

INSTRUCTION MANUAL

FIRST MADE FOR	SA-76P, SA-96P, SA-126P & SA-186P
MATERIAL OR MODEL	*PAPER-JO
DIMENSION OR MAKER	WOODFREE 80gm
COLOR	BLACK Print
NOTE	A4 SIZE

APPROVALS
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CHECK
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2005/Sep/08

DESIGN
Tai C. S
2005/Sep/08

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		PART NAME EXPLANATORY BOOKLET



INSTRUCTION MANUAL

(With Warranty Card)

Cooling only Model

SA-76P
SA-96P
SA-126P
SA-186P

Room Air Conditioner



Save These Instructions!



Thank you for choosing SANYO air conditioner. Our design is based on the best efficiency and the lowest noise operation and it can keep the room comfortable. Please read this Instruction Manual carefully before operating the unit and keep it for consultation. If you still have any difficulties or problems, consult your dealer for help.

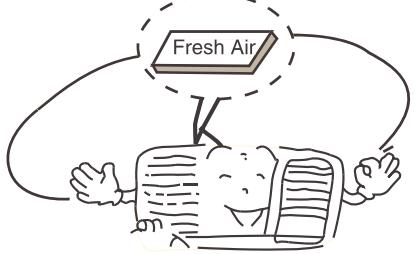
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● Function and working temperature range

Introduction

Window type room air conditioners of SANYO can regulate the room temperature, dry the room. It is convenient for your work, study and life. It can be widely used in residence, shop, hotel, office, library and laboratory, and so on.

Cooling in summer	Exchange fresh air
In hot summer, Air conditioner can cool down room air by transferring heat out.	<p>Open storm door to keep the fresh air in the room.</p> 

● Technical specifications

Table 1

Model	SA-76P	SA-96P	SA-126P	SA-186P
Function	Cooling	Cooling	Cooling	Cooling
Power supply	230V~ 60Hz			
Cooling capacity (KJ/h)	7,400	9,300	12,600	18,200
Power input (kW)	0.72	0.90	1.33	1.95
Current (A)	3.3	4.2	5.9	8.5
Refrigerant R22 (g)	500	620	720	710
E.E.R (KJ/Wh)	10.3	10.3	9.5	9.3
Noise (Cooling) (Hi / Low) dB(A)	Indoor (Hi / Low) 48 / 45	49 / 43	50 / 46	52 / 47
	Outdoor (Hi / Low) 56 / 52	56 / 52	58 / 54	59 / 53
Dimension (mm) Width × Height × Depth	450 × 350 × 580		560 × 375 × 600	660 × 428 × 770
Net weight (kg)	35	36	48	65

★ : All the above subject to change without notice and the correct parameter is on the name plate of your air conditioner.

★ ★ : The product specifications are based on the following rating conditions.

	Indoor side DB/WB (°C)	Outdoor side DB/WB (°C)
Cooling	27 / 19	35 / 27
Heating	---	---

Voltage: AC 230 V ± 10%

● Operating condition

Please operate air conditioner in correct conditions as following:

Cool mode operation

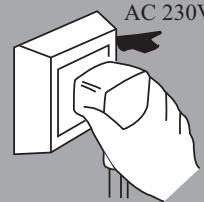
1. Outdoor temperature should be in range of 19°C to 43°C . Otherwise it is possible for air conditioner to breakdown.
2. Room temperature should be in the range of 19°C to 32°C .
3. Room humidity should be lower than 90%, Otherwise it is possible to dew at air conditioner surface and even drop water.

Power requirement



Rated voltage range: AC 230V $\pm 10\%$

- * The compressor would vibrate violently to damage the refrigerant system, when voltage is too high.



Electric circuit:

- * Must use special socket, do not use longer power lines, do not share a same socket with other electric appliances to avoid fire etc.
- * The earthing method must be reliable.
- * Work within correct voltage range.

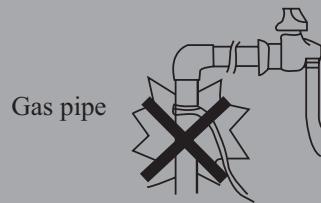


Earth wire do not connect earth wire to following places.

Water pipe



Gas pipe



● Installation

Installation precaution:

- Window type conditioner is so valuable and the improper installation of it will cause a lot of damage! Please associate the professional technician to install the unit and don't install it by yourself.
Otherwise, we are not responsible for the damage like this.
- Before installation, check that the voltage of the electric supply in your home or office is the same as the voltage shown on the name plate.

