

Air Conditioner Service Manual



Большая библиотека технической документации

каталоги, инструкции, сервисные мануалы, схемы.



MODEL: AC-S10CEGV1

Model No.: AC-S10CEGV1.doc



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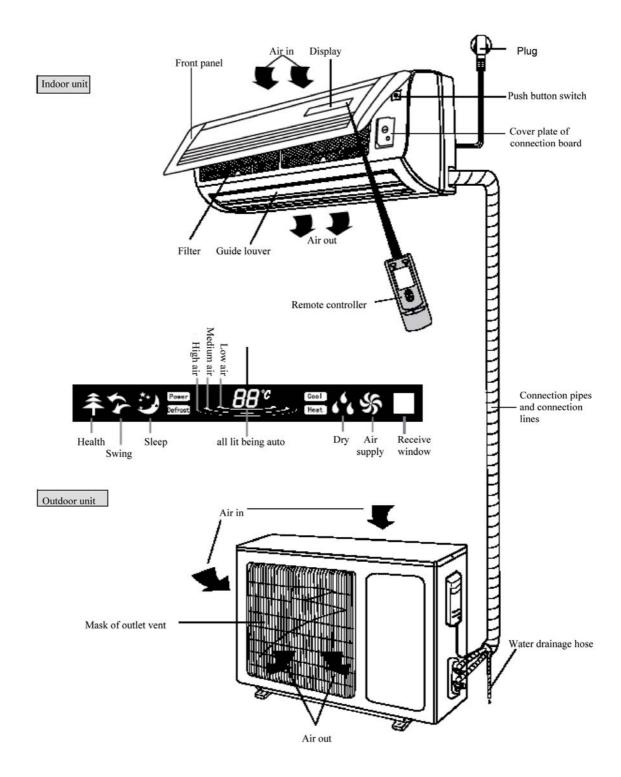
TECHNICAL SPECIFICATION

Content		AC-S10CEGV1
		Cooling
		1Ph 220-240V- 50Hz
		2600
1 3 \ /		740
Rated current (A))	3.4
Dehumidifying volum	e (L/h)	1.3
C.O.P/ EER (W/W)		3.51
(, , , ,)	Fan speed (r/min)(H/M/L)	960/840/760
	Output power (W)	6
	Fan type-piece	Cross flow fan-1
	Diameter-length(mm)	Ф 92х616
	Evaporator	Aluminum fin-copper tube
	Pipe diameter	Ф 7
	Row-fin distance (mm)	2-1.4
	• /	0.18
Indoor side	Working area (m ²) Guide air motor	MP24GA/MP24CA
		2
	Motor power (W) Control method/Fuse (A)	3.15
		5.15
	Running capacity (µF) Noise dB (A)	32
	Outline dimensions (W/D/H)(mm)	
	Package dimensions (W/D/H)(mm)	875X378X266
	Net weight/Gross weight (kg)	11/14
	Rated power (A)	710
	Rated current (A)	3.26
	Throttling method	Capillary
	Compressor type	Rotary
	Starting method	Capacitor starting
	Working temperature	T1 (18~43 °C)
	Condenser	Aluminum fin cooper tube
	Pipe diameter	•
	*	Ф9.52
Outdoor unit	Row Nofin distance (mm)	2-1.4
Outdoor unit	Working area (m ²)	0.33
		48/850 Axial flow fan-1
	Fan type-piece	
	Fan blade diameter (mm)	Φ400
	Defrost method auto defrost	-
	Noise dB (A)	52
		840X540X320
	Package dimensions (W/D/H)(mm)	
	Net weight/Gross weight (kg)	40
	Refrigerant/refrigerant filling (kg)	R22/950

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PARTS NAME



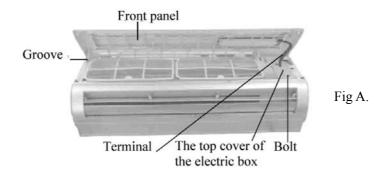
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DISASSEMBLY PROCEDURES OF INDOOR UNIT

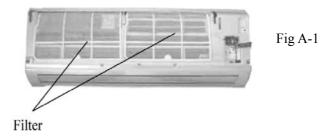
Disassemble the front panel.

Pull the panel open. Firstly, unscrew the screw fixing the top cover of the electric box and remove the top cover. Then, pull away the connection terminal. Pull the panel outward with force along the groove fixing the panel of the panel body to remove the as shown in Fig A.



