



# **Commercial Refrigerator & Freezer Service Manual**

**Sandwich Salad Unit  
Under counter Refrigerator &  
Freezer**

**Model No.: TUR-28SD  
TUR-48SD  
TST-28SD  
TST-48SD  
TUF-28SD  
TUF-48SD**

# ***TABLE OF CONTENTS***

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## **1. FEATURE CHART**

- 1-1. FRONT VIEW / SIDE VIEW (TUR-28SD)
- 1-2. FRONT VIEW / SIDE VIEW (TUR-48SD)
- 1-3. FRONT VIEW / SIDE VIEW (TST-28SD)
- 1-4. FRONT VIEW / SIDE VIEW (TST-48SD)
- 1-5. FRONT VIEW / SIDE VIEW (TUF-28SD)
- 1-6. FRONT VIEW / SIDE VIEW (TUF-48SD)

## **2. WIRING DIAGRAM**

- 2-1. TUR-28SD
- 2-2. TUR-48SD
- 2-3. TST-28SD
- 2-4. TST-48SD
- 2-5. TUF-28SD
- 2-6. TUF-48SD

## **3. PART DETAILS**

- 3-1. COMPRESSOR COMPARTMENT
- 3-2. DOOR
- 3-3. REFRIGERATION COMPARTMENT

## **4. MAIN COMPONENTS**

## **5. TEMPERATURE CONTROL INSTRUCTION**

- 5-1. HOW TO USE THE TEMPERATURE CONTROL
- 5-2. FUNCTION TABLE

## **6. PART LIST**

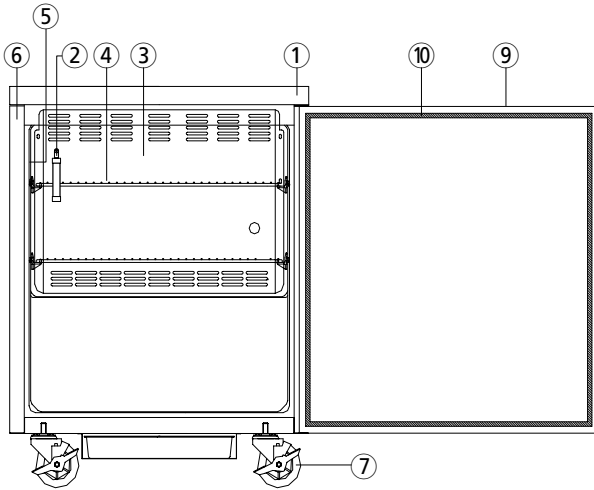
## **7. REPLACEMENT OF MAIN COMPONENTS**

- 7-1. REPLACING DOOR
- 7-2. REFRIGERATION COMPARTMENT PARTS
- 7-3. COMPRESSOR COMPARTMENT PARTS
- 7-4. TERMINAL BOX PARTS
- 7-5. REPLACE DOOR SWITCH AND POWER SWITCH

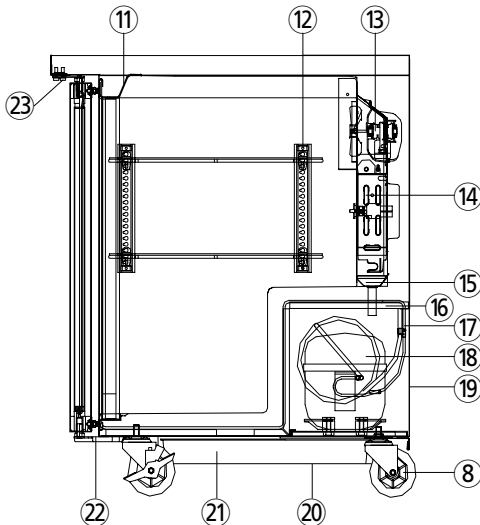
# 1. FEATURE CHART

## 1-1. FRONT VIEW/SIDE VIEW (TUR-28SD)

FRONT VIEW



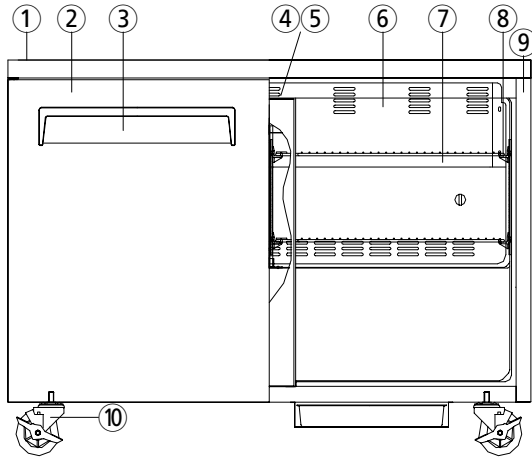
SIDE VIEW



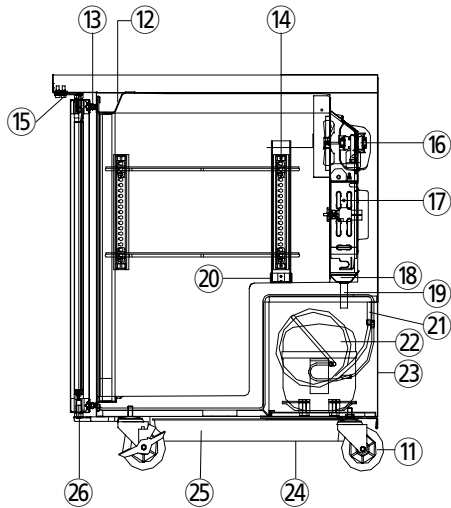
- 1 COUNTER TOP
- 2 THERMOMETER
- 3 LOUVER
- 4 SHELF
- 5 SHELF STANDARD
- 6 CABINET
- 7 CASTOR (with Brake)
- 8 CASTOR
- 9 DOOR
- 10 DOOR GASKET
- 11 LINER
- 12 SHELF CLIP
- 13 EVAPORATOR FAN MOTOR
- 14 EVAPORATOR COIL
- 15 EVAPORATOR DRAIN PAN
- 16 DRAIN HOSE
- 17 SUCTION LINE
- 18 COMPRESSOR
- 19 REAR GRILL
- 20 DRAIN PAN HOUSING
- 21 DRAIN PAN
- 22 DOOR HINGE BOTTOM
- 23 DOOR HINGE TOP

**1-2. FRONT VIEW/SIDE VIEW (TUR-48SD)**

FRONT VIEW



SIDE VIEW

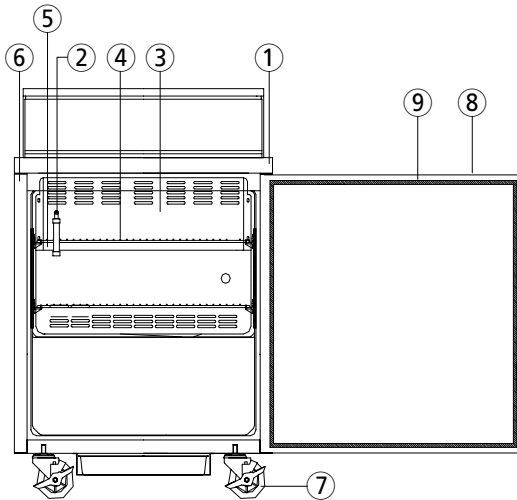


- 1 COUNTER TOP
- 2 DOOR
- 3 DOOR HANDLE
- 4 SUPPORTER MIDDLE (A)
- 5 SUPPORTER MIDDLE (B)
- 6 LOUVER
- 7 SHELF (R)
- 8 SHELF STANDARD
- 9 CABINET
- 10 CASTOR (with Brake)
- 11 CASTOR
- 12 LINER
- 13 DOOR GASKET
- 14 SHELF CLIP
- 15 DOOR HINGE TOP
- 16 EVAPORATOR FAN MOTOR
- 17 EVAPORATOR COIL
- 18 EVAPORATOR DRAIN PAN
- 19 DRAIN HOSE
- 20 SHELF STANDARD RETAINER
- 21 SUCTION LINE
- 22 COMPRESSOR
- 23 REAR GRILL
- 24 DRAIN PAN HOUSING
- 25 DRAIN PAN
- 26 DOOR HINGE BOTTOM

# FEATURE CHART

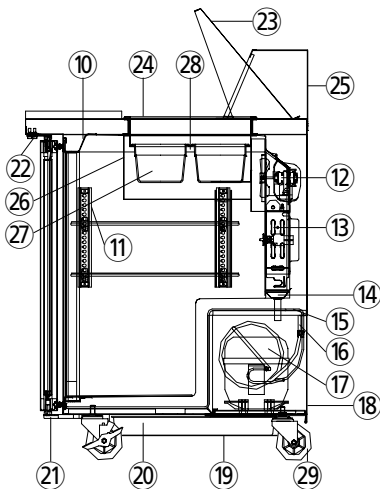
## 1-3. FRONT VIEW/SIDE VIEW (TST-28SD)

FRONT VIEW



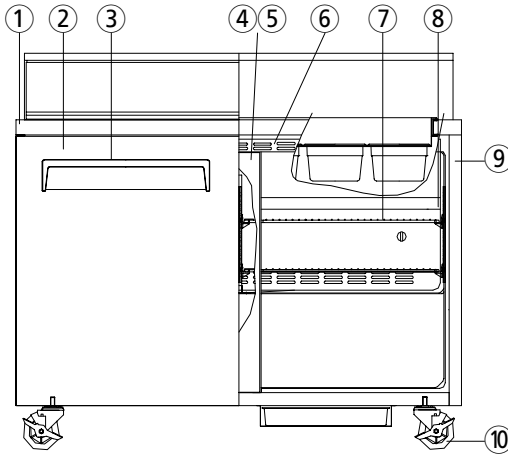
- 1 COUNTER TOP
- 2 THERMOMETER
- 3 LOUVER
- 4 SHELF
- 5 SHELF STANDARD
- 6 CABINET
- 7 CASTOR (with Brake)
- 8 DOOR
- 9 DOOR GASKET
- 10 LINER
- 11 SHELF CLIP
- 12 EVAPORATOR FAN MOTOR
- 13 EVAPORATOR COIL
- 14 EVAPORATOR DRAIN PAN
- 15 DRAIN HOSE
- 16 SUCTION LINE
- 17 COMPRESSOR
- 18 REAR GRILL
- 19 DRAIN PAN HOUSING
- 20 DRAIN PAN
- 21 DOOR HINGE BOTTOM
- 22 DOOR HINGE TOP
- 23 HOOD LID
- 24 PAN SUPPORTER
- 25 HOOD
- 26 PAN DUCT
- 27 PAN
- 28 PAN SUPPORT BAR
- 29 CASTOR