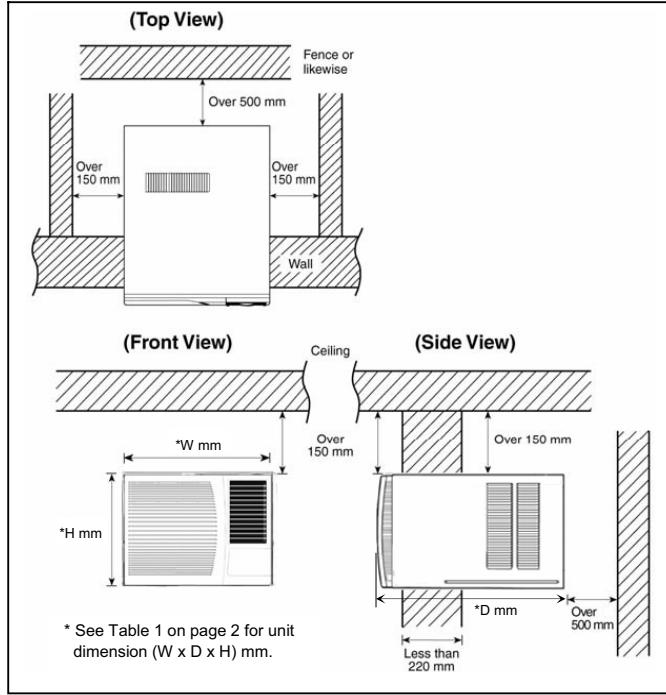


Location:

- The condensation water must be drained away conveniently.
- Install air conditioner unit far away from TV set or radio etc. to avoid disturbing video or voice.
- In salt and coastal area or place where is near thermal springs and polluted by sulphurous gas, or other special areas, please contact the seller before use.
- Avoid a place where is possible for inflammable gas to leak out.
- Avoid other heat sources or direct sun light.
- Avoid a place where is easy for children to touch.

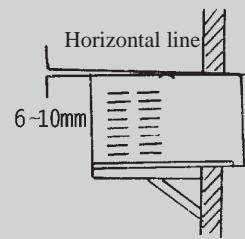
How to install:

- Choose a location where there are no any obstacle surrounding the unit.
- Prepare the installation hole slightly bigger than unit size.
- Choose the installation space according to the following diagram.



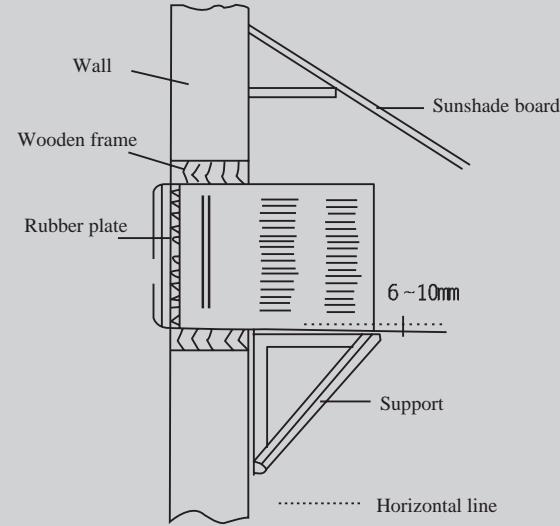
Installation procedure:

- 1) Remove the sticker from the front panel.
- 2) Put the unit into the installation hole.
 - When installing the unit, it should be slanted down to the back to avoid the enlargement of noise or vibration. (Slant between 6-10mm.) (Shown at right figure.)
 - The installation place should be strong enough to avoid the enlargement of noise or vibration.
- 3) Fill up sows in the cabinet with sponge or foam.



Installation assistance:

- Use iron support
The installation hole should be strong enough to support the air conditioner. If it cannot, iron support has to be used outdoors.
Iron support should be fixed on the building (Shown at right figure.)
- Use sunshade board
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine. If there is no cover on it, you should contact the seller for installing the sunshade board. When installing the sunshade board, don't let it block the air inlet at the side grille.

