



Commercial Refrigerator Service Manual

Direct Draw Beer Dispensers

**Model No.: TBD-2SD
TBD-3SD**

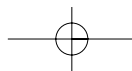


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TBD-2SD / TBD-3SD

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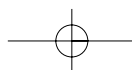
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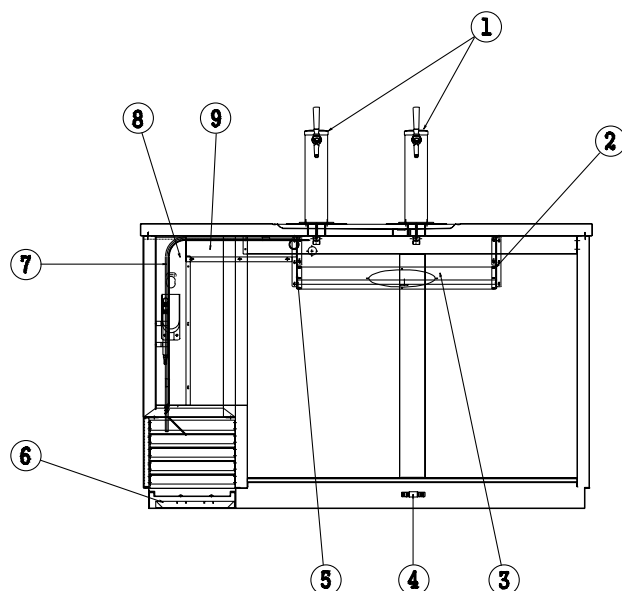
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1. FEATURE CHART

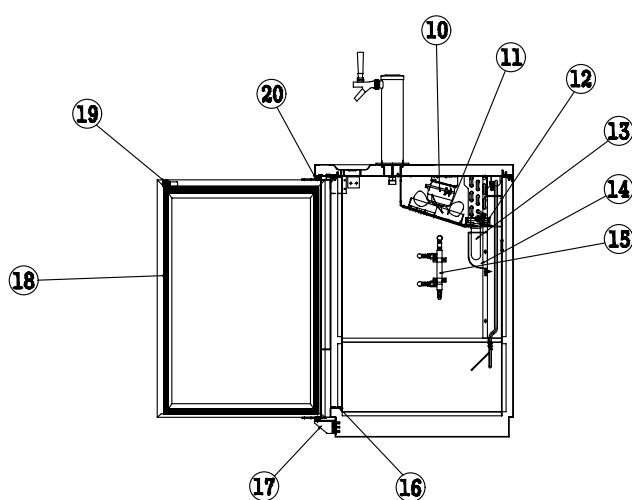
1-1. FRONT VIEW/SIDE VIEW (TBD-2SD)

FRONT VIEW



- 1 DRAFT STANDARD ASSY
- 2 EVAPORATOR HOUSING GUIDE*L
- 3 EVAPORATOR HOUSING
- 4 DRAIN LINE
- 5 EVAPORATOR HOUSING GUIDE*R
- 6 CONDENSATE DRAIN PAN
- 7 SUCTION LINE ASSEMBLY(A)
- 8 SUCTION LINE COVER(A)
- 9 SUCTION LINE COVER(B)
- 10 EVA. FAN MOTOR ASSY
- 11 EVA. FAN MOTOR GUARD
- 12 EVAPORATOR DRAIN PAN(B)
- 13 LAMP
- 14 LAMP SHIELD
- 15 DRAFT AIR DISTRIBUTOR
- 16 FRAME COVER BRACKET
- 17 BOTTOM HINGE ASSEMBLY
- 18 DOOR GASKET
- 19 DOOR LOCK ASSY
- 20 TOP HINGE ASSEMBLY

