

9.3 Maintenance Method for Normal Malfunction

1. Air Conditioner Can't be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
No power supply, or poor connection for power plug	After energization, operation indicator isn't bright and the buzzer can't give out sound	Confirm whether it's due to power failure. If yes, wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.
Wrong wire connection between indoor unit and outdoor unit, or poor connection for wiring terminals	Under normal power supply circumstances, operation indicator isn't bright after energization	Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly
Electric leakage for air conditioner	After energization, room circuit breaker trips off at once	Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.
Model selection for air switch is improper	After energization, air switch trips off	Select proper air switch
Malfunction of remote controller	After energization, operation indicator is bright, while no display on remote controller or buttons have no action.	Replace batteries for remote controller Repair or replace remote controller

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see it's blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation position is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unit's pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unit's pressure is much lower than regulated range. If refrigerant isn't leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver can't swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor can't operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor can't operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 5 of maintenance method for details

3. Horizontal Louver Can't Swing

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Stepping motor is damaged	Stepping motor can't operate	Repair or replace stepping motor
Main board is damaged	Others are all normal, while horizontal louver can't operate	Replace the main board with the same model

4. ODU Fan Motor Can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of the ODU fan motor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the capacity of fan
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Motor of outdoor unit is damaged	When unit is on, cooling/heating performance is bad and ODU compressor generates a lot of noise and heat.	Change compressor oil and refrigerant. If no better, replace the compressor with a new one

5. Compressor Can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of compressor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the compressor capacitor
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Coil of compressor is burnt out	Use universal meter to measure the resistance between compressor terminals and it's 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor can't operate	Repair or replace compressor

6. Air Conditioner is Leaking

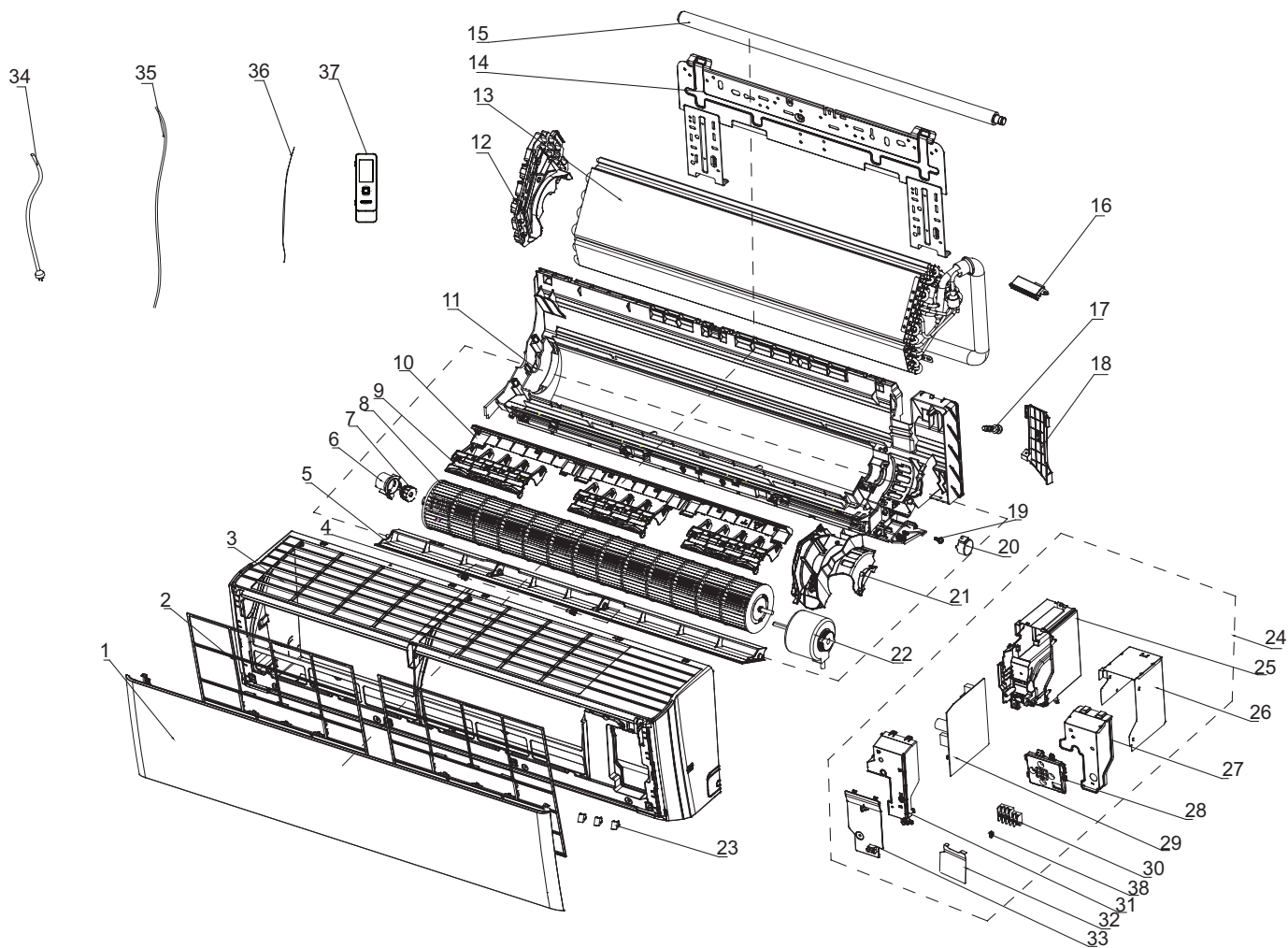
Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Drain pipe is blocked	Water leaking from indoor unit	Eliminate the foreign objects inside the drain pipe
Drain pipe is broken	Water leaking from drain pipe	Replace drain pipe
Wrapping is not tight	Water leaking from the pipe connection place of indoor unit	Wrap it again and bundle it tightly

7. Abnormal Sound and Vibration

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
When turn on or turn off the unit, the panel and other parts will expand and there's abnormal sound	There's the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
When turn on or turn off the unit, there's abnormal sound due to flow of refrigerant inside air conditioner	Water-running sound can be heard	Normal phenomenon. Abnormal sound will disappear after a few minutes.
Foreign objects inside the indoor unit or there're parts touching together inside the indoor unit	There's abnormal sound fro indoor unit	Remove foreign objects. Adjust all parts' position of indoor unit, tighten screws and stick damping plaster between connected parts
Foreign objects inside the outdoor unit or there're parts touching together inside the outdoor unit	There's abnormal sound fro outdoor unit	Remove foreign objects. Adjust all parts' position of outdoor unit, tighten screws and stick damping plaster between connected parts
Short circuit inside the magnetic coil	During heating, the way valve has abnormal electromagnetic sound	Replace magnetic coil
Abnormal shake of compressor	Outdoor unit gives out abnormal sound	Adjust the support foot mat of compressor, tighten the bolts
Abnormal sound inside the compressor	Abnormal sound inside the compressor	If add too much refrigerant during maintenance, please reduce refrigerant properly. Replace compressor for other circumstances.

