

SERVICE MANUAL

TITAN SERIES

ASH-28AT



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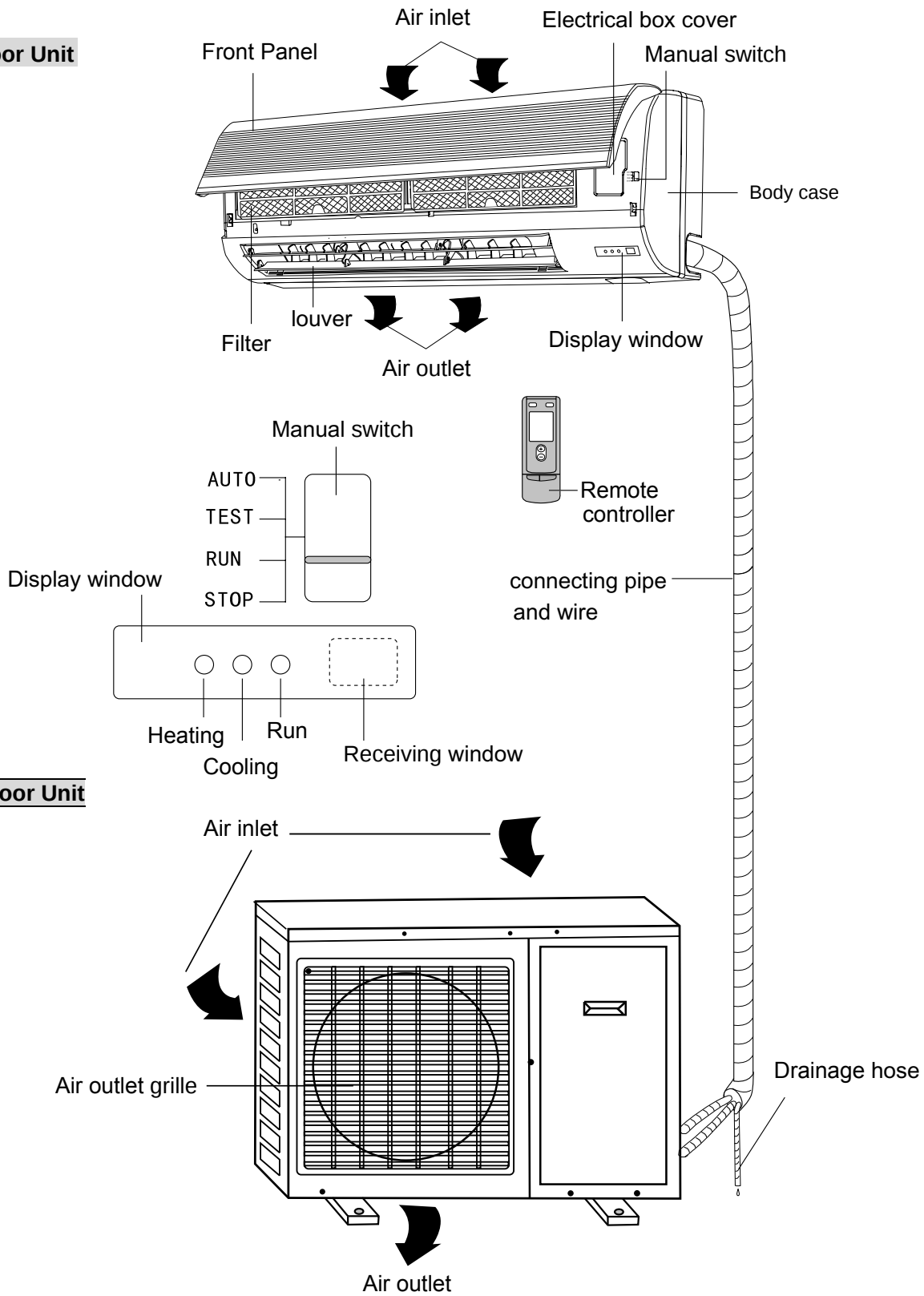
Specifications and Technical Parameters

Model		ASH-28AT	
Function		COOLING	HEATING
Rated Voltage		230V~	
Rated Frequency		50HZ	
Total Capacity (W/Btu/h)		8000	8800
Power Input (W)		2800	2800
Rated Input (W)		4000	3600
Rated Current (A)		17.4	15.7
Air Flow Volume (m ³ /h) (H/M/L)		1200	
Dehumidifying Volume (l/h)		3	
SEER / C.O.P (Btu/W)		2.85/3.15	
Energy Class		4	
Indoor unit	Model of Indoor Unit	ASH-28AT	
	Fan Motor Speed (r/min) (H/M/L)	1410/1310/1260	
	Output of Fan Motor (w)	35	
	Input of Heater (w)	-	
	Fan Motor Capacitor (uF)	3	
	Fan Motor RLA(A)	0.19	
	Fan Type-Piece	Cross flow fan – 1	
	Diameter-Length (mm)	φ106 X 890	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	Φ7	
	Row-Fin Gap(mm)	2-1.4	
	Coil length (l) x height (H) x coil width (L)	901.6X25.4X381	
	Swing Motor Model	MP24GA	
	Output of Swing Motor (W)	2	
	Fuse (A)	PCB 3.15A Transformer 0.4/0.1A	
	Sound Pressure Level dB (A) (H/M/L)	49/48/47	
	Sound Power Level dB (A) (H/M/L)	59/57/56	
	Dimension (W/H/D) (mm)	1178 X326X227	
	Dimension of Package (L/W/H) (mm)	1265X417X328	
	Net Weight /Gross Weight (kg)	17.5/24	

Outdoor unit	Model of Outdoor Unit		ASH-28AT
	Compressor		DAIKIN
	Compressor Model		JT90G-P8V1N
	Compressor Type		Hermetic motor compressor
	L.R.A. (A)		75.5
	Compressor RLA(A)		13.2
	Compressor Power Input(W)		2950
	Overload Protector		Internal Inherent Protector
	Throttling Method		Capillary
	Starting Method		Capacitor
	Working Temp Range (°C)		-5≤T≤43
	Condenser		Aluminum fin-copper tube
	Pipe Diameter (mm)		Φ9.52
	Rows-Fin Gap(mm)		2-1.4
	Coil length (l) x height (H) x coil width (L)		1017.5X813X44
	Fan Motor Speed (rpm)		920
	Output of Fan Motor (W)		92
	Fan Motor RLA(A)		0.9
	Fan Motor Capacitor (uF)		3.5
	Air Flow Volume of Outdoor		/
	Fan Type-Piece		Axial fan –1
	Fan Diameter (mm)		Φ482
	Defrosting Method		Auto defrost
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the		2.5
	Permissible Excessive		0.6
	Sound Pressure Level dB (A) (H/ML)		60
	Sound Power Level dB (A) (H/ML)		70
	Dimension (W/H/D) (mm)		950X412X840
	Dimension of Package		1100X450X880
	Net Weight /Gross Weight (kg)		90/105
	Refrigerant Charge (kg)		R410A/2.6
Connecti on Pipe	Length (m)		5
	Gas additional charge(g/m)		30
	Outer Diameter	Liquid Pipe (mm)	Φ9.52(3/8")
		Gas Pipe (mm)	Φ16(5/8")
	Max Distance	Height (m)	10
		Length (m)	15

