

SERVICE MANUAL

AIR PURIFIER

SP-300A



1. Summary and Features

Main Function Feather:

- ★ Silver ion sterilizing anti-mildew
- ★ Cold catalyst
- ★ HIMOP High efficiency dispel formaldehyde
- ★ HEPA High efficiency filtering
- ★ Active carbon adsorb harmful gas high efficient
- ★ Plasma
- ★ Anion
- ★ Quiet design

Model: SP-300A



2. Technical Specifications

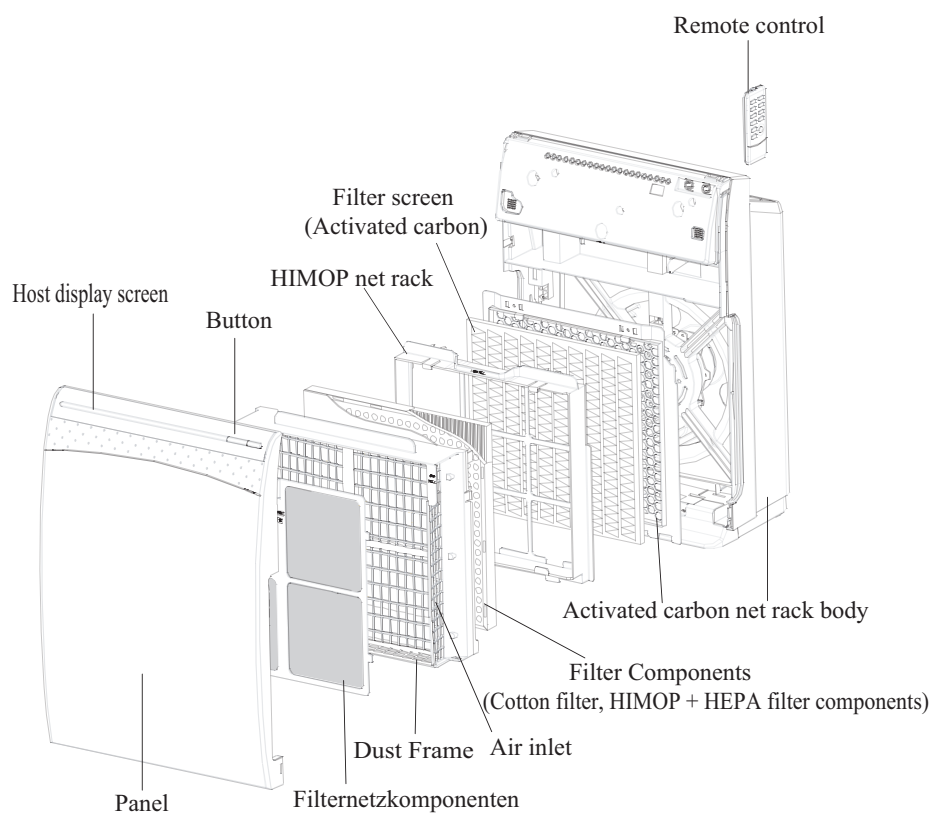
Model	SP-300A			
Power	220-240V~ 50Hz			
Fan Speed	Turbo	High	Low	Quiet
Air Flow Volume (m ³ /h)	300	230	150	75
Power (W)	95	85	75	60
Noise (dB)	53	48	38	28
Surface (m ²)	4.1			
Product Size (mm)	396 (W) × 245 (D) × 576 (H)			
Product Weight (kg)	10			

* The surface is the surface influenced by which the unit runs under high fan speed.

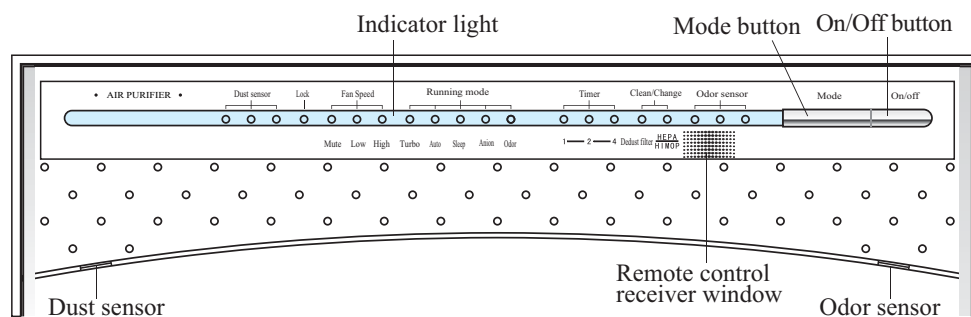
The above data is subject to change without notice. Please refer to the nameplate of the unit.