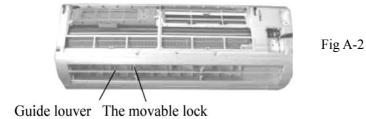
Disassemble filter

Push the filter inward and then upward to remove the filter as shown in Fig A-1



Disassemble the guide louver

Bend the guide louver so that the movable lock of guide louver is released to remove the guide louver as shown in Fig A-2

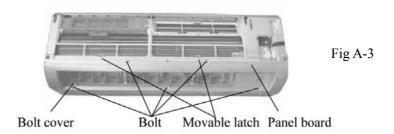


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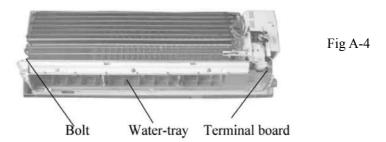
Disassemble the panel board

Open the 3 screw covers at the panel board and screw off 5 screws. Pull out the movable latch at the panel board with hand and then pull it backwards to disassemble the panel board as shown in Fig A-3



Disassemble the water tray

Screw off the fixing screws fixing the water tray with a screwdriver, and pull out the terminal board of the step motor. Pull upwards the water tray. Remove the water tray as shown in Fig A-4



Disassemble electric box

Open three movable latches with hand and then pull them upward to remove the cover of electric box as shown in Fig A-5

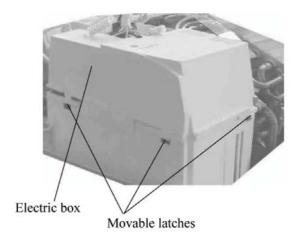


Fig A-5

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Disassemble electric box

Remove the grounding wire of the evaporator, and remove the temperature senor for the pipe. Remove the connection lines for the indoor motor. Screw off the screws fixing the electric box with a screwdriver. Remove the electric box as shown in Fid A-6

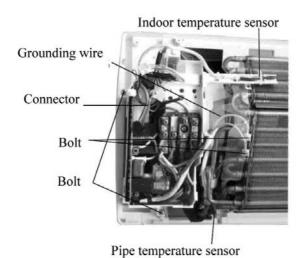
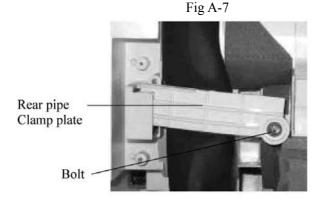
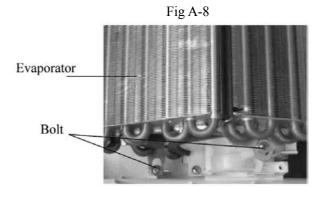


Fig A-6

Disassemble evaporator

The lower rear clamp plate can be removed by just screwing off one screw with a screwdriver. Screw off two screws at both left/right sides of the evaporator and take out the evaporator with hand, so that the sideboard catch of the evaporator is disengaged from the groove. Remove the evaporator carefully and take care to protect the connection pipe as shown in Fig A-7, A-8, A-9:





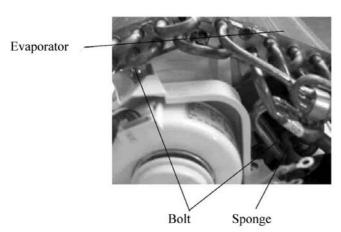


Fig A-9

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Disassemble motor

Screw off the two screws fixing the motor pressure plate with a screwdriver and remove the pressure plate. Screw off the three fixing screws at the axle sleeve and remove the motor as shown in Fig A-10, A-11

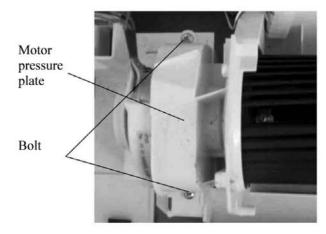


Fig A-10

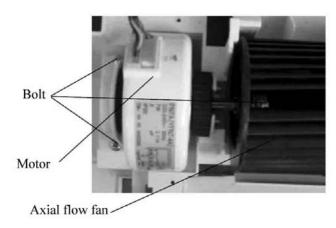


Fig A-11



Disassemble cross flow fan

Screw off one screw fixing the bearing rubber gasket with a screwdriver and remove the bearing rubber gasket. In this case, the cross flow fan can be removed as shown in Fig A-12.

