

Split Type Inverter Room Air Conditioner OPERATION MANUAL

MODELS AY-X09LCJ AE-X09LCJ

AY-X12LCJ AE-X12LCJ AY-X18LCJ AE-X18LCJ

Thank you for choosing a SHARP air conditioner. Please read this manual thoroughly before using your air conditioner and keep it for future reference.



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NOTE: The figures in this manual may be different to the actual product.
This symbol stands for the items that should be prevented. This symbol stands for the items that should be followed
Do not dispose this product as unsorted municipal waste. Collection of such waste should be separated for special treatment as required by local regulations.

Please read the following carefully before operating

★The product should be installed by a licensed airconditioner contractor in accordance with AS/NZS3000:2000 and your electricity supplier's rules. This product is designed to operate on 220-240V AC, 50HZ. Operating outside of these limits may cause damage to the product.

★For safety, be sure to turn the product off at the circuit breaker before performing any maintenance or cleaning or when the product is not used for extended periods

★ There are local council rules regarding the maximum allowable noise levels emitted by air conditioner units. Check with your local council before installation.



★ Don't leave windows and doors open for

a long time while operating the air conditioner.

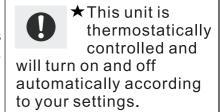
It can decrease the air conditioning capacity.

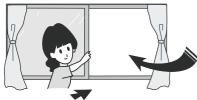


★ Don't block the air intake or outlet vents

of both the outdoor and indoor units.

It can decrease the air conditioning capacity or cause a malfunction.









the air conditioner operation (eg burning smell or noise), turn the unit off immediately and disconnect from the power supply.

anything

abnormal with



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★ Keep combustilble materials away from the units by at least 1m.



It can cause a fire or explosion

Don't attemtp to repair the air conditioner by yourself



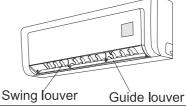
Incorrect repairs could cause the risk of electric shock or fire. Please contact your local Sharp Approved Service Centre.

Notices for operation

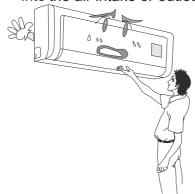
★ Please don't cut off or damage the power cords and control cords.

If they are damaged, please refer the matter to a qualified air conditioner contractor.

★ To change the airflow direction, adjust the vertical and lateral air flow direction by using the remote control.



★ Don't insert your hands or objects into the air intake or outlet vents.



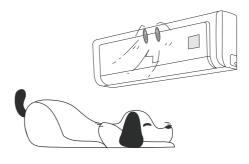
★ Don't exp ose yourself to cold output air for prolonged periods as it may affect your physical condition.



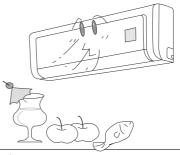
★ Splashing water on the air conditioner can cause an electric



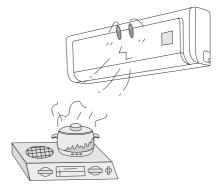
Don't expose animals and plants directly to the output air flow as it may have a detrimental effect on them.



This air conditioner is designed for normal residential use. Do not use for any other purpose such as food preservation or drying clothes.



Don't place a space heater or cooking appliances near the air conditioner.



Notices for use

Working principle and special functions for cooling

Principle:

Air conditioners absorb heat in the room and transmits it to the outdoor unit, so that indoor ambient temperatures are decreased. Its cooling capacity will increase or decrease according to outdoor ambient temperature.

Anti-freezing function

If the unit is running in COOL mode and in low ambient temperature, frost may be formed on the heat exchanger. When indoor heater exchanger temperature decreases below zero, the indoor unit microcomputer will stop the compressor running to protect the unit.

Working principle and special functions for heating

Principle:

* Air conditioners absorb heat from outdoors and transmit it to the indoor unit, increasing room temperature. Heating capacity will decrease in lower ambient temperatures.

Defrosting:

- * When outdoor temperature is low but high humidity, frost may form on the outdoor unit during extended operation, affecting heating efficiency. The air conditioner operation may stop for 8-10mins during auto defrosting function.
- * During the auto defrosting, the fan motors of indoor unit and outdoor unit will stop.
- * During auto defrosting, the indoor indicator flashes and the outdoor unit may emit vapour. This is not a malfunction.
- * After defrosting has finished, the heating operation will recover automatically.

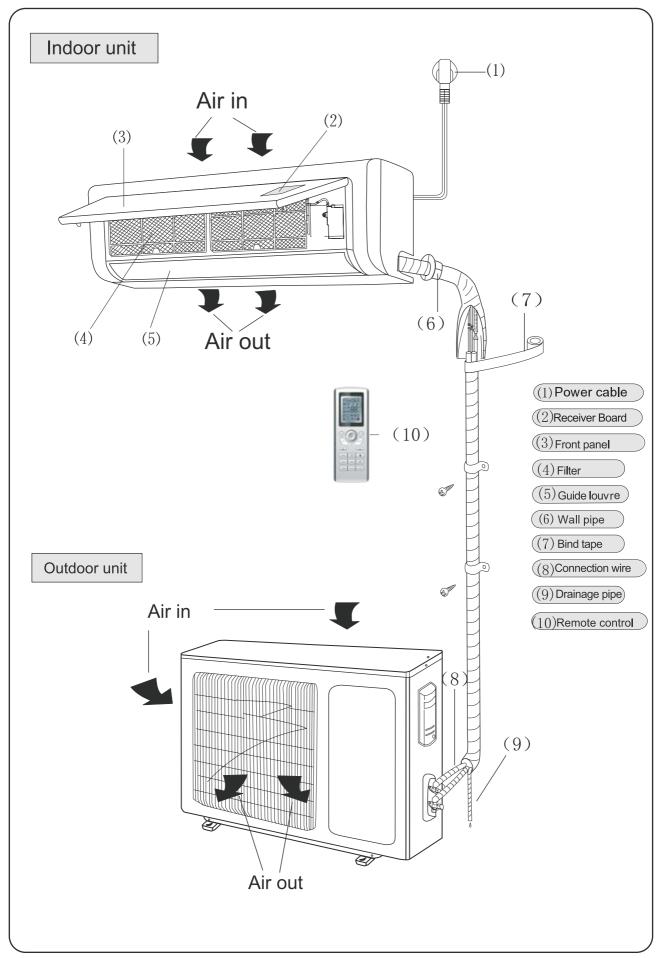
Anti-freezing function:

In "HEAT" mode, if in the following situations, the operation of indoor unit maybe delayed until the heat exchanger has achieved a certain temperature.