10. Exploded View and Parts List

10.1 Indoor Unit

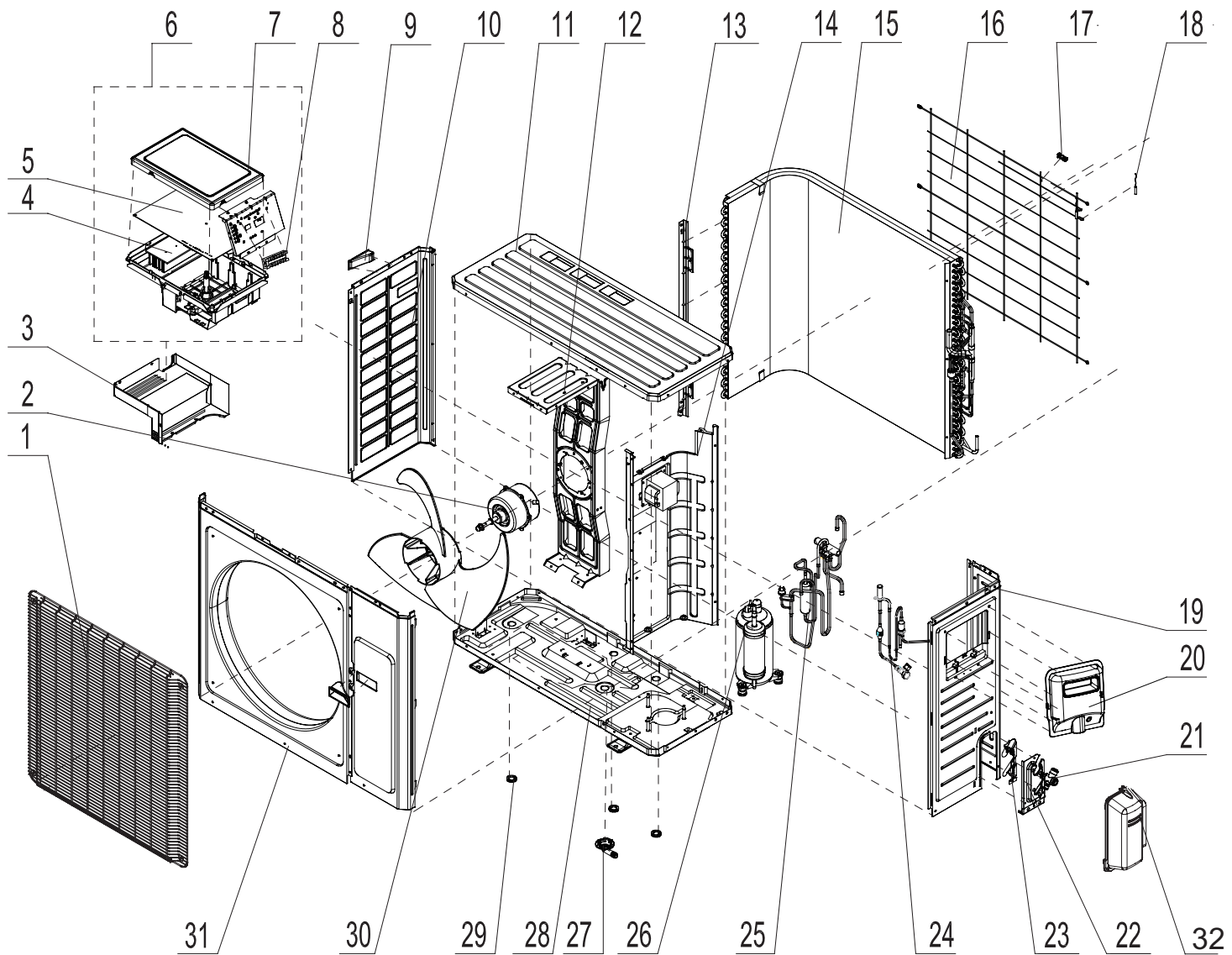


The component picture is only for reference; please refer to the actual product.

No.	Description	Part Code		Qty
		GWH18YE-S6DBA2A/I	GWH24YE-S6DBA2A/I	
	Product Code	CB466N00400	CB466N00300	
1	Front Panel(low display)	200003000063	200003000063	1
2	Filter Sub-Assy	11012007	11012007	2
3	Front Case Sub-Assy	0000020006401	0000020006401	1
4	Axile Bush	10542036	10542036	2
5	Guide Louver	10512503	10512503	1
6	Ring of Bearing	26152025	26152025	1
7	O-Gasket of Cross Fan Bearing	76512203	76512203	1
8	Cross Flow Fan	10352057	10352057	1
9	Air Louver(Manual)	10512744	10512744	1
10	Helicoid Tongue	26112513	26112513	1
11	Rear Case assy	00000100170	00000100170	1
12	Evaporator Support	24212178	24212178	1
13	Evaporator Assy	011001000180	011001000095	1
14	Wall Mounting Frame	01252229	01252229	1
15	Drainage Hose	0523001405	0523001405	1
16	Cold Plasma Generator	1114001602	1114001602	1
17	Rubber Plug (Water Tray)	76712012	76712012	1
18	Connecting pipe clamp	26112514	26112514	1
19	Crank	73012005	73012005	1
20	Stepping Motor	1521240210	1521240210	1
21	Motor Press Plate	26112515	26112515	1
22	Fan Motor	1501213601	1501213601	1
23	Screw Cover	22242191	22242191	3
24	Electric Box Assy	100002001817	100002000608	1
25	Electric Box	20112211	2011221102	1
26	Lower Shield of Electric Box	01592139	01592139	1
27	Shield Cover of Electric Box	01592176	01592176	1
28	Display Board	300001000095	300001000095	1
29	Main Board	300002000101	300002000101	1
30	Terminal Board	42011233	42011233	1
31	Electric Box Cover	20112209	2011220901	1
32	Electric Box Cover2	20112210	2011221001	1
33	Shield Cover of Electric Box Cover 2	01202000099	01202000099	1
34	Connecting Cable	4002052317	4002052317	0
35	Connecting Cable	/	/	/
36	Temperature Sensor	3900031302	3900031302	1
37	Remote Controller	30510137	30510137	1
38	Jumper	4202021916	4202021908	1

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10.2 Outdoor Unit




The component picture is only for reference; please refer to the actual product.