3 Names of spare parts

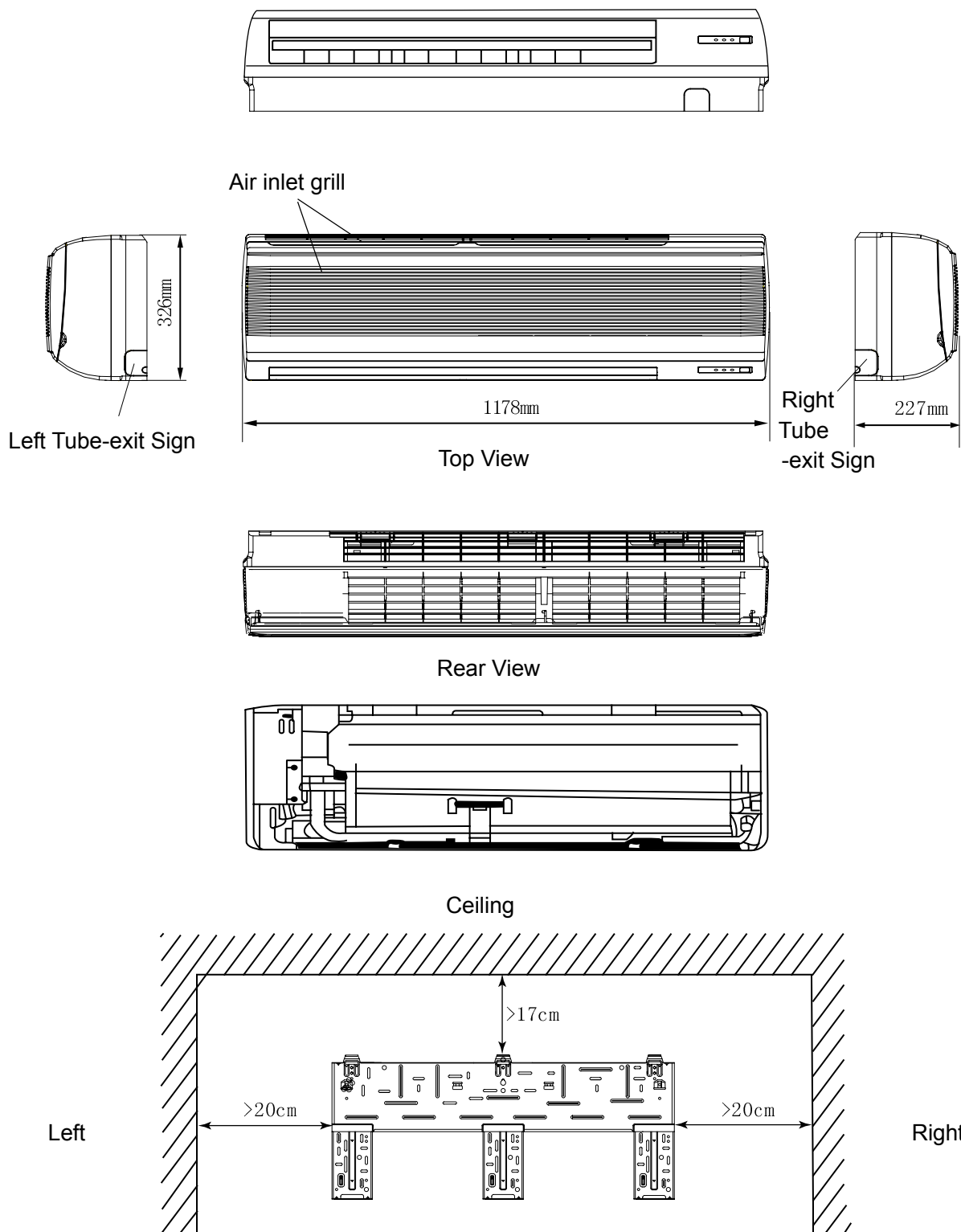
Indoor Unit



Outdoor Unit

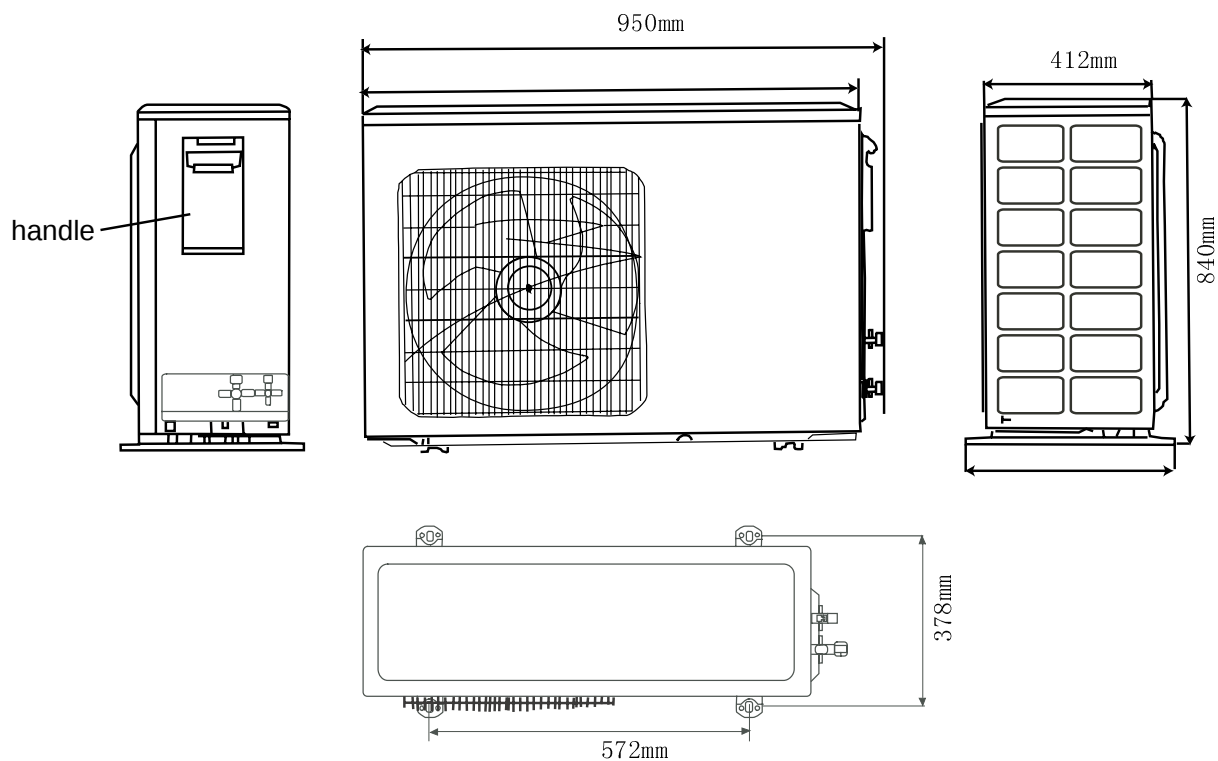
4 Overall and Installing Dimension

4.1 Overall and Installing Dimension of Indoor Unit

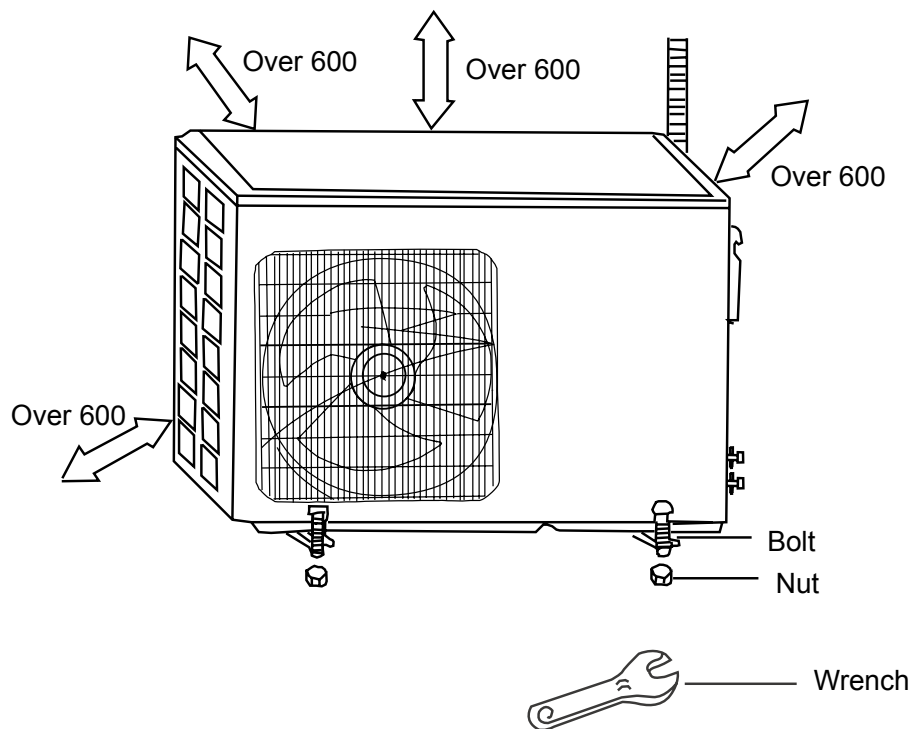


4.2 Overall and Installing Dimension of Outdoor Unit

ASH-28AT

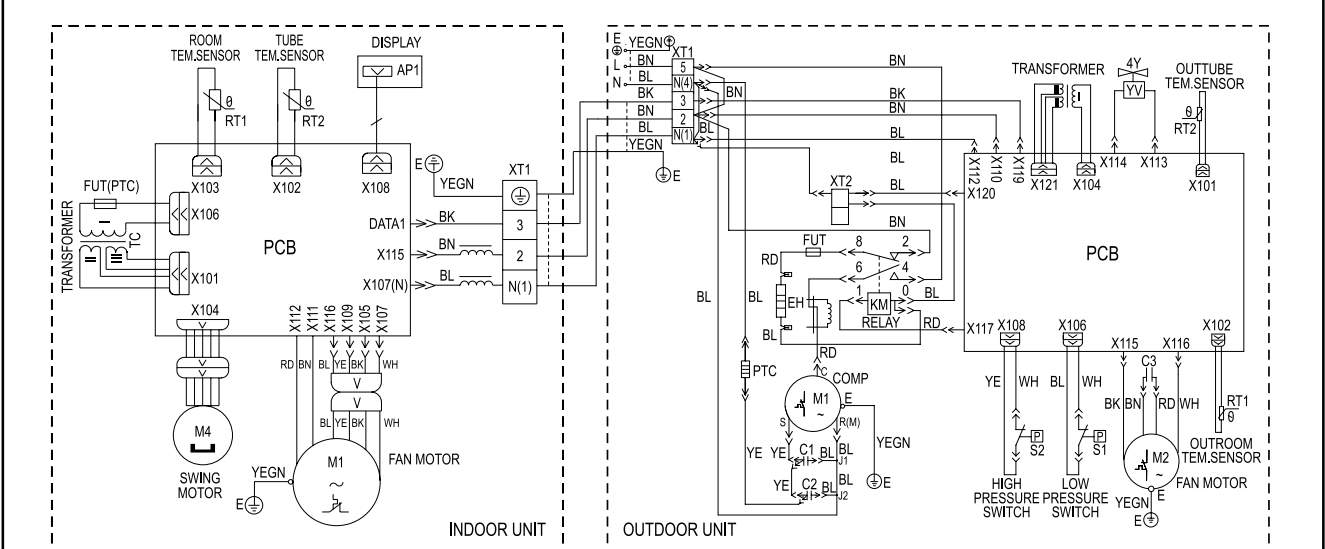


UNIT:mm



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ASH-28AT



6.1 Remote Controller Function Manual

This function manual is for: ASH-28AT

6.1.1 Temperature Parameters

- ◆ Indoor preset temperature (T_{preset})
- ◆ Indoor ambient temperature ($T_{\text{amb.}}$)

6.1.2 Basic Functions

Under any mode, the compressor, once started, will not be stopped within 6 minutes. Once Stopped, the compressor should in no way be restarted unless 3-minute lag.

6.1.2.1 Cooling Mode

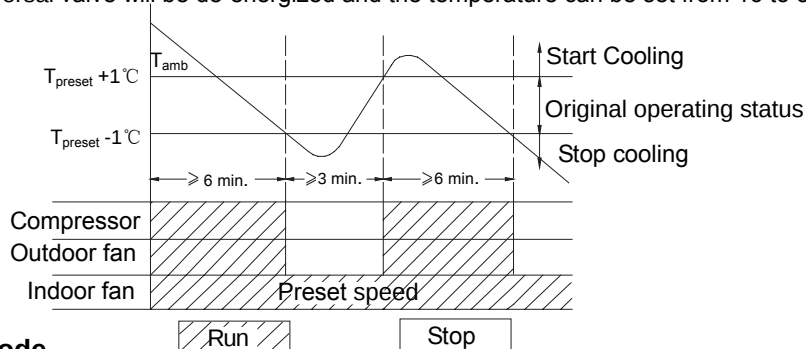
6.1.2.1.1 Cooling Conditions and Process

When $T_{\text{amb.}} \geq T_{\text{preset}} + 1^\circ\text{C}$, the unit will run under cooling mode, in which case the compressor and outdoor fan will be started, the indoor fan will run at preset speed.

When $T_{\text{amb.}} \leq T_{\text{preset}} - 1^\circ\text{C}$, the unit will be stopped under cooling mode, in which case the compressor and outdoor fan will be stopped and the indoor fan will run at preset speed.