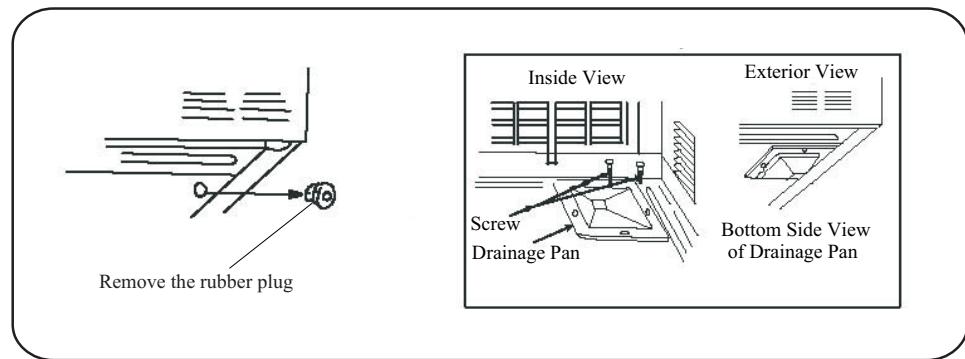


Drain water:

To get the maximum cooling efficiency, the air conditioner is designed to splash the condensation water on the condenser coil.

If the splashing sound annoys you, you can provide an outside drain by using the following procedure, which may however cause a small loss of performance.

1. Slide out the chassis 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 drain pan bottom.
5. Slide the chassis into its original place in the cabinet.



Note:

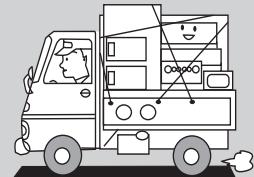
- Drain hose or tubing can be purchased locally to satisfy your particular needs.
- The drainage pipe shall be steadily connected with the drainage faucet without leakage.

● Notes for installation

Remove

Before removing air conditioner to the other place, you should contact the seller firstly.

Then it must be done under the direction of the professional technician. In addition, the charge of this must be paid.



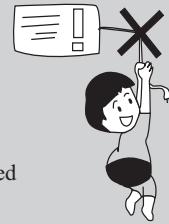
Noise

- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of outdoor unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience neighbors.
- Please contact the seller as soon as there is strange noise during operation.
- Please use the safety support.