(Within 3mins)

1. Heating starts. 2. After Auto defrosting finished. 3. Heating under the low temperature.

Name and function of each part



Name and function of wireless remote control

Note: Be sure that there are no obstructions between receiver and remote control; Don't drop or throw the remote control; Don't spill any liquid on the remote control; Don't leave remote control directly in sunlight or hot environments.

Signal transmitter



Remote control

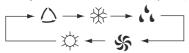
ON/OFF button

Press this button to turn unit on or off.
 Sleep function will be cancelled if unit is turned off.

MODE

MODE button

• Press this button to select between Auto, Cool, Dry, Fan and Heat modes. Auto mode is the default when switched on.
Under Auto mode, the temperature will not be displayed; Under Heat mode, the initial value is 28 °C (82 °F); Under other modes, the initial value is 25 °C (77 °F).



AUTO

₩ COOL

DRY

S FAN

₩ HEAT

(only for cooling and heating unit)

SLEEP

SLEEP button

 Pres s this button to turn Sleep mode on or off. Sleep mode "off" is default when switched on. Sleep function is cancelled when unit is switched off. Sleep mode duration can be adjusted. Sleep mode is not available under Fan and Auto modes.

FAN

FAN button

 Press this button to select between Auto, Low, Middle and High speed fan settings. Auto fan speed is default when unit switched on.

Under Blow mode, Low fan speed only can be set up.



CLOCK

CLOCK button

 Press this button to set clock function. the clock symbol @ will blink and display. Within 5 seconds, the time can be adjusted by pressing + or - button. Press button continuously for rapid time change. During blinking, press confirm button or clock button again to complete time setting.

TEMP

TEMP button

 Press this button to select between: setting desired temperature, display indoor ambient temperature, display outdoor ambient temperature.



Name and function of wireless remote control

This wireless remote control is universal, and it could be used for many units. Some buttons on this control are not applicable to this unit.



Remote control

BLOW

BLOW button

 Press this button to select or cancel Blow mode. Blow 'off' is default when unit is switched on.

If operating ON/OFF button and changing mode to Cool, Dry, the status of BLOW will stay in the original position. This function is not available under the Auto, Fan and Heat mode and there is no Blow signal displayed.

TURBO 1

TURBO button

 Under Cool or Heat mode, pressing this button turns on or off the Turbo function. After the turbo function is turned on, the Turbo signal is displayed. The signal will be automatically cancelled if changing the mode or fan speed,

+ button

 Preset temperature is increased by pressing this button. Continuously pressing and holding for 2 seconds changes the temperature rapidly.

The temperature adjustment is unavailable under the Auto mode.

- button

 Preset temperature is decreased by pressing this button. Continuously pressing and holding for 2 seconds changes the temperature rapidly. The temperature adjustment is unavailable under the Auto Mode.

LIGHT

LIGHT button

Pres s this button to turn light On or Off.
 Light On is default when unit is switched on.

Name and function of wireless remote control

This wireless remote control is universal, and it could be used for many units. Some buttons on this control are not applicable to this unit.



Remote control

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SWING UP AND DOWN BUTTON

 Press this button to select swing angle as below:

This remote controller is universal.

The functions below are not applicable to this model.

If guide louvre is stopped when it is swinging up and down,it will remain in its present position.

indicates guide louvre swings back and forth in the five directions, as shown in the figure.

TIMER ON

TIMER ON BUTTON

Press this button to select Timer On setting. Pressing the + or - button during the first 5 seconds adjusts the time value by one minute each time pressed. Holding the + or - button down for more than 2 seconds changes the time rapidly. While time is blinking, press Timer On button to confirm setting. After setting, repressing the Timer On button cancels the operation.

TIMER OFF

TIMER OFF BUTTON

One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the same as for TIMER ON.

I FEEL

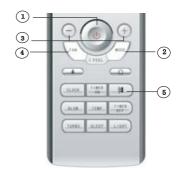
I FEEL BUTTON

Press this button once, to turn on the IFEEL function, When the "IFEEL" symbol is displayed the remote control will send a temperature reading to the wall unit every 10 minutes. Press the "IFEEL" button again to cancel operation.



Guide for operation-general operation

- 1. Press On/Off button to start or stop operation. (Note: When it is powered off, the guide louvre of main unit will close automatically.)
- 2. Press MODE button to select desired running mode, or press COOL or HEAT mode to enter into the corresponding operation directly.
- 3. Press + or button, to set the desired temperature (It is unnecessary to set the temp. at AUTO mode.)
- 4. Press FAN button to set fan speed to AUTO FAN, LOW, MID and HIGH.
- 5. Press | button, to select the swing.



Guide for operation- Optional operation

- 1. Press SLEEP button, to set sleep.
- 2. Press TIMER ON and TIMER OFF button to set the scheduled timer on or timer off.
- 3. Press LIGHT button to switch On or Off the display on the main unit. (This function may be not available for some models).
- 4. Press TURBO button to switch ON and OFF.