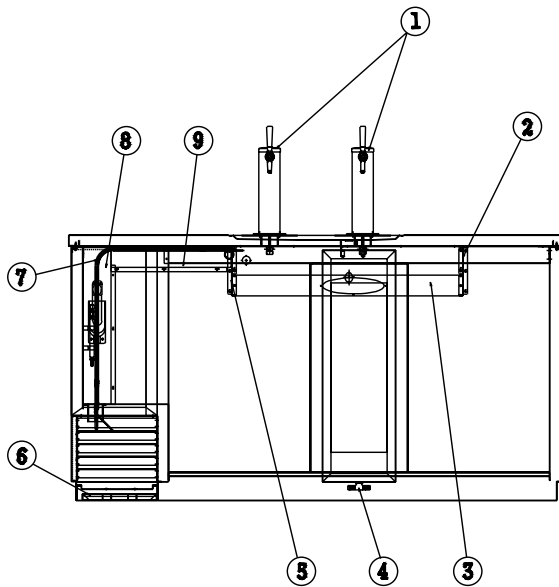
SIDE VIEW



FEATURE CHART

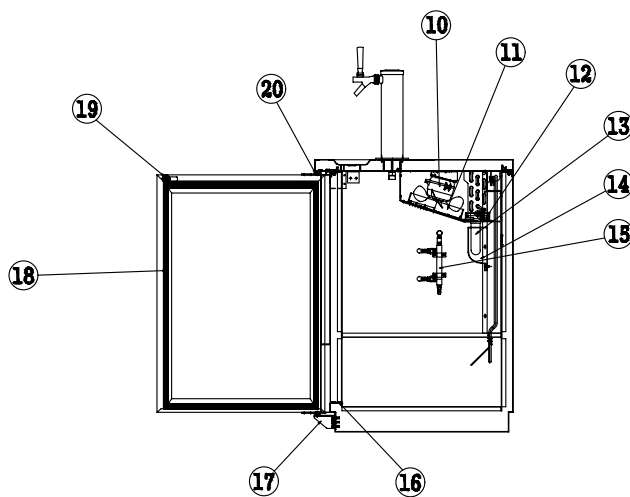
1-2. FRONT VIEW/SIDE VIEW (TBD-3SD)

FRONT VIEW



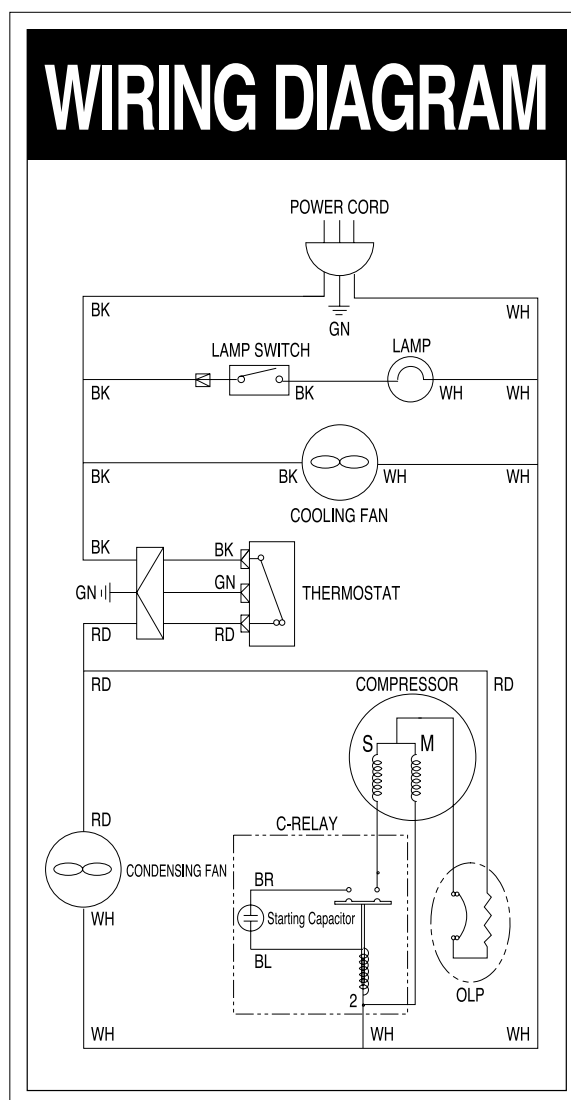
- 1 DRAFT STANDARD ASSY
- 2 EVAPORATOR HOUSING GUIDE*L
- 3 EVAPORATOR HOUSING
- 4 DRAIN LINE
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- 14 LAMP SHIELD
- 15 DRAFT AIR DISTRIBUTOR
- 16 FRAME COVER BRACKET
- 17 BOTTOM HINGE ASSEMBLY
- 18 DOOR GASKET
- 19 DOOR LOCK ASSY
- 20 TOP HINGE ASSEMBLY