SIDE VIEW

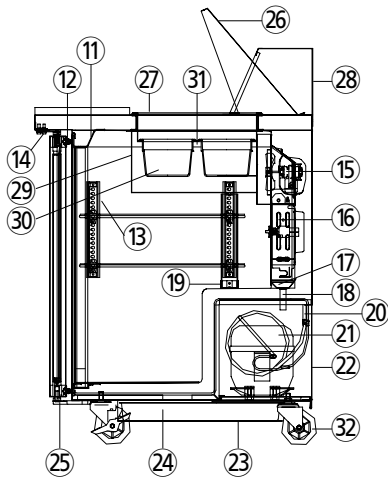


**1-4. FRONT VIEW/SIDE VIEW (TST-48SD)**

FRONT VIEW



SIDE VIEW

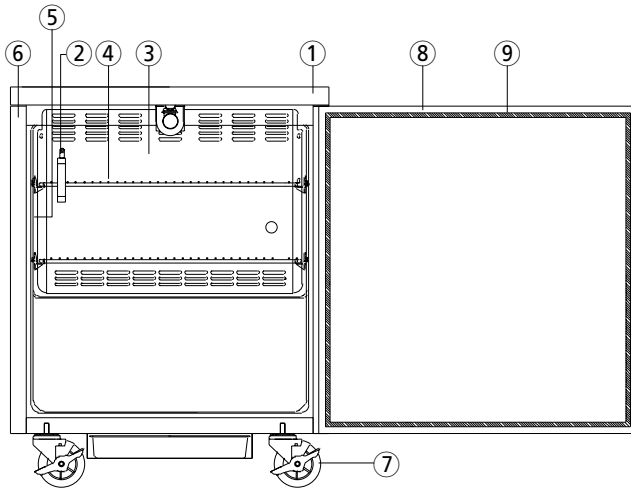


- 1 COUNTER TOP
- 2 DOOR
- 3 DOOR HANDLE
- 4 SUPPORTER MIDDLE (A)
- 5 SUPPORTER MIDDLE (B)
- 6 LOUVER
- 7 SHELF (RIGHT)
- 8 SHELF STANDARD
- 9 CABINET
- 10 CASTOR (with Brake)
- 11 LINER
- 12 DOOR GASKET
- 13 SHELF CLIP
- 14 DOOR HINGE TOP
- 15 EVAPORATOR FAN MOTOR
- 16 EVAPORATOR COIL
- 17 EVAPORATOR DRAIN PAN
- 18 DRAIN HOSE
- 19 SHELF STANDARD RETAINER
- 20 SUCTION LINE
- 21 COMPRESSOR
- 22 REAR GRILL
- 23 DRAIN PAN HOUSING
- 24 DRAIN PAN
- 25 DOOR HINGE BOTTOM
- 26 HOOD LID
- 27 PAN SUPPORTER
- 28 HOOD
- 29 PAN DUCT
- 30 PAN
- 31 PAN SUPPORT BAR
- 32 CASTOR

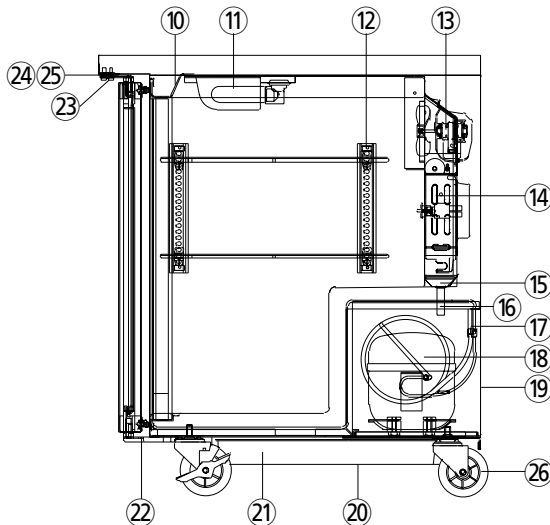
# FEATURE CHART

## 1-5. FRONT VIEW/SIDE VIEW (TUF-28SD)

FRONT VIEW



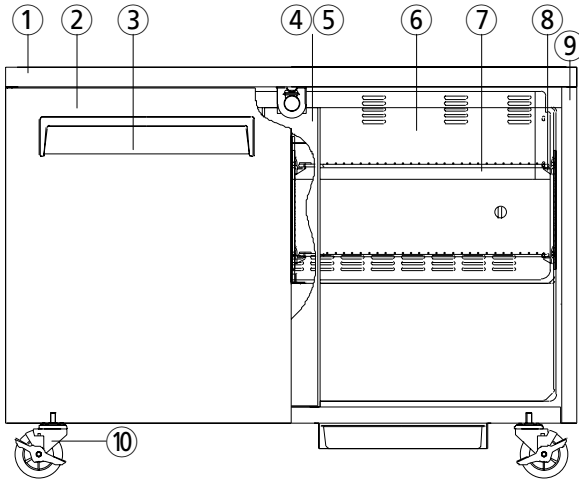
SIDE VIEW



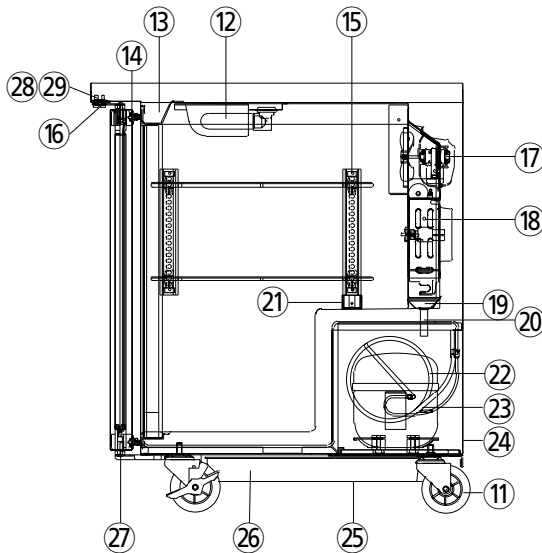
- 1 COUNTER TOP
- 2 THERMOMETER
- 3 LOUVER
- 4 SHELF
- 5 SHELF STANDARD
- 6 CABINET
- 7 CASTOR (with Brake)
- 8 DOOR
- 9 DOOR GASKET
- 10 LINER
- 11 LAMP
- 12 SHELF CLIP
- 13 EVAPORATOR FAN MOTOR
- 14 EVAPORATOR COIL
- 15 EVAPORATOR DRAIN PAN
- 16 DRAIN HOSE
- 17 SUCTION LINE
- 18 COMPRESSOR
- 19 REAR GRILL
- 20 DRAIN PAN HOUSING
- 21 DRAIN PAN
- 22 DOOR HINGE BOTTOM
- 23 DOOR HINGE TOP
- 24 DOOR SWITCH
- 25 POWER SWITCH
- 26 CASTOR

**1-6. FRONT VIEW/SIDE VIEW (TUF-48SD)**

FRONT VIEW



SIDE VIEW

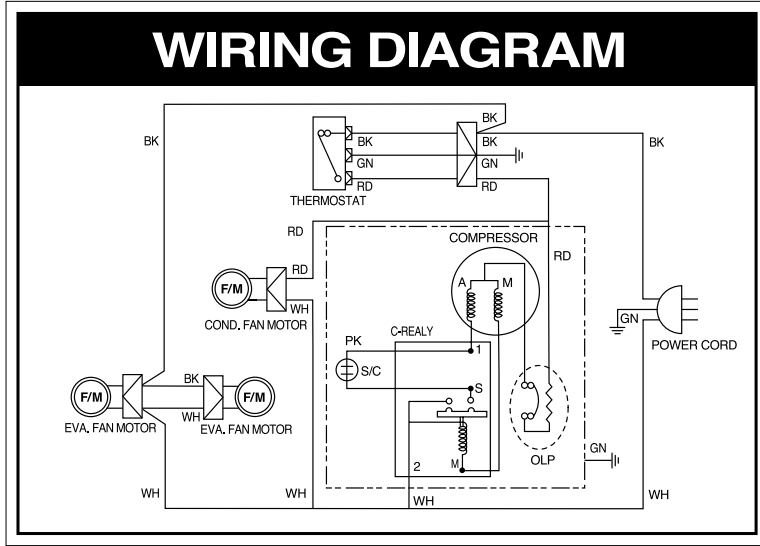


- 1 COUNTER TOP
- 2 DOOR
- 3 DOOR HANDLE
- 4 SUPPORTER MIDDLE (A)
- 5 SUPPORTER MIDDLE (B)
- 6 LOUVER
- 7 SHELF (R)
- 8 SHELF STANDARD
- 9 CABINET
- 10 CASTOR (with Brake)
- 11 CASTOR
- 12 LAMP
- 13 LINER
- 14 DOOR GASKET
- 15 SHELF CLIP
- 16 DOOR HINGE TOP
- 17 EVAPORATOR FAN MOTOR
- 18 EVAPORATOR COIL
- 19 EVAPORATOR DRAIN PAN
- 20 DRAIN HOSE
- 21 SHELF STANDARD RETAINER
- 22 SUCTION LINE
- 23 COMPRESSOR
- 24 REAR GRILL
- 25 DRAIN PAN HOUSING
- 26 DRAIN PAN
- 27 DOOR HINGE BOTTOM
- 28 DOOR SWITCH
- 29 POWER SWITCH