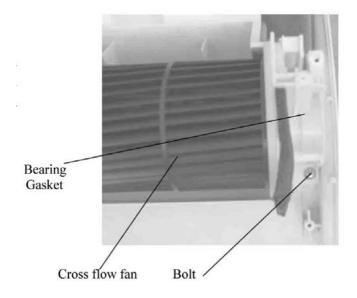


Fig A-12

Auxiliary electric heater

(Note: only existing in cooling/heating units)

Screw off 2 screws fixing the auxiliary electric heater with a screwdriver as shown in Fig A-13

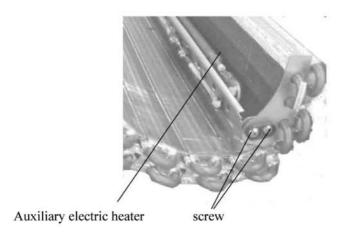


Fig A-13

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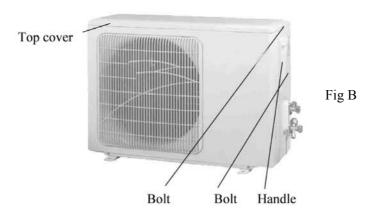


DISASSEMBLE PROCEDURES OF OUTDOOR UNIT

Disassemble the top cover

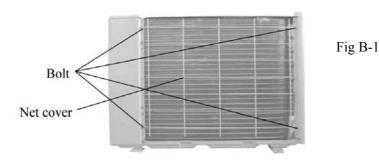
Screw off one screw fixing the handle with a screwdriver and remove the handle after pushing downward with force.

Screw off three screws around the top cover and pull upward to remove the top cover as shown in Fig B



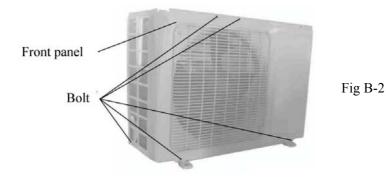
Remove the net cover

Screw off 4 taping screws at the rear sideboard, and the valve frame bottom plate and condenser sideboard. Remove the net cover as shown in Fig B-1



Disassemble panel assembly

Screw off 5 screws at the rear sideboard and the valve frame bottom plate and the condenser sideboard. Remove the front panel assemble as shown in Fig B-2

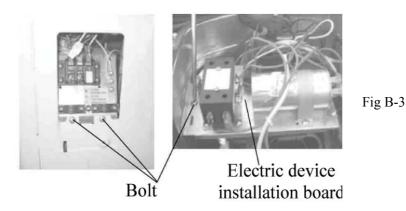


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Disassemble electric device installation board

Screw off the 3 screws fixing the electric device installation board, and pull out the inserting contacts for leads of compressor and fan motor, and remove the electric device installation board as shown in Fig B-3.



Disassemble right side plate assembly

Screw off the 5 screws at the rear side plate to remove the right side plate assembly as shown in Fig B-4.

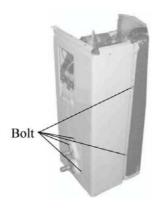


Fig B-4

Disassemble right side plate assembly

Screw off the 5 screws at the rear side plate to remove the right side plate assembly as shown in Fig B-5.

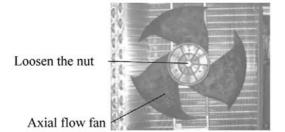


Fig B-5

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Disassemble motor and motor support

Screw off the 4 taping screws fixing the motor and remove the motor. Screw out the 2 taping screws and remove the motor support by pulling upwards as shown in Fig B-6

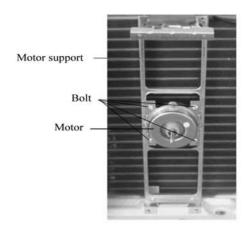


Fig B-6

Disassemble 4-way valve(Only existing in cooling /heating unit)

Screw off the fixing nuts for the fixing the solenoids of 4-way valve and remove the solenoid. Wrap the 4-way valve with wet gauze and solder off the 4 soldering points of 4-way valve, remove the 4-way valve. It is recommended to solder as quickly as possible and the cotton gauze should always be wet. Make sure not to burn the leads of compressor as shown in Fig B-7.

(Remarks: prior to disassembling any pipe component or compressor, it should be sure that no cooling refrigerant left inside any more.)

