CASSETTE TYP FANCOIL UNIT SERVICE MANUAL

(GC201109-I)

GREE ELECTRIC APPLIANCES, INC.OF ZHUHAI

Contents

PRODUCT

PRODUCT
1. MODELS LIST

Model Name	Code	Cooling Capacity (W)	Air flow volume (m^3/h)	Power Supply (V, Ph, Hz)	Remarks
FP-8XD-E	EM52000051	4600	850	220-240V~-1Ph-50Hz	
FP-8XD/A-E	EM5200045010	4640	850	220-240V~-1Ph-50Hz	
FP-10XD-E	EM52000061	5400	1020	220-240V~-1Ph-50Hz	
FP-10XD/A-E	EM5200046010	5400	1020	220-240V~-1Ph-50Hz	
FP-12.5XD-E	EM52000031	6700	1270	220-240V~-1Ph-50Hz	
FP-12.5XD/A-E	EM5200047010	6700	1250	220-240V~-1Ph-50Hz	
FP-14XD-E	EM52000071	7700	1560	220-240V~-1Ph-50Hz	
FP-14XD/A-E	EM5200048010	7740	1430	220-240V~-1Ph-50Hz	
FP-16XD-E	EM52000081	8700	1640	220-240V~-1Ph-50Hz	
FP-16XD/A-E	EM5200049010	8700	1640	220-240V~-1Ph-50Hz	
FP-18XD-E	EM52000041	9600	1850	220-240V~-1Ph-50Hz	
FP-18XD/A-E	EM5200050010	9600	1800	220-240V~-1Ph-50Hz	

FP-51XD-E	EM52000011	3000	510	220-240V~-1Ph-50Hz	
FP-68XD-E	EM52000021	3500	630		

2. NOMENCLATURE OF THE UNIT

FP	-	□	□	□	/	□	-	□
1		2	3	4		4		5

NO.	Description	Options
1	Fan coil	
2	Air flow volume	Number×10 m^3/h(FP-51XD-E;FP-68XD-E);Number×100 m^3/h(8,10,12.5,14,16,18)
3	Structure type	Ceiling Type
4	Design Sequence	Arranged by A, B,C…
5	Power code	E=220-240V~-1Ph-50Hz

3. FUNCTION

1. Novel pattern: the exposed skin plates of unit look so elegant and luxurious that they can be taken as the indoor decorations.
2. Compact design: A large number of non-metallic materials have been used, so that the body of the unit is quite light-weight and thin, which makes the unit looks sensuous.
3. Low noise: Dynamic principles have been adopted for the design of the fan blades so as to make sure the air volume is enough and running noise is considerably low.
4. Durable filter screen: The durable filter screen shares a cleaning cycle 20 times longer than that of the conventional filter screen, needless to clean it frequently.
5. Microcomputer control: The unit is able to automatically adjust the fan speed in accordance with the indoor ambient temperature to meet a wide range of users' requirements.
6. Small height of the unit, saving much installation space
7. Large cooling (heating) capacity, low noise, three-speed motor which can adjust the air volume and meet a wide range of users' requirements.
8. Excellent material, stringent process control, which guarantee the hi-quality and long life of the unit.
9. Die-formed drain pan, entirely bonded insulating material, carefree about the condensate water.

4. PRODUCT DATA

Model			FP-8XD/A-E	FP-10XD/A-E	FP-12.5XD/A-E	FP-14XD/A-E
Code			EM5200045010	EM5200046010	EM5200047010	EM5200048010
Air flow volume	High	CFM	500	600	735	841
		m^3/h	850	1020	1250	1430
	Medium	CFM	375	464	606	802
		m^3/h	637	789	1030	1363
	Low	CFM	303	362	538	705
		m^3/h	515	615	915	1200
Capacity	Cooling	W	4640	5400	6700	7740
	Heating	W	7500	9100	10500	11200
Power system	Type	V-Ph-Hz	220-240V~-1Ph-50Hz	220-240V~-1Ph-50Hz	220-240V~-1Ph-50Hz	220-240V~-1Ph-50Hz
	Input	W	100	100	150	140
Exterior static pressure		Pa	0	0	0	0
Water system	Water flow volume	m^3/h	0.829	0.964	1.196	1.382
	Pressure drop	kPa	15	25	25	30
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		FN35B	FN35B	FN35B	FN50T
	Capacitor	uF	2.5	3.5	3.5	2.5
	Power output	W	35	35	35	50
Sound pressure level		dB(A)	46	46	47	52
Connection pipe size	Water inlet &outlet	inch	3/4"	3/4"	3/4"	3/4"
	Condensing water drain	mm	32	32	32	32
Outline dimension (W × D × H)	Body	mm	840×840×240	840×840×240	840×840×240	840×840×320
	Panel	mm	960×960×60	960×960×60	960×960×60	960×960×60
Package dimension (W × D × H)	Body	mm	960X960X310	960X960X310	960X960X310	960X960X394
	Panel	mm	1040X1025X115	1040X1025X115	1040X1025X115	1040X1025X115
Net weight	Body	kg	27	27	27	33
	Panel	kg	6.5	6.5	6.5	6.5
Gross weight	Body	kg	35	35	35	42
	Panel	kg	10	10	10	10
Loading quantity		20'GP	84	84	84	72
		40'GP	168	168	168	120
		40'HQ	192	192	192	144
wired remote controller			Z5K351	Z5K351	Z5K351	Z5K351
wireless remote controller			Y512	Y512	Y512	Y512

Model			FP-16XD/A-E	FP-18XD/A-E
Code			EM5200049010	EM5200050010
Air flow volume	High	CFM	965	1060
		m^3/h	1640	1800
	Medium	CFM	853	1035
		m^3/h	1460	1760
	Low	CFM	781	932
		m^3/h	1327	1584
Capacity	Cooling	W	8700	9600
	Heating	W	12900	14600
Power system	Type	V-Ph-Hz	220-240V~-1Ph-50Hz	220-240V~-1Ph-50Hz
	Input	W	150	155
Exterior static pressure		Pa	0	0
Water system	Water flow volume	m^3/h	1.554	1.714
	Pressure drop	kPa	30	30
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa
Motor	Type		FN50T	FN50T
	Capacitor	uF	4.5	4.5
	Power output	W	50	50
Sound pressure level		dB(A)	53	54
Connection pipe size	Water inlet &outlet	inch	3/4"	3/4"
	Condensing water drain	mm	32	32
Outline dimension (W × D × H)	Body	mm	840×840×320	840×840×320
	Panel	mm	960×960×60	960×960×60
Package dimension (W × D × H)	Body	mm	960X960X394	960X960X394
	Panel	mm	1040X1025X115	1040X1025X115
Net weight	Body	kg	33	33
	Panel	kg	6.5	6.5
Gross weight	Body	kg	42	42
	Panel	kg	10	10
Loading quantity		20'GP	72	72
		40'GP	120	120
		40'HQ	144	144
wired remote controller			Z5K351	Z5K351
wireless remote controller			Y512	Y512

Model			FP-8XD-E	FP-10XD-E	FP-12.5XD-E	FP-14XD-E
Code			EM52000051	EM52000061	EM52000031	EM52000071
Power system	Type	V-Ph-Hz	220~240V-1-50Hz	220~240V-1-50Hz	220~240V-1-50Hz	220~240V-1-50Hz
	Input	w	100	100	150	140
Air flow volume	High	CFM	500	600	735	840
		m^3/h	850	1020	1250	1430
	Medium	CFM	375	464	606	802
		m^3/h	638	789	1030	1363
	Low	CFM	303	363	538	705
		m^3/h	515	617	914	1198
Capacity	Cooling	W	4640	5400	6700	7740
	Heating	W	7500	9100	10500	11200
Electric heater rated power		w	1400	1400	1400	1400
Water system	Water flow volume	m^3/h	0.81	0.95	1.18	1.36
	Pressure drop	kPa	15	25	25	25
Sound pressure level		dB(A)	46	46	47	52
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa	≤1.6MPa
Motor	Type		FN35B	FN35B	FN35B	FN50T
	Capacitor	uF	2.5	3.5	3.5	2.5
Connection pipe size	Water inlet &outlet	inch	3/4"	3/4"	3/4"	3/4"
	Condensing water drain	mm	32	32	32	32
Outline dimension (W × D × H)	Body	mm	840×840×240	840×840×240	840×840×240	840×840×320
	Panel	mm	960×960×60	960×960×60	960×960×60	960×960×60
Package dimension (W × D × H)	Body	mm	960×960×310	960×960×310	960×960×310	960×960×394
	Panel	mm	1040×1025×115	1040×1025×115	1040×1025×115	1040×1025×115
Net weight	Body	kg	30	30	30	38
	Panel	kg	6.5	6.5	6.5	6.5
Gross weight	Body	kg	38	38	38	46
	Panel	kg	10	10	10	10
Loading quantity		20'GP	61	61	51	51
		40'GP	116	116	116	93
		40'HQ	133	133	133	112
wired remote controller			Z5K351	Z5K351	Z5K351	Z5K351
wireless remote controller			Y512	Y512	Y512	Y512

Model			FP-16XD-E	FP-18XD-E
Code			EM52000081	EM52000041
Power system	Type	V-Ph-Hz	220~240V-1-50Hz	220~240V-1-50Hz
	Input	w	160	155
Air flow volume	High	CFM	965	1059
		m^3/h	1640	1800
	Medium	CFM	853	1035
		m^3/h	1450	1760
	Low	CFM	781	932
		m^3/h	1328	1584
Capacity	Cooling	W	8700	9600
	Heating	W	12900	14600
Electric heater rated power		w	1400	1400
Water system	Water flow volume	m^3/h	1.53	1.68
	Pressure drop	kPa	27	29
Sound pressure level		dB(A)	53	54
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa
Motor	Type		FN50T	FN50T
	Capacitor	uF	4.5	4.5
Connection pipe size	Water inlet &outlet	inch	3/4"	3/4"
	Condensing water drain	mm	32	32
Outline dimension (W × D × H)	Body	mm	840×840×320	840×840×320
	Panel	mm	960×960×60	960×960×60
Package dimension (W × D × H)	Body	mm	960×960×394	960×960×394
	Panel	mm	1040×1025×115	1040×1025×115
Net weight	Body	kg	38	38
	Panel	kg	6.5	6.5
Gross weight	Body	kg	46	46
	Panel	kg	10	10
Loading quantity		20'GP	51	51
		40'GP	93	93
		40'HQ	112	112
wired remote controller			Z5K351	Z5K351
wireless remote controller			Y512	Y512

Model			FP-51XD-E	FP-68XD-E
Code			EM52000011	EM52000021
Power system	Type	V-Ph-Hz	220~240V-1-50Hz	220~240V-1-50Hz
	Input	w	49	56
Air flow volume	High	CFM	300	371
		m^3/h	510	680
	Medium	CFM	247	318
		m^3/h	420	540
	Low	CFM	206	265
		m^3/h	350	450
Capacity	Cooling	W	3000	3500
	Heating	W	4000	5000
Electric heater rated power		w	-	-
Water system	Water flow volume	m^3/h	0.49	0.616
	Pressure drop	kPa	5	9
Sound pressure level		dB(A)	43	48
Coil	Type		Aluminum fin-copper tube	Aluminum fin-copper tube
	Operating pressure	MPa	≤1.6MPa	≤1.6MPa
Motor	Type		FN11T	FN11T
	Capacitor	uF	1	2.5
Connection pipe size	Water inlet &outlet	inch	3/4"	3/4"
	Condensing water drain	mm	25	25
Outline dimension (W × D × H)	Body	mm	600×600×230	600×600×230
	Panel	mm	650×650×50	650×650×50
Package dimension (W × D × H)	Body	mm	848×678×310	848×678×310
	Panel	mm	730×670×102	730×670×102
Net weight	Body	kg	19.3	19.3
	Panel	kg	5	5
Gross weight	Body	kg	27	27
	Panel	kg	6	6
Loading quantity		20'GP	114	114
		40'GP	216	216
		40'HQ	256	256
wired remote controller			Z5K351	Z5K351
wireless remote controller			Y512	Y512

Note:

1. The water working temperature is from 7℃ (44.6 ℉) to 60℃ (140 ℉).

2. The temperature exchange efficiency and enthalpy exchange efficiency are tested under these testing conditions as below:

(1) Cooling efficiency: air 27℃ (80.6 ℉) DB, 19.5℃ (67.1 ℉) WB, water temperature in 7℃ (44.6 ℉), water out 12℃ (53.6 ℉).

(2) Heating efficiency: air 21℃ (69.8 ℉) DB, Water temperature: 60℃ (140 ℉).