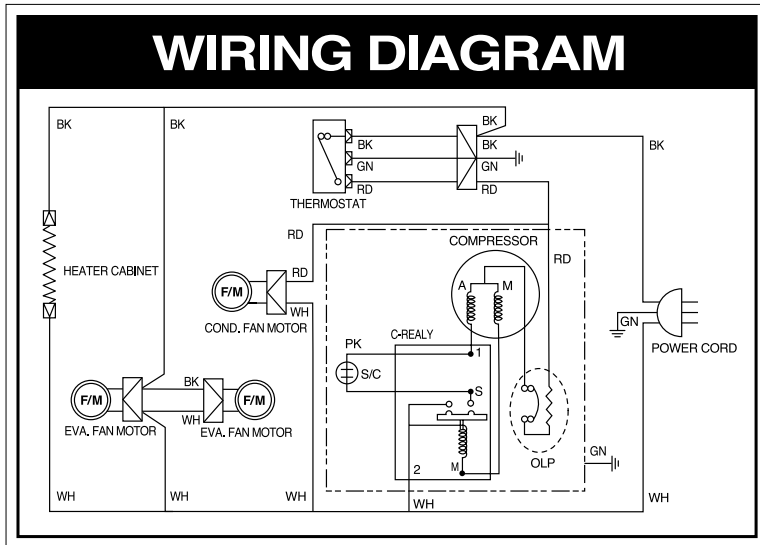


# 2. WIRING DIAGRAMS

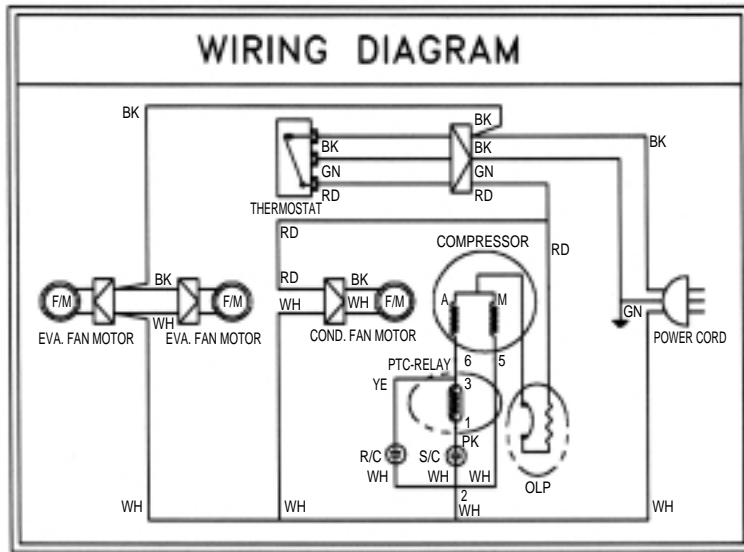
## 2-1. TUR-28SD



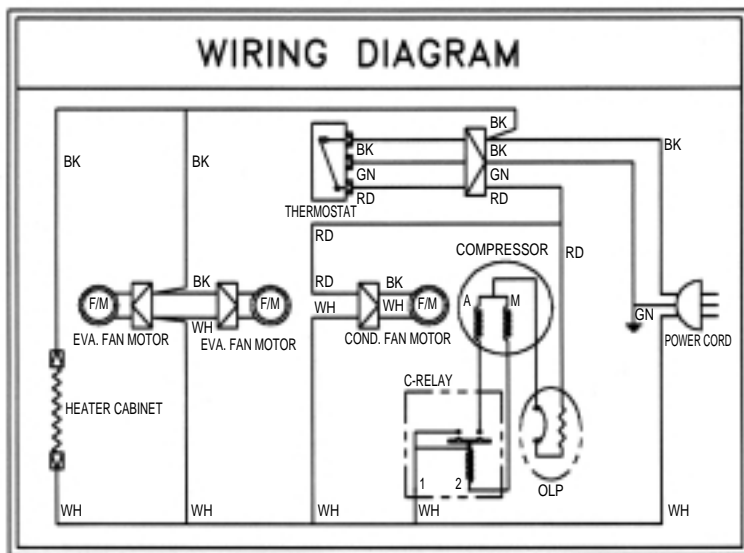
## 2-2. TUR-48SD



**2-3. TST-28SD**

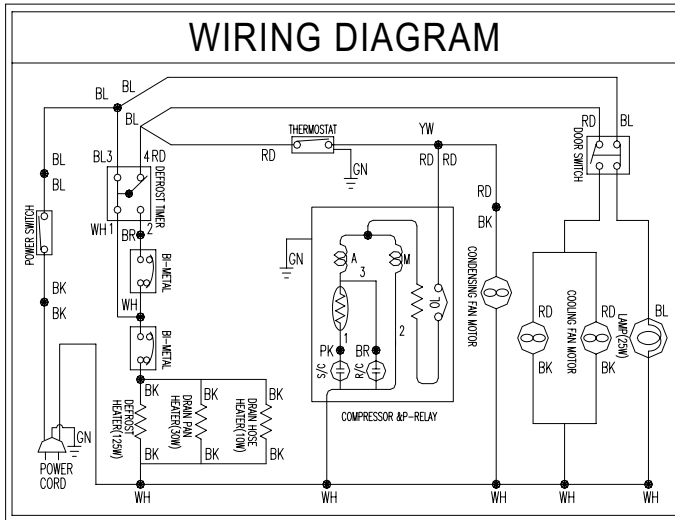


**2-4. TST-48SD**

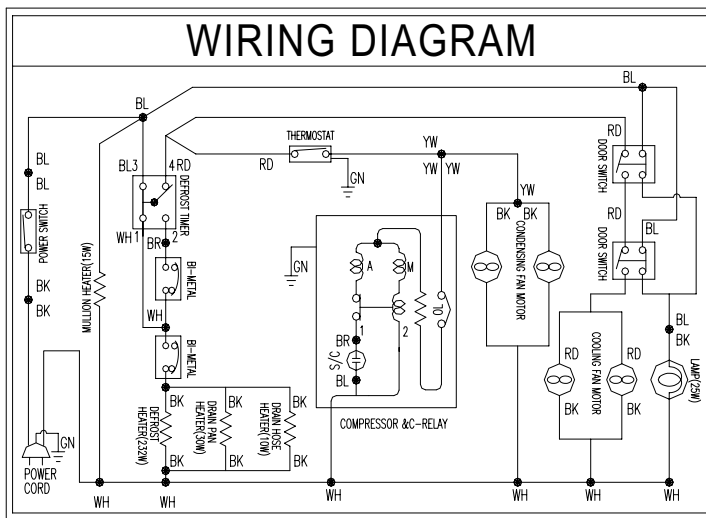


# WIRING DIAGRAMS

## 2-5. TUF-28SD



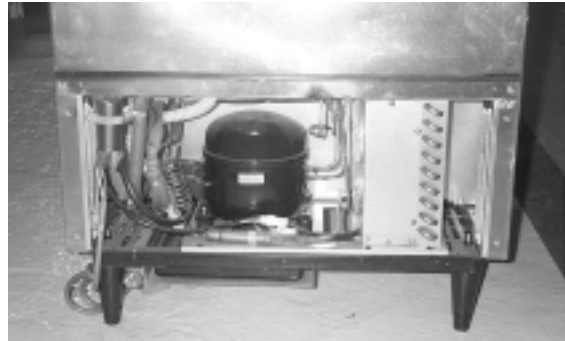
## 2-6. TUF-48SD



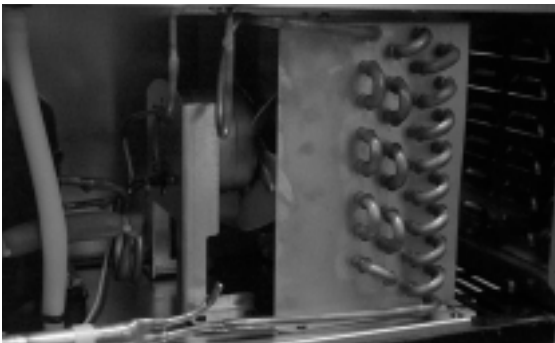
# 3. PART DETAILS

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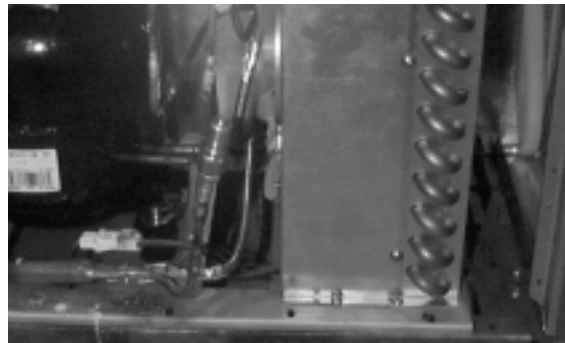
## 3-1. COMPRESSOR COMPARTMENT



**CONDENSING UNIT ASSEMBLY**

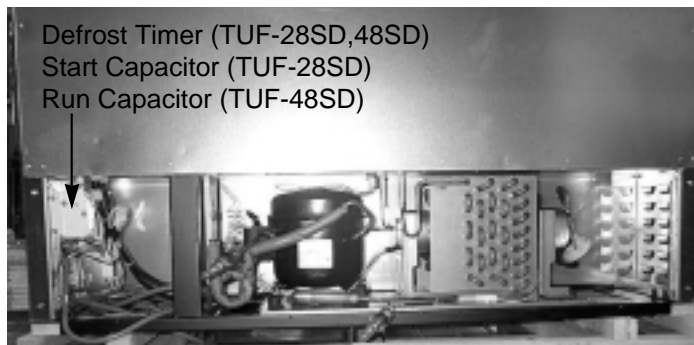


**TST-28SD,48SD**



**TUF-28SD**

**CONDENSER FAN MOTOR ASSEMBLY**

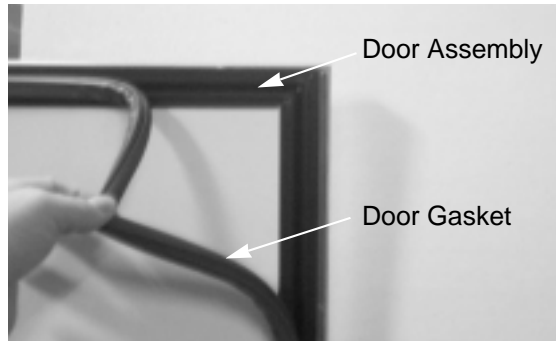


**CONDENSING UNIT ASSEMBLY**

**TUF-48SD**

# 3. PART DETAILS

## 3-2. DOOR

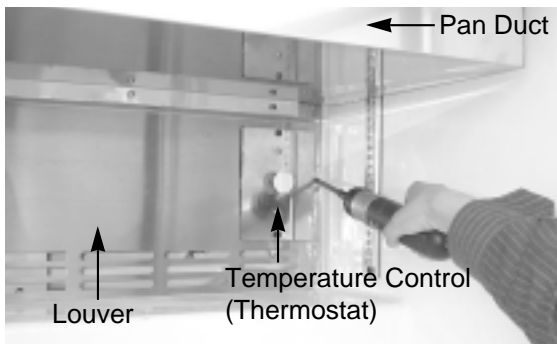


Door Assembly

Door Gasket

**DOOR GASKET**

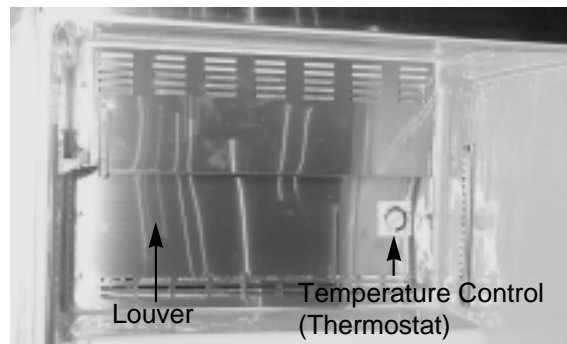
## 3-3. REFRIGERATION COMPARTMENT



Pan Duct

Louver

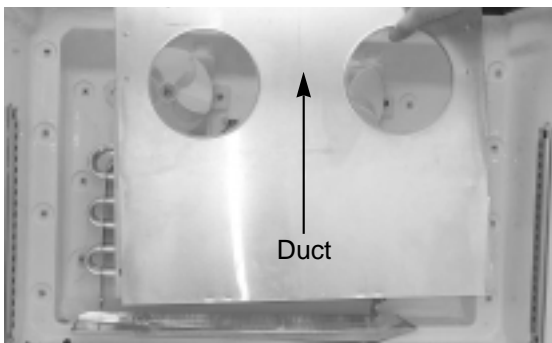
Temperature Control (Thermostat)