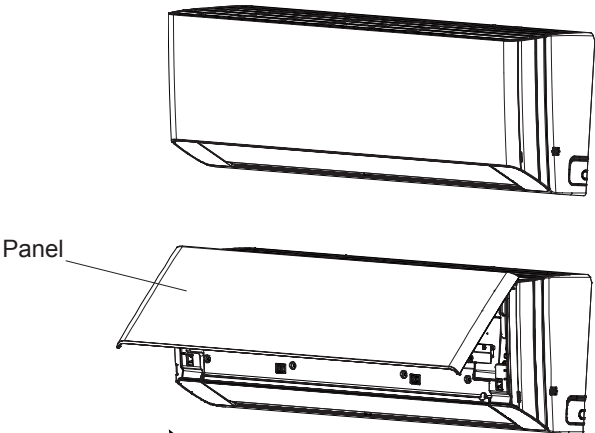
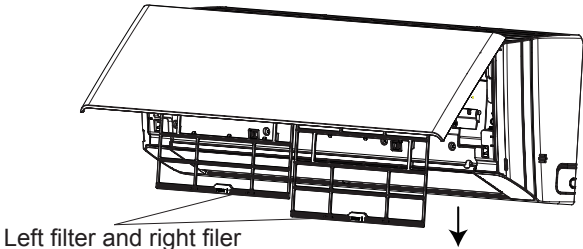
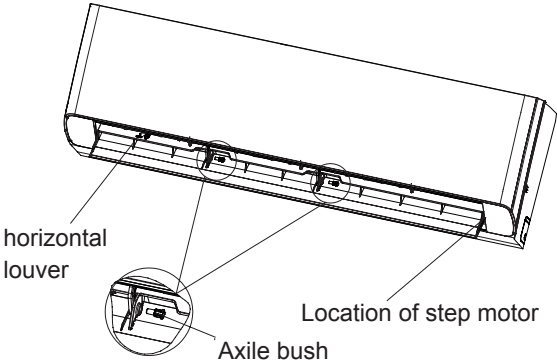
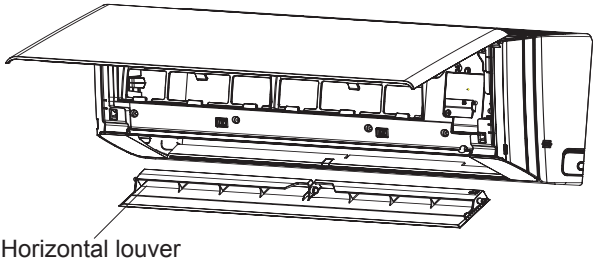
No.	Description	Part Code		Qty
		GWH18YE-S6DBA2A/O	GWH24YE-S6DBA2A/O	
	Product Code	CB466W00400	CB466W00300	
1	Front Grill	22415011	22415011	1
2	Fan Motor	15010400000102	15010400000102	1
3	Electric Box (Fireproofing)	/	/	/
4	Radiator	49015215	4901521501	1
5	Main Board	300027000109	300027000308	1
6	Electric Box Assy	100002001814	100002000609	1
7	Electric Box Cover	20125002	20125002	1
8	Terminal Board	420101943	420101943	1
9	Handle	26233053	26233053	2
10	Left Side Plate	01305043P	01305043P	1
11	Coping	01255006P	01255006P	1
12	Motor Support Sub-Assy	017012000017	017012000015	1
13	Condenser Support Plate	01175092	01175092	1
14	Clapboard Sub-Assy	01235091	017021000067	1
15	Condenser Assy	011002000486	011002000285	1
16	Rear Grill	01475013	01475013	1
17	Wiring Clamp	26115004	26115004	1
18	Temp Sensor	39000072	39000072	1
19	Right Side Plate	0130504401P	0130504401P	1
20	Big Handle	26235001	26235001	1
21	Cut off Valve	0713517901	0713517901	1
22	Valve Support Sub-Assy	0170506101P	0170506101P	1
23	Baffle(Valve Support)	26115007	26115007	1
24	Electronic Expansion Valve	07133909	07133909	1
25	4-Way Valve Assy	030152000260	030152000260	1
26	Compressor and Fittings	00105274	00105274	1
27	Drainage Connector	06123401	06123401	1
28	Chassis Sub-assy	02803315P	017000000166	1
29	Drainage hole Cap	06813401	06813401	3
30	Axial Flow Fan	10335013	10335013	1
31	Cabinet	01435004P	01435004P	1
32	Valve Cover	22245003	22245003	1

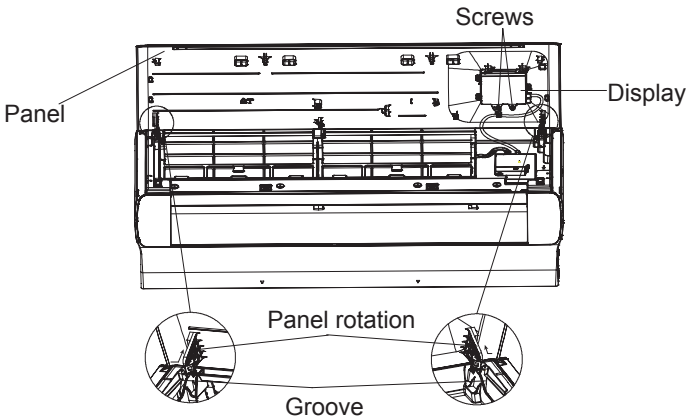
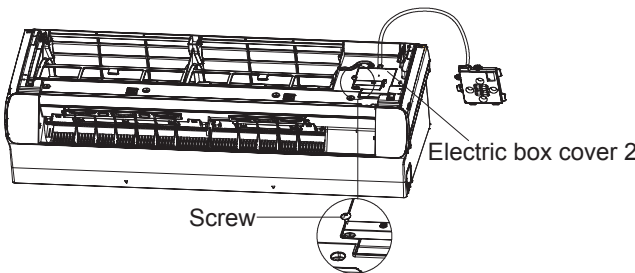
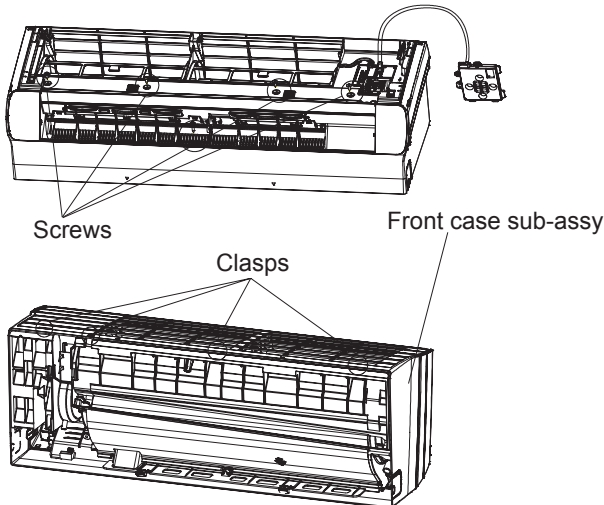
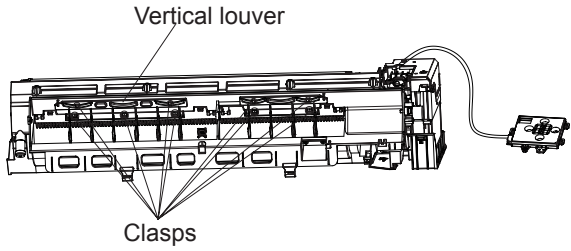
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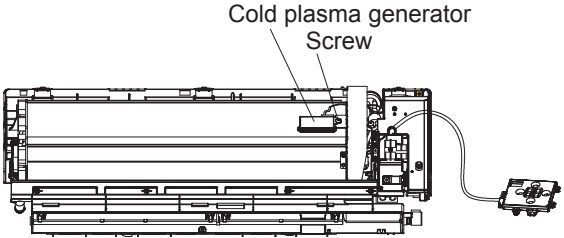
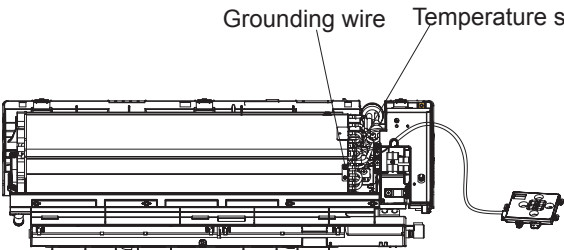
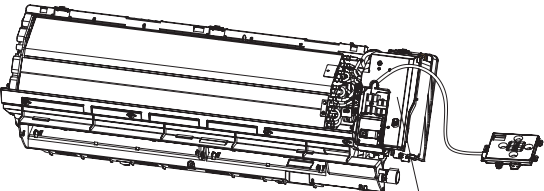
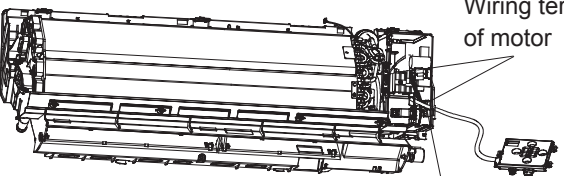
11. Removal Procedure

