

ARDEN

DC CEILING FAN

- **INSTALLATION**
- **OPERATION**
- **MAINTENANCE**
- **WARRANTY INFORMATANT**

CAUTION

**READ INSTRUCTIONS CAREFULLY FOR SAFE
INSTALLATION AND FAN OPERATION.**

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ARDEN Installation Instructions



CONGRATULATIONS ON YOUR PURCHASE

Congratulations on purchasing the latest in energy saving ceiling fans. This fan runs on DC (direct current) power which gives it the benefit of being super energy efficient whilst still maintaining high volume air-movement and silent operation.

Energy Saving - The DC motor is the latest technology in fan design. Its highly efficient motor saves up to 65% more energy than ceiling fans with traditional AC motors.

Silent operation – This DC fan motor is programmed with a stabilised current which efficiently reduces motor noise.

Low operating temperature – The DC power is managed effectively which brings down the motor operating temperature to less than 50°C. This results in a much cooler motor than a standard AC fan and increases the longevity of the motor.

6 speed remote control - Regular AC ceiling fans usually come with only 3 speeds, this DC fan comes complete with a 6 speed remote, which gives greater choice of comfort levels.

SAFETY PRECAUTIONS

1. In Europe: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Cleaning and maintenance shall not be undertaken by children without supervision.
2. In Australia: The 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 the use of the appliance by a person responsible for their safety.
3. Children should be supervised to ensure that they do not play with the appliance.
4. An all-pole disconnection switch must be incorporated into the fixed wiring, in accordance with local wiring rules.

WARNING:

**FOR SAFE USE OF THIS FAN AN ALL-POLE DISCONNECTION
MUST BE INCORPORATED INTO THE FIXED WIRING IN
ACCORDANCE WITH THE WIRING RULES.**

Please note warranty will be void if installation is without a means for an all-pole disconnection incorporated in the fixed wiring in accordance with the wiring rules.





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Example: If a fan is connected to a circuit that can be isolated via an all-pole safety switch at the switchboard, then this is considered to be an all-pole disconnection to the ceiling fan electrical circuit, meeting the requirements of **Safety regulations**

A single-pole switch also must be placed in the same room as the fan as per local wiring regulations.



5. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
6. The structure to which the fan is to be mounted must be capable of supporting a weight of 30kg.
7. The fan should be mounted so that the blades are at least 2.3m above the floor in Europe or 2.1m above the floor in Australia.
8. **This fan is suitable for indoor and outdoor areas provided the fan is fully undercover with a minimum of 2 walls. The ceiling fan must be positioned in a location protected from water, wind, dust and salt. Exposure to these elements will void the warranty. Mounting the fan in a situation where it is subject to water or moisture is dangerous.**
9. Only a licensed electrician should execute the installation.





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PARTS LIST

Unpack your fan and check the contents. You should have the following:

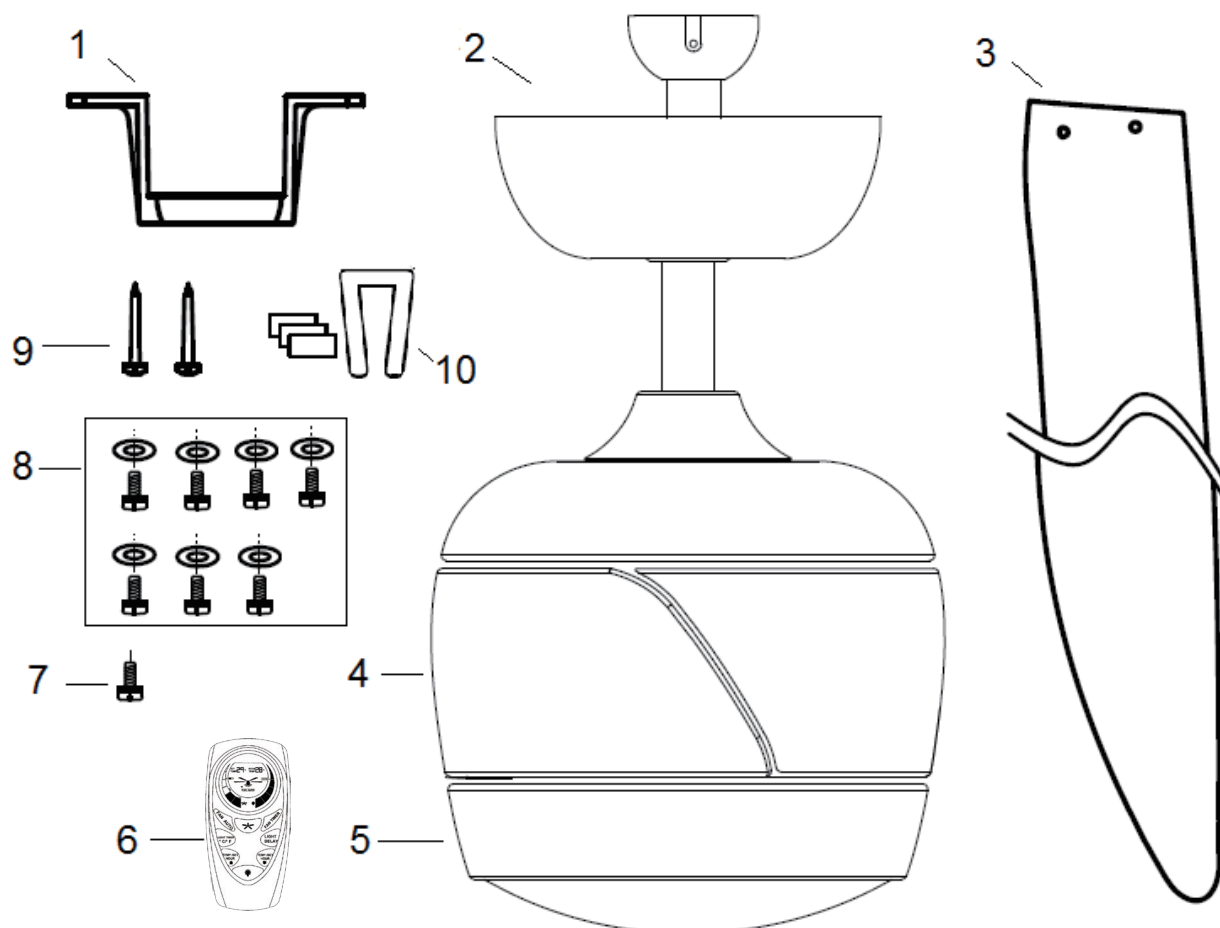


Fig. 1

- | | | | |
|---|---|----|--|
| 1 | Mounting bracket x 1 | 6 | Remote transmitter with holder x 1 set |
| 2 | Fan assembly with hanger cover, down rod, canopy cover and canopy x 1 | 7 | Motor screw x 7 |
| 3 | Blade x 3 | 8 | Blade screws with flat washer x 7 |
| 4 | Blade holder x 3 | 9 | Wooden screw x 2 |
| 5 | Bottom cover x 1 | 10 | Balancing kits x 1 set |



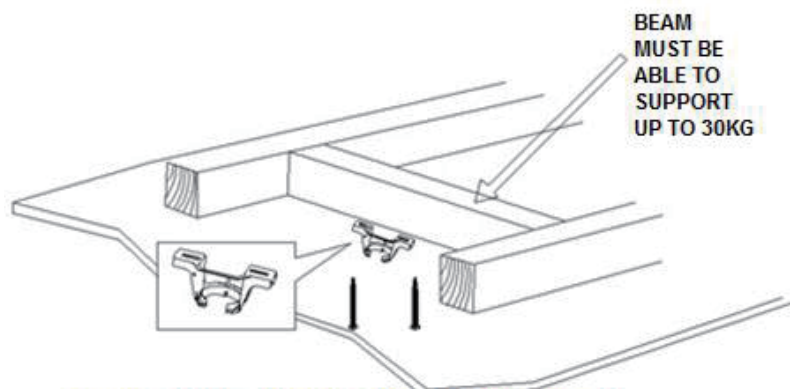


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INSTALLING THE MOUNTING BRACKET

The ceiling fan must be installed in a location so that the blades are 300mm spacing from the tip of the blade to the nearest objects or walls.

Secure the hanging bracket to the ceiling joist or structure that is capable of carrying a load of at least 30kg, with two long screws provided. Ensure at least 30mm of the screw is threaded into the support.



NOTE: THIS PICTURE IS FOR REPRESENTATION ONLY AND DOES NOT REPRESENT THE ACTUAL BRACKET

Fig. 2

NOTE: The bracket screws provided are for use with wooden structures only. For structures other than wood, the appropriate screw type MUST be used.

