



OWNER'S MANUAL

AIR CONDITIONER

(SPLIT TYPE)

MODEL:

DSG-07CRN2 (ASD7A)
DSG-07HRN2 (ASD7T)
DSG-09CRN2 (ASD9A)
DSG-09HRN2 (ASD9T)

Thank you very much for purchasing our air conditioner.
Please read this owner's manual carefully before using your air conditioner.

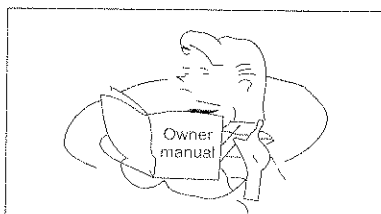
NOTICE

1. The outline of air conditioner on the manual cover is sketch map.
2. Before you operating your air conditioner, please read precaution first to avoid air conditioner damage or other accident caused by your mishandling.

CONTENT

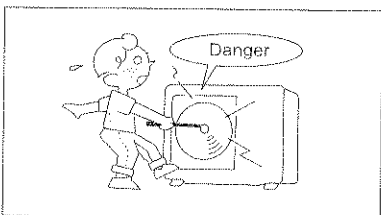
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IMPORTANT SAFETY INFORMATION



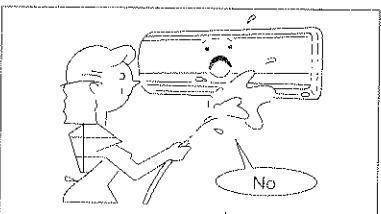
⚠ CAUTION

Do not attempt to install this unit oneself. This unit requires installation by qualified persons.



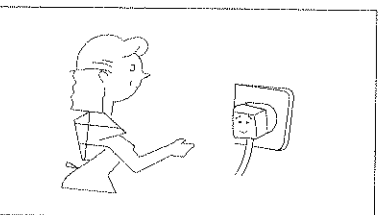
⚠ DANGER

Never put hands or objects into the air outlet of indoor and outdoor units. These units contain a fan running at high speed. Touching the moving fan will cause serious injury.



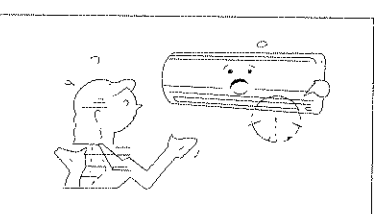
⚠ CAUTION

Do not let children play with the air conditioner. The disabled and children can operate air conditioner under the guidance of an adult.



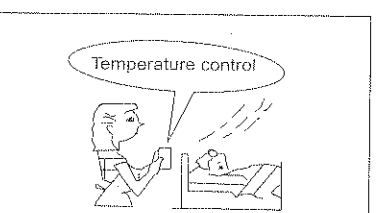
⚠ DANGER

Do not attempt to service the unit oneself. This unit has no user serviceable components opening or removing the cover will expose you to dangerous voltage. Turning off the power supply will not prevent potential electric shock.



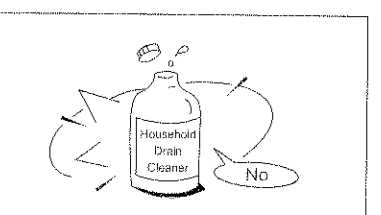
⚠ DANGER

To avoid the risk of serious electrical shock, never sprinkle or spill water or liquids on unit.



⚠ WARNING

To prevent damage to the unit from lightning, disconnect the power supply plug in lightning storm. To prevent power wire from over voltage, disconnect the power supply plug when nobody attends to the unit or do not use it long time. To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine maintenance. Follow the directions for cleaning in the Owner's Manual.



⚠ NOTE

For proper performance, operate the unit under the usable operating temperature and humidity conditions indicated in this owner's manual. If the unit operates beyond these conditions, it may cause malfunction of the unit or dew dripping from the unit.

