GREE
Change for Life

Service Manual

MODEL: GJC07AF-K3RNB9D
GJC09AF-K3RNB9D
GJC12AD-K3RNB9D
GJC18AC-K3RNB9D
GJC21AC-K3RNB9D
GJH07AF-K3RND2A
GJH07AF-K3RNB9D
GJH09AF-K3RNB9D
GJH09AF-K3RND2A
GJH12AD-K3RNB9D
GJH12AD-K3RND2A
GJH18AC-K3RNB9D
GJH18AC-K3RND2A
GJH21AC-K3RNB9D
GJH21AC-K3RND2A
(Refrigerant R410A)

GREE ELECTRIC APPLIANCES,INC.OF ZHUHAI

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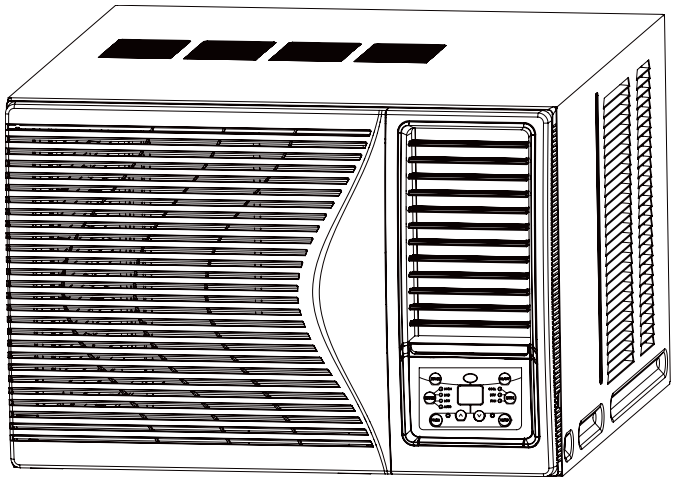

GJH07AF-K3RND2A
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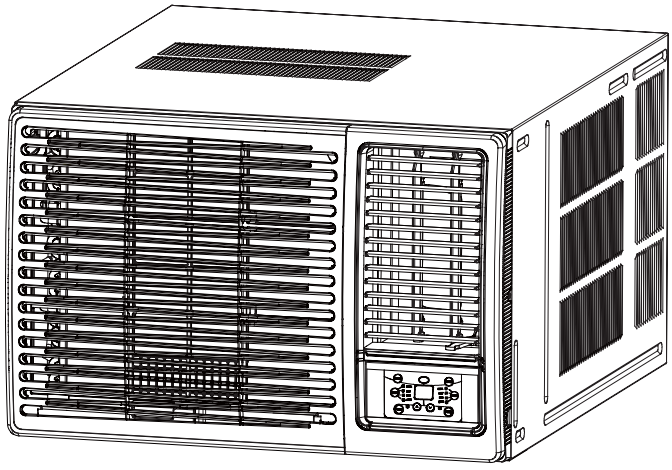


Remote Controller :

YS1FA

1.Safety Precautions

Installing, starting up, and servicing air conditioner can be hazardous due to system pressure, electrical components, and equipment location, etc.

Only trained, qualified installers and service personnel are allowed to install, start-up, and service this equipment. Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel.

When handling the equipment, observe precautions in the manual and on tags, stickers, and labels attached to the equipment. Follow all safety codes. Wear safety glasses andwork gloves. Keep quenching cloth and fire extinguisher nearby when brazing.

Read the instructions thoroughly and follow all warnings or cautions in literature and attached to the unit. Consult local building codes and current editions of national as well as local electrical codes.

Recognize the following safety information:

⚠ Warning	Incorrect handling could result in personal injury or death.
⚠ Caution	Incorrect handling may result in minor injury,or damage to product or property.

⚠ Warning

All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.

- Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.
- Never supply power to the unit unless all wiring and tubing are completed, reconnected and checked.
- This system adopts highly dangerous electrical voltage. Incorrect connection or inadequate grounding can cause personal injury or death. Stick to the wiring diagram and all the instructions when wiring.
- Have the unit adequately grounded in accordance with local electrical codes.
- Have all wiring connected tightly. Loose connection may lead to overheating and a possible fire hazard.

All installation or repair work shall be performed by your dealer or a specialized subcontractor as there is the risk of fire, electric shock, explosion or injury.

- A large enough opening for the air conditioner.Installation parts are supplied for double-hung windows.
- Make sure the ceiling/wall is strong enough to bear the weight of the unit.
- Adequate wall support for weight of air conditioner.
- Follow all the installation instructions to minimize the risk of damage from earthquakes, typhoons or strong winds.
- Avoid contact between refrigerant and fire as it generates poisonous gas.
- Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture and other hazards.
- Make sure no refrigerant gas is leaking out when installation is completed.
- Should there be refrigerant leakage, the density of refrigerant in the air shall in no way exceed its limited value, or it may lead to explosion.
- Keep your fingers and clothing away from any moving parts.
- Clear the site after installation. Make sure no foreign objects are left in the unit.
- Always ensure effective grounding for the unit.

⚠ Caution

- Never install the unit in a place where a combustible gas might leak, or it may lead to fire or explosion.
- Make a proper provision against noise when the unit is installed at a telecommunication center or hospital.
- Provide an electric leak breaker when it is installed in a watery place.
- Never wash the unit with water.
- Handle unit transportation with care. The unit should not be carried by only one person if it is more than 20kg.
- Never touch the heat exchanger fins with bare hands.
- Never touch the compressor or refrigerant piping without wearing glove.
- Do not have the unit operate without air filter.
- Should any emergency occur, stop the unit and disconnect the power immediately.
- Properly insulate any tubing running inside the room to prevent the water from damaging the wall.

2.Specifications

Parameter		Unit	Value	
Model			GJC07AF-K3RNB9D	GJH07AF-K3RNB9D GJH07AF-K3RND2A
Product Code			CC052015100	CC052015600 CC052022700
Power Supply	Rated Voltage	V ～	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Cooling Capacity		W	2200	2200
Heating Capacity		W	/	1900
Cooling Power Input		W	660	660
Heating Power Input		W	/	570
Cooling Power Current		A	2.87	2.87
Heating Power Current		A	/	2.50
Rated Input		W	900	900
Rated Current		A	5.00	5.00
Air Flow Volume(H/M/L)		m^3/h	470/420/370	470/420/370
Dehumidifying Volume		L/h	0.5	0.5
EER		W/W	3.33	3.33
COP		W/W	/	3.33
Application Area		m^2	7-12	7-12
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IP24	IP24
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHXD)		mm	560X375X668	560X375X668
Dimension of Carton Box (LXWXH)		mm	763X620X410	763X620X410
Dimension of Package (LXWXH)		mm	766X623X425	766X623X425
Net Weight		kg	43.0	44.0
Gross Weight		kg	47.0	48.0
Refrigerant			R410A	R410A
Refrigerant Charge		kg	0.65	0.75

Indoor Side	Fan Type		Centrifugal	Centrifugal
	Diameter Length(DXL)	mm	Φ205.5X111	Φ205.5X111
	Fan Motor Speed(H/M/L)	r/min	1270/1180/1090	930/870/810
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.50	0.50
	Fan Motor Capacitor	μF	3.5	3.5
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	3-1.3	3-1.3
	Coil Length (LXDXW)	mm	330X38.1X323.9	330X38.1X323.9
	Swing Motor Model		MP24VA	MP24VA
	Output of Swing Motor	W	1.5	1.5
	Fuse	A	3.15	3.15
	Sound Pressure Level (H/M/L)	dB (A)	49/47/45	49/47/45
	Sound Power Level (H/M/L)	dB (A)	59/57/55	59/57/55
Outdoor Side	Compressor Manufacturer/ Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXA-B080C190	QXA-B080C190
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	17.00	17.00
	Compressor RLA	A	3.20	3.20
	Compressor Power Input	W	660	660
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Operation Temp	ºC	16~30	16~30
	Ambient Temp (Cooling)	ºC	18~43	18~43
	Ambient Temp (Heating)	ºC	/	-7~30
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	2-1.4
	Coil Length (LXDXW)	mm	597X25.4X342.9	771X25.4X343
	Fan Motor Speed(H/M/L)	rpm	930/870/810	930/870/810
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.50	0.50
	Fan Motor Capacitor	μF	3.5	3.5
	Air Flow Volume of Outdoor Side	m^3/h	850	850
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ353	Φ353
	Sound Pressure Level (H/M/L)	dB (A)	57/55/53	57/55/53
	Sound Power Level (H/M/L)	dB (A)	67/65/63	67/65/63
	Defrosting Method		/	Automatic Defrosting

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Parameter		Unit	Value	
Model			GJC09AF-K3RNB9D	GJH09AF-K3RNB9D GJH09AF-K3RND2A
Product Code			CC052015200	CC052015700 CC052020300
Power Supply	Rated Voltage	V ～	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Cooling Capacity		W	2700	2700
Heating Capacity		W	/	2400
Cooling Power Input		W	810	810
Heating Power Input		W	/	720
Cooling Power Current		A	3.52	3.52
Heating Power Current		A	/	3.10
Rated Input		W	1100	1100
Rated Current		A	5.56	5.56
Air Flow Volume(H/M/L)		m^3/h	470/420/370	470/420/370
Dehumidifying Volume		L/h	1	1
EER		W/W	3.33	3.33
COP		W/W	/	3.33
Application Area		m^2	12-18	12-18
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IP24	IP24
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHXD)		mm	560X375X668	560X375X668
Dimension of Carton Box (LXWXH)		mm	763X620X410	763X620X410
Dimension of Package (LXWXH)		mm	766X623X425	766X623X425
Net Weight		kg	43.0	44.0
Gross Weight		kg	47.0	48.0
Refrigerant			R410A	R410A
Refrigerant Charge		kg	0.65	0.75

Indoor Side	Fan Type		Centrifugal	Centrifugal
	Diameter Length(DXL)	mm	Φ205.5X111	Φ205.5X111
	Fan Motor Speed(H/M/L)	r/min	930/870/810	930/870/810
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.50	0.50
	Fan Motor Capacitor	μF	3.5	3.5
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7.94	Φ7.94
	Row-fin Gap	mm	3-1.3	3-1.3
	Coil Length (LXDXW)	mm	330X38.1X323.9	330X38.1X323.9
	Swing Motor Model		MP24VA	MP24VA
	Output of Swing Motor	W	1.5	1.5
	Fuse	A	3.15	3.15
	Sound Pressure Level (H/M/L)	dB (A)	49/47/45	49/47/45
	Sound Power Level (H/M/L)	dB (A)	59/57/55	59/57/55
Outdoor Side	Compressor Manufacturer/ Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXA-B102C190	QXA-B102C190
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	17.00	17.00
	Compressor RLA	A	3.90	3.90
	Compressor Power Input	W	845	845
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Operation Temp	ºC	16~30	16~30
	Ambient Temp (Cooling)	ºC	18~43	18~43
	Ambient Temp (Heating)	ºC	/	-7~30
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	2-1.4
	Coil Length (LXDXW)	mm	597X25.4X342.9	597X25.4X342.9
	Fan Motor Speed(H/M/L)	rpm	930/870/810	930/870/810
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.50	0.50
	Fan Motor Capacitor	μF	3.5	3.5
	Air Flow Volume of Outdoor Side	m^3/h	850	850
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ353	Φ353
	Sound Pressure Level (H/M/L)	dB (A)	57/55/53	57/55/53
	Sound Power Level (H/M/L)	dB (A)	67/65/63	67/65/63
	Defrosting Method		/	Automatic Defrosting

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Parameter		Unit	Value	
Model			GJC12AD-K3RNB9D	GJH12AD-K3RNB9D GJH12AD-K3RND2A
Product Code			CC052015300	CC052015800 CC052020400
Power Supply	Rated Voltage	V ～	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Cooling Capacity		W	3900	3900
Heating Capacity		W	/	3600
Cooling Power Input		W	1180	1180
Heating Power Input		W	/	1090
Cooling Power Current		A	5.36	5.36
Heating Power Current		A	/	4.70
Rated Input		W	1600	1600
Rated Current		A	8.10	8.10
Air Flow Volume(H/M/L)		m^3/h	630/580/530	630/580/530
Dehumidifying Volume		L/h	1.5	1.5
EER		W/W	3.31	3.31
COP		W/W	/	3.30
Application Area		m^2	16-24	16-24
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IP24	IP24
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHXD)		mm	660X428X700	660X428X700
Dimension of Carton Box (LXWXH)		mm	790X736X490	790X736X490
Dimension of Package (LXWXH)		mm	793X739X505	793X739X505
Net Weight		kg	55.0	57.0
Gross Weight		kg	60.0	62.0
Refrigerant			R410A	R410A
Refrigerant Charge		kg	0.92	1.10

Indoor Side	Fan Type		Centrifugal	Centrifugal
	Diameter Length(DXL)	mm	Φ201.5X109.5	Φ201.5X109.5
	Fan Motor Speed(H/M/L)	r/min	840/780/730	840/780/730
	Output of Fan Motor	W	88	88
	Fan Motor RLA	A	0.58	0.58
	Fan Motor Capacitor	μF	6	6
	Input of Heater	W	/	/
	Evaporator Form		Alumium Tube	Alumium Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	4-1.6	4-1.6
	Coil Length (LXDXW)	mm	392X50.8X381	392X50.8X381
	Swing Motor Model		MP28ED	MP28ED
	Output of Swing Motor	W	2.0	2.0
	Fuse	A	3.15	3.15
	Sound Pressure Level (H/M/L)	dB (A)	53/51/49	53/51/49
	Sound Power Level (H/M/L)	dB (A)	63/61/59	63/61/59
Outdoor Side	Compressor Manufacturer/ Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXA-C139B030A	QXA-C139B030A
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	26.00	26.00
	Compressor RLA	A	5.50	5.50
	Compressor Power Input	W	1165	1165
	Overload Protector		UP3-03/HPA-430	UP3-03/HPA-430
	Throttling Method		Capillary	Capillary
	Operation Temp	ºC	16~30	16~30
	Ambient Temp (Cooling)	ºC	18~43	18~43
	Ambient Temp (Heating)	ºC	/	-7~30
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.3	3-1.4
	Coil Length (LXDXW)	mm	597X25.4X342.9	758X25.4X342.9
	Fan Motor Speed(H/M/L)	rpm	840/780/730	840/780/730
	Output of Fan Motor	W	88	88
	Fan Motor RLA	A	0.58	0.58
	Fan Motor Capacitor	μF	6	6
	Air Flow Volume of Outdoor Side	m^3/h	1200	1200
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ396	Φ396
	Sound Pressure Level (H/M/L)	dB (A)	58/56/54	58/56/54
	Sound Power Level (H/M/L)	dB (A)	68/66/64	68/66/64
	Defrosting Method		/	Automatic Defrosting

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Parameter		Unit	Value	
Model			GJC18AC-K3RNB9D	GJH18AC-K3RNB9D GJH18AC-K3RND2A
Product Code			CC052015400	CC052015900 CC052020500
Power Supply	Rated Voltage	V ～	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Cooling Capacity		W	5300	5300
Heating Capacity		W	/	5000
Cooling Power Input		W	1600	1600
Heating Power Input		W	/	1500
Cooling Power Current		A	6.96	6.96
Heating Power Current		A	/	6.50
Rated Input		W	2000	2000
Rated Current		A	10.10	10.10
Air Flow Volume(H/M/L)		m^3/h	900/850/800	850/800/750
Dehumidifying Volume		L/h	2.2	2.2
EER		W/W	3.31	3.31
COP		W/W	/	3.33
Application Area		m^2	23-34	23-34
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IP24	IP24
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHXD)		mm	660X428X770	660X428X770
Dimension of Carton Box (LXWXH)		mm	736X860X500	736X860X500
Dimension of Package (LXWXH)		mm	739X863X515	739X863X515
Net Weight		kg	66.0	68.0
Gross Weight		kg	71.0	73.0
Refrigerant			R410A	R410A
Refrigerant Charge		kg	1.23	1.30

Indoor Side	Fan Type		Centrifugal	Centrifugal
	Diameter Length(DXL)	mm	Φ201.5X109.5	Φ201.5X109.5
	Fan Motor Speed(H/M/L)	r/min	1140/1040/940	1140/1040/940
	Output of Fan Motor	W	200	200
	Fan Motor RLA	A	0.80	0.80
	Fan Motor Capacitor	μF	7	7
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	3-1.6	4-1.6
	Coil Length (LXDXW)	mm	392X38.1X381	392X50.8X381
	Swing Motor Model		MP28ED	MP28ED
	Output of Swing Motor	W	2.0	2.0
	Fuse	A	3.15	3.15
	Sound Pressure Level (H/M/L)	dB (A)	55/53/51	55/53/51
	Sound Power Level (H/M/L)	dB (A)	65/63/61	65/63/61
Outdoor Side	Compressor Manufacturer/ Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXA-F19F090	QXA-F19F090
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	40.00	40.00
	Compressor RLA	A	7.25	7.25
	Compressor Power Input	W	1590	1590
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Operation Temp	ºC	16~30	16~30
	Ambient Temp (Cooling)	ºC	18~43	18~43
	Ambient Temp (Heating)	ºC	/	-7~30
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	3-1.4	3-1.4
	Coil Length (LXDXW)	mm	885X38.1X408	885X38.1X408
	Fan Motor Speed(H/M/L)	rpm	1140/1040/940	1140/1040/940
	Output of Fan Motor	W	200	200
	Fan Motor RLA	A	0.80	0.80
	Fan Motor Capacitor	μF	7	7
	Air Flow Volume of Outdoor Side	m^3/h	1800	1800
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ396	Φ396
	Sound Pressure Level (H/M/L)	dB (A)	63/60/58	63/60/58
	Sound Power Level (H/M/L)	dB (A)	7370/68	73/70/68
	Defrosting Method		/	Automatic Defrosting

The above data is subject to change without notice. Please refer to the nameplate of the unit.

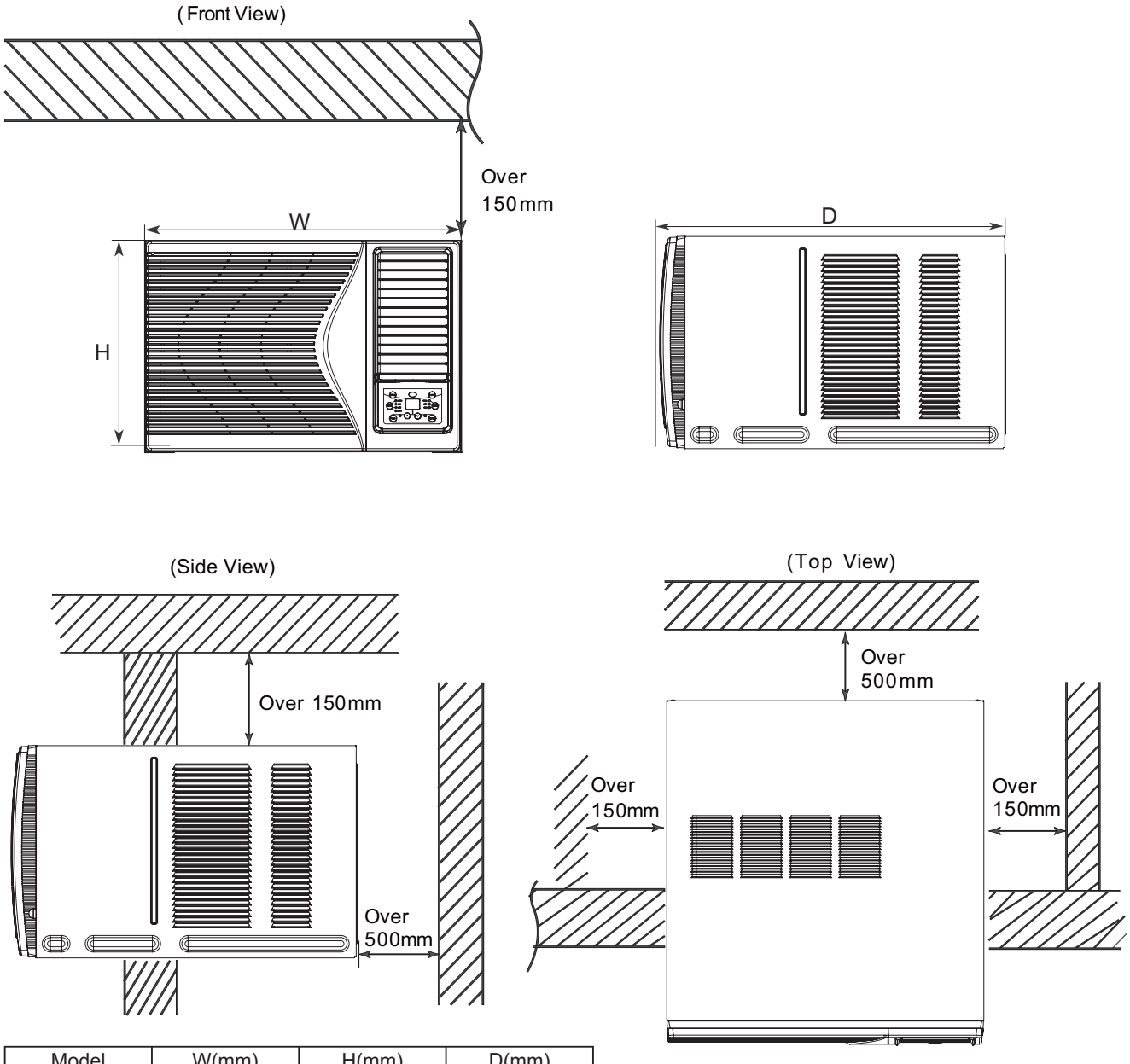
Parameter		Unit	Value	
Model			GJC21AC-K3RNB9D	GJH21AC-K3RNB9D GJH21AC-K3RND2A
Product Code			CC052015500	CC052016000 CC052020600
Power Supply	Rated Voltage	V ～	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Cooling Capacity		W	6000	6000
Heating Capacity		W	/	5500
Cooling Power Input		W	1810	1810
Heating Power Input		W	/	1660
Cooling Power Current		A	7.87	7.87
Heating Power Current		A	/	7.20
Rated Input		W	2300	2300
Rated Current		A	11.62	11.62
Air Flow Volume(H/M/L)		m^3/h	850/800/750	850/800/750
Dehumidifying Volume		L/h	2.2	2.2
EER		W/W	3.31	3.31
COP		W/W	/	3.31
Application Area		m^2	27-42	27-42
Climate Type			T1	T1
Isolation			I	I
Moisture Protection			IP24	IP24
Permissible Excessive Operating Pressure for the Discharge Side		MPa	4.3	4.3
Permissible Excessive Operating Pressure for the Suction Side		MPa	2.5	2.5
Dimension (WXHXD)		mm	660X428X770	660X428X770
Dimension of Carton Box (LXWXH)		mm	736X860X500	736X860X500
Dimension of Package (LXWXH)		mm	739X863X515	739X863X515
Net Weight		kg	69.0	70.0
Gross Weight		kg	74.0	75.0
Refrigerant			R410A	R410A
Refrigerant Charge		kg	1.33	1.45

Indoor Side	Fan Type		Centrifugal	Centrifugal
	Diameter Length(DXL)	mm	Φ201.5X109.5	Φ201.5X109.5
	Fan Motor Speed(H/M/L)	r/min	1140/1040/940	1140/1040/940
	Output of Fan Motor	W	200	200
	Fan Motor RLA	A	0.80	0.80
	Fan Motor Capacitor	μF	6	7
	Input of Heater	W	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Row-fin Gap	mm	4-1.6	4-1.6
	Coil Length (LXDXW)	mm	392X50.8X381	392X50.8X381
	Swing Motor Model		MP28ED	MP28ED
	Output of Swing Motor	W	2.0	2.0
	Fuse	A	3.15	3.15
	Sound Pressure Level (H/M/L)	dB (A)	56/54/52	56/54/52
	Sound Power Level (H/M/L)	dB (A)	66/64/62	66/64/62
Outdoor Side	Compressor Manufacturer/ Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXA-F22F090	QXA-F22F090
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	L.R.A.	A	42.00	42.00
	Compressor RLA	A	8.30	8.30
	Compressor Power Input	W	1800	1800
	Overload Protector		Internal	Internal
	Throttling Method		Capillary	Capillary
	Operation Temp	ºC	16~30	16~30
	Ambient Temp (Cooling)	ºC	18~43	18~43
	Ambient Temp (Heating)	ºC	/	-7~30
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	3-1.4	3-1.4
	Coil Length (LXDXW)	mm	935X38.1X400	935X38.1X400
	Fan Motor Speed(H/M/L)	rpm	1140/1040/940	1140/1040/940
	Output of Fan Motor	W	200	200
	Fan Motor RLA	A	0.80	0.80
	Fan Motor Capacitor	μF	6	6
	Air Flow Volume of Outdoor Side	m^3/h	1800	1800
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ396	Φ396
	Sound Pressure Level (H/M/L)	dB (A)	64/62/60	64/62/60
	Sound Power Level (H/M/L)	dB (A)	74/72/70	74/72/70
	Defrosting Method		/	Automatic Defrosting

The above data is subject to change without notice. Please refer to the nameplate of the unit.