Introduction for special function

* About BLOW function

This function indicates that the fan will continue to blow after the unit is stopped to remove moisture on evaporator of indoor unit to avoid mould.

- 1. Having set **BLOW** function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for about 10 min. at low speed. In this period, press **BLOW** button to stop indoor fan directly.
- 2. Having set **BLOW** function off: After turning off the unit by pressing ON/OFF button, the **BLOW** function is not operated.

★ About AUTO RUN

When AUTO RUN mode is selected, the set temperature will not be displayed on the LCD, the unit senses the room temperature automatically to select a suitable running method for room comfort.

★ About TURBO function

When TURBO mode is selected the unit will run at super-high fan speed to cool or heat quickly so that the ambient temp. approachs the preset temp. as soon as possible.

Operation of wireless remote control

About lock

Press +and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon image will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

★ About swing up and down

- 1. To set the guide louvre to a desired position, press Swing Up and Down button continuously for more than 2 seconds and hold until desired position is achieved. Releasing the button now stops the swinging at the desired position.
- 2. After Swing Up and Down mode is switched on, pressing the button again within 2 seconds circulates between the various settings. If button is pressed more than 2 seconds later, the function is switched off.

* About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

★ About defrosting

If Defrost function has been selected, it will continue even if the unit is switched off by the remote control. If settings are changed, they will only be carried out after defrosting is finished.

To turn defrost function On or Off press Mode button and Blow button simultaneously when remote control is powered off. When the unit is under defrost mode, remote controller will display H1. If heat mode is selected, the position will display H1, which flickers for 5s, in which case, pressing +/- button, H1 will disappear and setting temp. will be displayed.

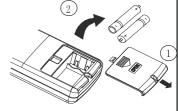
After remote controller is powered on, the defrost function will be switched off.

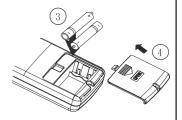
Changing batteries

- 1. Remove the battery cover plate from the rear of the remote control. (As shown in the figure).
- 2. Take out the old batteries.
- 3. Insert two new AAA1.5V dry batteries, and pay attention to the polarity.
- 4. Replace the battery cover plate.

★ NOTE:

- When changing the batteries, do not use old or different batteries, otherwise, it can cause malfunction of the wireless remote control.
- If the wireless remote control will not be used for a long time, please remove batteries to prevent damage from leaking batteries.
- If the wireless remote control does not operate normally, please take the batteries out and replace them after 30 seconds. If still not operating properly, replace the batteries.





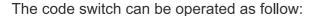
Sketch map for changing batteries

Emergency Operation

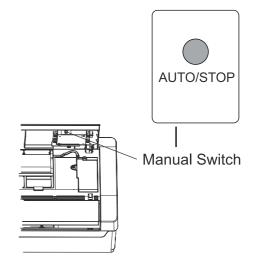
When the wireless remote control is lost or damaged, please use the manual switch on the main unit. Operation will be in Auto Run mode and the temperature setting or fan speed cannot be changed.

The manual switch can be operated as follow:

- To operate: Press the AUTO/STOP button and the unit will enter into AUTO RUN mode.
 The microcomputer will monitor the room temperature to select the (COOL, HEAT, FAN) mode automatically, to obtain the comfortable effect.
- To turn off: Press the AUTO/STOP button to switch the unit off.



- To operate: Adjust the code switch to AUTO and the unit will enter into AUTO RUN mode.
 The microcomputer will monitor the room temperature to select the (COOL, HEAT, FAN) mode automatically, to obtain the comfortable effect.
- To turn off: Adjust the code switch to STOP position to switch the unit off.



Care and Cleaning



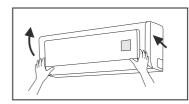
CAUTION

- Turn power off at the circuit breaker before cleaning the air conditioner to prevent the risk of electric shock.
- Never pour or spray liquids directly onto the indoor or outdoor units for cleaning, to prevent risk of electric shock.
- Volatile liquid (e.g. thinners or gasoline) will damage the air conditioner. (Only wipe the units with a dry soft cloth, or a cloth slightly moistened with water or cleanser.)

Cleaning the front panel

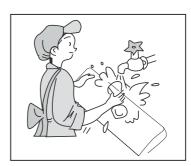
1 Take off the front panel

Rotate the front panel upwards in the direction of the arrow. While holding both sides of the front panel, remove by pulling forwards. Some minor force may be required.



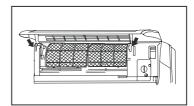
2 Washing

Clean with a soft brush, water and neutral detergent and then dry it.(Note: Before cleaning, remove the LCD display (if fitted) from the front panel. Never use water above 45 °C to wash the panel, or it could cause deformation or discolouration.)



③ Install front panel

Align and insert the two support lugs of the front panel into the slots, then rotate downwards, as shown in the figure.



Cleaning the air filters

It is recommended to clean the filters every three months. More frequent cleaning is required in dusty environments. After removing the filters, take care to avoid touching the fins of the condenser unit, to avoid injury.

Care and Cleaning

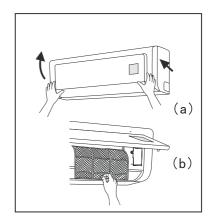
① Removing the air filter

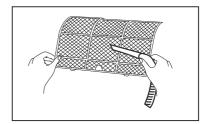
Rotate the front panel upwards in the direction of the arrow. Pull the air filter downwards and remove from the unit.

2 Cleaning

To clean the dust adhering to the filters, you can either use a vacuum cleaner, or wash them with warm soapy water (water temperature should be below $45\,^{\circ}$ C) and leave to dry naturally in a shady location.

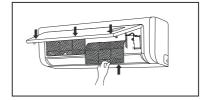
NOTE: Never use water above 45 °C to wash, or it can cause deformation or discolouration. Never dry it with a heater or open flame, as fire or deformation may occur.