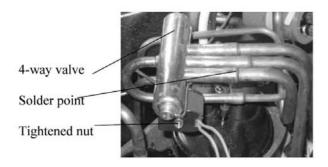


Fig B-7

Disassemble liquid divider assembly

Solder off the soldering points connecting the liquid divider assembly and other pipes as shown in Fig B-8.

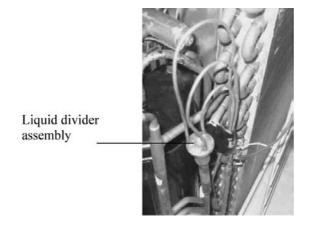


Fig B-8

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Disassemble big and small valves

Screw off the 2 screw bolts fixing the big valve and solder off the soldering point connecting the big valve and the gas returning pipe. Remove the big valve.

(Remarks: It is recommended to wrap the big valve with wet gauze completely when soldering off the soldering points to prevent the valve body from being damaged by high temperature).

Screw off the 2 screwed bolts fixing the small valve, and solder off the soldering point connecting the small valve and the cross type pipe. Remove the small valve as shown in Fig B-9.

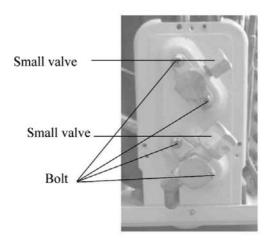


Fig B-9

Disassemble the compressor

Screw off the 3 washer nuts at the bottom legs of the compressor (Remarks: requiring drainage of cooling refrigerant first). Solder off all the soldering points of sucking/discharging pipes for the compressor, and remove carefully the piping. Remove the compressor as shown on Fig B-10.

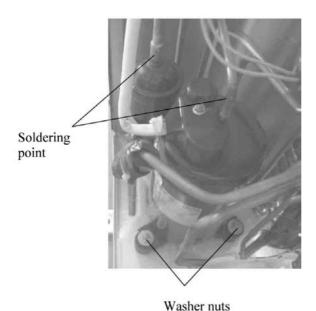
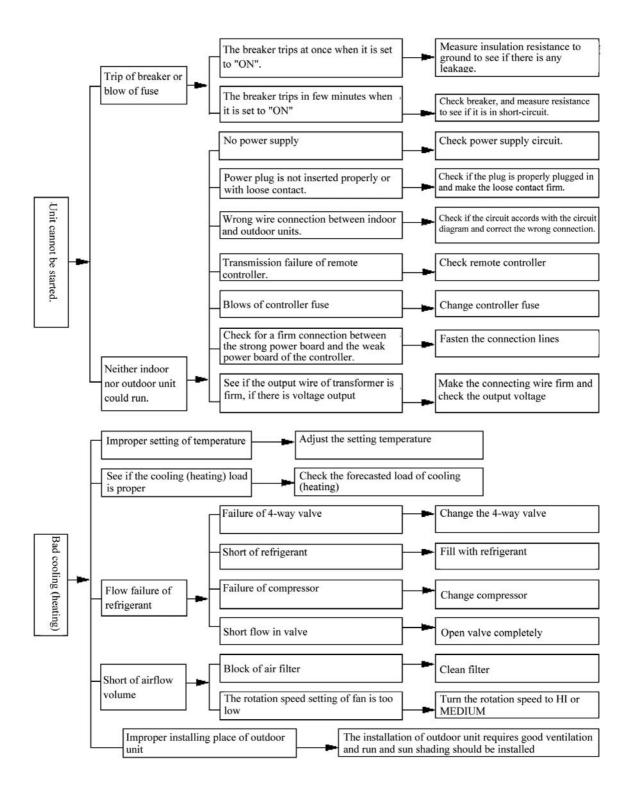