ANGLED CEILING INSTALLATION

This fan hanging system supports a maximum 15 degree angled ceiling installation.

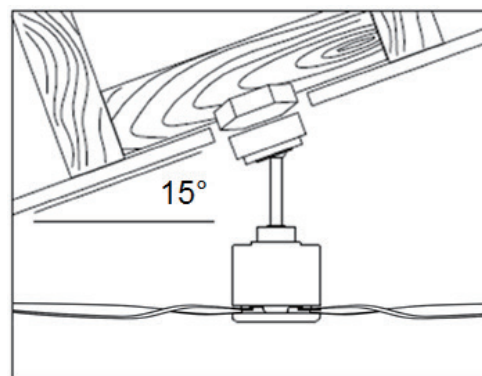


Fig. 3





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HANGING THE FAN

Lift the fan assembly onto the mounting bracket. Ensure the registration slot (A) of the hanger ball is positioned on the stopper (B) of the mounting bracket (C) to prevent the fan from rotating when in operation. (Fig.4)

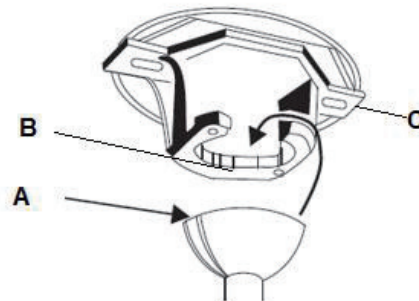


Fig. 4

ELECTRICAL WIRING DIAGRAM

WARNING: FOR YOUR SAFETY ALL ELECTRICAL CONNECTIONS MUST BE UNDERTAKEN BY A LICENSED ELECTRICIAN.

NOTE: AN ADDITIONAL ALL POLE DISCONNECTION SWITCH MUST BE INCLUDED IN THE FIXED WIRING.

NOTE: IF THERE ARE TWO OR MORE DC CEILING FANS INSTALLED IN THE ONE LOCATION, AN SINGLE-POLE SWITCH IS REQUIRED FOR EACH CEILING FAN. THIS IS REQUIRED WHEN PROGRAMMING THE REMOTE AND RECEIVER TO PAIR TOGETHER.

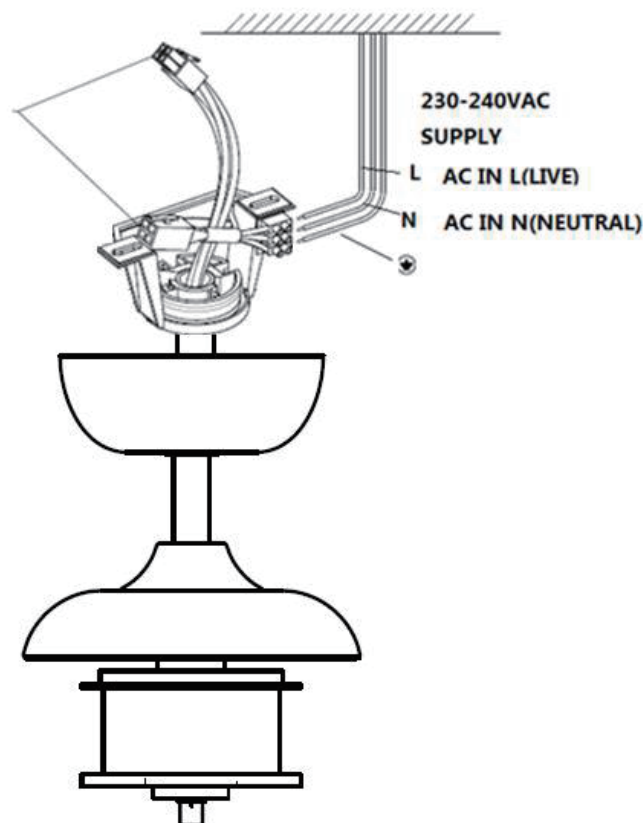


Fig. 5



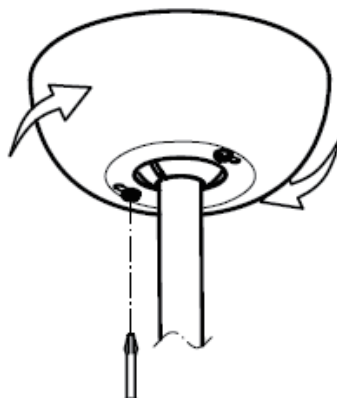
This fan is suitable for indoor and outdoor areas provided the fan is fully undercover with a minimum of 2 walls. The ceiling fan must be positioned in a location protected from water, wind, dust and salt. Exposure to these elements will void the warranty.