SIDE VIEW



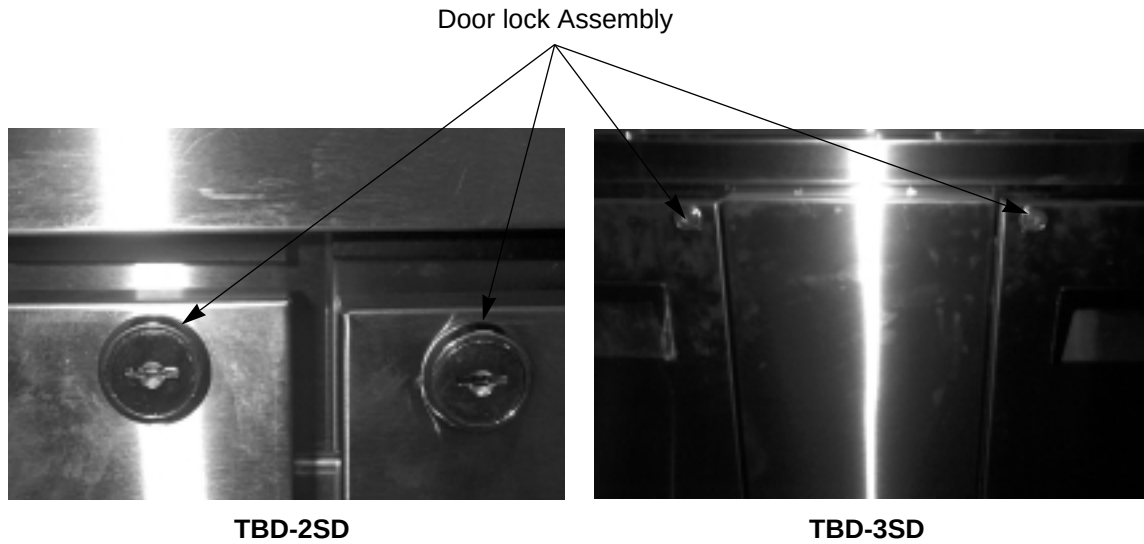
2. WIRING DIAGRAM

TBD-2SD, TBD-3SD



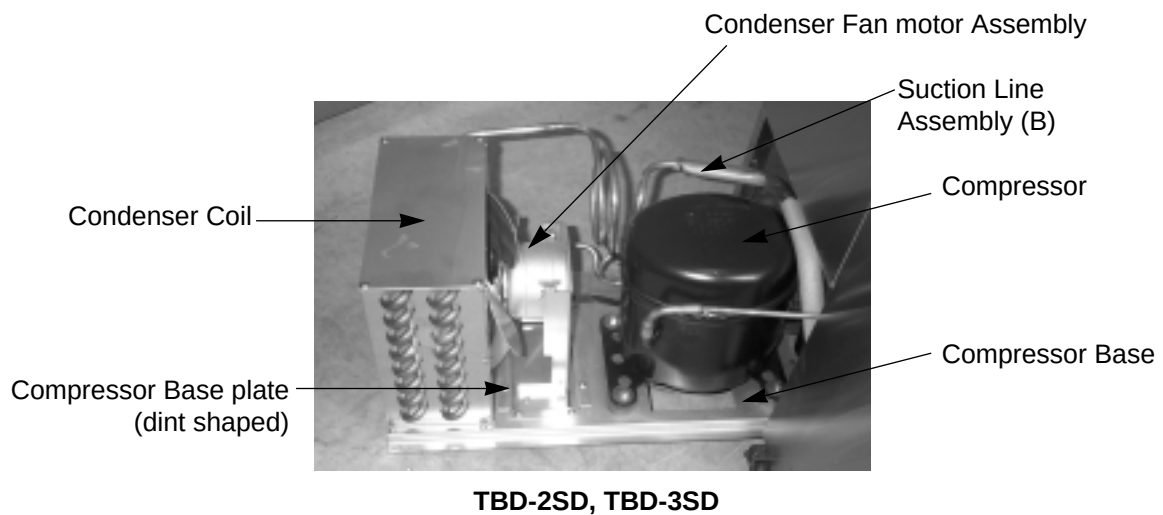
3. PART DETAILS

3-1. DOOR



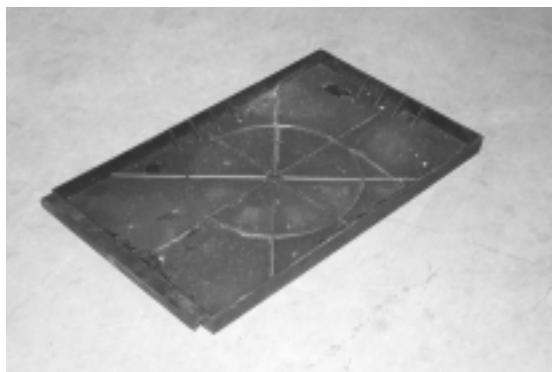
3-2. Refrigeration Compartment

Condensing Unit



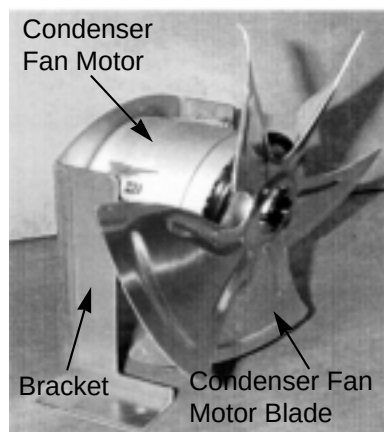
PART DETAILS

Condensate drain pan



TBD-2SD, TBD-3SD

Condenser Fan Motor Assembly



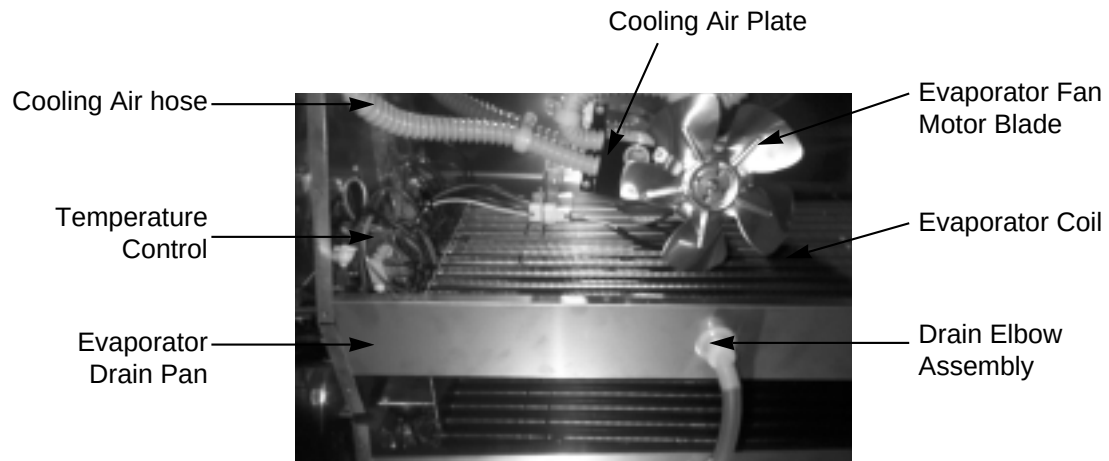
3-3. Cooling Compartment



TBD-2SD, TBD-3SD

PART DETAILS

Evaporator ,Fan,Cooling air hose Assembly



4. MAIN COMPONENTS

1. COMPRESSOR

MODEL	PART NAME	PART NO.	HORSE POWER	CAPACITY	TYPE OF MOTOR	INPUT	MAKER
TBD-2SD TBD-3SD	CAE4448Y	30200D5100	1/3HP	4,979 Btu/h (1256 kcal/h)	CSIR	-	TECUMSEH (France)

2. COMPRESSOR RELAY, OVERLOAD

MODEL	RELAY	PART NO.	OVERLOAD	PART NO.	MAKER	NOTE
TBD-2SD TBD-3SD	3ARR12KP483	Comp.Assembly	MRT16AHKE	Comp.Assembly	TECUMSEH (France)	

3. COMPRESSOR CAPACITOR

MODEL	RELAY	PART NO.	OVERLOAD	PART NO.	MAKER	NOTE
TBD-2SD TBD-3SD	160V/315 μ F	Comp.Assembly	-	-	-	-

4. CONDENSER FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (NUMBER)	MAKER
TBD-2SD TBD-3SD	IS4420DWSG-1	3963220410	4P	47W	Shaded Pole Induction	AL 5	SUNGSHIN