When $T_{\text{preset}} - 1^\circ\text{C} < T_{\text{amb.}} < T_{\text{preset}} + 1^\circ\text{C}$, the unit will maintain its original operating status.

- Under this mode, the reversal valve will be de-energized and the temperature can be set from 16 to 30°C .



6.1.2.2 Dehumidifying Mode

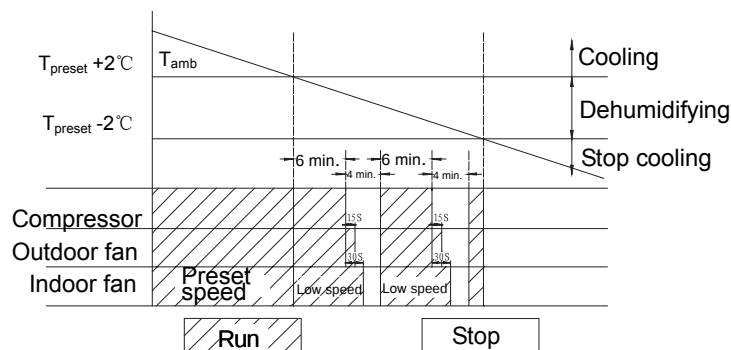
6.1.2.2.1 Dehumidifying Cooling Conditions and Process

When $T_{\text{amb.}} > T_{\text{preset}} + 2^\circ\text{C}$, the unit will run under dehumidify cooling mode, in which case the compressor and outdoor fan will be started and the indoor fan will run at preset speed.

When $T_{\text{preset}} - 2^\circ\text{C} \leq T_{\text{amb.}} \leq T_{\text{preset}} + 2^\circ\text{C}$, the unit will run under dehumidifying mode, in which case the indoor fan will run at low speed. After the compressor and outdoor fan has run 6 minutes, the compressor will be stopped, the outdoor fan will be stopped after 15-second lag and the indoor fan will be stopped after 30 seconds. After 3.5 minutes, the compressor and outdoor fan will be started, and the indoor fan will run at low speed. The dehumidifying process is so repeated in cycle.

When $T_{\text{amb.}} < T_{\text{preset}} - 2^\circ\text{C}$, the compressor, outdoor fan and indoor fan will be stopped.

- Under this mode, the reversal valve will be de-energized and the temperature can be set from 16 to 30°C .



6.1.2.3 Heating Mode

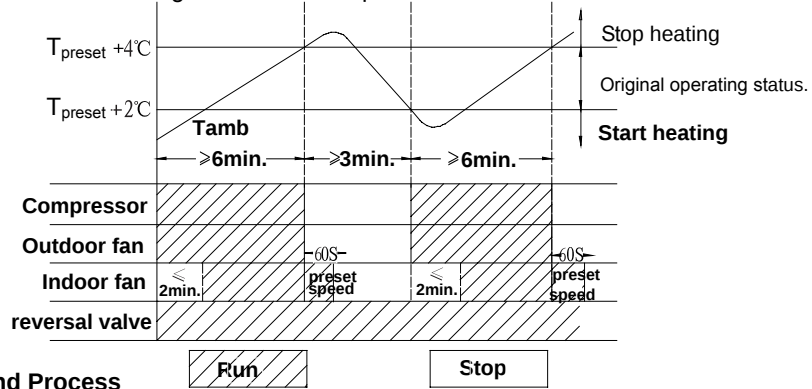
6.1.2.3.1 Heating Conditions and Process

When $T_{amb} \leq T_{preset} + 2^{\circ}\text{C}$, the unit will run under heating mode, in which case the reversal valve, compressor and outdoor fan will be started simultaneously, while the indoor fan will run after 2 minutes (max) delay.

If $T_{amb} \geq T_{preset} + 4^{\circ}\text{C}$, the compressor and outdoor fan will be stopped, the reversal valve will remain energized and the indoor fan will run at preset speed for 60s and then will stop.

When $T_{preset} + 2^{\circ}\text{C} < T_{amb} < T_{preset} + 4^{\circ}\text{C}$, the unit will maintain its original operating status.

- Under this mode, the reversal valve will be energized and the temperature can be set from 16 to 30°C.



6.1.2.3.2 Defrosting Conditions and Process

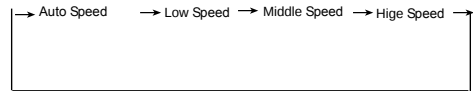
When the condenser is detected to have frost, the system will enter into defrosting status, in which case the outdoor fan, 4-way valve and indoor fan will be stopped and the heating indicator will blink. When it is detected that the frost in condenser is completely eliminated, the outdoor fan and 4-way valve will be started, the indoor fan will be started at most

6.1.2.3.3 The preventive liquid splash protection for the 4-way valve

If the unit is switched off under heating mode or switched from heating mode to another mode, the 4-way valve will be de-energized 2 minutes after the compressor is stopped.

6.1.2.4 Fan Mode

Under FAN mode, the indoor fan runs at preset speed.



- The temperature can be set within a range from 16 to 30°C. The initial value is 25°C.

6.1.2.5 Auto Mode

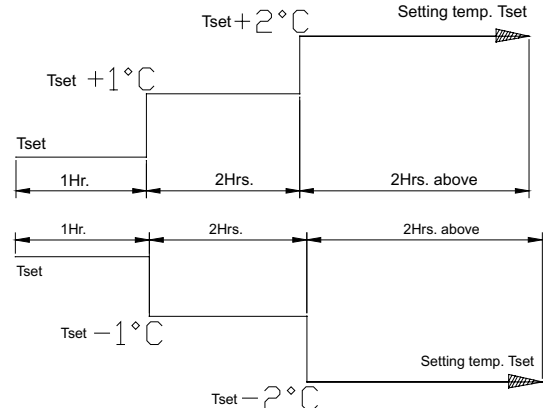
Under this mode, the system will automatically select its run mode (cooling, fan, heating) with the change of ambient temperature. For protection function, same as under cooling or heating mode.

- Under Auto mode, if the unit is switched from heating mode to another mode, the reversal valve will be de-energized after 2 mins delay. (cooling only unit has not heating mode)

6.1.3 Other Control

6.1.3.1 Sleep Function

Setting SLEEP function under COOL or DEHUMIDIFY mode, the preset temperature will automatically rise by 1°C after 1 hour and rise by another 1°C after 2 hours. Preset temperature will rise by 2°C in total within 2 hours. After that, the unit will run at this preset temperature.



Setting SLEEP function under HEAT mode, the preset temperature will automatically decrease by 1°C after 1 hour and decrease by another 1°C after 2 hours. Preset temperature will decrease by 2°C in total within 2 hours. After that, the unit will run at this preset temperature.

No sleep function under FAN or AUTO mode.

6.1.3.2 AUTO ON

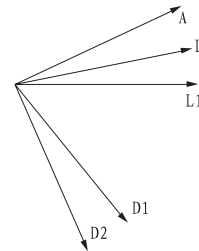
AUTO ON function can be set when the unit is at off mode. Upon the time as set , the controller will run under preset mode. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6.1.3.3 AUTO OFF

AUTO OFF function can be set when the unit is at on mode. Upon the time as set , the system will be stopped. The interval of time setting is 0.5h and can be set within 0.5-24h in cycle.

6.1.3.4 Swing Motor Control

- 1.Once energization, the swing motor will rotate the guide louver anticlockwise to position A to close the air outlet.
- 2.After the unit is started, the guide louver will rotate to D2 air outlet under heating mode and to D1 air outlet and then return to L1 position. If under swing status, the louver will swing between L1 and D1 under cooling mode and between L and D2 under heating.
- 3.Under heating mode, if swing is on, the louver must be stopped at L position when the unit is at preventive cold air; blowing the residual heat and defrosting status, the louver will swing under normal heating status. If swing is off, the louver will be stopped at preset position.
- 4.Upon stop of the unit, it will rotate anticlockwise to position A to close the air outlet.



6.1.3.5 Buzzer

When the controller is energized, pressed, or receives a signal from remote controller, the buzzer will give out a beep.

6.1.3.6 Automatic Control of Fan Speed

Under this mode, the indoor fan will automatically select high,medium or low speed with the change of ambient temperature.

6.1.3.7 Indicator

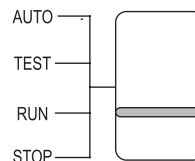
RUN Indicator (Red): when the controller is energized, it will give out a blink. Running status indication: bright upon start of the unit; black upon stop of the unit and blink during trouble.

COOLING,Dehumidifying Indicator (Green): Bright under cooling or dehumidifying mode; auto cooling or auto dehumidifying mode, otherwise, it is black.

HEATING Indicator (Yellow): Bright under heating or auto heating mode, blink during defrosting, black under other modes. The RUN Indicator is bright under FAN mode,

6.1.3.8 Swing Switch(AUTO, TEST, RUN, STOP)

- a. It will run under auto mode when the swing switch is put to AUTO position. If any remote control signal received, the main unit will run according to the remote control signal.
- b. It will run under COOLING mode when the swing switch is put to TEST position, and the indoor fan will run at high speed . If any remote control signal received,it will run according to the remote control signal. At this time, the low pressure switch is shielded, the tem. sensor's malfunction will be checked,but don't measure any temperatures.
- c. When putting the swing switch to RUN position, the main unit will run as instructed by remote control signal.
- d. When putting the swing switch to STOP position, the complete unit will be stopped and will not accept remote control signal



6.1.3.9 Memory function

Memory contents: Mode, Swing, Set temp, Set fan speed.

After powered off, and re-power on, the unit will start to run with the memory function automatically.

6.1.4 Protection

6.1.4.1 Antifreeze Protection

If it is detected that the system is under antifreeze protection under cooling mode, the compressor and outdoor fan will be stopped, the indoor fan and the swing motor will maintain its original operating status.. When antifreeze protection is released and the compressor has stopped for 3 minutes, the controller will run at the preset mode. It don't shielded the key signal during antifreeze protection.

6.1.4.2 Anti High-temp Protection

Undre heating mode, if it is detected that the pipe temp. of evaporator is too high, the outdoor fan will be stopped; when the pipe temp. resumes normal, the outdoor fan will resume running.