3.Construction Views

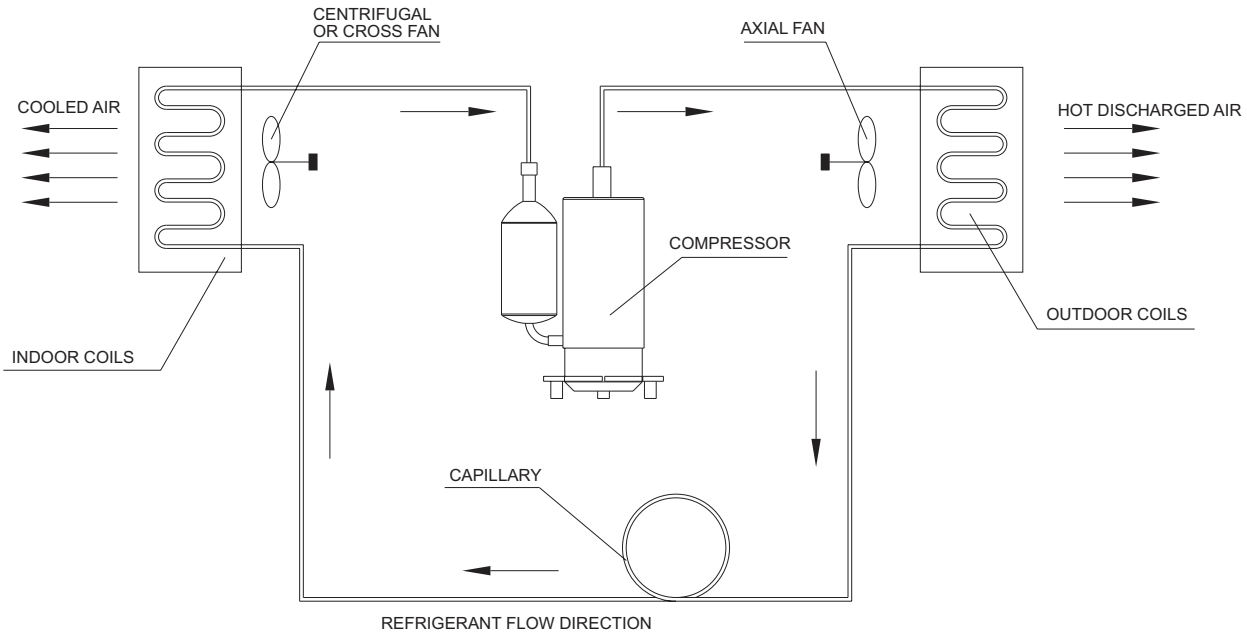
Take B9 panel for example



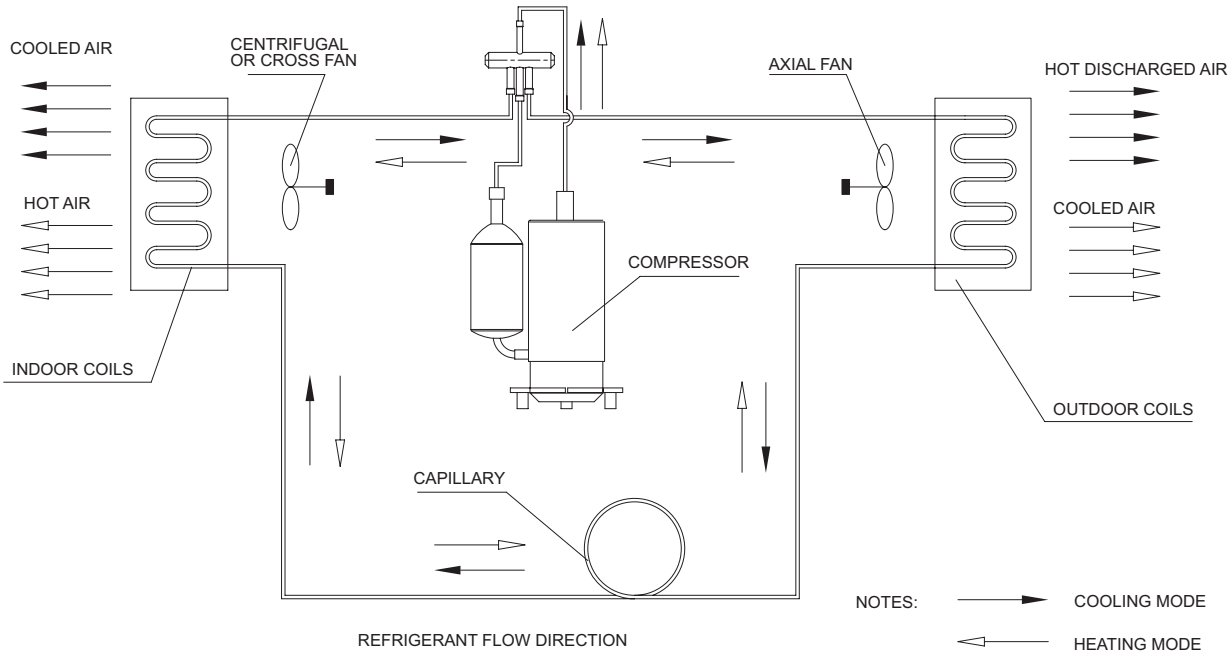
Model	W(mm)	H(mm)	D(mm)
07/09K	560	375	668
12K	660	420	700
18/21K	660	420	770

4.Refrigerant System Diagram

Cool only models



Cool and heat models



5.Schematic Diagram

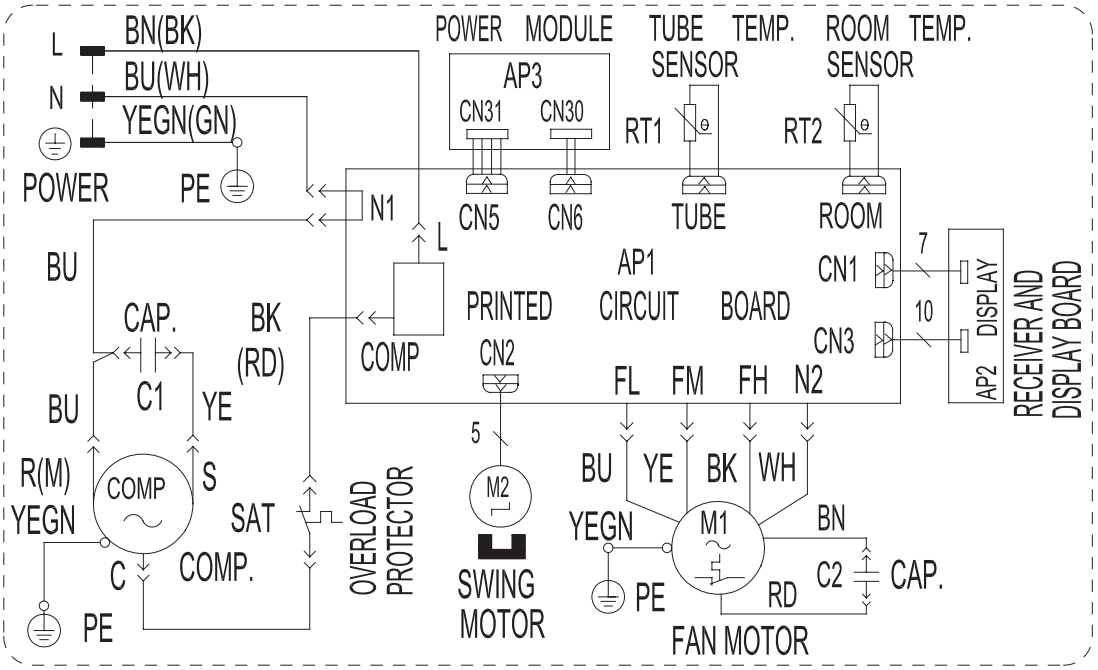
5.1 Electrical Data

Meaning of marks

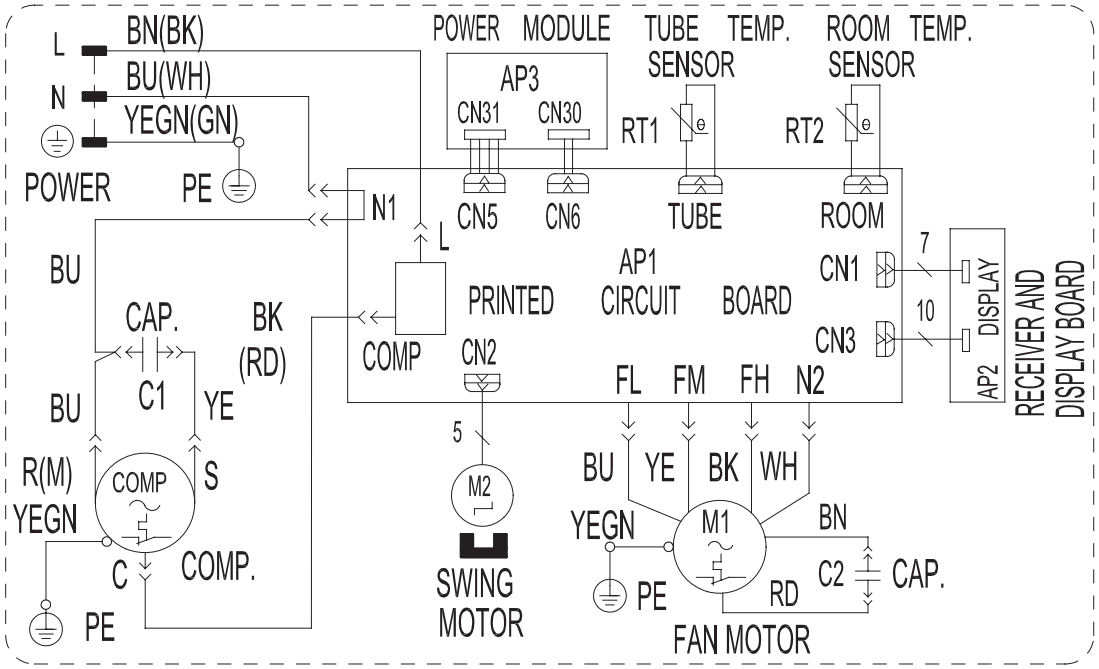
Symbol	Color symbol	Symbol	Color symbol
OG	ORANGE	BN	BROWN
VT	VIOLET	BU	BLUE
WH	WHITE	BK	BLACK
YE	YELLOW	**Symbol**	**Parts name**
RD	RED	COMP	COMPRESSOR
YEGN	YELLOW GREEN	⏚	PROTECTIVE EARTH

5.2 Electrical Wiring

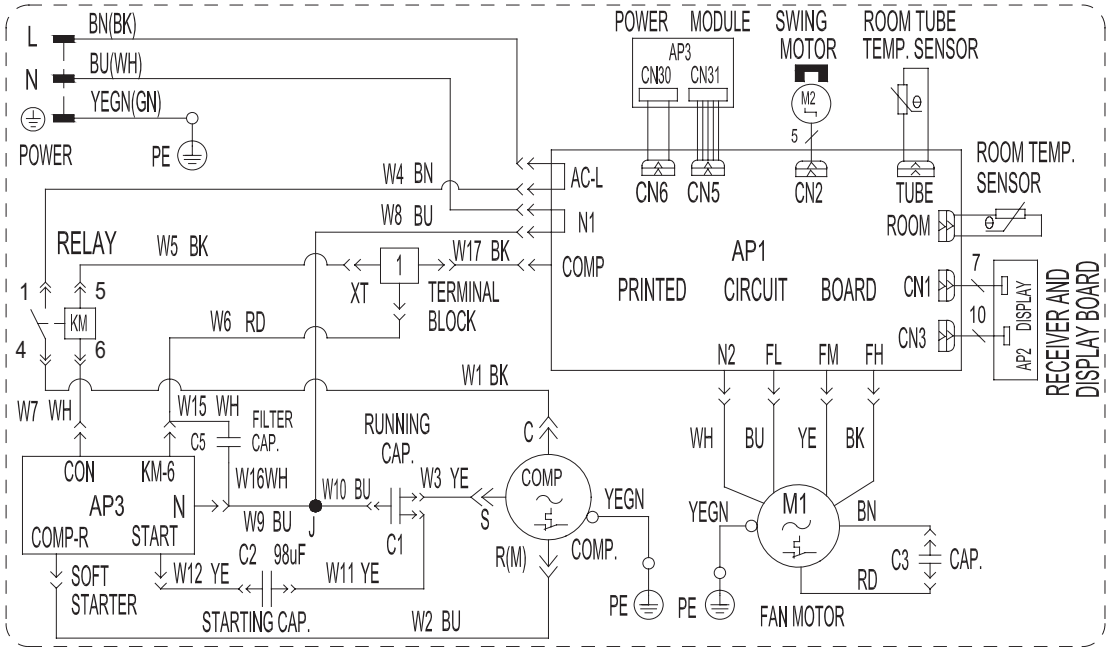
Models:GJC07AF-K3RNB9D GJC09AF-K3RNB9D



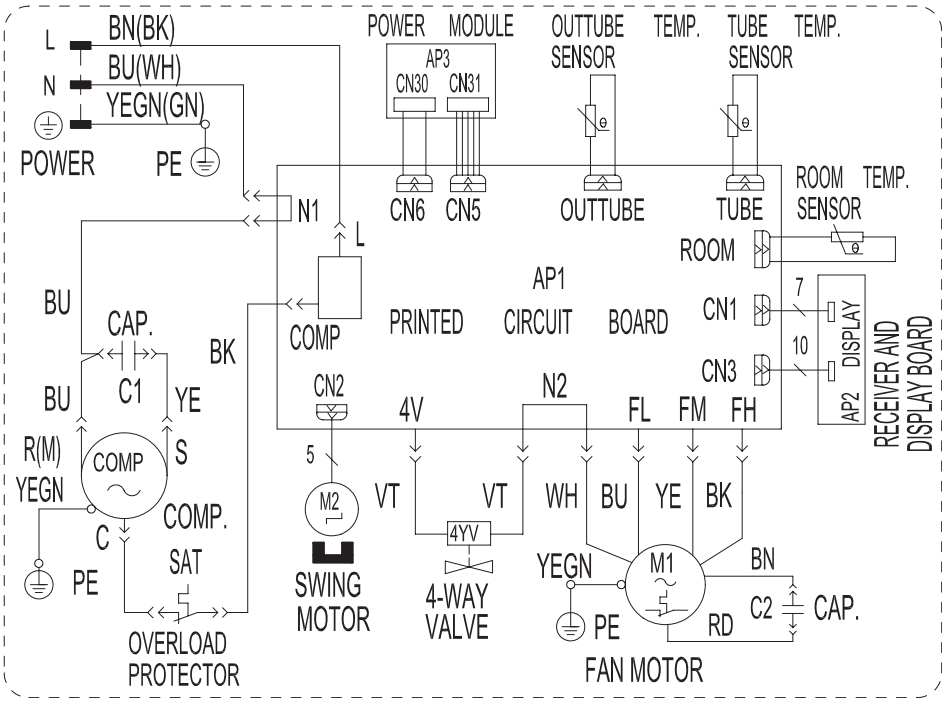
Models:GJC12AD-K3RNB9D GJC18AC-K3RNB9D



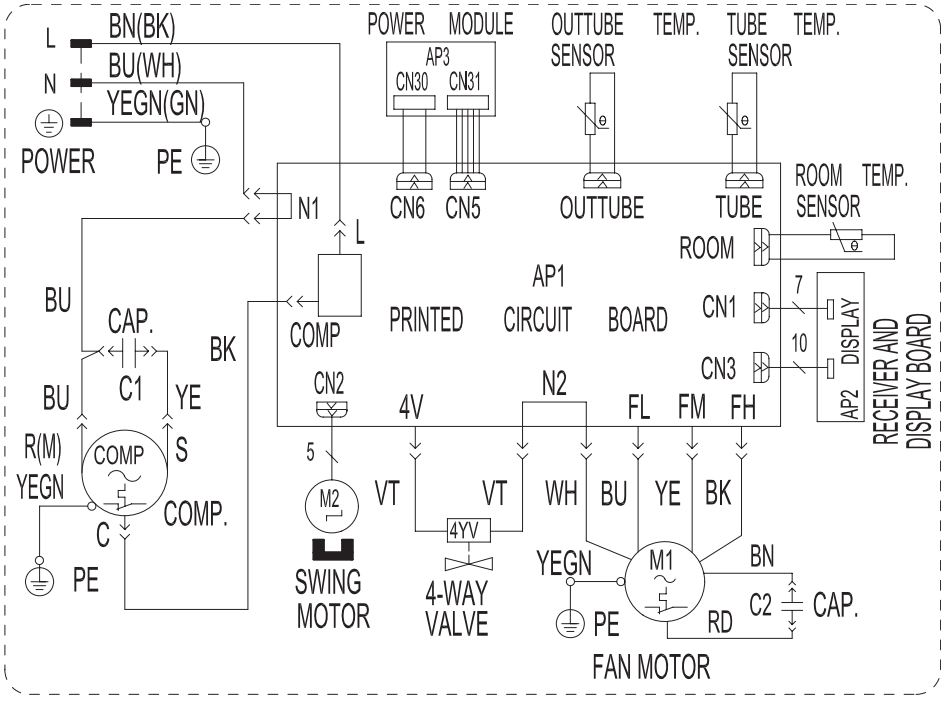
Model:GJC21AC-K3RNB9D



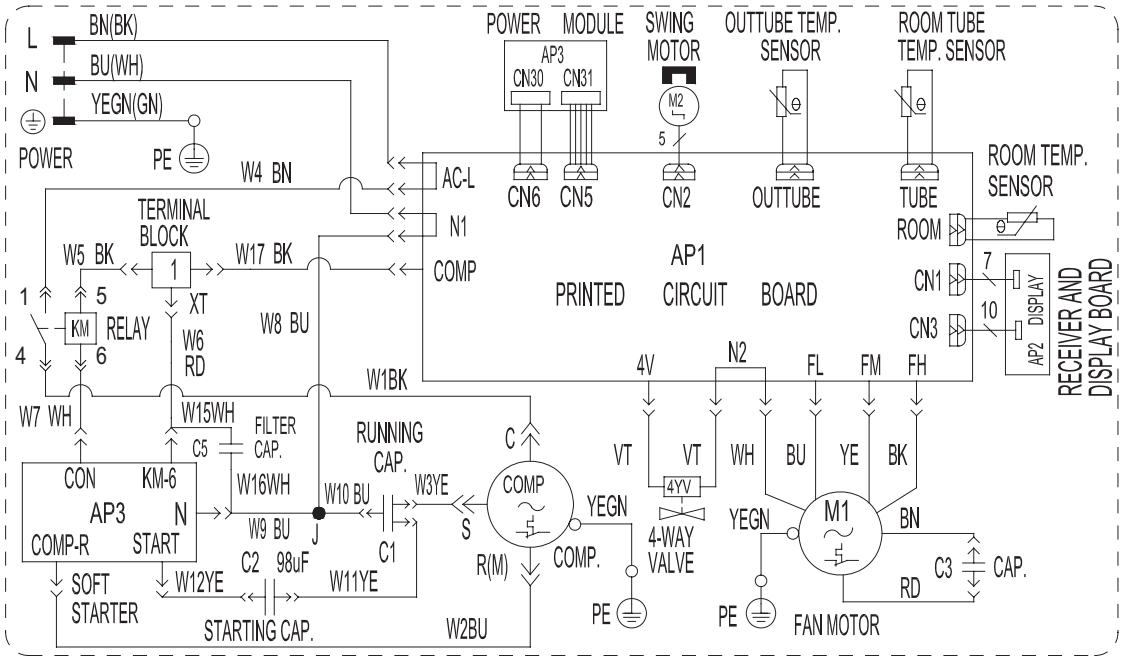
Models:GJH07AF-K3RNB9D GJH09AF-K3RNB9D GJH09AF-K3RND2A



Models:GJH07AF-K3RND2A GJH12AD-K3RNB9D GJH12AD-K3RND2A GJH18AC-K3RNB9D GJH18AC-K3RND2A



Model:GJH21AC-K3RNB9D GJH21AC-K3RND2A

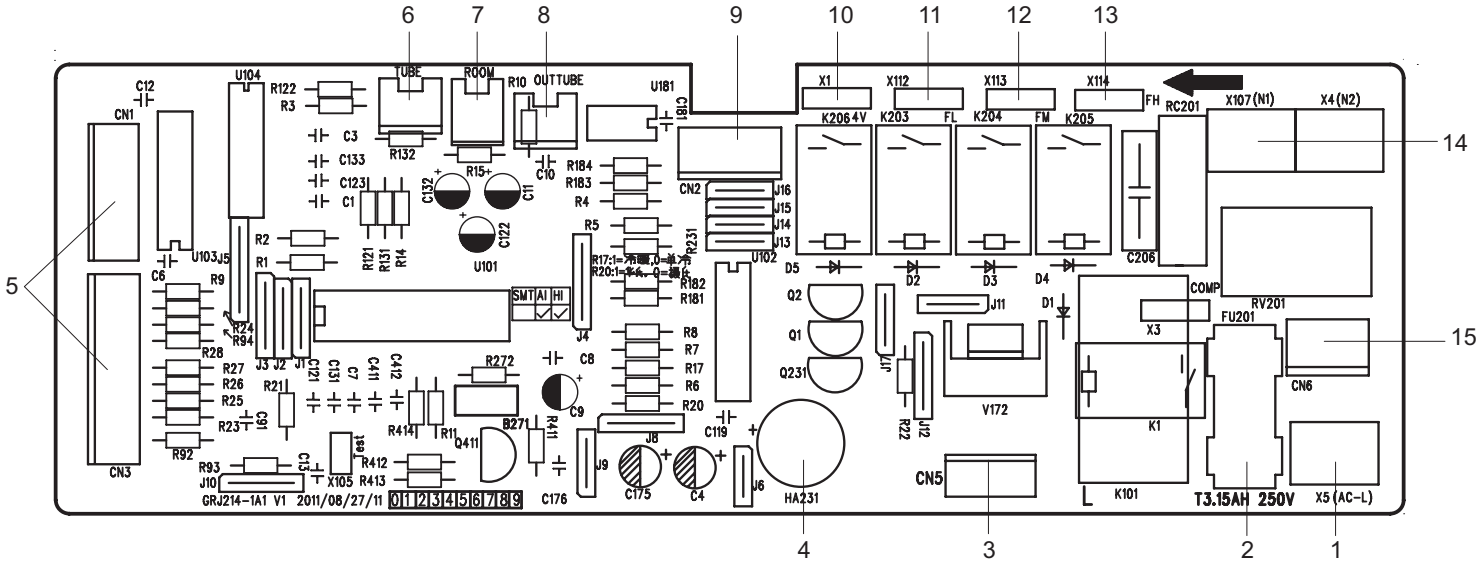


These circuit diagrams are subject to change without notice, please refer to the one supplied with the unit.

5.3 Printed Circuit Board

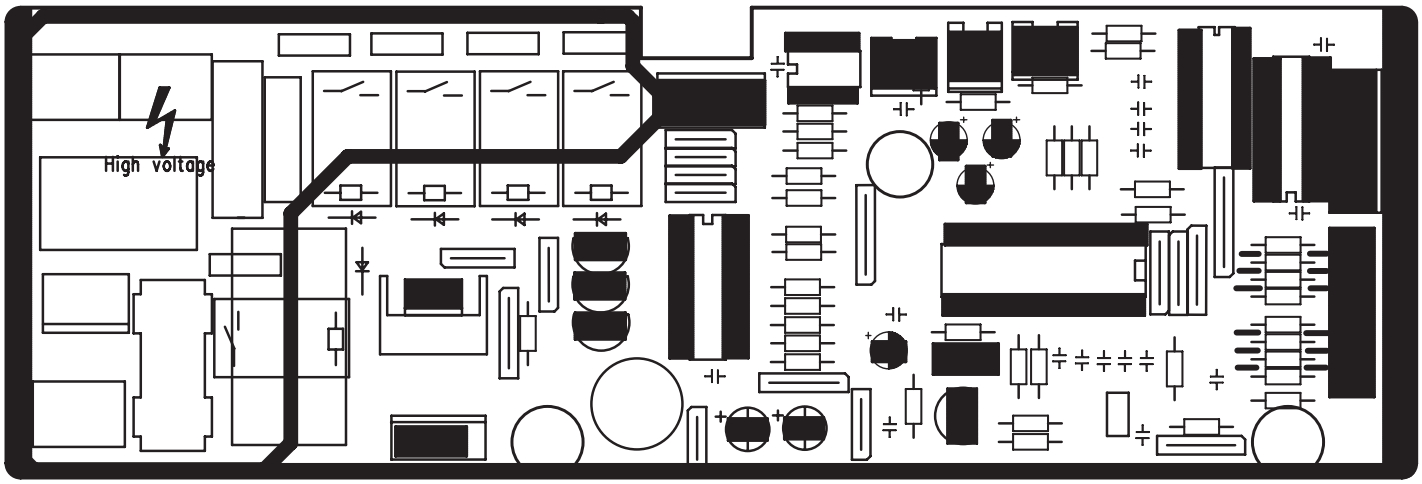
Main board

● TOP VIEW



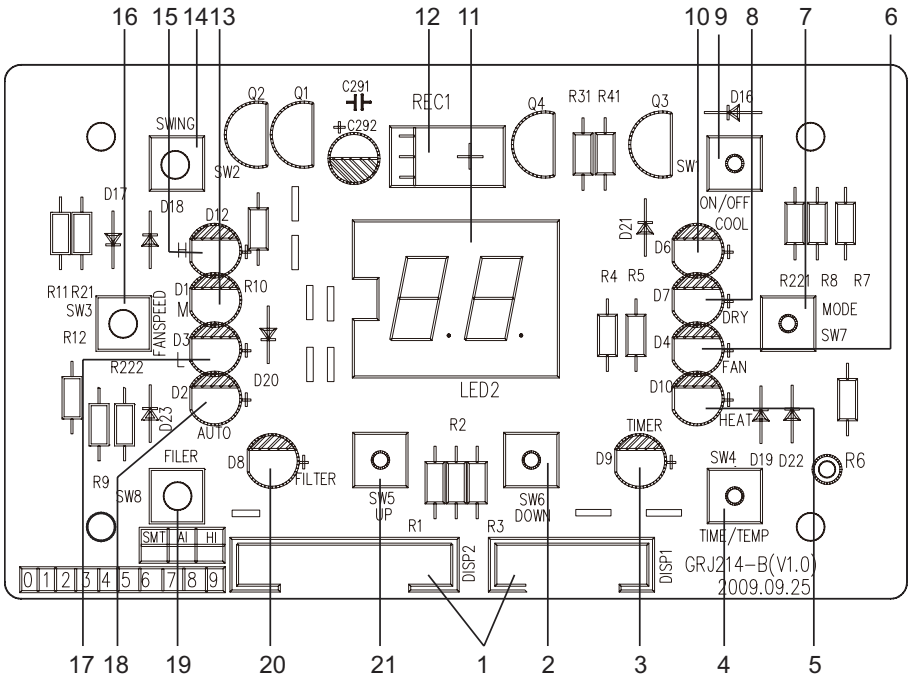
1	火线输入	2	保险管	3	12V 电源输入	4	蜂鸣器	5	显示板接口
6	管温感温包	7	环境感温包	8	外管感温包	9	扫风	10	四通阀
11	风机（高风速档）	12	风机（中风速档）	13	风机（低风速档）	14	零线	15	电源板电源接口

● BOTTOM VIEW



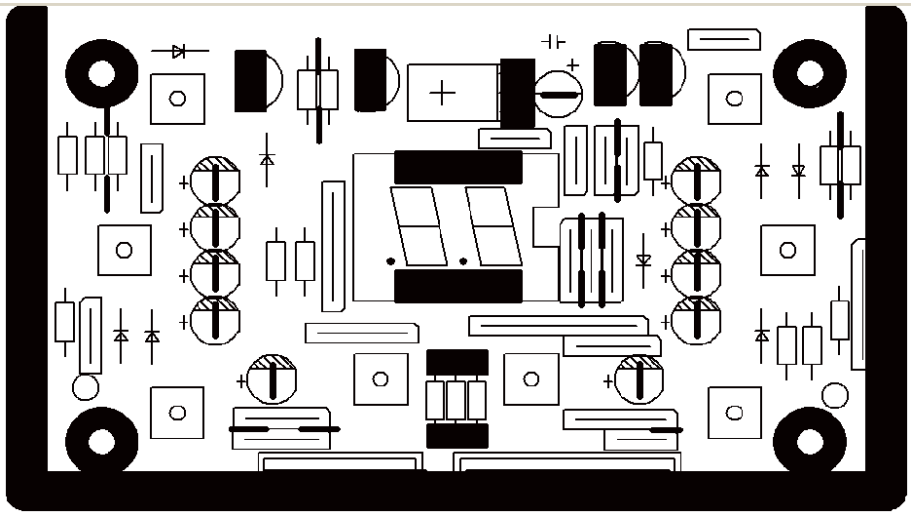
Display board

● TOP VIEW



No.	Name	No.	Name	No.	Name	No.	Name
1	Board connection wire, connect mainboard	7	Mode selection button	13	Medium fan speed indicator	19	Filter cleaning button
2	“-“ decreasing button	8	Cooling indicator	14	Swing button	20	Filter cleaning indicator
3	Timer indicator	9	ON/OFF button	15	High fan speed indicator	21	“+” increasing button
4	Timer button	10	Dry indicator	16	Fan speed button	22	/
5	Heating indicator	11	Dual-8 nixie tube	17	Low fan speed indicator	23	/
6	Blow indicator	12	Infrared receiver	18	Auto mode	24	/

● BOTTOM VIEW



6.Function and Control

6.1 Remote Control Operations

Note: This wireless remote control is universal,and it could be used for many other models. The buttons that are not relevant to this unit will not be described below.