5. EVAPORATOR FAN MOTOR

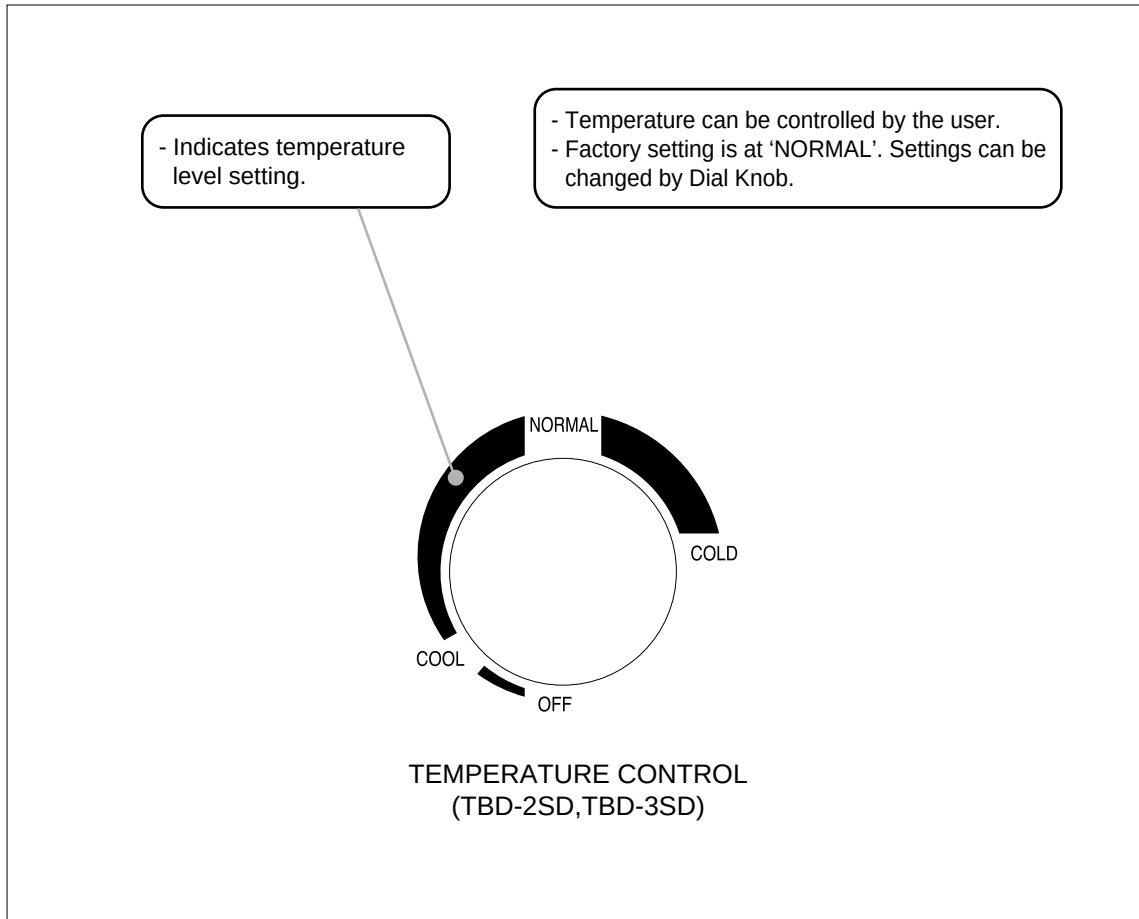
MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE (NUMBER)	MAKER
TBD-2SD TBD-3SD	IS4420DWSN-2A	3963328120	4P	43W	Shaded Pole Induction	AL 5	SUNGSHIN

6. SWITCH

PART NAME	PART NO.	RATING	MAKER
LIGHT SWITCH	30281Q0100	125V/15A	SKT
TEMPERATURE CONTROL	30283M0100	K55Q-5608,16A	RANCO

5. TEMPERATURE CONTROL INSTRUCTION

5-1. HOW TO USE THE TEMPERATURE CONTROL



5-2. FUNCTION TABLE

No	Function	Controlled Part	Description												
1	Temperature Control (K55Q-5608) Model: TBD-2SD TBD-3SD	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 (on Evaporator) <table> <tr> <th>No.</th><th>Cool</th><th>Normal</th><th>Cold</th></tr> <tr> <td>Cut in</td><td>40.1 ± 2.7</td><td>40.1 ± 2.7</td><td>40.1 ± 2.7</td></tr> <tr> <td>Cut Out</td><td>21.2</td><td>17.1</td><td>10.4</td></tr> </table>	No.	Cool	Normal	Cold	Cut in	40.1 ± 2.7	40.1 ± 2.7	40.1 ± 2.7	Cut Out	21.2	17.1	10.4
No.	Cool	Normal	Cold												
Cut in	40.1 ± 2.7	40.1 ± 2.7	40.1 ± 2.7												
Cut Out	21.2	17.1	10.4												