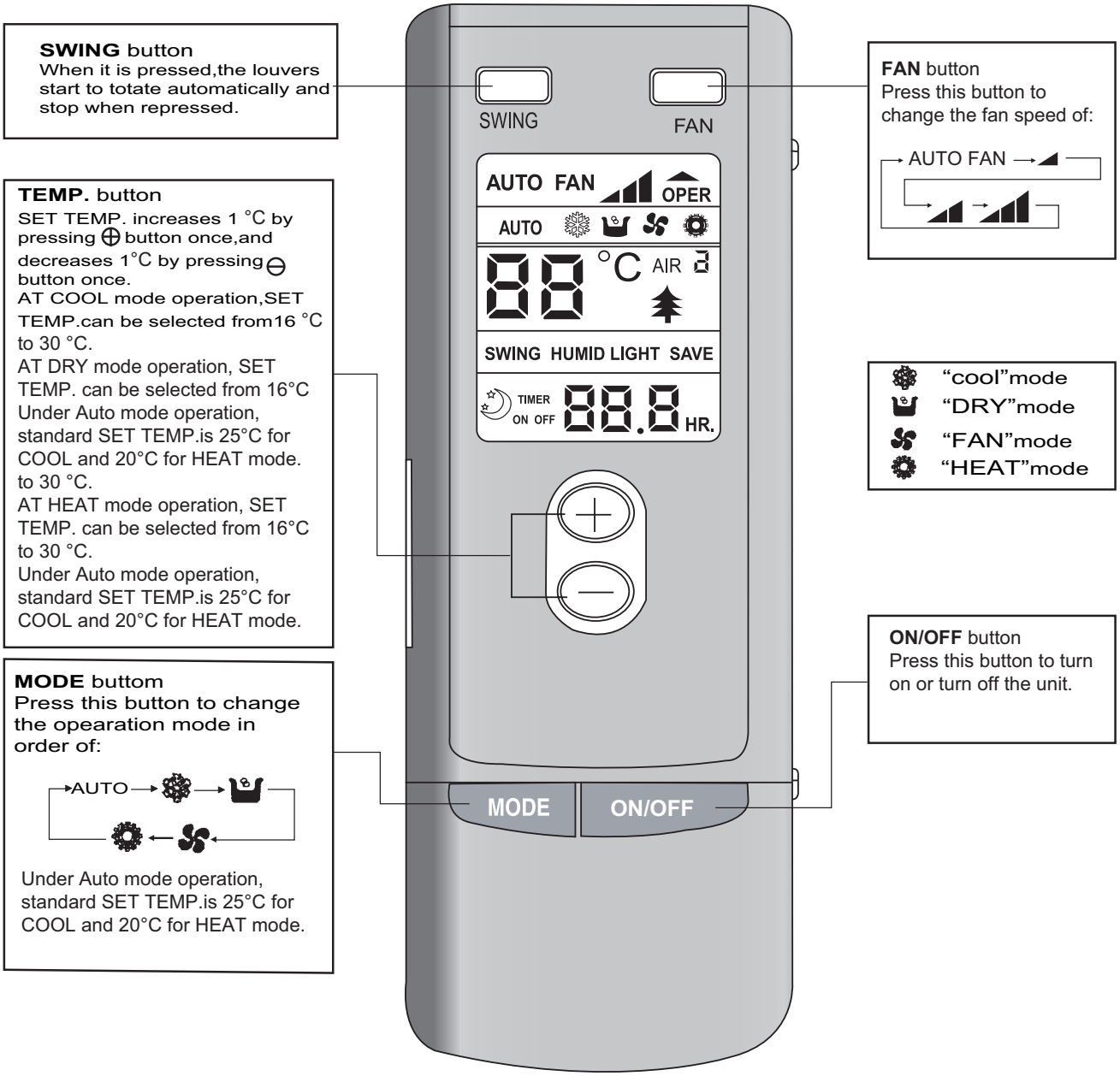
CONTROL

CONTROL

1. WIRELESS REMOTE CONTROLLER

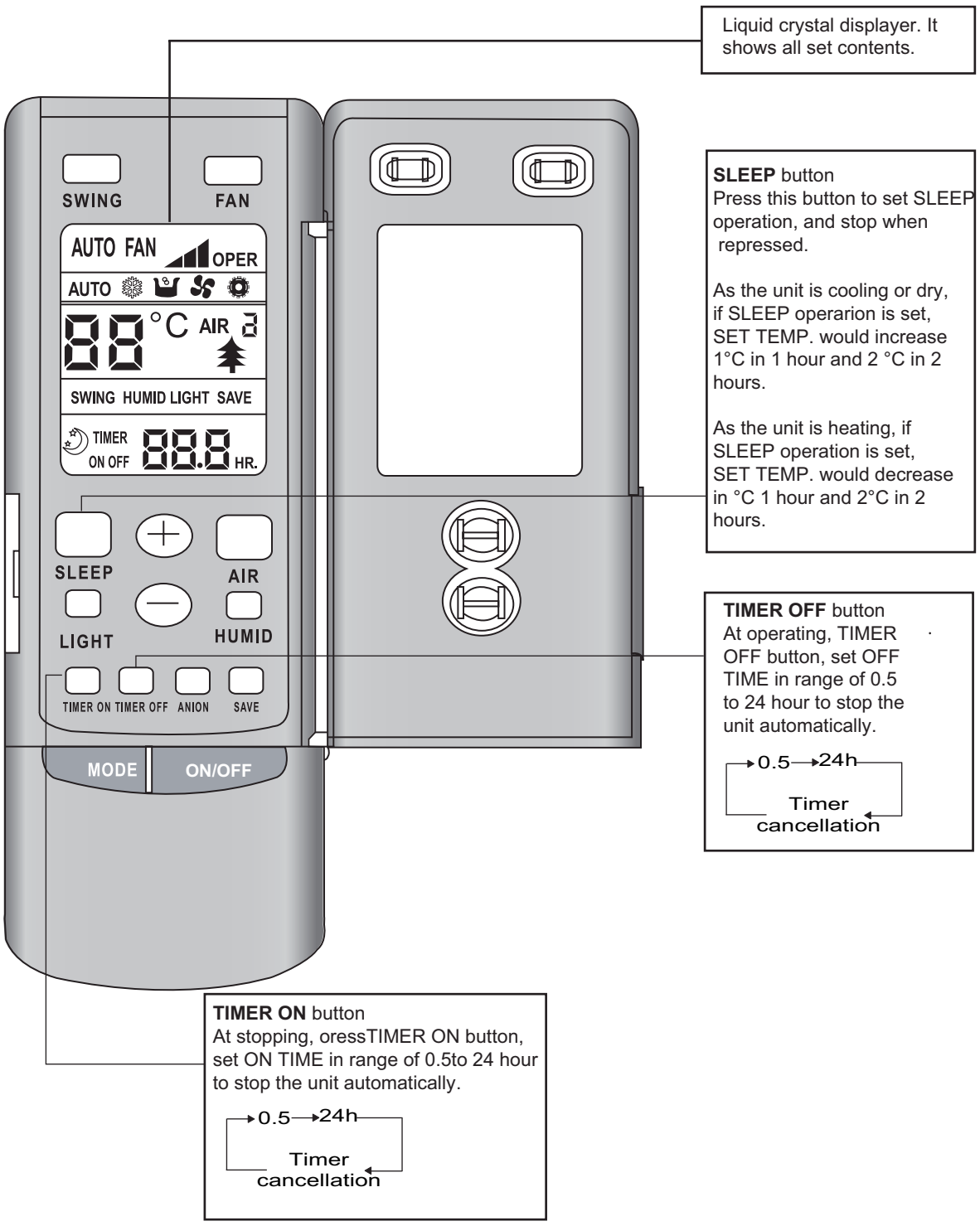
1.1 Names and functions –Remote control

Note: Be sure that there are no obstructions between receiver and remote controller; Don't drop or throw the remote control; Don't let any liquid in the remote control and put the remote control directly under the sunlight or any place where it is very hot.



1.2 Name and Function-Remote controller. (Remove the cover)

Note: This type of remote controller is a kind of new current controller. Some buttons of the controller which are not available to this Air conditioner will not be described below. Operate are on unmentioned buttons would not impact on the normal use.

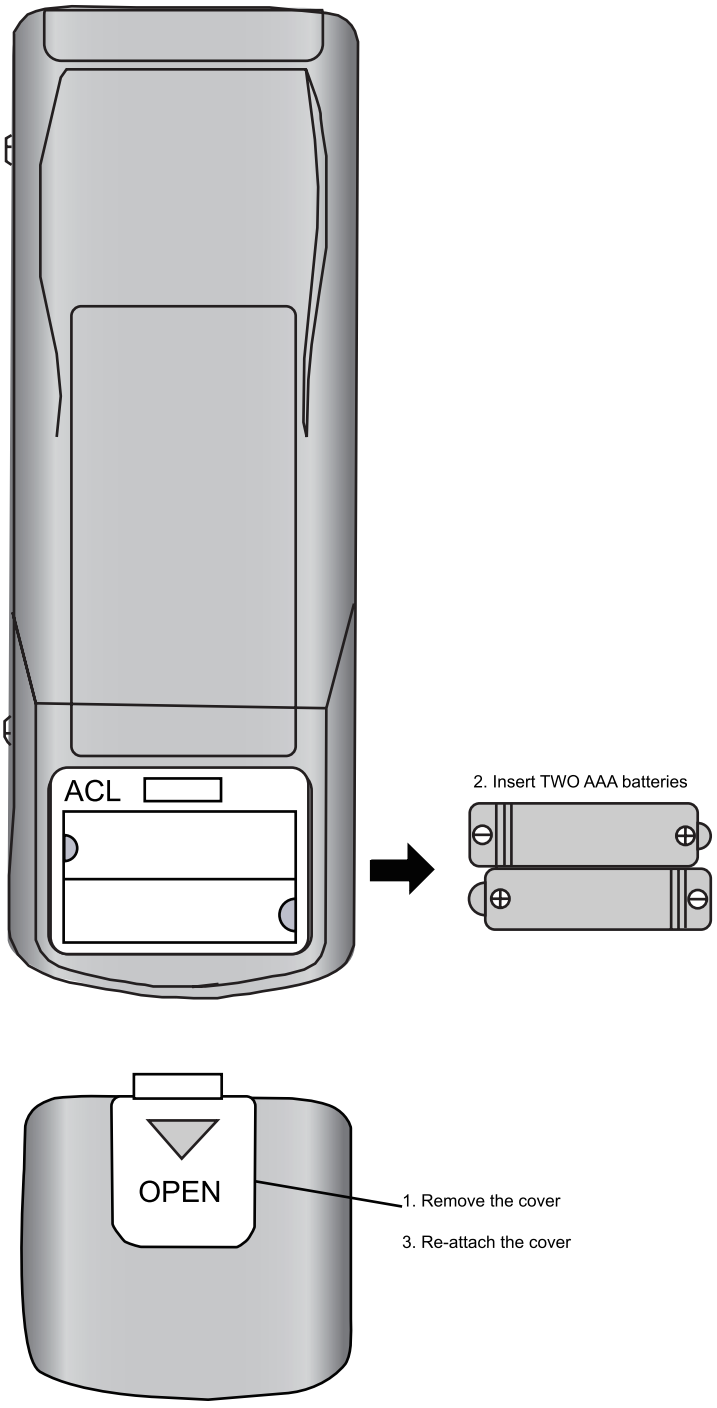


1.3 How to insert batteries

1. Remove the cover from the back of the remote controller.
2. Insert two batteries (TWO AAA dry-cell batteries) and press button “ACL”.
3. Re-attach the cover.

NOTE:

1. Don’t confuse the new and worn or different types of batteries.
2. Remove batteries when the remote controller is not in use for a longtime.
3. The lifetime of the batteries is about one year.
4. The remote controller should be placed about 1 m or more away from the TV. Or any other electric appliances.
5. Bad batteries are forbidden.



2. RED REMOTE CONTROLLER

2.1 Operation instruction of wired controller (optional)

NOTE; Never install the wire controller in a place where there is water leakage.
Avoid bumping, throwing, tossing or frequently opening the wire controller.

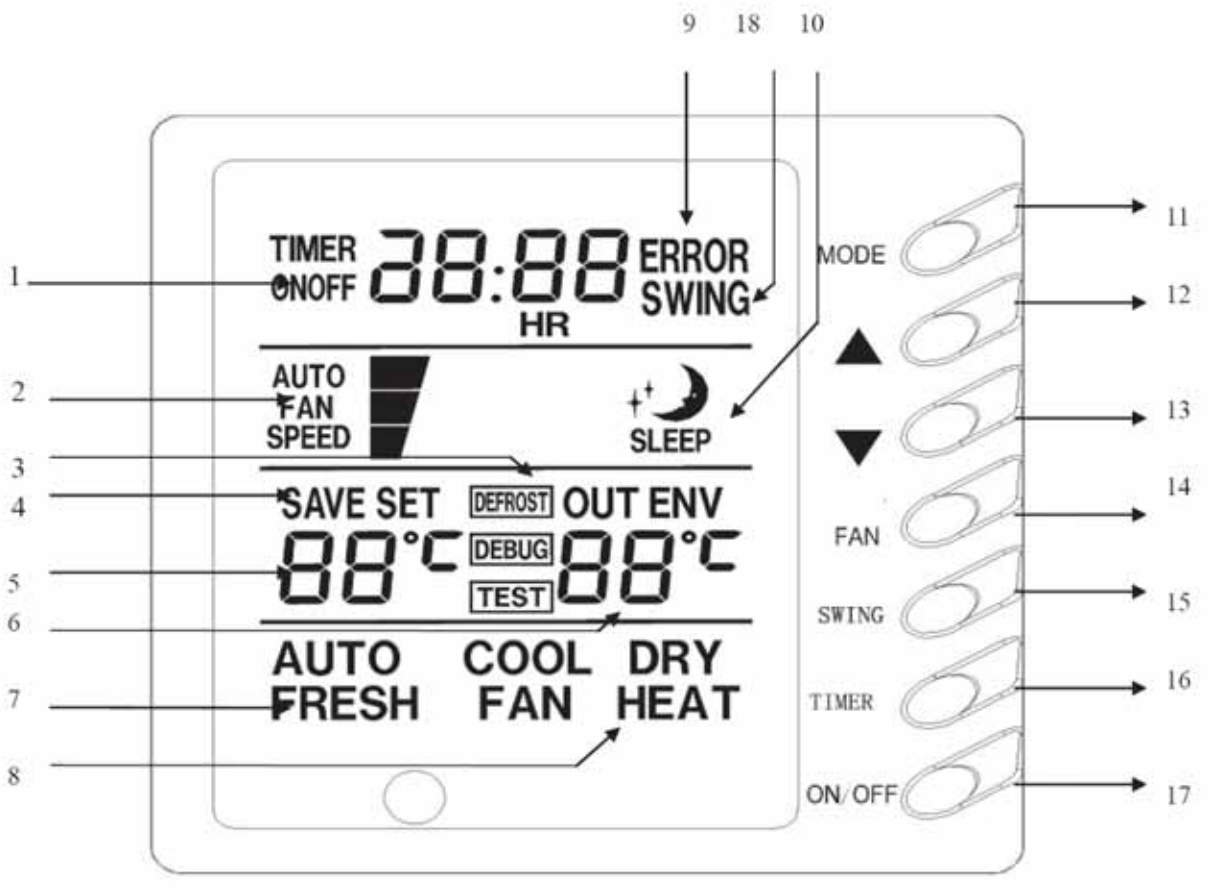


Fig.1

1	Time display	10	Sleep display
2	Fan speed display(Auto, High, Middle, Low)	11	MODE button
3	Defrosting display	12	Button for temp. increase
4	Saving state display	13	Button for temp. decrease
5	Set temp. display	14	FAN button
6	Ambient temp. display	15	SWING button
7	Fresh air display	16	TIMER button
8	Mode(COOL, DRY, FAN, AUTO)	17	ON/OFF button
9	Malfunction display	18	Display of Swing state

1) ON/OFF (Fig.2)

1. Press the “ON/OFF” button, the unit will start running.
2. Press the “ON/OFF” button, the unit will stop running.

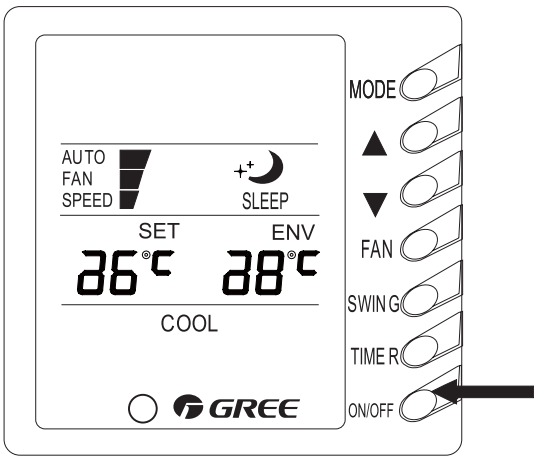


Fig.2

2) Fan control (Fig. 3) (The relevant contents are shown in the figure.)

Press this button to change the fan speed of:

LOW → MID → HIGH → AUTO

At the DRY mode: the fan speed will be set for low fan speed automatically.

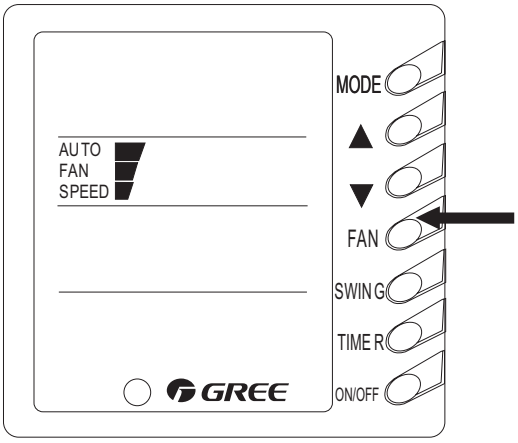


Fig. 3

3) Temperature adjustment(Fig.4)

Press the temperature adjustment button.

▲:For temperature increase;

▼:For temperature decrease.

(Press this button once, the temperature will be increased or decreased by 1℃ .)

NOTE: Lock function:

Press “▲” and ” ▼” at the same time for 5 seconds, the set temp. Indicating area shall display “EE” and all keys’ response shall be shut off, all buttons will be shielded; and repress the “▲” and ” ▼” simultaneously for 5 seconds, the lock function will be released. When the displayer of long-distance monitoring or central controller has been shielded, the buttons and remote control signal will be shielded too, the setting temp will display “CC”.

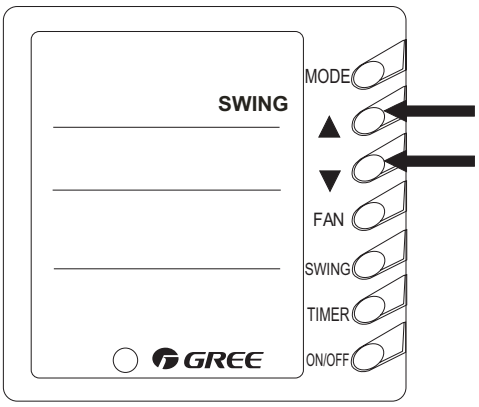


Fig. 4

The set temperature range under each mode:

HEAT -------- 16~30℃ ;

COOL -------- 16~30℃ ;

DRY -------- 16~30℃ ;

FAN -------- The temp cannot be set up;

AUTO -------- The temp cannot be set up.

4) Swing mode set up(Fig.5)

♦ When pressing “SWING” button, the type style “SWING” will be displayed on LCD, the unit will run in Swing mode

♦ When repressing the “SWING” button, that the typestyle “SWING” will be disappeared, and the unit will stop running in Swing mode.