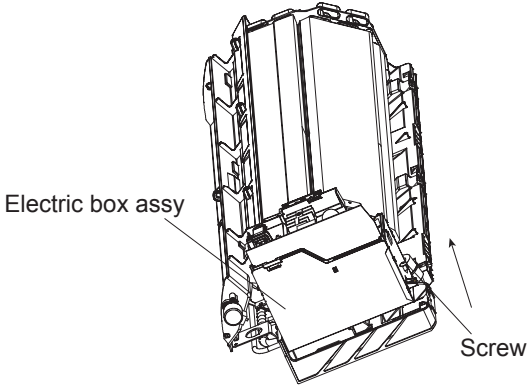
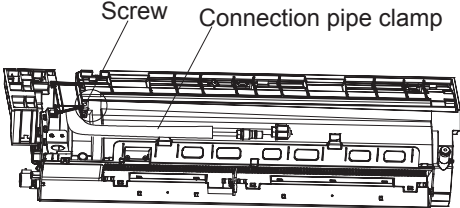
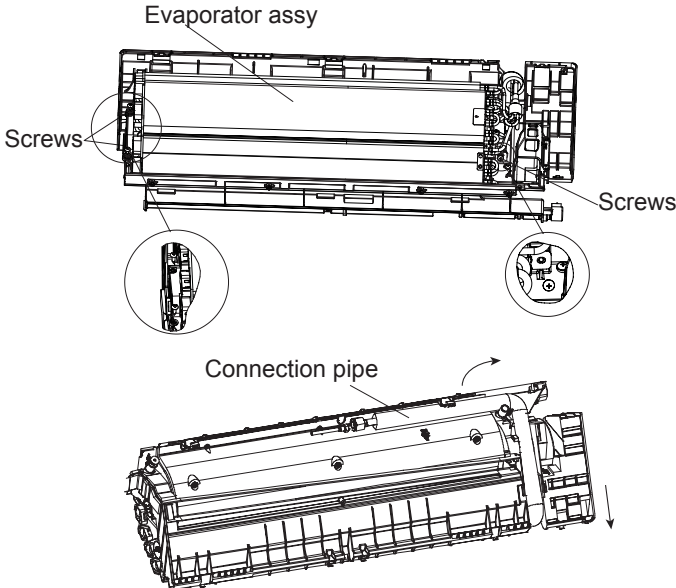
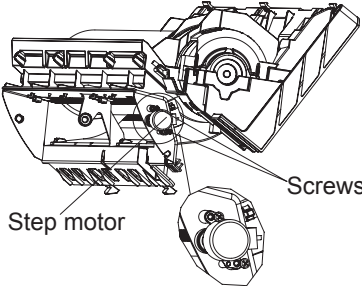
 **Caution:** discharge the refrigerant completely before removal.

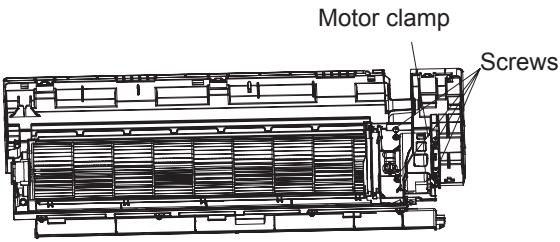
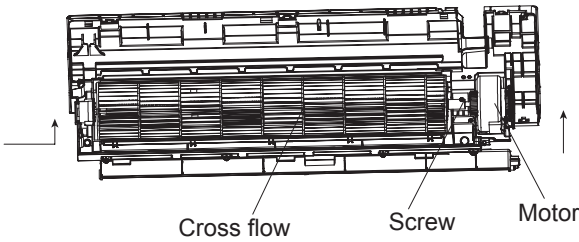
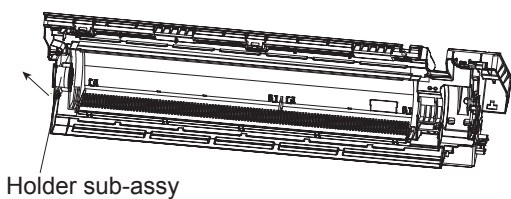
11.1 Removal Procedure of Indoor Unit

Step	Procedure	
1.Remove filter		
a.	Open the panel.	
b.	Loosen the clasp shown and then pull the left filter and right filter outwards to remove them.	
2.Remove horizontal louver		
	Push out the axle bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.	 

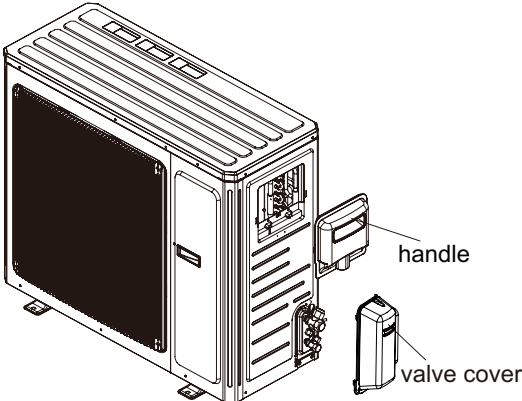
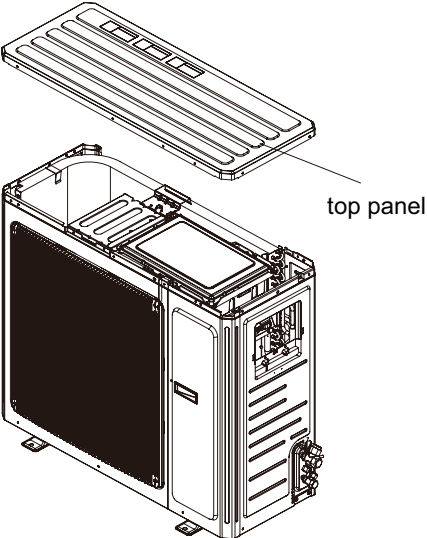
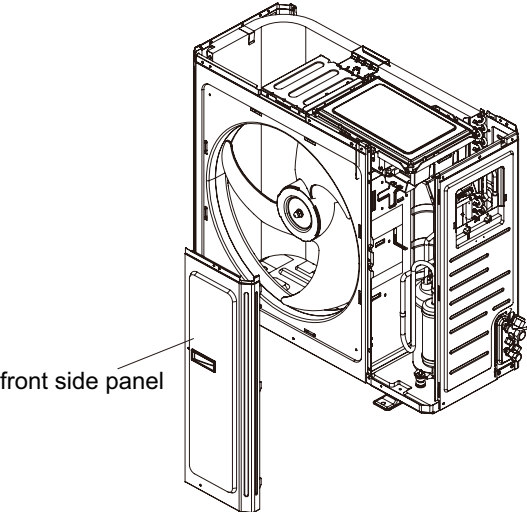
Step	Procedure
3.Remove display and panel	
<p>a. Screws that are locking the display board. Separate the display board from the front panel.</p> <p>b. Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.</p>	
4.Remove electric box cover 2	
Remove the screws on the electric box cover to remove the electric box cover 2.	
5.Remove front case sub-assy	
Remove the screws fixing front case. Loosen the clasps of front case Life the front case sub-assy upwards to remove it.	
6. Remove vertical louver	
Loosen the connection clasps between vertical louver and bottom case to remove vertical louver.	