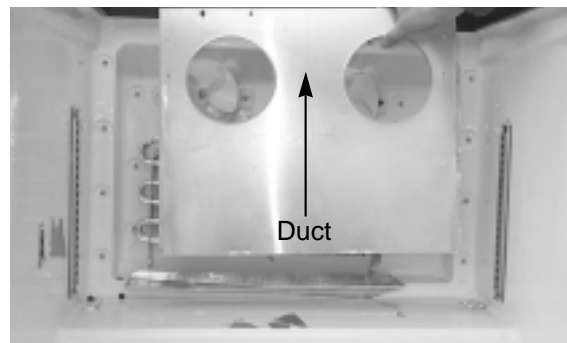
Louver

Temperature Control (Thermostat)

**LOUVER**



Duct

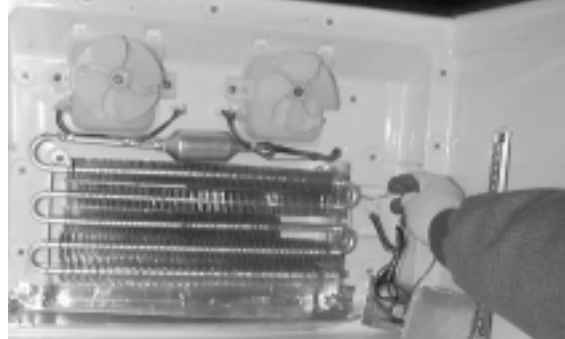
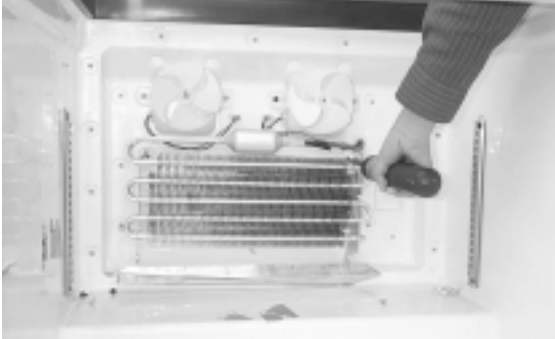


Duct

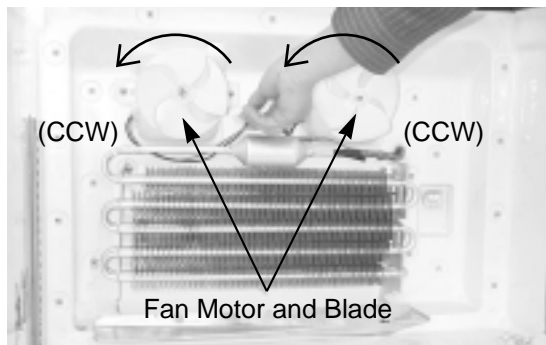
**DUCT**

**TST-28SD,48SD**

**TUR-28SD,48SD  
TUF-28SD,48SD**



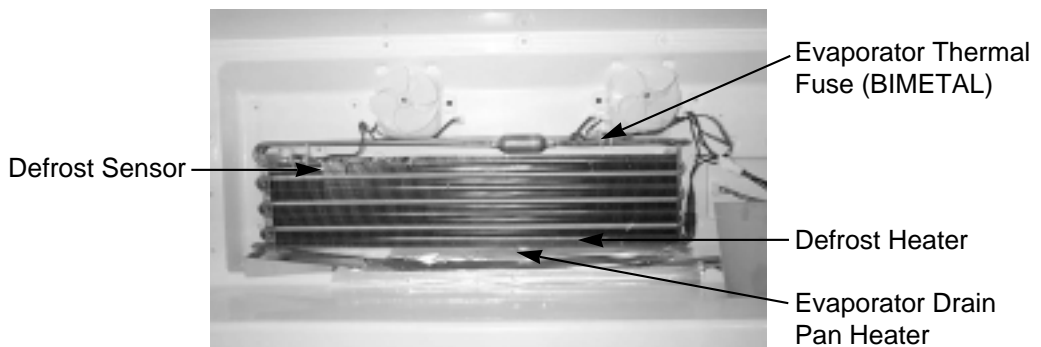
**EVAPORATOR COIL**



**EVAPORATOR COIL FAN MOTOR**

**TST-28SD,48SD**

**TUF-28SD,48SD**



**FREEZER EVAPORATOR COIL**

**TUF-28SD,48SD**

**PART DETAILS**

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**TST-28SD,48SD  
TUF-28SD,48SD**



**TUR-28SD,48SD**

**THERMOSTAT**

# 4. MAIN COMPONENTS

## 1. COMPRESSOR

MODEL	PART NAME	PART NO.	HORSE POWER	CAPACITY	TYPE OF MOTOR	INPUT	MAKER
TUR-28SD TUR-48SD	HCH23YE-1	3957223G10	1/4 HP	773 BTU/h (195 Kcal/h)	CSIR	-	DAEWOO
TST-28SD TUF-28SD	HBL27YE-1	3952127G10	1/3 HP	896 BTU/h (226 Kcal/h)	CSR	-	DAEWOO
TST-48SD	SK6A1C-H2Y	3020014540	1/3 HP	4,288 BTU/h (1,080 Kcal/h)	RSIR	-	SAMSUNG
TUF-48SD	AEZ2415Z	30200N4400	1/3 HP	1,459 BTU/h (368 Kcal/h)	CSIR	-	TECUMSEH (FRANCE)

## 2. COMPRESSOR RELAY, OVERLOAD

MODEL	RELAY	PART NO.	OVERLOAD	PART NO.	MAKER	NOTE
TUR-28SD TUR-48	C-090C	3817910400	4TM-783RHB	3817908600	DAEWOO	
TST-28 TUF-28	S068	3017906900	4TM-783SHB	3817910600	DAEWOO	
TST-48	MTRP0052-02	-	4TM-811XHB	-	SAMSUNG	
TUF-48	3ARR12KP(+479)		MRP24A1K	-	TECUMSEH(FRANCE)	Comp.Assembly

## 3. COMPRESSOR CAPACITOR

MODEL	STARTING	PART NO.	RUNNING	PART NO.	MAKER	NOTE
TUR-28SD TUR-48SD	200V 100 $\mu$ F	401RD35050	-	-	DAEWOO	Comp.Assembly
TST-28SD TUF-28SD	200V 100 $\mu$ F	401RD35050	230V 10 $\mu$ F	100EL15130	DAEWOO	
TST-48SD	-	-	-	-	-	
TUF-48SD	160V 250 $\mu$ F	-	-	-	TECUMSEH(FRANCE)	Comp.Assembly

## 4. CONDENSER FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (NUMBER)	MAKER
TUR-28SD TUR-48SD TST-28SD TST-48SD TUF-28SD TUF-48SD	IS-4420DWSN-2A	3963328120	4P	47W	Shaded Pole Induction	AL 5	SUNGSHIN



## MAIN COMPONENTS

### 5. EVAPORATOR FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (NUMBER)	MAKER
TUR-28SD TUR-48SD TST-28SD TST-48SD TUF-28SD	DAI6152DEB	3963228120	2P		Shaded Pole Induction	NA-66 4	DAEYOUNG

### 6. DEFROST HEATER

MODEL	PART NAME	PART NO.	SPEC.	MAKER
TUF-28SD TUF-48SD	SHEATHED HEATER	30228M2002 30228M2102	300W 450W	SANGDO

### 7. LAMP BULB

MODEL	PART NAME	PART NO.	NUMBER	WATTS	CURRENT	TYPE	MAKER
TUF-28SD TUF-48SD	120V/60Hz	302236L0100	1	25W	-	-	-

### 8. POWER SWITCH (ROCKER SWITCH)

MODEL	TYPE	PART NO.	RATING	MAKER
TUF-28SD TUF-48SD	POWER SWITCH	30281A0600	125V/6A	DAESUNG

### 9. TEMPERATURE CONTROL (THERMOSTAT)

MODEL	PART NAME	PART NO.	SPEC.	MAKER
TUR-28SD TUR-48SD	GNF-105D-01A	30283M0300	NORMAL	SHINHAN
TST-28SD	GNF-105D-04A	30283M0400	NORMAL	SHINHAN
TST-48SD	GNF-105D-01A	30283M0500	NORMAL	SHINHAN
TUF-28SD TUF-48SD	GNF-106D-06A	30283D0700	NORMAL	SHINHAN