Note: The Swing function could be set up by wireless remote controller.

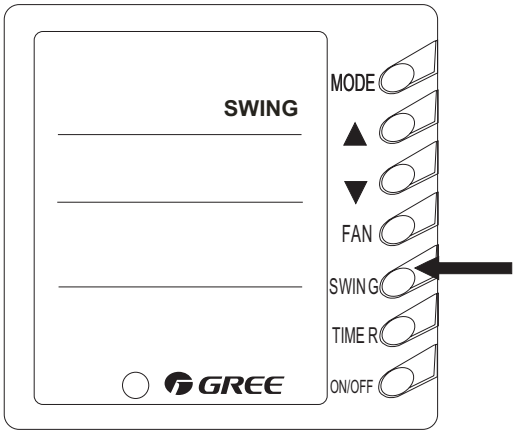


Fig.5

5) Running mode setup(Fig.6)

When press this button once, the operation mode will be changed as follow:

COOL → DRY → FAN → HEAT → AUTO

♦ At “COOL” mode, the “COOL” icon will light on, the current temperature should be set up lower than the ambient temperature. If the setting temperature is higher than the ambient temperature, the COOL mode will not start, only the fan is active.

♦ In “DRY” mode, the “DRY” icon will light on. The inner fan will run at low fan speed in a certain range. This DRY efficiency in this mode is more obvious than the one in COOL mode, and the power saving efficiency is better.

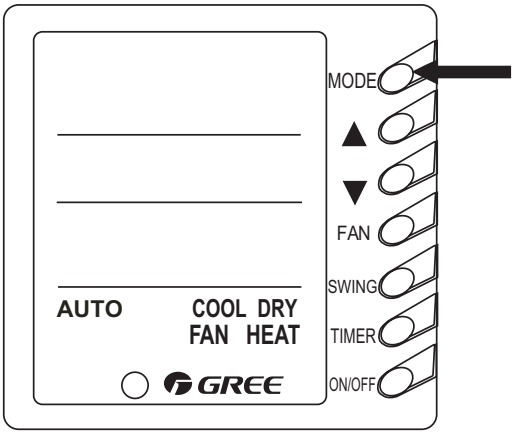


Fig.6

♦ In “HEAT” mode, the “HEAT” icon will light on. The setting temperature should be set up higher than the present temperature; if it is lower than the present ambient temperature, the HEAT mode is unavailable.

♦ In “FAN” mode, the “FAN” icon will light on.

♦ In “AUTO” mode, the “ AUTO” icon will light on, according to the ambient temperature, the unit will automatically adjust the running mode.

♦ In “HEAT” mode, when the outdoor temperature is lower and high humidity, and it frosted in outdoor unit, and the heating efficiency will be reduced. If it is in this case, the controller will start defrosting automatically, and displays “DEFROST” icon.

NOTE: There is no HEAT mode in the cooling only unit, after the power saving set up, the auto mode will be shielded.

6) TIMER setup (Fig. 7)

Timer on can be set if the unit is off and timer off can also be set if the unit is on. When unit timer setting status after pressing timer button, the word TIME will flicker, in which case users can press ▲/▼ button to increase or decrease time, and then press timer button again so that the timer function will be effective and the unit starts to count the time. If you want to quit this function, press timer button again. Setting time range is 0.5~24 hr.

NOTE: When the protection or malfunction happens after the timer on was set up, the time place will display the protection or the error codes, the timer button cannot be setup, but the time you have setup before is still available.

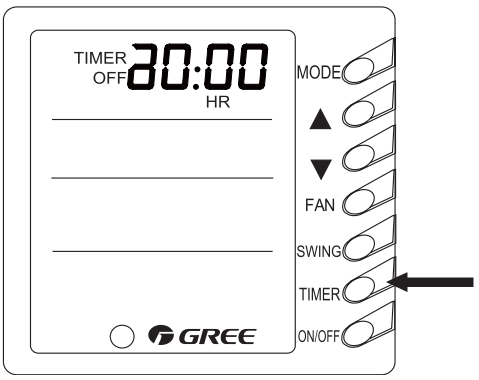


Fig.7

7) Energy saving setting (Fig. 8)

♦ Press Fan button and ▼ button simultaneously for 5s if the unit is off, energy saving menu will appear, in which case , the unit enters cool or dry energy saving mode for setting temp. With the word “SAVE+COOL” displayed. (If it’s the first time for setting, it will display original value:26℃). Then, press mode button onto heat energy saving mode for setting temp.. With the word “SAVE+HEAT” display originalvalue:20℃ . In the region of displaying setting temperature, set upper limit temp .and in the region of displaying ambient temp..Set lower limit temp. Switch them by pressing ON/OFF button and adjust them by pressing▲/▼button (the range is 13~30℃). Present setting temp. will be displayed and flicker; press Fan button and ▼button simultaneously for 5s to quit this function if Ti has been finished.

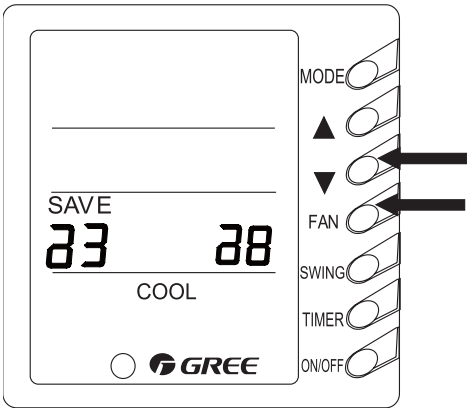


Fig. 8

♦ The word SAVE will be displayed in LCD at next startup of the unit if above setup has been finished. No matter by pressing button of the display or remote controller, the setting temp .can never be set to be higher than the temp.. Range set under energy saving mode before. For example, in fig.8, the lower limit cooling temp. under energy saving mode is 23℃ and upper limit temp is 28℃ ,so the user only set cooling temperature in the range of 23~28℃ .

♦ If the same limit temperature is set, the unit is only run under corresponding mode at this setting temp..

♦ Press Fan button and ▼ button simultaneously for 5s quit this function, if it has been effective, but the setting value can not be cleared, which will be as the original value of next setup.

♦ If the power is off, energy saving setup will be memorized, which continues after the power is on next time.

NOTE: Upper limit temp. can not be set to be lower than that of lower limit, or lese the higher temp. will be defaulted to be upper limit and the lower one to be lower limit. If there is no operation after the energy saving interface appears in 20s of the system responding the last press of one button, the system will trip off the menu.

8) Malfunction display(Fig.9)

If malfunction happers when the sysytenm is running, the word ERRIR with the error code will be displayed on displayed . For example, in the right figure, it indicate malfcuntion of exaporator temp . sensor. The codes meaning is shown as fllow.

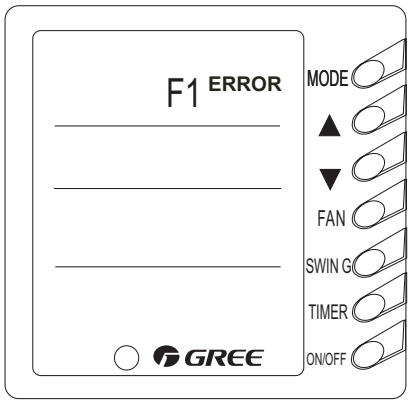


Fig.9

Malfunction codes	Malfunction
E0	Water pump malfuunction
E6	Communication malfunction
E9	Water- full protection
F0	Ambient temp. sensor malfunction of indoor unit main board
F1	Evaporator temp. sensor manlfunction
F5	Ambient temp.sensor malfunction of displayer
EH	Auxiliary electric heater malfunction

NOTE: If EH malfunction happens, please cut off the power of the units immediately and ask professionals for help.

9) Key lock (Fig.10)

♦ Press ▲+▼ button simultaneously for 5s, EE will be displayed in the region of displaying seting temp. ,and all buttons are in locked status. Unlock them by pressing the two buttons for 5s again.

♦ Monitoring the manual controller.

♦ The manual controller can be congtrollde by connecting with centralized or long- displayce montitoring.

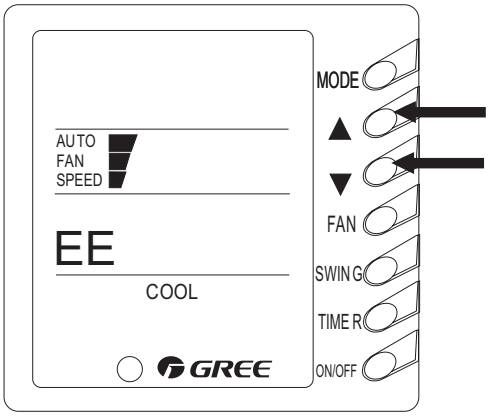


Fig.10

10) Connecting with centralized controller(Fig.11)

♦ The centralized controller can control start or stop of the manual controller. It can also shield the funciotn of manual controller are inffectve, and CC will be displayed in the fegion of displaying setting temp., which can recover by centralized controller.

♦ Once powered off, the centralized controller will not memorize the information about shield function.

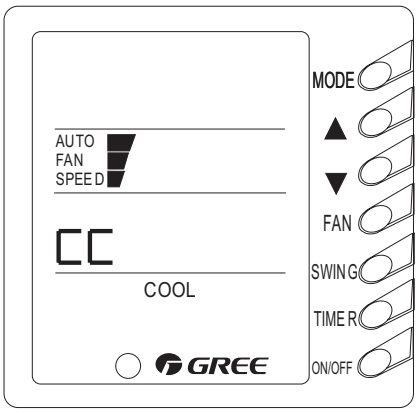


Fig.11

11) Connecting with long-distance monitoring(Fig.12)

♦ Connected with manual controller, long-distance monitoring not only can control fan speed, temp.,mode ,ON/OFF of the unit but also can shield all funtions or one or some of the funtions of fan speed, temp., mode, ON/OFF of manual controller, etc. If all the functions of the manual controller are ineffective, and CC will be displayed in the region of displaying setting temp. If one or some of the functions fo fan speed, temp., and mode, ON/OFF of manual controller are shield, corrsponding buttons of manual controller and remote controller are ineffetive,but others are effetive , and nothing will be displayed. Only by long-distance monitoring or pressing MOED+▼ buttons for 5s can the shied funcions be released. Above shield functions can be memorized after the power is off.

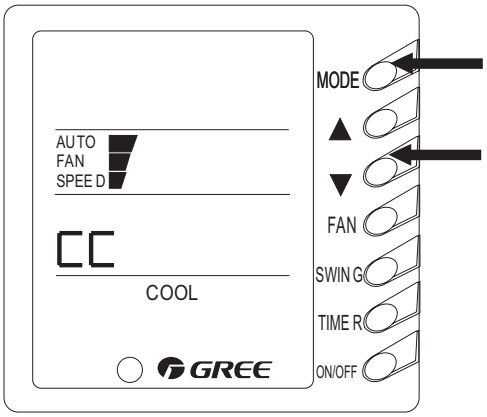
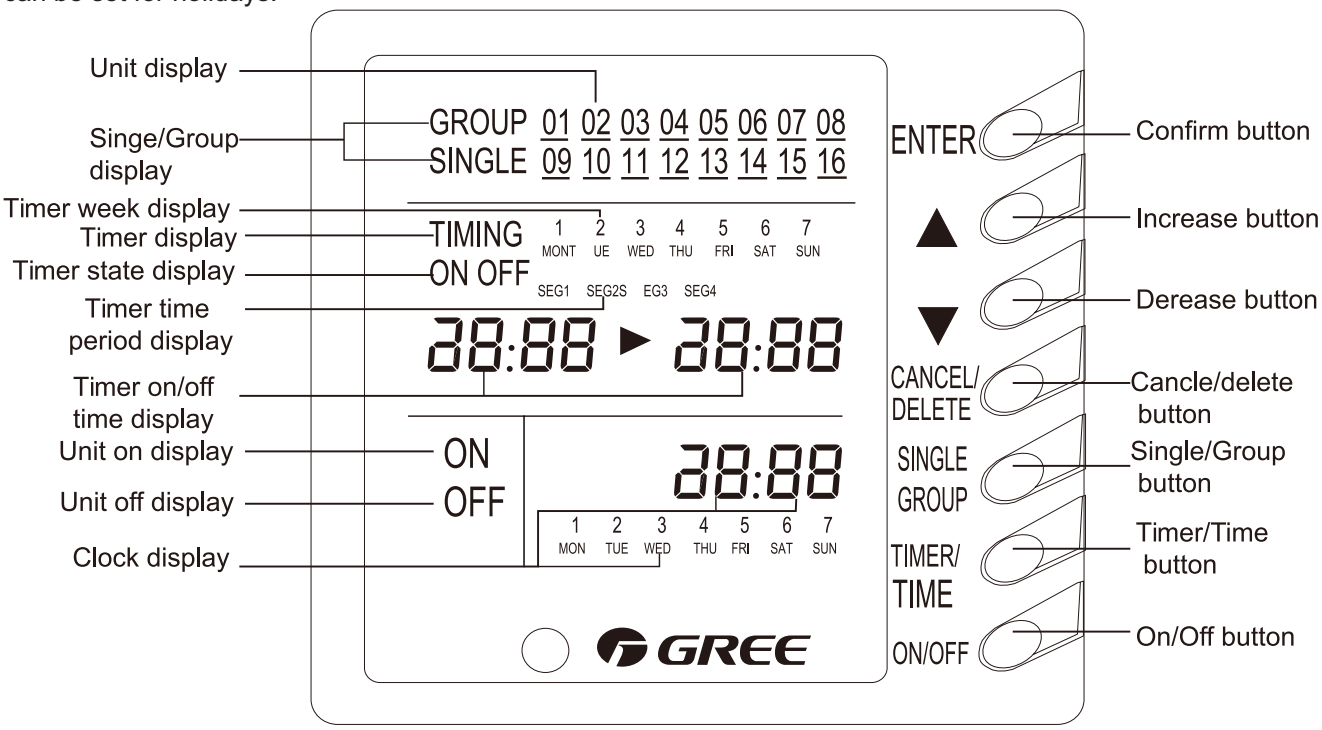


Fig.12

12) Weekly Timer (optional)

♦ Week Timing controller (With Centralized Control Function)

♦ Centralized Control and Week Timer Function Function: The centralized and the weekly timer are integrated in the same wire controller. The system has both the centralized controller and the week timing functions.Up to 16 sets of units can be controlled simultaneously by the centralized controller (weekly timer). The weekly timer has the function of invalidating the lower unit. The weekly timing function is able to realized four timing ON/OFF periods for any unit every day, so as to achieve fully Automatic operation. No timing control can be set for holidays.

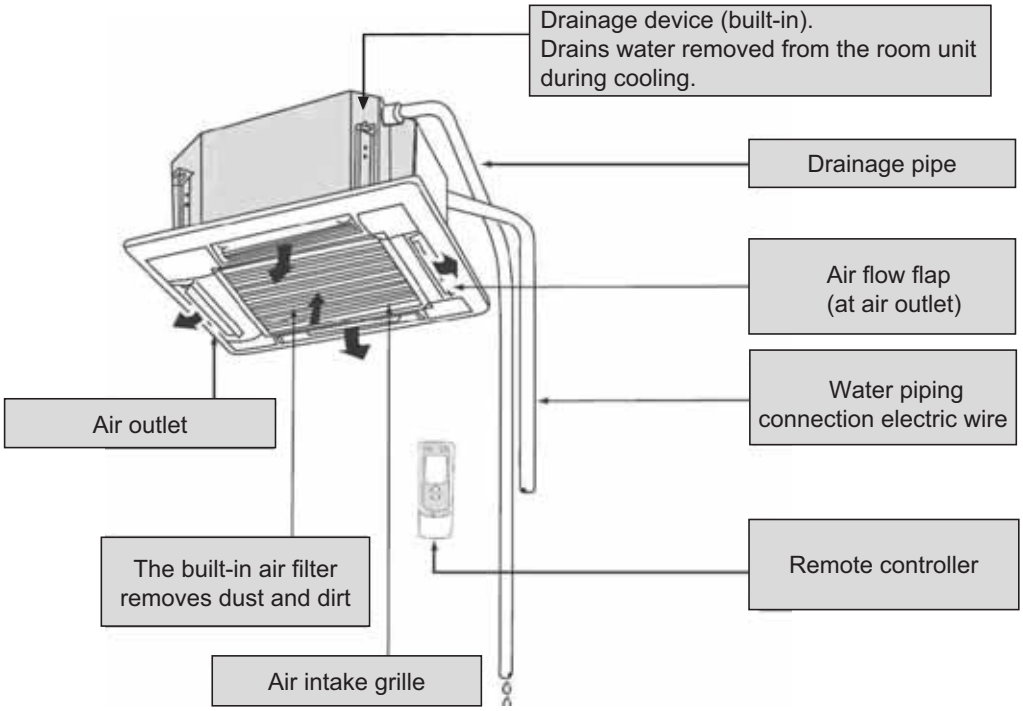


♦ This WEEKLY TIMER adopts 485 mode to communicate with manual control of every duct precast type unit, and it can control up to 16 units . Adopting 2-core teisted-par wire, the longest communication distance of this TIMER is 1200m, After connected to power, the WEEKLY TIMER can display all connected units (sequence of unit is determined by code switch if manual control of every duct type unit). On and off every duct type unit can be done through the Timer On/Off of this WEEKLY the button shield operation and temperature adjustment and other operations are done through the manual control at every unit.