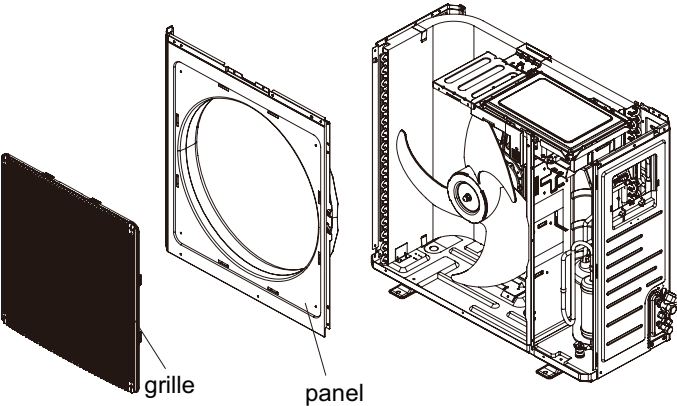
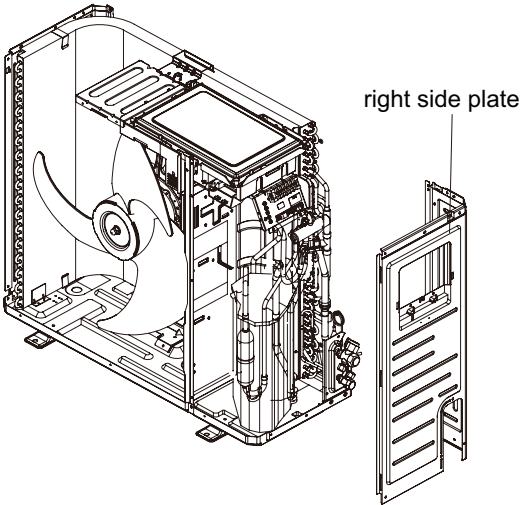
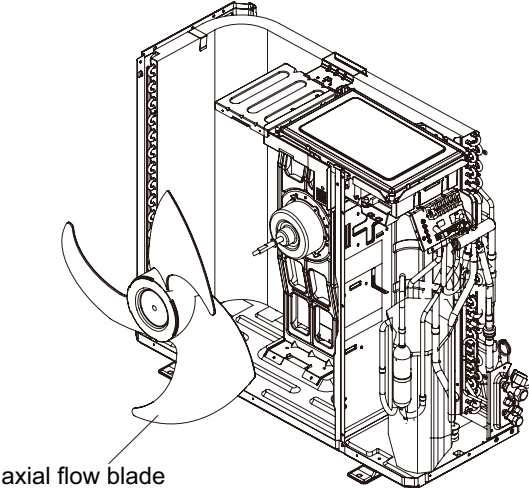
Step	Procedure	
7.Remove cold plasma generator	<p>Screws that are locking the cold plasma generator.Separate the display board from the evaporator assy.</p>	 <p>Cold plasma generator Screw</p>
8.Remove temperature sensor and grounding wire		
8.Remove temperature sensor and grounding wire	<p>Cut off the tieline which binding the temperature sensor and grounding wire on the evaporator, and then pull out the indoor tube temperature sensor from the evaporator. Remove the screws at the connection place between grounding wire and evaporator.</p>	 <p>Grounding wire Temperature sensor</p>
9.Remove shield cover of electric box sub-assy	<p>Loosen the connection clasps between shield cover of electric box sub-assy and electric box, and then remove the shield cover of electric box sub-assy.</p>	 <p>Shield cover of electric box sub-assy</p>
10.Remove wiring terminal		
10.Remove wiring terminal	<p>Pull out the wiring terminal of motor and wiring terminal of step motor from the mainboard. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.</p>	 <p>Wiring terminal of motor Wiring terminal of step motor</p>

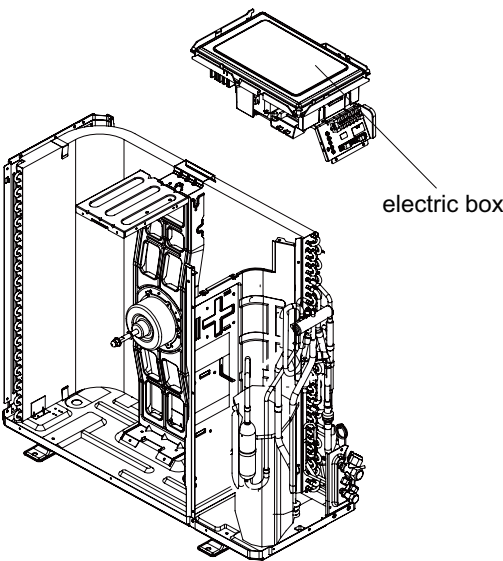
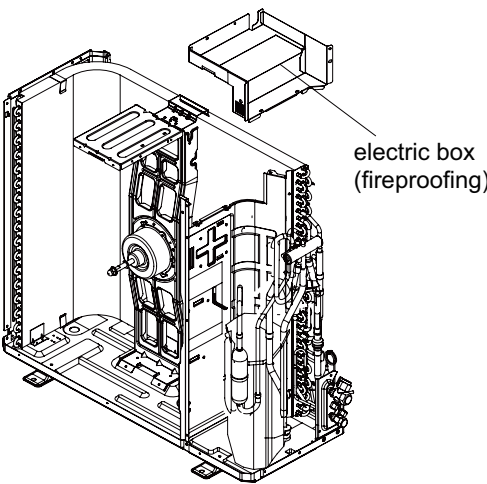
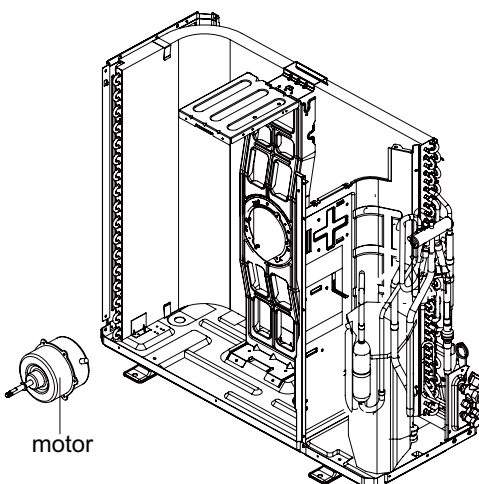
Step	Procedure
11. Electric box assy	
<p>Remove the screw fixing electric box assy and then remove the electric box assy.</p>	 <p>Electric box assy</p> <p>Screw</p>
12. Remove connection pipe clamp	
<p>At the back of the unit, remove the screw fixing connection pipe clamp and then remove the connection pipe clamp.</p>	 <p>Screw</p> <p>Connection pipe clamp</p>
13. Remove evaporator assy	
<p>Remove 3 screws fixing evaporator assy. Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.</p>	 <p>Evaporator assy</p> <p>Screws</p> <p>Screws</p> <p>Connection pipe</p>
14. Remove stepping motor	
<p>Remove the screw fixing step motor and then remove the step motor.</p>	 <p>Step motor</p> <p>Screws</p>