Fig B-10

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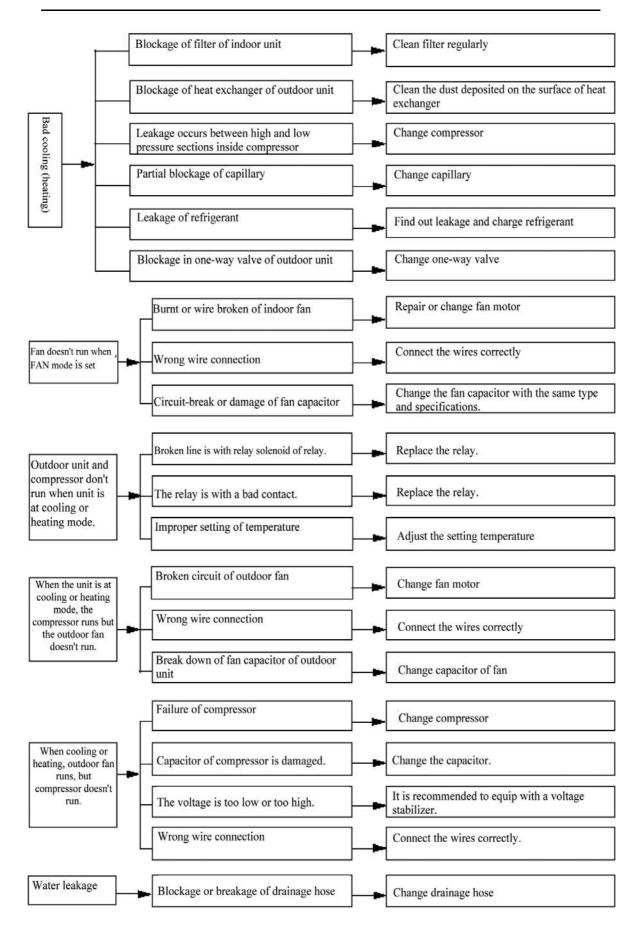


FAILURE AND ANALYSIS



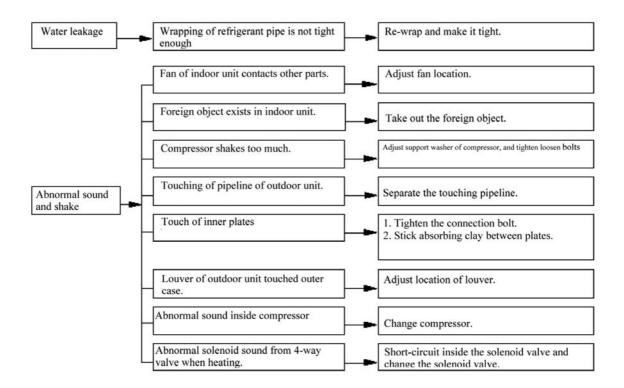
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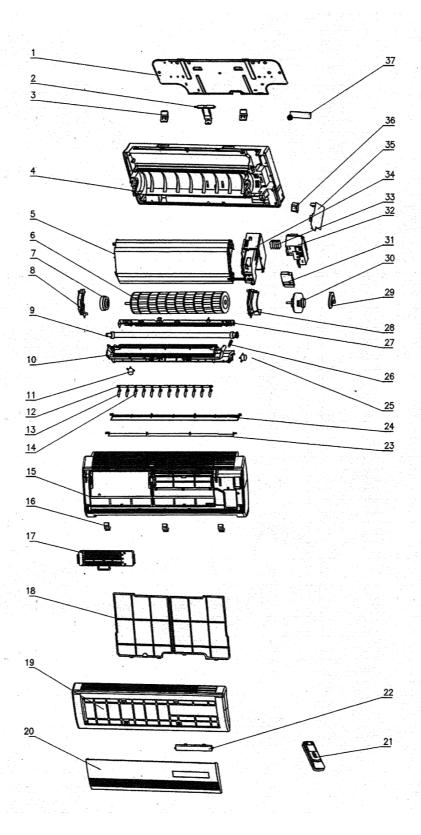




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EXPLODED VIEW OF INDOOR UNIT



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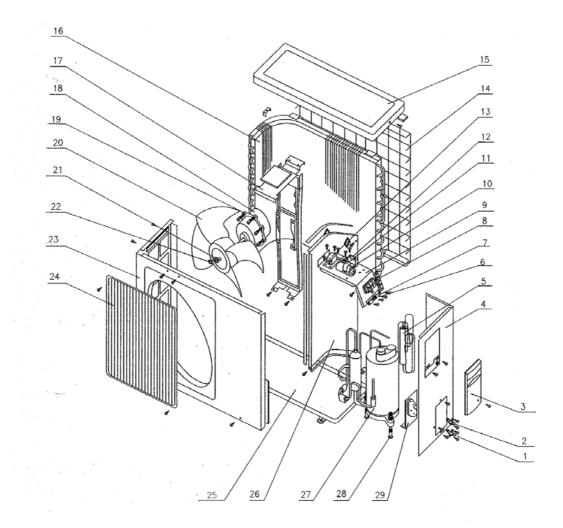