Signal Transmitter

Remote Control

ON/OFF

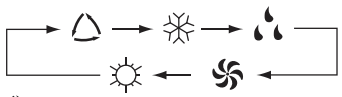
ON/OFF button

- Press this button to turn on the unit, press it again to turn off the unit.

MODE

MODE button

- Press this button, AUTO,COOL, DRY,FAN,HEAt mode can be selected circularly.It is defaulted AUTO mode after powering on the unit while the setting temperature will not be displayed.The initial setting temperature is 28℃(82˚F) under HEAT mode, 25℃(77˚F) under other modes.



AUTO
COOL
DRY
FAN
HEAT
(Only available for heating unit)

SLEEP

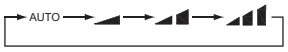
SLEEP button

- Press SLEEP button to select sleep on or sleep off. It is defaulted sleep off after powering on. will be displayed once sleep function is set on. The sleep function is not available under FAN or AUTO mode.

FAN

FAN button

- Press this button, AUTO,LOW,MED,HIGH speed can be circularly selected. After powering on the unit, auto fan speed is defaulted.Under DRY mode, only low fan speed can be set up.



LOW MED
HIGH

CLOCK

CLOCK button

- Press this button, the clock can be set up, blinks and displays.Within 5 seconds, the value can be adjusted by pressing + or - button,if consecutively press this button for more than 2 seconds, the value will be fast increasing. Press CLOCK again during blinking, will be displayed and the clock setting is done. It is defaulted displaying 12:00 and after powering on.Either clock time or timer time could be displayed.

SWING button

- When it is pressed,the louvers start to rotate automatically and stop when repressed.

Note: This wireless remote control is universal,and it could be used for many other models. The buttons that are not relevant to this unit will not be described below.

Remote Control

ENERGY SAVER

ENERGY SAVER button

- Under the COOL and DRY mode, press this button once, the unit will enter ENERGY SAVER mode.Press this button again, the unit will exit ENERGY SAVER mode.

LIGHT

LIGHT button

- Press this button to turn ON or OFF the light or display on the unit. The light or display is defaulted on after powering on the unit.

\+

+ button

- Press this button to increase setting temperature,hold for more than 2 seconds to rapidly increase setting temperature.In AUTO mode,setting temperature is not adjustable.Setting temperature Range of Celsius degree:16-30℃,Fahrenheit degree: 61-86˚F.

\-

- button

- Press this button to decrease setting temperature,hold for more than 2 seconds to rapidly decrease setting temperature. In AUTO mode,setting temperature is not adjustable.

TIMER ON

TIMER ON button

- At unit off,press TIMER ON button,HOUR ON will blink and display, ◷ will be concealed in the TIMER ON setting.During 5 seconds blinking,the value can be adjusted by pressing + or - button,every press of this button,0.5hour will be increased or decreased,by continuous pressing the + or - button,2 seconds later,the value will be changed quickly,0.5hour will be changed in every 0.25second automatically by the remote control.During blinking,press the TIMER ON button to confirm the time.After TIMER ON set up,with repressing the TIMER ON button,the TIMER ON setting will be canceled.After powered on,no timer is defaulted, HOUR ON(OFF)will not display, and only the clock is displayed.After the timer reached the setting time,HOUR ON(OFF) will conceal.Before setting the timer,please adjust the clock to the current actual time.

TIMER OFF

TIMER OFF button

- At unit on,press TIMER OFF button to enter into TIMER OFF setting.The method of setting up is the same as TIMER ON.

■ Guide for Operation - General Operation

1. After powering on,press ON/OFF button,the unit will start to run.(Note:When it is powered on,the guide louver of indoor unit will close automatically.)
2. Press MODE button to select desired running mode.
3. Pressing + or - button, to set the desired temperature.
4. Press FAN button to set AUTO,LOW,MED or HIGH fan speed.
5. Pressing button, to select the swing.

■ Guide for Operation - Optional Operation

1. Press SLEEP button, to set sleep.
2. Press TIMER ON and TIMER OFF button,to set the scheduled timer on or timer off.
3. Press LIGHT button, to control the on and off of the light or display on the unit.
4. Press ENERGY SAVER button to activate the function.

■ Introduction for Special Function

★ About AUTO mode

When AUTO mode is selected,the setting temperature will not be displayed on the remote control,the unit will be in accordance with the room temperature,and automatically select the suitable running method to make ambient comfortable.

★ About Lock

Press + and - buttons simultaneously to lock or unlock the keyboard of the remote control. If the keyboard is locked, will be displayed on it,press any button, will blink three times. If the keyboard is unlocked, the will not display.

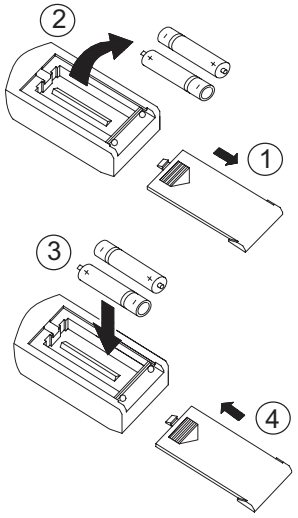
★ About Switch Between Fahrenheit and Centigrade

At unit off,press MODE and - button simultaneously to switch between ℃ and ℉.

Changing Batteries

1. Slightly press the place with ▽,and push the cover along the arrow.
2. Take out the used batteries. (As show in figure)
3. Insert two new AAA1.5V batteries,and pay attention to the polarity.
   (As show in figure)
4. Push the back cover of remote control.(As show inf figure)

NOTE:
When changing the batteries, do not mix used and new batteries, do not mix different batteries,otherwise, it can cause the malfunction of the remote control.



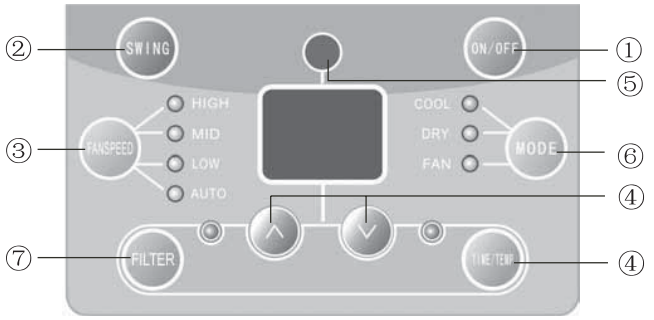
Sketch map for changing batteries

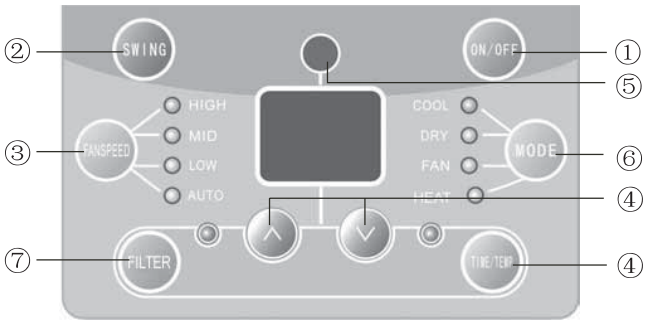
Notices

- If the remote control will not be used for a long time,please take out batteries to prevent any damage from liquid leakage.
- The operation should be in its receiving range.
- It should be placed 1m away from the TV or stereo sound sets.
- If the remote control can not work normally, please take out the batteries,then reinsert 30S after, if it does not run normally,change the batteries.
- Be sure that there are no obstructions between receiver and remote control,Don't drop or throw the remote control,Don't let any liquid get into the remote control or put the remote control directly under the sunlight or any place where is very hot.

6.2 Remote Control Panel

Note:If wireless remote controller is lost, open the surface panel and operate manually.





1 POWER BUTTON
Operation starts when pressing this button, and stops when pressing this button again.

2 SWING BUTTON
Activate the automatic air swing function.

3 FAN SPEED BUTTON
Select the fan speed HIGH, MID, LOW and AUTO in sequence.

4 TEMP/TIMER BUTTON
Press the ▲ keypad to increase the set (operating) temperature of the unit.and Press the ▼keypad to decrease the set (operating) temperature of the unit. The temperature seting range is from 16~30℃

Press the ▲ keypad also to increase the selected time in 1 hour increments,and Press the ▼ keypad to decrease the selected time in 1 hour decrements,The time seting range is from 0~24 hours.

5 SIGNAL RECEIVER

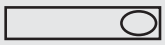
6 MODE BUTTON
Select the operation mode, AUTO, HEAT, COOL, FAN, DRY (for reverse cycle model) or AUTO,COOL,FAN, DRY (for cooling only model).

7 FILTER BUTTON
This feature is a reminder to clean the Air Filter (See Care and Cleaning) for more efficient operation and cooling. The LED (light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the "Check Filter" button and the light will go off.

VENTILATION LEVER

Ventilation Lever

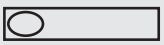
When the slider at the:



CLOSE ◀VENT▶OPEN

-"OPEN" position,the ventilation door opens to allow air,smoke or odors to be expelled from the room.

When the slider at the:



CLOSE ◀VENT▶OPEN

-"CLOSE" position,the ventilation door is closed and the air will be circulated inside the room and conditioned.

6.3 Description of Each Control Operation

1 Basic Function

1.1 Cooling mode

1.1.1 Cooling condition and process

a. When Tindoor amb.≥Tpreset+1℃（2℉）, the unit operates in cooling mode. Meanwhile, compressor and outdoor fan operate and indoor fan operates at set fan speed.

b. When Tindoor amb.≤Tpreset-1℃（2℉）, compressor and outdoor fan stop operation, while indoor fan operates at set fan speed.

c. When Tpreset-1℃（2℉）<Tindoor amb.<Tpreset+1℃（2℉）, the unit keeps original operation status.

1.1.2 In this mode, the set temperature range is 16℃~30℃ （61℉~86℉）

1.2 Dry Mode

Dry Conditions and Process

a. When Tamb. ＞Tpreset+2℃ (4℉), the unit will operate in Cool mode, and the fan will run at low speed.

b. When Tpreset-2℃ (4℉)≤Tamb. ≤Tpreset+2℃ (4℃), the unit will operate in Dry mode. In that case, the indoor fan will operate at low speed. The compressor and the outdoor fan will stop for 6 min and operate for 4min circularly.

c. When Tamb.＜Tpreset-4℉(2℃), the compressor will stop working and the fan will operate at low speed.

Under this mode, the setting temperature range is 16~30℃（61~86℉）

1.3 Energy saving mode

1.3.1 Drying condition and process

a. When Tindoor amb. ≥Tpreset + 1℃（2℉）， the compressor will be turned on and the fan will run at set fan speed.

b. When Tindoor amb.≤Tpreset – 1℃（2℉）, the compressor will stop operation and the indoor fan will also stop operation after operating at set fan speed for 60s.

c.When Tpreset – 1 ℃(2 ℉) ＜ Tindoor amb. ＜ Tpreset + 1℃（2 ℉）, the unit will keep previous operation status.

1.3.2 In this mode, the set temperature range is 16 ℃~30℃ （61℉~86℉）.

1.4 Heating mode

1.4.1 When Tindoor amb. ≤Tpreset+1℃(2℉), the unit will operate at heating mode. Meanwhile, 4-way valve and compressor will operate. Fan will operate at cold air prevention condition;

1.4.2 When Tindoor amb.≥Tpreset + 3℃（6℉）, compressor will stop operation while 4-way valve will be energized. Fan will operate at blowing residual heat mode.

1.4.3 When Tpreset + 1℃＜Tindoor amb ＜ Tpreset + 3℃（6℃）， the unit will keep its previous operation status;

1.4.4 Under this mode, the temperature setting range is 16-30 ℃(61-86℉).

1.5 Fan mode

a. In this mode, compressor and electric heating pipe will stop operation and fan will operate at set speed.

b. In this mode, the set temperature range is 16℃~30℃（61℉~86℉）.

1.6. Auto Mode

Working conditions and process

a. When Tamb.≥26℃ (79 ℉), the unit will operate in Cool mode. Tpreset=25℃（77℉）

b. When Tamb.≤22℃ (72 ℉), the heat pump unit will operate at heating mode and the cooling only unit will operate at fan mode; Tpreset=20℃（68℉）;

When 22℃ (72 ℉)＜Tamb.＜26℃ (79 ℉) , the unit will maintain its previous running state. But if the unit is energized for the first time, it will operate at fan mode.

2. Other function

2.1 Swing

When the fan operates, if swing is set, the swing motor will operate; When swing stops, the louver will stop in the position at that time.

2.2 Buzzer

Upon energization or operation, the buzzer will give out sound.

2.3 Sleep function

a.In Cool, Energy-saving or Dry mode, 1 hour after setting Sleep function, Tpreset will increase 1℃(2℉); 2hours later, Tpreset will not increase 2℃(4℉) totally. Then, the setting temperature will not change, but the upper limit of setting temperature is 30℃(86℉).

b. In heat mode, 1 hour after setting Sleep function, Tpreset will decrease 1℃(2℉); 2hours later, Tpreset will not decrease 2℃(4℉) totally. Then, the setting temperature will not change, but the lower limit of setting temperature is 16℃(61℉).

c. In Auto and Fan mode, there is no Sleep function.

d. If Sleep function has been set, the mode change will cancel the Sleep function.

2.4 Auto fan speed

a. Auto fan speed under heating mode or auto fan mode:

Tamb ≤Tpreset - 2 ℃（4℉） High speed;

Tpreset-2 ℃（4℉） ＜Tamb. ＜Tpreset Medium speed;

Tamb.≥Tpreset Low speed;

b. Auto fan speed under cooling mode

Tamb ≥Tpreset + 2 ℃（4℉） High speed;

Tpreset ＜Tamb. ＜Tpreset + 2 ℃（4℉） Medium speed;

Tamb.≤Tpreset Low speed;

b. Auto fan speed under energy saving mode or fan mode is as that under cooling mode.
c. If under dry mode, the auto fan speed will be always low speed. Only LED lamp for low speed is on.

2. 5 Alarm for Cleaning Filter

After the cumulative running of fan reaches 250h, the LED lamp of cleaning filter is on to remind customer of cleaning filter.

2.6 Timer Function

a. Timer on: it can be set when the unit is turned off. Set time range of timer is 0.5h~24h. The interval of each setting is 0.5h. When timer on is reached, the unit will operate at set mode.
b. Timer off: it can be set when the unit is operating. Set time range of timer is 0.5h~24h. The interval of each setting is 0.5h.When timer off is reached, the unit will be turned off.

2.7 Memory Function

When the unit is energized again after power failure, it will resume the previous operation status. If the unit is operating when power failure occurs, the compressor will be started up in 3 min later as the unit is energized again.

2.8 LED lamp, “Dual 8” NixieTube

a. When the unit is operating in cooling mode, LED lamp of cooling will be on.
b. When the unit is operating in fan mode, LED lamp of fan mode will be on and “dual 8” nixie tube will display ambient temperature. The temperature can’t be adjusted.
c. When the unit is operating at energy-saving mode, there is no LED lamp that will be on and “dual 8”nixie tube will display ambient temperature. The temperature can be adjusted.
d. Under fan mode, the LED lamp for fan mode will be on while under dry mode, the LED lamp for dry mode will be on.
e. When fan speed is low, medium or high, the corresponding LED lamp (indicating low, medium or high speed) will be on. If it is auto fan speed, the LED lamp of auto fan speed will be on.
d. When timer is set, the LED lamp of timer will be on. When the unit is under heating mode, the LED lamp for heating mode will be on.

2.9 Set Temperature

a. The temperature can be set by button “ UP/DOWN” and the set temperature will be displayed on nixie tube. If pressing “UP/DOWN” button for long time, the set temperature will be increased rapidly.
b. ℃ or ℉ can be switched on nixie tube by pressing buttons “UP” and “down” simultaneously for 3 seconds.

2.10 Button

a. ON/OFF button is used for turning on or turning off the unit. When the unit is turned off, press this button to turn on the unit; when the unit is turned off, press this button to turn on the unit.

b. SWING button is used for controlling swing function. If swing function is set, press this button to turn it off. If it is not set, press this button to turn it on.
c. FANSPEED button is used for adjusting fan speed. The fan speed will be circulated according to the sequence of AUTO FAN, FANL, FANM, FANH, ATUO FAN.
d. UP, DOWN buttons are used for increasing and decreasing temperature and timer.
e. Mode button is used for mode switching. For heat pump unit, Mode will be circulated according to sequence of AUTO, COOL, DRY, FAN, HEAT; The HEAT mode signal will be ineffective for cooling only unit and mode will be circulated according to the sequence of AUTO, COOL, DRY, FAN.
f. Energy-saving mode can only be set by the energy-saving button on remote controller.
g. Sleep function can only be set by the Sleep button on remote controller.

3. Protection Function

3.1 Freeze Protection

When the unit operates at cooling mode, if freeze protection is detected, the compressor will stop operation and indoor fan will operate at set speed. When freeze protection is removed, the unit will resume previous operation after 3 minutes later.

3.2 Defrosting

When the unit starts defrosting, “H1” is displayed and LED lamp for heating will be off for 3s and blinks once.

3.3Detection of temperature sensor malfunction

a) The ambient temperature sensor is open or short circuit: dual-8 displays F1, the cooling indicator lamp pauses 3s and blinks 1 time; it is on 0.5s and off 0.5s during blinking.
b) The tube temperature sensor is open or short circuit: dual-8 displays F2, the cooling indicator lamp pauses 3s and blinks 2 times; it is on 0.5s and off 0.5s during blinking.
c) If malfunctions happened together, the malfunction protection code will be circularly displayed by rotary method.
d) If there is malfunction for temperature sensor, when the unit is on, the compressor or electric heating pipe will stop operation, the fan will stop when the compressor or electric pipe reaches the temperature point.

7.Installation Instructions

Installation Precaution

Incorrect installation of the unit may lead to death, personal injury, or property damage. Only trained, qualified installers and service personnel are allowed to install, start-up, and service this equipment. Casualty, injury or damage due to incorrect installation or installation by unqualified personel will not be assumed by us.

Location

Install the unit where:

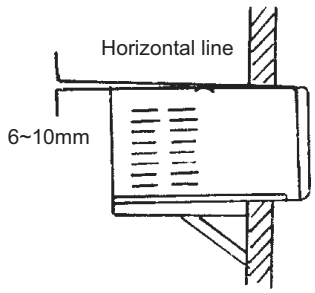
- The condensate can be easily drained out.
- It is with a minimum distance of 1m away from TV set or any other electric appliance.
- There is no leakage of inflammable gas.
- There is no other heat source or direct sunlight.
- It is out of reach of children.
- Do not install the unit in a laundry, or a bathroom or around a swimming pool, etc.
- Consult your seller before installation when the unit is to be installed in an area where salt-laden air prevails(close to coastal areas, etc), the air contains sulphurous gas (in hot spring zones), or there are other special conditions.
- For window type air conditioner with a remote controller, contact your seller when it is to be installed in a place where there is strong electromagnetic interference.

How to Install

- Choose a location where there is not any obstacle surrounding the unit.
- Prepare the installation hole a little bigger than the size of the unit.
- Choose the installation space according to the diagrams in Part 3 Construction Views.

Installation Procedure:

1) Remove the sticker from the front panel.
2) Put the unit into the installation hole.
   - When installing, make sure the unit is slanted downward to the back to minimize the nosie and vibration of operation. (Slant by 6-10mm.)
     (See the right figure)
   - Make sure the installation place is strong enough to minimize the noise and vibration of operation.
3) Fill the gaps in the cabinet with sponge or foam.



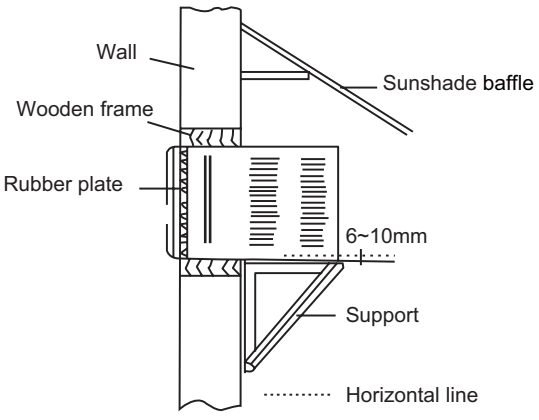
Installation of Accessories:

- To install iron support

Make sure the installation hole is strong enough to support the air conditioner. If not, install an iron support to hold the unit.The iron support should be fixed on the outside of the building See the (right figure)

- To install sunshade baffle

To avoid dropping anything onto the unit or exposing the unit to direct sunlight, contact your seller to install a sunshade baffle for the unit. When installing, make sure the air inlet at the side grille will not be blocked.

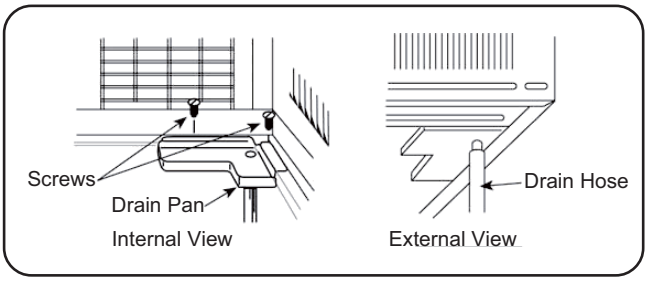


Drain Water

To maximize cooling efficiency, the air conditioner is designed to spray condensate on to the condenser coil.

For cooling only unit: Should the spraying sound annoy you, please adopt the method of outside drain with the following steps, which may however cause a small loss of performance.

1. Slide out the unit from the cabinet.
2. Remove the rubber plug from the body base plate.
3. Install the drain pan to the corner of the cabinet with 2 screws.
4. Connect the drain hose to the outlet on the bottom of the drain pan.
5. Slide the unit into its original place in the cabinet.



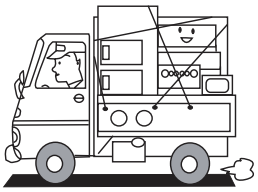
Note:

- Drain pan and drain hose must be installed before operation.
- Drain hose or tubing can be purchased locally to satisfy your particular needs.

Notes for Installation

Relocation

Contact your seller when the unit is to be relocated. Relocation of the unit shall be performed under the guidance or with the assistance of a trained, qualified technician. Charges concerning relocation of the unit shall be borne by the user.