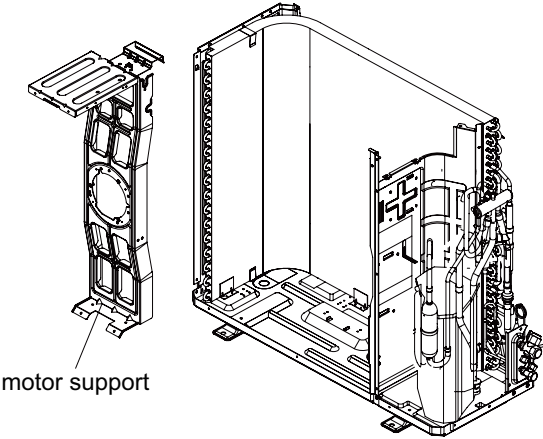
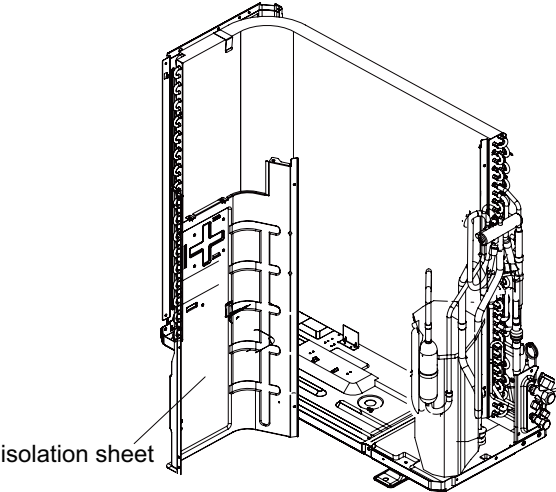
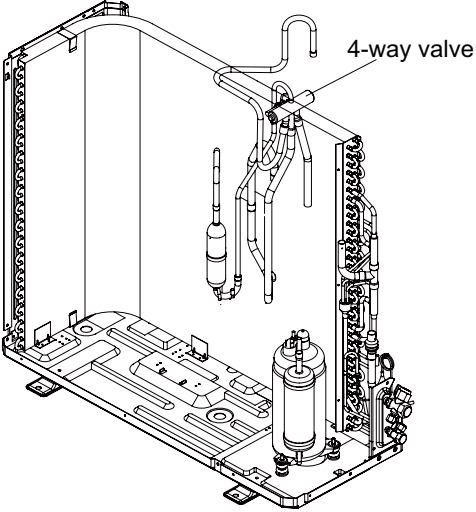
Step	Procedure	
15.Remove motor and cross flow blade		
a.	Remove the screws fixing motor clamp and then remove the motor clamp.	
b.	Remove the screws at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them.	
c.	Remove the bearing holder sub-assy.	

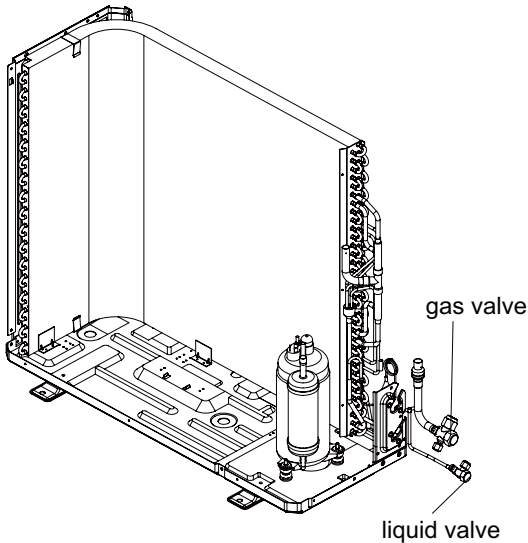
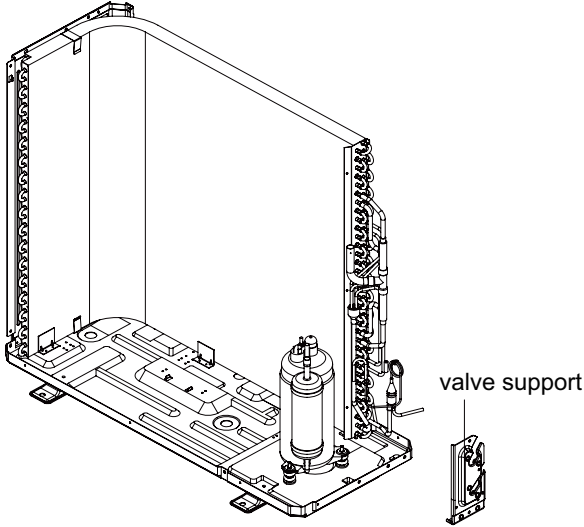
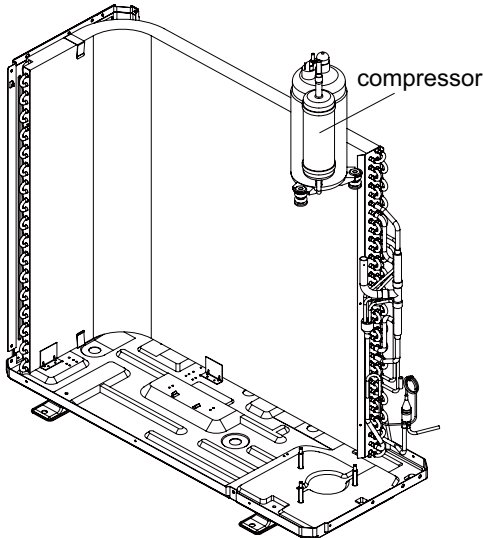
11.2 Removal Procedure of Outdoor Unit

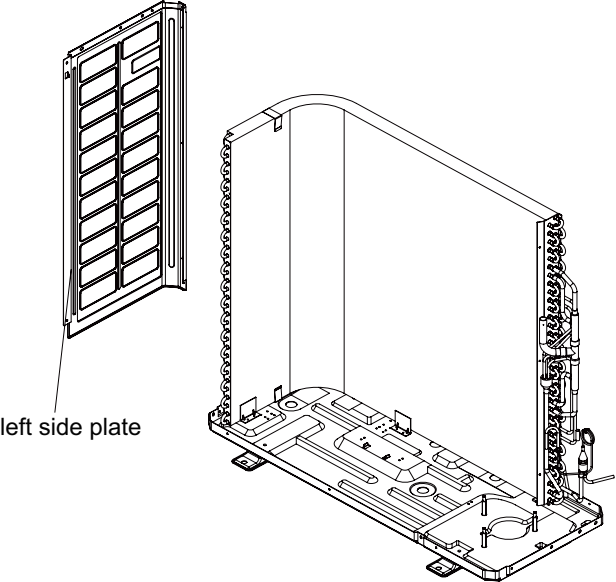
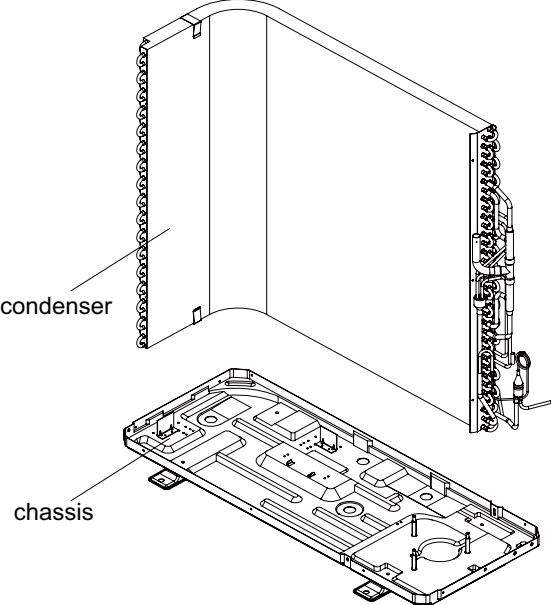
Steps	Procedure
1.Remove handle	
<p>Twist off the screws used for fixing the handle and valve cover, pull the handle and valve cover upward to remove it.</p>	
2.Remove top panel	
<p>Remove the screws connecting the top panel with the front panel and left&right side plate, and then remove the top panel.</p>	
3.Remove front side panel	
<p>Loosen the screws connecting the front side panel and chassis. Remove the front side panel.</p>	