6.1.4.3 System high-pressure protection

If high-pressure protection is detected ,all loads will be turned off,all key-press and remote control signals will be shielded, and the Run Indicator will blink. When compressor is detected free of high-pressure protection, the shield function will be released, the Run Indicator will keep blinking. To restore the operation, it is required to press ON/OFF key to switch off the unit and indicator before pressing ON/OFF key again.

6.1.4.4 System low-pressure protection

1. After compressor has started for several minutes and started to check the low-pressure switch signal, if it has detected that the low-pressure switch opened, that the whole unit will stop, the running indicator will blink,after 3mins and low pressure resumed, the unit will back to run; if there are twice low-pressure protection continuously act, that the running indicator blink and will not resume automatically, in order to remind the user there is air leakage; Only if the low pressure resumed, then press ON/OFF button to turn off the unit, then repress ON/OFF button to resume to run;(if cooling only unit has no low-pressure switch, connect the circuit directly.)
2. When turn to the manual switch to TEST position, it will carry out the test running, and shield the low-pressure protection;
3. When compressor stops, if it detected for 30s continuously that the low-pressure switch is opened, the whole unit will stop,the running indicator will blink,and it can not resume automatically, it need to press ON/OFF button to turn off the unit, then repress ON/OFF button to resume to run.

6.1.4.5 Overcurrent protection

When the compressor is turned on, if it has detected that the current exceed the stated value, the unit will stop as the indoor ambient temp. has arrived at the setting temp., after the compressor has stopped for 3mins, it will resume to run in the original running state, if the protections is more than 6 times (If compressor has continuously work more than 6mins, the protection times will reset), the running indicator will blink, it can not resume to run automatically, it is need to press ON/OFF button to turn off the unit, then repress ON/OF button to resume to work.

6.1.4.6 Communication malfunction

When it is detected that the indoor and outdoor units have communication malfunction , the running indicator will blink, the unit will be stopped as the indoor ambient temperature has arrived the setting temperature .

6.1.4.7 Indicator display

State	Indicator display	Remark:
High-pressure protection	Outdoor malfunction indicator 1 turns on, indoor run indicator blinks	Indoor Run indicator turn off 3s and blinks once
Low-pressure protection	Outdoor malfunction indicator 3 turns on, indoor run indicator blinks	Indoor Run indicator turn off 3s and blinks 3 times
Over current protection	Outdoor malfunction indicator 2 turns on, indoor run indicator blinks	Indoor indicator turn off 3s and blinks five times
Communication malfunction	Outdoor malfunction indicators 1,2,3 turn on, indoor run indicator blinks	Indoor indicator turn off 3s and blinks six times
Normal communication	Outdoor indicator 4,5 blink in turn	

When there are several malfunctions existed at the same time, it will display the high level malfunction in priority by a sequence as: communication malfunction→air exhaust protection→over current protection→high pressure protection→low pressure protection.

7 Disassembly and Assembly Procedures

7.1 Disassembly Procedures of Indoor Unit

Operating Procedures / Photos

7.1.1 Disassemble Filter

Push the filter inward and then pull it upward to remove it. Twist off screws to remove the cover plate of electric box.

(refer to Figure 7-1)

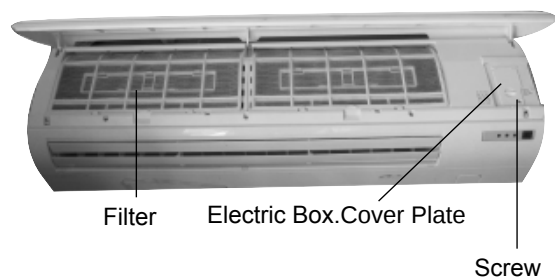


Figure 7-1

7.1.2 Disassemble Front Panel

Pull open the front panel. Push the front panel along the front case groove fixing the front panel to remove it.

(refer to Figure 7-2)

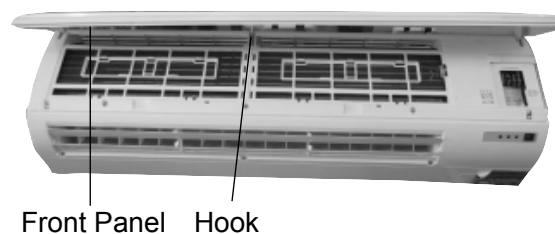


Figure 7-2

7.1.3 Disassemble Guide Louver

Manually bend the guide louver to loose the clasp at the guide louver. Remove the guide louver.

(refer to Figure 7-3)

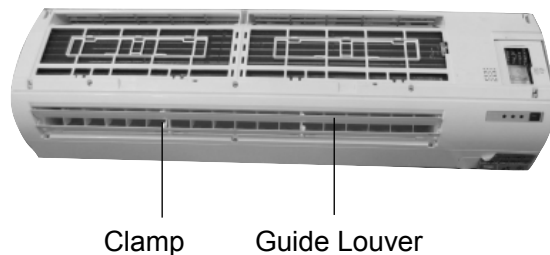


Figure 7-3

7.1.4 ||||| Disassemble Front Case

Unscrew the three screw cover at the front case, unscrew the six screws, and pull backward the front case to remove it.

(refer to Figure 7-4)

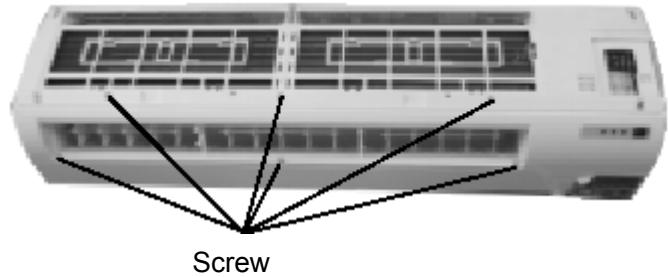


Figure 7-4

7.1.5 ||||| Disassemble Electric Box Cover

Unscrew the screw fixing the light plate to remove the light plate. Hold the electric box cover to press it inward so that the clasps at both sides are loose. Lift the electric box cover to remove it.

(refer to Figure 7-5)

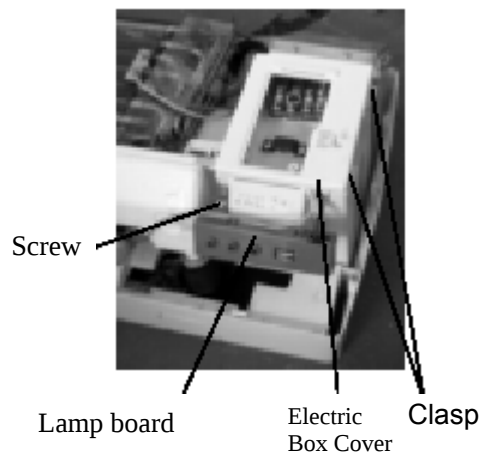


Figure 7-5

7.1.6 ||||| Disassemble Electric Box

Remove the grounding wire of evaporator. Take apart the tube sensor. Unplug the socket connectors of indoor motor and swing motor at the electric box. Use screwdriver to screw off the fixing screw of electric box. Take out the electric box.

(refer to Figure 7-6)

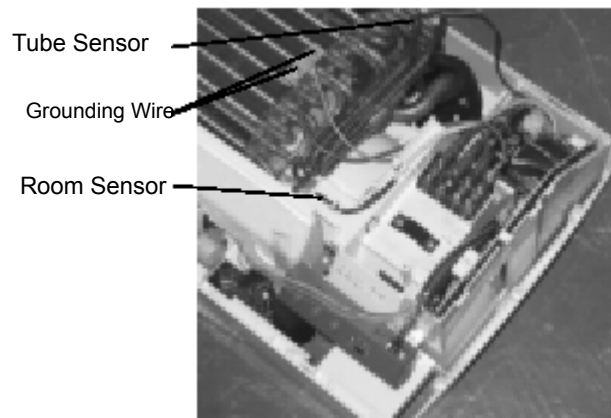


Figure 7-6

7.1.7 ||||| Disassemble Water Tray

Push open the clasp fixing the water tray, and pull the water tray upward to remove the water tray.

(refer to Figure 7-7)

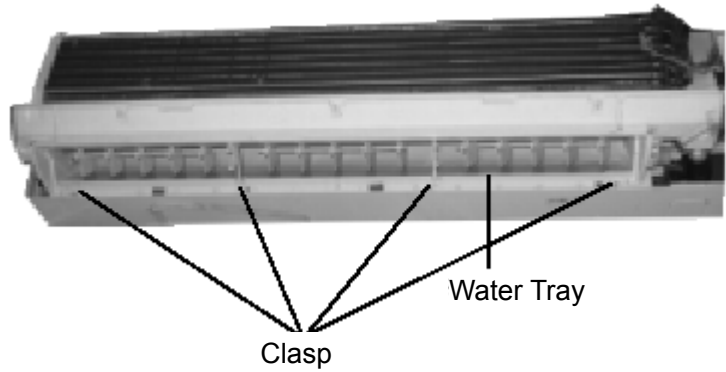


Figure 7-7

7.1.8 ||||| Disassemble Evaporator

Use screwdriver to screw off the two screws at the rear pipe clamp to remove the rear pipe clamp. Screw off the screws at the left and right sides of the evaporator, and take the evaporator out, so that the side plate clasp of the evaporator is released from the groove.