3 . Part Name

Unit Parts

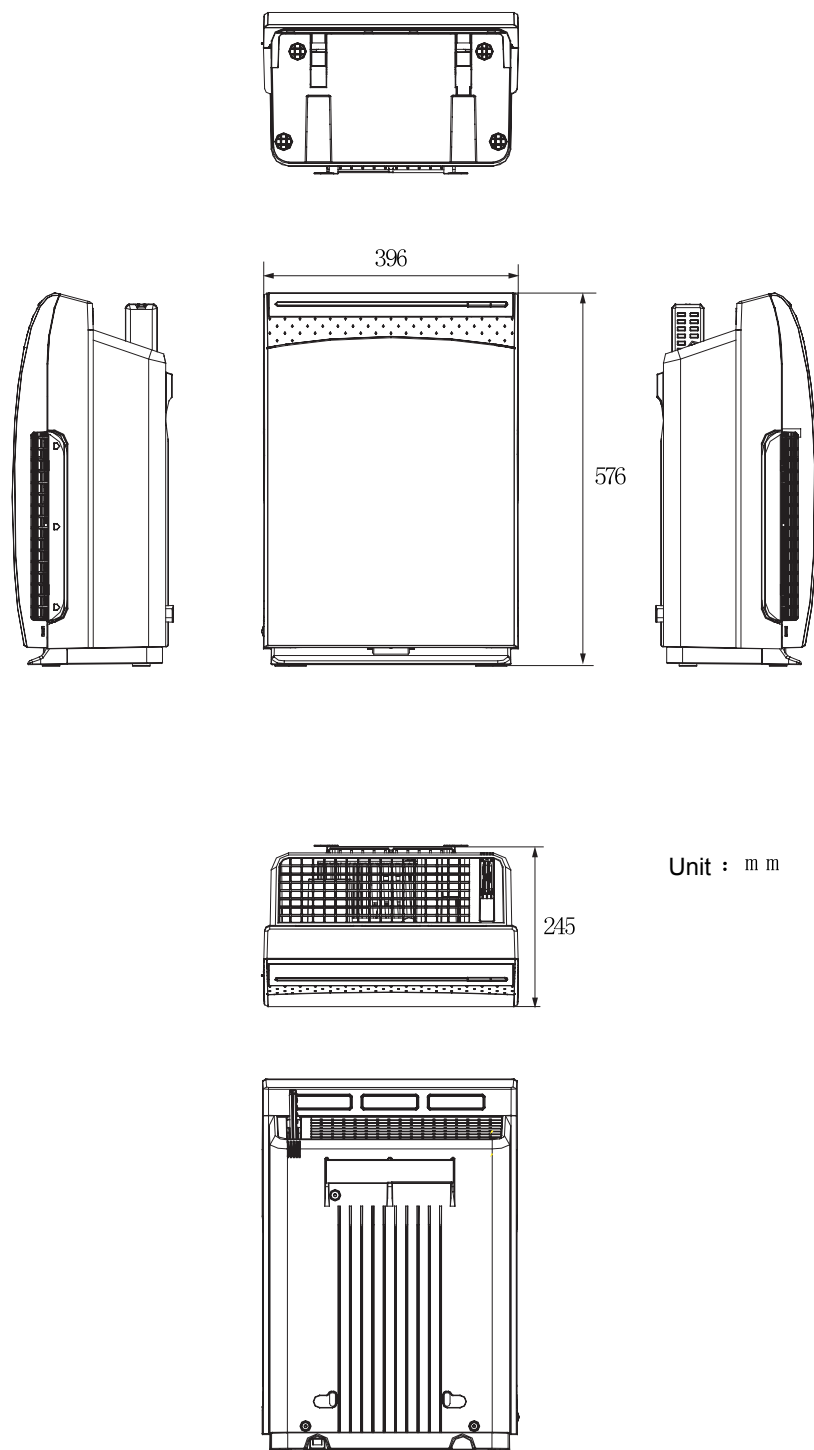


Unit display screen

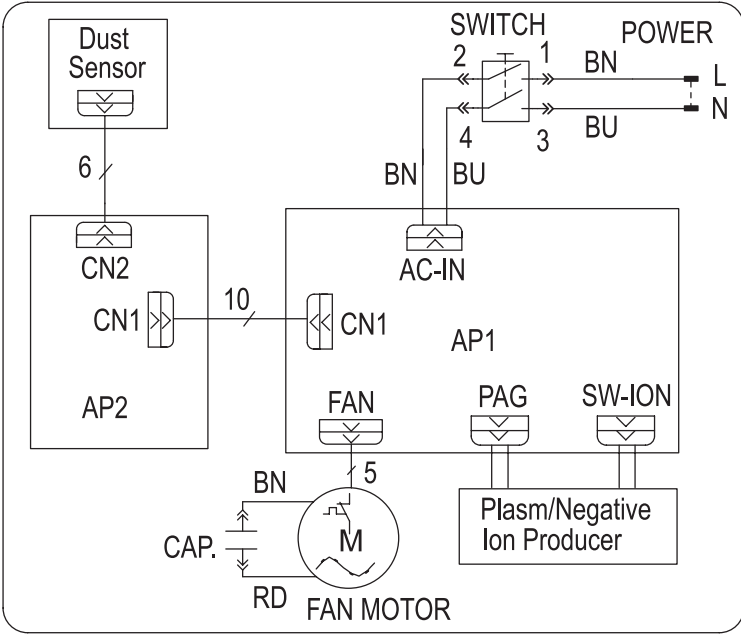


4 . Outline Dimension

Outline Dimension



Model:SP-300A



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

6 . Controller Function Manual and Operation Method

:Manual of Controller Function

1. Basic Function Mode

◆ Auto Mode

The fan speed can be adjusted automatically under auto mode, but if press the FAN key on the remote controller, the fan speed can not be adjusted. When the auto lamp is light, the corresponding fan speed lamp is light. When the fan runs with turbo, it will runs with turbo mode, and turbo lamp is light.