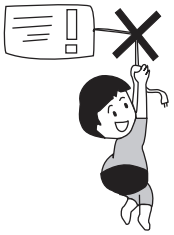


Noise

- Install in a location firm enough to minimize the noise and vibration of operation.
- Do not put anything in front of the outlet of the unit to avoid increasing noise.
- Make sure the noise and the hot air discharged will not disturb your neighbors.
- Should there be any abnormal sound during operation, contact your seller instantly please adopt a safety support.
- The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

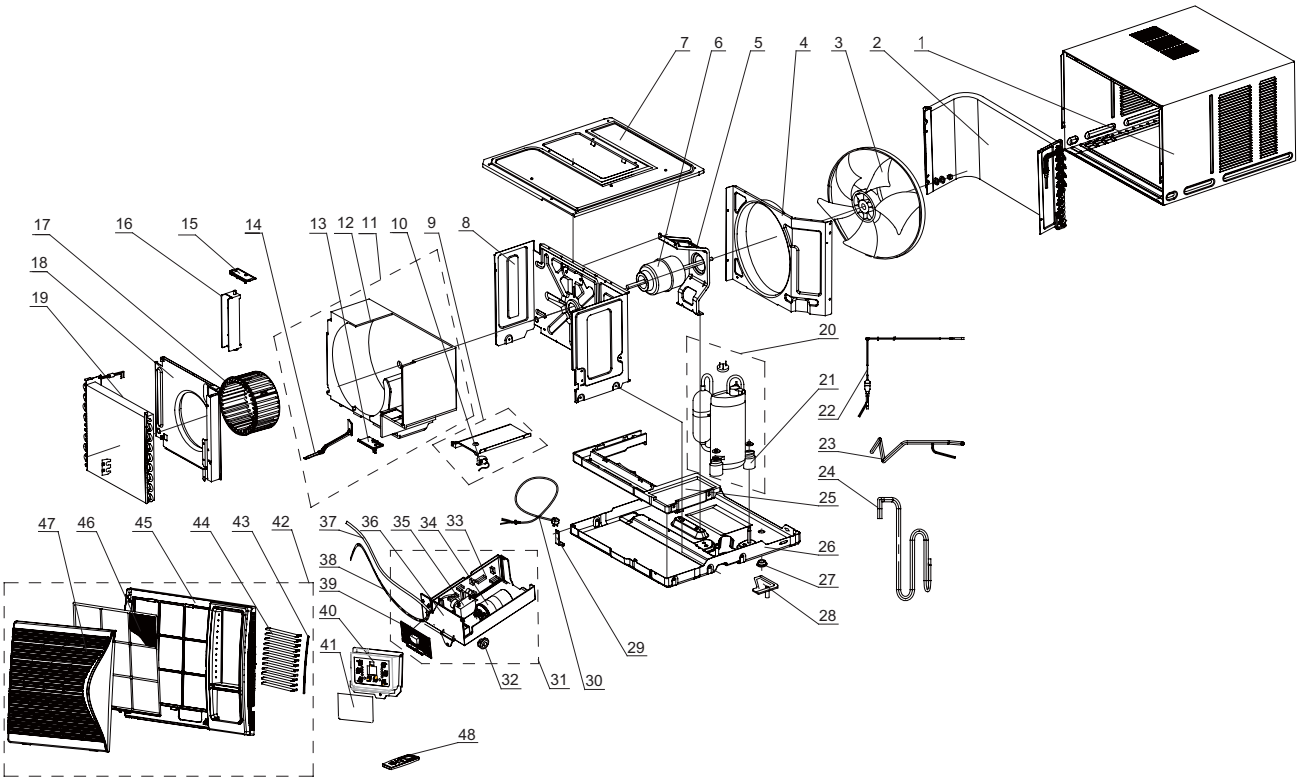
Electrical Wiring

- Make sure the unit is reliably grounded.
- Adopt an exclusive circuit for the unit. Never apply removable socket, or the poor contact between them may lead to overheating or fire.
- Never pull the power cord with excessive force.
- In a fixed circuit, make sure there is electricity leakage protection switch with leakage current less than 30mA.
- Connection between air conditioner and its power cord, as well as between individual elements should be in accordance with the wiring diagram on the unit.
- Make sure the air conditioner is installed in accordance with national wiring regulation.
- Adopt an all-pole disconnection switch with a minimum contact separation of 3mm in all poles in a fixed wiring
- Make sure an air switch (thermal-magnetic breaker) is installed in the circuit.
- Damaged power cord should be replaced by the manufacturer, an authorized dealer or a qualified person for fear of hazards.
- All electrical work should be performed in accordance with local wiring regulations.



8.Exploded Views and Parts List

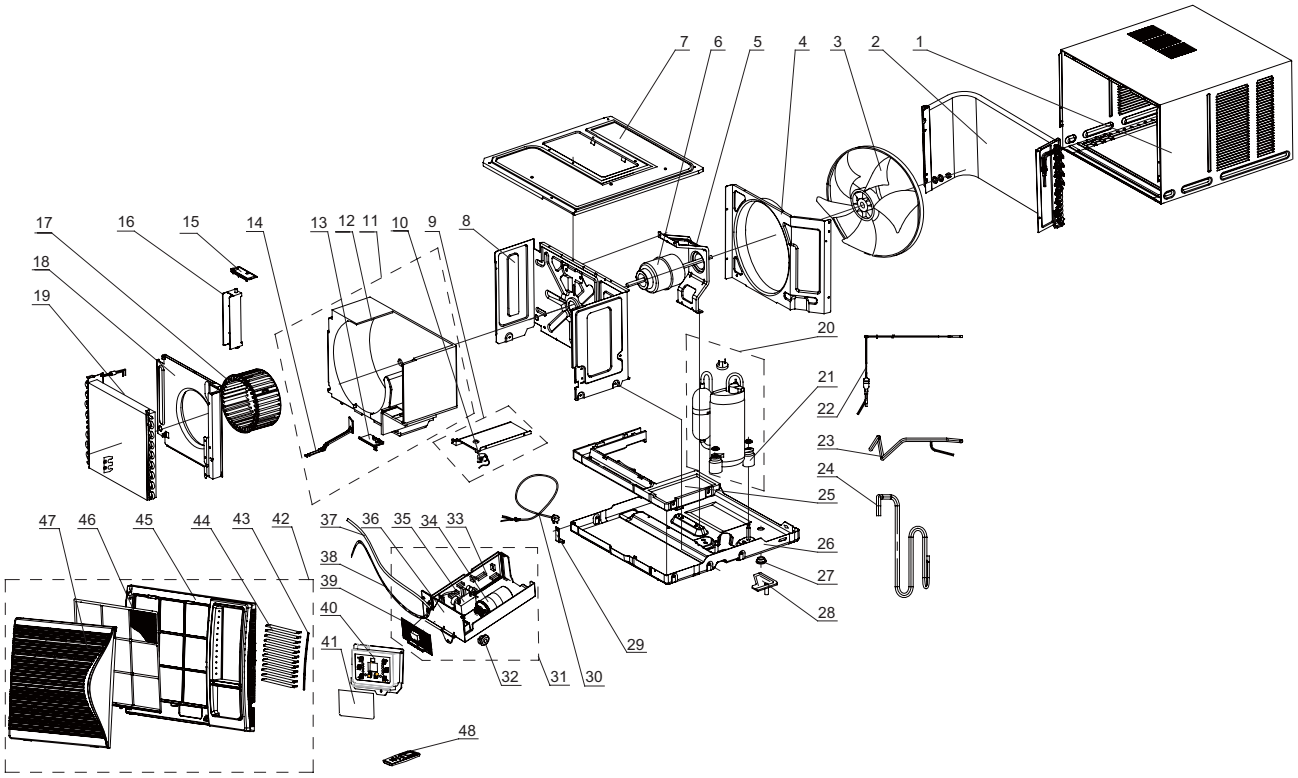
Model:GJC07AF-K3RNB9D



No.	Description	Part Code	Qty
		GJC07AF-K3RNB9D	
	Product Code	CC052015100	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101114	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231152	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001197	1
20	Compressor and fittings	00101292	1
21	Compressor Gasket	76711004	3
22	Capillary Sub-Assy	03001829	1
23	Inhalation Tube Sub-Assy	03631962	1
24	Discharge Tube	03611769	1
25	Water Tray	12411006	1
26	Chassis Sub-assy	0120110503P	1
27	Drainage hole cap	76711012	1
28	Drainage Box	20181125	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101424	1
32	Sleeving	4203240201	1
33	Main Board	30132090	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Display Board	30562019	1
40	LCD board (Remote Control)	20120036	1
41	Membrane	22431132	1
42	Front Panel Assy	20001442	1
43	Guide blade lever	10581305	1
44	Air Louver	10511033	12
45	Front Case	20001419	1
46	Filter Sub-Assy	11121304	1
47	Front Panel 1	20001435	1
48	Remote Controller	30511030	1

The data above are subject to change without notice.

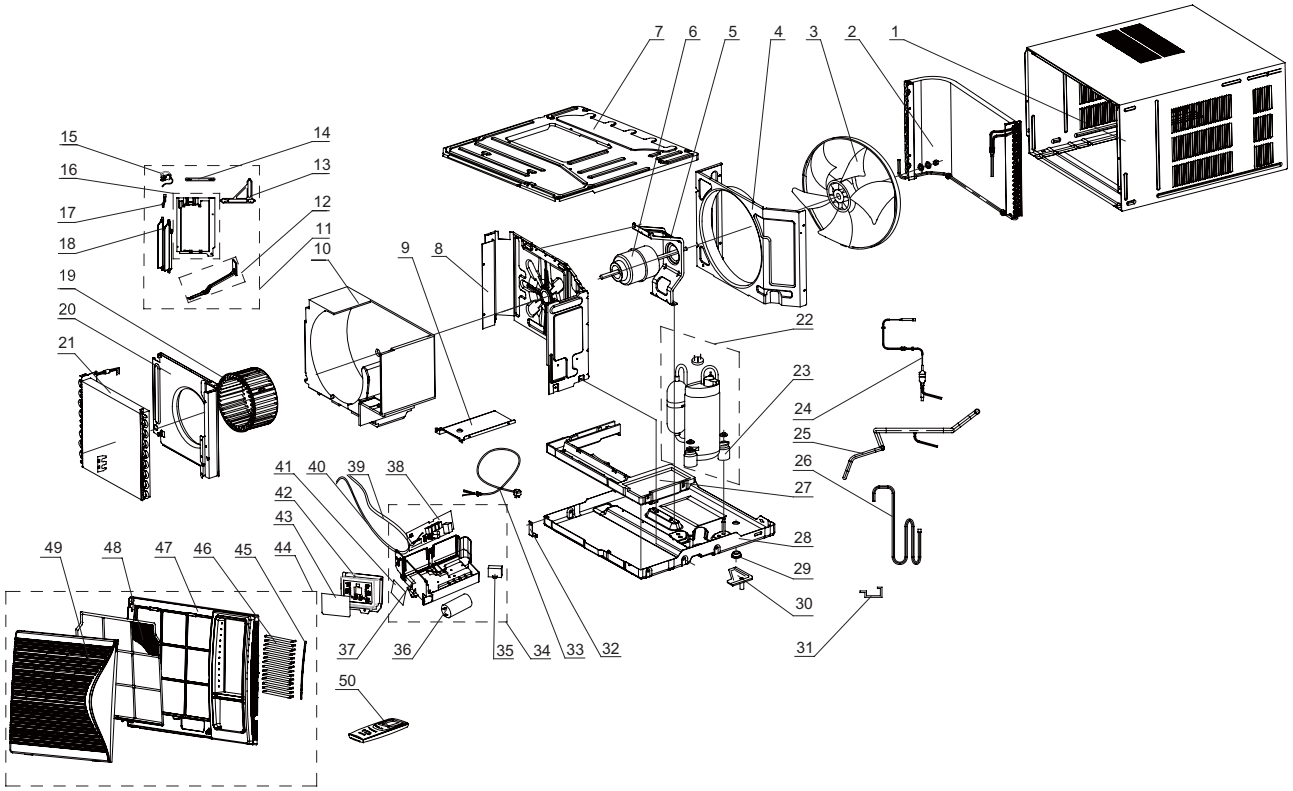
Model:GJC09AF-K3RNB9D



No.	Description	Part Code	Qty
		GJC09AF-K3RNB9D	
	Product Code	CC052015200	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101114	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231152	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001197	1
20	Compressor and fittings	00101293	1
21	Compressor Gasket	76710287	3
22	Capillary Sub-Assy	03001830	1
23	Inhalation Tube Sub-Assy	03631962	1
24	Discharge Tube	03611769	1
25	Water Tray	12411006	1
26	Chassis Sub-assy	0120110503P	1
27	Drainage hole cap	76711012	1
28	Drainage Box	20181125	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101424	1
32	Sleeving	4203240201	1
33	Main Board	30132090	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Display Board	30562019	1
40	LCD board (Remote Control)	20120036	1
41	Membrane	22431132	1
42	Front Panel Assy	20001442	1
43	Guide blade lever	10581305	1
44	Air Louver	10511033	12
45	Front Case	20001419	1
46	Filter Sub-Assy	11121304	1
47	Front Panel 1	20001435	1
48	Remote Controller	30511030	1

The data above are subject to change without notice.

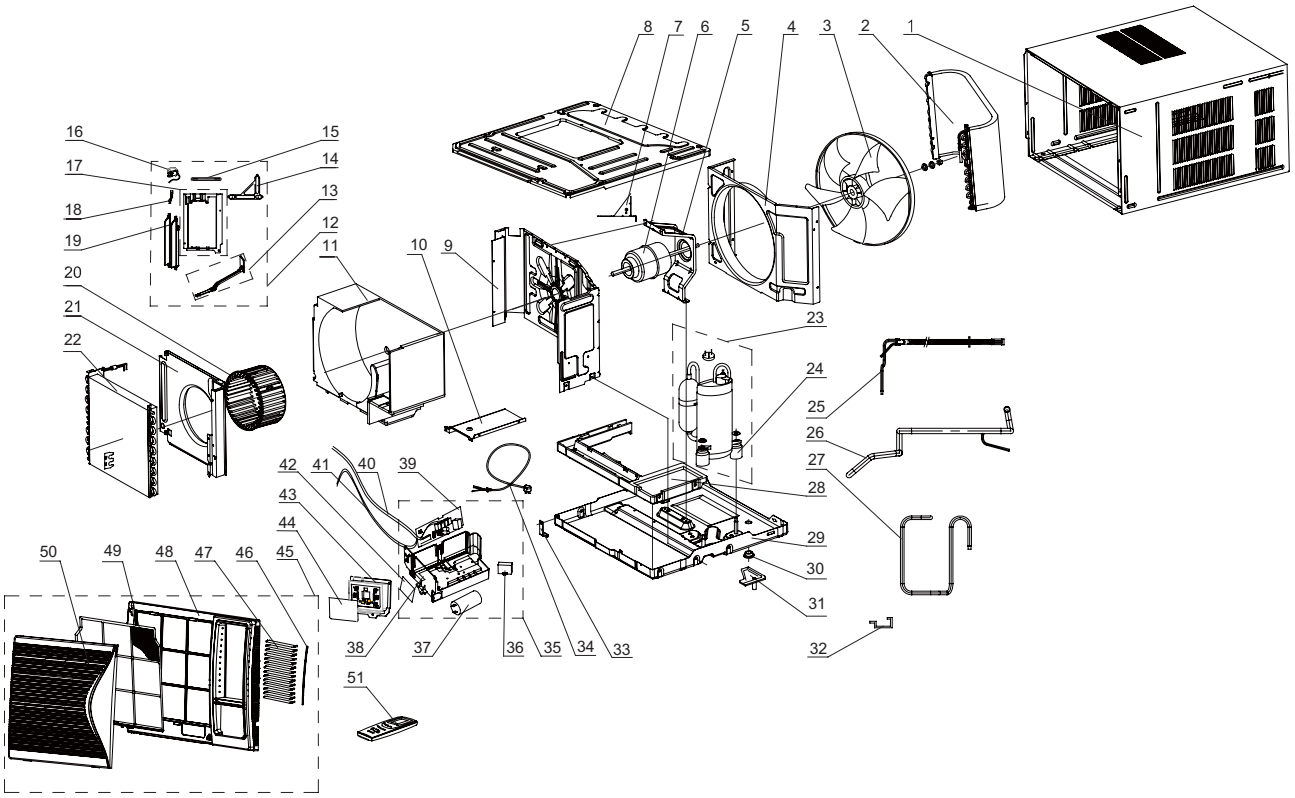
Model:GJC12AD-K3RNB9D



No.	Description	Part Code	Qty
		GJC12AD-K3RNB9D	
	Product Code	CC052015300	
1	Cabinet Assy	01431170	1
2	Condenser Assy	0110108401	1
3	Axial Flow Fan Sub-Assy	10331601	1
4	Rear Clapboard	01231502	1
5	Motor Support1	01701605	1
6	Fan Motor	150116065	1
7	Top Cover Board Sub-assy	01251503	1
8	Front Clapboard Sub-Assy	01231607	1
9	Base Plate Of Air Flue	01221602	1
10	Propeller Housing	12101602	1
11	Air Outlet Sub-Assy	2000103601	1
12	Air Door Lever	10581601	1
13	Swing lever	10581602	1
14	Swing Lever2	10581021	1
15	Step Motor	1521211601	1
16	Swing blade Support	10581603	1
17	Crank	73011001	1
18	Air Louver	10511601	2
19	Centrifugal fan Sub-Assy	10311501	1
20	Front Clapboard of Propeller housing	01231604	1
21	Evaporator Assy	01001292	1
22	Compressor and fittings	00101302	1
23	Compressor Gasket	76710247	3
24	Capillary Sub-Assy	03001969	1
25	Inhalation Tube Sub-Assy	03631966	1
26	Discharge Tube	03641003	1
27	Water Tray	12411007	1
28	Chassis Sub-assy	01201220P	1
29	Drainage hole cap	76711012	1
30	Drainage Box	20181801	1
31	Cabinet Fastener	26251601	1
32	Chassis clamp	01211601	1
33	Power Cord	40020491	1
34	Electric Box Assy	20101431	1
35	Capacitor CBB61	33010037	1
36	Capacitor CBB65	33010743	1
37	Electric box	20111031	1
38	Main Board	30132090	1
39	Ambient Temperature Sensor	390000451	1
40	Temperature Sensor	390000596	1
41	Display Board	30562019	1
42	LCD board(remote control)	20120037	1
43	Membrane	22431132	1
44	Front Panel Assy	20001440	1
45	Guide blade lever	10581604	1
46	Guide blade	105116021	14
47	Front Case	20001601	1
48	Filter Sub-Assy	11121601	1
49	Front Panel 1	20001433	1
50	Remote Controller	30511030	1

The data above are subject to change without notice.

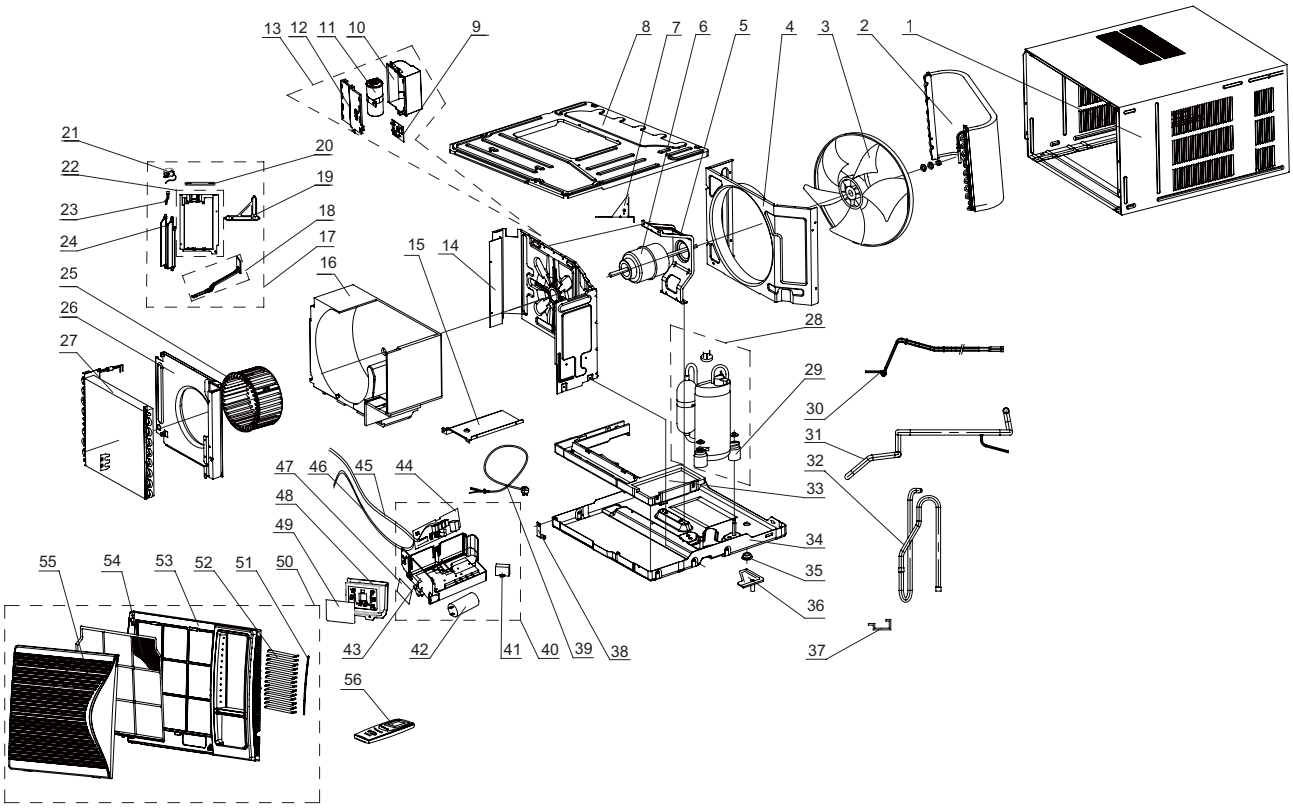
Model:GJC18AC-K3RNB9D



No.	Description	Part Code	Qty
		GJC18AC-K3RNB9D	
	Product Code	CC052015400	
1	Cabinet Assy	014316182	1
2	Condenser Assy	01101340	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231099	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Front Clapboard Sub-Assy	01231804	1
10	Base Plate Of Air Flue	01221602	1
11	Propeller Housing	12101602	1
12	Air Outlet Sub-Assy	2000103601	1
13	Air Door Lever	10581601	1
14	Swing lever	10581602	1
15	Swing Lever2	10581021	1
16	Step Motor	1521211601	1
17	Swing blade Support	10581603	1
18	Crank	73011001	1
19	Air Louver	10511601	2
20	Centrifugal Fan Sub-Assy	10311501	1
21	Front Clapboard of Propeller housing	01231604	1
22	Evaporator Assy	01001217	1
23	Compressor and fittings	00101300	1
24	Compressor Gasket	99071370	3
25	Capillary Sub-Assy	03001357	1
26	Inhalation Tube Sub-Assy	03631959	1
27	Discharge Tube Sub-assy	03631969	1
28	Water Tray	12411007	1
29	Chassis Sub-assy	01201107P	1
30	Drainage hole cap	76711012	1
31	Drainage Box	20181801	1
32	Cabinet Fastener	26251601	1
33	Chassis clamp	01211601	1
34	Power Cord	400204911	1
35	Electric Box Assy	20101427	1
36	Capacitor CBB61	33010009	1
37	Capacitor CBB65	33000012	1
38	Electric box	20111031	1
39	Main Board	30132090	1
40	Ambient Temperature Sensor	390000451	1
41	Temperature Sensor	390000596	1
42	Display Board	30562019	1
43	LCD board(remote control)	20120037	1
44	Membrane	22431132	1
45	Front Panel Assy	20001440	1
46	Guide blade lever	10581604	1
47	Guide blade	105116021	14
48	Front Case	20001601	1
49	Filter Sub-Assy	11121601	1
50	Front Panel 1	20001433	1
51	Remote Controller	30511030	1

The data above are subject to change without notice.