(refer to Figure7-8, 7-9 and 7-10)

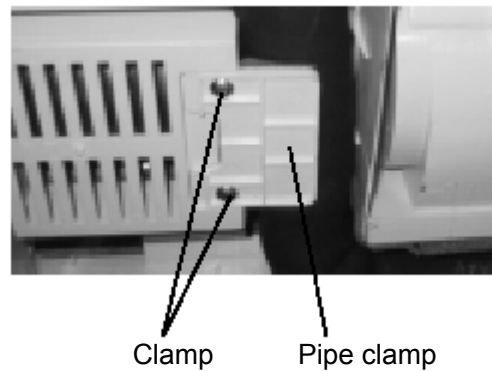


Figure 7-8

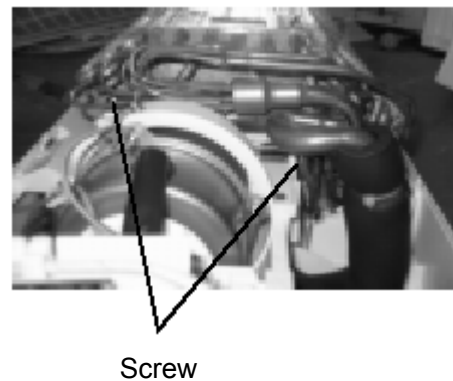


Figure7-9

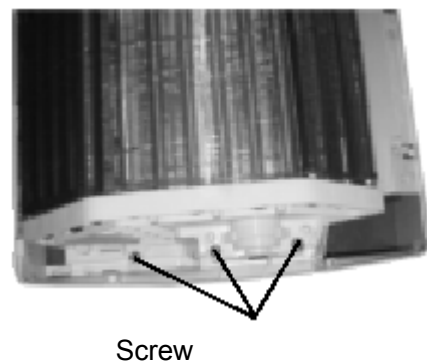


Figure 7-10

7. 1. 9 ||||| **Disassemble Motor**

Use a screwdriver to unscrew the two screws fixing the motor clamp and then remove the motor clamp. Unscrew the 3 holding screws on the bearing cover and remove the motor.
(refer to Figure 7-11,7-12)

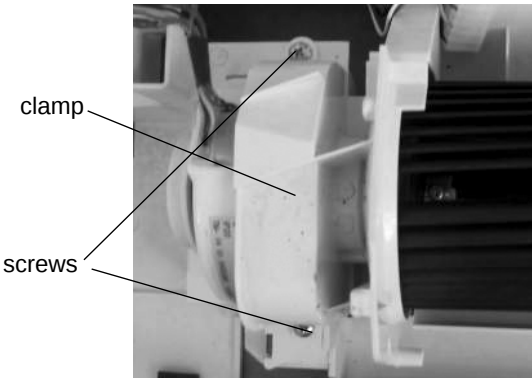


Figure 7-11

7. 1. 10 ||||| **Disassemble Cross Flow Fan**

Take out the bearing holder at the left, and remove the cross flow fan.
(refer to Figure 7-13)

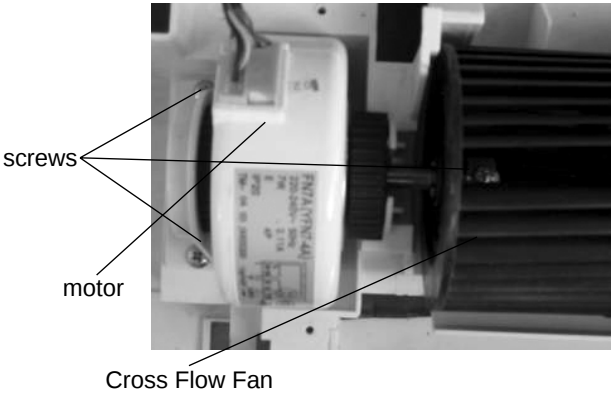


Figure 7-12

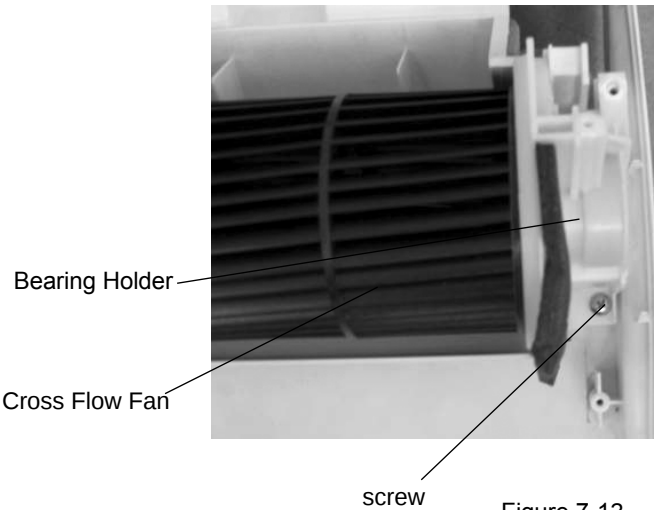


Figure 7-13

7. 2 Disassembly Procedures of Outdoor Unit

Operating Procedures / Photos

7. 2. 1 ||||| Disassemble Front Side Plate

Screw off the four screws around the front side plate to remove the front side plate.
(refer to Figure 7-14)

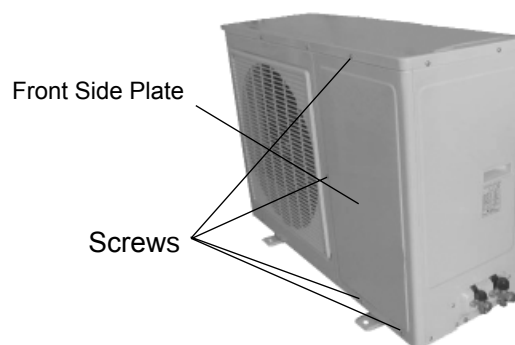


Figure 7-14

7. 2. 2 ||||| Disassemble Top Cover

Screw off the tapping screws around the top cover, and then pull the top cover upward to remove it.
(refer to Figure 7-15)

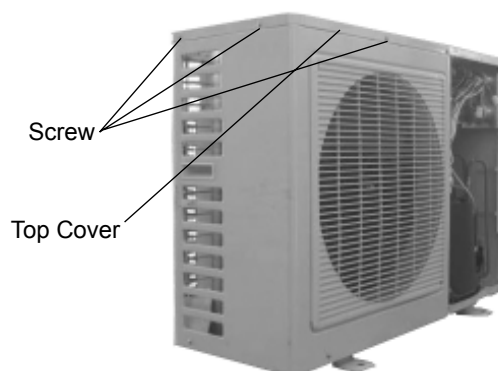


Figure 7-15

7. 2. 3 ||||| Remove the rear grill

Screw off the four screws around the rear grill to remove the rear grill.
(refer to Figure 7-16)

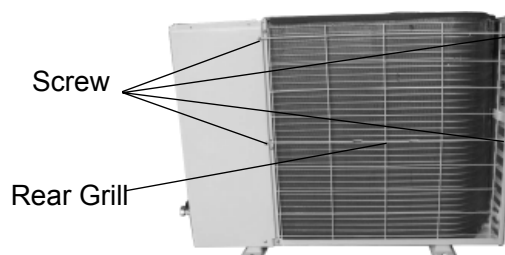


Figure 7-16

7. 2. 4 ||||| Disassemble Cabinet

Use screwdriver to screw off the screws around the cabinet to remove the cabinet. (refer to Figure 7-17)

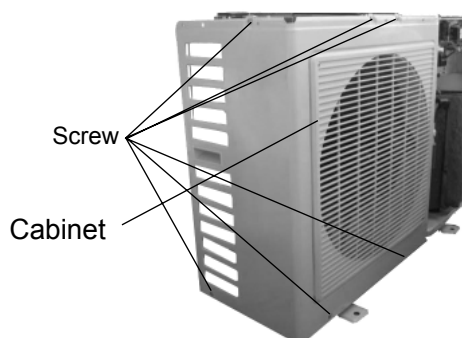


Figure 7-17

7. 2. 5 ||||| Disassemble Electric Box

Use screwdriver to screw off the two screws fixing the electric box, and pull the electric box to remove it.

(refer to Figure 8-18)

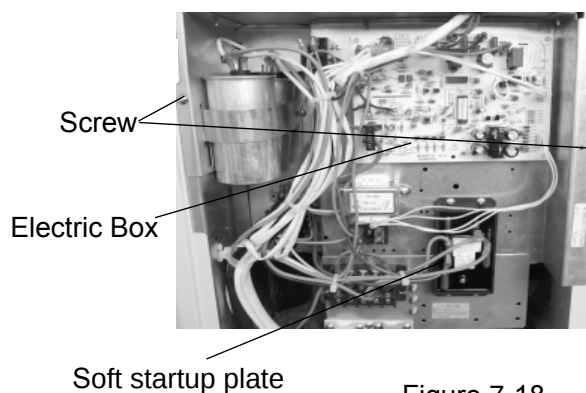


Figure 7-18

7. 2. 6 ||||| Disassemble Right Side Plate

Use screwdriver to screw off the 7 screws at the right side plate, condenser side plate and valve support, and then pull the right side plate sub-assy upward to remove it.

(refer to Figure 7-19)

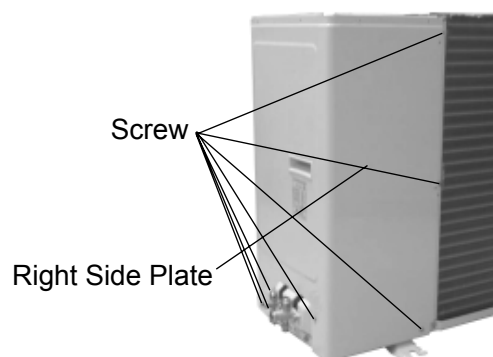


Figure 7-19

7. 2. 7 ||||| Disassemble Axial Flow Fan

Use spanner to remove the nut at the fan to remove the axial flow fan.

(refer to Figure 7-20)

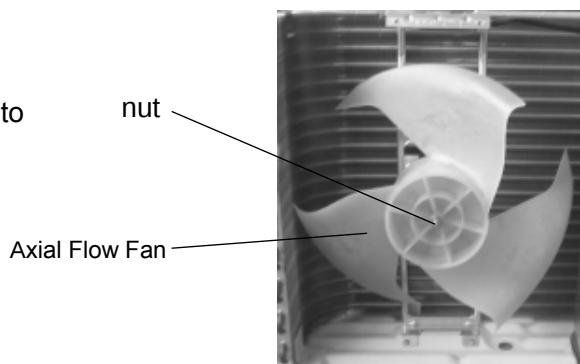


Figure 7-20

7. 2. 8 ||||| Disassemble Outdoor Motor

Screw off the four tapping screws fixing the motor, pull out the motor lead-out cable plug, and remove the motor. Screw off the two tapping screws fixing the motor support, and pull the motor support upward to remove it.

(refer to Figure 7-21)

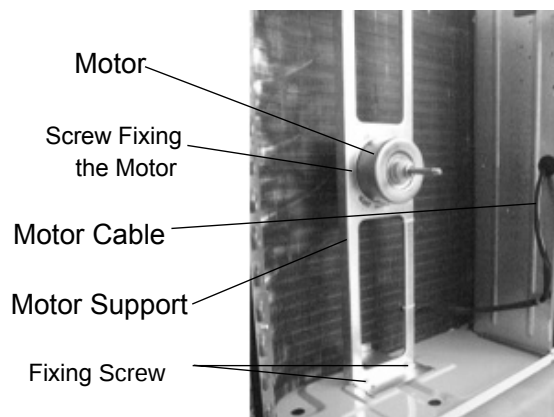


Figure 7-21

7. 2. 9 ||||| Disassemble 4-Way Valve (cooling only unit has not 4-way valve)

Screw off the holding nut of the 4-way valve coil and remove the coil. Use wet cotton cloth to wrap the 4-way valve, unsold the four soldering points connecting the 4-way valve, and remove the 4-way valve. Be quick during the unsoldering process, pay attention to keep the wrapping cloth wet and do not allow the soldering flame to burn the compressor lead-out cable.