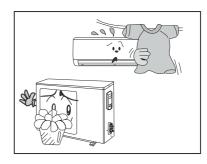
3 Reinsert the filters

Reinsert the filters in the direction of the arrows, then close the front panel.



Check before use

- 1) Be sure that nothing obstructs the air outlet and intake vents.
- ② Never operate the unit if the wiring or connections have been damaged.
- ③ Check whether the installation stand of the outdoor unit is damaged or not. If damaged, please report to a licenced contractor.





Troubleshooting



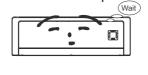
The air conditioner is not user serviceable. Incorrect repair may cause electric shock or fire, so please contact an Authorized Service Center for professional repair. Following checks prior to contact may save your time and costs.

Symptom

Troubleshooting

Air conditioner does not run if attempt to immediately restart after a stop.





 To protect the air conditioner upon immediate restart after a stop, the microcomputer controller will delay the unit for 3 minutes before the air conditioner will run.

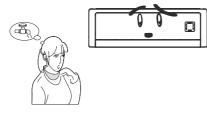
Air conditioner blows out bad smell when it is initially started.



The air conditioner itself has no bad smell.
 If a bad smell has been accumulated from the environment, clean the air filter.

• If smells persist, contact your Approved Service Centre to arrange cleaning.

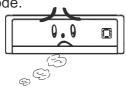
You may hear "Water Flowing" noise



• When the air conditioner is started, or the compressor is started or stopped during running or the air conditioner is stopped, sometimes you may hear fluid gurgling noises. This is not a fault - it is the sound of flowing refrigerant.

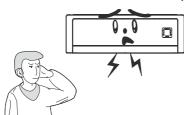
Sometimes a thin mist will flow out of the outlet when air conditioner is running under cooling mode.





 This might occur when indoor temperature and humidity are high. This is because the indoor air is quickly cooled down.
 After a period of time, the mist will disappear with the decrease of indoor temperature and humidity.

You may hear a slight cracking sound when the air conditioner is started or stopped.



 This is the sound of friction caused by expansion and/or contraction of panel or other parts due to the change of temperature.



Troubleshooting	
Symptom	Troubleshooting
The unit will not run	Has the power been shut down?
The drift Will Het fall	Has the circuit breaker device tripped off?
	 Have the wiring or connections been damaged?Please report to an authorised air conditioner contractor.
Break off)	Is the Timer correctly used?
Cooling(Heating) efficiency is not good.	● Is Temp. setting suitable?
	Are inlet and outlet vents obstructed?
	• Is there too much dust accumulated and obstructing the filter?
	● Are the windows and doors closed?
	● Is the fan speed_set at low speed?
	• Are there any other heat sources in the room?
Wireless remote control is not working	Check that there is no magnetic or electrical interference near the main unit that may be affecting the operation of the controller.
	 Is the wireless remote control within its operating range, or obstructed? Check the condition of the batteries and replace if necessary.
	 Check if the wireless remote control is damaged.
Water is dripping or leaking from the indoor unit	 The air humidity is on the high side. Condensing water has overflowed. The connection of indoor unit drainage pipe has been loosened.
Water is dripping or leaking from the outdoor unit	 When the unit is running in COOL mode, water condensation occurs naturally around the pipe and connections. When the unit is running in Auto Defrosting mode, some ice has thawed and flowed out. When the unit is running in HEAT mode, some water adhered on the heat exchanger has dripped out.
Noise from indoor unit.	Fan or compressor relay is switching on or off.
	 When defrosting is started or stopped, there is a sound of refrigerant flowing in the reverse direction.



Troubleshooting

Symptom	Troubleshooting
Indoor unit cannot deliver air	 In HEAT mode, when the temperature of indoor heat exchanger is very low, air flow is stopped in order to prevent cool air. (Within 3min) In HEAT mode, when the outdoor temperature is low or high humidity, frost can be formed on the outdoor heat exchanger. The unit will automatically defrost and the indoor unit will stop blowing air for 3-12 mins. During defrost operation, water or vapour may be emitted. In dehumidifying mode, sometimes the indoor fan will stop, in order to avoid condensingwater being vaporised again.
Moisture on air outlet vent	 If unit is running under high humidity for a long time, moisture will be condensed on the air outlet grill and may drip off.



Immediately stop all operations, disconnect from the power supply, and report to an authorised air conditioner contractor in the following situations.

- There is harsh sound during operation
- Strong odours are emitted during operation
- Water is leaking in the room
- Circuit breaker continuously trips off.
- Water has dripped into or been splashed onto the unit.
- Power leads or connections have been damaged.

Stop running and disconnect from power supply.



Installation service- Notices for installation



Important Notices

- 1. The unit must only be installed by authorised air conditioner contractors according to municipal or government regulations and in compliance with this manual.
- 2 The unit should be installed with a dedicated electrical circuit, and a circuit breaker should be fitted in accordance with regulations.

Basic Requirements For Installation Position

Proper installation position is vital for correct and efficient operation. Avoid the following positions:

- Where strong heat sources vapours, flammable gas or volatile liquids are emitted
- Where high-frequency electro-magnetic waves are generated by radio equipment, welders and medical equipment.
- Where salt-laden air is a problem (such as close to coastal areas).
- Where the air is contaminated with industrial vapours and oils.
- Where the air contains sulphured gas such as in hot spring zones.
- Other environments where corrosion or air quality is a problem.