Steps	Procedure	
4.Remove grille and panel	<div><p>Twist off the screws connecting the grille and panel, and then remove the grille.</p><p>Twist off the screws connecting the panel, chassis and motor support with screw-driver, and then remove the panel.</p></div> <div><p>grille</p><p>panel</p></div>	
5.Remove right side plate	<div><p>Twist off the screws connecting the right side plate and chassis, valve support and condenser, and then remove the right side plate.</p></div> <div><p>right side plate</p></div>	
6.Remove axial flow blade	<div><p>Twist off the nuts on blade with wrench and then remove the axial flow blade.</p></div> <div><p>axial flow blade</p></div>	

Steps	Procedure
7.Remove electric box	 <p>electric box</p> <p>Twist off the screws on electric box, cut off the tieline with scissors or pliers, pull out the wiring terminal, pull it upwards to remove the electric box.</p> <p>Twist off the screws on electric box (fireproofing) with screwdriver, and then remove the electric box (fireproofing).</p>  <p>electric box (fireproofing)</p>
8.Remove motor	 <p>motor</p> <p>Twist off the tapping screws fixing the motor, pull out the pin of leading wire for motor and then remove the motor.</p>

Steps	Procedure	
9.Remove motor support		
	<p>Twist off the tapping screws fixingthe motor support, pull it upwardsand then remove the motor support.</p>	
10.Remove isolation sheet		
	<p>Twist off the screws connecting isolation sheet and end plate of condenser and chassis, and then remove the isolation sheet.</p>	
11.Remove 4-way valve		
	<p>Unsolder the pipeline between compressor, condenser, gas and liquid valve, and then remove the 4-way valve. (note: release all refrigerant before unsoldering).</p>	

Steps	Procedure
12.Remove gas valve and liquid valve	
<p>Twist off the 2 bolts fixing the valve sub-assy. Unsolder the soldering joint between gas valve and air-return pipe and then remove the gas valve.(note: when unsoldering the soldering joint, wrap the gas valve with wet cloth completely to avoid the damage to valve, and release all refrigerant completely at first). Unsolder the soldering joint between liquid valve and connection pipe of liquid valve, and then remove the liquid valve.</p>	
13.Remove valve support	
<p>Twist off the screws connecting valve support and chassis, and then remove the valve support.</p>	
14.Remove compressor	
<p>Twist off the 3 foot nuts on compressor and then remove the compressor.</p>	

Steps	Procedure	
15.Remove left side plate	<p>Twist off the screws connecting the left side plate and chassis with screwdriver, and then remove the left side plate.</p>	
16.Remove chassis and condenser		
	<p>Pull it upwards to separate the chassis and condenser.</p>	

Appendix:

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: $T_f = T_c \times 1.8 + 32$

Set temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)
61	60.8	16	69/70	69.8	21	78/79	78.8	26
62/63	62.6	17	71/72	71.6	22	80/81	80.6	27
64/65	64.4	18	73/74	73.4	23	82/83	82.4	28
66/67	66.2	19	75/76	75.2	24	84/85	84.2	29
68	68	20	77	77	25	86	86	30

Ambient temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius(°C)
32/33	32	0	55/56	55.4	13	79/80	78.8	26
34/35	33.8	1	57/58	57.2	14	81	80.6	27
36	35.6	2	59/60	59	15	82/83	82.4	28
37/38	37.4	3	61/62	60.8	16	84/85	84.2	29
39/40	39.2	4	63	62.6	17	86/87	86	30
41/42	41	5	64/65	64.4	18	88/89	87.8	31
43/44	42.8	6	66/67	66.2	19	90	89.6	32
45	44.6	7	68/69	68	20	91/92	91.4	33
46/47	46.4	8	70/71	69.8	21	93/94	93.2	34
48/49	48.2	9	72	71.6	22	95/96	95	35
50/51	50	10	73/74	73.4	23	97/98	96.8	36
52/53	51.8	11	75/76	75.2	24	99	98.6	37
54	53.6	12	77/78	77	25			

Appendix 2: Configuration of Connection Pipe

1. Standard length of connection pipe

- 5m, 7.5m, 8m.

2. Min. length of connection pipe is 3m.

3. Max. length of connection pipe and max. high difference. (More details please refer to the specifications.)

4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe

- After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

- The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

- Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table.

The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.

- Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter

Additional refrigerant charging amount for R22, R407C, R410A and R134a			
Diameter of connection pipe		Outdoor unit throttle	
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)
Φ6	Φ9.5 or Φ12	15	20
Φ6 or Φ9.5	Φ16 or Φ19	15	50
Φ12	Φ19 or Φ22.2	30	120
Φ16	Φ25.4 or Φ31.8	60	120
Φ19	/	250	250
Φ22.2	/	350	350

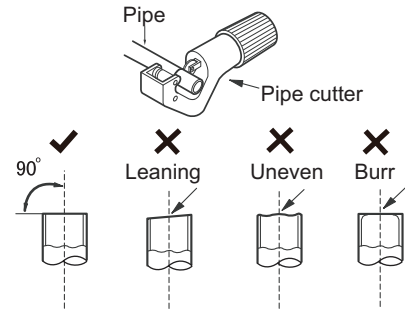
Appendix 3: Pipe Expanding Method

Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

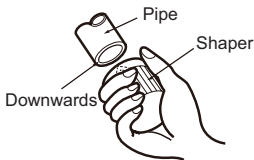
A: Cut the pip

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B: Remove the burrs

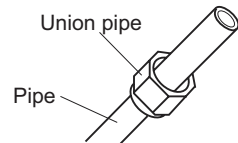
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C: Put on suitable insulating pipe

D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



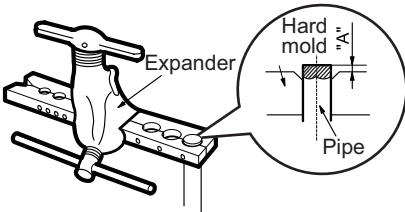
E: Expand the port

- Expand the port with expander.

Note:

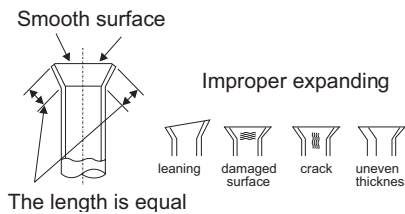
- "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mm)	
	Max	Min
Φ6 - 6.35 (1/4")	1.3	0.7
Φ9.52 (3/8")	1.6	1.0
Φ12 - 12.70 (1/2")	1.8	1.0
Φ16 - 15.88 (5/8")	2.4	2.2



F: Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.