(refer to Figure 7-22)

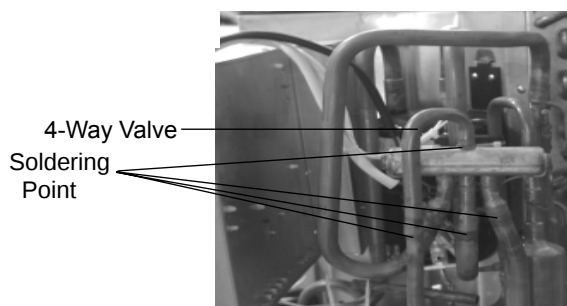


Figure 7-22

7. 2. 10 ||||| Disassemble Capillary

Unsold the soldering points at the capillary, the valve and the condenser to remove the capillary. Pay attention not to allow the soldering slag to block the capillary.

(refer to Figure 7-23)

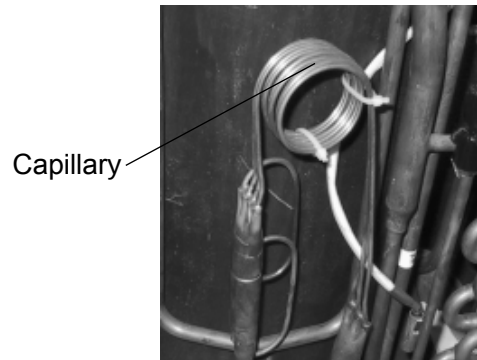


Figure 7-23

7. 2. 11 ||||| Disassemble Valves

Screw out the 2 bolts that fixing big valve, unsolder the soldered dot connecting big valve with gas return pipe to take off big valve.

(Note: When soldering the soldered dot, wrap big valve completely by moist cloth to prevent valve from damaging by high temperature.)

Screw out the 2 bolts that fixing small valve, unsolder the soldered dot that connected small valve and Y-shape pipe to take off small valve.

(refer to Figure 7-24)

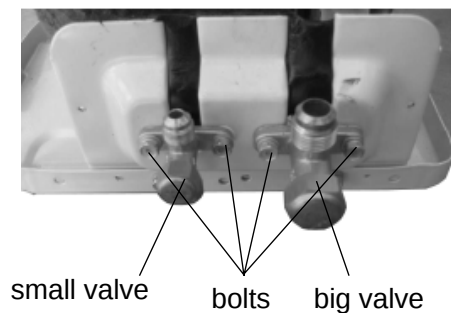


Figure 7-24

7. 2. 12 ||||| Disassemble Compressor

Unsold the pipeline that connected with compressor first, then take off the 3 nuts on feet of compressor to take off compressor.

(refer to Figure 7-25)

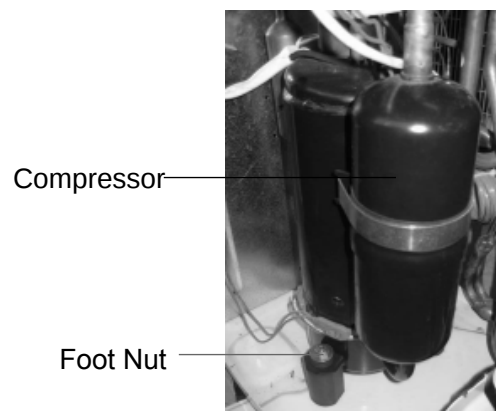
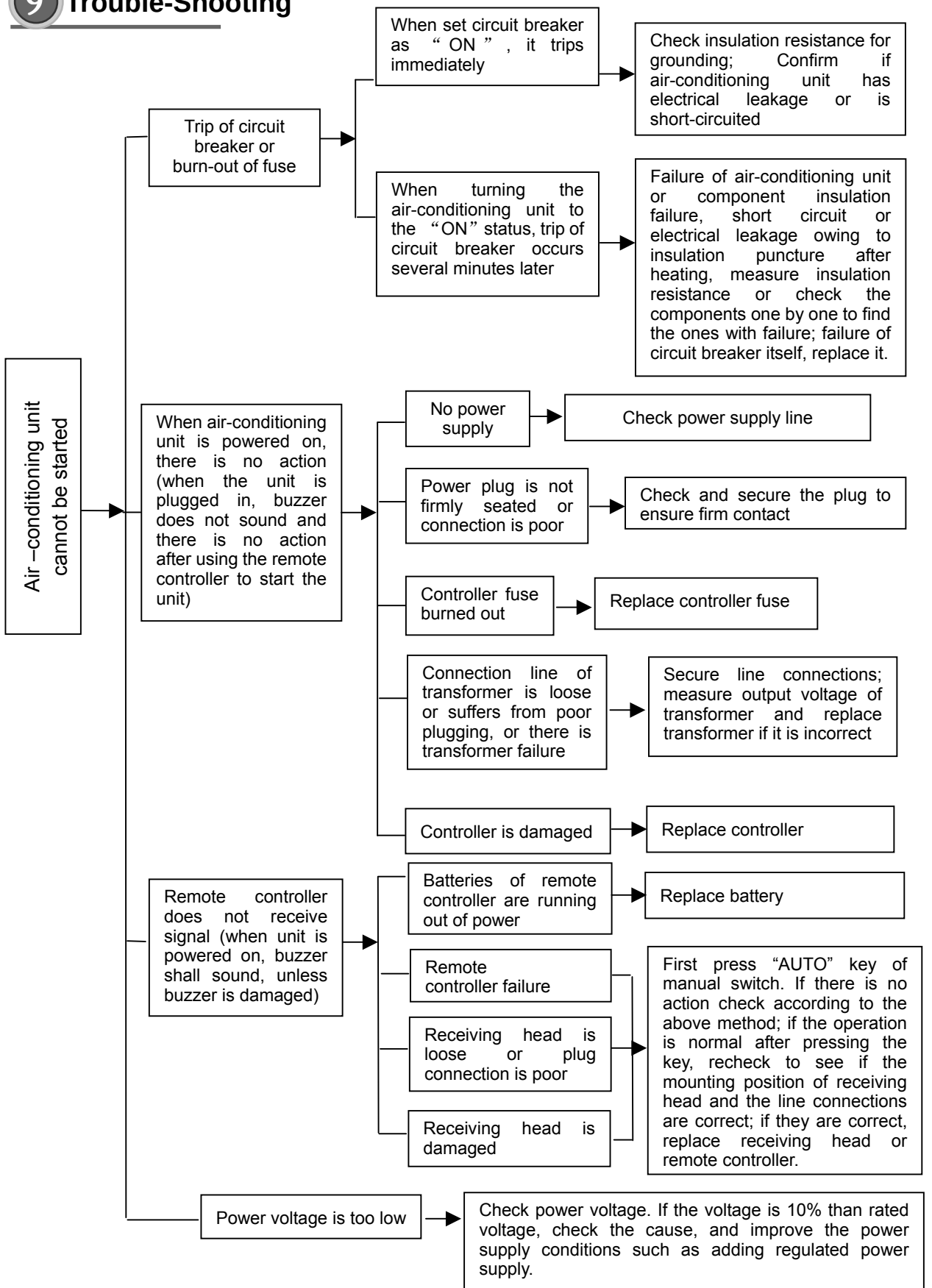
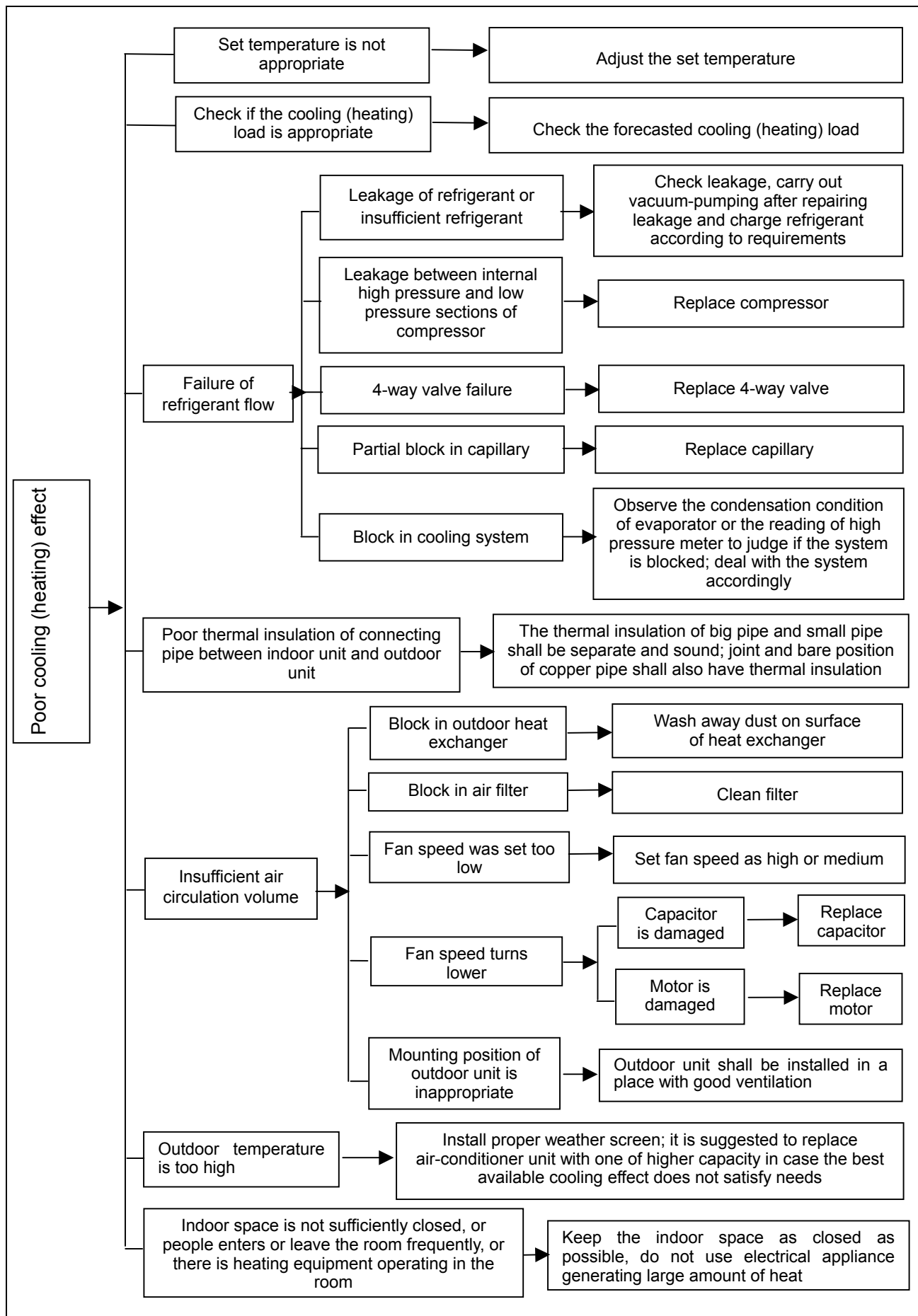