FINISHING THE INSTALLATION

INSTALL THE CANOPY

- ◆ Loosen the 2 screws from the bottom of the mounting bracket.
- ◆ Slide the canopy up to the mounting bracket and place the key hole on the canopy over the screw on the mounting bracket. Turn the canopy until it locks in place at the narrow section of the key holes and secure it by tightening the 2 set screws. Avoid damaging the electrical wiring prepared previously.

Fig. 6



BLADE INSTALLATION

- ◆ Loosen the 3 blade holders from motor.
- ◆ Secure the blade to the blade holder by tightening the 2 blade screws with washer. Fig.7
- ◆ Repeat to install the other blades to the blade holders.
- ◆ Install the blade assemblies to the motor by tightening the 2 motor screws. Fig.8
- ◆ Finally, install the bottom cover to the lamp bracket by rotating it clockwise. Fig.9

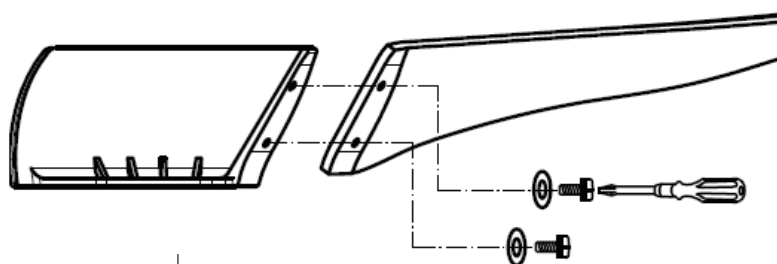


Fig. 7

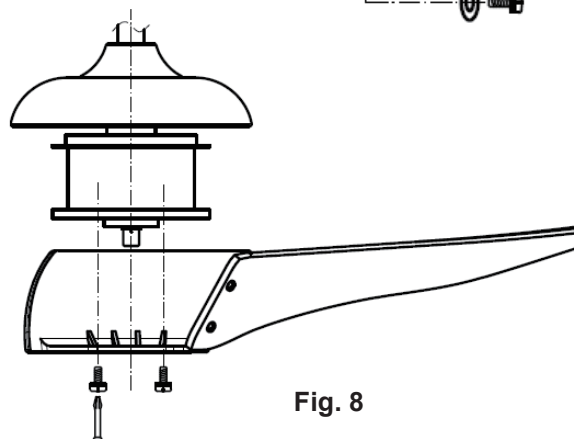


Fig. 8

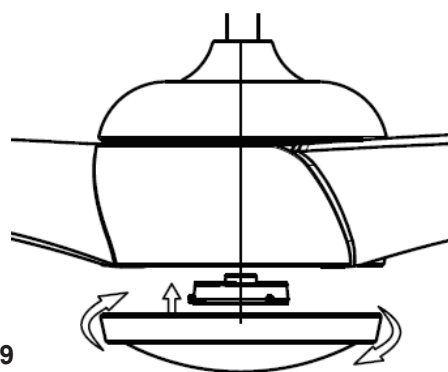


Fig. 9



REMOTE CONTROL OPERATION INSTRUCTIONS

(MODEL: CR 7987T)



Rated Voltage AC220-240V / 50Hz

PLEASE SAVE & READ INSTRUCTIONS CAREFULLY BEFORE USING THE PRODUCT.

WARNING - to reduce the risk of fire, electrical shock or injury to persons or property, please follow the guideline below for safe use and all operation instructions.

This remote controller is designed to control your ceiling fan speed, and lamp. There are 3 main functions, FAN AUTO, MANUAL, and TIMER functions, which will allow the flexibility to control the fan speed and on/off, and light functions by incorporating timer and thermal sensor to operate the fan and light automatically.