### 10. DEFROST TIMER

MODEL	TYPE	PART NO.	DEFROST CYCLE	MAKER
TUF-28SD TUF-48SD	TMDE807UB9	30281M0210	8 HOURS	SCD

### 11. DEFROST SENSOR

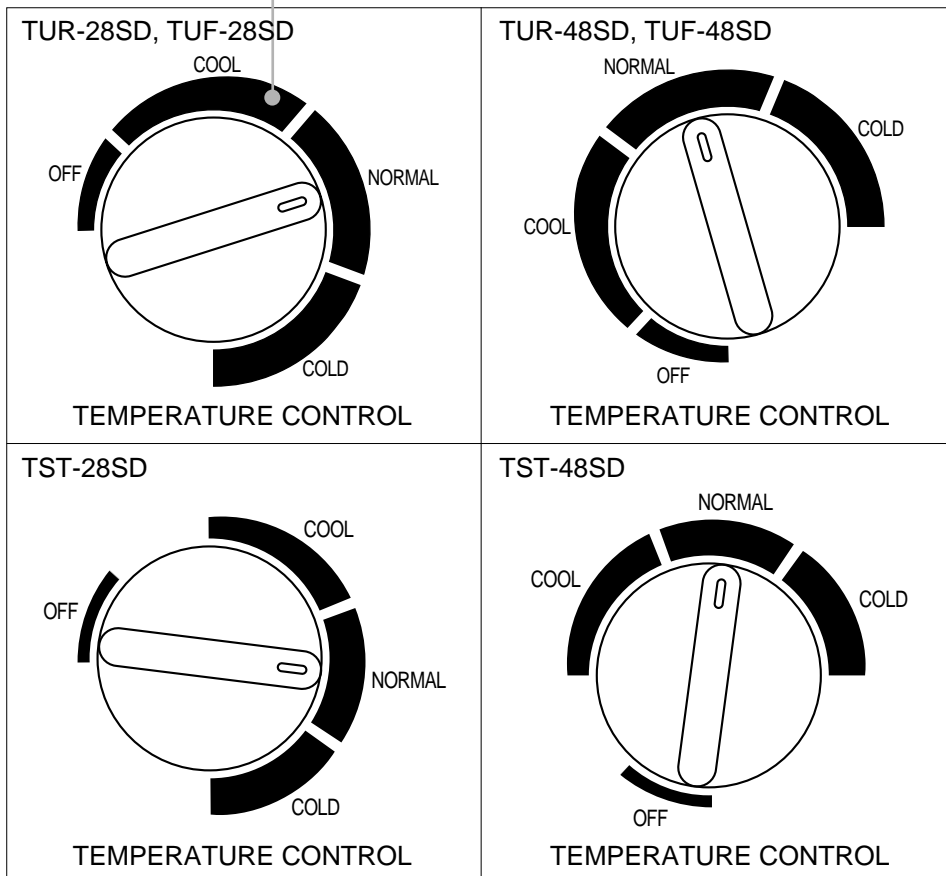
MODEL	TYPE	PART NO.	DEFROST CYCLE	MAKER
TUF-28SD TUF-48SD	PST3A	3018121300	OPEN 48.2 ± 6°F	PACIFIC

# 5. TEMPERATURE CONTROL INSTRUCTIONS

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

- Indicates temperature level setting.

- Temperature can be controlled by the user.  
- Factory setting is at 'NORMAL'. Settings can be changed by Dial Knob.



## CONTROLLER INSTRUCTIONS

### 5-2. FUNCTION TABLE

No	Function	Controlled Part	Description																		
1-1	Temperature Control (GNF-105D-01A) Model: TUR-28SD TUR-48SD TST-48SD	Compressor Evap. Fan Motor Cond. Fan Motor	<p>1. The temperature can be changed by turning the dial knob. 2. Compressor is automatically turned on and off by thermostat.</p> <p>■ Cut in and out temperature chart.</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Cool</th> <th>Normal</th> <th>Cold</th> </tr> </thead> <tbody> <tr> <td><b>Cut in</b></td> <td>41</td> <td>38.3</td> <td>36.5</td> </tr> <tr> <td><b>Cut Out</b></td> <td>19.4</td> <td>15.8</td> <td>13.1</td> </tr> </tbody> </table>	No.	Cool	Normal	Cold	<b>Cut in</b>	41	38.3	36.5	<b>Cut Out</b>	19.4	15.8	13.1						
No.	Cool	Normal	Cold																		
<b>Cut in</b>	41	38.3	36.5																		
<b>Cut Out</b>	19.4	15.8	13.1																		
1-2	Temperature Control (GNF-105D-04A) Model: TST-28SD	Compressor Evap. Fan Motor Cond. Fan Motor	<p>1. The temperature can be changed by turning the dial knob. 2. Compressor is automatically turned on and off by thermostat.</p> <p>■ Cut in and out temperature chart.</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Cool</th> <th>Normal</th> <th>Cold</th> </tr> </thead> <tbody> <tr> <td><b>Cut in</b></td> <td>41</td> <td>38.3</td> <td>36.5</td> </tr> <tr> <td><b>Cut Out</b></td> <td>16.7</td> <td>13.1</td> <td>9.5</td> </tr> </tbody> </table>	No.	Cool	Normal	Cold	<b>Cut in</b>	41	38.3	36.5	<b>Cut Out</b>	16.7	13.1	9.5						
No.	Cool	Normal	Cold																		
<b>Cut in</b>	41	38.3	36.5																		
<b>Cut Out</b>	16.7	13.1	9.5																		
1-3	Temperature Control (GNF-106D-06A) Model: TUF-28SD,48SD	Compressor Cond. Fan Motor	<p>1. The temperature can be changed by turning the dial knob. 2. Compressor is automatically turned on and off by thermostat.</p> <p>■ Cut in and out temperature chart.</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Cool</th> <th>Normal</th> <th>Cold</th> </tr> </thead> <tbody> <tr> <td><b>Cut in</b></td> <td>3°F</td> <td>-1°F</td> <td>-3°F</td> </tr> <tr> <td><b>Cut Out</b></td> <td>-9.5°F</td> <td>-13°F</td> <td>-15°F</td> </tr> </tbody> </table> <p>3. When the door opened, the evaporator fan motor stop and lamp turn on.</p>	No.	Cool	Normal	Cold	<b>Cut in</b>	3°F	-1°F	-3°F	<b>Cut Out</b>	-9.5°F	-13°F	-15°F						
No.	Cool	Normal	Cold																		
<b>Cut in</b>	3°F	-1°F	-3°F																		
<b>Cut Out</b>	-9.5°F	-13°F	-15°F																		
2	Defrost Function (Off Cycle) Model: TUR-28SD TUR-48SD TST-28SD TST-48SD	Compressor Evap. Fan Motor Cond. Fan Motor	<p>1. Defrost function is not in this model. 2. When the compressor is turned off, the 'natural defrost function' is started.</p> <p>■ Natural defrost step</p> <table border="1"> <thead> <tr> <th>Comp</th> <th>EVA.-fan</th> <th>CON-fan</th> </tr> </thead> <tbody> <tr> <td>Off</td> <td>On</td> <td>Off</td> </tr> </tbody> </table>	Comp	EVA.-fan	CON-fan	Off	On	Off												
Comp	EVA.-fan	CON-fan																			
Off	On	Off																			
3	Defrost Function Model: TUF-28SD TUF-48SD	Compressor Evap. Fan Motor Cond. Fan Motor	<p>1. If it reaches defrost cycle time, the defrost heater comes on. 2. Defrost function terminates when D-sensor's temperature gets to above 48.2°F (9°C). 3. Defrost step</p> <table border="1"> <thead> <tr> <th></th> <th>Defrost</th> <th>Pause</th> </tr> </thead> <tbody> <tr> <td><b>Comp</b></td> <td>Off</td> <td>Off</td> </tr> <tr> <td><b>F-fan</b></td> <td>Off</td> <td>Off</td> </tr> <tr> <td><b>C-fan</b></td> <td>Off</td> <td>Off</td> </tr> <tr> <td><b>Heater</b></td> <td>On</td> <td>Off</td> </tr> <tr> <td><b>Max time</b></td> <td>-</td> <td>9 min</td> </tr> </tbody> </table>		Defrost	Pause	<b>Comp</b>	Off	Off	<b>F-fan</b>	Off	Off	<b>C-fan</b>	Off	Off	<b>Heater</b>	On	Off	<b>Max time</b>	-	9 min
	Defrost	Pause																			
<b>Comp</b>	Off	Off																			
<b>F-fan</b>	Off	Off																			
<b>C-fan</b>	Off	Off																			
<b>Heater</b>	On	Off																			
<b>Max time</b>	-	9 min																			

# 6. PARTS LIST FOR SALAD & UNDERCOUNTER MODEL

Part name	Part Code	Description	Model					
			TST-28	TST-48	TUR-28	TUR-48	TUF-28	TUF-48
<b>Cabinet</b>								
CABINET ASSEMBLY	30200M0300		1				1	
CABINET ASSEMBLY	30203M0100			1				1
CABINET ASSEMBLY	30200M3200				1			
CABINET ASSEMBLY	30200M3300					1		
CASTOR	30265L0300	WITH BRAKE	2	2	2	2	2	2
CASTOR	30265L0400		2	2	2	2	2	2
<b>Door</b>								
DOOR ASSEMBLY	30200M1100	STS+URT	1		1		1	
DOOR ASSEMBLY(LEFT)	30200M1000	STS+URT		1		1		1
DOOR ASSEMBLY(RIGHT)	30200M1100	STS+URT		1		1		1
DOOR GASKET	30223M0100	PVC-S		2		2		2
DOOR GASKET	30223M0200	PVC-S	1		1		1	
BUSHING BOTTOM	30207H1000	NA-66	2	4	2	4	2	4
DOOR HINGE TOP ASSEMBLY(L)	30229M0100	STS304		1		1		1
DOOR HINGE TOP ASSEMBLY(R)	30229M0200	STS304	1	1	1	1	1	1
DOOR HINGE BOTTOM ASSEMBLY(L)	30229M0300	STS304		1		1		1
DOOR HINGE BOTTOM ASSEMBLY(R)	30229M0400	STS304	1	1	1	1	1	1
DOOR HINGE SPRING	30251M0100	HSW-3 / ø 0.102" (Diameter)	1	2	1	2	1	2
<b>COMPRESSOR COMPARTMENT</b>								
CONDENSER COIL	30200M7200	CU	1					
CONDENSER COIL	30200M7300	CU		1				1
CONDENSER COIL	30200M3100	CU			1	1	1	
SUCTION LINE	30200M7000	CU	1					
SUCTION LINE	30200M7100	CU		1				
SUCTION LINE	30266M1200	CU				1		
SUCTION LINE	30244M3001	CU			1		1	
SUCTION LINE	30224M3101	CU						1
COMPRESSOR BASE	30203M3302						1	
COMPRESSOR BASE	30203M1800							1
COMPRESSOR BASE	30203M1010	SBHG / 0.063"(Thickness)				1		
COMPRESSOR BASE	30203M1610	SBHG / 0.063"(Thickness)	1					
COMPRESSOR BASE	30203M1710	SBHG / 0.063" (Thickness)		1				
COMPRESSOR RUN CAPACITOR	400EL15130	230V/10µF	1				1	