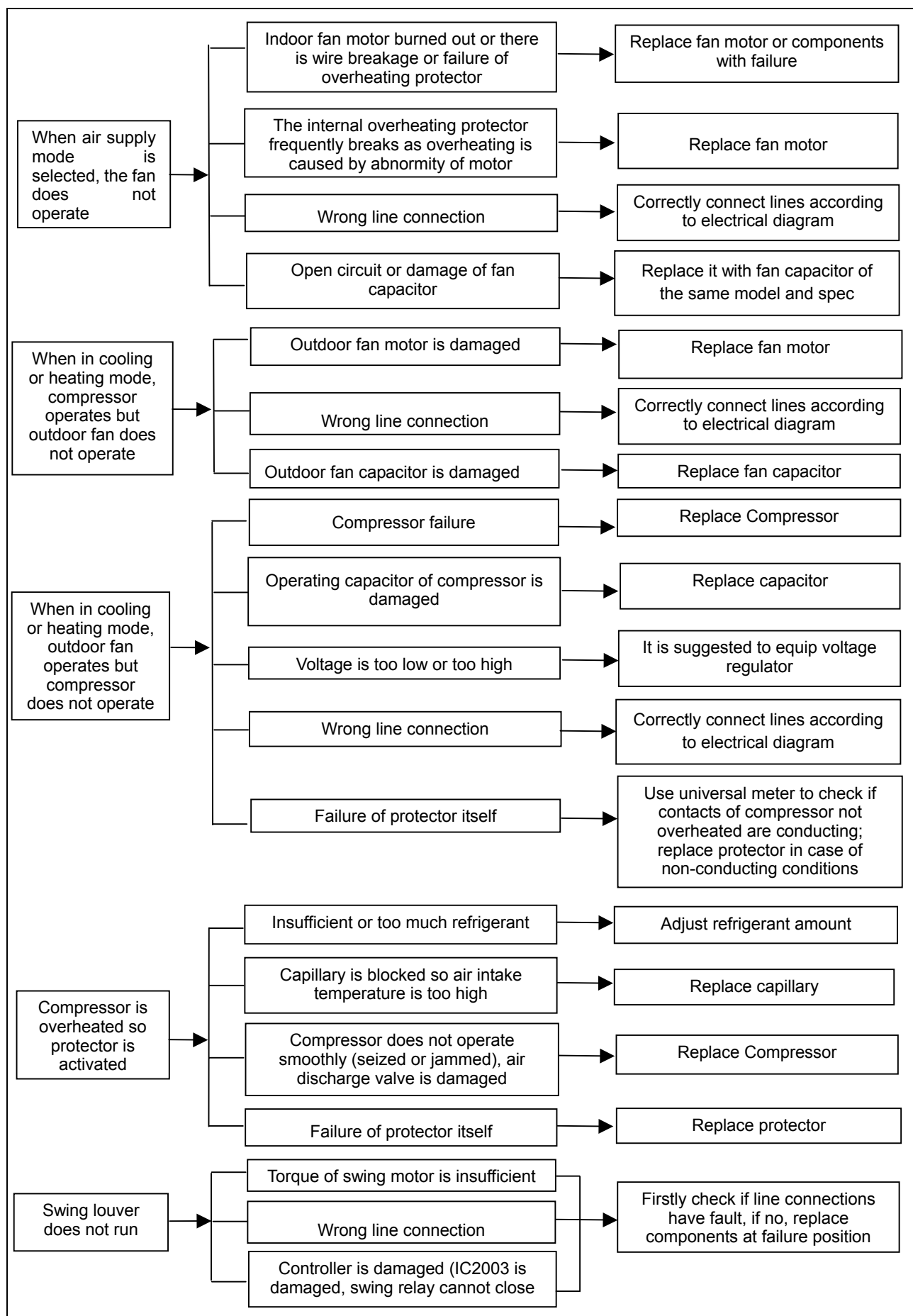
Figure 7-25

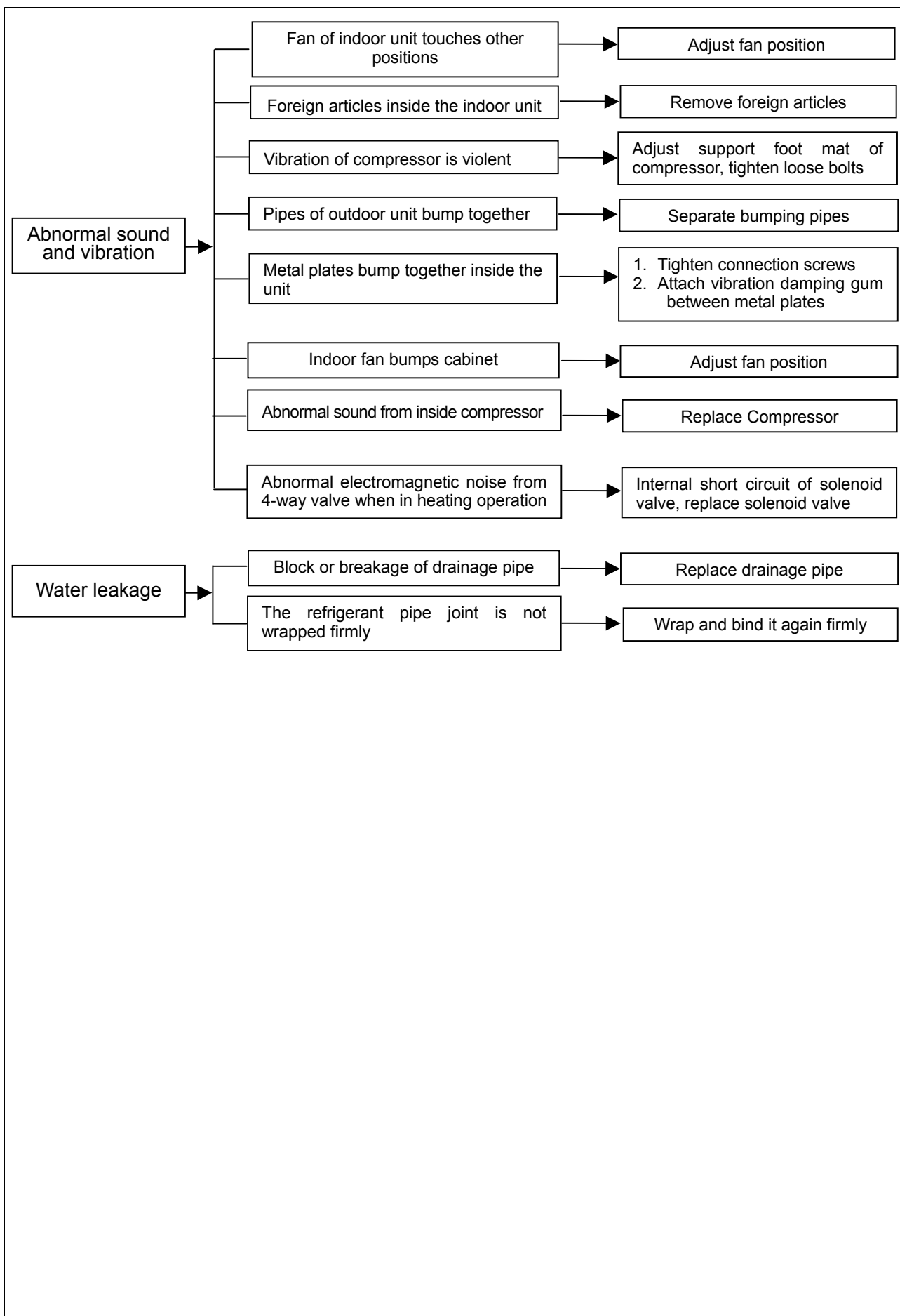
9

Trouble-Shooting









PARTS GUIDE

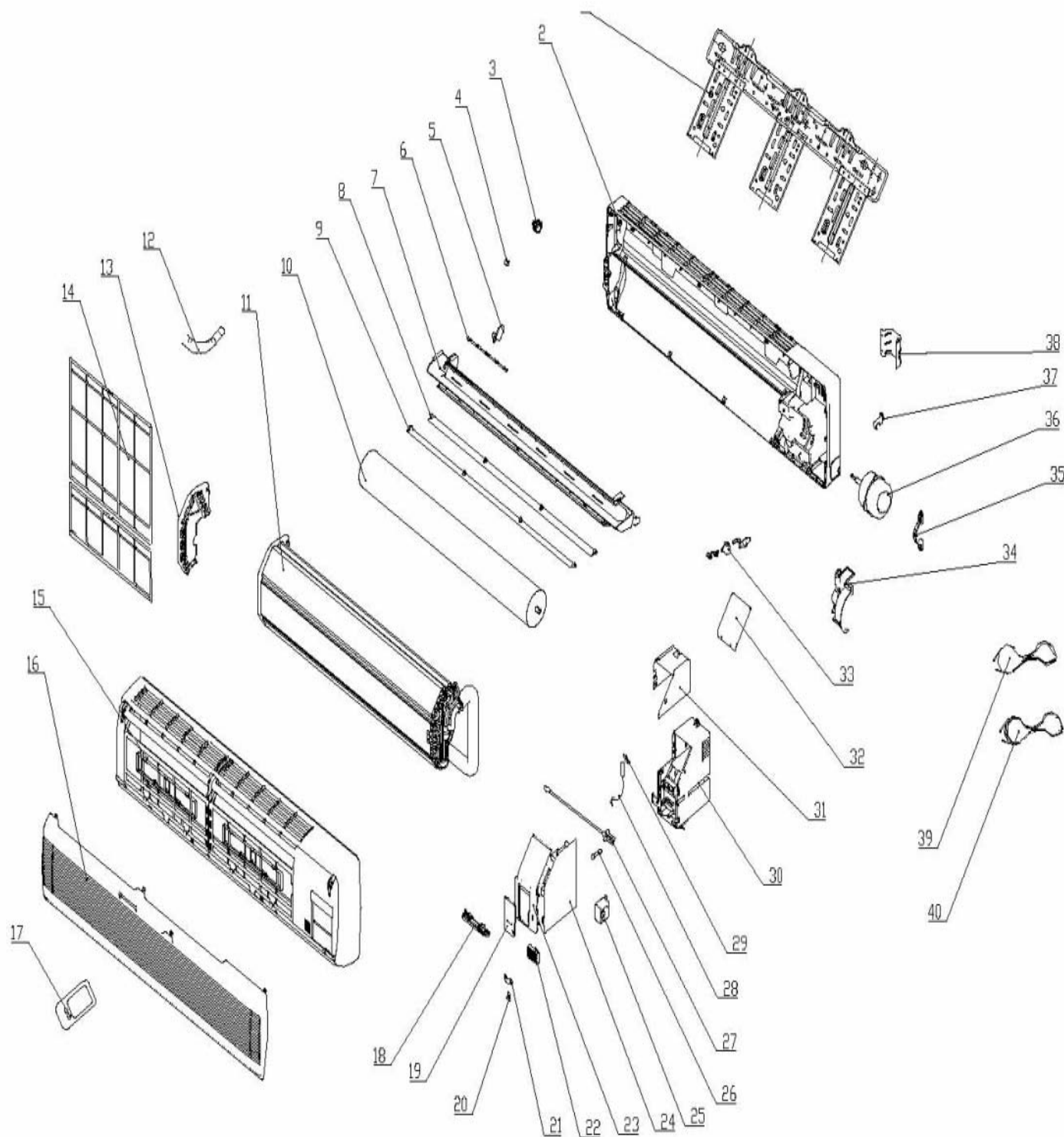
TITAN SERIES

ASH-28AT



Explosive view and spare parts list of indoor unit

ASH-28AT

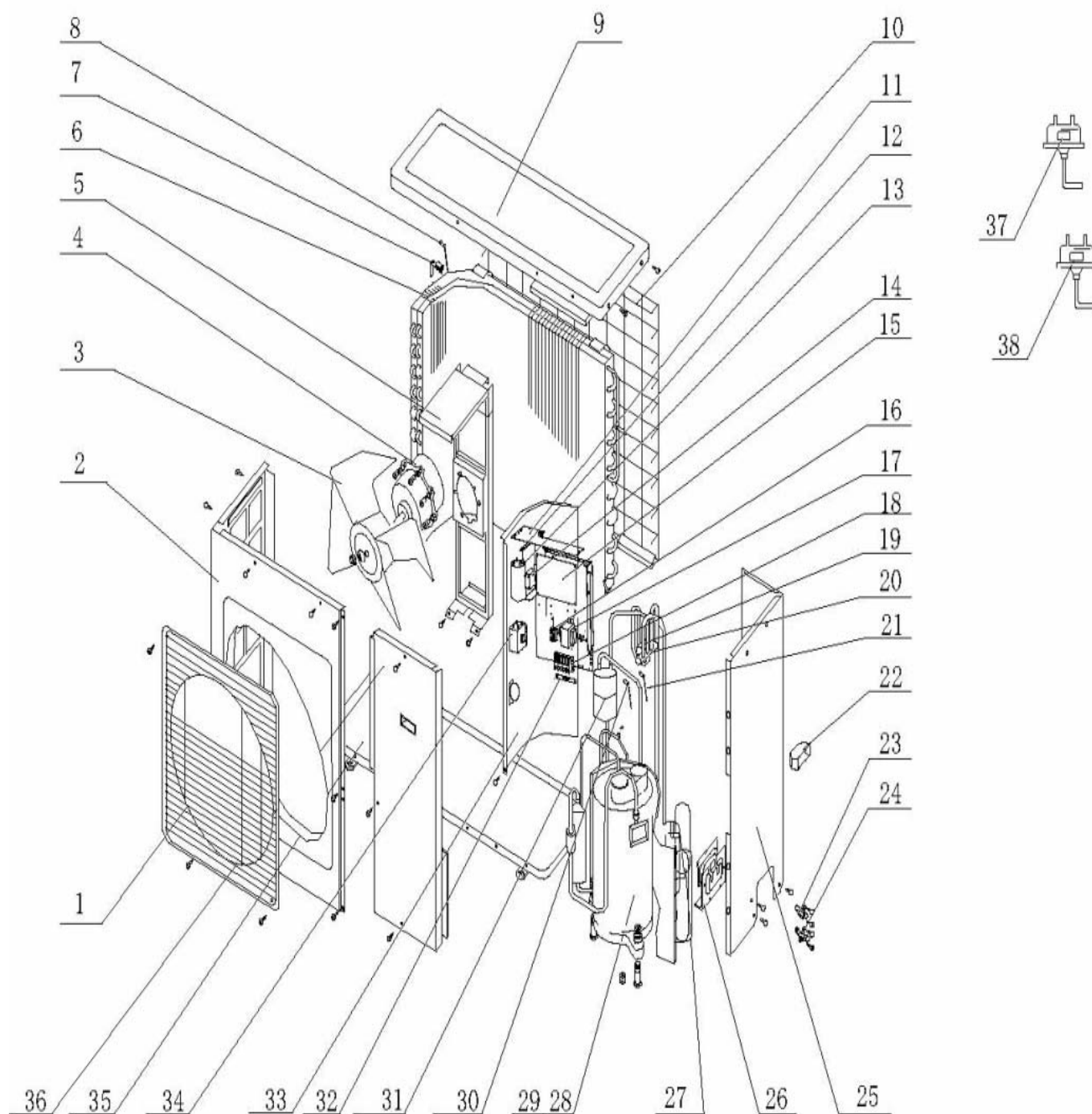


No.	Description	Part Code	Updated		Qty	Price Rank
			Part code	Date		
ASH-28AT Indoor Unit						
1	Wall Mounting Frame	01252398			1	AL
2	Rear Case	22202040			1	AW
3	O-Gasket of Cross Fan Bearing	76512203			1	AC
4	Screw Cap	242520053			3	AB
5	Air Louver	10512030			15	AC
6	Swing Lever	10582040			3	AD
7	Water Tray	20182043			1	AM
8	Upper Air Deflector	10512062			1	AE
9	Lower Guide Louver	10512063			1	AE
10	Cross Flow Fan	10352420			1	AU
11	Evaporator Assy	010041299			1	BS
12	Drain Pipe	05232411			1	AD
13	Evaporator Left Support	24212041			1	AG
14	Filter Sub-Assy	11122051			2	AD
15	Front Case Sub-Assy	20002572			1	AU
16	Front Panel	20002375			1	AP
17	Remote Control Y512	305125063			1	AT
18	Receiver Board	30046093			1	AL
19	Electric Box Cover	20102252			1	AC
20	Toggle Switch	10582007			1	AB
21	Fixed Clamp	71010103			1	AB
22	4-bit Terminal Board	42011233			1	AF
23	Electric Box Cover	20102251			1	AK
24	Main Board	30030303			1	BB
25	Transformer 48X26G	43110233			1	AH
26	Protective Tube	46010014			1	AA
27	Ambient Temperature Sensor	390000451			1	AD
28	Tube Sensor	390000591			1	AD
29	Sensor Insert	42020063			1	AD
30	Electric Box	20102250			1	AK
31	Shield Cover for Electric Box	01592034			1	AE
32	Shield Cover for Electric Box	01592033			1	AC
33	Stepping Motor	15212102			1	AF
34	Retaining Plate of Evaporator	24212042			1	AD
35	Motor Fixed Clip	26112069			1	AC