INSTALLATION

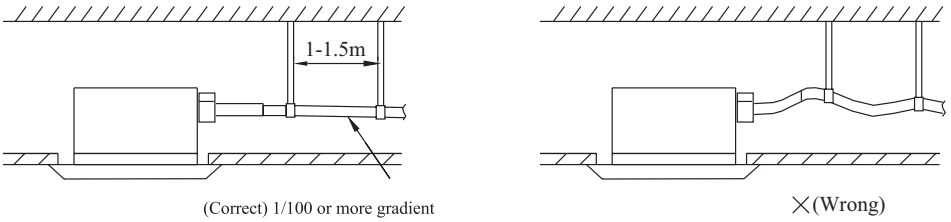
INSTALLTION

1. NAMES AND FUNCTIONS OF PARTS

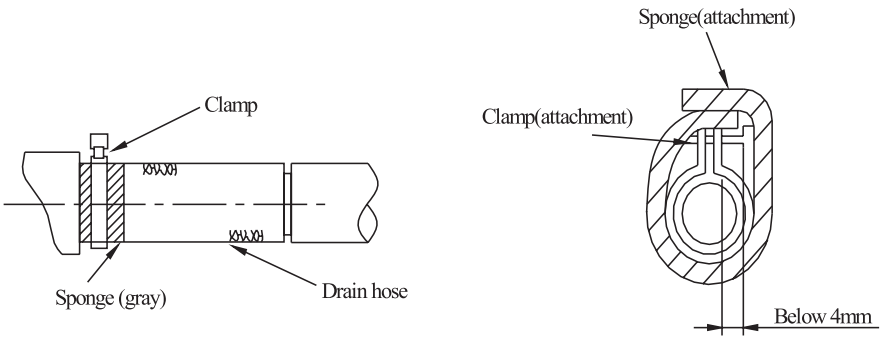


2. DRAINAGE PIPE

1. The diameter of the drain pipe should be greater than of equal to the diameter of the connecting pipe [vinyl tube, pipe size: Outer diameter 25mm (outer dimension)].
2. Keep the drainage pipe short and sloping downwards at a gradient of at least 1/100 to prevent air pockets from forming.
3. If the drainage hose cannot be sufficiently set on, add a drainage raising pipe.
4. To keep the drainage hose from sagging, keep space between hanging hooks at 1~1.5m.

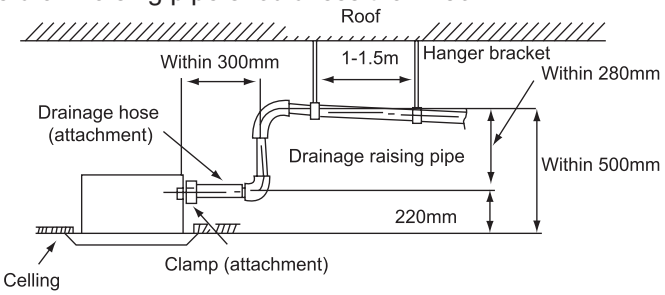


5. Use the drain hose and clamp attached. Insert the drain hose to the drain vent, and then tighten the clamp.
6. Entwine the big sponge on the clamp of drain hose to insulate heat.
7. Heat insulation should be done to indoor drain hose.

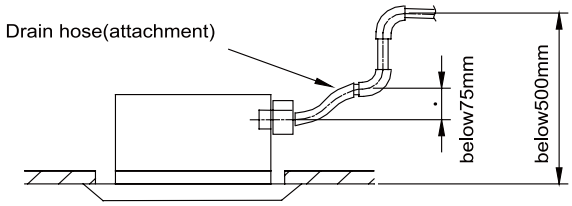


3. PRECAUTIONS FOR DRAINAGE RAISING PIPE

The install height of the drain raising pipe should less than 280mm.



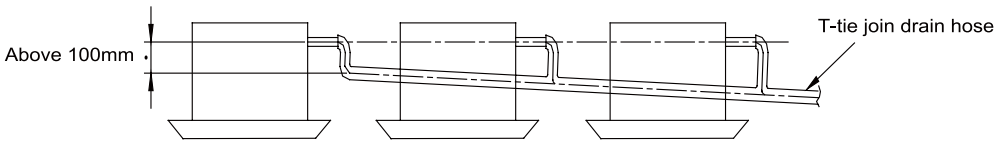
The drain raising pipe should form a upright angle with the unit, and distance to unit should not beyond 300mm.



3..1 Instruction

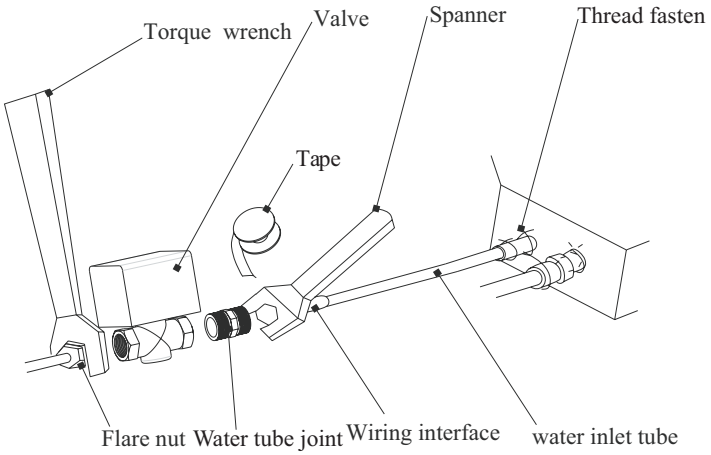
♦ The slant gradient of the attached drain hose should be within 75mm so that the drain hole doesn't has to endure the unnecessary outside force.

♦ Please install the drain hose according to the following process if several drain hoses join together.



The specs of the selected join drain hose should fits the running capacity of the unit

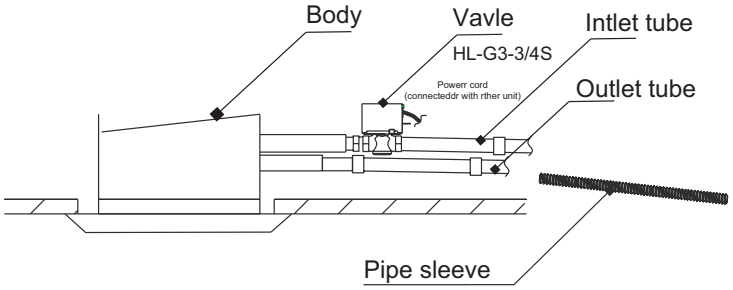
♦ The installation of the motorized valve should be done according as .Firstly connect one end of the tube joint with the water inlet tube of the unit, then connect the other end with the motorized valve, and lastly connect the motorized valve with the flare nut . During the installation, both the torque wrench and the spanner should be used and the moment of torque should be within 90 N.m. Besides, a secure connection should be guaranteed.

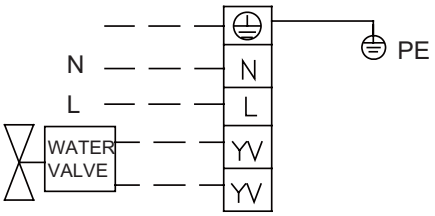


♦ Both the tube joint and the motorized valve are G3/4" threaded. Prior to the connection, it is recommended to wrap the tacky tape on the thread for two or three cycles for better sealing effects .

♦ After the tube joint, motorized valve, water inlet tube, water outlet tube are connected reliably, start the water pump of the outdoor unit to check if they leak or not.

♦ What should be done lastly is wrapping sponge around the motorized valve and the tube for heat insulation.

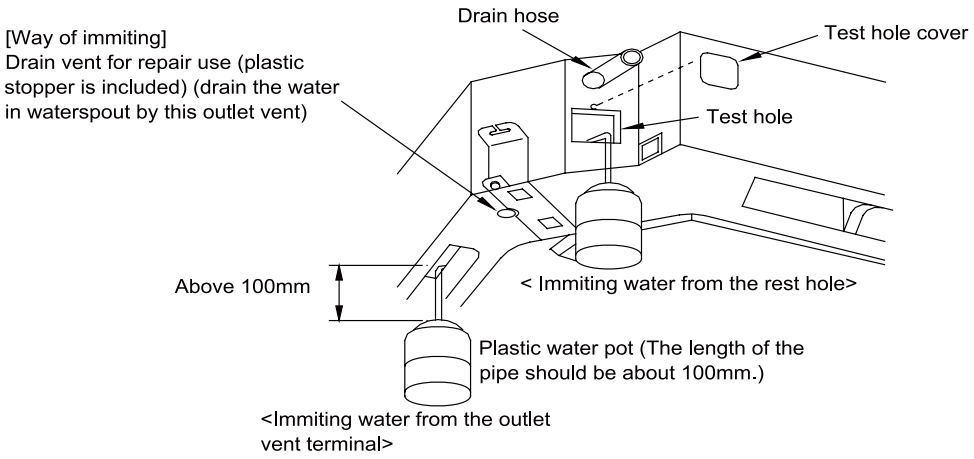




♦ Check the smoothness of drain after installation.

♦ Check the drain state by imitating 600cc water slowly from the outlet vent or test hole.

♦ Check the drain in the state of refrigerating after installation of the electric circuit.



Warning: Before obtaining access to terminals, all supply circuits must be disconnected.

4. TRIC WIRING

1. All field supplied parts and materials must conform to local laws and regulations.
2. For electric wiring, refer to WIRING DIAGRAM attached to the unit body.
3. All wiring must be performed by a skilled technician.
4. A circuit breaker capable of shutting down power supply to the entire system and which have at least mm contact separation in each jole must be installed in the fixed wiring.
5. Earth properly.
6. Wiring must conform to national laws and regulations.
7. The fixed wiring must be installed with a protector with no more that 30 mA leakage current.
8. If the supply cord is damaged, it must be replaced by the manufactory or its service agents or a similarity qualified person in order to avoid a hazard.

4.1 Wiring of unit and the controller

4.1.1 Wiring of the indoor unit

Remove the control box lid, pull the wires inside through rubber bush and wiring according to the WIRING DIAGRAM, then tighten it with clamp.

Wiring of the controller

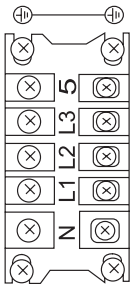
♦ Remove the control box lid, pull wires inside through rubber bush and connect to the controller.

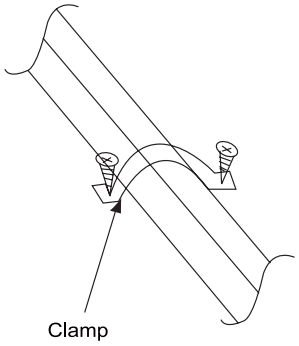
♦ Wrap the wire with sealing pad.

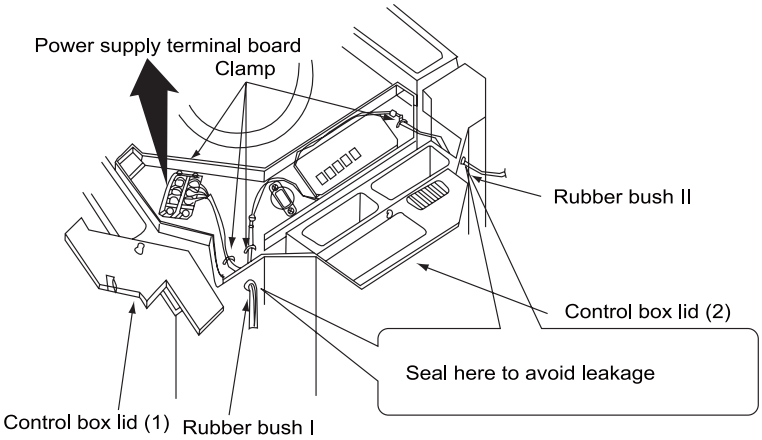
♦ After wiring, tighten it with clamp and fix the control box lid.

♦ Heating and cooling: connect the rubber wire (5-cords) to the power supply terminal board in properly.

♦ Cooling: connect the rubber wire (3-cords) to the power supply terminal board properly.







Precautions: Be sure to connect the indoor unit and outdoor unit at right poles.

5. INSTALLATION OF PANEL

♦ Set the panel to the indoor unit body by matching the position of the swing flap motor of the decoration panel to the piping position of the indoor unit as shown in fig.4.

♦ Install the decoration panel.

1. Hang the latch, which is located on the opposite side of the swing flap motor on the panel, temporarily to the hook of the indoor unit. (2 Positions)
2. Temporarily hang the remaining 2 latches to the hooks on the sides of the indoor unit.(be careful not to let the swing motor lead wire get caught in the sealing material.)
3. Screw all 4 hexagon head screws located right beneath the latches in approximately 15mm.(panel will rise)
4. Adjust the panel by turning it to the arrowed direction in Fig.4 so that the ceiling opening is completely covered.
5. Tighten the screws until the thickness of the sealing material between the panel and the indoor unit.
6. Body is reduced to 5~8 mm.