INSTALLATION REQUIREMENTS:

- Must be installed by a Licensed Electrician
- Do not exceed rated power input specification.
- Suitability for use “indoors”.
- This ceiling fan remote controller is only suitable for controlling the fan motor and the light kit associated with the ceiling fan only. Any other use would consider as misuse and warranty is void.
- Do not install fan remote controller with existing fan wall controller. Remove existing wall controller and replace with a double pole wall switch, to power the fan remote controller.
- Do not use a solid state dimmer with this ceiling fan remote controller.



This fan is suitable for indoor and outdoor areas provided the fan is fully undercover with a minimum of 2 walls. The ceiling fan must be positioned in a location protected from water, wind, dust and salt. Exposure to these elements will void the warranty.

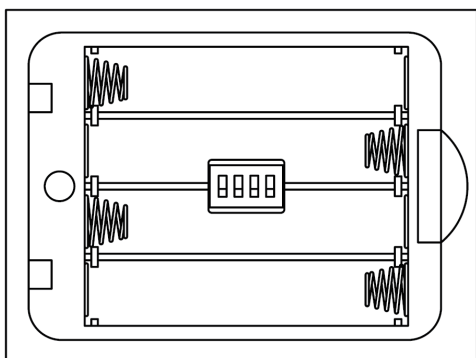


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INSTALLATION PREPARATION:

Before carrying out the installation the following must be considered.

- 4 x AAA 1.5V (size) Batteries are required to operate the remote controller (NOT PROVIDED) .
- Remove the battery cover from the back of the remote and insert 4 x AAA. Ensure the polarities are correct as shown in the battery compartment, and that the batteries are all fresh batteries.

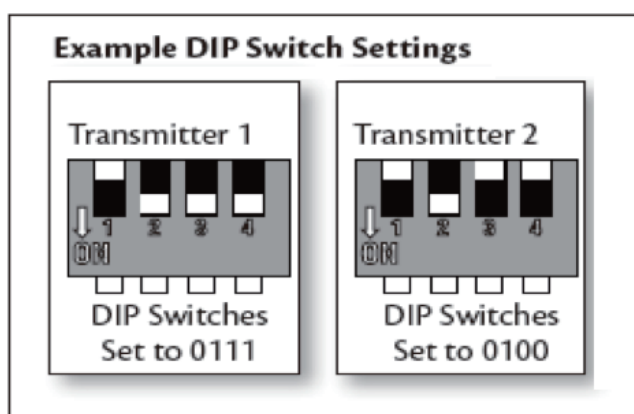


(Fig. 1)

Fig.1 Battery compartment

- The remote (transmitter) and motor driver (receiver) must be configured so that communication between each other is paired up. This is achieved by setting the DIP Switch on the receiver and remote on the same setting.

Note: The DIP switch assembly has 4 switches that can be setup to 16 different transmitting code (frequency) combinations. This is practical when there is more than 1 remote/receiver pair operating locally or in the same room.



(Fig.2) Dip Switches

HOW TO CHANGE A NEW CODE (FREQUENCY)

- After set the DIP switches up or down to a new code (shown Fig.2), install 4 batteries onto transmitter, then, restore the power supply to the fan.
- Within 30 seconds after the power is restored, press and hold the “ LIGHT DELAY/LEARN” key for 6 seconds, fan will start to process the change of new code.





ARDEN Installation Instructions

INSTALL THE CEILING FAN:

WARNING – HIGH VOLTAGE
BEFORE CONNECTING THE RECEIVER & CHANGE CODES

- For your safety: Power to the circuit must be disconnected or switched off.
- Household power can cause **SERIOUS INJURY** or **DEATH**
- Wiring must meet all local and national electrical wiring codes

FOLLOW THESE INSTRUCTIONS

- IF YOUR CEILING FAN MOTOR HANGS DOWN FROM THE CEILING ON A ROD. FOLLOW ALL SAFETY INSTRUCTIONS IN YOUR CEILING FAN INSTRUCTION MANUAL.
- REMEMBER TO REMOVE ELECTRICAL POWER BEFORE STARTING WORK.
- WIRING MUST MEET ALL ELECTRICAL WIRING SAFETY REGULATIONS.

MAKING THE ELECTRICAL CONNECTIONS

Use the wire nut terminal block provided for making connections.