⚠ CAUTION

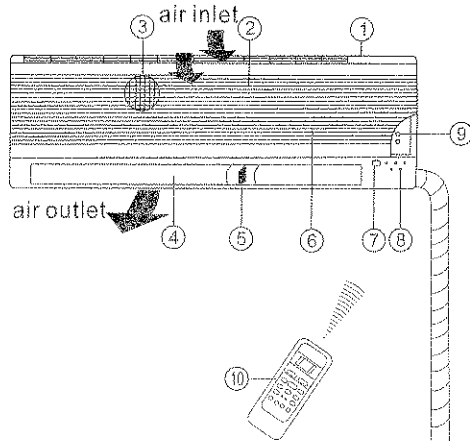
Keep the room temperature well situated when there are handicapped, children or old people in the room.

⚠ CAUTION

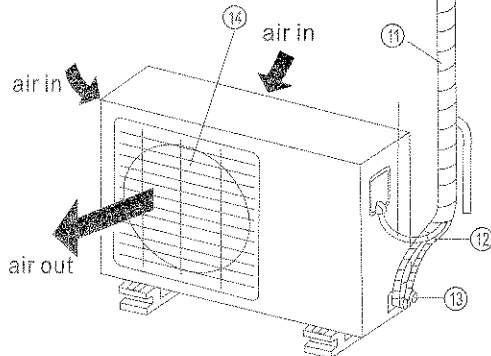
Do not use liquid cleaners or aerosol cleaners, use a soft and dry cloth for cleaning the unit. To avoid electric shock, never attempt to clean the units by sprinkling water.

PARTS NAMES

Indoor unit



Outdoor unit



Indoor unit

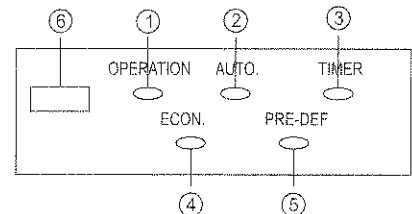
1. Front panel frame
2. Front panel
3. Air filter
4. Horizontal air flow grille
5. Vertical air flow louver
6. Room temperature sensor
7. Infrared signal receiver
8. Display lamp
9. Control panel
10. Remote controller

Outdoor unit

11. Drain hose, refrigerant connecting pipe
12. Connective cable
13. Packed valve
14. Air outlet

Display panel

- ① Operation Lamp
- ② Automatic Lamp
- ③ Timer Lamp
- ④ Economic Lamp
- ⑤ Pre-defrost Lamp (Cooling only type without)
- ⑥ Infrared signal receiver



NOTE:

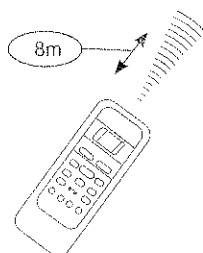
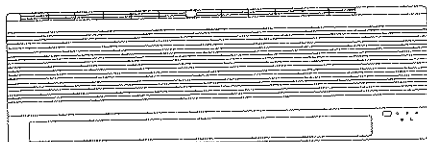
The indicators flash rapidly (five times per second), when safety protection features come into operation.

HINTS FOR ECONOMICAL OPERATION

- **Maintain room temperature at comfortable level.**
- **Clean air filter**
A clogged air filter reduces cooling efficiency. Clean it once two weeks.
- **Never open doors and windows more often than necessary**
To keep cool or warm air in the room, never open doors and windows more often than necessary.
- **Window curtains**
In cooling, close the curtains to avoid direct sunlight.
- **Use the timer effectively**
Set the timer for the desired operation time by remote controller

HANDLING THE REMOTE CONTROLLER

Location of the remote controller



Keep the remote controller where its signals can reach the receiver of the indoor unit. (a distance of 8m is allowed.)

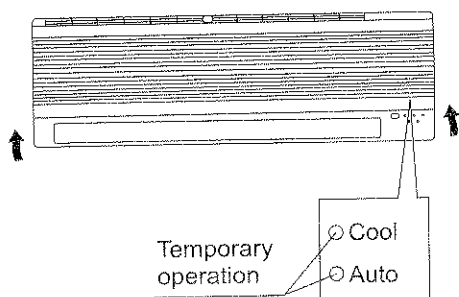
CAUTIONS

- The air conditioner will not operate if curtains, doors or anything else block the signals from the remote controller to the indoor unit.
- Prevent any liquid from falling into the remote controller. Do not expose the remote controller to direct sunlight or heat.
- If the infrared signal receiver on the indoor unit is exposed to direct sunlight, the air conditioner may not function properly. Use curtains to prevent the sunlight from falling on the receiver.
- If other electrical appliances react to the remote controller. Either removes these appliances or consult your local dealer.

