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1. PRECAUTION

Please observe the following instructions.

1. Turn off unit.

Make sure the unit is OFF and the AC cord is unplugged before repairing or servicing.

2. In case of checking the circuit unavoidably while the unit is connected with power source, be careful not to connect with the part of electric charge.

You may cause electric shock.

3. Use of proper part if you need to replace the part, be sure to use genuine part of servicing model.

Do not repair or replace the electric contact part.

Consumer must not repair the unit, because it is dangerous.

4. Use of proper tool.

You must use the proper tool to repair the unit, and use the measuring appliance adjusted accurately.

5. Damage of electric wire and power cord when servicing.

Check electric wire and a surely replace a damage electric wire and a damage power cord.

6. Never use connecting the middle of wire, after cutting the middle of wire.

It may cause a fire and trouble.

7. Checking the insulation resistance.

After you complete the assembly of unit, surely check the insulation resistance.

Confirm that the insulation resistance of the power line and the ground terminal is over $30M\Omega$ by measuring insulation resistance.

8. Checking the ground.

After checking the ground, servicing it completely.

9. Checking the installation.

After checking the installation, servicing it completely.

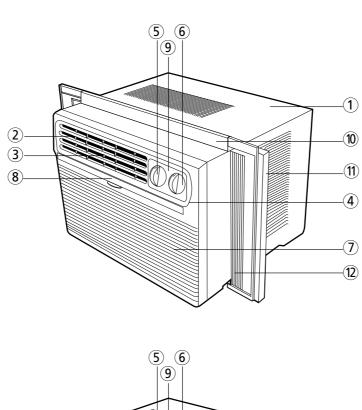
10. Care children.

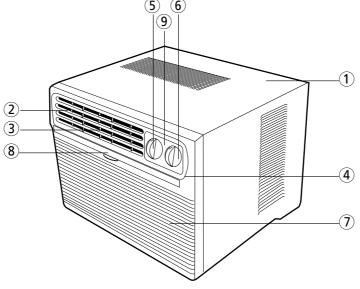
When servicing, do not make the children approach the air-conditioner.

2. GENERAL SPECIFICATIONS

ITEM	MODEL	DWC-052C	DWB-052C	
Function		Cooling only		
Power source		AC 115V / 60Hz	AC 220-240V / 50Hz	
Cooling Capacity	Btu/h	5,340 Btu/h	5,350 Btu/h	
Cooling Capacity	Kcal/h	1,346 Kcal/h	1,348 Kcal/h	
Engrav Efficiency Datio	Btu/Wh	10.2 Btu/Wh	10.3 Btu/Wh	
Energy Efficiency Ratio	Kcal/Wh	2.57 Kcal/Wh	2.59 Kcal/Wh	
Dehumidification	Pts/h	1.73 Pts/h	1.46 Pts/h	
Denumidification	g/h	787 g/h	662 g/h	
Floatrical Data	Power Input (W)	525 W	520 W	
Electrical Data	Running Current (A)	4.6 A	2.4 A	
	Туре	Rotary		
Compressor	Model	RM5455GQ87	KH-091VFHC	
	Capacitor	40µF / 370VAC	13µF / 400VAC	
	Model	A9520KC030	A9520CC020	
E . M .	Capacitor	4μF / 370VAC	2µF / 400VAC	
Fan Motor	Indoor-Fan	Blower-Fan		
	Outdoor-Fan	Propeller-Fan		
	Control	Capillary		
Refrigerant(R-22)	Charge Amount(g)	13.3oz (380g)	14.7oz (420g)	
<u>.</u> .	Unit(W x H x D)	17.3(W) x 12.3(H) x 15.2(D) inch (440(W) x 313(H) x 385(D) mm)		
Dimensions	PACKING(W x H x D)	19.2(W) x 15.4(H) x 17.4(D) inch (488(W) x 390(H) x 443(D) mm)		
	Net Weight	45.4 lbs (20.6Kg)	46.3 lbs (21Kg)	
Weight	Gross Weight	48.5 lbs (22kg)	48.5 lbs (22kg)	

