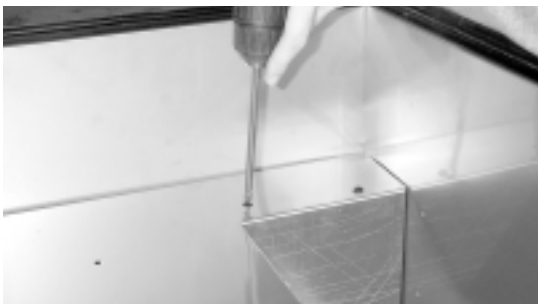
**E. There is a insulator that guides cold air flow into the air duct panel. Pull it out.  
You can see the duct panel which shape is 'C'.**

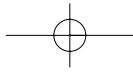


**F. Unscrew the screws on the air guide panel (B) and (C).**



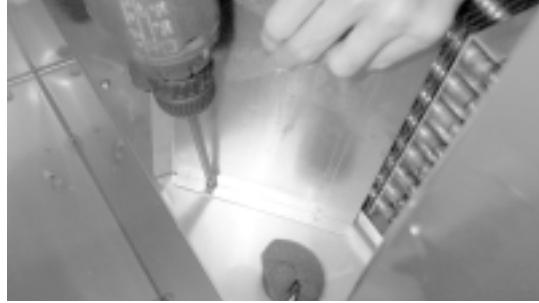
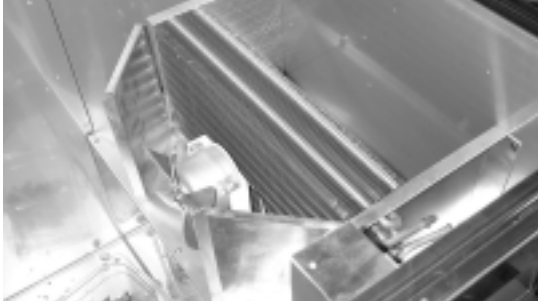
**G. Unscrew the screws on the duct panel and pull it out as the picture below.**



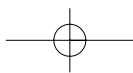
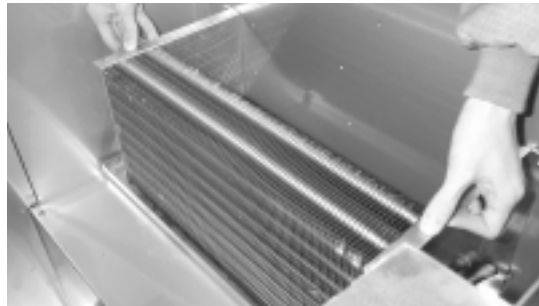


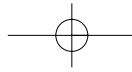
## **REPLACEMENT OF MAIN COMPONENTS**

**H. Unscrew the screws on the duct panels in front of the evaporator.**



**I. Unscrew the screws on the evaporator fan motor bracket and take it apart from the unit. Disassemble the connecting pipe between the evaporator coil and the suction line by melting connections using a torch. Unscrew the screws on the evaporator brackets and take it apart from the unit. Reassemble the new evaporator.**





# ABOUT THIS MANUAL

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