Notes

- When replacing batteries, do not use old batteries or different type batteries. Otherwise, battery leakage may damage the remote controller.
- If you do not use the remote controller for more than a few weeks, remove the batteries, otherwise, batteries leakage may damage the remote controller.
- The average battery life during normal use is approximately half a year.
- Replace the batteries when there is no receiving beep from the indoor unit or if the transmission indicator on remote controller fails to light.

TEMPORARY OPERATION



This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted.

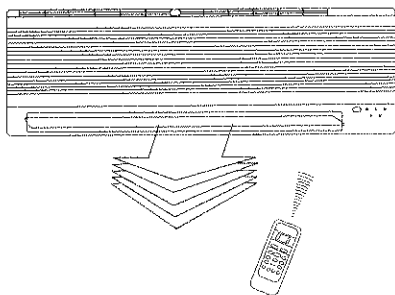
1. Open the panel and lift the panel up to angle which remains fixed. Do not lift the panel any further when it stops with a "click" sound.
2. When Push the AUTO button of indoor unit's manual switch, The unit will work in "AUTO" mode.
3. Push the button on remote controller straight in remote control mode.
4. The COOL switch of indoor unit is provided for test operation.

ADJUSTING AIR FLOW DIRECTION

- Adjust the air flow direction properly. Otherwise, it might Cause uncomfort and make the room temperature uneven.
- Adjust the horizontal air flow louver by using the remote Controller.
- Adjust the vertical air flow grilles manually.

Adjust the horizontal air flow direction

When the air conditioner is operating the horizontal air flow louver may be adjusted to changed the airflow direction as you like.

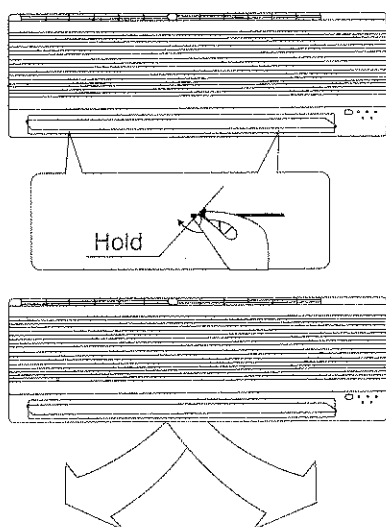


• **To automatically swing the air flow direction**
Push the SWING button, horizontal louver swings automatically.

The lover will close automatically when the air conditioner stops.

CAUTION

- *The SWING button will be disabled when the air conditioner is not in operation.*
- *Do not set the open angle of horizontal louver too small, otherwise, it will affect the cool or heat effect because of little outlet.*
- *Do not move the horizontal louver manually. If you move the louver manually, it may cause malfunction, stop the air conditioner and restart.*
- *Do not set the open angle of horizontal louver too small. Otherwise, condensation may occur on the surface of the horizontal louver and it cause dew dripping.*
- *When the air conditioner is started immediately after it was stopped, the horizontal louver might not move For 10 seconds or so.*



When the air conditioner is operating, the vertical louver may be adjusted to change the horizontal air flow.

1. Move the handle outlet left side (or right side) by hand.

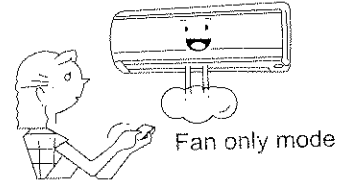
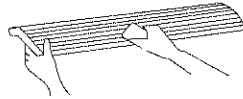
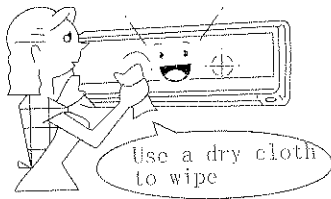
Adjust the vertical air flow grilles to desired direction to change vertical air flow direction.

MAINTENANCE

Cleaning the indoor unit and the remote controller

Before you clean the air conditioner, be sure to disconnect the power supply plug.