Model:GJC21AC-K3RNB9D

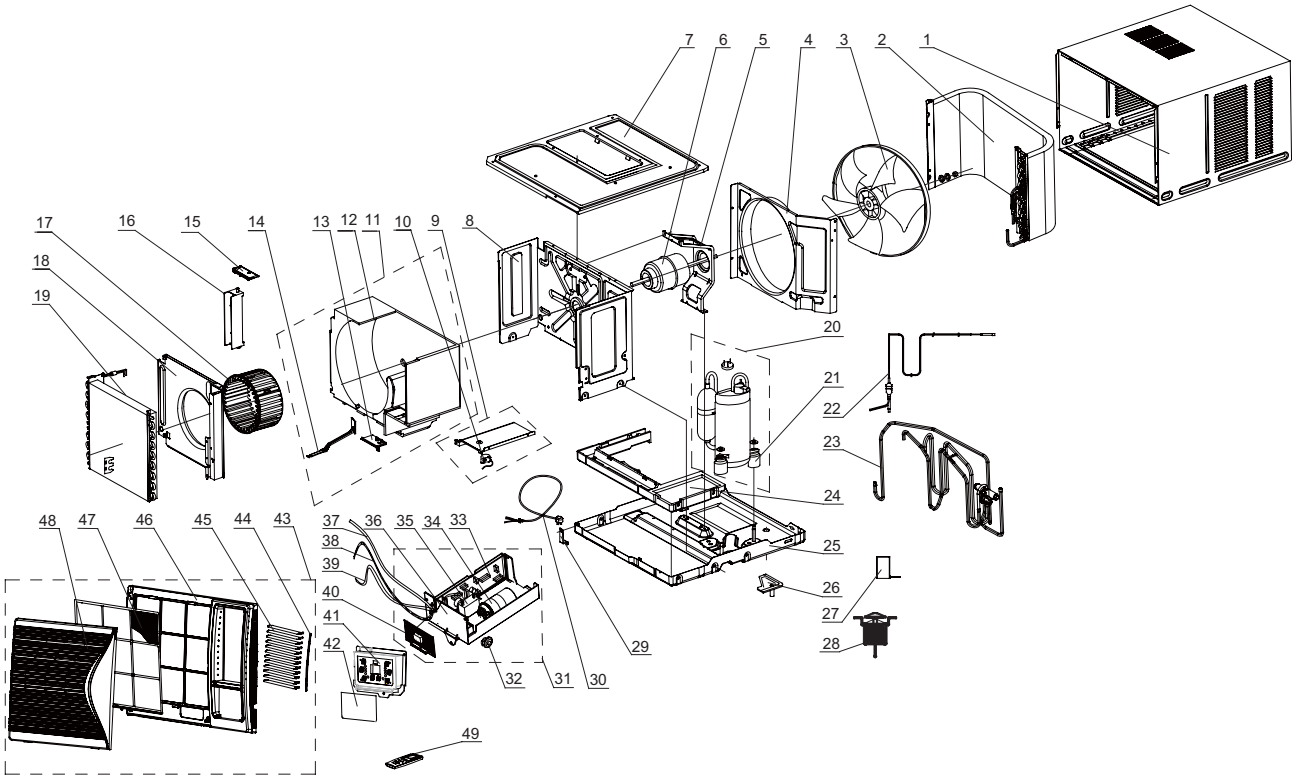


No.	Description	Part Code	Qty
		GJC21AC-K3RNB9D	
	Product Code	CC052015500	
1	Cabinet Assy	01431118	1
2	Condenser Assy	01101109	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231099	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Soft Start Device	30116042	1
10	Electric Box	20101236	1
11	Capacitor CBB65	33010603	1
12	Electric Box Cover	20101237	1
13	Electric Box Sub-Assy	20101238	1
14	Front Clapboard Sub-Assy	012318041	1
15	Base Plate Of Air Flue	01221602	1
16	Propeller Housing	12101602	1
17	Air Outlet Sub-Assy	2000103601	1
18	Air Door Lever	10581601	1
19	Swing lever	10581602	1
20	Swing Lever2	10581021	1
21	Step Motor	1521211601	1
22	Swing blade Support	10581603	1
23	Crank	73011001	1
24	Air Louver	10511601	2
25	Centrifugal Fan Sub-Assy	10311501	1
26	Front Clapboard of Propeller housing	01231604	1
27	Evaporator Assy	01001292	1
28	Compressor and fittings	00101299	1
29	Compressor Gasket	99071370	3
30	Capillary Sub-Assy	03001967	1
31	Inhalation Tube Sub-Assy	03631959	1
32	Discharge Tube Sub-Assy	03631967	1
33	Water Tray	12411007	1
34	Chassis Sub-assy	01201107P	1
35	Drainage hole cap	76711012	1
36	Drainage Box	20181801	1
37	Cabinet Fastener	26251601	1
38	Chassis clamp	01211601	1
39	Power Cord	400204911	1
40	Electric Box Assy	20101418	1

41	Capacitor CBB61	33010037	1
42	Capacitor CBB65	33000001	1
43	Electric box	20111031	1
44	Main Board	30132093	1
45	Ambient Temperature Sensor	390000451	1
46	Temperature Sensor	390000596	1
47	Display Board	30562019	1
48	LCD board(remote control)	20120037	1
49	Membrane	22431132	1
50	Front Panel Assy	20001440	1
51	Guide blade lever	10581604	1
52	Guide blade	105116021	14
53	Front Case	20001601	1
54	Filter Sub-Assy	11121601	1
55	Front Panel 1	20001433	1
56	Remote Controller	30511030	1

The data above are subject to change without notice.

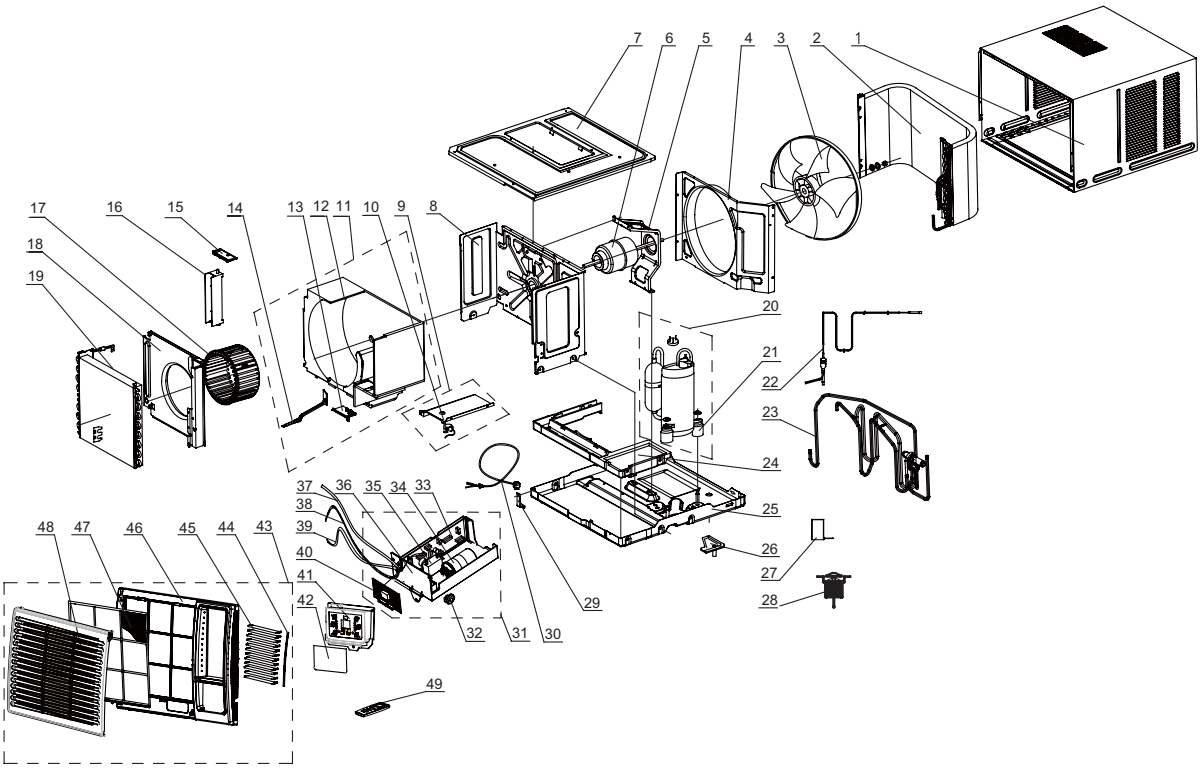
Model:GJH07AF-K3RNB9D



No.	Description	Part Code	Qty
		GJH07AF-K3RNB9D	
	Product Code	CC052015600	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101110	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231095	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001095	1
20	Compressor and fittings	00101292	1
21	Compressor Gasket	76711004	3
22	Capillary Sub-Assy	03001777	1
23	4-Way Valve Assy	03021225	1
24	Water Tray	12411006	1
25	Chassis Sub-assy	0120110504P	1
26	Drainage Box	20181125	1
27	Magnet Coil	430004017	1
28	Drainage Valve	07100164	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101417	1
32	Sleeving	4203240201	1
33	Main Board	30132091	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Temperature Sensor	390000372	1
40	Display Board	30562019	1
41	LCD board (Remote Control)	20120036	1
42	Membrane	2243113201	1
43	Front Panel Assy	20001442	1
44	Guide blade lever	10581305	1
45	Air Louver	10511033	12
46	Front Case	20001419	1
47	Filter Sub-Assy	11121304	1
48	Front Panel 1	20001435	1
49	Remote Controller	30511030	1

The data above are subject to change without notice.

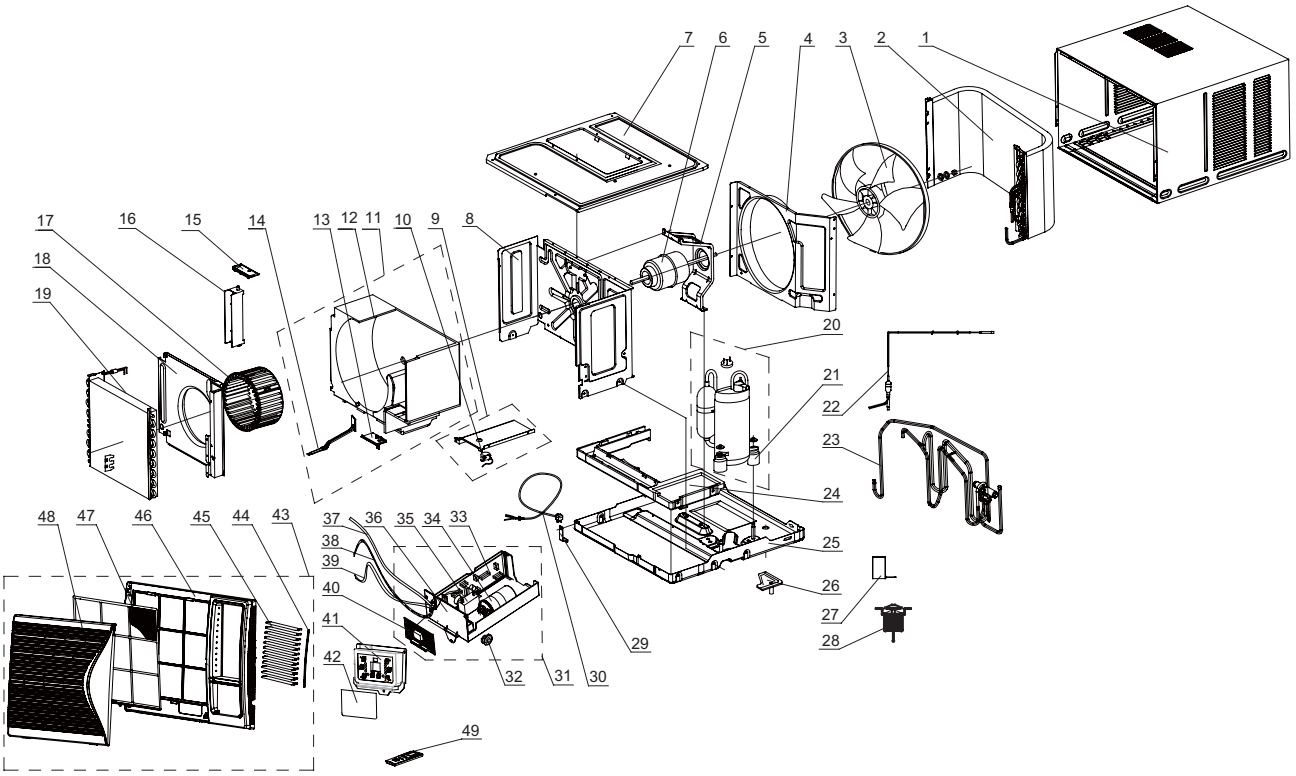
Model:GJH07AF-K3RND2A



No.	Description	Part Code	Qty
		GJH07AF-K3RND2A	
	Product Code	CC052022700	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101110	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231095	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001095	1
20	Compressor and fittings	00101292	1
21	Compressor Gasket	76711004	3
22	Capillary Sub-Assy	03001777	1
23	4-Way Valve Assy	03021225	1
24	Water Tray	12411006	1
25	Chassis Sub-assy	0120110504P	1
26	Drainage Box	20181125	1
27	Magnet Coil	430004017	1
28	Drainage Valve	07100164	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101417	1
32	Sleeving	4203240201	1
33	Main Board	30132091	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Temperature Sensor	390000372	1
40	Display Board	30562019	1
41	LCD board (Remote Control)	20120036	1
42	Membrane	2243113201	1
43	Front Panel Assy	20001540	1
44	Guide blade lever	10581305	1
45	Air Louver	10511033	12
46	Front Case	20001419	1
47	Filter Sub-Assy	11121304	1
48	Air Intake Panel	20001496	1
49	Remote Controller	30511030	1

The data above are subject to change without notice.

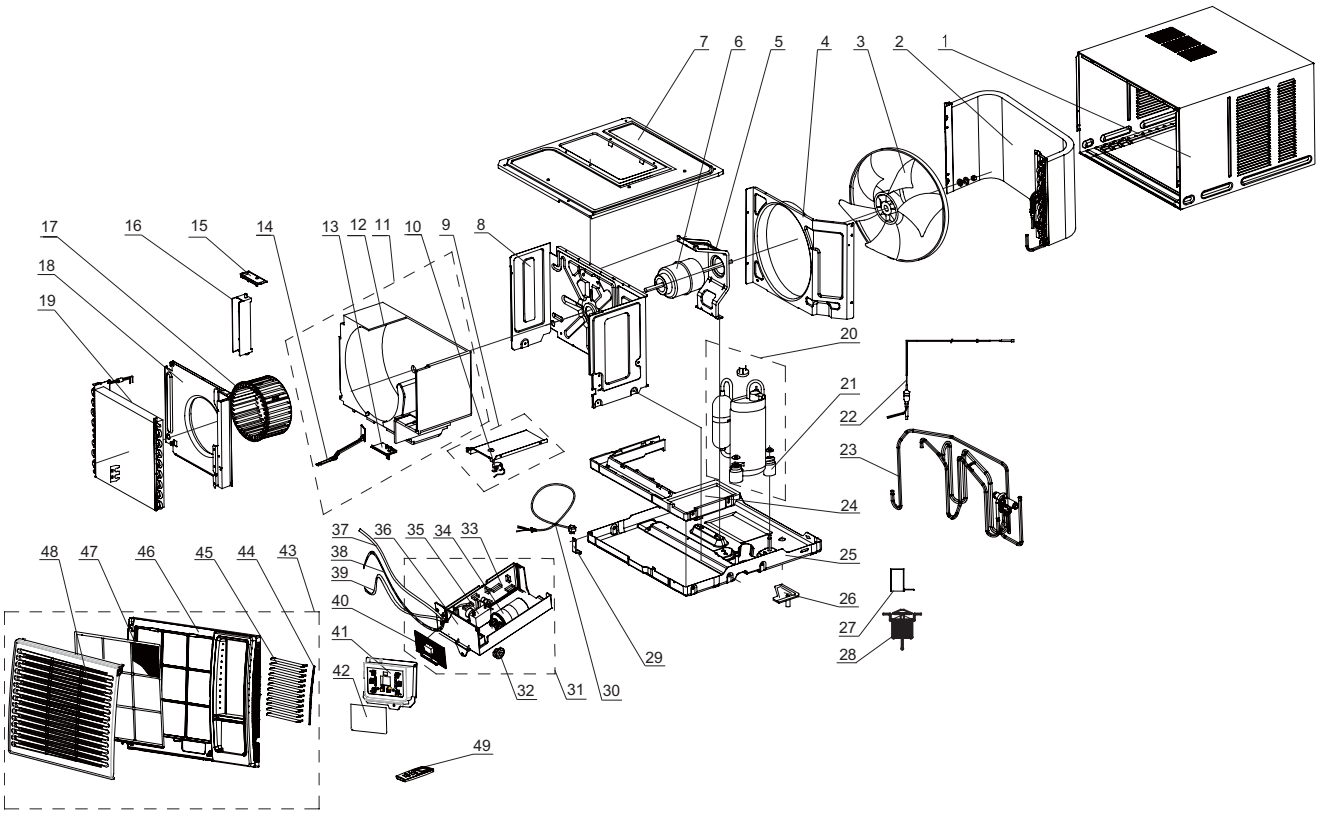
Model:GJH09AF-K3RNB9D



No.	Description	Part Code	Qty
		GJH09AF-K3RNB9D	
	Product Code	CC052015700	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101110	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231095	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001095	1
20	Compressor and fittings	00101293	1
21	Compressor Gasket	76710287	3
22	Capillary Sub-Assy	03001966	1
23	4-Way Valve Assy	03021225	1
24	Water Tray	12411006	1
25	Chassis Sub-assy	0120110504P	1
26	Drainage Box	20181125	1
27	Magnet Coil	430004017	1
28	Drainage Valve	07100164	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101417	1
32	Sleeving	4203240201	1
33	Main Board	30132091	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Temperature Sensor	390000372	1
40	Display Board	30562019	1
41	LCD board (Remote Control)	20120036	1
42	Membrane	2243113201	1
43	Front Panel Assy	20001442	1
44	Guide blade lever	10581305	1
45	Air Louver	10511033	12
46	Front Case	20001419	1
47	Filter Sub-Assy	11121304	1
48	Front Panel 1	20001435	1
49	Remote Controller	30511030	1

The data above are subject to change without notice.

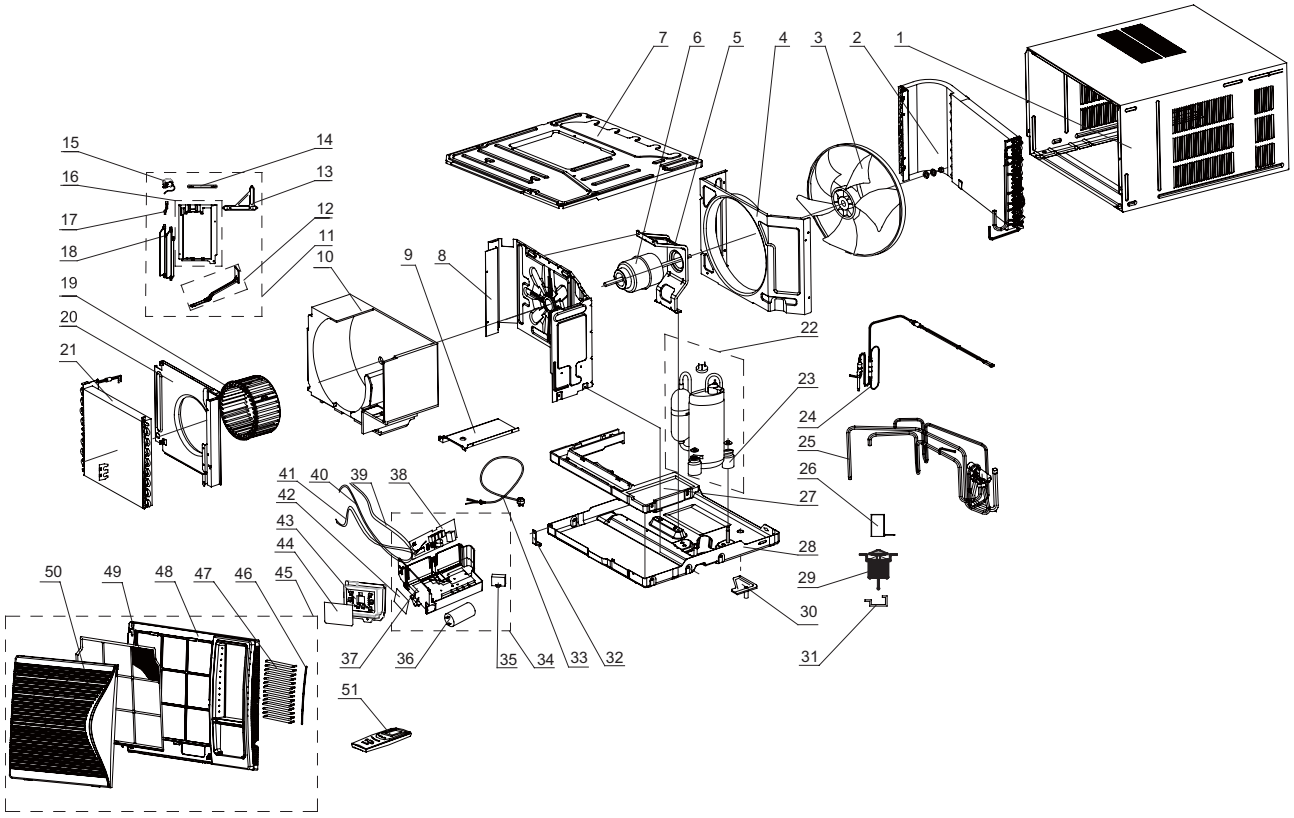
Model:GJH09AF-K3RND2A



No.	Description	Part Code	Qty
		GJH09AF-K3RND2A	
	Product Code	CC052020300	
1	Cabinet Assy	0143111601	1
2	Condenser Assy	01101110	1
3	Axial Flow Fan	10331365	1
4	Rear Clapboard	01231095	1
5	Motor Support	01701301	1
6	Fan Motor	15011307	1
7	Top Connecting Plate Assy	01381015	1
8	Front Clapboard Sub-Assy	01231316	1
9	Base Plate Of Air Flue	01221303	1
10	Step Motor	15211008	1
11	Propeller housing Assy	12101303	1
12	Propeller Housing	12101362	1
13	Base of Swing Louver	10521362	1
14	Air Door Lever	10581303	1
15	Cross Beam	24241364	1
16	Air Louver	10511127	1
17	Centrifugal fan	10311004	1
18	Front Clapboard of Propeller housing	0123131401	1
19	Evaporator Assy	01001095	1
20	Compressor and fittings	00101293	1
21	Compressor Gasket	76710287	3
22	Capillary Sub-Assy	03001966	1
23	4-Way Valve Assy	03021225	1
24	Water Tray	12411006	1
25	Chassis Sub-assy	0120110504P	1
26	Drainage Box	20181125	1
27	Magnet Coil	430004017	1
28	Drainage Valve	07100164	1
29	Chassis clamp	01211307	1
30	Power Cord	40020491	1
31	Electric Box Assy	20101417	1
32	Sleeving	4203240201	1
33	Main Board	30132091	1
34	Capacitor CBB65	33000017	1
35	Capacitor CBB61	33010010	1
36	Electric box	20111030	1
37	Ambient Temperature Sensor	390000451	1
38	Temperature Sensor	390000596	1
39	Temperature Sensor	390000372	1
40	Display Board	30562019	1
41	LCD board (Remote Control)	20120036	1
42	Membrane	2243113201	1
43	Front Panel Assy	20001540	1
44	Guide blade lever	10581305	1
45	Air Louver	10511033	12
46	Front Case	20001419	1
47	Filter Sub-Assy	11121304	1
48	Front Panel	20001496	1
49	Remote Controller	30511030	1

The data above are subject to change without notice.

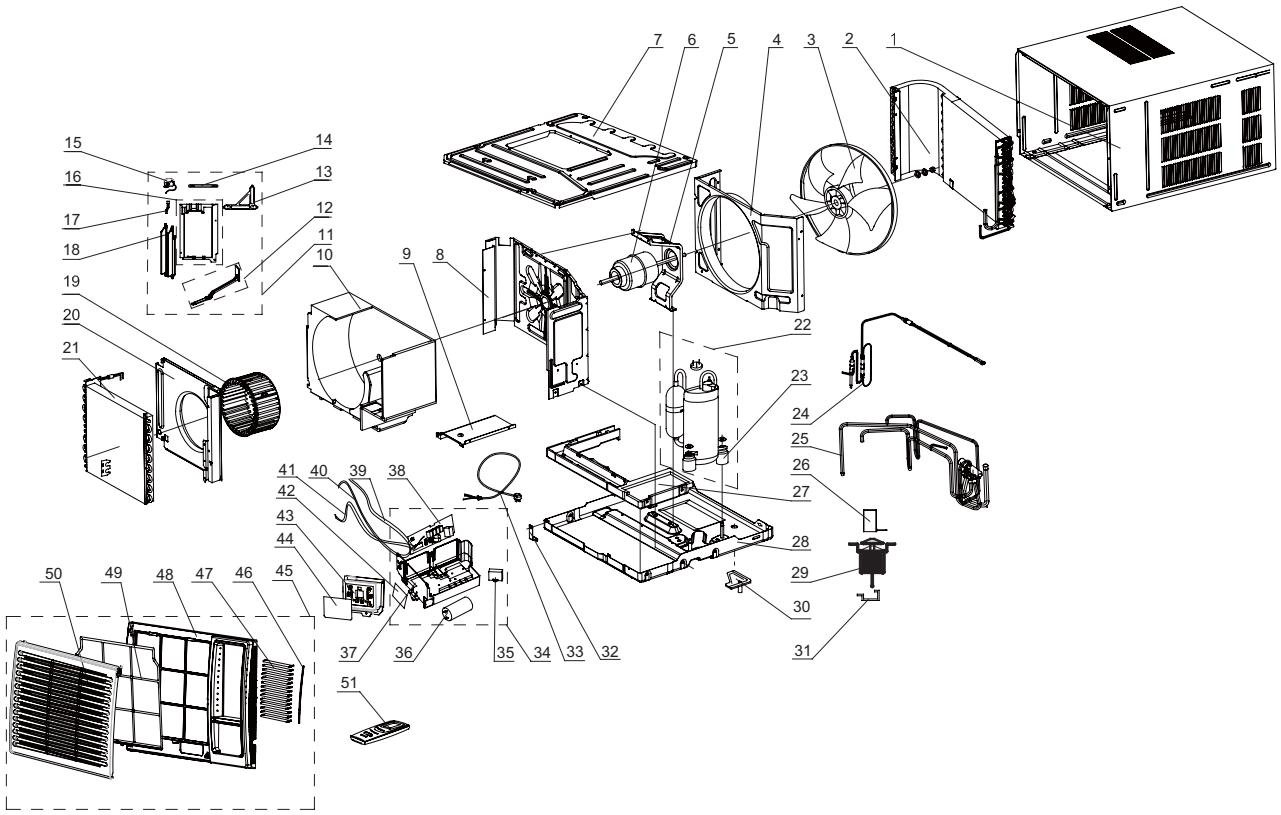
Model:GJH12AD-K3RNB9D



No.	Description	Part Code	Qty
		GJH12AD-K3RNB9D	
	Product Code	CC052015800	
1	Cabinet Assy	01431170	1
2	Condenser Assy	01101117	1
3	Axial Flow Fan Sub-Assy	10331601	1
4	Rear Clapboard	01231502	1
5	Motor Support1	01701605	1
6	Fan Motor	150116065	1
7	Top Cover Board Sub-assy	01251503	1
8	Front Clapboard Sub-Assy	01231805	1
9	Base Plate Of Air Flue	01221602	1
10	Propeller Housing	12101602	1
11	Air Outlet Sub-Assy	2000103601	1
12	Air Door Lever	10581601	1
13	Swing lever	10581602	1
14	Swing Lever2	10581021	1
15	Step Motor	1521211601	1
16	Swing blade Support	10581603	1
17	Crank	73011001	1
18	Air Louver	10511601	2
19	Centrifugal fan Sub-Assy	10311501	1
20	Front Clapboard of Propeller housing	01231604	1
21	Evaporator Assy	01001292	1
22	Compressor and fittings	00101302	1
23	Compressor Gasket	76710247	3
24	Capillary Sub-Assy	03001970	1
25	4-Way Valve Assy	03021110	1
26	Magnet Coil	430004017	1
27	Water Tray	12411007	1
28	Chassis Sub-assy	0120122001P	1
29	Drainage Valve	07100164	1
30	Drainage Box	20181801	1
31	Cabinet Fastener	26251601	1
32	Chassis clamp	01211601	1
33	Power Cord	40020491	1
34	Electric Box Assy	20101432	1
35	Capacitor CBB61	33010037	1
36	Capacitor CBB65	33010743	1
37	Electric box	20111031	1
38	Main Board	30132091	1
39	Ambient Temperature Sensor	390000451	1
40	Temperature Sensor	390000596	1
41	Temperature Sensor	390000372	1
42	Display Board	30562019	1
43	LCD board(remote control)	20120037	1
44	Membrane	2243113201	1
45	Front Panel Assy	20001440	1
46	Guide blade lever	10581604	1
47	Guide blade	105116021	14
48	Front Case	20001601	1
49	Filter Sub-Assy	11121601	1
50	Front Panel 1	20001433	1
51	Remote Controller	30511030	1

The data above are subject to change without notice.