When the degree of off-flavor or dust is "low", the green lamp is light; when the degree of off-flavor or dust is "med", the green lamp and orange lamp are light; when the degree of off-flavor or dust is "high", the green lamp, orange lamp and red lamp are light.

◆ Turbo Mode

When the plasma is open and anion is close, the fan speed defaults turbo running, the turbo indicator lamp is light, the fan speed can not be adjusted if press remote controller.

◆ Sleep Mode

The fan speed can be adjusted automatically (low and quiet will change circularly) according to the air quality, the fan speed can not be adjusted if press remote controller, the sleep indicator lamp is light. The time is clearance when the unit is off or shift mode.

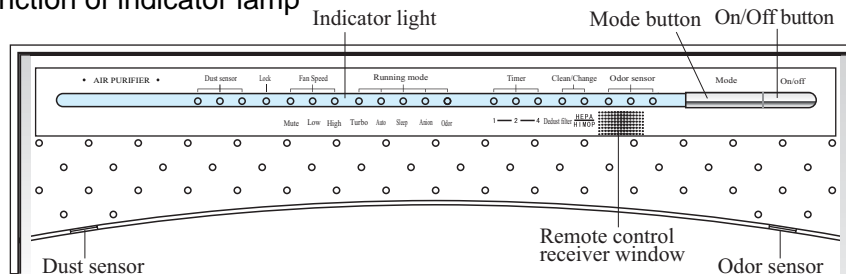
◆ Anion Mode

When the anion is open and plasma is close, the fan speed defaults low running, the anion indicator lamp is light, the high, low and quiet can change circularly if pressing FAN key.

◆ Clear off-flavor Mode

When the plasma is open and anion is close, the fan speed defaults high running, the clear off-flavor indicator lamp is light, the high, low and quiet can change circularly if pressing FAN key.

2 The display function of indicator lamp



◆ Operation Mode Lamp: The auto lamp is light under auto mode; the turbo lamp is light under turbo mode; the sleep lamp is light under sleep mode; the anion lamp is light under anion mode; the anti-off flavor is light under anti-off flavor.

◆ Fan speed Lamp: When the high, med, low lamp are light, that means the fan runs with high, med, low fan speed.

◆ Timer Lamp: When the timer 1,2,4 lamp are light, that means the timer time is 1h, 2h, 4h respectively; when the unit is on, the lamp is light shows setting timer is off; when the unit is off, the lamp is light shows setting timer is on, and there is no timer when the light is dark.

◆ Clear/Replace Lamp: When the "clear lamp" is blinking, that means the unit runs 480h totally and remind to clean filter. The lamp is dark when the conditions are not satisfied or resetting after clean.

When the "clear lamp" is blinking, that means the unit runs 2000h totally and remind to replace HEPA+HIMOP filter. The lamp is dark when the conditions are not satisfied or resetting after clean.

◆ Child Lock/ Dust Induction/ Off-flavor Induction: Controlled by remote controller.

3 Functions of front panel button

There are ON/OFF button and MODE button on the front panel.

- After the unit is first energized, press ON/OFF when the unit is off, it will run with auto mode, if turn on the unit again it will run with the previous mode, the unit is off if pressing ON/OFF when the unit is on.
- Press MODE when the unit is on, it will choose circularly by auto->turbo->sleep->anion->clear off-flavor->auto, and the fan speed runs with default fan speed of each mode.
- When the unit is stand-by, press mode key for 5S, all the indicator lamps are light and buzzer gives out beep, the cumulate time is clearance.

Note: When the unit runs 0.5h, the time cumulates one time, and no cumulation if runs less than 0.5h. The corresponding indicator lamp blinks to remind customer clean or replace it when the total cumulate time reaches. Before the cumulate time haven't been cleared, the indicator blinks if re-energized. If both cumulate time of clean and replace do not reach, they are clearance after resetting (used for factory-zero clearing), if one cumulate time reaches, only clear it after resetting, the other continues to run; if both of them reach, clear them after resetting.

4 Function of remote control button

◆ ON/OFF: After the unit is first energized, press ON/OFF when the unit is off, it will run with auto mode, if turn on the unit again it will run with the previous mode, the unit is off if pressing ON/OFF when the unit is on.

◆ Child Lock: Press it for 2S, the unit runs under this mode; it will be cancelled for 2 ways: lock function key with remote controller (press for 2S) or the unit is power-fail.

◆ Six mode keys: There are below modes: auto, turbo, sleep, anion, clear off-flavor. The button is valid when the unit is on.

a. If the current modes are auto, sleep and turbo, it will shift to the default status of this mode if pressing anion and anti off-flavor. If the current modes are anion and anti off-flavor, press the mode key which the same as the current mode, the buzzer gives out beep and no action for controller.

b. If the current mode is DUST:

Enter anion mode if press anion button, and default the status operation if press anion mode.