3.NAMES OF MAJOR COMPONENTS





NO	PART NAME	NO	PART NAME
1	CABINET	7	AIR INTAKE
2	BLADE VERTICAL	8	AIR FILTER
3	COOL AIR DISCHARGE	9	CONTROL PANEL
4	GRILLE FRONT	10	PLATE WINDOW TOP
5	KNOB THERMOSTAT	11	FRAME WINDOW KIT
6	KNOB SELECTOR	12	SHUTTER WINDOW

^{*} Window kits are optional. (Item No. 10, 11, 12)

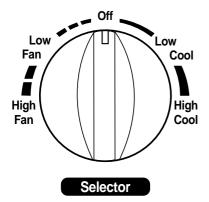
4. FUNCTION OF MAIN COMPONENTS

1. ROTARY SWITCH (SELECTOR)

Please refer to the part of selector in the chapter 9 (Wiring Diagram).

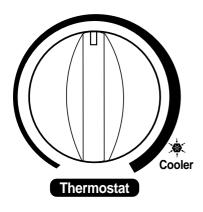
The rotary switch (selector) controls the fan motor's rotation speed, and has five positions.

The function of the five position is as follow.



- OFF: This position stops all operations of the air conditioner.
- HIGH COOL: This position provides the maximum air flow for rapid cooling, dehumidifying and dust removing operations. (Use this position on sultry summer days.)
- LOW COOL: This position provides the minimum air flow for quiet cooling, dehumidifying operations.
 (Use this position on suitable for night-time.)
- HIGH FAN: This position provides the maximum air flow alone fan operation without cooling operation.
- LOW FAN: This position provides the minimum air flow air flow alone fan operation without cooling operation.

2. THERMOSTAT (TEMPERATURE CONTROL)



- The Thermostat automatically starts and stops operation in order to keep the room temperature at a proper level, and this results in efficient use of power and economical cooling.
- Turn clockwise for a cooler room temperature.
- Turn counter-clockwise for a warmer room temperature.

3. MOTOR

The motor is used to rotate the indoor and outdoor fan so that the room air can be recirculated.

4. FAN

- BLOWER FAN: The Blower draws hot air from the room through the Evaporator and then discharges it back into the cool air. It circulates the room air.
- PROPELLER FAN: The propeller draws outdoor air through louvering and cools Condenser, and then blows the hot air out.

5. CAPACITOR

The Capacitor enlarges the difference of phase between main coil and sub coil so that the Compressor and Fan Motor starts well.

6. ACCUMULATOR

The Accumulator blocks the unflow of liquid refrigerant and impurities into the Compressor.

5. GENERAL INFORMATIONS

1. CHANGING AIR FLOW DIRECTION

Air flow deflectors divert air from center flow to left or right. Adjust deflectors for desired air flow pattern.

2. AIR FLOW AROUND UNIT

Check in door grill and outdoor louvers for air flow obstructions. Do not block air flow to and from unit. The outdoor coil should be checked and periodically cleaned for debris that may collect and block unit air flow. If air flow is obstructed or deflected back into unit, the compressor may cycle on and off rapidly, causing early compressor failure.

3. Electrical Grounding Instructions.

This appliance is equipped with a three-prong(grounding) plug for protection against possible shock hazards. If a two-prong wall receptacle is encountered, the customer is required to contact a qualified electrician and have the two-prong wall receptacle replaced with a properly grounded three-prong wall receptacle in accordance with the National Electrical Code.

4. USE OF EXTENSION CORDS

Because of potential safety hazards under certain conditions we strongly recommend against the use of an extension cord. However, if you still elect to use an extension cord, it is absolutely necessary that it is earthed and the marked rating of the extension cord should be 250V 10A or more for Model DWB-052C.

Also, it is absolutely necessary that it be a UL listed 3-wire grounding type appliance extension cord rated has a 3-blade grounding and 3-slot receptacle that will plug into appliance. The marked rating of the extension cord should be 125V 13A or more, for Model DWC-052C.

6. CARE AND MAINTENANCE

1. AIR FILTER

Clean the air filter, which removes dust inside the room.

It should be washed at least once every week during operation.

- 1. Remove the Air Filter from the front grill by pulling up.
- 2. Clean Air Filter with a vacuum cleaner or lukewarm, soapy water.
- 3. Shake it when clean to remove moisture completely. Replace it.