Appendix 4: List of Resistance for Temperature Sensor

Resistance Table of Ambient Temperature Sensor for Indoor and Outdoor (15K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-19	138.1		20	18.75		59	3.848		98	1.071
-18	128.6		21	17.93		60	3.711		99	1.039
-17	121.6		22	17.14		61	3.579		100	1.009
-16	115		23	16.39		62	3.454		101	0.98
-15	108.7		24	15.68		63	3.333		102	0.952
-14	102.9		25	15		64	3.217		103	0.925
-13	97.4		26	14.36		65	3.105		104	0.898
-12	92.22		27	13.74		66	2.998		105	0.873
-11	87.35		28	13.16		67	2.896		106	0.848
-10	82.75		29	12.6		68	2.797		107	0.825
-9	78.43		30	12.07		69	2.702		108	0.802
-8	74.35		31	11.57		70	2.611		109	0.779
-7	70.5		32	11.09		71	2.523		110	0.758
-6	66.88		33	10.63		72	2.439		111	0.737
-5	63.46		34	10.2		73	2.358		112	0.717
-4	60.23		35	9.779		74	2.28		113	0.697
-3	57.18		36	9.382		75	2.206		114	0.678
-2	54.31		37	9.003		76	2.133		115	0.66
-1	51.59		38	8.642		77	2.064		116	0.642
0	49.02		39	8.297		78	1.997		117	0.625
1	46.6		40	7.967		79	1.933		118	0.608
2	44.31		41	7.653		80	1.871		119	0.592
3	42.14		42	7.352		81	1.811		120	0.577
4	40.09		43	7.065		82	1.754		121	0.561
5	38.15		44	6.791		83	1.699		122	0.547
6	36.32		45	6.529		84	1.645		123	0.532
7	34.58		46	6.278		85	1.594		124	0.519
8	32.94		47	6.038		86	1.544		125	0.505
9	31.38		48	5.809		87	1.497		126	0.492
10	29.9		49	5.589		88	1.451		127	0.48
11	28.51		50	5.379		89	1.408		128	0.467
12	27.18		51	5.197		90	1.363		129	0.456
13	25.92		52	4.986		91	1.322		130	0.444
14	24.73		53	4.802		92	1.282		131	0.433
15	23.6		54	4.625		93	1.244		132	0.422
16	22.53		55	4.456		94	1.207		133	0.412
17	21.51		56	4.294		95	1.171		134	0.401
18	20.54		57	4.139		96	1.136		135	0.391
19	19.63		58	3.99		97	1.103		136	0.382

Resistance Table of Tube Temperature Sensors for Indoor and Outdoor (20K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-19	181.4		20	25.01		59	5.13		98	1.427
-18	171.4		21	23.9		60	4.948		99	1.386
-17	162.1		22	22.85		61	4.773		100	1.346
-16	153.3		23	21.85		62	4.605		101	1.307
-15	145		24	20.9		63	4.443		102	1.269
-14	137.2		25	20		64	4.289		103	1.233
-13	129.9		26	19.14		65	4.14		104	1.198
-12	123		27	18.13		66	3.998		105	1.164
-11	116.5		28	17.55		67	3.861		106	1.131
-10	110.3		29	16.8		68	3.729		107	1.099
-9	104.6		30	16.1		69	3.603		108	1.069
-8	99.13		31	15.43		70	3.481		109	1.039
-7	94		32	14.79		71	3.364		110	1.01
-6	89.17		33	14.18		72	3.252		111	0.983
-5	84.61		34	13.59		73	3.144		112	0.956
-4	80.31		35	13.04		74	3.04		113	0.93
-3	76.24		36	12.51		75	2.94		114	0.904
-2	72.41		37	12		76	2.844		115	0.88
-1	68.79		38	11.52		77	2.752		116	0.856
0	65.37		39	11.06		78	2.663		117	0.833
1	62.13		40	10.62		79	2.577		118	0.811
2	59.08		41	10.2		80	2.495		119	0.77
3	56.19		42	9.803		81	2.415		120	0.769
4	53.46		43	9.42		82	2.339		121	0.746
5	50.87		44	9.054		83	2.265		122	0.729
6	48.42		45	8.705		84	2.194		123	0.71
7	46.11		46	8.37		85	2.125		124	0.692
8	43.92		47	8.051		86	2.059		125	0.674
9	41.84		48	7.745		87	1.996		126	0.658
10	39.87		49	7.453		88	1.934		127	0.64
11	38.01		50	7.173		89	1.875		128	0.623
12	36.24		51	6.905		90	1.818		129	0.607
13	34.57		52	6.648		91	1.736		130	0.592
14	32.98		53	6.403		92	1.71		131	0.577
15	31.47		54	6.167		93	1.658		132	0.563
16	30.04		55	5.942		94	1.609		133	0.549
17	28.68		56	5.726		95	1.561		134	0.535
18	27.39		57	5.519		96	1.515		135	0.521
19	26.17		58	5.32		97	1.47		136	0.509

Resistance Table of Discharge Temperature Sensor for Outdoor (50K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-29	853.5		10	98		49	18.34		88	4.75
-28	799.8		11	93.42		50	17.65		89	4.61
-27	750		12	89.07		51	16.99		90	4.47
-26	703.8		13	84.95		52	16.36		91	4.33
-25	660.8		14	81.05		53	15.75		92	4.20
-24	620.8		15	77.35		54	15.17		93	4.08
-23	580.6		16	73.83		55	14.62		94	3.96
-22	548.9		17	70.5		56	14.09		95	3.84
-21	516.6		18	67.34		57	13.58		96	3.73
-20	486.5		19	64.33		58	13.09		97	3.62
-19	458.3		20	61.48		59	12.62		98	3.51
-18	432		21	58.77		60	12.17		99	3.41
-17	407.4		22	56.19		61	11.74		100	3.32
-16	384.5		23	53.74		62	11.32		101	3.22
-15	362.9		24	51.41		63	10.93		102	3.13
-14	342.8		25	49.19		64	10.54		103	3.04
-13	323.9		26	47.08		65	10.18		104	2.96
-12	306.2		27	45.07		66	9.83		105	2.87
-11	289.6		28	43.16		67	9.49		106	2.79
-10	274		29	41.34		68	9.17		107	2.72
-9	259.3		30	39.61		69	8.85		108	2.64
-8	245.6		31	37.96		70	8.56		109	2.57
-7	232.6		32	36.38		71	8.27		110	2.50
-6	220.5		33	34.88		72	7.99		111	2.43
-5	209		34	33.45		73	7.73		112	2.37
-4	198.3		35	32.09		74	7.47		113	2.30
-3	199.1		36	30.79		75	7.22		114	2.24
-2	178.5		37	29.54		76	7.00		115	2.18
-1	169.5		38	28.36		77	6.76		116	2.12
0	161		39	27.23		78	6.54		117	2.07
1	153		40	26.15		79	6.33		118	2.02
2	145.4		41	25.11		80	6.13		119	1.96
3	138.3		42	24.13		81	5.93		120	1.91
4	131.5		43	23.19		82	5.75		121	1.86
5	125.1		44	22.29		83	5.57		122	1.82
6	119.1		45	21.43		84	5.39		123	1.77
7	113.4		46	20.6		85	5.22		124	1.73
8	108		47	19.81		86	5.06		125	1.68
9	102.8		48	19.06		87	4.90		126	1.64

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GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

Tel: (+86-756) 8522218 Fax: (+86-756) 8669426

Email: gree@gree.com.cn [Http://www.gree.com](http://www.gree.com)

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612, 26/F., Miramar Tower 132 Nathan Road, TST, Kowloon, HK

Tel: (852) 31658898 Fax: (852) 31651029

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