Indoor Unit Installation Position Selection

- 1. The air inlet and outlet vent should be away from any obstruction. Ensure the air can be blown through the whole room.
- 2. Select a position where the condensing water can be easily drained out, and where it is easily connected to the outdoor unit.
- 3. Select a location where children can not reach.
- 4. Select the place where the wall is strong enough to withstand the full weight and vibration of the unit, and will not increase the noise.
- 5. Be sure to leave enough space to allow access for routine maintenance. The height of the installed location should be 1.8m above the floor.
- 6. Select a place about 1m or more away from TVset or any other electric appliances.
- 7. Select a place where the filter can be easily taken out.
- 8. Make sure that the indoor unit is installed in accord with the installation instructions.

Outdoor Unit Installation Position Selection

- 1. Select a location from which noise and outflow air emitted by unit will not inconvenience neighbours, animals, plants.
- 2. Select a location where there is sufficient ventilation.
- 3. Select a location where there is no obstructions which will cover the inlet and outlet vents.
- 4. The location should be able to withstand the full weight and vibration of the outdoor unit and permit safe installation.
- 5. Select a dry place, but do not expose under the direct sunlight or strong wind.
- 6. Make sure that the outdoor unit is installed in accord with the installation instructions, and is convenient for maintenance and repair.
- 7. The height difference between indoor and outdoor units is within 5 metres, and the length of the connecting tubing does not exceed 10 metres.
- 8. Select a place where it is out of reach for the children.
- 9. Select a place which will not block pedestrian passage and does not influence the city appearance.

Safety Requirements For Electric Appliances

- 1. A dedicated power supply circuit should be used, in accordance with local electrical safety regulations.
- 2. The product should be installed by a licenced air conditioning contractor in accordance with AS/NZS3000 and your electrical supplier's rules.

 A circuit breaker should be installed.
- 3. The min. distance from the unit and combustive surface is 1.5m.

WARNING: inadequate or incorrect electrical connections may cause electrocution or fire.

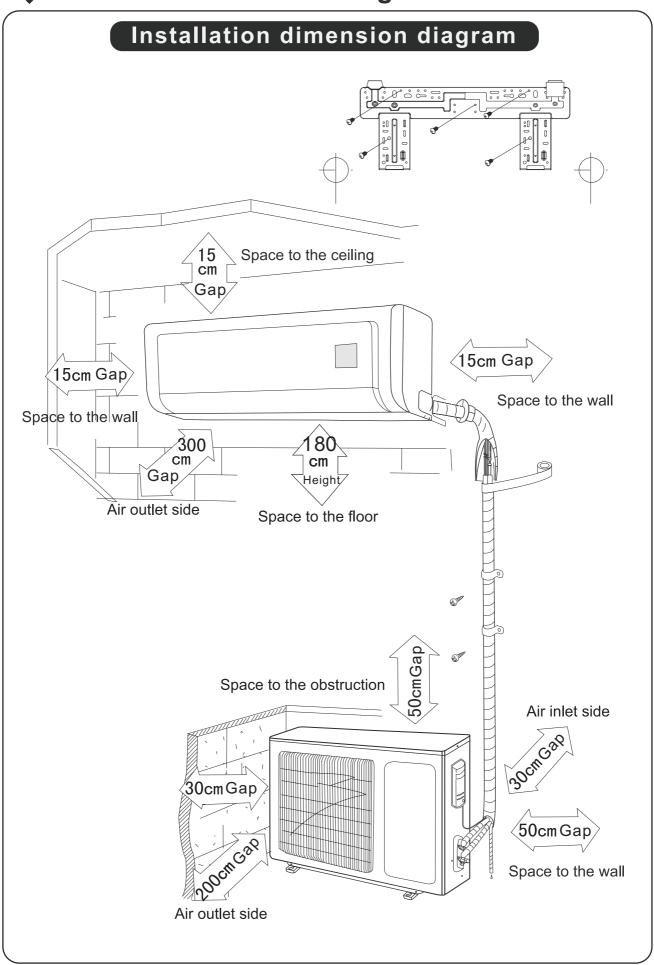
Earthing requirements

- 1. Air conditioner is type I electric appliance. Please ensure the the unit is reliably earthed.
- 2. The yellow-green two-color wire in the air conditioner is the earthing wire, and cannot be used for any other purpose. Improper earthing may cause electrocution.
- 3. The unit must be reliably earthed in accordance with AS/NZS3000.

Others

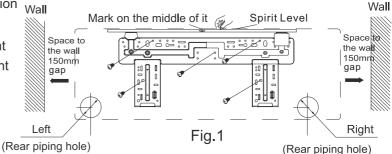
- 1. The connection method of unit and power cable as well as the interconnect method of each isolated component should refer to the circuit diagram sticker on the unit.
- 2. The model of the blown fuse and rated value should refer to the silk-screen on the controller or fuse sleeve.
- 3. The appliance shall be installed in accordance with AS/NZS3000 and your electrical supplier's rules.
- 4. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 5. Children should be supervised to ensure that they do not play with the appliance.
- 6. If the supply cord is damaged, it must be replaced by the manufacturer, its Approved Service Centre or similarly qualified persons in order to avoid a hazard.

♦ Installation dimension diagram



Install the rear panel

- 1.Always mount the rear panel horizontally. As the water drainage pipe is at the left, the right side should be slightly higher to allow drainage.
- 2. Fix the rear panel on the selected location $_{\text{Wall}}$
- 3. Be sure that the rear panel has been fixed firmly enough to withstand the weight of an adult of 60kg, furthermore, the weight should be evenly shared by each screw.



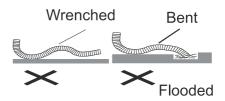
Install the piping hole

- 1. Make the piping hole in the wall at a slight downward slant to the outdoor side.
- 2. Insert the piping-hole sleeve into the hole to prevent the connection wall pipe piping and wiring from being damaged when passing through the hole.



Install the water drainage pipe

- 1. For proper draining, the drain hose should be placed at a downward slant.
- 2. Do not wrench or bend the drain hose or flood its end by water.
- 3. Drainage hoses passing through indoor areas should be wrapped with insulation material.