2. CLEANING THE AIR CONDITIONER

- 1. At least once a year, remove cabinet and thoroughly clean air conditioner. Have the unit inspected by an authorized servicer to ensure unit is functioning properly.
- 2. Wash air conditioner with lukewarm, soapy water as needed. Rinse and dry thoroughly.
- 3. If using concentrated liquid detergent, dilute in warm water first.
- 4. Front grill may be wiped off with a cloth dampened in a mild detergent solution.
- 5. Cabinet may be washed with mild soap or detergent and lukewarm water, then polished with liquid wax for appliances.
- 6. Condenser and Evaporator coils should be cleaned at the beginning of each cooling season. Use a soft brush or vacuum cleaner to clean them, making sure that the Condenser and Evaporator coils are not damaged.
- 7. Do not use abrasive cleaners. These items scratch, crack and discolor surfaces.

7. TROUBLE SHOOTING GUIDE

TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
Fan motor and compressor do not run	1. Power failure	1) Power plug	1) Power failure	Consult your electric company
		2) Circuit breaker	2) Circuit breaker is tripped	In case of a breaker, turn it on and off a few times
			3) Power plug is not contacting	Replace the power plug
	2. Power is supplied,	1) receptacle	Disconnection	Repair or replace the receptacle
	but the equipment does not run	2) Operation switch	Mechanical failure of switch	Replace the cord or lead wire
		3) Cord or lead wire to the switch	1) Disconnection	replace the cord of lead wife
		ano ovnion	2) Malfunction of contact	
Switch is in "cool" position but the	1. Not operating at all	1) Compressor	Disconnection or burned-out	Replace the compressor or connection wire
compressor does not run		2) Thermostat	1) Failure	Replace
			2) Malfunction	Repair or replace
			Knob is not set to the proper setting	Turn knob for cooler setting
		3) Selector switch	Failure of malfunction of proper setting	Repair or replace the swtting
		4) O.L.P	1) Disconnection	Repair
			2) Malfunction of contact	Repair or replace
		5) Capacitor	Lack of capacity	Replace
			Disconnection	Repair
	2. Compressor	Electricity Room temperature	The voltage exceeded allowed range	Consult your electric company
			Capacity of wire is not sufficient	Check the capacity of wire Ventilate well and remove the
			Extremely high	heat source
		and outside temperature	Burned-out	Replace
		3) Compressor	Malfunction	Replace
		4) O.L.P	Lack of capacity	Replace
		5) Capacitor		
	Frequent start and stop	1) Thermostat	Malfunction	Replace
	0.00	2) Capacitor	Lack of capacity	Replace
		3) O.L.P	Malfunction	Replace

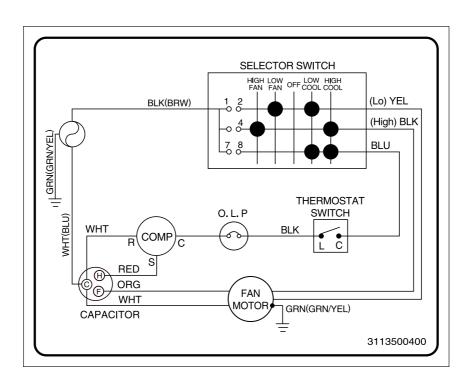
TROUBLE	SITUATION	ANALYSIS	CAUSE	REMEDY
The compressor runs but the motor doesn't run		1) Fan 2) Fan motor 3) Capacitor 4) Fan motor circuit	Blocked by others Disconnection or burned-out electric cord	Repair Replace the fan motor
			Failure malfunction of contact	Replace
			Disconnection of malfunction of contact	Check the circuit
Both fan motor and	Not cooling at all	Refrigerant system	1) Refrigerant system is choked	• Repair
compressor are running but cooling is bad			2) Compressor failure	• Repair
Dau			3) Leakage of refrigerant gas	Recharge refrigerant gas
	Insufficient cooling	1) Refrigerant system	1) Refrigerant system is choked	Check and repair refrigerant system
		2) Filter	2) Compressor failure	Replace
		3) Heat exchanger of condenser	3) Leakage of refrigerant gas 4) Refrigerant charge is too high	Check a part of Leakage and repair
			Clogged up with dust Fin is cogged up with dust The ventilation is not good The unit is exposed to the sunlight Other heat source is added in the room	Repair and recharge Clean the air fiter Clean the unit Shade the unit from the sunlight Remove the added heat source
Vibration & Noise		Installation place Fan Fixing screws Electric components	Installation of the unit is imperfectly done Fan is contacted with obstacles Fixing bolt Have a screw loose Electrical noise	 Install the unit perfectly Remove obstacles Tighten the bolt Tighten the screw Exchange the components
Water leakage into room		Installation condition	The front is lower than rear side	Make rear side of the unit lower than the front
Electric shock (Leakage of current)		Insulation of components	1)Insulation defect of wiring and lead wire	Check the unit's Leakage of current.
			2) Leakgae of current due to the dew or rust	Replace the defective parts or components