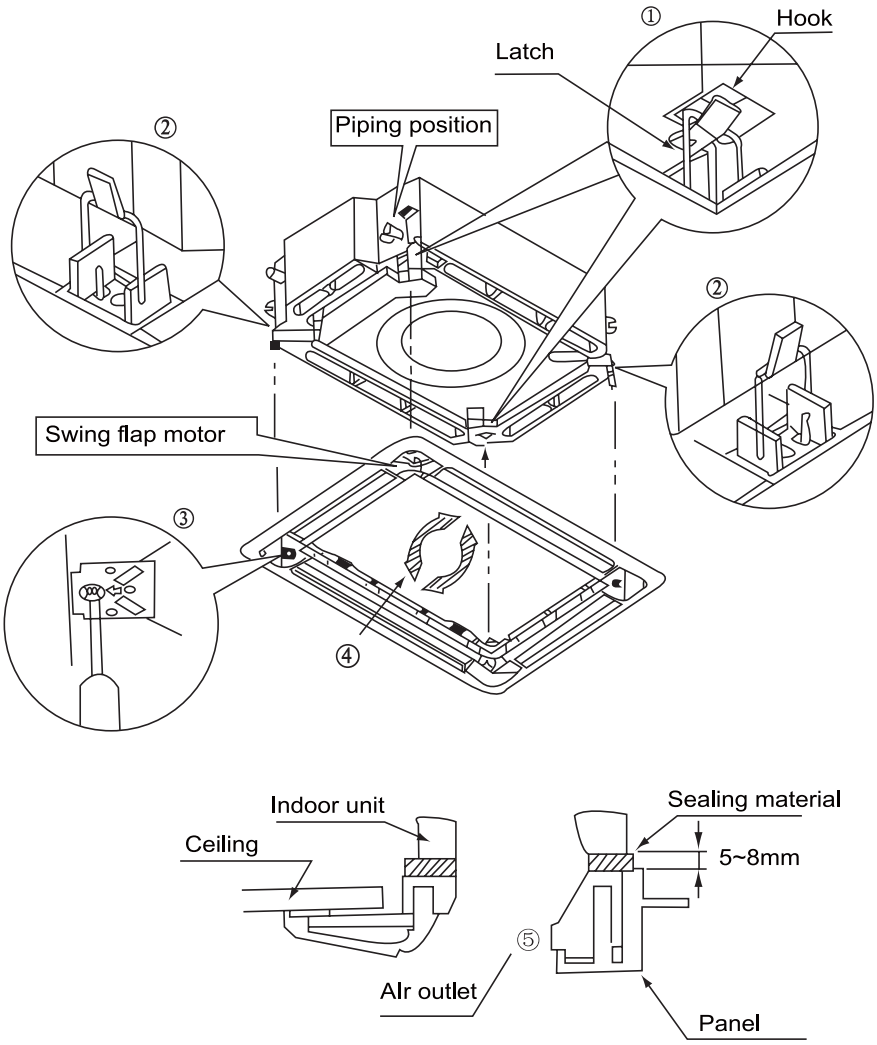


Fig 4

5.1 Precautions

Improper screwing of the screws may cause the troubles shown in Fig.5

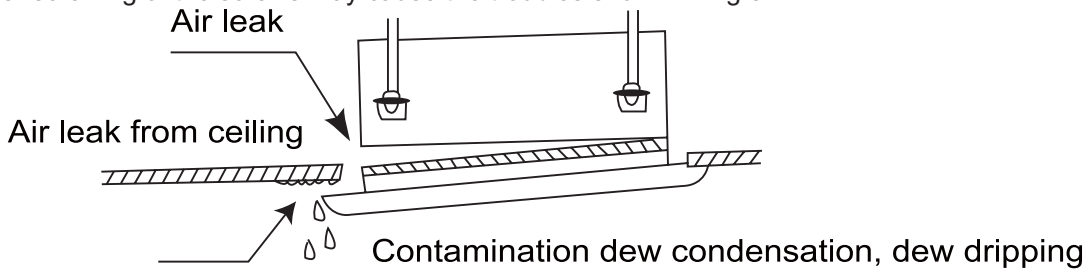


Fig.5

If gap is still left between the ceiling and the panel after screwing the screws, readjust the height of the indoor unit body (Refer to Fig.6)

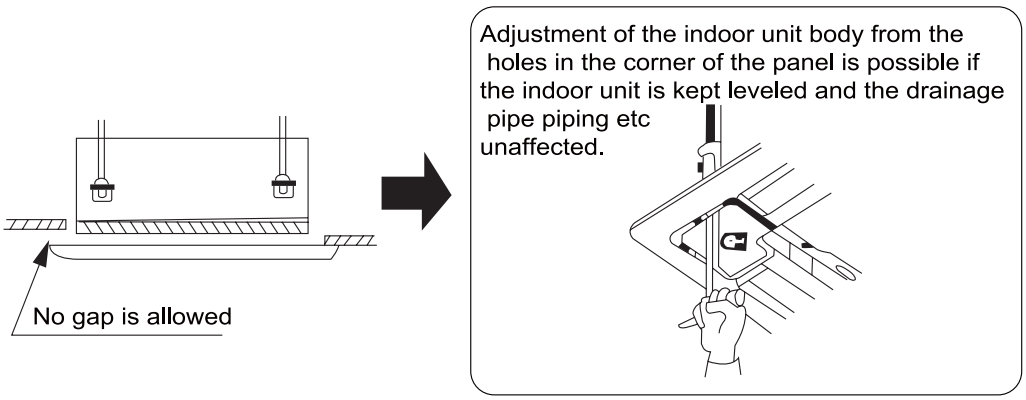


Fig.6

5.2 After fixing be sure no gap left between the ceiling and the panel

Wiring of the decoration panel.

Connect the joints for swing flap motor lead wire (at 2 places) installed on the panel (Refer to Fig.7)

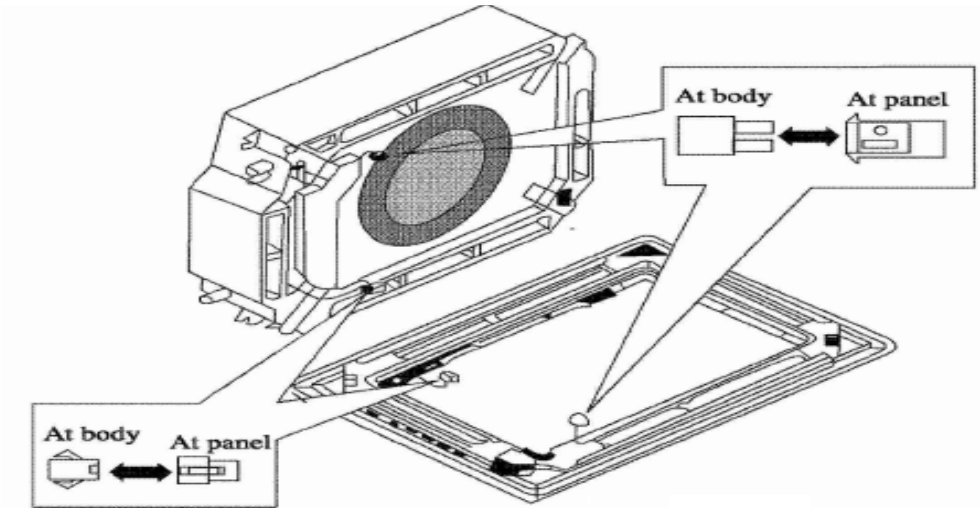


Fig.7

MAINTENANCE

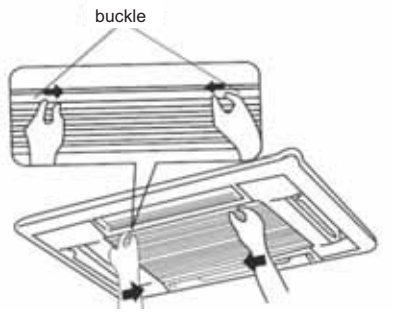
MAINTENANCE

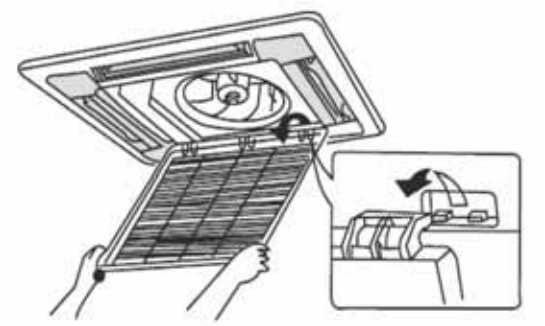
1.TROUBLESHOOTING

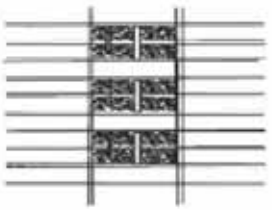
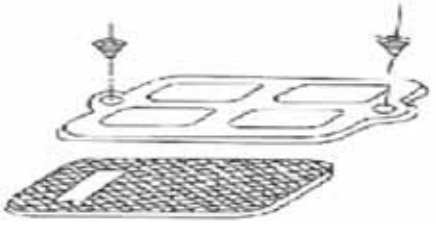
Please pull out the power plug after you used the air condition.

Warning:

1. Pull out the power plug before cleaning.
2. Do not splash water directly.

<table>
<tr><th colspan="2">How to clean the air filter</th></tr>
<tr><td>1. Open the suction grille.
2. Slide both knobs simultaneously as shown and then pull them downward slowly.</td><td> 
</td></tr>
<tr><td>1. Remove the air filters.
2. Slide knobs on the back of the suction grille out ward and remove the air filter.
3. Then remove three air cleaners on it.</td><td></td></tr>
<tr><td rowspan="2">● Clean the filter
Use vacuum or wash the air filter with water when the air filter is very dirty, use neutral detergent and water. Let the filter dry naturally at shady place.
Note:
1. Do not clean with hot water.
2. Do not dry over fire.
3. Do not run the air condition without the air filter.
4. The suction grille must be opened by skilled personnel.</td><td>  </td></tr>
<tr><td>  </td></tr>
<tr><td>● Fix the air filters
1. Fix three air-cleaner on the air filter and then fix the air filter to the suction grille by hanging it to the projected portion above suction grille.
2. Set air filter by sliding the knob on the
back of the suction grille inward.</td><td>  </td></tr>
<tr><td>Shut the suction grille.</td><td>Refer to step.1</td></tr>
</table>

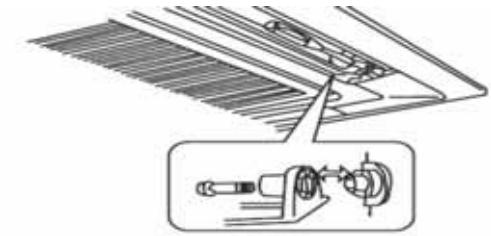
How to clean to the suction grille	
1. Open the suction grille	See step 1 of “How to clean the air filter”.
2. Remove the air filters	See step 2 of “How to clean the air filter”.
3. Remove the suction grille Open the suction grille at 45°and then lift.	
4. Wash with water. When the suction grille is very dirty, use soft brush and neutral detergent. Shake water and dry in a shady place.	
5. Fix the suction grille.	Refer to step 3.
6. Fix air filter.	See step 4 of “How to clean the air filter”.
7. Close the suction grille.	Refer to step 1.

Changing air cleaner	
1. Open the suction grille	See step 1 of “How to clean the air filter”
2.Remove the air cleaner Remove the air filter and remove the air cleaner after unscrewing.	
3. Take off packing bag and put in new static electricity fiber filter, then fix them on the air filter.	
4. Fix the air filter	See step 4 of “How to clean the air filter”
Air cleaner functions and service cycle time.	
Absorbs bad smell in air such as carbon monoxide carbon dioxide, benzyl, gasoline and so on. Absorbs harmful objects bigger than 1.0 um in air such as dust, germ, virus and so on. It can be used for about half a year to one year.	

How to clean the air outer and case.

- Clean with soft cloth or use water and neutral detergent.
- Do not use gasoline, benzene, thinner, polishing powder, liquid insecticide, which may cause discoloring or warping.
- If the air flow flap is very dirty, you may remove it to clean as shown below.

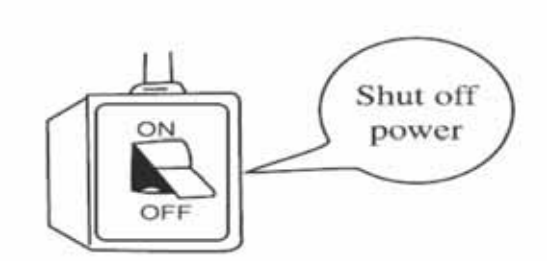
Detach and fix the flap.

1. Detach the flap Loosen the screws on the sides of the flap clean with soft cloth.	
2. Fix the flap Set the ribs on the sides of the air outlet to the slit of the flap and then screw together to fix the flap.	

Before starting the air conditioner for the first time in the season.

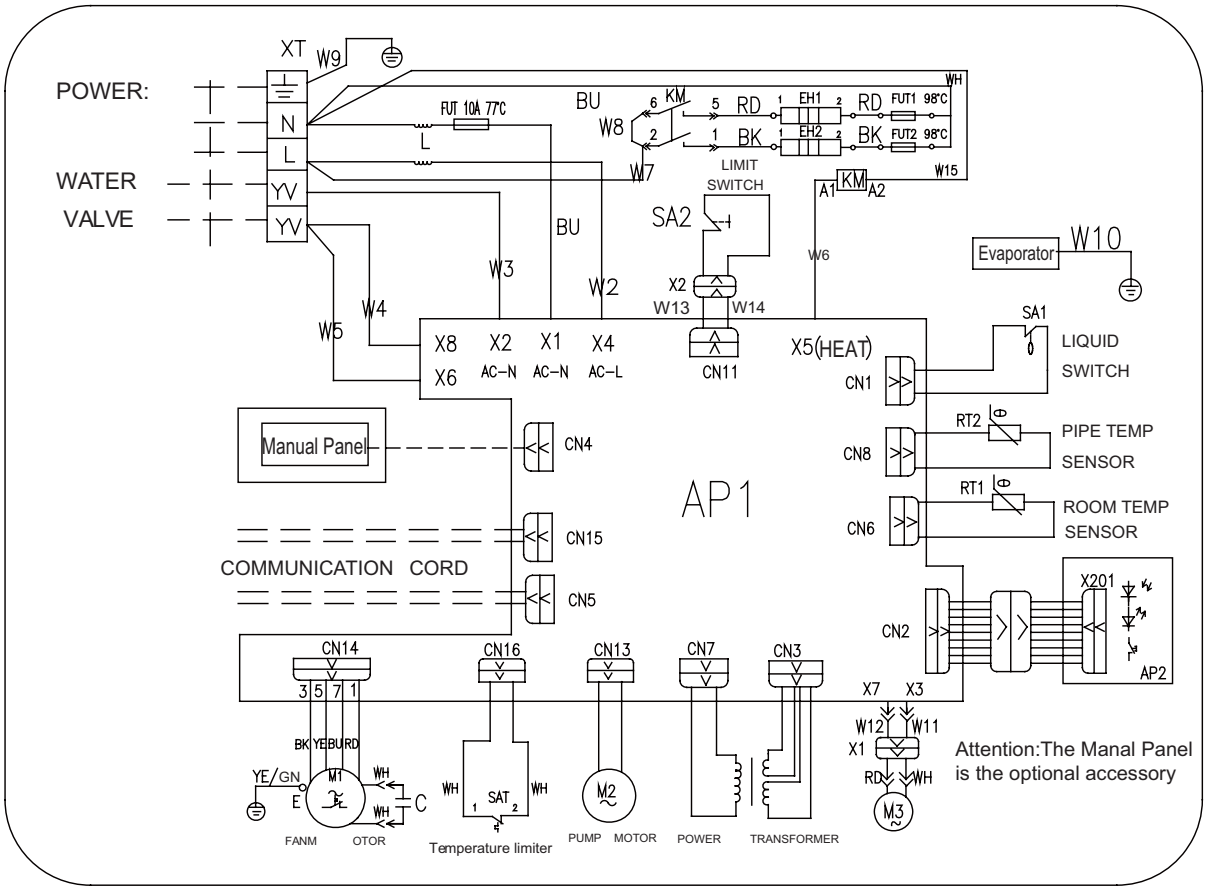
1. Check to make sure no objects obstructing the intake and outlets parts on both the indoor and outdoor units. 2. Check to make sure ground wire is connected and that is not damaged. 3.Check to make sure air filter has been cleaned. 4. Turn on the power 6 hours before starting the air conditioner.	