Enter clear off-flavor mode if press off-flavor button, and default the status operation if press clear off-flavor mode.

There is no change if press dedust button.

c. If the current mode is anion: Enter clear off-flavor mode if press off-flavor button, and default the status operation if press clear off-flavor mode. There is no change if press anion/static dedust button.

d. If the current mode is clear off-flavor: Enter anion mode if press anion button, and default the status operation if press anion mode. There is no change if press clear off-flavor /static dedust button.

◆ Timer Key: The unit will choose circularly by timer 1h->2h->4h->cancel if press this button.

Press timer if the unit is off, that means set timer on; press timer if the unit is on, that means set timer off. Eg: set the current timer to turn off the unit 1h later, then repress it is to turn off the unit 2h later, and then repress is to turn off the unit 4h later, last press it is cancel it. Then press it is to turn off the unit 1h later, cycle like this.

Note: If the current setting timer is 1h and does not reach, presses TIMER, the timer time will update to 2h, and restart to time regarding 2h.

If the unit is on and is set timer time off already, receiving the signal to turn off the unit, the unit is off and clears timer information.

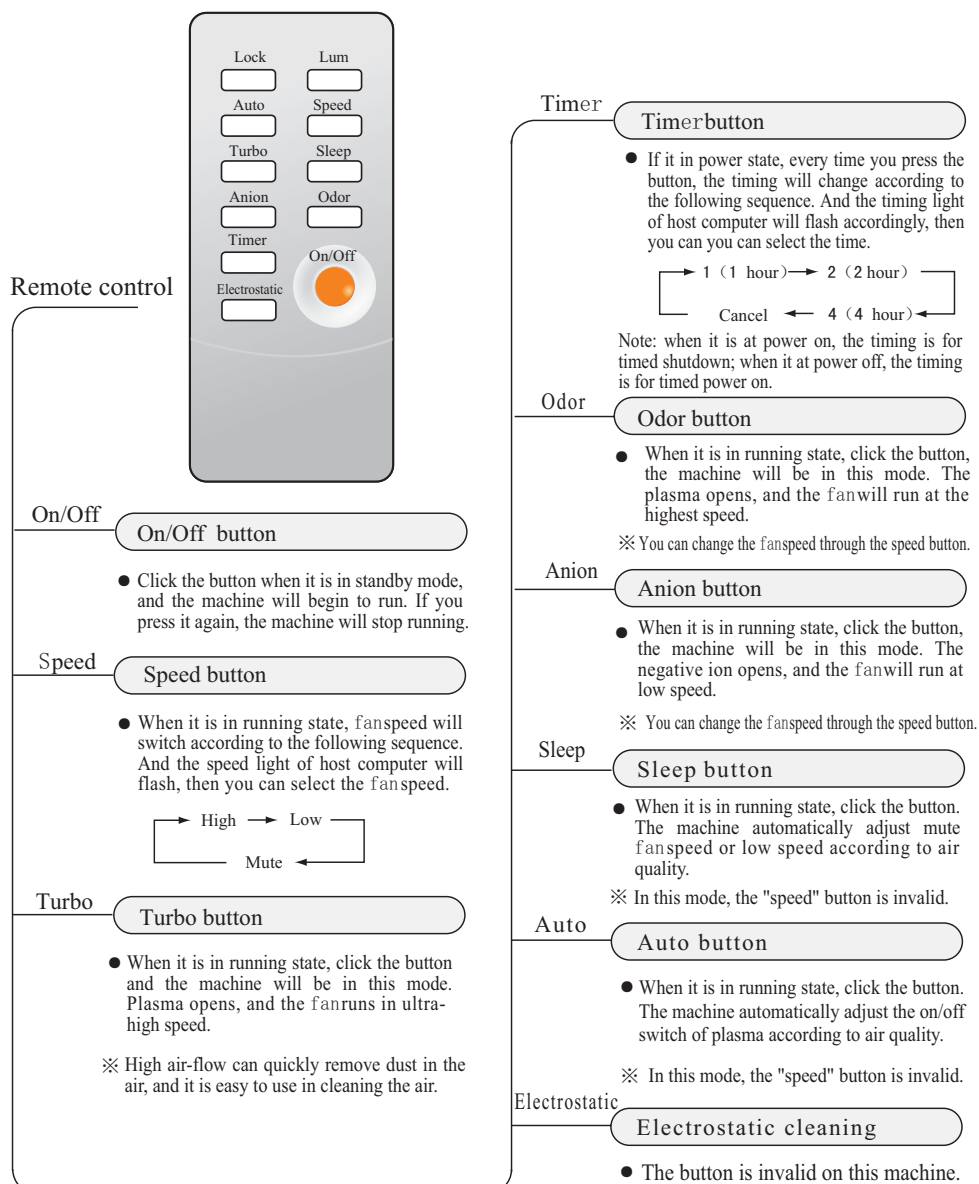
If the unit is off and is set timer time on already, receiving the signal to turn on the unit, the unit is on and clears timer information.