## PARTS LIST FOR SALAD & UNDERCOUNTER MODEL

Part name	Part Code	Description	Model					
			TST-28	TST-48	TUR-28	TUR-48	TUF-28	TUF-48
COMPRESSOR START CAPACITOR	401RD35050	230V/100µF	1		1	1	1	
DRAIN PAN	30211A0202	HIPS	1	1	1	1	1	1
CONDENSER FAN MOTOR HARNESS	30227M1610		1		1			
CONDENSER FAN MOTOR HARNESS	30227M1710			1		1		
CONDENSER FAN MOTOR BRACKET	30206M0100	SPG / 0.039" (Thickness)			4	4		
COMPRESS CUSHION RUBBER	4034E29060	NR	4	4	4	4	4	4
COMPRESSOR	3020014540	SK6A1C-H2Y		1				
COMPRESSOR	3952127G10	HBL27YE-1	1				1	
COMPRESSOR	3957223G10	HCH23YE-1-N			1	1		
COMPRESSOR	30200N4400	AEZ2415Z						1
POWER CORD	30213A1001	125V/15A	1	1	1	1	1	1
REAR GRILL	30214M3700	SWRM-B / ø 0.079" (Diameter)	1		1		1	
REAR GRILL	30214M3800	SWRM-B / ø 0.079" (Diameter)		1		1		1
COMPRESSOR DRYER	30236M0200	XH-9 / 30g					1	1
COMPRESSOR DRYER	30268M0200	XH-9 / 30g	1	1	1	1		
DOOR GASKET BASE	30222M0900	PVC-S	1		1		1	
DOOR GASKET BASE	30222M1000	PVC-S		1		1		1
DRAIN PAN HOUSING	30225M0800	SBHG / 0.039" (Thickness)	1	1			1	
DRAIN PAN HOUSING	30225M0500	SBHG / 0.039" (Thickness)			1	1		1
DRAIN HOSE	3023200200	PVC-S / 15.75"	1	1			1	
DRAIN HOSE	30232M0210	PVC-S			1	1		1
CONDENSER FAN MOTOR	3963328120	4420DSN-2A	1	1	1	1	1	1
CONDENSER FAN BLADE	30218F0200	AL / ø 6.890" (Diameter)	1	1	1	1	1	2
CONNECTING PIPE	30244A0501	DUCT1		1				
CAPILIARY TUBE(B)	30266M1000	DUCT1		1				
CONNECTING PIPE (HOT PIPE AND COMPRESSOR)	30266M1200	DUCT1	1			1		
CONNECTING PIPE (HOT PIPE AND COMPRESSOR)	30266M1300	DUCT1		1				
CONNECTING PIPE (SUCTION(B) AND COMPRESSOR)	30266M3000	DUCT1			1		1	
CONNECTING PIPE (COMPRESSOR AND CONDENSER)	30266M3403	DUCT1			1	1	1	1
CONNECTING PIPE (HOT PIPE AND CONDENSER)	30266M0600	DUCT1			1	1		
CONNECTING PIPE (HOT PIPE AND CONDENSER)	30244M1600	DUCT1	1	1				

## PARTS LIST FOR SALAD & UNDERCOUNTER MODEL

Part name	Part Code	Description	Model					
			TST-28	TST-48	TUR-28	TUR-48	TUF-28	TUF-48
THERMO-SENSER INSERTING TUBE	30244M1901	DUCT1	1	1	1	1		
COMPRESSOR HARNESS ASSEMBLY	30227M1610	783RHBZZ-52,S090	1		1			
COMPRESSOR HARNESS ASSEMBLY	30227M1710	783RHBZZ-52,S090		1		1		
COMPRESSOR HARNESS ASSEMBLY	30227M2302	Including Harness					1	
COMPRESSOR HARNESS ASSEMBLY	30227M2401	Including Harness						1
<b>REFRIGERATION COMPARTMENT</b>								
CUTTING BOARD	30241M0033	LD-PE / 0.49" (Thickness)	1					
CUTTING BOARD	30241M0043	LD-PE / 0.49" (Thickness)		1				
MULLION HEATER	30228M0300	15W		1		1		1
CUSHION SPACER	3021500500	NR	2	2	2	2	2	2
DUCT	30269M0103	AL / 0.024" (Thickness)			1			
DUCT	30269M0303	AL / 0.024" (Thickness)				1		
DUCT	30269M0604	AL / 0.024" (Thickness)	1				1	
DUCT	30269M0702	AL / 0.024" (Thickness)		1				
DUCT	30269M0800	AL / 0.024" (Thickness)						1
PAN DUCT	30269M0402	SUS304-2B / 0.024" (Thickness)	1					
PAN DUCT	30269M0503	SUS304-2B / 0.024" (Thickness)		1				
EVAPORATOR FAN BLADE	3011802400	CCW / ø4.33" (Diameter)	2	2	2	2	2	2
EVAPORATOR FAN MOTOR HOUSING(B)	4017Z32244	ABS	2	2	2	2	2	2
EVAPORATOR FAN MOTOR HOUSING(C)	4017Z32233	ABS	2	2	2	2	2	2
DUCT FIXTURE(F)	30220M0800	STS304	2	2				
LOUVER FIXTURE LEFT	30220M0400	SUS304-2B / 0.024" (Thickness)			1			
LOUVER FIXTURE LEFT	30220M0700	SUS304-2B / 0.024" (Thickness)				1		
LOUVER FIXTURE LEFT	30220M2500	SUS304-2B / 0.024" (Thickness)	1					
LOUVER FIXTURE LEFT	30220M2700	SUS304-2B / 0.024" (Thickness)		1				
LOUVER FIXTURE RIGHT	30220M0500	SUS304-2B / 0.024" (Thickness)			1			
LOUVER FIXTURE RIGHT	30220M0600	SUS304-2B / 0.024" (Thickness)				1		
LOUVER FIXTURE RIGHT	30220M2600	SUS304-2B / 0.024" (Thickness)	1					
LOUVER FIXTURE RIGHT	30220M2800	SUS304-2B / 0.024" (Thickness)		1				
SHELF STANDARD	30220M0300	SUS304 / 0.031" (Thickness)	4	6	4	8	4	8
SHELF STANDARD	30220M2300	SUS304 / 0.031" (Thickness)		2				
SHELF CLIP	30220L0900	NA6 / 16PCS	4	8	8	16	8	16
THERMOSTAT FIXTURE	30220M2100	SPG / 0.039" (Thickness)	1	1				

## PARTS LIST FOR SALAD & UNDERCOUNTER MODEL

Part name	Part Code	Description	Model					
			TST-28	TST-48	TUR-28	TUR-48	TUF-28	TUF-48
EVAPORATOR DRAIN PAN	30225M0300	AL	1		1		1	
EVAPORATOR DRAIN PAN	30225M0400	AL		1		1		1
PAN SUPPORT BAR	30225M0700	STS-304-4B / 0.028" (Thickness)	2	5				
LID HANDLE	30266P0100		1	1				
THERMOSTAT HARNESS	30227M0600		1	1	1	1		
MULLION INSULATOR	30233M0200	F-PS / 1.14"x4.53"x25.16"		1		1		1
LOUVER	30214M3203	STS304 / 0.028" (Thickness)	1					
LOUVER	30214M3303	STS304 / 0.028" (Thickness)		1				
LOUVER	30214M4601						1	
LOUVER	30214M4502							1
LOUVER TOP	30214M3500	STS304 / 0.028" (Thickness)	1					
LOUVER TOP	30214M3600	STS304 / 0.028" (Thickness)		1				
EVAPORATOR-FAN MOTOR	3963339700	CCW / DA1-6152DEB	2	2	2	2	2	2
PAN	30211M0100	PC	6	12				
SHELF	30278M0300		1		2		2	
SHELF (LEFT)	30278M0200			1		2		2
SHELF (LEFT/BOTTOM)	30278M0500			1				
SHELF (RIGHT)	30278M0400			1		2		2
SHELF (RIGHT/BOTTOM)	30278M0600			1				
SHELF (BOTTOM)	30278M0700		1					
CUTTING BOARD FITTING SCREW	7S105A0565		2	2				
HOOD LID FIXING NUT	30260M0200	STS / 0.157"	4	4				
MULLION PLASTIC	30253M0601	ABS		1		1		1
MULLION STAINLESS INSERT	30253M0500	STS304 / 0.028" (Thickness)		1		1		1
PAN SUPPORT FRAME	30253M1100	SUS304 / 0.039" (Thickness)	1					
PAN SUPPORT FRAME	30253M1200	STS304 / 0.039" (Thickness)		1				
THERMOMETER	30283G0410	S3511-91(MILJOCO)	1	1	1	1	1	1
TEMPERATURE CONTROL	30283M0300	GNF 105D-01A		1	1	1		
TEMPERATURE CONTROL	30283M0600	GNF 105D-04A	1					
TEMPERATURE CONTROL	30283M0700	GNF 106D-06D					1	1
DEFROST HEATER	30228M2002	300W					1	
EVAPORATOR THERMAL FUSE (BIMETAL)	30272L0400	PST-3					1	1
HOOD LID FIXING BOLT	700540808	M4X8, TRS	4	4				
DEFROST SENSOR	3018121300	PST-3A					1	1
DEFROST HEATER	30228M2102	450W						1

**PARTS LIST FOR SALAD & UNDERCOUNTER MODEL**

Part name	Part Code	Description	Model					
			TST-28	TST-48	TUR-28	TUR-48	TUF-28	TUF-48
FIXTURE LOVER TOP	30200T1310		2	2				
EVAPORATOR COIL	30270M1011	CU	1		1			
EVAPORATOR COIL	30270M1111	CU		1		1		
EVAPORATOR COIL	30270M1200	CU					1	
EVAPORATOR COIL	30270M1300	CU						1