8. HOW TO DISASSEMBLE

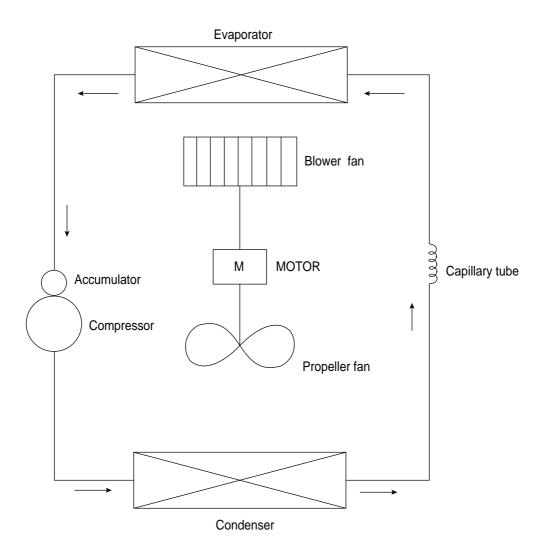
Please refer to the chapter 11 (Exploded diagram and parts list).

1	Before service of	Stop the unit, remove the power cord from the receptacles.
	any part.	2. Move the unit to the safe location for the suitable work.
2	Ass'y Fan Motor	1. Remove Front Grill
	- Fan Motor	- Remove Filter Pre.
	- Propeller Fan	- Remove screw(1 point) in Front Grill.
	- Blower Fan	2. Remove Cabinet from the unit.
		- Remove screws (8 point) from the unit's sides.
		3. Remove Screw (1 point) from Panel Housing's Side and Remove Holder EVA.
		4. Remove Ass'y Control Box
		- Remove screws (5 point).
		- Remove wires in the each components.
		5. Remove Plate Scroll
		6. Remove wires in the Panel Housing.
		7. Remove screws (7 point) from Ass'y Fan Motor's sides.
		- Ass'y Fan Motor is assembly of Fan Motor, Propeller and Blower Fan, Orifice
		and Panel Housing.
		8. Lift the Ass'y Fan Motor from the unit.
		9. Remove Clip Fan (2 point) from the shaft of Fan Motor.
		10. Remove Propeller Fan from the shaft of Fan Motor.
		11. Remove Blower Fan from the shaft of Fan Motor.
		12. Remove Scroll
		13. Remove Fan Motor from Panel Housing.
		- Remove screws (4 point).
3	Ass'y Control Box - Rotary Switch (selector)	1. Same as the procedure 1 to 4 in the Item 2.
	- Thermostat	
	- Capacitor	
	- Power Cord	
4	O.L.P	1. Same as the procedure 1 to 2 in the Item 2.
		Remove Terminal Cover from Compressor.
		- Remove hex-nut (1 point).

9. WIRING DIAGRAM



10. REFRIGERANT CYCLE



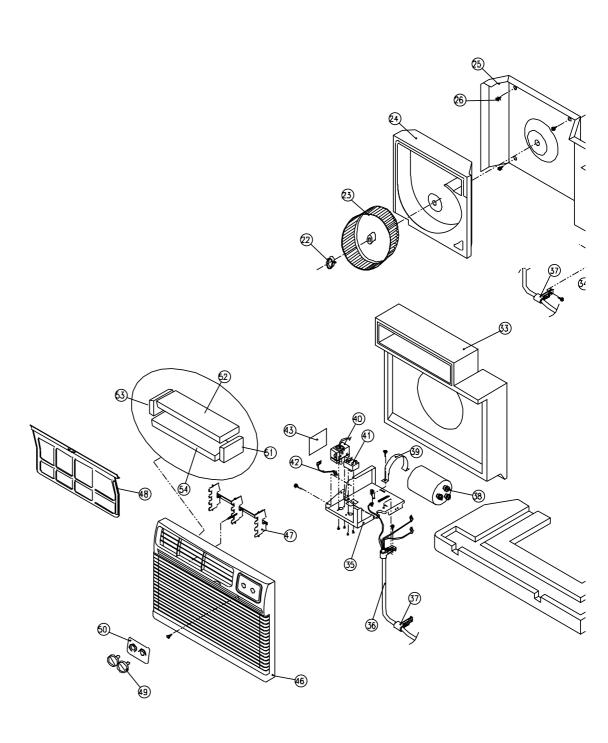
11. EXPLODED DIAGRAM AND PARTS LIST.