◆ Fan Key: It cycles by quiet->low speed->high speed (It is invalid with stand-by, auto, sleep and turbo mode). The fan speed runs with initial fan speed of each model when shift mode by remote control.

◆ Setting Key: The brightness of indicator lamp will be adjusted per press, the dust induction lamp and off-flavor induction lamp will display circularly by bright->dark->go out, and other lamps will display circularly by bright->dark->dark->bright.

: Names and Functions of Remote Control Buttons

The perfect functional regulation need to be completed by remote control.

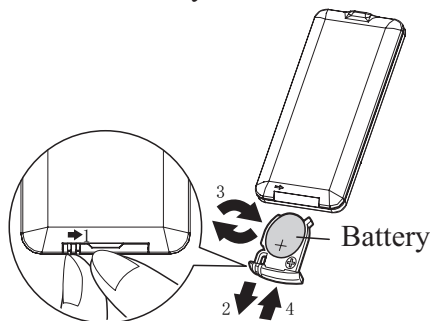


If it is not in use for a long term

1. Please switch off, unplug the power plug, and tie up power cord.
2. Clean each filter part, air inlet, outlet and the host body.
3. Place the carbon filter in a suitable plastic bag, seal it, and put it in the machine.
4. Cover it with dust cover, and place it in a shade and well-ventilated place.

Replace Battery

1. Open the back cover of the remote control according to the arrow direction.
2. Replace it with CR2025 battery, and then close the lid.



Note:

- The battery should be placed where children can not reach. If a child accidentally swallow the battery, you should quickly get in touch with the doctor.
- Before the battery is discarded, please use the tape etc. wrap it at both ends of positive and negative poles to prevent mixing with other metals or batteries and causing fever, rupture, fire and so on.
- When the battery is not used any longer, please put it into battery recycling place at the nearest electrical shop, watch, or camera stores.
- The criteria for replacing battery is 1 year. However, if it is not found insensitive in receiving signals, please replace the battery.
- Please replace the battery as soon as possible when it is close to the battery lifespan.
- In order to avoid the failure and injury caused by fluid leakage or rupture, please remove the battery if it is not in use for a long time.

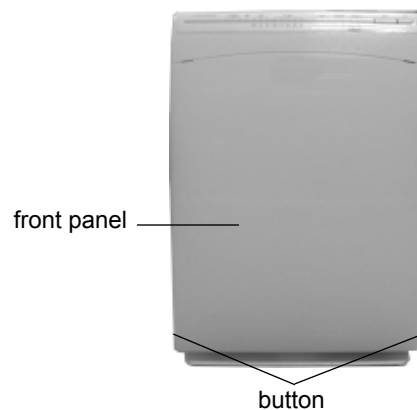
7 . Disassembly Procedures

: Disassembly Process

Operating Procedures / Photos

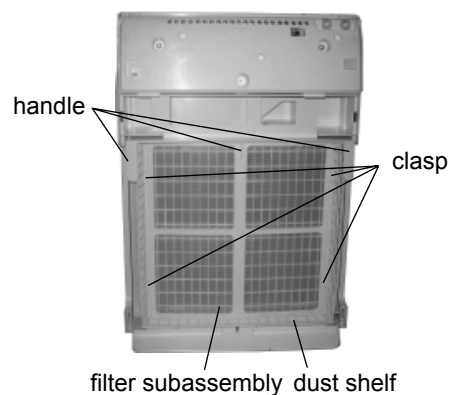
1. Disassemble front panel

Press the both buttons of front opanel, open the front panel onwards and lift it upwards to remove the front panel.



2. Disassemble filter subassembly and dust shelf

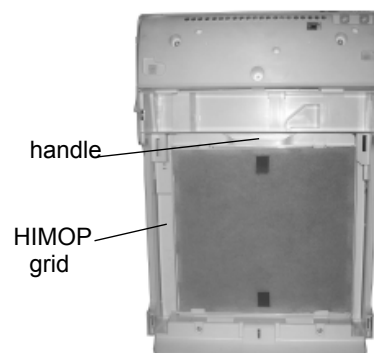
Hold the top handle of filter subassembly and pull it outwards, take out the top both clasp, then take out the bottom clasp to remove the filter subassembly.
Hold the two handles of dust shelf and pull it outwards to remove the dust shelf.



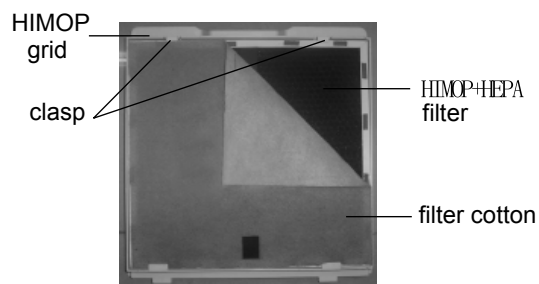
3. Disassemble filter subassembly and HIMOP grid

Hold the handle of grid and pull it outwards to remove the HIMOP grid.

The filter subassembly is on the HIMOP grid and including filter cotton and HIMOP+HEPA filter, tear the filter cotton directly, then loose the two clasps of HIMOP+HEPA filter to remove the HIMOP+HEPA filter.