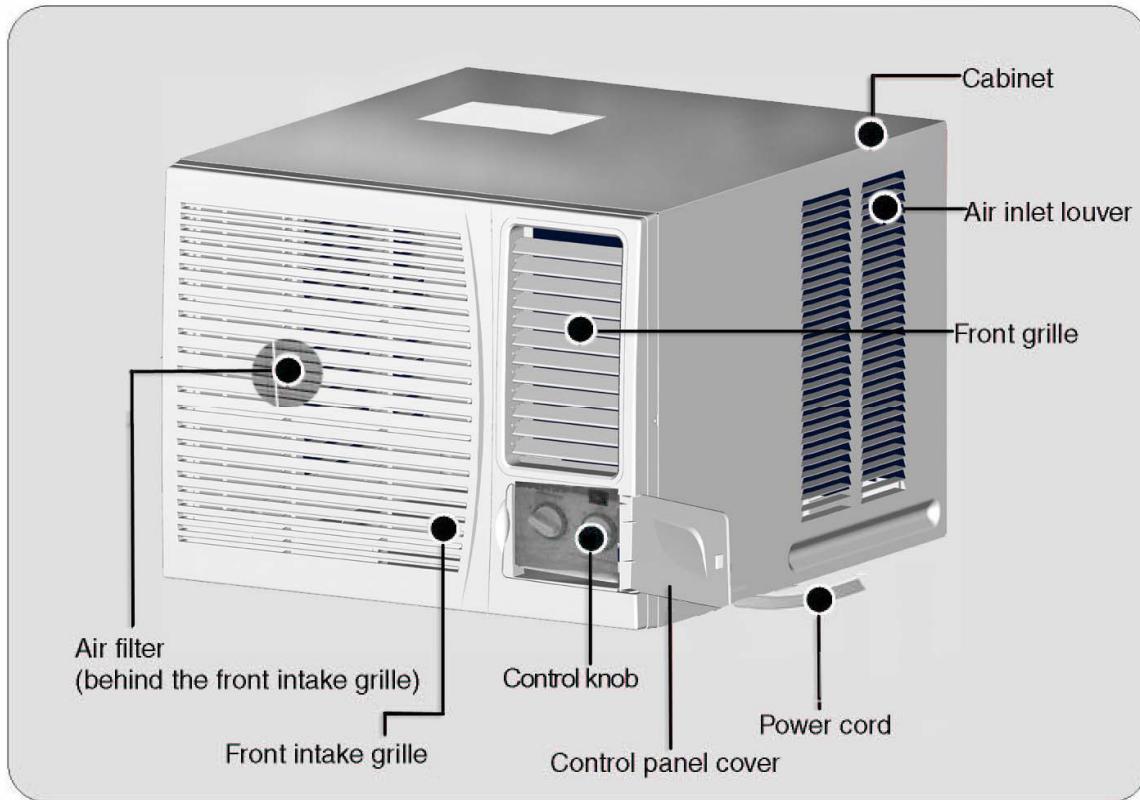


Electric wiring

- Must connect with ground reliably.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't pull the power cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.
- Air switch (thermal-magnetic breaker) should be installed in the circuit and its recommended capacity is 10A (SA-76P, SA-96-P & SA-126P) and 15A (SA-186P).
- The fixed wiring should be more than 2.5mm² in area.



● Part identification

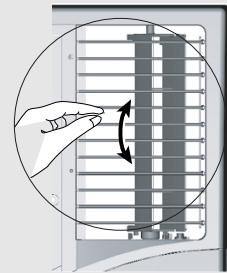


Air direction adjustment

Vertical airflow direction vane

(Airflow direction adjustment up and down).

The vertical airflow direction vane is controlled by positioning the vane to discharge the air upwards, downwards or straight out.



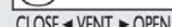
VENTILATION LEVER

When the slide lever at the :



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

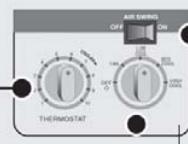
When the slide lever at the :



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

Ventilation Lever

MAIN CONTROL PANEL



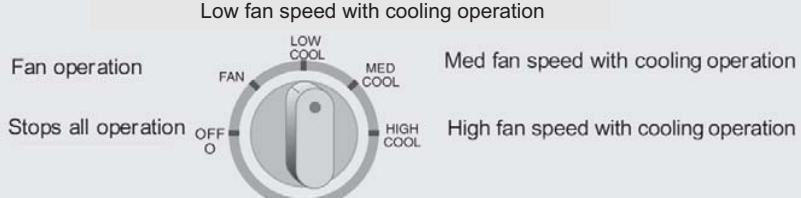
Air Swing Switch

AIR SWING



- | | |
|------------|--|
| OFF | Stops the operation of Air Swing. |
| ON | Air Swing is in operation. (only for LOW COOL, MED COOL and HIGH COOL operation) |

Main Control Knob



Thermostat Control Knob

Turn the thermostat control knob as shown:



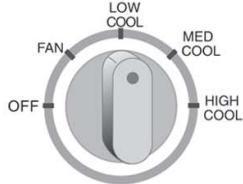
● Air conditioner operation



1. Open the control panel cover

2. Power Supply

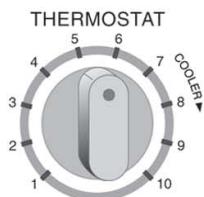
Switch off the breaker and set the main control knob to the OFF position before plugging the power plug into an electrical outlet.



3. Main Control Knob

Set to Low Cool, Med Cool or High Cool as desired.
(FAN setting operates the fan only.)

CAUTION: If the main control knob is turned off or changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to cooling operation.



4. Thermostat Control Knob

Set the thermostat control knob to your desired setting (Usually, 6~7 is recommended.). If the room temperature is not as desired after a reasonable period, turn the thermostat control knob clockwise to cool the room more or counter clockwise to cool the room less.

- When the thermostat control knob is set to 10, moisture may freeze onto evaporator fins and prevent effective cooling. If this happens, turn the main control knob to FAN Mode, and the thermostat control knob counter clockwise. This will quickly defrost the evaporator fins so that normal cooling can be resumed.



5. Air Swing Switch (Airflow direction adjustment Side-to Side)

To obtain a fix airflow direction, set the air swing switch to "ON" for the vanes to swing from side to side until the desired flow direction is reached, then switch it to "OFF".
For continuous side-to-side air circulation, set the air swing switch to "ON".