PART LIST

1 Wall-Mounting Frame 01252384 1 2 Pipe Clamp 26112425 1 3 Frame Hook 26272421 1 4 Rear Case 22202037 1 5 Evaporator Ass'y 01032082 1 6 Cross Flow Fan 10352405 1 7 Ring of Bearing 76712015 1 8 Left Motor Clamp 261124281 1 9 Drain Pipe 05232411 1 10 Water Tray 20182034 1 11 Motor MP24CA 15212106 1 12 Swing Link 105824393 1 13 Swing Louver 10512046 2 14 Swing Louver 10512047 10 15 Front Case 20002301 1 16 Screw Cap 242524408 1 17 Static Dust Catcher 11012201 1 18 Filter 111224442 2 19 Front Case 20002301 1 10 Remote Control Y512SB 30515037 1 21 Remote Control Y512SB 30515037 1 22 Display Board 5253F 305452081 1 23 Guide Louver (up) 10512050 1 24 Guide Louver (down) 10512052 1 25 Stepping Motor MP24GA 1521102 1 26 Drain Pan Ass'y stuff 76712005 1 27 Electric Heater 600W 28 Right Motor Clamp 26112429 1 28 Right Motor Clamp 26112429 1 29 Motor Bearing Holder 26152423 1 30 Motor FN6E 150120522 1 31 Electric Box Cover 20122009 1 32 Covering Plate 20102108 1 33 Main PCB 5251FJ 30035444 1 36 Fransformer 57X25C 43110237 1	No.	Part Description	Part No	Qty
Frame Hook 26272421 1	1		01252384	1
44 Rear Case 22202037 1 5 Evaporator Ass'y 01032082 1 6 Cross Flow Fan 10352405 1 7 Ring of Bearing 76712015 1 8 Left Motor Clamp 261124281 1 9 Drain Pipe 05232411 1 10 Water Tray 20182034 1 11 Motor MP24CA 15212106 1 12 Swing Link 105824393 1 13 Swing Louver 10512046 2 14 Swing Louver 10512047 10 15 Front Case 20002301 1 16 Screw Cap 242524408 1 17 Static Dust Catcher 11012201 1 18 Filter 111224442 2 19 Front Case 20002301 1 20 Little Front Panel 1 20002305 1 21 Remote Control Y512SB 30515037	2	Pipe Clamp	26112425	1
Evaporator Ass'y	3	Frame Hook	26272421	1
Cross Flow Fan 10352405 1	4	Rear Case	22202037	1
Ring of Bearing 76712015 1	5	Evaporator Ass'y	01032082	1
Second Column Second Colum	6	Cross Flow Fan	10352405	1
Drain Pipe	7	Ring of Bearing	76712015	1
Water Tray 20182034 1 1 1 Motor MP24CA 15212106 1 1 1 1 1 1 1 1 1	8	Left Motor Clamp	261124281	1
11 Motor MP24CA 15212106 1 12 Swing Link 105824393 1 13 Swing Louver 10512046 2 14 Swing Louver 10512047 10 15 Front Case 20002301 1 16 Screw Cap 242524408 1 17 Static Dust Catcher 11012201 1 18 Filter 111224442 2 19 Front Case 20002301 1 20 Little Front Panel 1 20002305 1 21 Remote Control Y512SB 30515037 1 22 Display Board 5253F 305452081 1 23 Guide Louver (up) 10512050 1 24 Guide Louver (down) 10512050 1 25 Stepping Motor MP24GA 15212102 1 26 Drain Pan Ass'y stuff 76712005 1 27 Electric Heater 600W 2 28 Right Motor Clamp 26152423 1 30 Motor FN6E 150120522 <t< td=""><td>9</td><td>Drain Pipe</td><td>05232411</td><td>1</td></t<>	9	Drain Pipe	05232411	1
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Little Front Panel 1 20002305 1	18	Filter	111224442	2
21 Remote Control Y512SB 30515037 1 22 Display Board 5253F 305452081 1 23 Guide Louver (up) 10512050 1 24 Guide Louver (down) 10512052 1 25 Stepping Motor MP24GA 15212102 1 26 Drain Pan Ass'y stuff 76712005 1 27 Electric Heater 600W 2 28 Right Motor Clamp 26112429 1 29 Motor Bearing Holder 26152423 1 30 Motor FN6E 150120522 1 31 Electric Box Cover 20122009 1 32 Covering Plate 20102123 1 33 Terminal Board T4A3A 42011240 1 34 Electric Box 20102108 1 35 Main PCB 5251FJ 30035444 1 36 Transformer 57X25C 43110237 1	19	Front Case	20002301	1
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32 Covering Plate 20102123 1 33 Terminal Board T4A3A 42011240 1 34 Electric Box 20102108 1 35 Main PCB 5251FJ 30035444 1 36 Transformer 57X25C 43110237 1	30		150120522	1
33 Terminal Board T4A3A 42011240 1 34 Electric Box 20102108 1 35 Main PCB 5251FJ 30035444 1 36 Transformer 57X25C 43110237 1	31	Electric Box Cover	20122009	1
33 Terminal Board T4A3A 42011240 1 34 Electric Box 20102108 1 35 Main PCB 5251FJ 30035444 1 36 Transformer 57X25C 43110237 1	32	Covering Plate	20102123	1
34 Electric Box 20102108 1 35 Main PCB 5251FJ 30035444 1 36 Transformer 57X25C 43110237 1	33			1
36 Transformer 57X25C 43110237 1	34	Electric Box	20102108	1
	35	Main PCB 5251FJ	30035444	1
37 Pipe Clamp 24242004 1	36	Transformer 57X25C	43110237	1
	37	Pipe Clamp	24242004	1