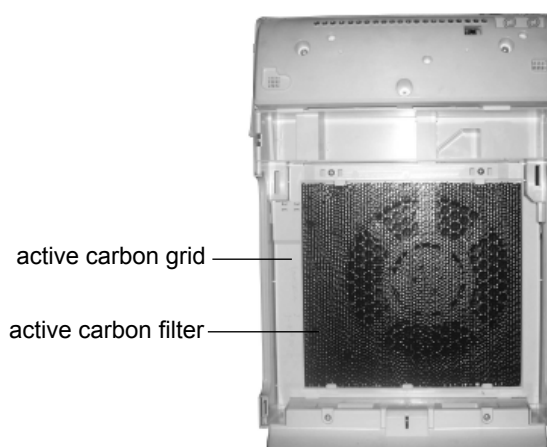


Operating Procedures / Photos



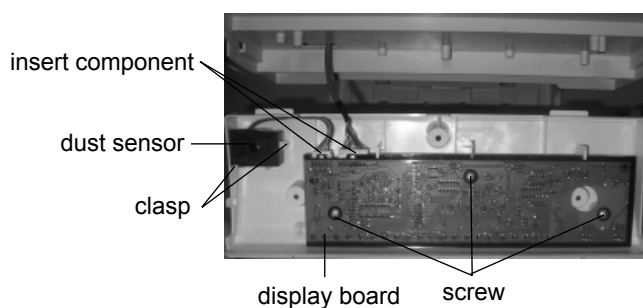
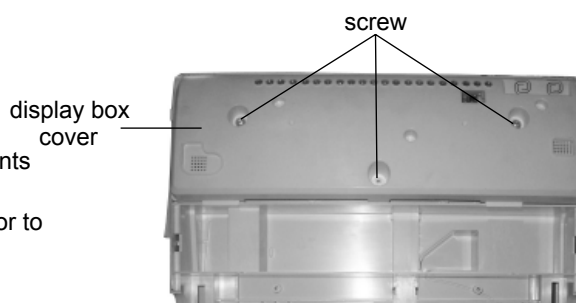
4. Disassemble active carbon filter

Remove the active carbon from grid and replace it.
Don't disassemble the active carbon grid.



5. Disassemble display board

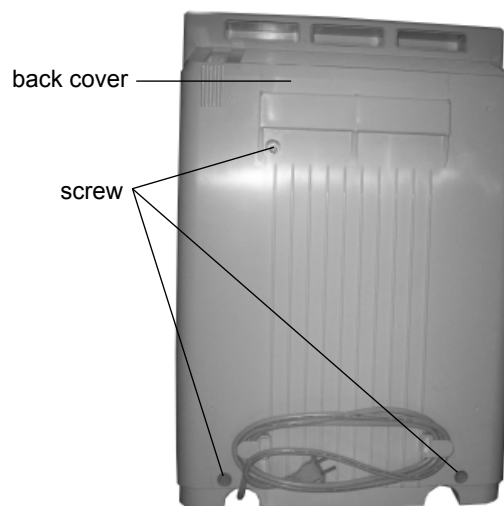
Unscrew the 3 screws on the display box cover to remove the display box cover. Unscrew the 3 screws fixing display board, and loose the two insert components which connect mainboard and dust sensor to remove the display board; loose the 2 clasps on the dust sensor to remove the dust sensor.



Operating Procedures / Photos

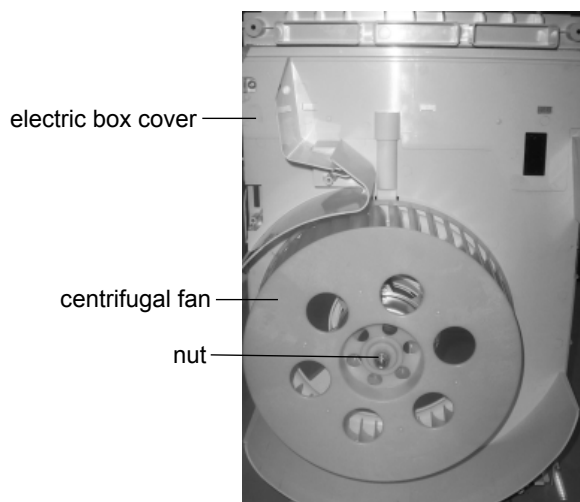
6. Disassemble back cover

Unscrew 2 screws on the front side of front panel and 3 screws on the back cover to remove the back cover.



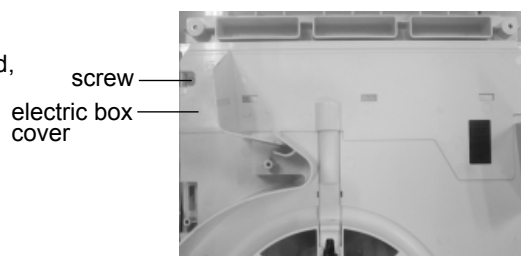
7. Disassemble centrifugal fan

Unscrew the nut on the centrifugal fan to remove the centrifugal fan.