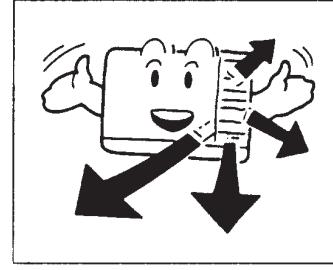
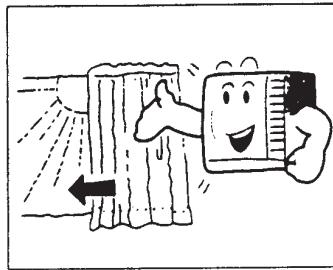
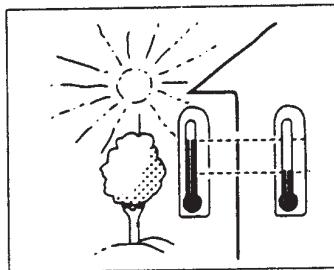
● Operation tips

Operation for comfort and economy

Do not overcool the room temperature, this is not good for health and waste electricity.

Keep blind or curtains closed, Do not let sunshine enter the room directly when the air conditioner is in operation.

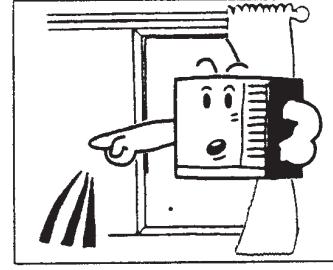
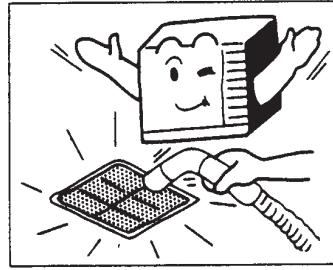
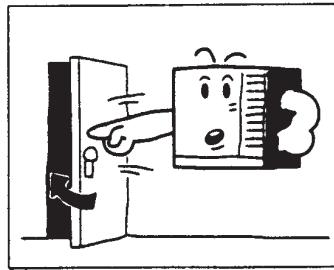
Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.



Make sure that the doors and windows are shut tightly. Avoid opening doors and windows as much as possible to keep the cool air in the room.

Clean the air filter regularly. Blockages in the air filter reduce dehumidifying effects. Clean at least once every two weeks.

Ventilate the room occasionally. Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.



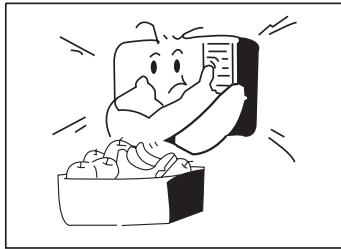
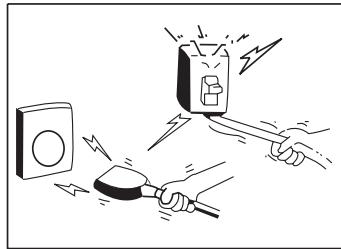
● Caution

- 1) The plug must be accessible after the appliance is positioned.
- 2) Do not use this appliance in the laundry.
- 3) If the power cord is damaged, it must be replaced by the manufacturer or its service agent in void of hazard.

Do not pull out the power cord.
Damage to the cord may result in serious electrical shocks.

Do not use the air conditioner for other purposes such as drying clothes, preserving foods, keeping animals, or cultivating vegetables.

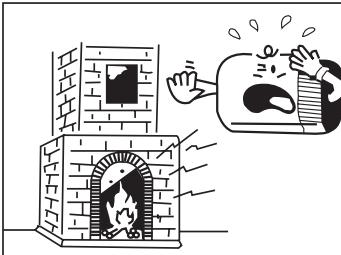
Do not block the air intake and outlet vents.
This causes lowered performance and irregular operation.
Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.



Select the most appropriate temperature.
Take care to adjust the temperature to suit the conditions.
Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.

Do not use heating apparatuses in the air conditioner's plastic parts melt if exposed to excessive heat.

Avoid exposing the body directly to a continuous unidirectional air flow for long periods.
This is not recommended for health reason.



Always wait at least 3 minutes before switching the air condition on again after you have switched it off during cooling.

Always wait at least 3 minutes

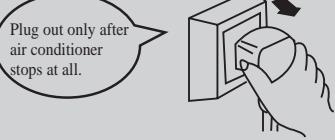


● Care and maintenance

Always turn off the air conditioner and main power supply before cleaning to ensure safety.