EXPLODED VIEW OF OUTDOOR UNIT



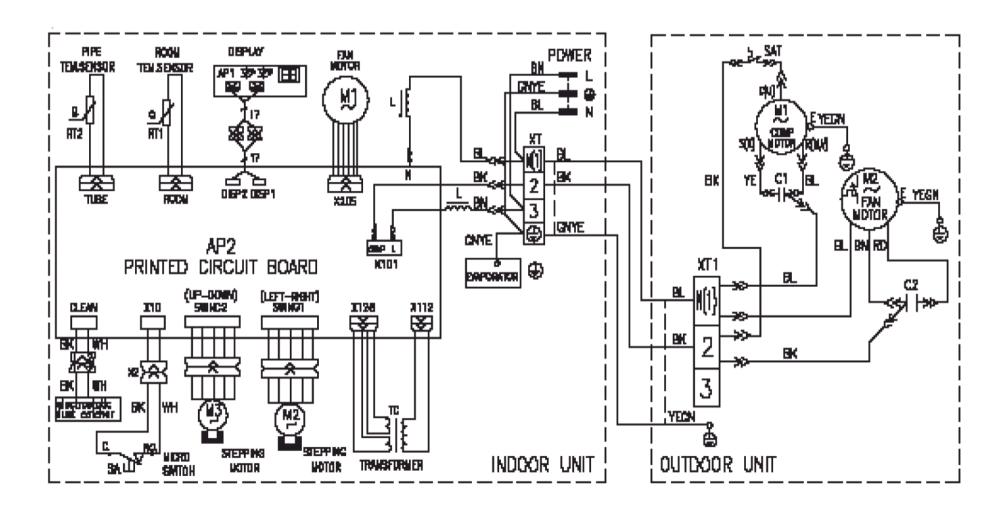


PART LIST

No.	Part Description	Part No	Qty
1	Valve 1/4	07100024	1
2	Valve 3/8AA	07100145	1
3	Big Handle	26233433	1
4	Right Side Plate Ass'y	01302004	1
5	Capillary Ass'y	03003339	1
6	Isolation Washer D	70410525	1
7	Wire Clamp	71010103	1
8	Terminal Board (3M) T386A	42011241	1
9	Electric Box	01403117	1
10	Capacitor CBB65 30uF/450V	33000018	1
11	Capacitor Clamp	02143401	1
12	Capacitor 2.5uF/450V	33010026	1
13	Terminal Board (3M) T386A	42011241	1
14	Rear Grill	01473030	1
15	Top Cover Ass'y	01253261	1
16	Condenser Ass'y	01133369	1
17	Motor Support	01703391	1
18	Motor FW30K	15013067	1
19	Self-threading Screw ST4.8x13	70140259	4
20	Axial Flow Fan	10333413	1
21 22	Washer 6	70410252	1
22	Nut with Washer M6	70310131	1
23 24 25	Front Plate	015330121	1
24	Front Grill	22413431	1
25	Base Plate	01213429	1
26	Clapboard	01233417	1
27	Compressor	00100275	1
28	Nut with Washer M8	70310014	3
29	Valve Support	01713043	1



CIRCUIT DIAGRAM



Model No.: AC-S10CEGV1.doc