36	Fan Motor	15012105			1	AY
37	Fixed Clip	02112009			1	AD
38	Pipe Clamp	26112071			1	AC
39	Connecting Cable	400205235			1	AN
40	Connecting Cable	400205405			1	AP

The data are subject to change without notice.

Explosive view and spare parts list of outdoor unit

ASH-28AT



No.	Description	Part Code	Updated		Qty	Price Rank
			Part code	Date		
ASH-28AT - Outdoor Unit						
1	Front Grill	22265401			1	AL
2	Housing	01435402			1	AX
3	Axial-flow Fan	10335401			1	AN
4	Fan Motor	15015401			1	BC
5	Motor Support	01705401			1	AP
6	Condenser Assy	011032344			1	BW
7	Temperature Sensor	24215101			1	AD
8	Temperature Sensor	390002064			1	AD
9	Top Cover	01255402			1	AQ
10	Rear Grill	01475401			1	AG
11	Electric Box Cover	01413075			1	AE
12	Electric Box	01413074			1	AF
13	Capacitor	33010743			2	AH
14	Capacitor	33010010			1	AD
15	Main Board	30030302			1	AZ
16	Terminal Board 2-8	42011103			1	AD
17	Transformer 57X30G	43110232			1	AL
18	Terminal Board	42010258			1	AF
19	4-way Valve Accessary	430004002			1	AK
20	4-way Valve	43000411			1	AV
21	Tube Sensor	390001921			1	AD
22	Handle	26235253			1	AC
23	Gas Valve Sub-Assy	07103030			1	AV
24	Cut-off Valve	07130209			1	AN
25	Rear Side Plate Sub-Assy	01308748			1	AR
26	Valve Support	01715256			1	AH
27	Capillary Assy	03103305			1	AY
28	Compressor and Fittings	00103010			1	BX
29	Overload Protector				1	
30	Temp Sensor				1	
31	Gas-liquid Separator	07255251			1	AT
32	Isolation Washer	70410523			1	AC
33	Clapboard Sub-Assy	01235403			1	AQ
34	AC Contactor	44010263			1	AN
35	Underpan	01215401			1	AU
36	Front Side Plate	01305403			1	AQ
37	Low Pressure Switch	46020007			1	AN
38	Pressure Switch	460200061			1	AL

The data are subject to change without notice.