Clean unit

1. Plug out first before cleaning.



2. Clean surface panel with a soft and dry cloth, which is soaked warm water below 40 °C.

3. Do not use chemical solvent for cleaning.



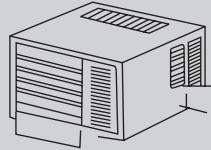
4. Do not splash water directly to indoor unit, in which there are micro-computer and circuit plate, they must not be touched by water.

Air filter

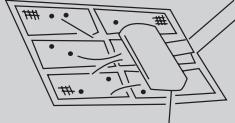
The air filter behind the intake grille should be washed at least every two weeks or as often as it needs cleaning.

How to clean the air filter:

1. To remove the air intake grille, grasp the tab on the filter and pull to take out.



2. Vacuum the filter on the dusty side to remove light dust.



3. Wash the filter, cleaner side up under gently flowing water to wash out accumulated dust and lint.



4. If the filter is very dirty, use a mild household detergent in the wash water.



Let the filter dry thoroughly before reinstalling it. Do not operate the air conditioner without the air filter. This can damage the unit.

* Check earth wire

Is it broken or loose?



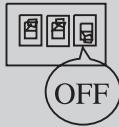
* Check air inlet and outlet of outdoor unit.

Air lock could result in bad efficiency.



● When trouble shooting

If your air conditioner does not work properly, first check the following items before ask for servicing, it help to save your time and money. If it still does not work properly, then only contact your dealer or service center.

Fault phenomenon	Trouble-shooting
Air conditioner does not operate at all. 	* Is power fail? * Is plug out? * Is power fuse or switch off? * Is voltage higher than 253V or lower than 207V?
Cool efficiency is not good.	* Is air inlet or outlet blocking? * Is there any other heat source in room? * Are air filters dirty very much? * Is indoor fan speed set at LOW?
Foggy air flows out. 	* While in COOL mode operation, sometimes there is foggy air flowing out of indoor unit, this is because that room humid air has been cooling rapid.
The air conditioner operation is noisy. 	* For a noise that sounds like water flowing: This is the sound of freon flowing inside the air conditioner unit. * For a noise that sound like a shower: This is the sound of the dehumidifying water being processed inside the air conditioner unit.
It seems that condensation is leaking from air conditioner.	* Condensation occurs when the airflow from the air conditioner cools the warm room air.
Air conditioner does not operate for about 3 minutes when restart.	* This is to protect the mechanism. * Wait about three minutes and operation will begin.



Immediately stop all operations and plug out, contact with your dealer in the following situations.

- * Operation starts or stops abnormally;
- * Power fuse or switch often breaks;
- * Carelessly splash water or something into air conditioner;
- * Electrical lines are much hot or lines cover breaks;
- * Other strange situations.



WARRANTY CARD

SANYO		WARRANTY REGISTRATION	
Air Conditioner		Serial No. _____	
Model _____			
Date of Purchase _____		Invoice No. _____	
Dealer _____ (Name) _____		(Address) _____	
Customer's Name and Address _____ _____ _____			
IMPORTANT TO VALIDATE YOUR ONE (1) YEAR WARRANTY COMPLETE AND MAIL THIS CARD WITHIN 10 DAYS.			
DETACH AND RETAIN THIS PORTION - RETURN ABOVE			
SANYO		1 Year Warranty	
Air Conditioner		Serial No. _____	
Model _____		Date of Purchase _____	
Customer's Name _____		Address _____	
Dealer _____		Branch _____	
Product Warranty Certificate			
This quality SANYO product is guaranteed for one (1) year from the date of purchase of original buyer against defect in manufacture or material. The compressor is guaranteed for five (5) years while refrigerant and other consumable items are not covered by this warranty after one (1) year from the date of original purchase.			
SANYO Service Corporation (SSC) shall perform the services and replacement of part/s free of charge covered by this one (1) year warranty to its utmost effort. There will be corresponding charges for labor, adjustments and parts after the warranty period. SSC will not be liable for damages direct or otherwise arising out of delays in failure in furnishing parts or services caused by Acts of God, Acts of Government (national or local), environmental factors, labor disputes, difficulties or failure of transportation, force majeur or other causes beyond its control, or for damages resulting from delays in performing the services covered by this warranty.			
This guarantee shall be valid upon purchase, mailed and duly register with SSC within ten (10) days. The warranty shall be void if the unit has been tampered with or repaired by other than SSC or its authorized service shops.			
Present this Warranty Card together with your Sales Invoice/Official Receipt upon request for Service.			