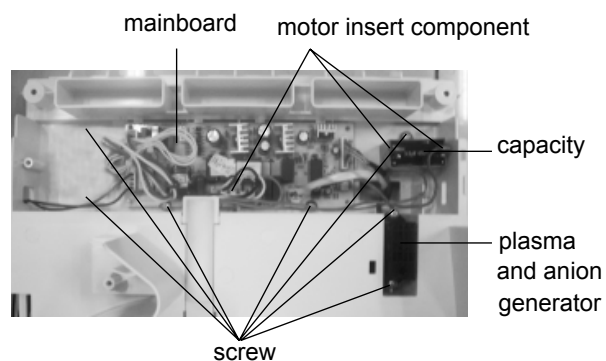


8. Disassemble electric box

Unscrew a screw on the electric box cover to remove the electric box cover. Unscrew the screws fixing mainboard, capacity, plasma and anion generator, and pull out the motor insert component to remove the mainboard, capacity, plasma and anion generator

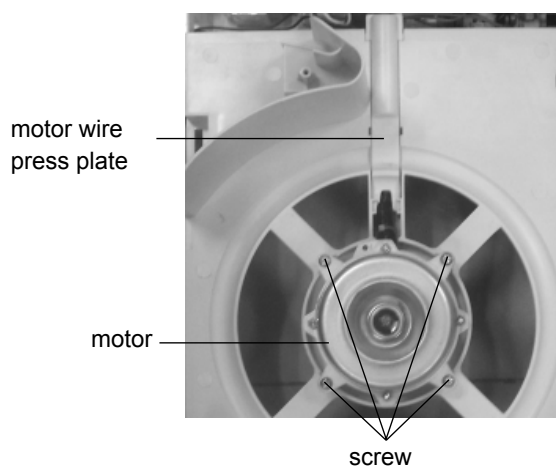


Operating Procedures / Photos



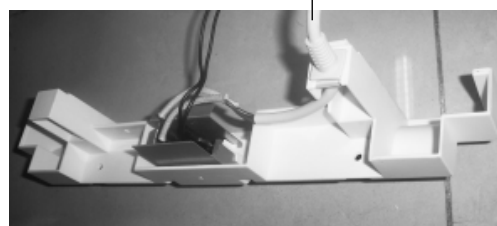
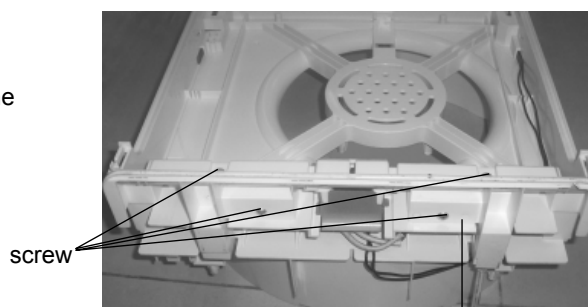
9. Disassemble motor

Remove the motor wire press plate, unscrew the 4 screws fixing motor to remove the motor. (note: Don't lost the gasket on the motor axes.)



10. Disassemble power cord

Unscrew the 4 screws on the chassis to remove the chassis. Remove the power cord from groove and pull the insert component out.



9 . Trouble-shooting

Please reaffirm the problems before asking for maintenance.

Symptoms	Check	Processing method
The remote control does not work	Whether the battery is dead?	Replace with new battery
	Are the positive and negative poles installed reversely?	Install the battery correctly
	Does indoor fluorescent light keep flickering for the reason of lifespan?	Keep the machine in a distance from the fluorescent
Can not start	Is the power plugged in?	Plug the power supply
	Is the panel correctly installed?	I Plug the power supply
There is no air blowing		Please contact the after-sales service in this case
Do not achieved the cleaning effect	Is it installed in unventilated areas or are there any obstacles near the machine?	Remove obstacles
	Is there too much dust on the filter components, filter cotton and HIMOP + HEPA filter components?	Clean the filters, and replace filter cotton
	Is there too much odor and smoke produced?	Clean activated carbon filters
The TV signal is in interference	Are there any TV, radio within 2 meters away from the machine or is there any indoor antennas near the machine?	Move the TV, radio, and indoor antennas more than 2 meters away from the machine.
	Are there any power cords or television sets, radio antenna which are close to the machine?	Keep the power lines or television sets, radio antenna as far as possible away from the machine.
It smells in the air outlet	Is there lots of smell released temporarily? (Many people smoke or barbecue.)	The smell will be gradually disappearing when the machine runs for some time.
	Is the activated carbon filter not cleaned or replaced for a long time?	Maintain the activated carbon filters