# ***7. REPLACEMENT OF MAIN COMPONENTS***

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

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



### **B. Lift the door**

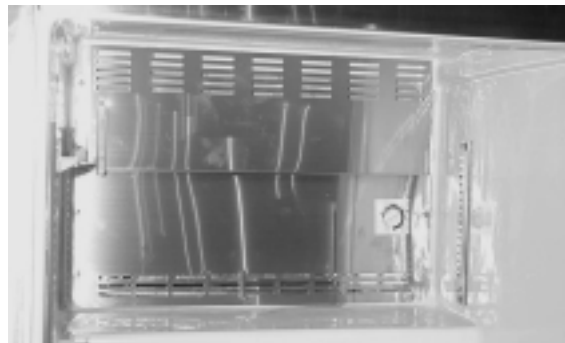


**7-2. REFRIGERATION COMPARTMENT PARTS**

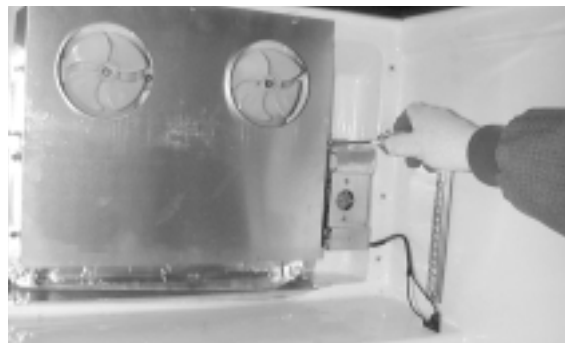
**A. Disassemble pan duct**



**B. Disassemble louver**



**C. Disassemble thermostat & sensor**



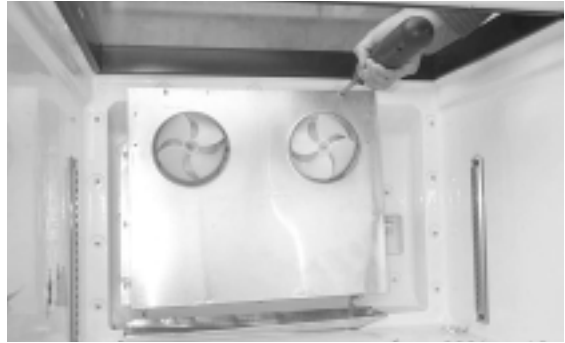
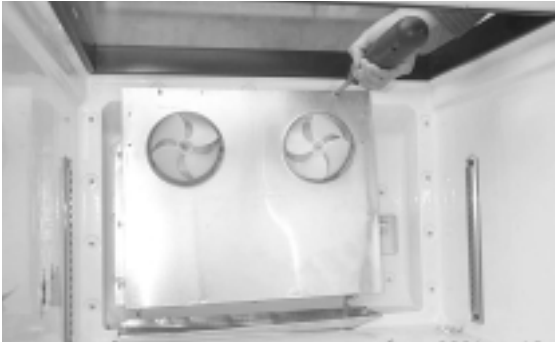
**TST-28SD,48SD  
TUF-28SD,48SD**

**TUR-28SD,48SD**

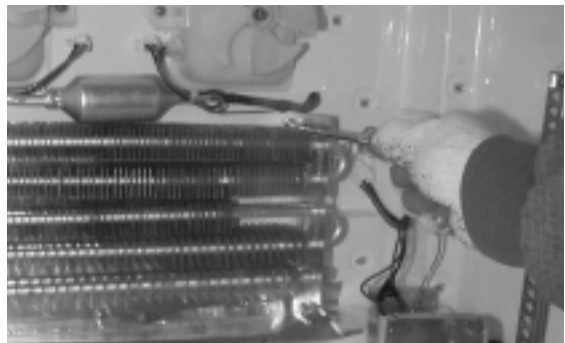
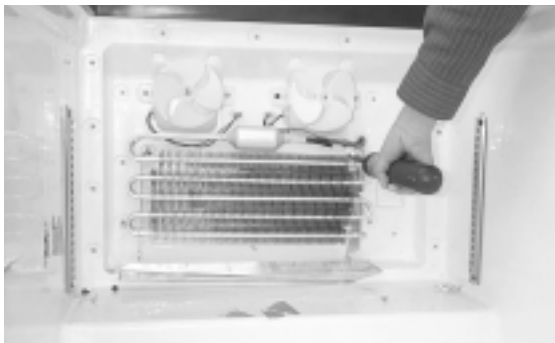
## REPLACEMENT OF MAIN COMPONENTS

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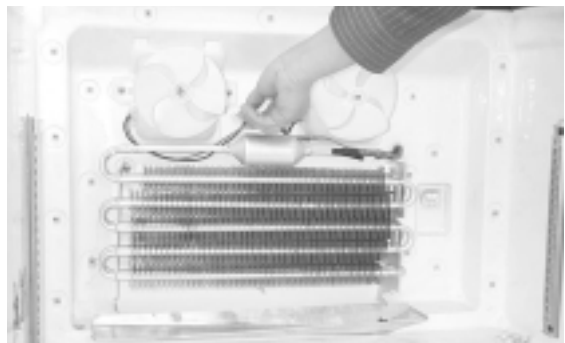
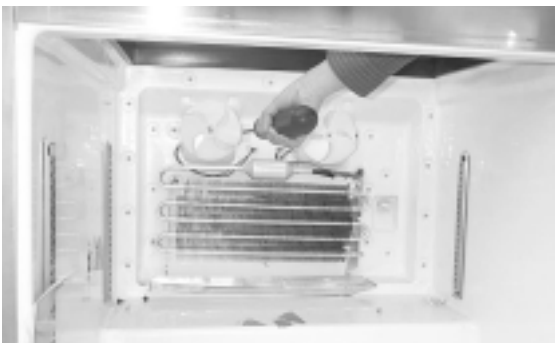
### D. Disassemble duct



### E. Disassemble evaporator coil



### F. Disassemble evaporator fan motor

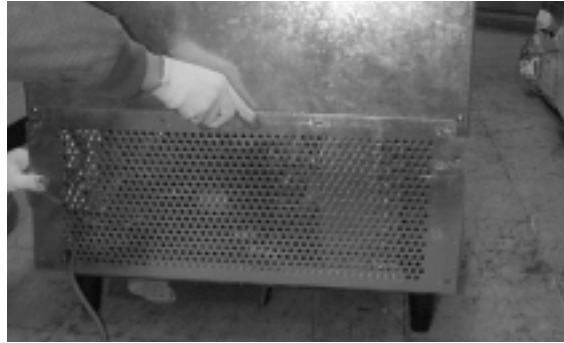
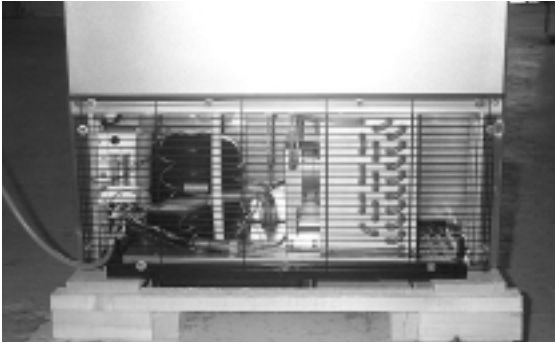


TST-28SD,48SD

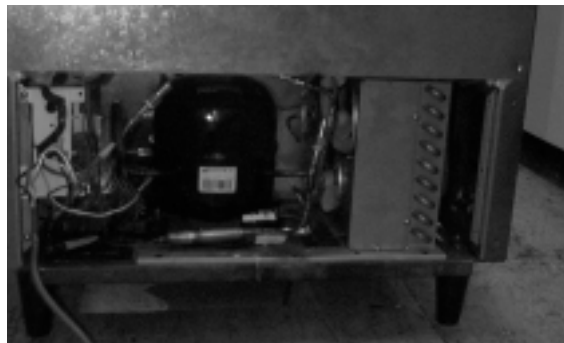
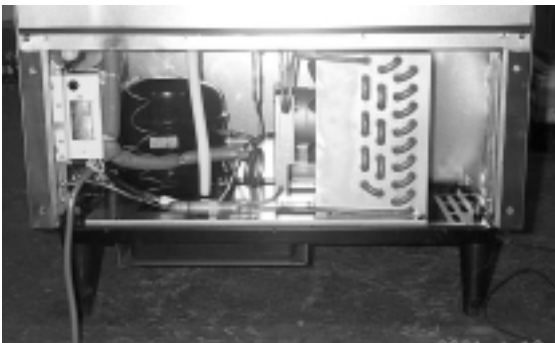
TUR-28SD,48SD

**7-3. COMPRESSOR COMPARTMENT PARTS**

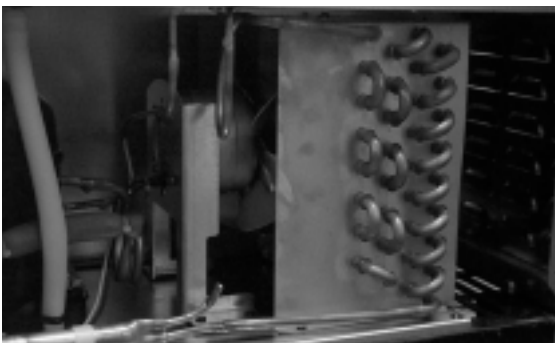
**A. Disassemble rear grill**



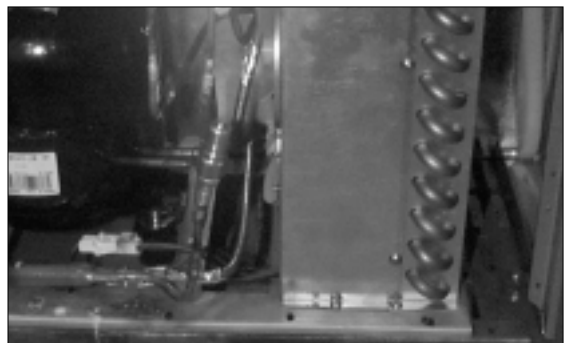
**B. Disassemble condensing unit**



**C. Disassemble condenser fan motor**



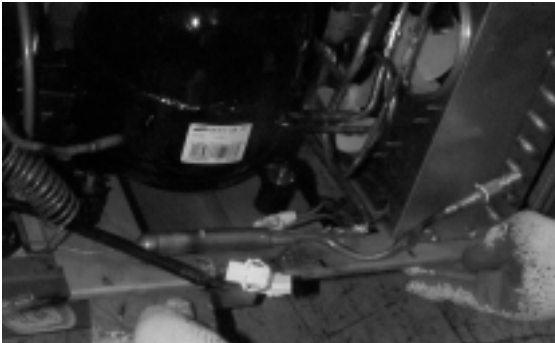
**TST-28SD,48SD**



**TUR-28SD,48SD**

## **REPLACEMENT OF MAIN COMPONENTS**

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**PULL OUT THE CONDENSING UNIT**