6. PARTS LIST

Part name	part Code	Description	Model	
			TBD-2SD	TBD-3SD
Cabinet				
COUNTERTOP ASSEMBLY	30200D6000	STS430-NO4	1	
COUNTERTOP ASSEMBLY	30200D6100	STS430-NO4		1
CABINET ASSEMBLY	30200D6200	STS430-NO4	1	
CABINET ASSEMBLY	30200D6300	STS430-NO4		1
Door				
DOOR ASSEMBLY(L)	30200D7000	STS430-NO4	1	1
DOOR ASSEMBLY(R)	30200D7200	STS430-NO4	1	1
DOOR GASKET	30223D0100	PVC-S	2	2
DOOR HINGE BUSHING	30207D0100	PA-66	4	4
DOOR HINGE TOP ASSEMBLY(A): LEFT & RIGHT EQUAL PART	30229D0100	SPCC T3.0	2	2
DOOR HINGE BRACKET	30229D0400	SPCC T3.0	4	4
DOOR HINGE BOTTOM ASSEMBLY(R)	30229D0200	SPCC T1.5	1	1
DOOR HINGE BOTTOM ASSEMBLY(L)	30229D0300	SPCC T1.5	1	1
DOOR LOCK BRACKET	30269D1500	SPCC T1.0	2	2
DOOR LOCK ASSEMBLY	30238D0100		2	2
COMPRESSOR COMPARTMENT				
CONDENSER COIL	30200D2500	CU	1	1
SUCTION LINE ASSEMBLY(A)	30244D1700	CU, ø9.52*T0.6*L1110	1	
SUCTION LINE ASSEMBLY(A)	30244D1800	CU, ø9.52*T0.6*L1160		1
SUCTION LINE ASSEMBLY(B)	30244D2100	CU, ø9.52*T0.6*L2590	1	1
COMPRESSOR BASE	30203D2700	T2.0	1	1
COMPRESSOR BASE PLATE	30203D2500	T1.5	1	1
GRILL ASSEMBLY	30200D1800	STS430-NO4	1	1
COMPRESSOR	30200D5100	CAE4448Y(TECOMSEH-FRANCE)	1	1
POWER CORD	30213A1012	KKP-30(9.85ft)	1	1
COMPRESSOR DRYER	30268Q0100	XH-9/50g	1	1
CONDENSER FAN MOTOR	3963220410	IS4420DWSG-1	1	1
CONDENSER FAN MOTOR BLADE	30218B0300	AL ø200	1	1
CONNECTING PIPE				
CONNECTING PIPE (COMPRESSOR+CONDENSER)	30224D2400	ø7.94*T0.6*L480	1	1
CONNECTING PIPE (CONDENSER+DRYER)	30244D2500	ø7.94*T0.6*L150	1	1
CAPILLARY TUBE	30244D2600	OD2.8*T0.6*L1650	1	1
COMPRESSOR HARNESS ASSEMBLY	30227D0700		1	1
CONDENSATE DRAIN PAN	30211B0100	HIPS	1	1

Part name	part Code	Description	Model	
			TBD-2SD	TBD-3SD
REFRIGERATION COMPARTMENT				
EVAPORATOR COIL	30270D0100	CU		1
EVAPORATOR COIL	30270D0200	CU	1	
EVAPORATOR HOUSING GUIDE*L	30225D0200	AL T1.0	1	1
EVAPORATOR HOUSING GUIDE*R	30225D0300	AL T1.0	1	1
EVAPORATOR DRAIN PAN(A)	30225D0500	STS304-2B		1
EVAPORATOR DRAIN PAN(A)	30225D0600	STS304-2B	1	
DRAIN ELBOW	30209L0200	PA-66	2	2
DRAIN GUIDE	30225L0100	PA-66	2	2
COOLING AIR HOSE	30232L0400	PVC-H, L=19.7 inch	2	2
COOLING AIR PLATE	30206D2900	STS304-2B	1	1
EVAPORATOR MAIN HARNESS ASSEMBLY	30227D0600		1	1
TEMPERATURE CONTROL HARNESS ASSY	30227M0600		1	1
TEMPERATURE CONTROL PLATE	30245D0100	STS304-2B	1	1
SUCTION LINE COVER(A)	30269D0400	STS430-2B	1	1
SUCTION LINE COVER(B)	30269D0500	STS430-2B		1
SUCTION LINE COVER(B)	30269D0700	STS430-2B	1	
LAMP BULB	30236L0100	25W	1	1
LAMP SHIELD	30214L3200	PP,MILKY	1	1
LAMP HOLDER	30279L0100	L-124B-PVC,MEDIUM BASE	1	1
DRAFT AIR DISTRIBUTOR	30200D5900		1	1
DRAFT STANDARD ASSEMBLY	30200D5700	Stainless steel	1	1
DRAFT SPILL GRATE	30244D0500	STS304-2B	1	1
DRAIN LINE	30232L0600	CU	1	1
EVAPORATOR FAN MOTOR ASSEMBLY	3963328120	IS4420DWSN-2A	1	1
EVAPORATOR FAN MOTOR GUARD	30214K0100	ABS	1	1
EVAPORATOR HOUSING	30269D0300	STS304-2B		1
EVAPORATOR HOUSING	30269D0600	STS304-2B	1	
FRAME COVER BRACKET	30269D1800	STS304-2B	2	2