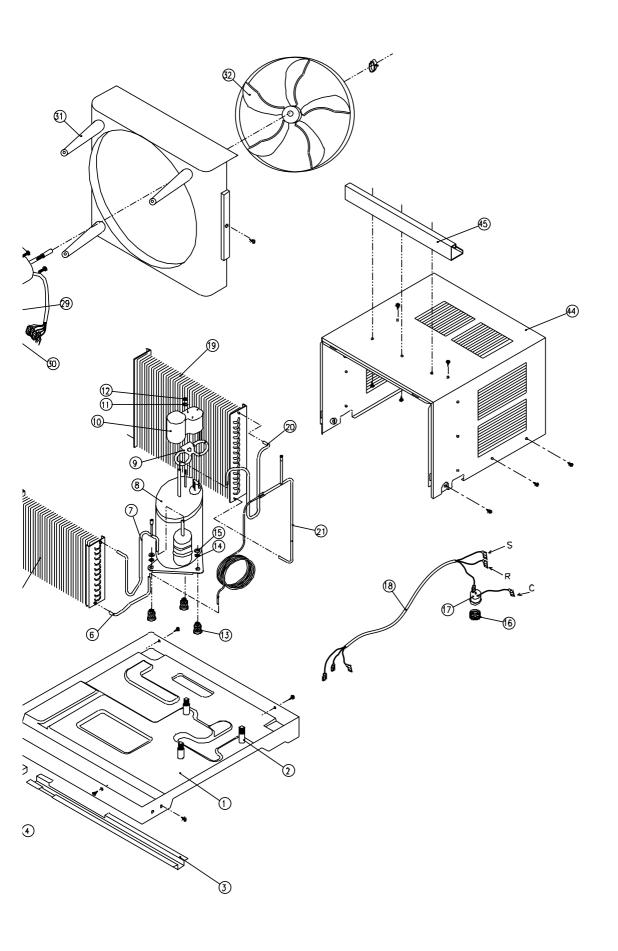
■ DWC-052C,DWB-052C PARTS LIST

✔ Caution: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

NO	CODE	COMPONENTS	Q'TY	SPECIFICATION	REMARK
1	3110300100	PAN BASE	1	SGCC T1.0	KEWAKK
2	3116000100	COMP BOLT	3	M8	DWC-052C
	3116000400	COMP BOLT	3	M8	DWB-052C
3	3112500100	GUIDE WIN LOWER	1	SGCC T0.8	DWC-052C
4	3118100100	PAN DRAIN	1	EPS	
5	3110000200	AS EVA	1	2R1C, 330X209X25	
6	3114400300	PIPE EVA IN	1	C1220T-OL, OD7.0XT0.7	
7	3110001900	AS PIPE SUCTION	1	C1220T-OL, OD7.94XT0.7	DWC-052C
	3110005600	AS PIPE SUCTION	1	C1220T-OL, OD7.94XT0.7	DWB-052C
8	3117100100	AS COMPRESSER AS COMPRESSER	1	RM5455GQ87 KH091VFHC	DWC-052C
9	3117100800	GASKET	1 1	KHU91VFHC	DWB-052C
10	<u>-</u>	TERMINAL COVER	1		
11	<u> </u>	GASKET NUT	1		+
12	-	NUT FLANGE	1		
13	(AHT941C003)	GROMMET	3	EPDM	DWC-052C
'	3116000300	GROMMET	3	EPDM	DWB-052C
14	-	WASHER	3		
15	-	NUT	3		
16	-	SPRING	1		
17	-	OVERLOAD PROTECTOR	1		
18	3112700300	HARNESS COMP	1	UL1015 3*16AWG	
19	3110000300	ASSY CONDENSER	1	2R1C, 380X304X25	
20	3114400100	PIPE DISCHARGE	1	C1220T-OL, OD6.35	DWC-052C
	3114401600	PIPE DISCHARGE	1	C1220T-OL, OD6.35	DWB-052C
21	3110002000	AS PIPE CAPILLARY	1	ID1.0, OD3.2X1000	
22	3101202800	CLIP FAN	2	SK5	
23 24	3111800100 3116600100	FAN BLOWER SCROLL	1 1	ABS730 EPS	
25	3114200100	PANEL HOUSING	1	SGCC T0.8	+
26	7122401211	SCREW	3	T2S 4X12	+
27	3118000100	MOTOR FAN	1	A9520KC030(DMI)	DWC-052C
-'	3118000400	MOTOR FAN	1 1	(S.W)	DWC-052C
	3118000500	MOTOR FAN	1	(O.S)	DWC-052C
	3118000800	MOTOR FAN	1	A9520CC020(DMI)	DWB-052C
28	7S432X2081	SCREW TAPTITE	4	TT3 TRS 3X8 MFZN	
29	3113800400	LOCK TWIST STANDOFF	1	DASTL-3NA	
30	3110700100	BUSHING	1	DACB-012(73MM)	
31	3111400100	COVER ORIFICE	1 1	PP(M540)	