**DISCONNECT THE CONNECTORS**



**UNSCREW C-FAN MOTOR ASSEMBLY  
SECURING SCREWS LOCATED TOP AND  
BOTTOM FRONT SIDE, AND BACK SIDE**

**TST-28SD,48SD**



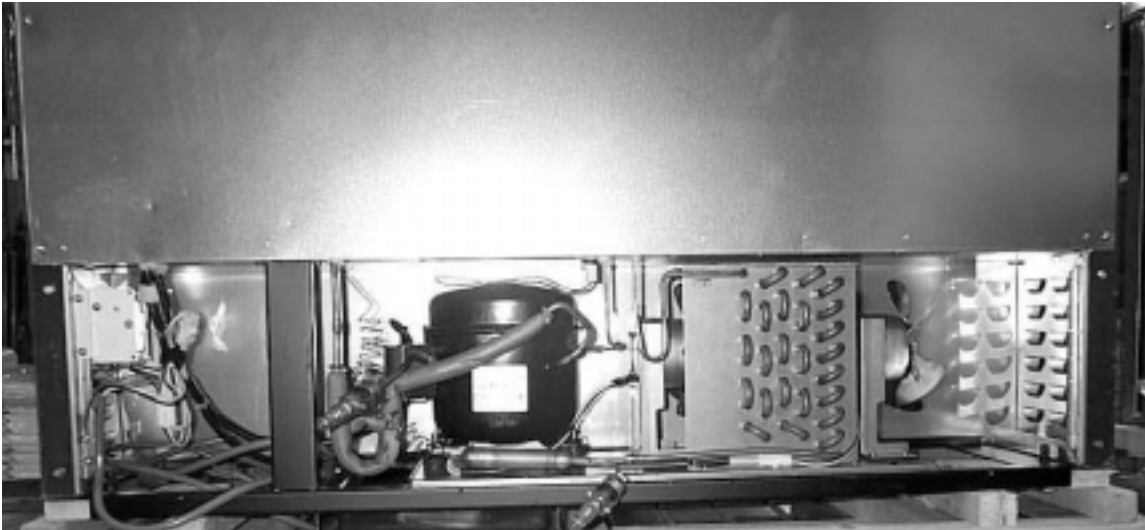
**PULL OUT C-FAN MOTOR ASSEMBLY**

**TUR-28SD,48SD**

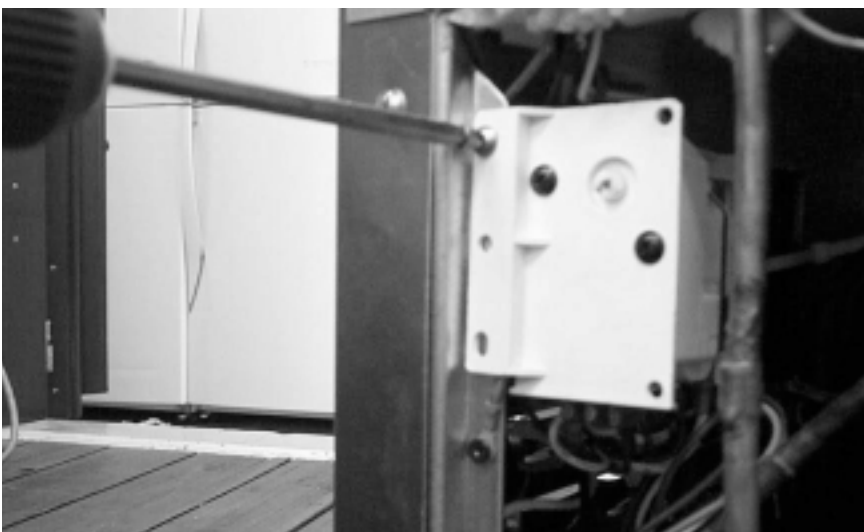
**7-4. TERMINAL BOX PARTS**

- Defrost Timer (TUF-48SD,28SD)
- Start Capacitor (TUF-28SD)
- Run Capacitor (TUF-48SD)

**A. Remove rear grill**



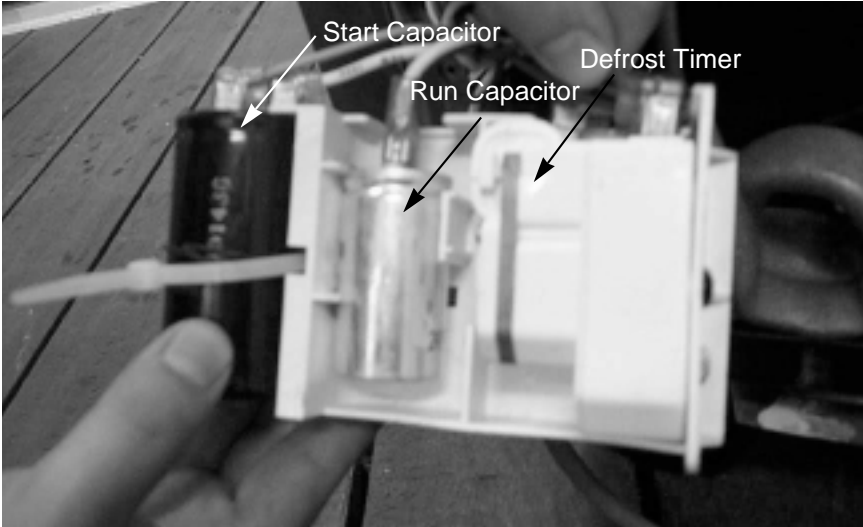
**B. Uncrew the terminal box**



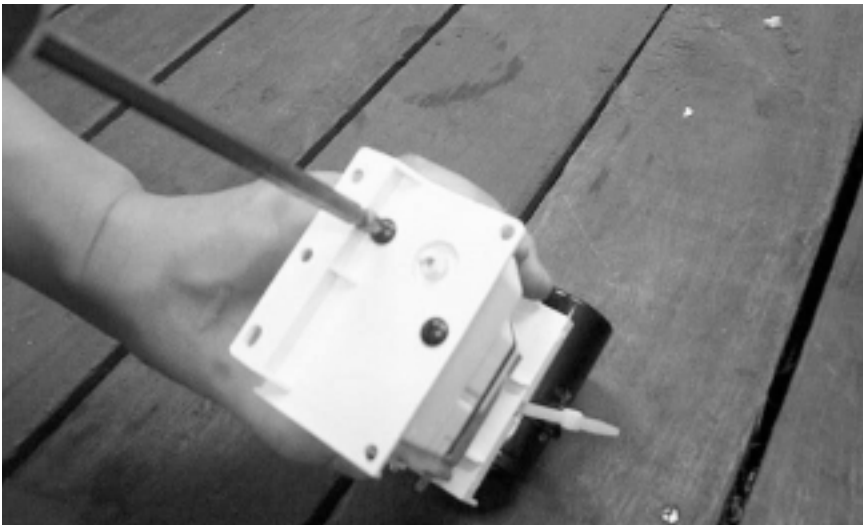
## REPLACEMENT OF MAIN COMPONENTS

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### C. Disconnect the receptales and connectors



### D. Remove defrost timer

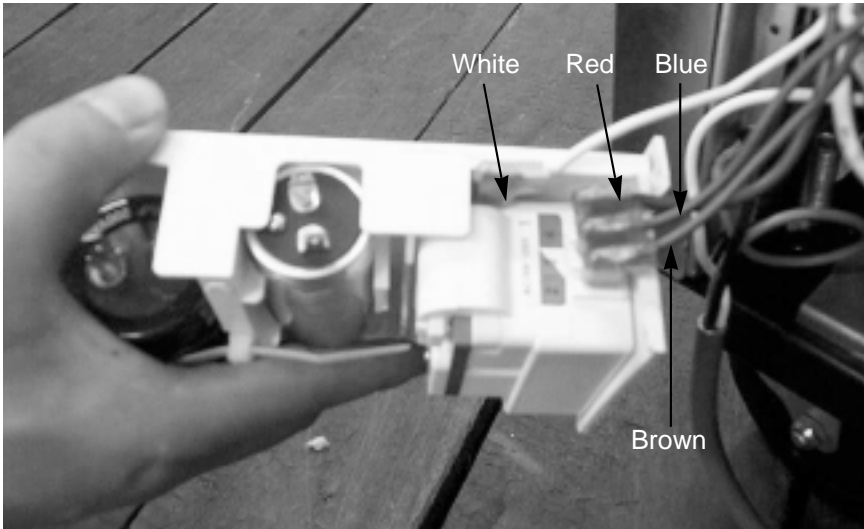


## REPLACEMENT OF MAIN COMPONENTS

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E. Replace the defrost timer.

F. Connect the receptacles to match in same color.





## **REPLACEMENT OF MAIN COMPONENTS**

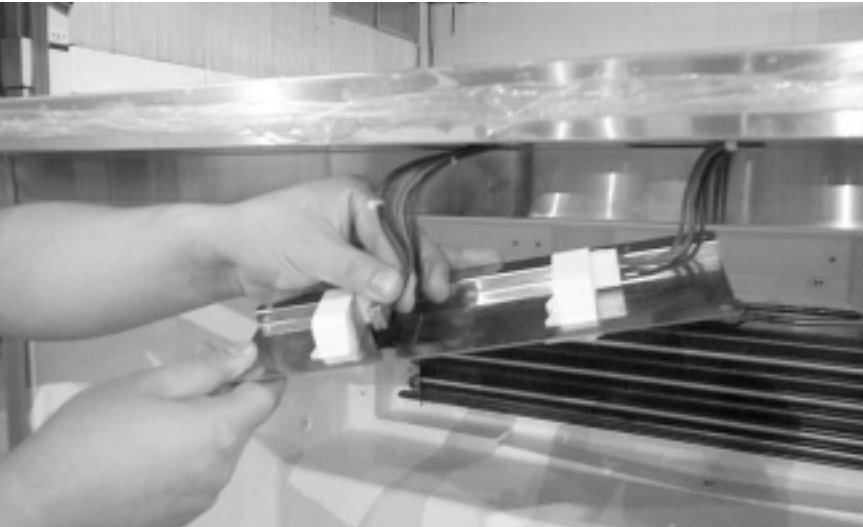
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### **7-5. REPLACE DOOR SWITCH AND POWER SWITCH (TUF-48SD, 28SD)**

#### **A. Disassemble door switch bracket**



- B. Disconnect receptacle and connector.**
- C. Replace door switch or power switch.**



# ABOUT THIS MANUAL

VISION CREATIVE, INC.

571 526

16

		TEL	
MODEL	TUR, TST, TUF - 28SD/48SD( )		
BUYER			
	1	2002.7.15	6 2002.9.4
	2	2002.7.19	7 2002.9.13
	3	2002.8.16	8 2002.10.2
	4	2002.8.20	9 2002.10.18
	5	2002.8.22	10 2002.10.21
	(2002.10.23)		
MEMO	(2002.10.18) - (SD ) (2002.10.21) - 5,6,7,20,22,23 - (2002.10.22) - 3,4,7,22 - (2002.10.23) - 7 - (2003.4.17) - 8,15,16,19,20,21,22,23 (2003.4.21) - 2,3,4,6,8,15,16,18,23 (2003.4.22) - 2,3,4,5,6,7,8,16 (2003.4.23) - 8p (2003.4.23) - Han		

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