End of season cleaning

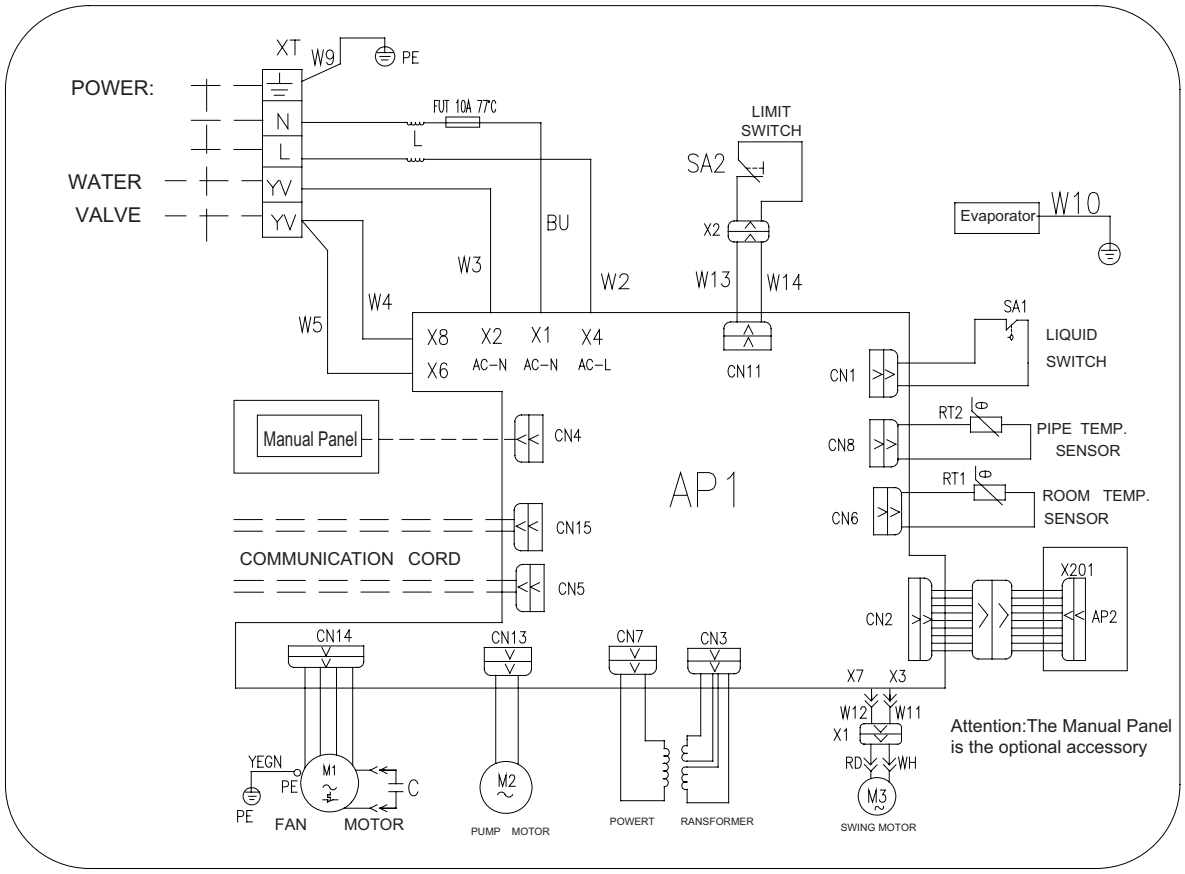
1. Clean the filter and the body of the unit. 2. Turn off power. 3. Clear outdoor of dust. 4. If there is any rust in the outdoor unit, this should be painted over to prevent the rust from spreading.	

2. WIRING DIAGRAM

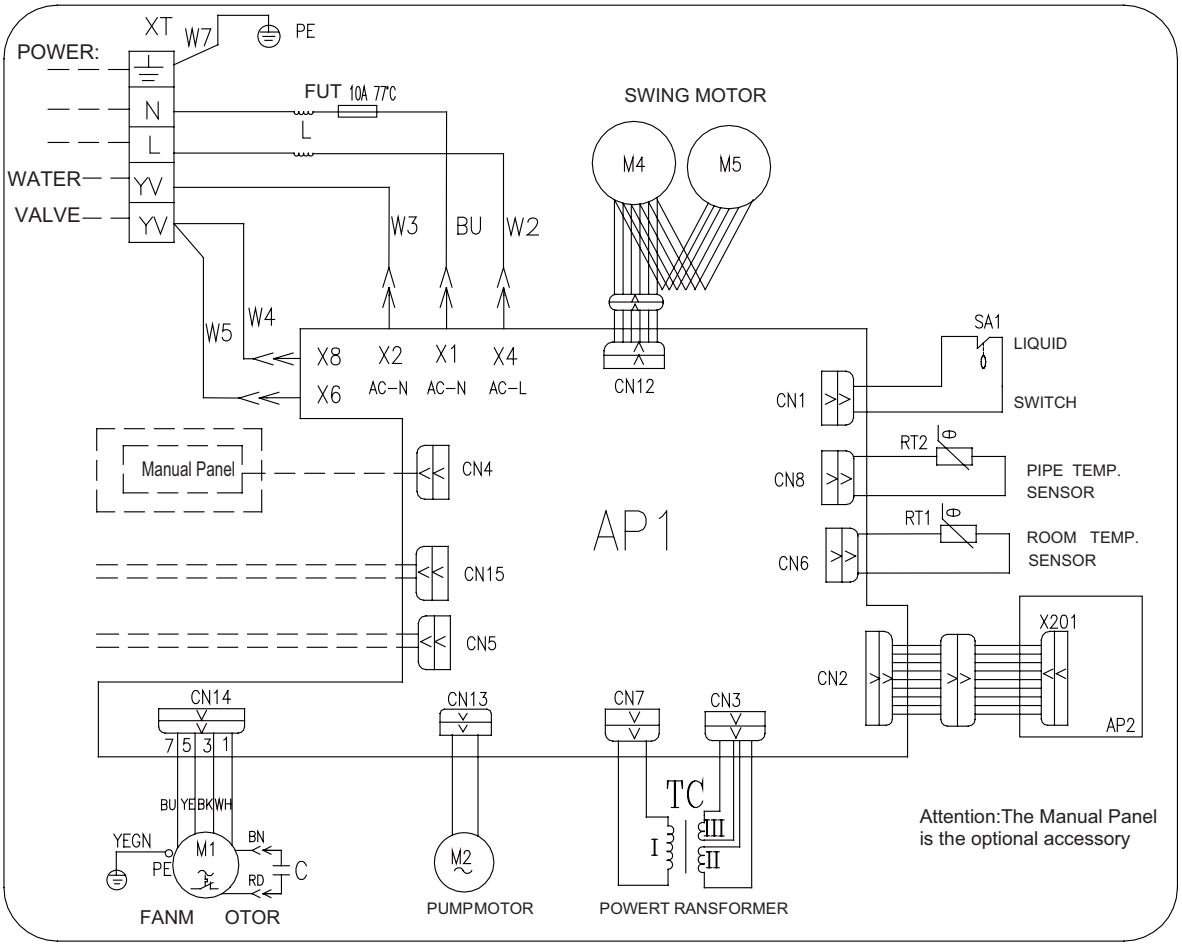
FP-8XD-E; FP-10XD–E; FP-12.5XD-E; FP-14XD-E;FP-14XD-E;FP-18XD-E.



FP-8XD/A-E; FP-10XD/A–E; FP-12.5XD/A-E; FP-14XD/A-E;FP-16XD/A-E; FP-18XD/A-E.

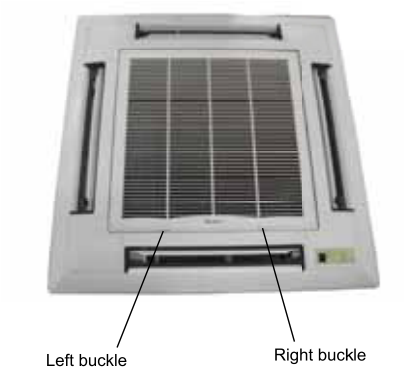
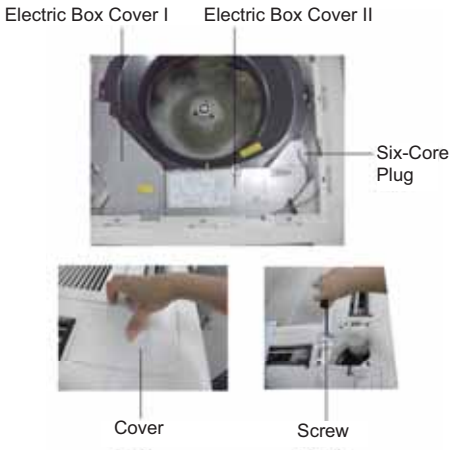
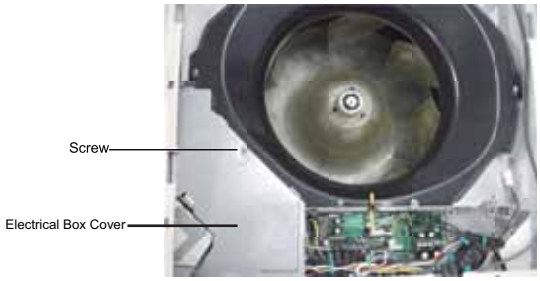
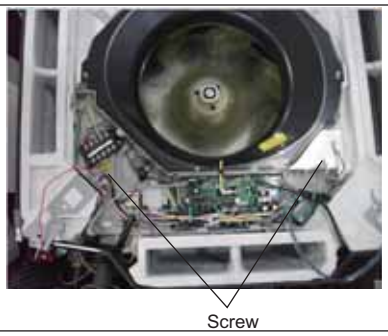


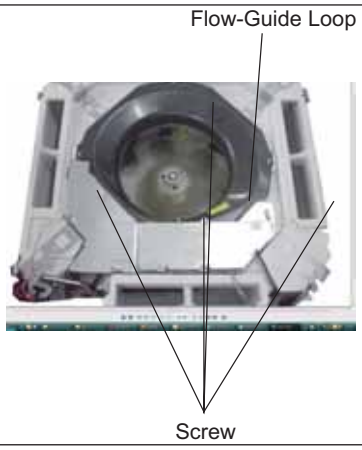
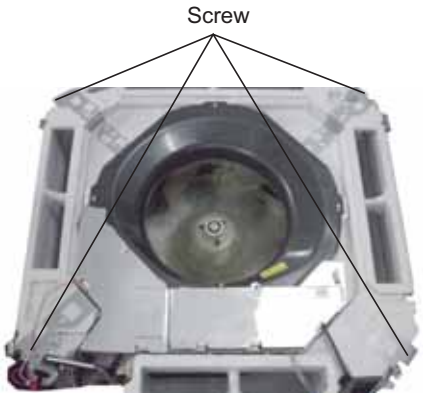
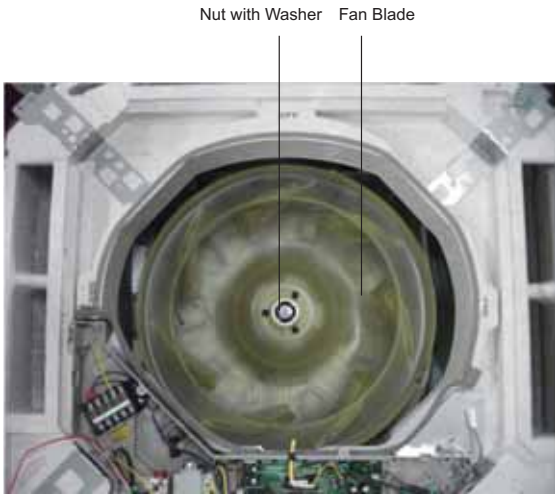
Model; FP-51XD –E; FP-68XD –E.

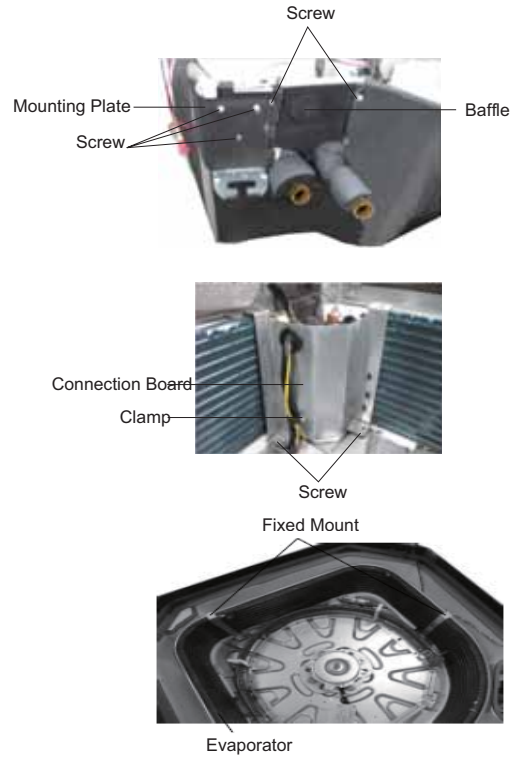
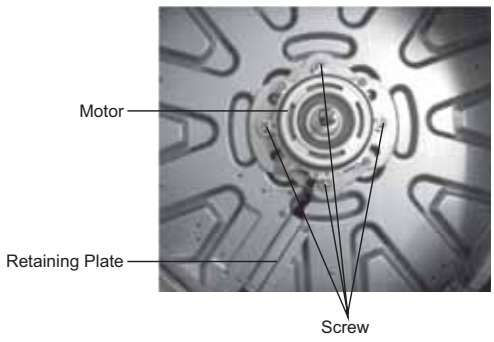
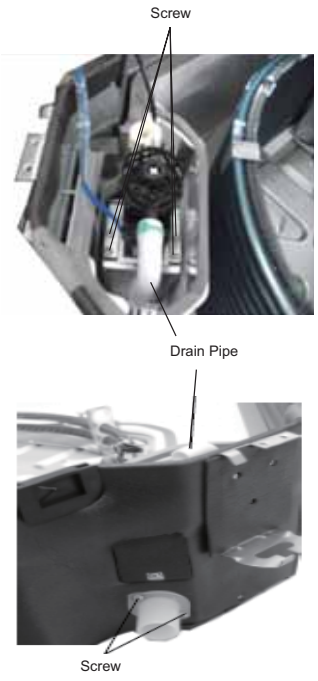


3. DISASSEMBLY AND ASSEMBLY PROCEDURE OF MAIN PARTS

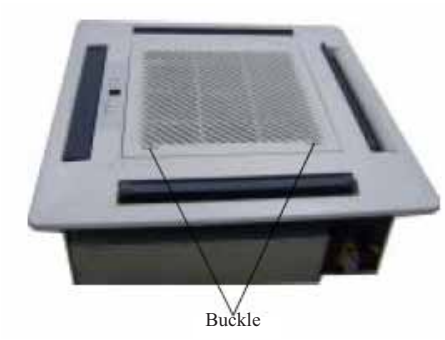
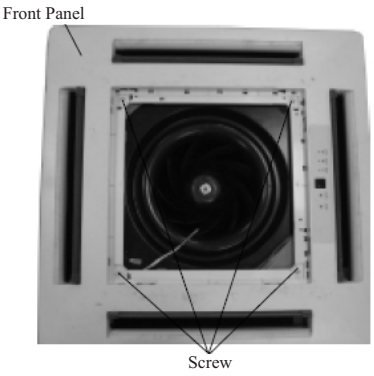
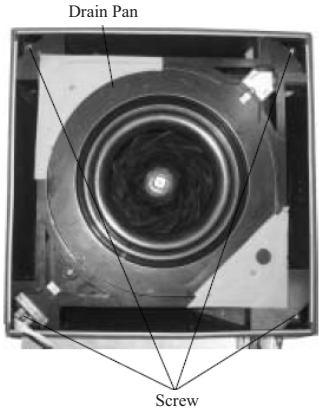
Model;FP-8XD-E; FP-10XD–E; FP-12.5XD-E; FP-14XD-E;FP-16XD-E; FP-18XD-E;P-8XD/A-E; FP-10XD/A–E; FP-12.5XD/A-E; FP-14XD/A-E;FP-16XD/A-E; FP-18XD/A-E.