Connect indoor and outdoor electric wires

- 1. Open the front panel by rotating upwards.
- 2. Remove the electrical connection cover plate and screw.
- 3. Put the power connection cable through the hole in the back of indoor unit.
- 4. All the wiring should be connected according to the circuit diagram on the unit.
- 5. Put the power connection cable into the wire groove provided, and replace the cover plate, using the fixing screw.
- 6. Replace the front panel cover.
- 7. For the cooling and heating unit, the signal control wire can be passed through the connection of connector and indoor unit. Using the wire clip that is under the body case, tighten the signal control wire.



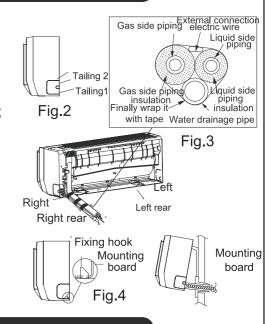
NOTE:

All interconnecting wiring between indoor and outdoor unit must be performed by a licenced electrical contractor in accordance with AS/NZS3000.

- The electrical wiring must be correctly connected, wrong connection may cause the unit to malfunction.
- Tighten the terminal screws adequately to prevent loosening.
- After tightening the screws, slightly pull the wire and confirm whether is it firm or not.
- Ensure the electrical connections are properly earthed to prevent electrical shocks.
- Ensure all wiring connections are secure and the cover plates are reinstalled properly. Poor installations that allow dust or moisture incursion may cause fire or electrocution.
- A circuit breaker of adequate capacity should be installed at the switchboard.

Install the indoor unit

- The piping can be output from right, right rear, left. left rear.
- 1. When routing the piping and wiring from the left or right side of indoor unit, cut off the tailings from the chassis as necessary (show in Fig.2) (1). Cut off the tailings 1 when routing the wiring only;
 - (2). Cut off the tailings 1 and tailings 2 when routing both the wiring and piping (or 1.2.3):
- 2. Take out the piping from body case, wrap the piping electric wire, and water pipe with tape and put them through the piping hole (As show in Fig. 3)
- 3. Hang the mounting slots of the indoor unit on the upper tabs of the rear panel and check if it is firm enough (As show in Fig.4)

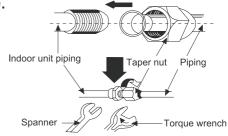


Install the connection pipe

- 1. Align the center of the piping flare with the relevant valve.
- 2. Screw in the flare nut by hand and then tighten the nut with spanner and torque wrench referring to the following table.

Tightening torque table

Hex nut diameter	Tightening torque (Nm)
Ф 6	15~20
Φ 9. 52	31~35
Ф 12	50~55
Ф 16	60~65
Ф 19	70~75



NOTE: Firstly connect the connection pipe to indoor unit, then to outdoor unit; pay attention to the piping bending, do not damage the connection pipe; ensure the joint nut is adequately tightened, otherwise it may cause leakage.

Installing the Outdoor Unit

Electric Wiring

- 1. Remove electrical connection access plate (either right hand side or front) from the outdoor unit.
- 2. Take off wire clamp, connect and fix power connect cord to terminal of line bank. Wiring should fit that of indoor unit.
- 3. Fix the power connection cable with wire clamp, for cooling and heating unit, then use the wire clamp to fix the signal control wire, then connect the corresponding connector.
- 4. Ensure if wire has been fixed well.
- 5. Replace access plate (either right hand side or front) on the outdoor unit.

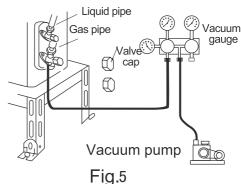
NOTE:

- Incorrect wiring may cause unit failure.
- After the cable has been fitted, make sure there is free space between the connection and fixing place on the lead wire.

Air purging and leakage test

Air purging and leakage test

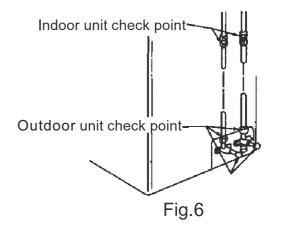
- Connect charging hose of manifold valve to charge end of low pressure valve (both high/low pressure valves must be tightly shut).
- 2. Connect joint of charging hose to vacuum pump.
- 3. Fully open handle of Lo manifold valve.
- 4. Open the vacuum pump to evacuate. At the beginning, slightly loosen joint nut of low pressure valve to check if there is air coming inside. (If noise of vacuum pump has been changed, the reading of multimeter is 0) Then tighten the nut.
- 5. Keep evacuating for more than 15mins and make sure the reading of multi-meter is $-1.0\times10^5 pa$ (-76cmHg).
- 6. Fully open high/low pressure valves.
- 7. Remove charging hose from charging end of low pressure valve.
- 8. Tighten bonnet of low-pressure valve. (As shown in Fig.5)



Installing the Outdoor Unit

Leak hunting

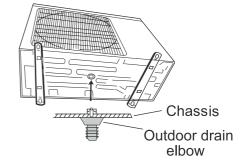
Use soapy water or gas detection meter to check whether the joints are leaking.



Outdoor condensation drainage (Heat pump type only)

When the unit is heating, the condensing water and defrosting water can be drained out reliably through the drain hose.

Installation: Install the outdoor drain elbow in Ø 25 hole on the base plate, and attach the drain hose to the elbow, so that the waste water formed in the outdoor unit can be drained out satisfactorily.



Check after installation and test operation

Check after installation

Items to be checked	Possible malfunction
Has it been fixed firmly?	The unit may drop, shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient cooling(heating) capacity.
Is heat insulation sufficient?	It may cause condensation and dripping.
Is water drainage satisfactory?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage to the product.
Is the electric wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the product.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Are the inlet and outlet air openings blocked?	It may cause insufficient cooling(heating) capacity.
Is the quantity of gas charge sufficient for the length of pipe run?	The refrigerant capacity may be insufficient.