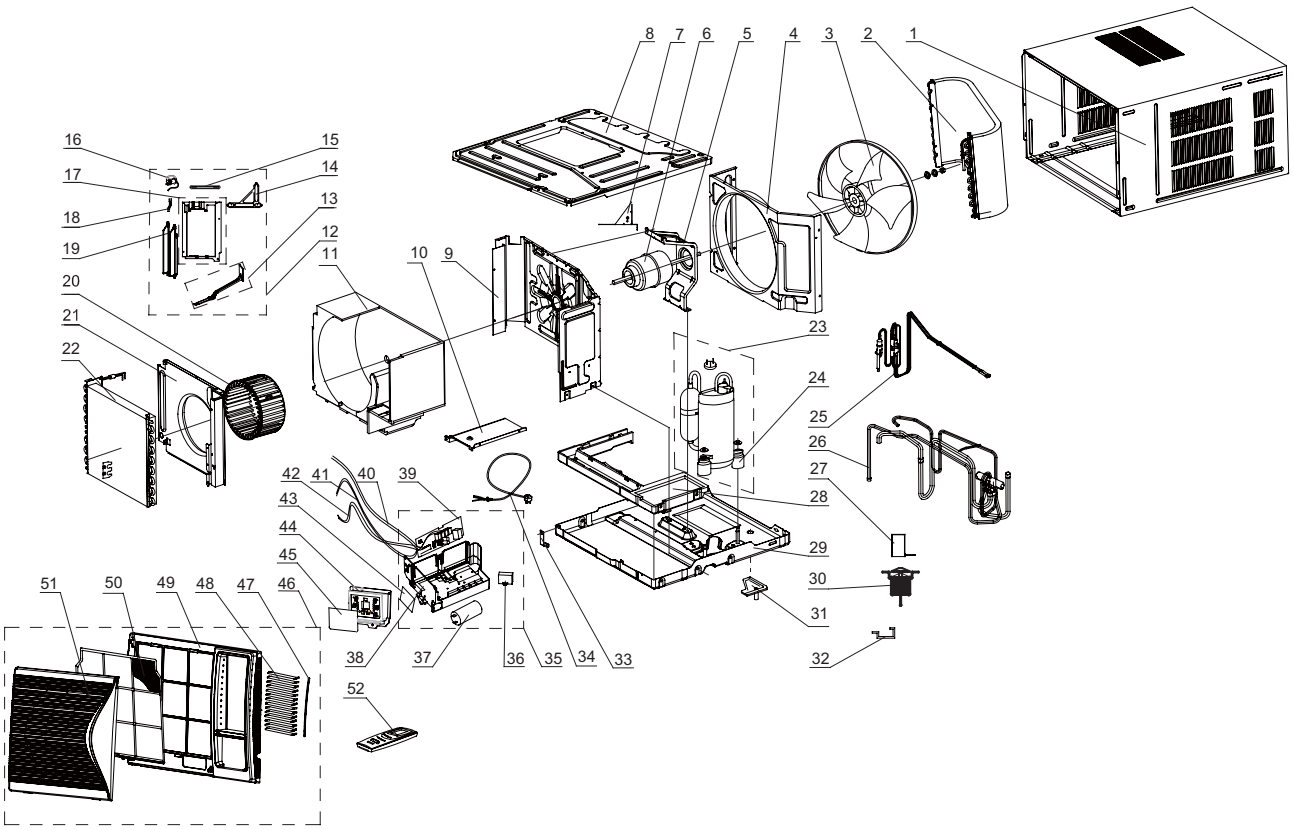
Model:GJH12AD-K3RND2A



No.	Description	Part Code	Qty
		GJH12AD-K3RND2A	
	Product Code	CC052020400	
1	Cabinet Assy	01431170	1
2	Condenser Assy	01101117	1
3	Axial Flow Fan Sub-Assy	10331601	1
4	Rear Clapboard	01231502	1
5	Motor Support1	01701605	1
6	Fan Motor	150116065	1
7	Top Cover Board Sub-assy	01251503	1
8	Front Clapboard Sub-Assy	01231805	1
9	Base Plate Of Air Flue	01221602	1
10	Propeller Housing	12101602	1
11	Air Outlet Sub-Assy	2000103601	1
12	Air Door Lever	10581601	1
13	Swing lever	10581602	1
14	Swing Lever2	10581021	1
15	Step Motor	1521211601	1
16	Swing blade Support	10581603	1
17	Crank	73011001	1
18	Air Louver	10511601	2
19	Centrifugal fan Sub-Assy	10311501	1
20	Front Clapboard of Propeller housing	01231604	1
21	Evaporator Assy	01001292	1
22	Compressor and fittings	00101302	1
23	Compressor Gasket	76710247	3
24	Capillary Sub-Assy	03001970	1
25	4-Way Valve Assy	03021110	1
26	Magnet Coil	430004017	1
27	Water Tray	12411007	1
28	Chassis Sub-assy	0120122001P	1
29	Drainage Valve	07100164	1
30	Drainage Box	20181801	1
31	Cabinet Fastener	26251601	1
32	Chassis clamp	01211601	1
33	Power Cord	40020491	1
34	Electric Box Assy	20101432	1
35	Capacitor CBB61	33010037	1
36	Capacitor CBB65	33010743	1
37	Electric box	20111031	1
38	Main Board	30132091	1
39	Ambient Temperature Sensor	390000451	1
40	Temperature Sensor	390000596	1
41	Temperature Sensor	390000372	1
42	Display Board	30562019	1
43	LCD board(remote control)	20120037	1
44	Membrane	2243113201	1
45	Front Panel Assy	20001541	1
46	Guide blade lever	10581604	1
47	Guide blade	105116021	14
48	Front Case	20001601	1
49	Filter Sub-Assy	11121601	1
50	Front Panel	20001497	1
51	Remote Controller	30511030	1

The data above are subject to change without notice.

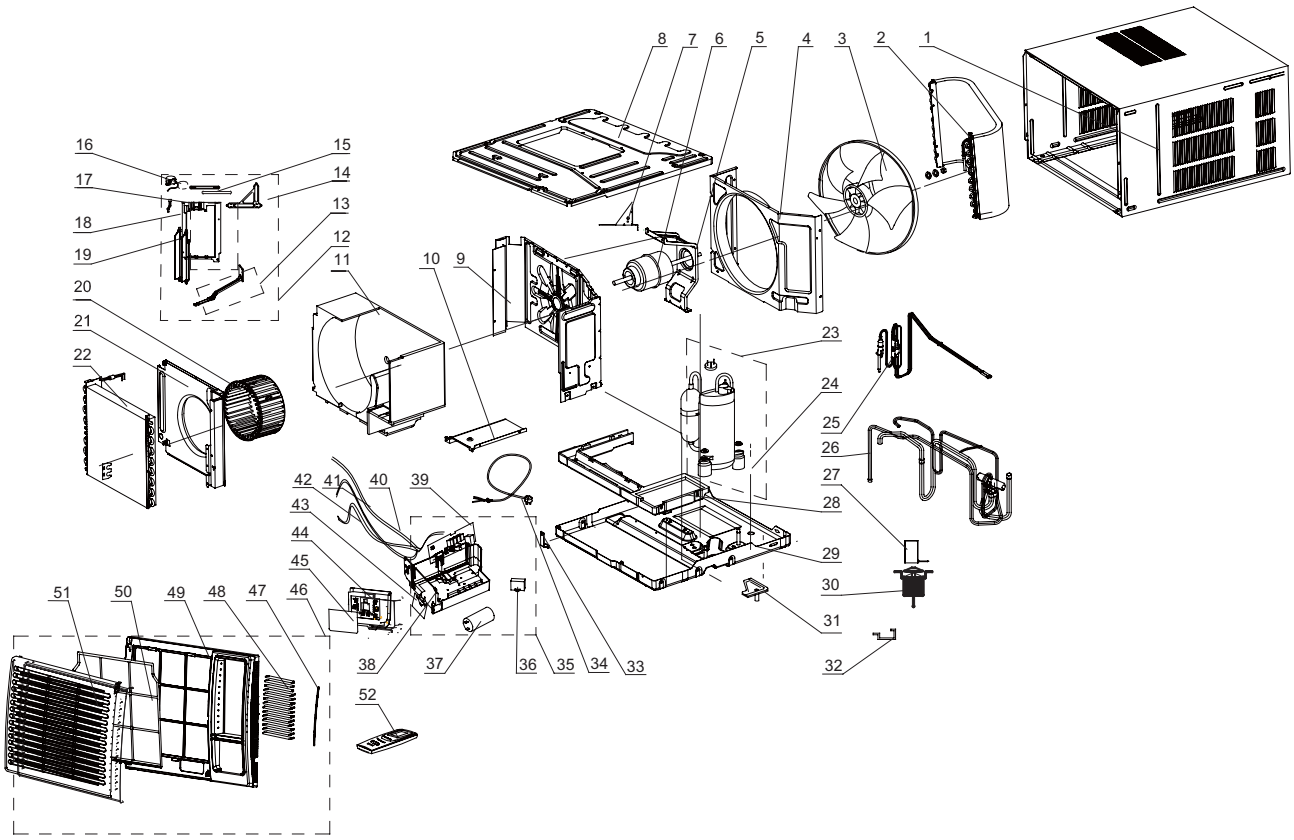
Model:GJH18AC-K3RNB9D



No.	Description	Part Code	Qty
		GJH18AC-K3RNB9D	
	Product Code	CC052015900	
1	Cabinet Assy	014316182	1
2	Condenser Assy	01101116	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231031	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Front Clapboard Sub-Assy	01231804	1
10	Base Plate Of Air Flue	01221602	1
11	Propeller Housing	12101602	1
12	Air Outlet Sub-Assy	2000103601	1
13	Air Door Lever	10581601	1
14	Swing lever	10581602	1
15	Swing Lever2	10581021	1
16	Step Motor	1521211601	1
17	Swing blade Support	10581603	1
18	Crank	73011001	1
19	Air Louver	10511601	2
20	Centrifugal Fan Sub-Assy	10311501	1
21	Front Clapboard of Propeller housing	01231604	1
22	Evaporator Assy	01001292	1
23	Compressor and fittings	00101300	1
24	Compressor Gasket	99071370	3
25	Capillary Sub-Assy	03001495	1
26	4-Way Valve Assy	03021227	1
27	Magnet Coil	430004017	1
28	Water Tray	12411007	1
29	Chassis Sub-assy	0120110701P	1
30	Drainage Valve	07100164	1
31	Drainage Box	20181801	1
32	Cabinet Fastener	26251601	1
33	Chassis clamp	01211601	1
34	Power Cord	400204911	1
35	Electric Box Assy	20101421	1
36	Capacitor CBB61	33000012	1
37	Capacitor CBB65	33010009	1
38	Electric box	20111031	1
39	Main Board	30132091	1
40	Ambient Temperature Sensor	390000451	1
41	Temperature Sensor	390000596	1
42	Temperature Sensor	390000372	1
43	Display Board	30562019	1
44	LCD board(remote control)	20120037	1
45	Membrane	2243113201	1
46	Front Panel Assy	20001440	1
47	Guide blade lever	10581604	1
48	Guide blade	105116021	14
49	Front Case	20001601	1
50	Filter Sub-Assy	11121601	1
51	Front Panel 1	20001433	1
52	Remote Controller	30511030	1

The data above are subject to change without notice.

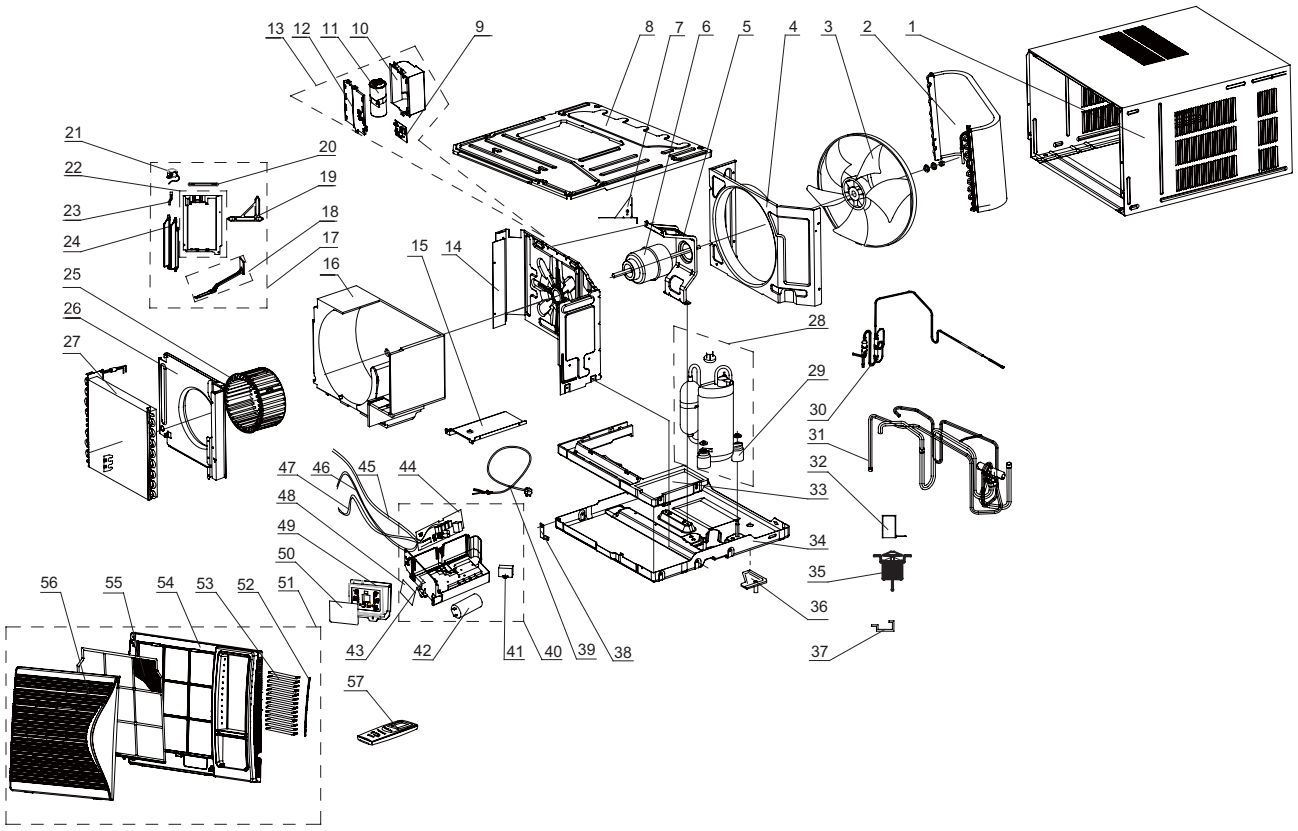
Model:GJH18AC-K3RND2A



No.	Description	Part Code	Qty
		GJH18AC-K3RND2A	
	Product Code	CC052020500	
1	Cabinet Assy	014316182	1
2	Condenser Assy	01101116	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231031	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Front Clapboard Sub-Assy	01231804	1
10	Base Plate Of Air Flue	01221602	1
11	Propeller Housing	12101602	1
12	Air Outlet Sub-Assy	2000103601	1
13	Air Door Lever	10581601	1
14	Swing lever	10581602	1
15	Swing Lever2	10581021	1
16	Step Motor	1521211601	1
17	Swing blade Support	10581603	1
18	Crank	73011001	1
19	Air Louver	10511601	2
20	Centrifugal Fan Sub-Assy	10311501	1
21	Front Clapboard of Propeller housing	01231604	1
22	Evaporator Assy	01001292	1
23	Compressor and fittings	00101300	1
24	Compressor Gasket	99071370	3
25	Capillary Sub-Assy	03001495	1
26	4-Way Valve Assy	03021227	1
27	Magnet Coil	430004017	1
28	Water Tray	12411007	1
29	Chassis Sub-assy	0120110701P	1
30	Drainage Valve	07100164	1
31	Drainage Box	20181801	1
32	Cabinet Fastener	26251601	1
33	Chassis clamp	01211601	1
34	Power Cord	400204911	1
35	Electric Box Assy	20101421	1
36	Capacitor CBB61	33000012	1
37	Capacitor CBB65	33010009	1
38	Electric box	20111031	1
39	Main Board	30132091	1
40	Ambient Temperature Sensor	390000451	1
41	Temperature Sensor	390000596	1
42	Temperature Sensor	390000372	1
43	Display Board	30562019	1
44	LCD board(remote control)	20120037	1
45	Membrane	2243113201	1
46	Front Panel Assy	20001541	1
47	Guide blade lever	10581604	1
48	Guide blade	105116021	14
49	Front Case	20001601	1
50	Filter Sub-Assy	11121601	1
51	Front Panel	20001497	1
52	Remote Controller	30511030	1

The data above are subject to change without notice.

Model:GJH21AC-K3RNB9D

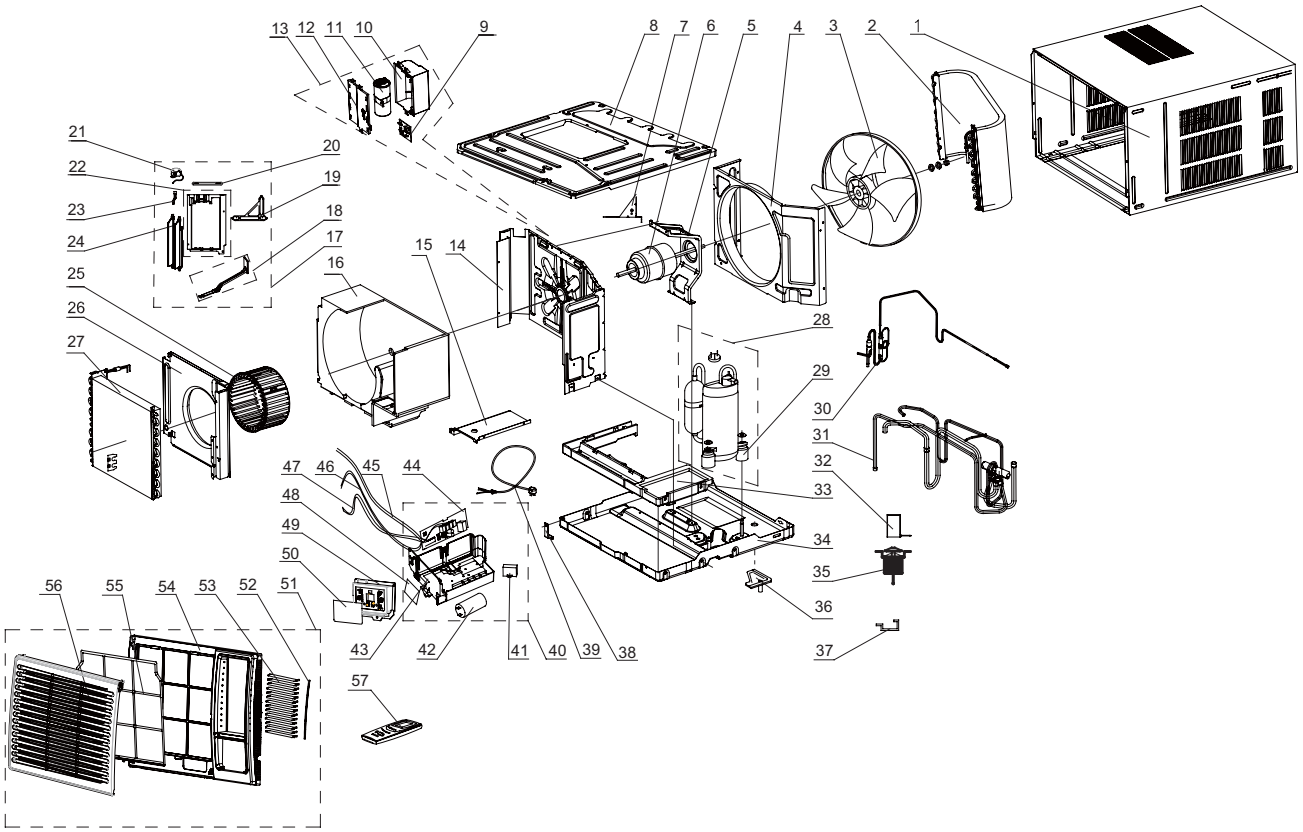


No.	Description	Part Code	Qty
		GJH21AC-K3RNB9D	
	Product Code	CC052016000	
1	Cabinet Assy	01431118	1
2	Condenser Assy	01101118	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231099	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Soft Start Device	30116042	1
10	Electric Box	20101236	1
11	Capacitor CBB65	33010603	1
12	Electric Box Cover	20101237	1
13	Electric Box Sub-Assy	20101238	1
14	Front Clapboard Sub-Assy	012318041	1
15	Base Plate Of Air Flue	01221602	1
16	Propeller Housing	12101602	1
17	Air Outlet Sub-Assy	2000103601	1
18	Air Door Lever	10581601	1
19	Swing lever	10581602	1
20	Swing Lever2	10581021	1
21	Step Motor	1521211601	1
22	Swing blade Support	10581603	1
23	Crank	73011001	1
24	Air Louver	10511601	2
25	Centrifugal Fan Sub-Assy	10311501	1
26	Front Clapboard of Propeller housing	01231604	1
27	Evaporator Assy	01001100	1
28	Compressor and fittings	00101299	1
29	Compressor Gasket	99071370	3
30	Capillary Sub-Assy	03001498	1
31	4-Way Valve Assy	03021191	1
32	Magnet Coil	430004017	1
33	Water Tray	12411007	1
34	Chassis Sub-assy	0120110701P	1
35	Drainage Valve	07100164	1
36	Drainage Box	20181801	1
37	Cabinet Fastener	26251601	1
38	Chassis clamp	01211601	1
39	Power Cord	400204911	1
40	Electric Box Assy	20101428	1

41	Capacitor CBB61	33010037	1
42	Capacitor CBB65	33000001	1
43	Electric box	20111031	1
44	Main Board	30132092	1
45	Ambient Temperature Sensor	390000451	1
46	Temperature Sensor	390000596	1
47	Temperature Sensor	390000372	1
48	Display Board	30562019	1
49	LCD board(remote control)	20120037	1
50	Membrane	2243113201	1
51	Front Panel Assy	20001440	1
52	Guide blade lever	10581604	1
53	Guide blade	105116021	14
54	Front Case	20001601	1
55	Filter Sub-Assy	11121601	1
56	Front Panel 1	20001433	1
57	Remote Controller	30511030	1

The data above are subject to change without notice.