1. Use a dry cloth to wipe the indoor unit and remote controller.
2. A cloth dampened with cold water may be used on the indoor unit if it is too dirty.
3. Remove the front panel of indoor unit, clean it with water and wipe it up with a dry cloth.



CAUTION

- *Never use a damp cloth on the remote controller.*
- *Do not use a chemically-treated duster for wiping or leave such materials on the unit for long.*
- *Do not use benzine, thinner, polishing powder, or similar solvents for clean.*

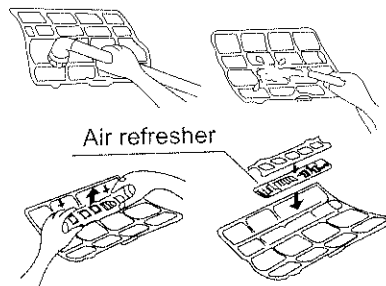
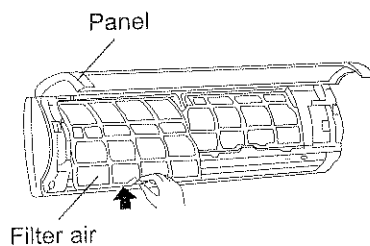
If you do not plan to use the unit for at least one month.

- 1) Operate the fan for about half a day to dry the inside of the unit.
- 2) Stop the air conditioner and disconnect power.
- 3) Remove the batteries from the remote controller.

Clean the cleaning filter and refreshing filter

Before you clean the air conditioner, be sure to disconnect the power supply plug.

It reduce the effect of cooling that the cleaning filter and refreshing filter are covered by dust.
So cleaning filter and refreshing filter should often be cleaned.



1. Open the panel and lift the panel up to the angle which remains fixed. Do not lift the panel any further when it stops with a clicking sound. Lift the raise part in the middle of the cleaning filter and pull it out downward.
2. Take the refreshing filter from the cleaning filter.
3. Clean the air cleaning filter with water or vacuum cleaner, then dry it in cool place.
4. Clean the air filter
 - **ACTIVE CARBON FILTER/ELECTROSTATIC FILTER**
Should be cleaned with much duct. Immerse the filter in water with the mild detergent for 20 minutes and wash it slightly(do not rub),then expose it under light to dry out for more than 3 hours. The filter should be replaced after cleaning 4~5 times.
 - **LIGHT CATALYST FILTER(gray)**
It Should be sunned every 3~6 months and replaced every 3~4 years. Clean it with a dry hairbrush, do not use water. Expose it under sunlight to dry out for 6~8 hours.
1. Install the refreshing filter back in position.
2. Insert the AIR FILTER from the top side into the unit until it is fixed thoroughly and close the front panel of the indoor unit tightly.

NOTE

You can buy the refreshing filter from the dealer located when you want to replace it. If you can not buy it you may not install it.

AIR CONDITIONER OPERATIONS AND PERFORMANCE

🔑 Compressor protection feature

This feature protects the compressor. This feature prevents the compressor from being activated for approximately 3 minutes when it restart immediately after operation or restore power again.

🔑 Power failure

- Power failure during operation will stop the unit completely. The OPERATION lamp on the indoor unit will start flashing when power is restored. To restart operation, push the ON/OFF button on the remote controller.
- Lighting or a car wireless telephone operating nearby may cause the unit malfunction. Disconnect the unit with the power and then connect the unit with the power again. Push the ON/OFF button on the remote controller to restart it.

Heating feature (cooling only type without)

- Preheating operation

The air conditioner will not deliver warm air immediately after it starts. Warm air flows out after approximately 5 minutes when the indoor heat exchange warms up.

Then the PRE-DEF lamp is off.

- Warm air control

When the room temperature reaches the set temperature, the fan speed is automatically reduced.

- Defrosting

If the outdoor unit is frosted during heating operation, defrost starts automatically (for approximately 5~10 minutes) to maintain the heating effect, the PRE-DEF lamp is on and the fans of the indoor unit and outdoor unit stop running.

- Heating capacity

During heating operation, heat is absorbed from outdoor and released into the room, that is so-called heat pump system. When the outdoor temperature is too low, the temperature of indoor unit outlet will fall.