32	3111800200	FAN PROPELLER	1	ABS+GF	
33	3114500300	PLATE SCROLL	1	EPS .	
34 35	3113000100	HOLDER EVA BOX CONTROL	1 1	SGCC TO.6	
36	3110500100 3111300100	CORD POWER		SGCC T0.6 125V, 13A, SJT3*16AWG	DWC-052C
30	3111300300	CORD POWER	1 1	250V, 16A	DWB-052C
37	3111200300	CLAMP POWER CORD	2	PP	DVVB-0320
38	3116900100	CAPACITOR	1	4/40µF 370V	DWC-052C
	3116900200	CAPACITOR	1	4/40µF 370V	DWC-052C
	3116900800	CAPACITOR	1	2/13µF 400V	DWB-052C
39	3111200100	CLAMP CAPACITOR	1	SGCC T0.6	DWC-052C
	3101200600	CLAMP CAPACITOR	1	SGCC T1.0	DWB-052C
40	3118500100	THERMOSTAT	1	125/250VAC,20/80A,16~31°C	
	3118500200	THERMOSTAT	1	125/250VAC,20/80A,16~31°C	
41	3118500300	ROTARY S/W	1	SRB-315-4-10D	
42	3112700200	HARNESS ROTARY	1	UL1015 16AWG 105¢™	+
43	3113500400	LABEL CIRCUIT	1	ART PAPER SGCC T0.6	
44 45	3110800100 3112500200	CABINET GUIDE WINDOW TOP	1 1	SGCC T0.8	DWC-052C
46	3112400200	GRILLE FRONT	1	HIPS	D110-0020
47	3116500100	BLADE VERTICAL	1	PP	+
48	3111900200	FILTER	1	HIPS	
49	3110001400	AS KNOB	2	ABS720	
50	3111600100	DECO FRONT	1	PC FILM	
51	3118400100	SEAL G/FRONT(1)	1	F-PE	DWB-052C
52	3110012400	ASS'Y SEAL G/FRONT(2)	1	F-PE	DWB-052C
I E2			1 4 1	E DE	DIAID OFOO
53 54	3110012500 3118400200	ASS'Y SEAL G/FRONT(3) SEAL G/FRONT(4)	1 1	F-PE F-PE	DWB-052C DWB-052C

■ DWB-052C, DWC-052C EXPLODED DIAGRAM





DAEWOO ELECTRONICS CO., LTD.

686, AHYEON-DONG MAPO-GU SEOUL, KOREA C.P.O. BOX 8003 SEOUL, KOREA TELEX: DWELEC K28177-8

CABLE: "DAEWOOELEC" FAX: 02) 590-6291

S/M NO.: DWC052C020

TEL: 02) 360-7114/590-6151~5 http://www.dwe. daewoo.co.kr

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Service Manual

Window Type Room Air Conditioner

Model: DWB-052C DWC-052C

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