Model:GJH21AC-K3RND2A

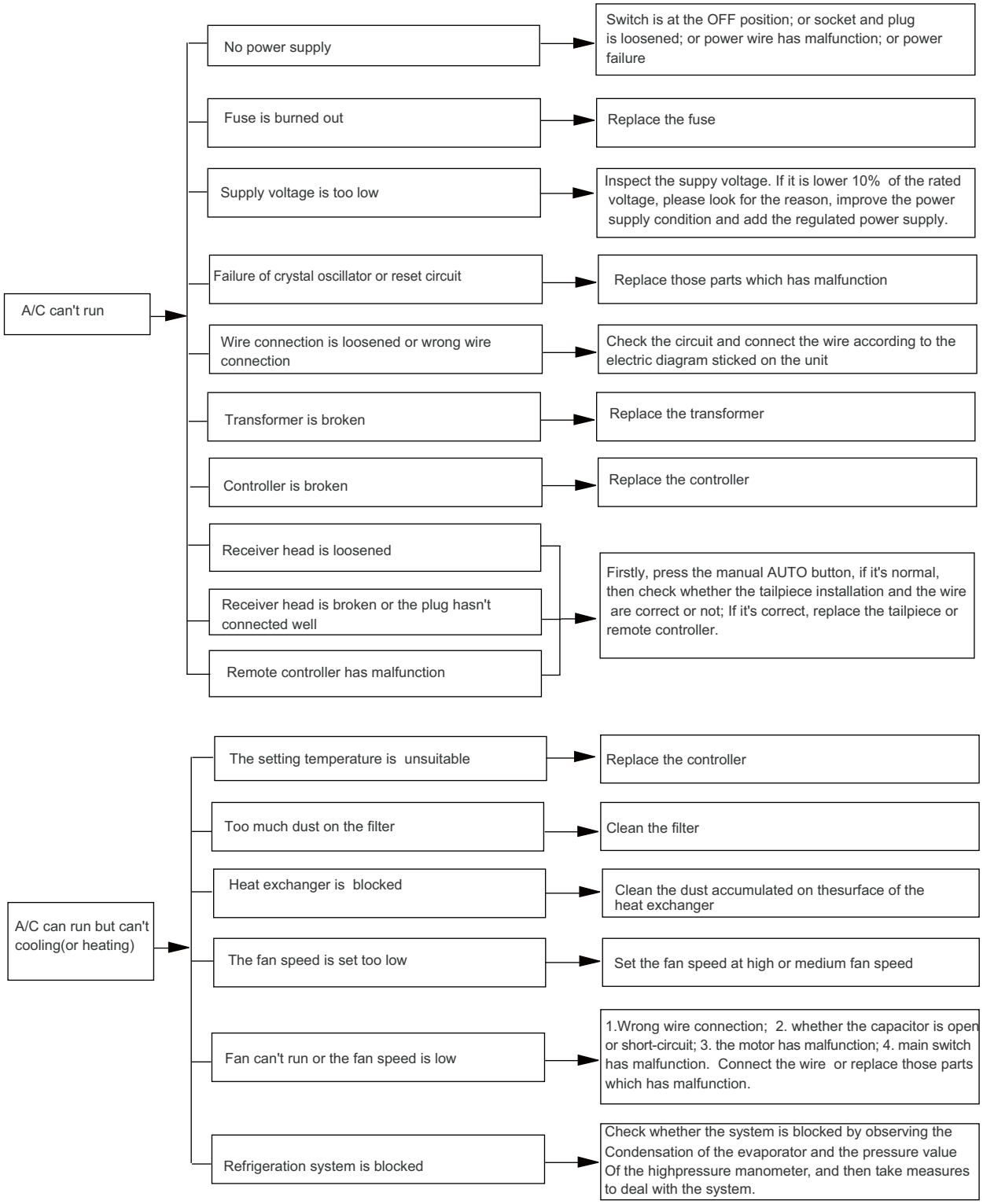


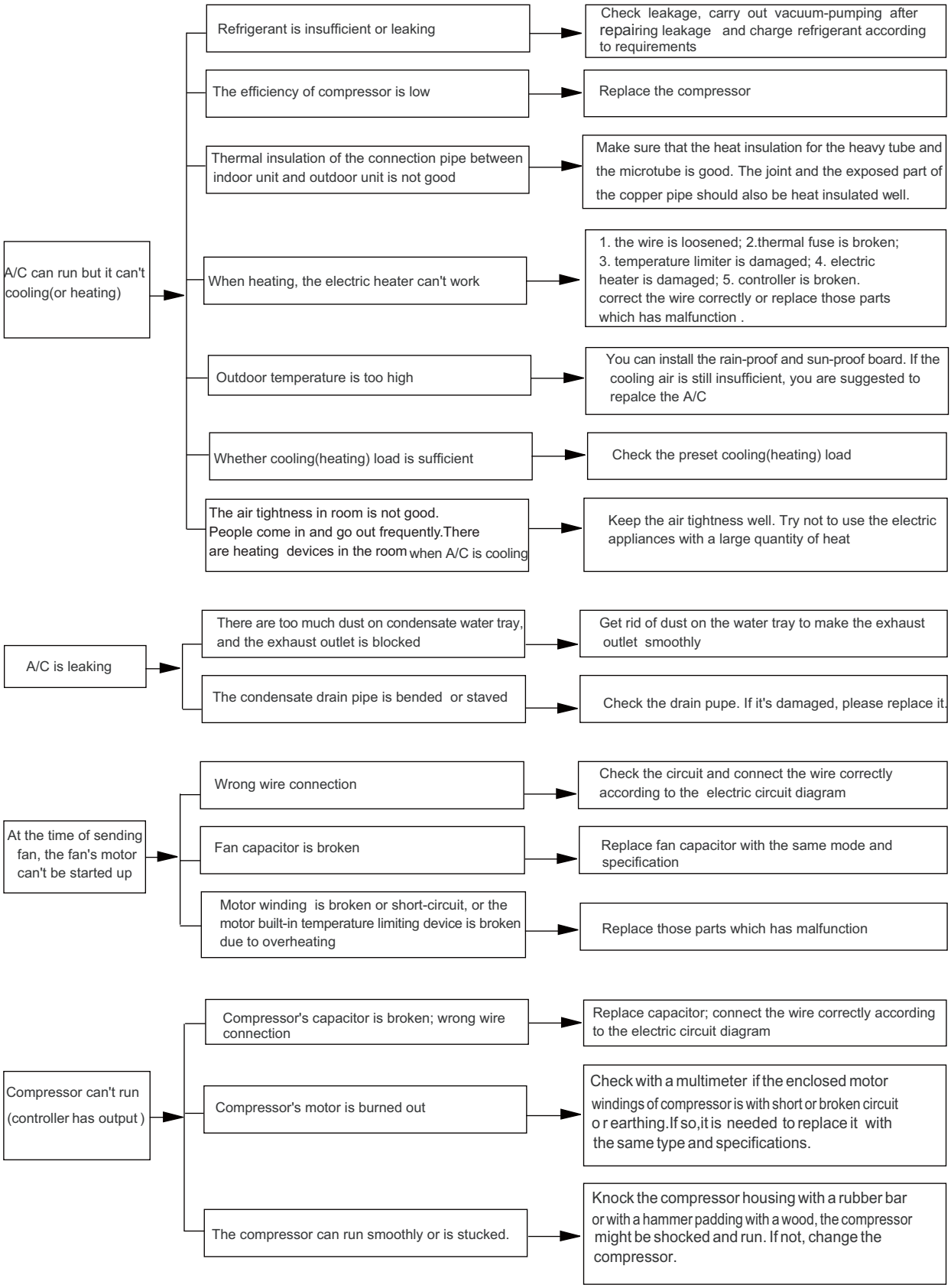
No.	Description	Part Code	Qty
		GJH21AC-K3RND2A	
	Product Code	CC052020600	
1	Cabinet Assy	01431118	1
2	Condenser Assy	01101118	1
3	Axial Flow Fan	10331163	1
4	Rear Clapboard	01231099	1
5	Motor Support 1	01701605	1
6	Fan Motor	1501120707	1
7	Motor Support 2	01701604	1
8	Top Cover Board Sub-assy	01251611	1
9	Soft Start Device	30116042	1
10	Electric Box	20101236	1
11	Capacitor CBB65	33010603	1
12	Electric Box Cover	20101237	1
13	Electric Box Sub-Assy	20101238	1
14	Front Clapboard Sub-Assy	012318041	1
15	Base Plate Of Air Flue	01221602	1
16	Propeller Housing	12101602	1
17	Air Outlet Sub-Assy	2000103601	1
18	Air Door Lever	10581601	1
19	Swing lever	10581602	1
20	Swing Lever2	10581021	1
21	Step Motor	1521211601	1
22	Swing blade Support	10581603	1
23	Crank	73011001	1
24	Air Louver	10511601	2
25	Centrifugal Fan Sub-Assy	10311501	1
26	Front Clapboard of Propeller housing	01231604	1
27	Evaporator Assy	01001100	1
28	Compressor and fittings	00101299	1
29	Compressor Gasket	99071370	3
30	Capillary Sub-Assy	03001498	1
31	4-Way Valve Assy	03021191	1
32	Magnet Coil	430004017	1
33	Water Tray	12411007	1
34	Chassis Sub-assy	0120110701P	1
35	Drainage Valve	07100164	1
36	Drainage Box	20181801	1
37	Cabinet Fastener	26251601	1
38	Chassis clamp	01211601	1
39	Power Cord	400204911	1
40	Electric Box Assy	20101428	1

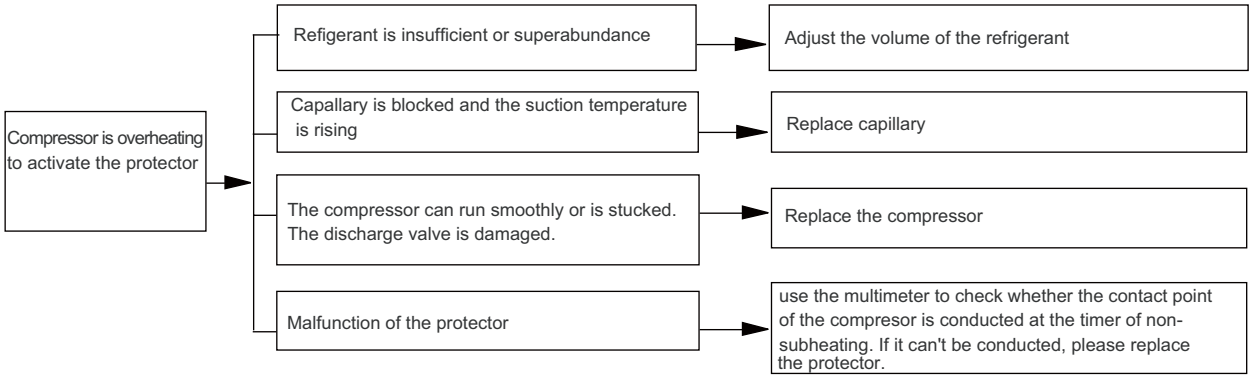
41	Capacitor CBB61	33010037	1
42	Capacitor CBB65	33000001	1
43	Electric box	20111031	1
44	Main Board	30132092	1
45	Ambient Temperature Sensor	390000451	1
46	Temperature Sensor	390000596	1
47	Temperature Sensor	390000372	1
48	Display Board	30562019	1
49	LCD board(remote control)	20120037	1
50	Membrane	2243113201	1
51	Front Panel Assy	20001541	1
52	Guide blade lever	10581604	1
53	Guide blade	105116021	14
54	Front Case	20001601	1
55	Filter Sub-Assy	11121601	1
56	Front Panel	20001497	1
57	Remote Controller	30511030	1

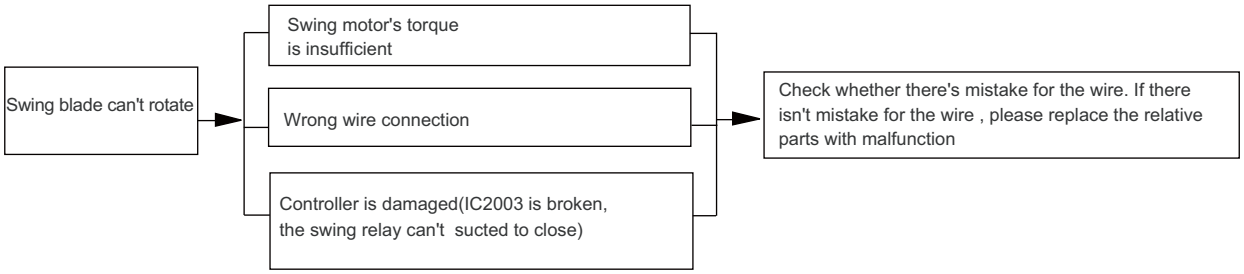
The data above are subject to change without notice.

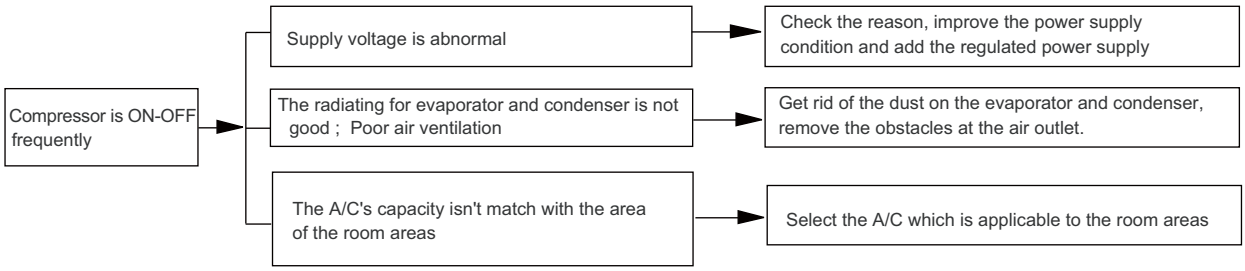
9.Troubleshooting

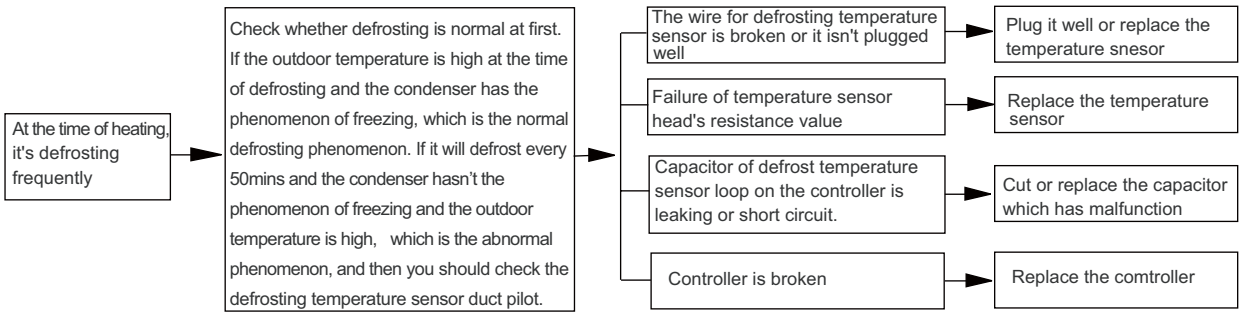


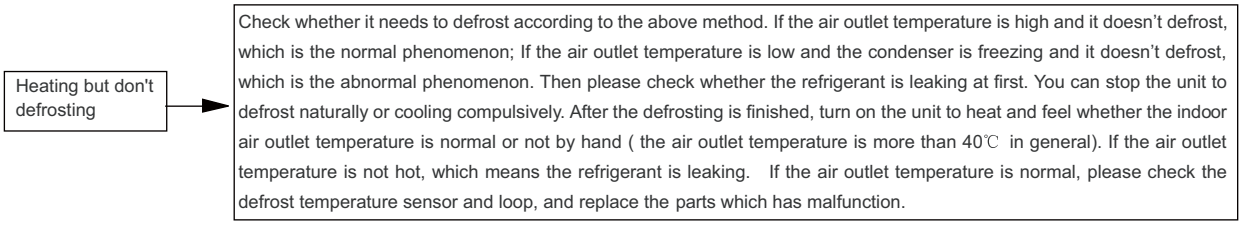

A/C can run but it can't cooling(or heating)
Refrigerant is insufficient or leaking
Check leakage, carry out vacuum-pumping after repairing leakage and charge refrigerant according to requirements
The efficiency of compressor is low
Replace the compressor
Thermal insulation of the connection pipe between indoor unit and outdoor unit is not good
Make sure that the heat insulation for the heavy tube and the microtube is good. The joint and the exposed part of the copper pipe should also be heat insulated well.
When heating, the electric heater can't work
1. the wire is loosened; 2.thermal fuse is broken; 3. temperature limiter is damaged; 4. electric heater is damaged; 5. controller is broken. correct the wire correctly or replace those parts which has malfunction .
Outdoor temperature is too high
You can install the rain-proof and sun-proof board. If the cooling air is still insufficient, you are suggested to repalce the A/C
Whether cooling(heating) load is sufficient
Check the preset cooling(heating) load
The air tightness in room is not good. People come in and go out frequently.There are heating devices in the room when A/C is cooling
Keep the air tightness well. Try not to use the electric appliances with a large quantity of heat
A/C is leaking
There are too much dust on condensate water tray, and the exhaust outlet is blocked
Get rid of dust on the water tray to make the exhaust outlet smoothly
The condensate drain pipe is bended or staved
Check the drain pupe. If it's damaged, please replace it.
At the time of sending fan, the fan's motor can't be started up
Wrong wire connection
Check the circuit and connect the wire correctly according to the electric circuit diagram
Fan capacitor is broken
Replace fan capacitor with the same mode and specification
Motor winding is broken or short-circuit, or the motor built-in temperature limiting device is broken due to overheating
Replace those parts which has malfunction
Compressor can't run (controller has output)
Compressor's capacitor is broken; wrong wire connection
Replace capacitor; connect the wire correctly according to the electric circuit diagram
Compressor's motor is burned out
Check with a multimeter if the enclosed motor windings of compressor is with short or broken circuit o r earthing.If so,it is needed to replace it with the same type and specifications.
The compressor can run smoothly or is stucked.
Knock the compressor housing with a rubber bar or with a hammer padding with a wood, the compressor might be shocked and run. If not, change the compressor.

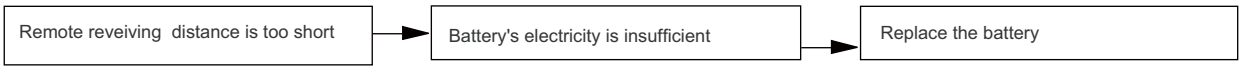

Compressor is overheating to activate the protector
Refigerant is insufficient or superabundance
Adjust the volume of the refrigerant
Capallary is blocked and the suction temperature is rising
Replace capillary
The compressor can run smoothly or is stucked. The discharge valve is damaged.
Replace the compressor
Malfunction of the protector
use the multimeter to check whether the contact point of the compresor is conducted at the timer of non-subheating. If it can't be conducted, please replace the protector.

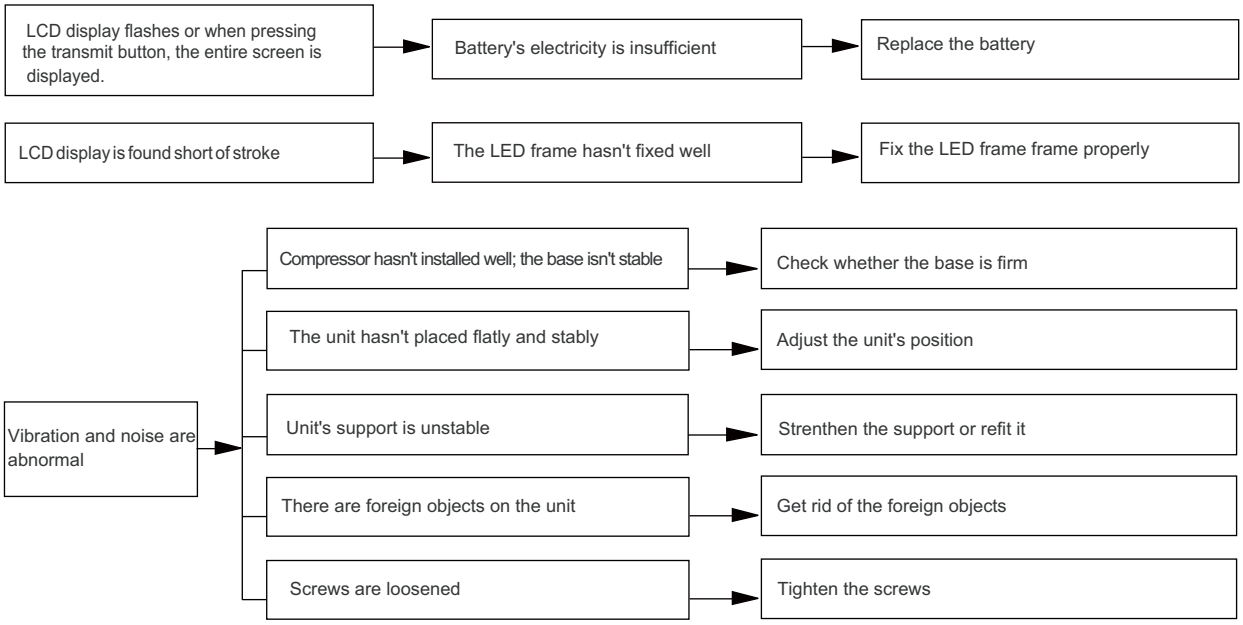

Swing blade can't rotate
Swing motor's torque is insufficient
Wrong wire connection
Controller is damaged(IC2003 is broken, the swing relay can't sucted to close)
Check whether there's mistake for the wire. If there isn't mistake for the wire , please replace the relative parts with malfunction


Compressor is ON-OFF frequently
Supply voltage is abnormal
Check the reason, improve the power supply condition and add the regulated power supply
The radiating for evaporator and condenser is not good ; Poor air ventilation
Get rid of the dust on the evaporator and condenser, remove the obstacles at the air outlet.
The A/C's capacity isn't match with the area of the room areas
Select the A/C which is applicable to the room areas


At the time of heating, it's defrosting frequently
Check whether defrosting is normal at first. If the outdoor temperature is high at the time of defrosting and the condenser has the phenomenon of freezing, which is the normal defrosting phenomenon. If it will defrost every 50mins and the condenser hasn't the phenomenon of freezing and the outdoor temperature is high, which is the abnormal phenomenon, and then you should check the defrosting temperature sensor duct pilot.
The wire for defrosting temperature sensor is broken or it isn't plugged well
Plug it well or replace the temperature snesor
Failure of temperature sensor head's resistance value
Replace the temperature sensor
Capacitor of defrost temperature sensor loop on the controller is leaking or short circuit.
Cut or replace the capacitor which has malfunction
Controller is broken
Replace the comtroller


Heating but don't defrosting
Check whether it needs to defrost according to the above method. If the air outlet temperature is high and it doesn't defrost, which is the normal phenomenon; If the air outlet temperature is low and the condenser is freezing and it doesn't defrost, which is the abnormal phenomenon. Then please check whether the refrigerant is leaking at first. You can stop the unit to defrost naturally or cooling compulsively. After the defrosting is finished, turn on the unit to heat and feel whether the indoor air outlet temperature is normal or not by hand (the air outlet temperature is more than 40℃ in general). If the air outlet temperature is not hot, which means the refrigerant is leaking. If the air outlet temperature is normal, please check the defrost temperature sensor and loop, and replace the parts which has malfunction.


Remote reveiving distance is too short
Battery's electricity is insufficient
Replace the battery

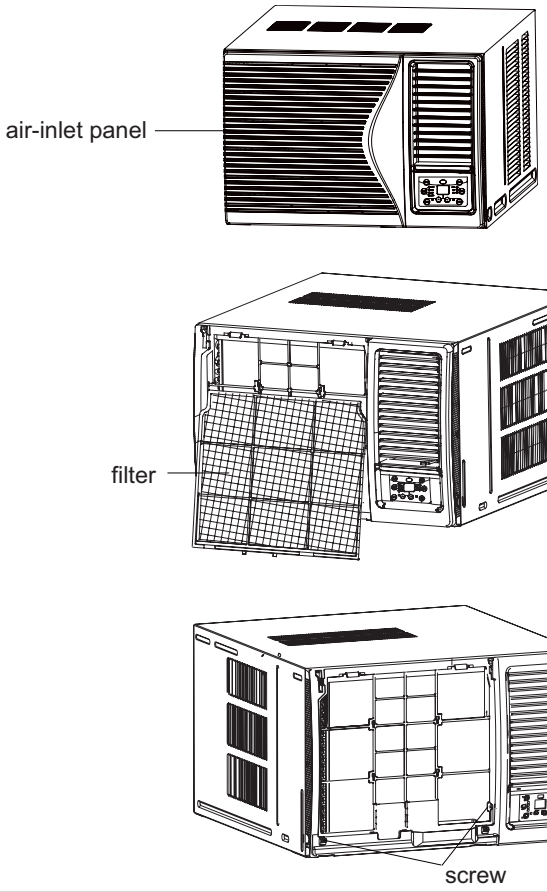
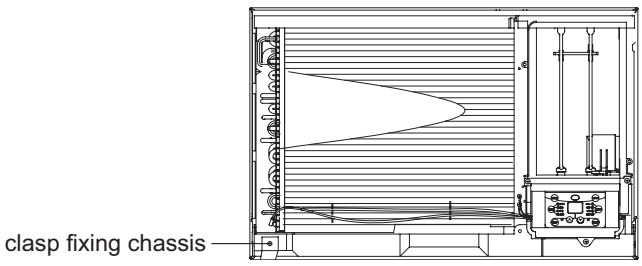


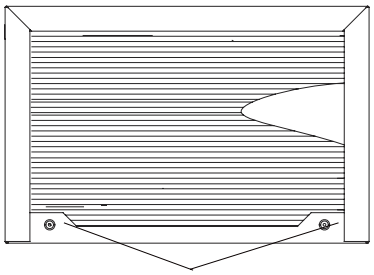
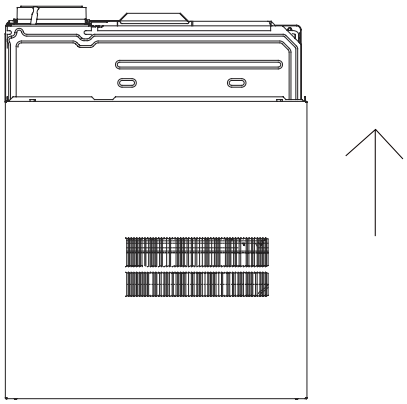
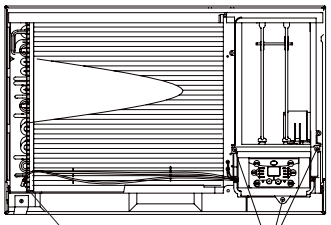
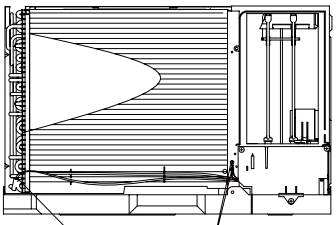
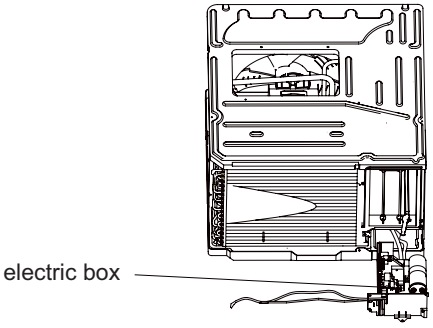
Notice: As for the above malfunction analysis, there aren't malfunction related to heating for cooling only units.