7. REPLACEMENT OF MAIN COMPONENTS

7-1. REPLACING DOOR

A. Unscrew the door hinge top



B. Lift the door



REPLACEMENT OF MAIN COMPONENTS

7-2. REFRIGERATION COMPARTMENT PARTS

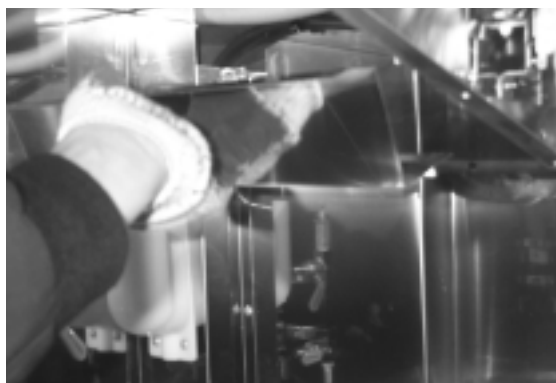
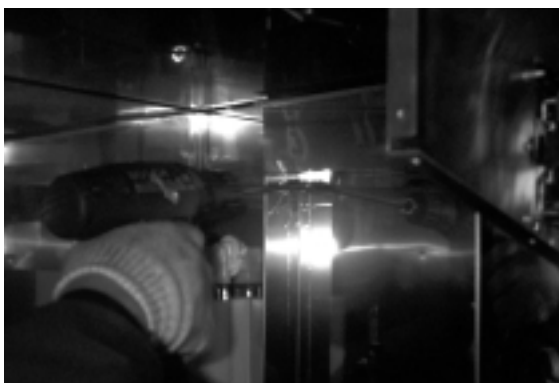
A. Disassemble Evaporator Housing



B. Carry Evaporator Housing out of a inner

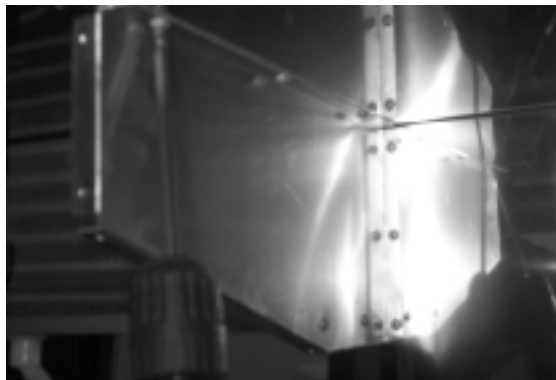
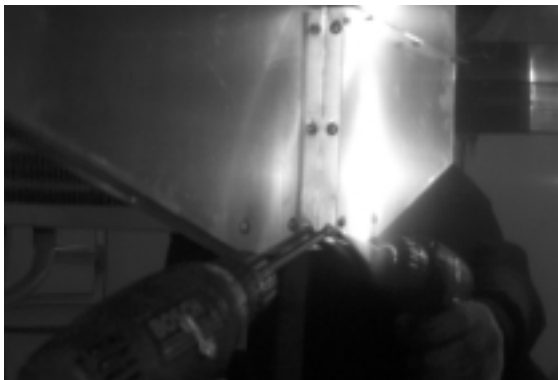


C. Unscrew the screws located on bottom and top of suction line cover(B)

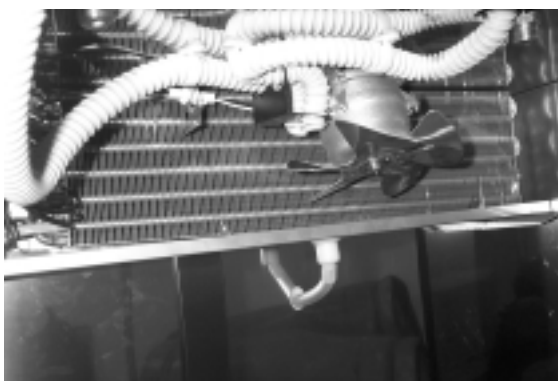


REPLACEMENT OF MAIN COMPONENTS

D. Remove Evaporator Housing guide*L and Evaporator Housing guide*R by unscrewing the ten screws located on each side of the Evaporator.