Test Operation

1. Before test operation

- (1) Do not switch on power before installation is finished completely.
- (2) Electric wiring must be connected correctly and securely.
- (3) Cut-off valves of the connection pipes should be opened.
- (4) All the impurities such as scraps and thrums must be cleared from the unit.

2. Test operation method

- (1) Switch on power, press "ON/OFF" button on the wireless remote control to start the operation.
- (2) Press MODE button, to select the COOL, HEAT, FAN to check whether the operation is normal or not.

Specifications

Model		AY-X09LCJ; AE-X09LCJ	
Function		Cooling	Heating
Rated Voltage (V)		220-240	
Frequen	cy (Hz)	50	0
	pacity (W) (High/Standard): pacity (Btu/h) (High/Standard):	2600/1188 9000/4063	2805/1109 9800/3792
Power In	nput (W) (High/ Standard/Low):	1200/610/264	1250/670/230
Rated In	put (W)	610	670
Rated Co	urrent (A)	5.5	6
Air Flow	Volume (m³/h)	45	50
Dehumid	difying Volume (I/h)	0.	8
EER/C.	O.P (W/W)	4.25	4.22
Energy Class A/		A	
	Model of Indoor Unit	AY-X09LCJ	
	Fan Motor Speed (r/min) (H/M/L)	1100/950/820	
	Output of Fan Motor (W)	10	
	Fan Type-Piece	Cross flow fan - 1	
	Diameter-Length (mm)	Ф 85 X 668	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	φ7	
	Row-Fin Gap(mm)	2-1.5	
Indoor Unit	Coil length (I) x height (H) x coil width (L)	657X285X25.4	
	Swing Motor Model	MP28VB	
	Output of Swing Motor (W)	2	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (S/H/M/L)	42/38/30/28	
	Sound Power Level dB (A) (S/H/M/L)	53/47/40/38	
	Dimension (W/D/H)(mm)	872X178X283	
	Dimension of Package (W/D/H)(mm)	935x260X375	
	Net Weight /Gross Weight (kg)	12/15	

	Model of Outdoor Unit	AE-X09LCJ
	Compressor	SANYO
	Manufacturer/trademark	0.007440144
	Compressor Model	C-6RZ110H1A
	Compressor Type	Twin rotary
	L.R.A. (A)	33
	Compressor RLA(A)	4.59
	Compressor Power Input(W)	800
	Overload Protector	Int11I-3979
	Throttling Method	Capillary throttling
	Starting Method	Transducer starting
	Working Temp Range (℃)	-7℃≤T≤43℃
	Condenser	Aluminum fin-copper tube
	Pipe Diameter (mm)	9.52
	Rows-Fin Gap(mm)	2-1.4
	Coil length (I) x height (H) x coil width (L)	608X508X44
	Fan Motor Speed (rpm)	830±20
	Output of Fan Motor (W)	30
Outdoor unit	Air Flow Volume of Outdoor Unit (m³/h)	1800
	Fan Type-Piece	Axial fan -1
	Fan Diameter (mm)	400
	Defrosting Method	Auto defrost
	Climate Type	T1
	Isolation	1
	Moisture Protection	IP24
	Permissible Excessive Operating	
	Pressure for the Discharge Side(MPa)	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	1.2
	Sound Pressure Level dB (A) (H/M/L)	54
	Sound Power Level dB (A) (H/M/L)	64
	Dimension (W/D/H)(mm)	848X320X540
	Dimension of Package (W/D/H)(mm)	878X360X590
	Net Weight /Gross Weight (kg)	40/45
	Refrigerant Gas & Charge (kg)	R410A / 1.1

Model		AY-X12LCJ; AE-X12LCJ	
Function		COOLING	HEATING
Rated Voltage (V)		220-24	10V~
Frequenc	cy (Hz)	50)
Total Cap	pacity (W) (High/Standard):	3500/ 1233	3850/830
	pacity (Btu/h) (High/ Standard):	12000/4200	13000/2830
	put (W) (High/ Standard/Low)	1400/1000/262	1450/1066/233
	out (W) (High/ Standard)	1000	1066
	ırrent (A) (High/ Standard)	6	6.3
	Volume (m³/h)	50	
	ifying Volume (I/h)	1.2	
	O.P (W/W)	3.51	3.61
Energy C		A	
	Model of Indoor Unit	AY-X12LCJ	
	Fan Motor Speed (r/min) (S/H/M/L)	1150 /10501/900	
	Output of Fan Motor (w)	10	
	Fan Type-Piece	Cross flow fan - 1	
	Diameter-Length (mm)	Φ 85 X 668	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)	φ7	
	Row-Fin Gap(mm)	2-1.5	
Indoor	Coil length (I) x height (H) x coil width (L)	657X285X25.4	
unit	Swing Motor Model	MP28VB	
	Output of Swing Motor (W)	2	
	Fuse (A)	PCB 3.15A Tra	nsformer 0.2A
	Sound Pressure Level dB (A) (S/H/M/L)	42/ 38 / 30/28	
	Sound Power Level dB (A) (S/H/M/L)	53/ 47/ 40/38	
	Dimension (W/D/H)(mm)	872X178X283	
	Dimension of Package (W/D/H)(mm)	935x260X375	
	Net Weight /Gross Weight (kg)	12/15	