OPERATING CONDITIONS:

Temp. \ Model	Cooling	Heating	Dehumidification
Indoor Temp.	17°C ~ 32°C	0°C ~ 30°C	17°C ~ 32°C
Outdoor Temp.	18°C ~ 43°C	-7°C ~ 24°C	11°C ~ 43°C

NOTE: 1. If use your air conditioner beyond above-mentioned conditions, protection function of air conditioner may work which may result in malfunction.

2. When the air conditioner is operated under "cooling" mode at the place with high humidity (relative humidity >80%) it may attract condensation and cause dripping. In this case turn the vertical louver to the position where the outlet is maximum (normal to the horizontal direction) and the fan speed is set "High".

INSTALLATION

Location

- Outdoor unit must be installed reliably.
- Select the position for the outdoor where it will not be subject to snow drifts, accumulation of leaves or other seasonal debris. It is important that flow for the outdoor unit is not impeded as this will result in reduction in heating or cooling performance.
- Please leave the indoor unit more than one meter away from the TV and the radio in order to avoid the picture and noise interference.
- Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner malfunction. Please consult the dealer where you purchased the air conditioner before installing it.
- Do not fix the unit in the dangerous region with combustible gas or volatile matter.
- If the air conditioner is operated in an atmosphere containing oil (machine oil), salt near a coastal area, sulfide gas near a hot spring etc, such substances may lead to corrosion of the air conditioner and reduce its operation life.
- While cooling operation the air conditioner get the wet air out of the room. Consequently, install a pipe connecting the pipe of the indoor unit to pipe all seep out.
- The cooling and heating unit defrosts in heating progress automatically. The water from indoor unit defrosting will flow out through under pan. Therefore install the outlet pipe according the installation guide.

Wire

- To avoid the electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don't change freely.
- If need be, use the power fuse or the circuit breaker of the corresponding scale ampere.
- Don't pull the power wiring hard.
- If the supply cord is damaged, it must be replaced by the manufacture or its service agent or a similarly qualified person in order to avoid a hazard.

Precaution

- Please fix the unit in the stable place to avoid the noise or vibration.
- Locate the outdoor unit where noise emitted by it or hot air from air outlet will not cause nuisance to your neighbours.
- If the air conditioner sounds abnormal during operation, contact the dealer where you purchased the air conditioner.

Relocation

If you move out or if it is desired to relocate the air conditioner, consult you dealer, because special skill to withdraw refrigerant, purge air and perform other operations are required.

TROUBLES AND CAUSES

Before you ask for servicing or repairs , check the following points.

Recheck	Require service
Inoperative <ul style="list-style-type: none"> • The power fuse is blown or the circuit breaker has been tripped. • The batteries in the remote controller are exhausted. • The timer is set. Does not cool or heat well <ul style="list-style-type: none"> • The air inlet or outlet of the outdoor unit is blocked. • Doors or windows are open. • The air filter is clogged with dust. • The louver is not at the correct position. • The temperature setting is too high or too low 	<p>If any of the following conditions occur, stop the air conditioner immediately, set to off the power switch, and contact the dealer.</p> <ul style="list-style-type: none"> • The indicator lamps flash rapidly(five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash. • Switch operations are erratic or remote controller can't receive signal. • The fuse is blown frequently or the circuit breaker is tripped frequently. • Foreign matter or water has fallen inside the air conditioner. Any other unusual conditioner is observed.

TROUBLES AND CAUSES (CONCERNING REMOTE CONTROLLER)

Symptoms	Cause	Reason
The fan speed can not be changed.	Check whether the MODE indicated on the display is "AUTO" or "DRY"	<ul style="list-style-type: none"> • When the automatic and dry mode is selected, air conditioner automatically selects the fan speed. • The fan speed can be selected during "COOL", "HEAT" and "FAN ONLY"
The TEMP indicator does not come on	Check whether the MODE indicated on the display is "FAN ONLY".	The temperature can not be set during fan only operation.
The timer indicators go off after a lapse of time	Check whether the timer operation is started when the ON TIMER is indicated on the display.	When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed	Check whether the signal transmitter of the remote controller is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed.	The transmitting part of the remote controller does not aim at the receiving part of indoor unit.