E. Figure of disassembled refrigeration compartments.



F. Unscrew the screws located both sides of suction line cover(A)



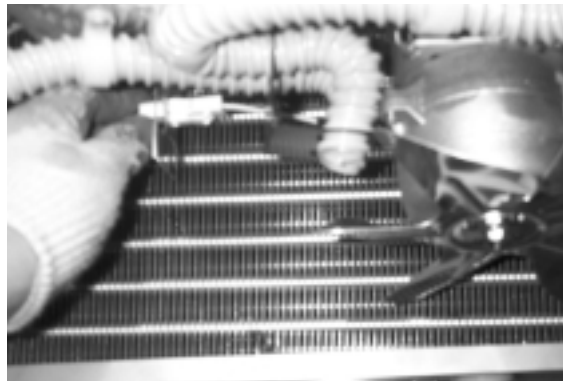
REPLACEMENT OF MAIN COMPONENTS

G. Disconnect the connector from the lamp harness.

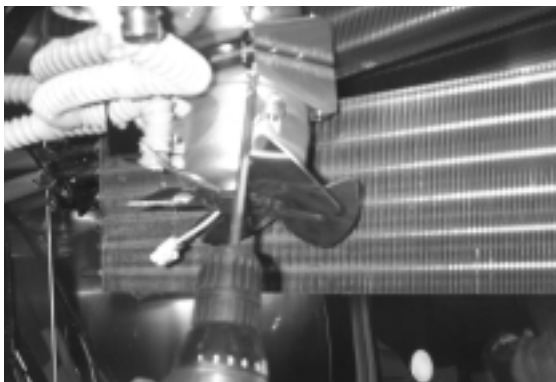


H. Replacing the evaporator fan motor.

A-1. Pull out the fan motor connector.

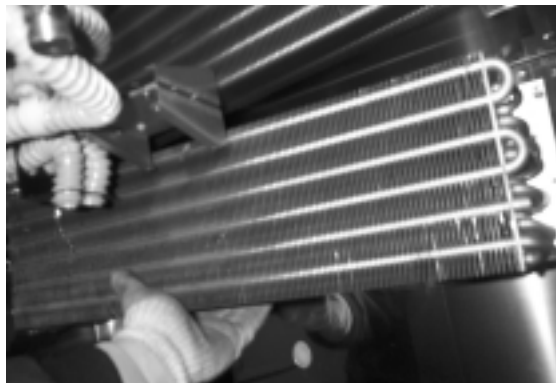
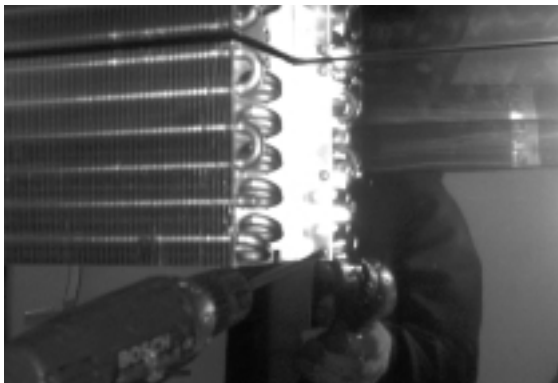


A-2. Unscrew the four screws which located on bottom of the fan motor.



REPLACEMENT OF MAIN COMPONENTS

I. Remove the evaporator by unscrewing the five screws located on each side of the evaporator.



REPLACEMENT OF MAIN COMPONENTS

7-3. COMPRESSOR COMPARTMENT PARTS

A. Disassemble the Bottom Grille.



(FRONT)



(REAR)

B. Unscrewing the four screws located on front and rear of the compressor base.

C. Pull out the condensing unit.



D. Below picture shows the condensing unit .



ABOUT THIS MANUAL

VISION CREATIVE, INC.

중구 남대문로 5가 526

대우재단빌딩 16층

담 당	(쇼케이스개발)방정근 님		TEL	
MODEL	TBD - 2SD/3SD			
BUYER				
	1차	04.3.22	6차	04.5.7
	2차	04.4.8	7차	04.5.13
	3차	04.4.9	8차	04.5.28
	4차	04.4.10	9차	04.6.11
	5차	04.5.3	10차	
제 판			인쇄	
규 격				
MEMO				
확인후 인검내용을 통보바랍니다. 이상이 없으면 본 page만 재송부 요망합니다.			SIGN	

연락처

VISION 담 당 임희영

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