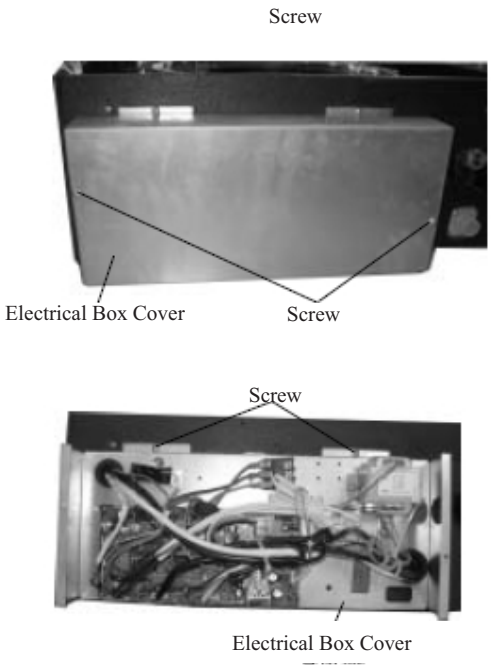
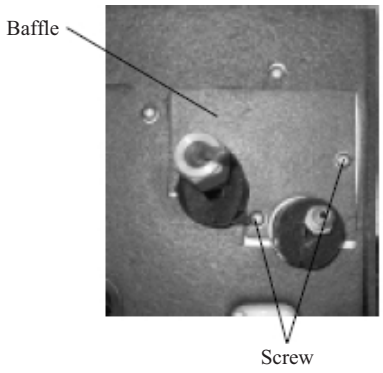
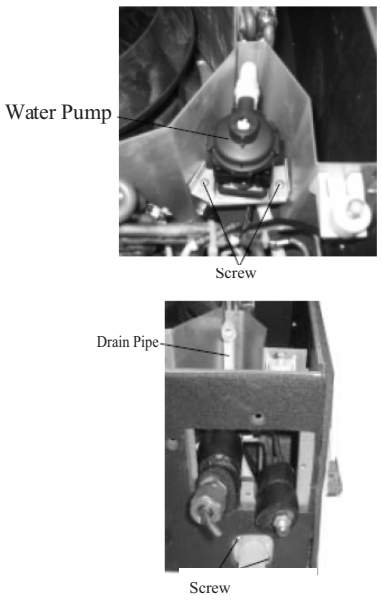
Disassembly Procedures of Indoor Unit		
Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1.Disassemble the grille of the front panel		Push the left and right buckles on the grille of the front panel toward the center and meanwhile pull it upward until it forms a 45℃ angle, after that pull the grille backward.
2. Disassemble the front panel.		Disconnect the power cord of the fan motor and the plug of the limit switch. Open the cover Ⅱ of the electric box and disconnect the six-cord plug, then remove covers on four corners away, after that, loosen the screws to the right position and turn the front panel counter clockwise and lastly pull it out upward.
3. Disassemble the drain pan.		Loosen the screws on the cover Ⅰ of the electrical box and then open the cover.
4.Disassemble the electrical box		Loosen two screws fixing the electric box and then disconnect each wiring terminals, after that take the electric box out upward.

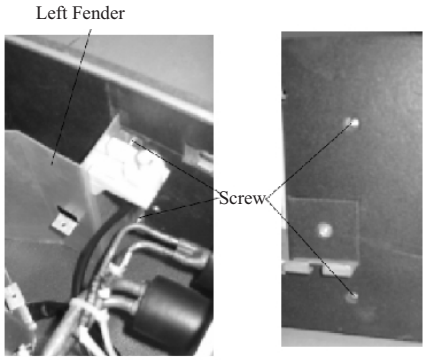
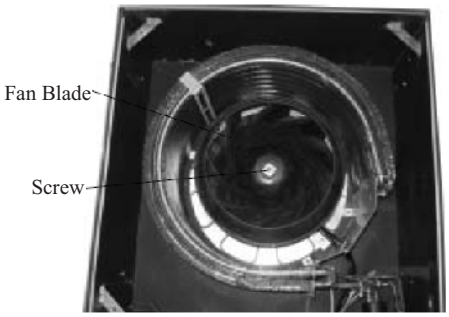
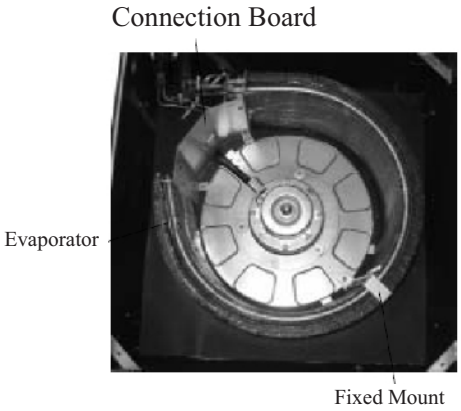
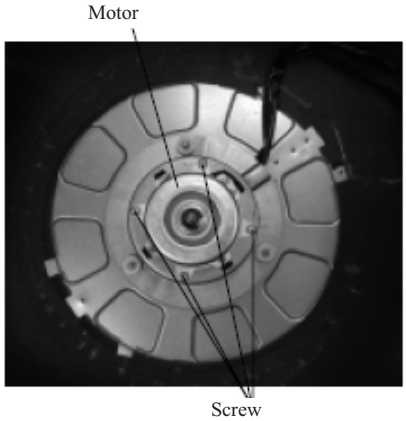
5.Disassemble the flow-guide loop		Loosen the screws fixing the flow-guide loop and then turn it counter clockwise.
6.Disassemble the drain pan		Loose the screws on the drain pan and take it out upward.
7.Disassemble the fan blade		Loosen the screws on the fan blade and then take it out upward.

8. Disassemble the evaporator		Loosen the screws on the mounting plate and take it out. Loosen the screws on the baffle of the pipe outlet, and then press it downward to pull out the buckles on both side, after that, take the baffle away. Loosen the screws and clamps on the connection board of the evaporator, disconnect the earth lead, and then take the power cord of the motor, electric heater and earth lead out through the wire-cross hole, after that loosen the screws on the fixed mount and remove it away, finally take the evaporator out upward.
9. Disassemble the motor		Loosen the screws on the retaining plate and the screw bolts on the motor, after that, take the motor out.
10. Disassemble the water pump and the drain pipe		Loosen four screws fixing the water pump, disconnect the water pipe of the pump, take the mounting bracket away, then loosen these two screws fixing the water pipe, after that, take the water pipe away.

FP-51XD –E; FP-68XD –E

Remark: Make sure that the unit is stopped running and power supply is cut off before removal of the motor.		
Process	Pictorial View	Handling Description
1. Disassemble the grille of the front panel		Push the left and right buckles on the grille of the front panel toward the center and meanwhile pull it upward until it forms a 45℃ angle, after that pull the grille backward.
2.Disassemble the front panel		Disconnect the power cord of the fan motor and the plug of the limit switch. Open the cover Ⅱ of the electric box and disconnect the six-cord plug, then remove covers on four corners away, after that, loosen the screws to the right position and turn the front panel counter clockwise and lastly pull it out upward.
3. Disassemble the drain pan		Loose the screws on the cover Ⅰ of the electric box and then take the cover away.

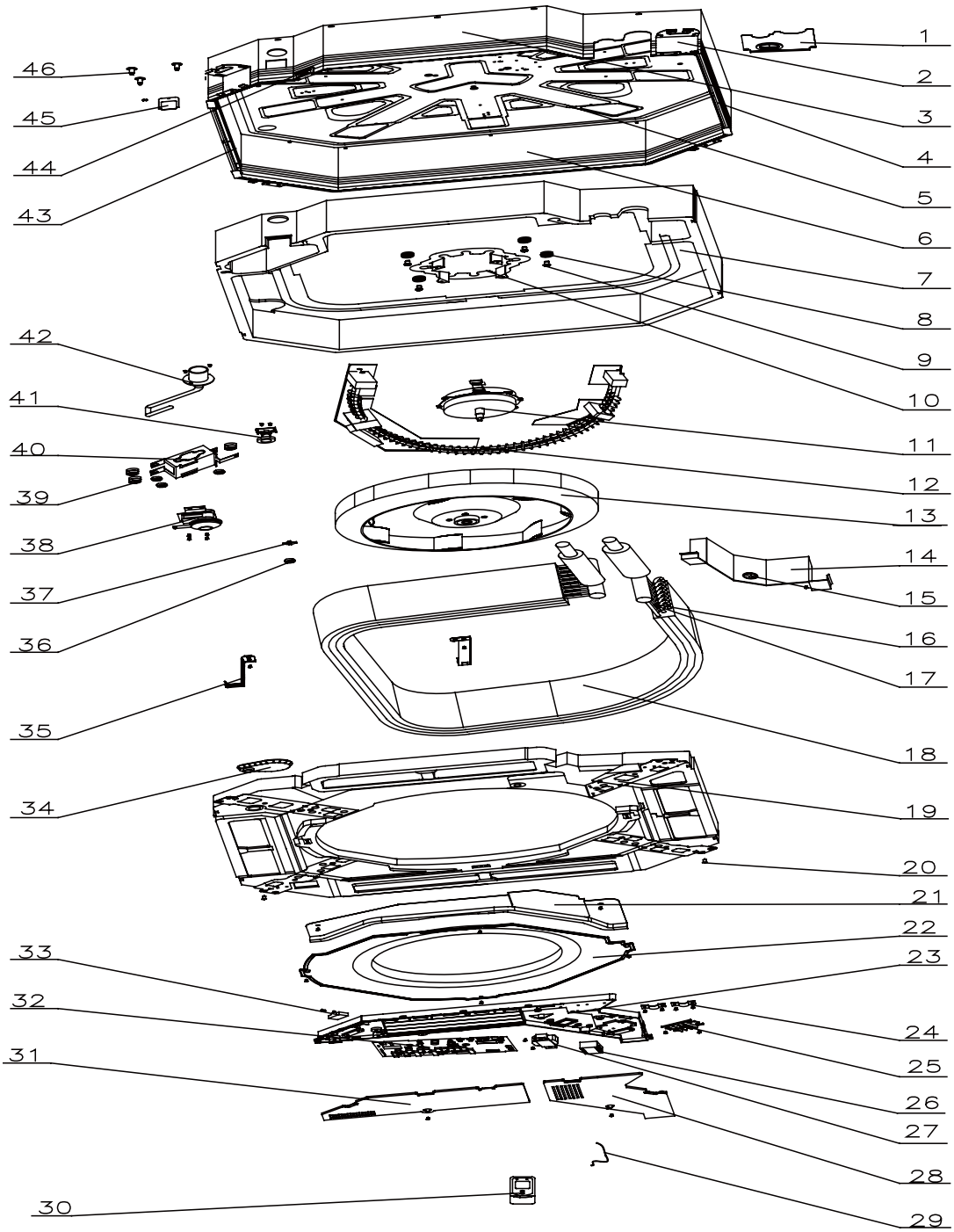
4. Disassemble the electrical box		Loosen two screws on the cover of the electric box and then remove it away. Disconnect the wiring terminals of the motor and the temperature sensing bulb, then loosen two screws fixing the electric box, after that, remove the electric box away.
5. Disassemble the baffle at the pipe outlet.		Loosen two screws on the baffle and take it out by turning it upward.
6. Disassemble the water pump		Loosen the screws fixing the drain pan and then take the it out upward.

7. Disassemble the left fender		Loosen two screws on the left fender and then take it out upward.
8.Disassemble the fan blade		Loosen the screws on the fan blade and then take it out.
9.Disassemble the evaporator		Loosen the screws on the connection board and the fixed mount of the evaporator, and then remove them away, after that, take the evaporator out.
10.Disassemble the motor		Loosen four screws fixing the motor and take the motor out.

4. EXPLODED VIEWS AND SPARE PART LISTS

Model: FP-8XD-E; FP-10XD–E; FP-12.5XD-E; FP-14XD-E;FP-16XD-E; FP-18XD-E.

Exploded Views:



FP-8XD-E (EM52000050)

1	Tube Exit plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt M6	70212711	4
10	Motor Support	01702701	1
11	Motor FN35B	15012703	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10312705	1
14	Evaporator Linkage	01074042	1
15	Cable-cross Loop	76512701	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01127104	1
19	Water Tray Assy	20182701	1
20	Rubber Stem	76712701	1
21	Electric Base Plate	01412722	1
22	Flow-guide Loop	10372701	1
23	Electric Box	20102701	1
24	Wire Clamp	71010102	4
25	Terminal Board	42011142	1
26	relay	44010206	1
27	Transformer	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30512506	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010026	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072703	1
36	Nut with Washer M6	70310012	1
37	Fan Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332702	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302716	1
44	Cable-cross Block	76512702	1
45	Pump Cover Plate	01252713	1
46	Bolt	70212701	3

FP-10XD-E (EM52000060)

1	Tube Exit plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt M6	70212711	4
10	Motor Support	01702701	1
11	Motor FN35B	15012703	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10312705	1
14	Evaporator Linkage	01074042	1
15	Cable-cross Loop	76512701	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01127104	1
19	Water Tray Assy	20182701	1
20	Rubber Stem	76712701	1
21	Electric Base Plate	01412721	1
22	Flow-guide Loop	10372701	1
23	Electric Box	20102701	1
24	Wire Clamp	71010102	4
25	Terminal Board T360B	42011142	1
26	relay	44010206	1
27	Transformer	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30512506	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010010	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072703	1
36	Nut with Washer M6	70310012	1
37	Fan Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332702	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302716	1
44	Cable-cross Block	76512702	1
45	Pump Cover Plate	01252713	1
46	Bolt	70212701	3

FP-12.5XD-E (EM52000030)

1	Tube Exit plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt M6	70212711	4
10	Motor Support	01702701	1
11	Motor FN35B	15012703	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10312705	1
14	Evaporator Linkage	01074042	1
15	Cable-cross Loop	76512701	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01127104	1
19	Water Tray Assy	20182701	1
20	Rubber Stem	76712701	1
21	Electric Base Plate	01412721	1
22	Flow-guide Loop	10372701	1
23	Electric Box	20102701	1
24	Wire Clamp	71010102	4
25	Terminal Board	42011142	1
26	relay	44010206	1
27	Transformer	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30512506	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010010	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072703	1
36	Nut with Washer M6	70310012	1
37	Fan Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332702	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302716	1
44	Cable-cross Block	76512702	1
45	Pump Cover Plate	01252713	1
46	Bolt	70212701	3

FP-14XD-E (EM52000070)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302713	1
4	Left Side Plate	01302711	1
5	Base Plate	01222732	1
6	Rear Side Plate	01302709	1
7	Bottom Foam	52012721	1
8	Motor Gasket	76712711	4
9	Bolt	70210012	4
10	Motor Support	01702701	1
11	Motor FN50T	15012710	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10310101	1
14	Evap Connection	01072735	1
15	Cable-cross Loop	76515202	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01187104	1
19	Water Tray	20182701	1
20	Screw	70140032	4
21	Electric Plate	01412721	1
22	Flow-guide Loop	10372722	1
23	Electric Box	20102701	1
24	Wire Clamp	71010103	3
25	Terminal Board	42011142	1
26	relay	44010206	1
27	TransformerSC28B1	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30505004	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010010	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072705	2
36	Nut with Washer	70310012	1
37	Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332721	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302712	1
44	Cable-cross Block	76512702	1
45	Pump Cover Board	01252713	1
46	Bolt	70212701	3

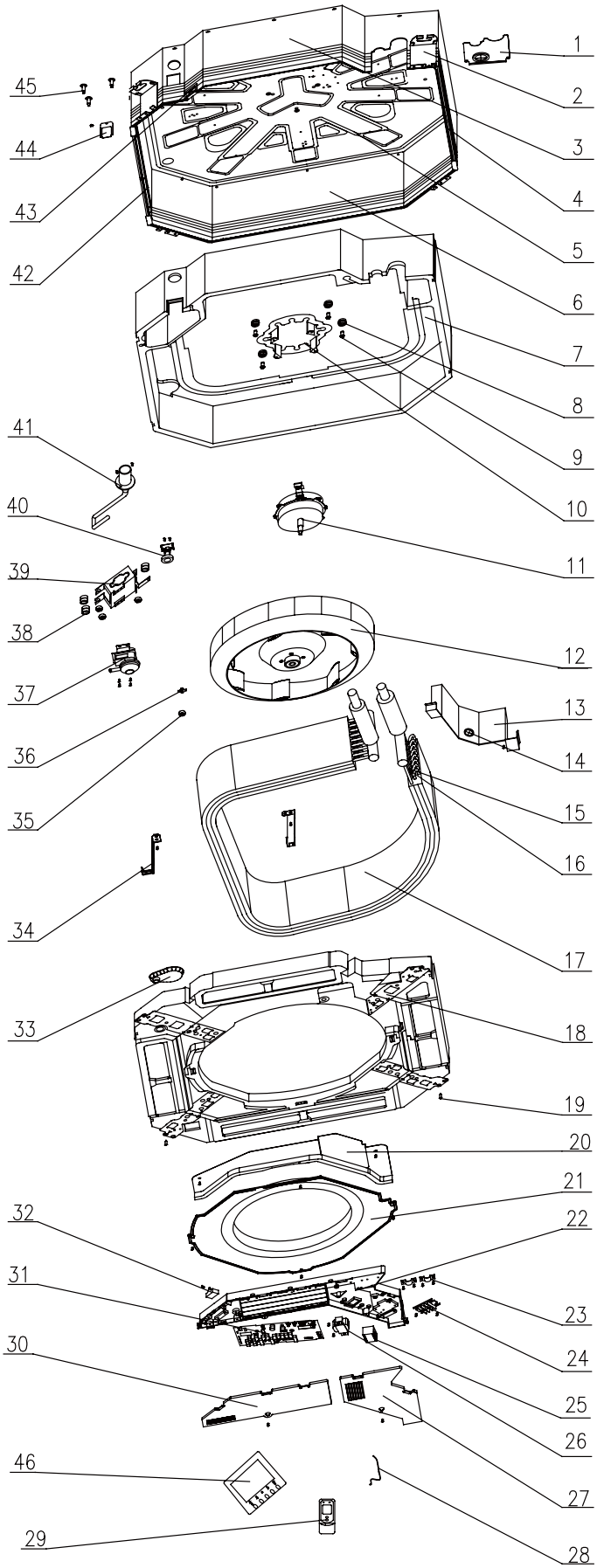
FP-16XD-E(EM52000080) SPARE PART LISTS:

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302713	1
4	Left Side Plate	01302711	1
5	Base Plate	01222732	1
6	Rear Side Plate	01302709	1
7	Bottom Foam	52012721	1
8	Motor Gasket	76712711	4
9	Bolt	70210012	4
10	Motor Support	01702701	1
11	Motor FN50T	15012710	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10310101	1
14	Evap Connection	01072735	1
15	Cable-cross Loop	76515202	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01187104	1
19	Water Tray	20182701	1
20	Screw	70140032	4
21	Electric Plate	01412721	1
22	Flow-guide Loop	10372722	1
23	Electric Box	20102701	1
24	Wire Clamp	71010103	3
25	Terminal Board	42011142	1
26	relay	44010206	1
27	TransformerSC28B1	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30505004	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010013	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072705	2
36	Nut with Washer	70310012	1
37	Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332721	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302712	1
44	Cable-cross Block	76512702	1
45	Pump Cover Board	01252713	1
46	Bolt	70212701	3

FP-18XD-E (EM52000040)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302713	1
4	Left Side Plate	01302711	1
5	Base Plate	01222732	1
6	Rear Side Plate	01302709	1
7	Bottom Foam	52012721	1
8	Motor Gasket	76712711	4
9	Bolt	70210012	4
10	Motor Support	01702701	1
11	Motor FN50T	15012710	1
12	Electric Heater	32002701	1
13	Centrifugal Fan	10310101	1
14	Evap Connection	01072735	1
15	Cable-cross Loop	76515202	1
16	Tube sensor	3900012125	1
17	sensor insert B	42020063	1
18	Heat exchanger	01187104	1
19	Water Tray	20182701	1
20	Screw	70140032	4
21	Electric Plate	01412721	1
22	Flow-guide Loop	10372722	1
23	Electric Box	20102701	1
24	Wire Clamp	71010103	3
25	Terminal Board	42011142	1
26	relay	44010206	1
27	TransformerSC28B1	43110170	1
28	Electric Box Cover I	20102702	1
29	Room sensor	39000110	1
30	Remote Controller	30505004	1
31	Electric Box Cover II	20102703	1
32	Main	30225904	1
33	Capacitor	33010012	1
34	Drainage Plastic	06122702	1
35	Evap Support	01072705	2
36	Nut with Washer	70310012	1
37	Fixer	10312701	1
38	Water Pump	43130324	1
39	Pump Gasket	76712702	3
40	Pump Support	01332721	1
41	Water Level Switch	45010201	1
42	Pump Drainpipe	05230026	1
43	Right Side Plate	01302712	1
44	Cable-cross Block	76512702	1
45	Pump Cover Board	01252713	1
46	Bolt	70212701	3

P-8XD/A-E; FP-10XD/A–E; FP-12.5XD/A-E; FP-14XD/A-E;FP-16XD/A-E; FP-18XD/A-E.
Exploded Views:



FP-8XD/A-E (EM52000450)

1	Tube Exit plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt M6	70212711	4
10	Motor Support	01702701	1
11	Motor FN35B	15012703	1
12	Centifugal Fan	10312705	1
13	Evaporator Linkage	01074042	1
14	Cable-cross Loop	76515202	1
15	Tube sensor	3900012125	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127104	1
18	Water Tray Assy	20182701	1
19	Rubber Stem	76712701	1
20	Electric Base Plate	01412721	1
21	Flow-guide Loop	10372701	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	4
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	39000111	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010026	1
32	Drainage pipe	4367120	1
33	Evap Support	01072703	1
34	Nut with Washer	70310012	1
35	Fan Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	1329416	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302716	1
42	Cable-cross Block	76512702	1
43	Pump Cover Plate	01252713	1
44	Bolt	70212701	3

FP-10XD/A-E (EM52000460)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt	70210051	4
10	Motor Support	01702701	1
11	Motor	15012703	1
12	Centifugal Fan	10312705	1
13	Evap Connection	01072710	1
14	Cable-cross Loop	76513101	1
15	Tube sensor	3900012125G	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127104	1
18	Water Tray	20182701	1
19	Screw	70140032	4
20	Electric Plate	01412721	1
21	Flow-guide Loop	10372701	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	3
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	390001911	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010010	1
32	Drainage Plastic	05230026	1
33	Evap Support	01074042	2
34	Nut with Washer	70310012	1
35	Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	01332702	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302716	1
42	Cable-cross Block	76512702	1
43	Pump Cover Board	01252713	1
44	Bolt	70212711	3

FP-12.5XD/A-E (EM52000470)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt	70210051	4
10	Motor Support	01702701	1
11	Motor	15012703	1
12	Centifugal Fan	10312705	1
13	Evap Connection	01072710	1
14	Cable-cross Loop	76513101	1
15	Tube sensor	3900012125G	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127104	1
18	Water Tray	20182701	1
19	Screw	70140032	4
20	Electric Plate	01412721	1
21	Flow-guide Loop	10372701	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	3
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	390001911	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010010	1
32	Drainage Plastic	05230026	1
33	Evap Support	01074042	2
34	Nut with Washer	70310012	1
35	Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	01332702	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302716	1
42	Cable-cross Block	76512702	1
43	Pump Cover Board	01252713	1
44	Bolt	70212711	3

FP-14XD/A-E (EM52000480)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302713	1
4	Left Side Plate	01302711	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302709	1
7	Bottom Foam	52012721	1
8	Motor Gasket	76712711	4
9	Bolt	70210051	4
10	Motor Support	01702701	1
11	Motor	15012710	1
12	Centifugal Fan	10310101	1
13	Evap Connection	01072710	1
14	Cable-cross Loop	76513101	1
15	Tube sensor	3900012125G	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127102	1
18	Water Tray	20182701	1
19	Screw	70140032	4
20	Electric Plate	01412721	1
21	Flow-guide Loop	10372722	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	3
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	390001911	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010026	1
32	Drainage Plastic	05230026	1
33	Evap Support	01072732	2
34	Nut with Washer	70310012	1
35	Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	01332721	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302712	1
42	Cable-cross Block	76512702	1
43	Pump Cover Board	01252713	1
44	Bolt	70212711	3

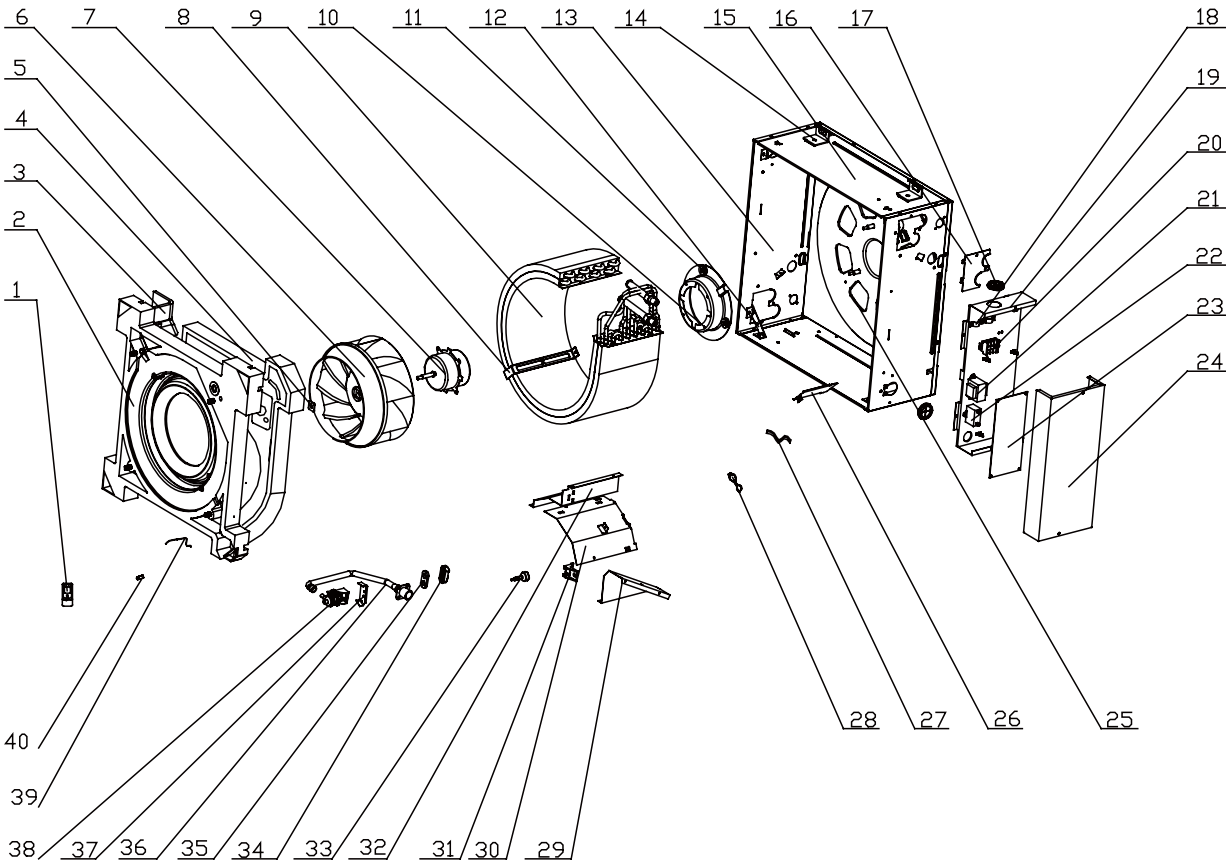
FP-16XD/A-E (EM52000490)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt	70210051	4
10	Motor Support	01702701	1
11	Motor	15012703	1
12	Centifugal Fan	10312705	1
13	Evap Connection	01072710	1
14	Cable-cross Loop	76513101	1
15	Tube sensor	3900012125G	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127104	1
18	Water Tray	20182701	1
19	Screw	70140032	4
20	Electric Plate	01412721	1
21	Flow-guide Loop	10372701	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	3
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	390001911	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010012	1
32	Drainage Plastic	05230026	1
33	Evap Support	01074042	2
34	Nut with Washer	70310012	1
35	Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	01332702	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302716	1
42	Cable-cross Block	76512702	1
43	Pump Cover Board	01252713	1
44	Bolt	70212711	3

FP-18XD/A-E (EM5200500)

1	Tube-exit Plate	02217102	1
2	Body Fixing Plate	01332701	4
3	Front Side Plate	01302718	1
4	Left Side Plate	01302715	1
5	Base Plate	01222701	1
6	Rear Side Plate	01302714	1
7	Bottom Foam	52012722	1
8	Motor Gasket	76712711	4
9	Bolt	70210051	4
10	Motor Support	01702701	1
11	Motor	15012703	1
12	Centifugal Fan	10312705	1
13	Evap Connection	01072710	1
14	Cable-cross Loop	76513101	1
15	Tube sensor	3900012125G	1
16	sensor insert B	42020063	1
17	Heat exchanger	01127104	1
18	Water Tray	20182701	1
19	Screw	70140032	4
20	Electric Plate	01412721	1
21	Flow-guide Loop	10372701	1
22	Electric Box	20102701	1
23	Wire Clamp	71010102	3
24	Terminal Board	42011142	1
25	Transformer	43110233	1
26	Electric Box Cover I	20102702	1
27	Room sensor	390001911	1
28	Remote Controller	305125063	1
29	Electric Box Cover II	20102703	1
30	Main PCB	30225904	1
31	Capacitor	33010012	1
32	Drainage Plastic	05230026	1
33	Evap Support	01074042	2
34	Nut with Washer	70310012	1
35	Fixer	10312701	1
36	Water Pump	43130324	1
37	Pump Gasket	76712702	3
38	Pump Support	01332702	1
39	Water Level Switch	45010201	1
40	Pump Drainpipe	05230026	1
41	Right Side Plate	01302716	1
42	Cable-cross Block	76512702	1
43	Pump Cover Board	01252713	1
44	Bolt	70212711	3

FP-51XD –E; FP-68XD –E EXPLODED VIEWS AND SPARE PART LISTS
Exploded Views:



FP-51XD –E (EM52000010)

1	Remote Controller	30512506	1
2	Water Tray	20182703	1
3	Water Tray Foam for Fresh Air In taking	12312702	1
4	Water Tray Foam	12312703	1
5	Fan Fixer	76712709	1
6	Centrifugal Fan	10312702	1
7	Motor FN11T	15012707	1
8	Evap Support	01072714	1
9	Surface Air Cooler Assy	01109501	1
10	Motor Support	01702702	1
11	Motor Gasket	76712705	4
12	Water Tray support	01332706	4
13	Front Side Plate	01302741	2
14	Body Fixer	01332705	4
15	Right Side Plate	01302743	2
16	Tube-exit plate	01382719	1
17	Cable-cross Loop	76512701	2
18	Wire Clamp	71010102	2
19	Electric Box Assy	01402705	1
20	Terminal Board(5bit)	42011142	1
21	Transformer 48X26G	43110233	1
22	Capacitor	33010035	1
23	Main PCB Z5935B	30225903	1
24	Electric Box Cover	01412723	1
25	Base Plate	01222712	1
26	Cord Baffle Plate	01362701	1
27	Connecting Wire	40030079	1
28	Power Cord Assy	40020203	1
29	Left Baffle Plate	01362703	1
30	Evap Connection	01072713	1
31	Water Level Switch Support	24212705	1
32	Right Baffle Plate	01362702	1
33	Water Level Switch	450127011	1
34	Pump Gasket 1	76712707	1
35	Pump Gasket 2	76712708	1
36	Pump Drainage	05232722	1
37	Pump Support	01332707	1
38	Water Pump PSB-7	43130320	1
39	Room Sensor	39000191	1
40	Wire Clamp	71010105	1

FP-68XD –E (EM52000020)

1	Remote Controller	30512506	1
2	Water Tray	20182703	1
3	Water Tray Foam for Fresh Air In taking	12312702	1
4	Water Tray Foam	12312703	1
5	Fan Fixer	76712709	1
6	Centrifugal Fan	10312702	1
7	Motor FN11T	15012707	1
8	Evap Support	01072714	1
9	Surface Air Cooler Assy	01109501	1
10	Motor Support	01702702	1
11	Motor Gasket	76712705	4
12	Water Tray support	01332706	4
13	Front Side Plate	01302741	2
14	Body Fixer	01332705	4
15	Right Side Plate	01302743	2
16	Tube-exit plate	01382719	1
17	Cable-cross Loop	76512701	2
18	Wire Clamp	71010102	2
19	Electric Box Assy	01402705	1
20	Terminal Board (5bit)	42011142	1
21	Transformer	43110233	1
22	Capacitor	33010035	1
23	Main	30225903	1
24	Electric Box Cover	01412723	1
25	Base Plate	01222712	1
26	Cord Baffle Plate	01362701	1
27	Connecting Wire	40030079	1
28	Power Cord Assy	40020203	1
29	Left Baffle Plate	01362703	1
30	Evap Connection	01072713	1
31	Water Level Switch Support	24212705	1
32	Right Baffle Plate	01362702	1
33	Water Level Switch	450127011	1
34	Pump Gasket 1	76712707	1
35	Pump Gasket 2	76712708	1
36	Pump Drainage	05232722	1
37	Pump Support	01332707	1
38	Water Pump PSB-7	43130320	1
39	Room Sensor	39000191	1
40	Wire Clamp	71010105	1

JF00300710

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070
Tel: (+86-756) 8522218 Fax: (+86-756) 8669426
E-mail: gree@gree.com.cn www.gree.com