10.Removal Procedure

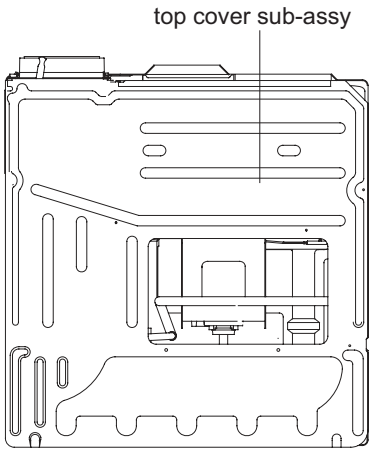
Warning **Be sure to wait for a minimum of 10 minutes after turning off all power supplies before disassembly.**

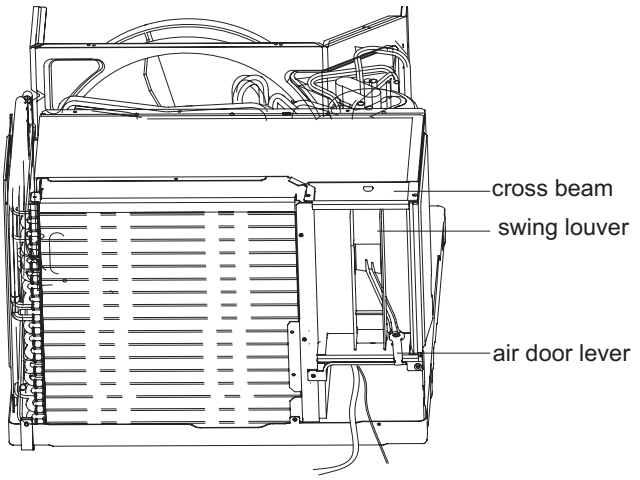
Cooling only models

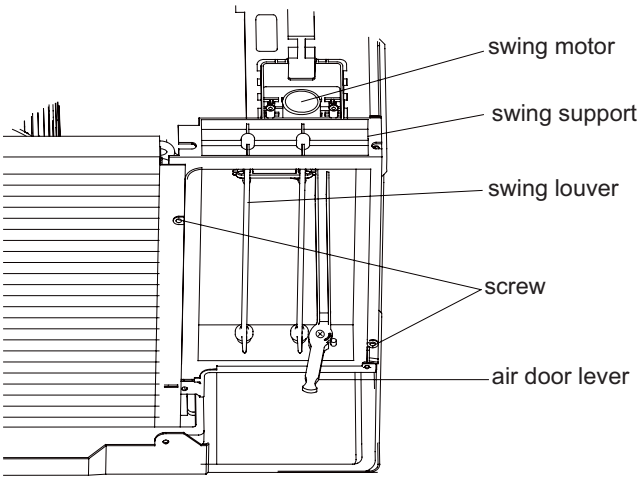
Steps	Procedure	
1.Remove panel assy		
	Open t he air-inlet panel; remove the filter; remove the screws in the middle, at the left side and right side of the panel; beat the clasp of cabinet slightly and then remove the panel.	
2.Remove cabinet		
	Loosen the clasp fixing chassis; remove the screws fixing the rear part of cabinet and then pull out the unit.	

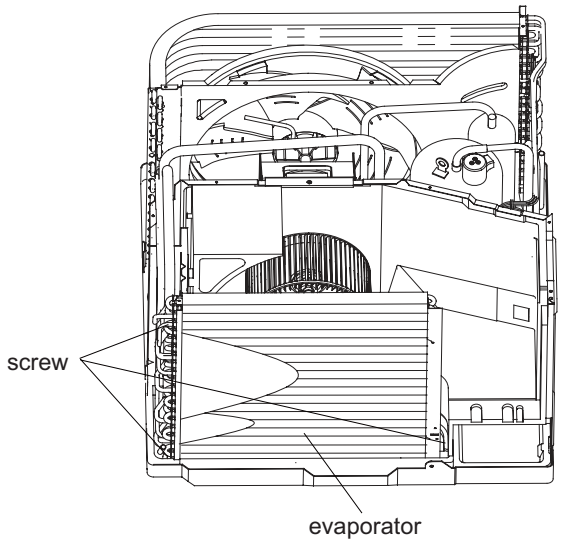
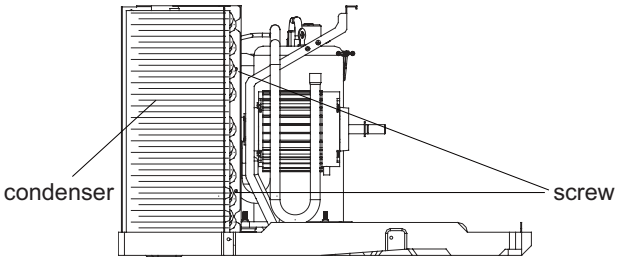
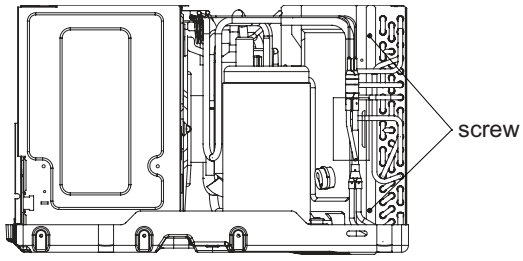
Steps	Procedure	
		 screws 
3.Remove electric box		
	Remove remote control plate, earthing screw and temp sensor in turn. Then remove electric box.	 temp sensor screws  temp sensor earthing screw  electric box

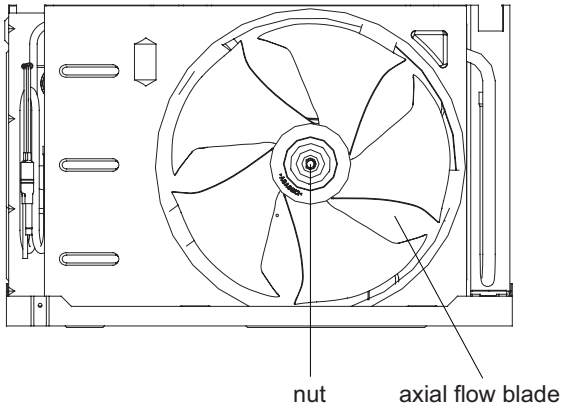
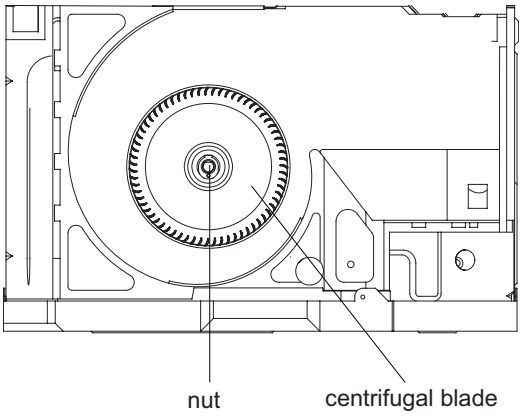
Steps	Procedure
4.Remove top cover	
	Remove the screws fixing top cover and then remove the top cover.
5.Remove cross beam,swing louver ,air door lever	
	Take out the cross beam; take out the swing louver; remove the screws fixing air door lever and then remove the air door lever. Applicable for 07/09K Applicable for 12/18/21K

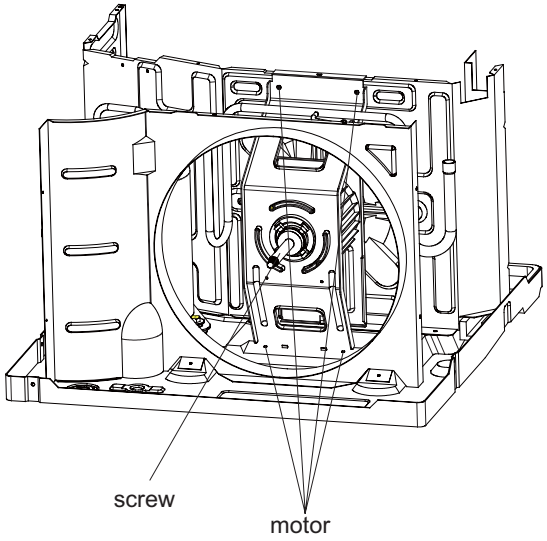
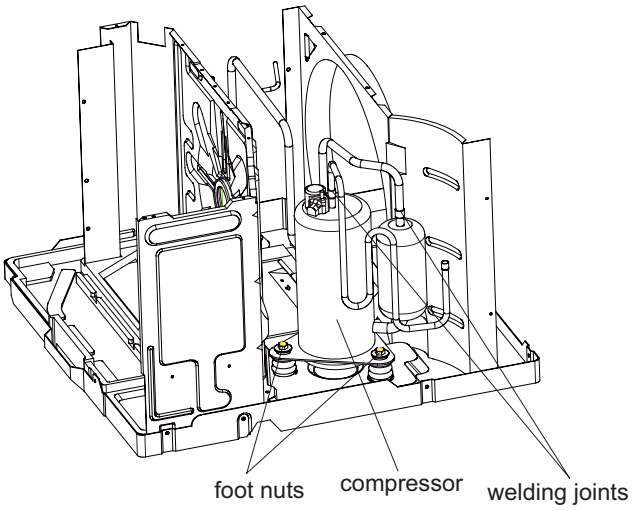




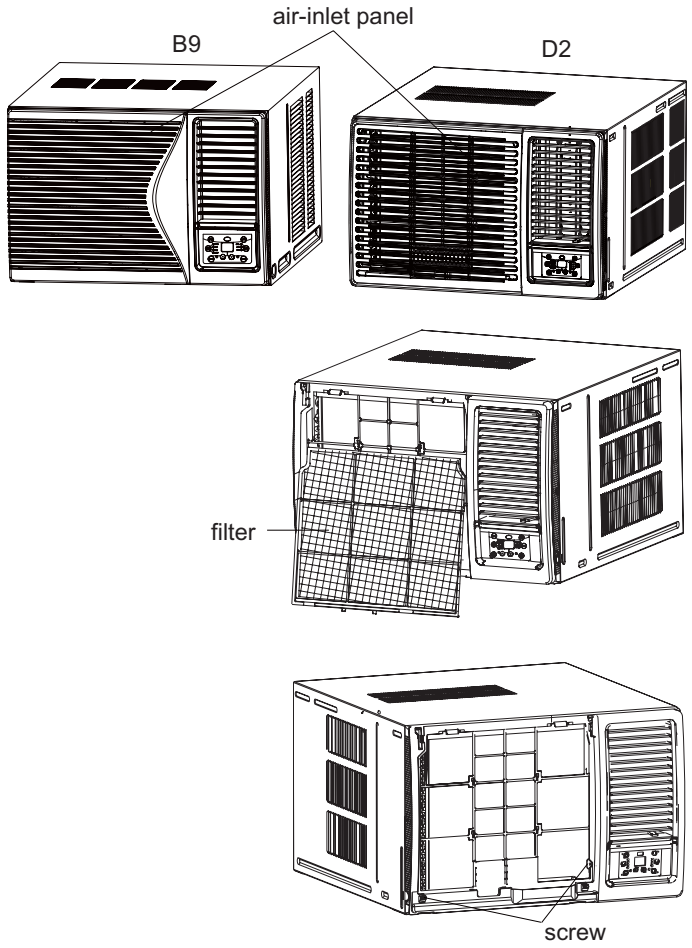
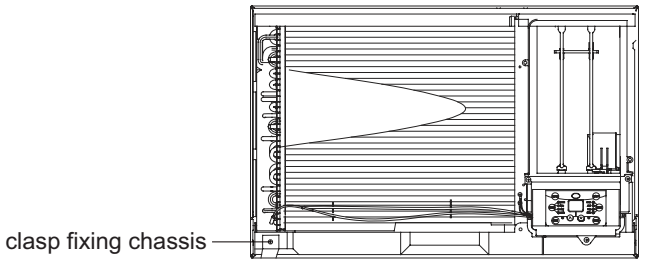


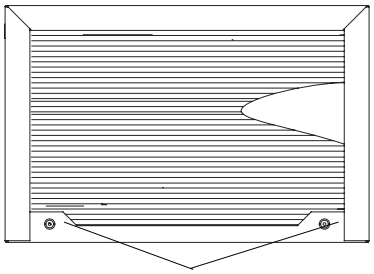
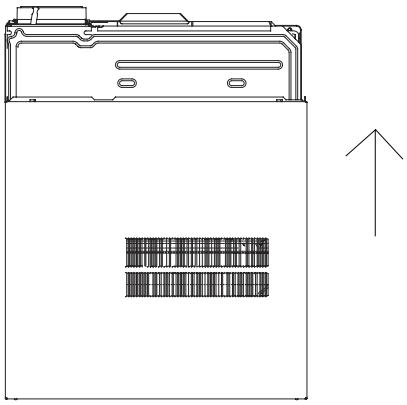
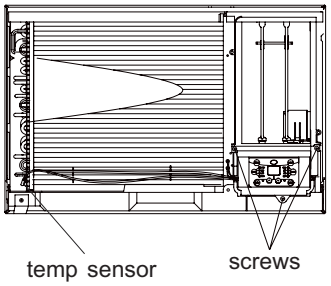
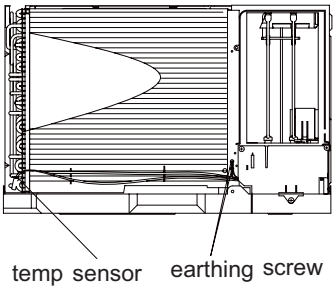
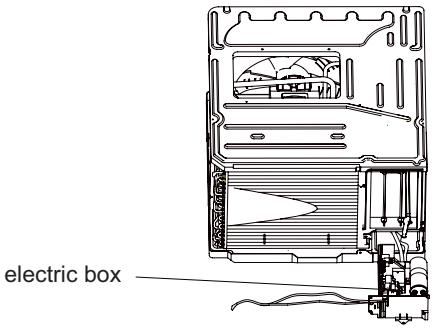
Steps	Procedure
6.Remove evaporator	
Unsolder each connection pipe (Note: discharge the refrigerant completely before unsoldering). Remove the screws fixing evaporator and then remove the evaporator.	
7.Remove evaporator	 
Unsolder each connection pipe (Note: discharge the refrigerant completely before unsoldering). Remove the screws fixing condenser and then remove the condenser.	

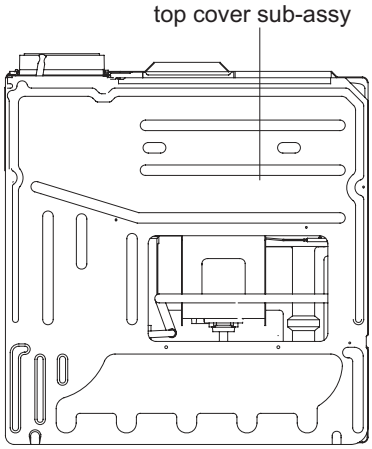
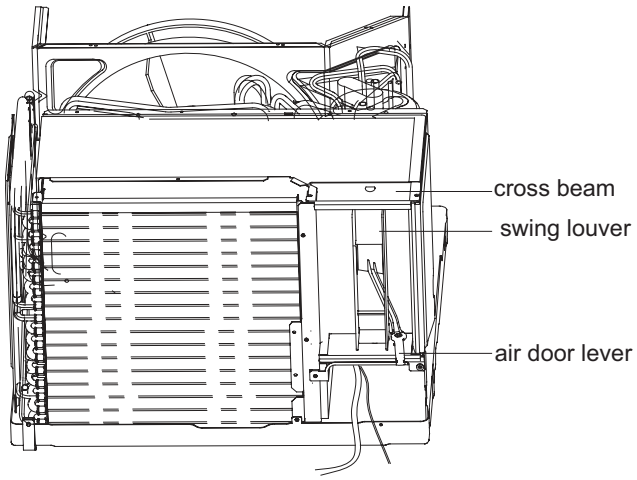
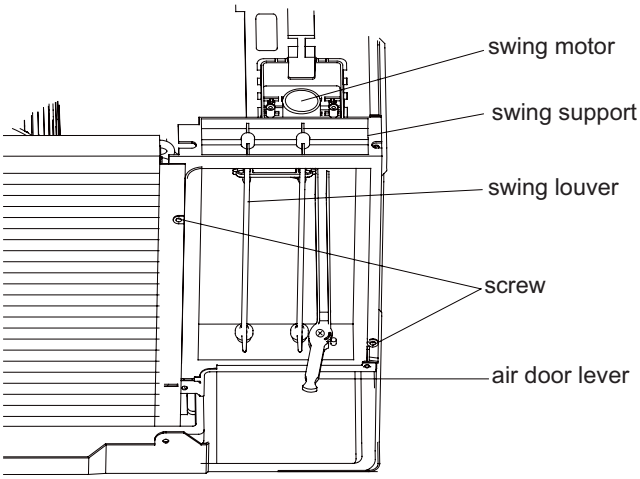
Steps	Procedure
8.Remove axial flow blade	
	Remove the nuts of axial flow blade; remove the washer and then remove the axial flow blade.
	
9.Remove centrifugal blade	
	Remove the nuts of centrifugal blade and then remove the centrifugal blade.
	

Steps	Procedure
10.Remove motor	
	Remove the screws of motor support; take out the motor support; remove the screws of motor and then remove the motor.
	
11.Remove compressor	
	Unsolder each connection pipe (Note: discharge the refrigerant completely before unsoldering). Remove the 3 foot nuts of compressor and then remove the compressor.
	

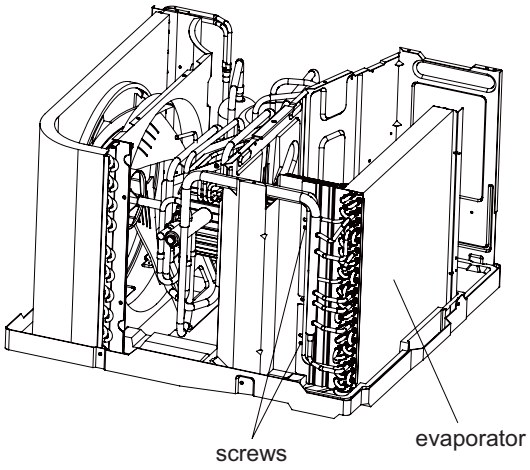
Heating and cooling models

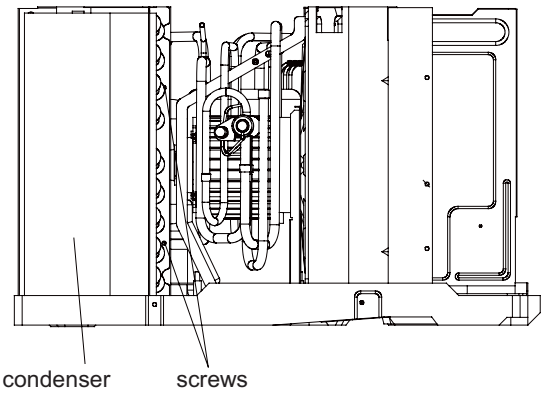
Steps	Procedure	
1.Remove panel assy		
	Open t he air-inlet panel; remove the filter; remove the screws in the middle, at the left side and right side of the panel; beat the clasp of cabinet slightly and then remove the panel.	
2.Remove cabinet		
	Loosen the clasp fixing chassis; remove the screws fixing the rear part of cabinet and then pull out the unit.	

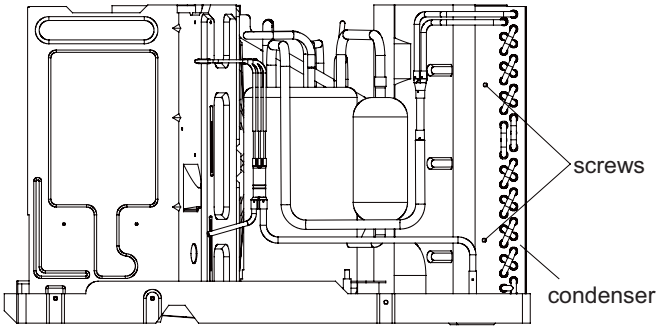
Steps	Procedure	
		 screws 
3.Remove electric box		
	Remove remote control plate, earthing screw and temp sensor in turn. Then remove electric box.	 temp sensor screws  temp sensor earthing screw  electric box

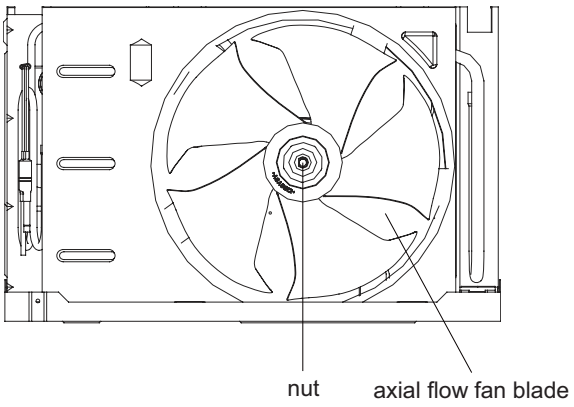
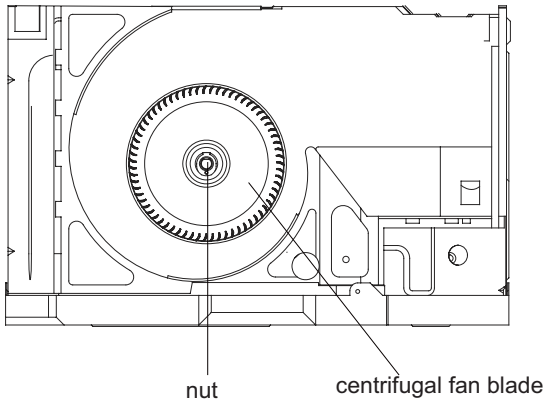
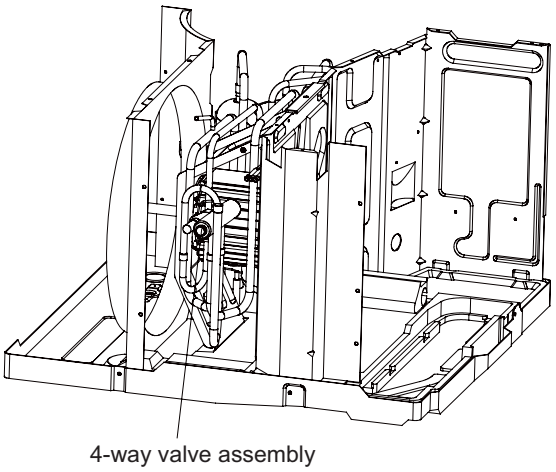
Steps	Procedure	
4.Remove top cover		
	Remove the screws fixing top cover and then remove the top cover.	
5.Remove cross beam,swing louver ,air door lever		
	Take out the cross beam; take out the swing louver; remove the screws fixing air door lever and then remove the air door lever. Applicable for 07/09K	
	Applicable for 12/18/21K	

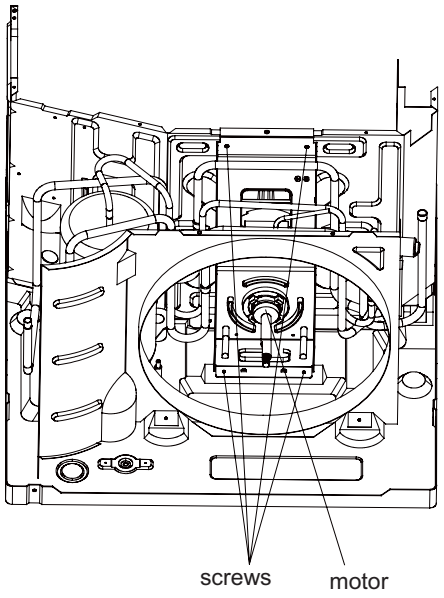
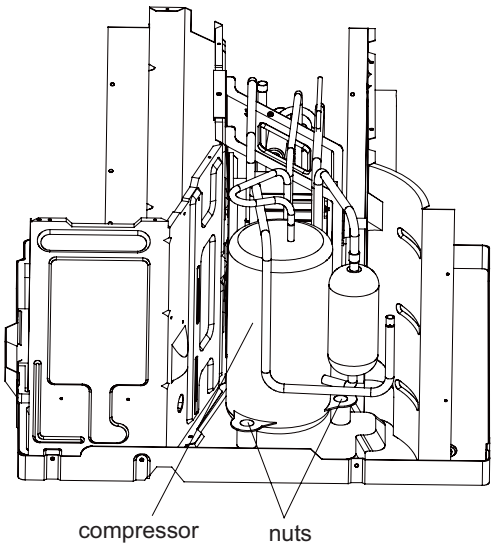
Steps	Procedure
6.Remove evaporator	
	Unsolder each connecting pipe (Note：discharge refrigerant firstly) and then remove screws fixing evaporator. Then remove evaporator.
7.Remove condenser	
	Unsolder each connecting pipe (Note: discharge refrigerant firstly.) Remove screws fixing condenser and then remove condenser.







Steps	Procedure
8.Remove axial flow fan blade	
	Remove nut fixing axial flow fan blade and the washer. Then remove axial flow fan blade.
	
9.Remove centrifugal fan blade	
	Remove nut fixing centrifugal fan blade and then remove centrifugal fan blade.
	
10.Remove 4-way valve assembly	
	Unsolder pipe of 4-way valve. Then remove 4-way valve assembly.
	

Steps	Procedure
11.Remove motor	
	Remove screws of motor support and then remove motor support. Remove screws of motor and then remove the motor.
	
12.Remove compressor	
	Unsolder each connecting pipe (Note: discharge refrigerant firstly) and then remove 3-hold down nuts of compressor. Remove compressor.
	

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