PARTS GUIDE

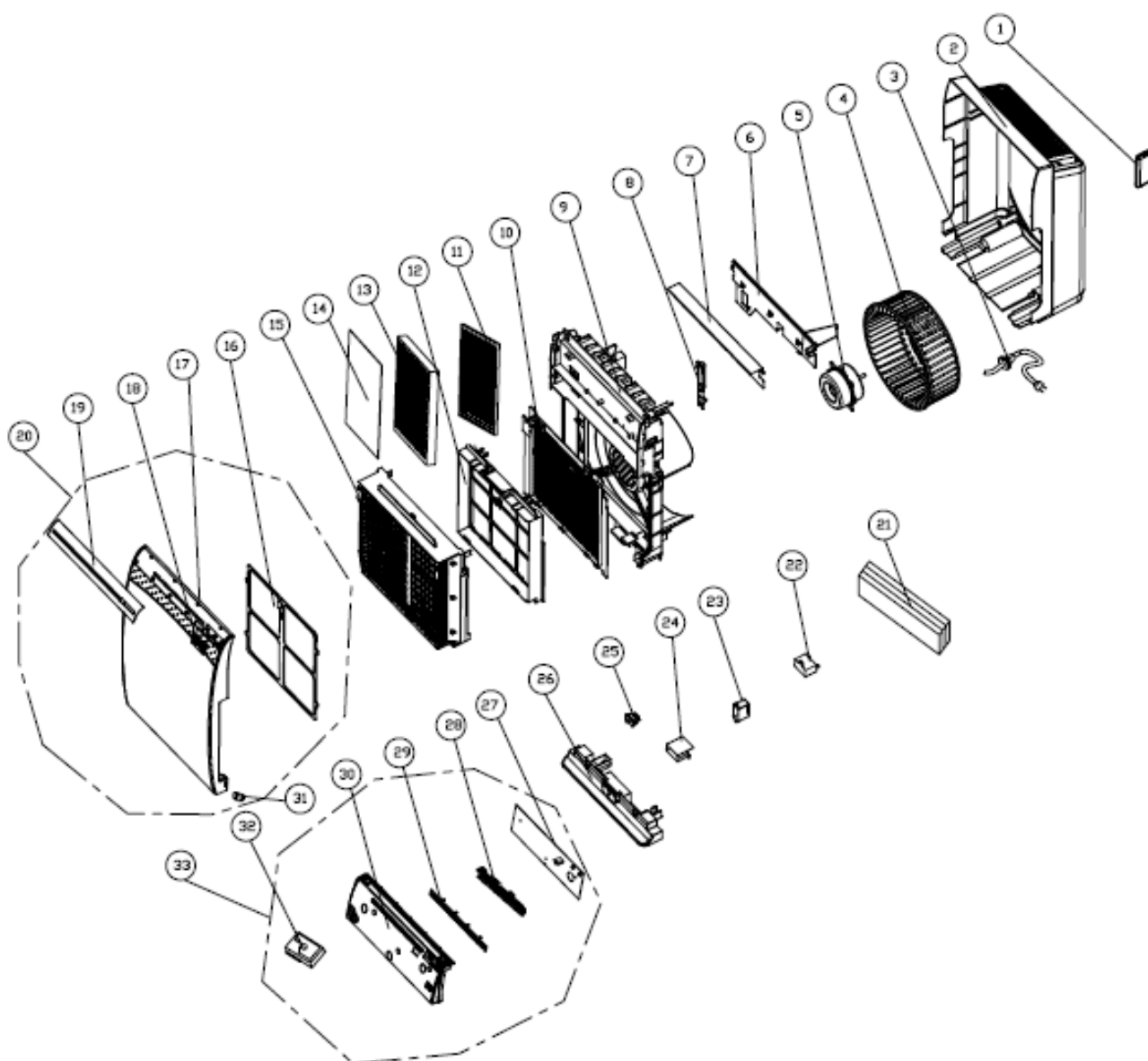
AIR PURIFIER

SP-300A



8. Assembly Drawing and Sparepart List

: Assembly Drawing, List



Parts List for SP-300A

NO.	Part Description	Part Code	qty	Price rank
SP-300A				
1	Remote Controller	30510081_K18260	1	AT
2	Rear Case	22206043	1	AS
3	Power Cord	4002037004	1	AK
4	Centrifugal fan	10316040	1	AM
5	Fan Motor	15016041	1	AV
6	Electric Box Cover	20126083	1	AE
7	Shield cover	01596003	1	AC
8	Wire Clamp	26116072	1	AB
9	Front Case	20006065	1	AU
10	Active carbon filter frame1	24216031	1	AL
11	Filter (Active carbon)	11126075	1	SPF-300A
12	HIMOP filter frame	24216032	1	AK
13	Filtering Sub-Assy	07216003	1	AD
14	Overload Protector	none	0	
15	Dust collector support	24216030	1	AP
16	Filter Sub-Assy	11126014	1	SPF-300A
17	Front Panel	27226066005	1	AS
18	Button	45036024D	1	AE
19	Indication panel	2000606701	1	AG
20	Front panel assy	2000607301_K18260	1	AW
21	Filter cotton (living air device)	7513600301	1	SPF-300A
22	Capacitor CBB611A(3uF/450V)	33010027	1	AE
23	Plasma generator	11146001	1	AU
24	Cover of switch	01256007	1	AC
25	Button switch	45010601	1	AF
26	Base Frame	26156015	1	AK
27	Display board	30560011	1	AV
28	Lamp Seat	26156051	1	AD
29	LED board	22436015	1	AU
30	Display box	20116018	1	AF
31	Front Panel Clip	26256002	2	AB
32	soot sensor.	32210131	1	AM
33	Display box assy	20116025	1	BC

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