	Model of Outdoor Unit	AE-X12LCJ
	Compressor Manufacturer/trademark	SANYO
	Compressor Model	C-6RZ110H1A
	Compressor Type	Twin rotary
	L.R.A. (A)	33
	Compressor RLA(A)	4.59
	Compressor Power Input(W)	800
	Overload Protector	Int11I-3979
	Throttling Method	Capillary throttling
	Starting Method	Transducer starting
	Working Temp Range (℃)	-7℃≤T≤43℃
	Condenser	Aluminum fin-copper tube
	Pipe Diameter (mm)	9.52
	Rows-Fin Gap(mm)	2-1.4
	Coil length (I) x height (H) x coil width (L)	608X508X44
	Fan Motor Speed (rpm)	830±20
Outdoor	Output of Fan Motor (W)	30
unit	Air Flow Volume of Outdoor Unit (m³/h)	1900
	Fan Type-Piece	Axial fan -1
	Fan Diameter (mm)	400
	Defrosting Method	Auto defrost
	Climate Type	T1
	Isolation	l
	Moisture Protection	IP24
	Permissible Excessive Operating	3.8
	Pressure for the Discharge Side(MPa)	0.0
	Permissible Excessive Operating	1.2
	Pressure for the Suction Side(MPa)	
	Sound Pressure Level dB (A) (H/M/L)	54
	Sound Power Level dB (A) (H/M/L)	64
	Dimension (W/D/H)(mm)	848X320X540
	Dimension of Package (W/D/H)(mm)	878X360X590 40/45
	Net Weight /Gross Weight (kg)	R410A/1.27
	Refrigerant Gas & Charge (kg)	K41UA/1.27

Model		AY-X18LCJ; AE-X18LCJ	
Function		COOLING HEATING	
AC Rated	Voltage (V)	220-240V~	
	equency (Hz)	Ę	50
	eacity (W) (High/Standard):	5300/1610	5600/1217
	acity (Btu/h) (High/Standard):	18000/5500	19100/4150
Power Inp		2100/1540/370	2300/1610/398
Rated Inp		1540	1610
Rated Cu		10.7	11.5
	Volume (m³/h)		70
	fying Volume (I/h)		3.0
	D.P (W/W)		1/3.48
Energy C			A
	Model of Indoor Unit		18LCJ
	Fan Motor Speed (r/min) (H/M/L)	1200/1050/900 1250/1150/1000	
	Output of Fan Motor (w)	20	
	Fan Motor Capacitor (uF)	1	
Fan Motor RLA(A)		0.4 Cross flow fan – 1	
	Fan Type-Piece		
	Diameter-Length (mm)	φ 96 X 797	
	Evaporator	Aluminum fin-copper tube	
	Pipe Diameter (mm)		₽7
Indoor	Row-Fin Gap(mm)	2-	1.6
unit	Coil length (I) x height (H) x coil	785X340.51X25.4	
	width (L)		
	Swing Motor Model	MP35XX	
	Output of Swing Motor (W)	2.5	
	Fuse (A)	PCB 3.15A Transformer 0.2A	
	Sound Pressure Level dB (A) (H/M/L)	45/43/38	
	Dimension (W/H/D) (mm)	830/206/285	
	Dimension of Package (L/W/H) (mm)	1035X390X280	
	Net Weight /Gross Weight (kg)	12/15	

	Model of Outdoor Unit	AE-X18LCJ
	Compressor Manufacturer/trademark	SANYO
	Compressor Model	C-6RVN93H0N
	Compressor Type	twin rotary
	L.R.A. (A)	41
	Compressor RLA(A)	7
	Compressor Power Input(W)	1610
	Overload Protector	1NT11L-3979
	Throttling Method	Capillary
	Starting Method	Capacitor
	Working Temp Range (℃)	-7℃≪T≪43℃
	Condenser	Aluminum fin-copper tube
	Pipe Diameter (mm)	7
	Rows-Fin Gap(mm)	2-1.4
	Coil length (I) x height (H) x coil width (L)	806×660×22
	Fan Motor Speed (rpm) (H/M/L)	780/600
	Output of Fan Motor (W)	60W
Outdoor	Fan Motor RLA(A)	0.26
unit	Fan Motor Capacitor (uF)	3
	Air Flow Volume of Outdoor Unit (m³/h)	2700
	Fan Type-Piece	Axial fan -1
	Fan Diameter (mm)	460
	Defrosting Method	Auto defrost
	Climate Type	T1
	Isolation	1
	Moisture Protection	IP24
	Permissible Excessive Operating Pressure for the Discharge Side(MPa)	3.8
	Permissible Excessive Operating Pressure for the Suction Side(MPa)	1.2
	Sound Pressure Level dB (A) (H/M/L)	56/54/52
	Sound Power Level dB (A) (H/M/L)	66/64/62
	Dimension (W/H/D) (mm)	846X300X685
	Dimension of Package (L/W/H)(mm)	994X428X750
İ	Net Weight /Gross Weight (kg)	52/57
	Refrigerant Gas & Charge (kg)	R410A /1.60

SHARP

WARRANTY

Air Conditioners

Sharp Corporation of Australia Pty Ltd, guarantees that should a defect in this product due to either FAULTY MATERIALS or WORKMANSHIP in manufacturing become apparent within the period of 60 Months, from the date of original purchase of the product, such a defect will be rectified, without cost to you, for either labour or materials, when used under normal use & reasonable care in the opinion of Sharp.

Air Conditioning units carry an on-site warranty, this does not apply if the unit is located outside the metropolitan area and is more than 40km from a Sharp Approved Service Centre and does not include freight charges to and from a Sharp Approved Centre or travelling charges. (if required).

THE WARRANTY IS SUBJECT TO:

The unit installed in accordance with our "Installation Instructions"

The unit must be in a serviceable area, with the Outdoor unit no higher than 2.4m above

The warranty is applicable to the original installation only.

The unit has been installed by appropriately licensed contractors.

THE FORGOING WARRANTY DOES NOT APPLY:

If the rating plate has been removed, damaged or rendered illegible.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts of the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, exposed to abnormally corrosive conditions, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

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