- Remove/ disconnect electrical power from the working circuit.
- Remove the ceiling fan CANOPY cover from the mounting bracket.
- Disconnect existing wiring from the supply at ceiling.
- Connect the earth (GREEN/YELLOW) wire to the supply EARTH wire, and ensure continuity for the whole electrical earth wiring.
- Connect **AC IN L** of control unit to **AC L** supply wire.
- Connect **AC IN N** of control unit to **AC N** supply wire.
- Connect **TO MOTOR N** of control unit wire to the **COM (N)** fan wire.
- Connect **TO MOTOR L** of control unit wire to the **MOTOR (L)** fan wire.
- Connect **FOR LIGHT** of control unit wire to the **LIGHT** wires.
- Push the connected wires up into the junction box.
- Lay the control unit wire on top of the control unit.
- Reinstall the canopy on the mounting bracket.
- Restore electrical power to the circuit, fan will be ready for operation.

IMPORTANT

FAN INSTALLTION MUST BE COMPLETE INCLUDING ASSEMBLY OR BLADES BEFORE TESTING REMOTE CONTROLLER

NOTE: The controller wiring circuit must **NOT** be shared with any electrical equipment that is sensitive to voltage fluctuation, such as flooding with infrared sensor.





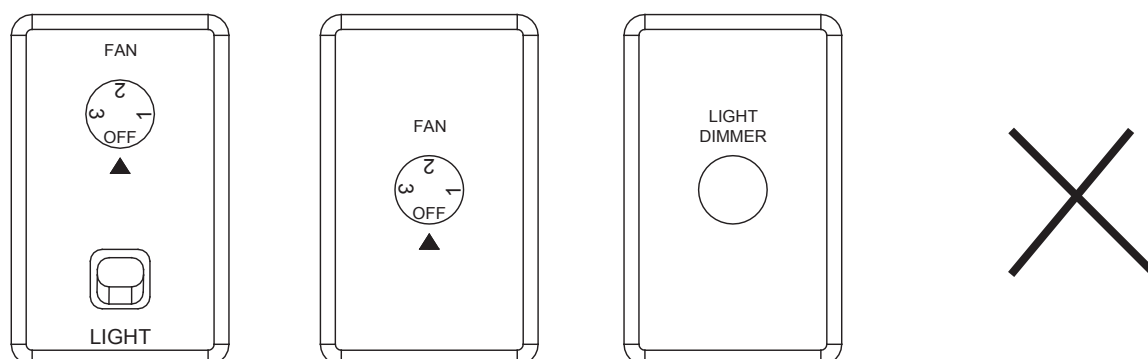
ARDEN Installation Instructions

DO NOT use the wiring of the controller, other than for the purpose supplying power into the controller, and connections to the equipment that is under control. Any outside wiring connections that is not part of the controller/controlled circuit may affect the operation of the controller, and will void warranty.

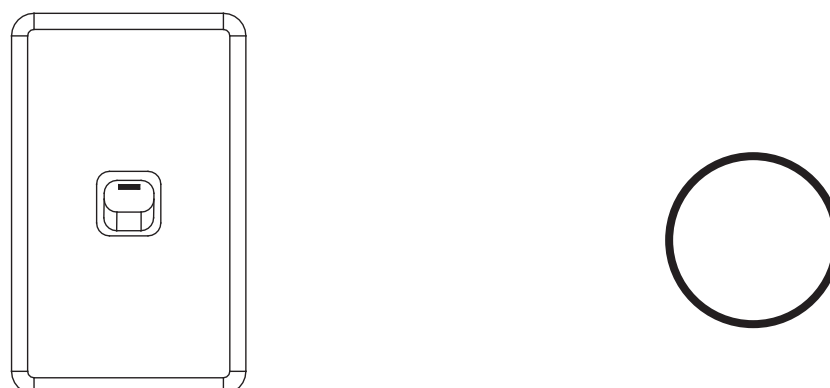
NOTE: Slope ceiling angle should not exceed the ceiling fan hanging bracket supporting degrees. Please check with retailer about pitch angle suitable for fan slope ceiling mounting with remote control.

NOTE: DO NOT use the below showing Fan Wall Controls or any other ones that have speed adjustment / light dimmer function with the Fan that has Remote Control device to avoid damage to the Remote as following:

CAUTION!



If the Remote Control device is to be installed with an existing ceiling fan with any of the above Wall Manual Fan Controls, **PLEASE REMOVE** and replace with the Double pole ON/OFF switch as shown below:



Note: A double pole wall switch must be included in the wiring installation. The double pole switch allows disconnect the remote controller from the mains AC power supply during maintenance and cleaning of the ceiling fan.



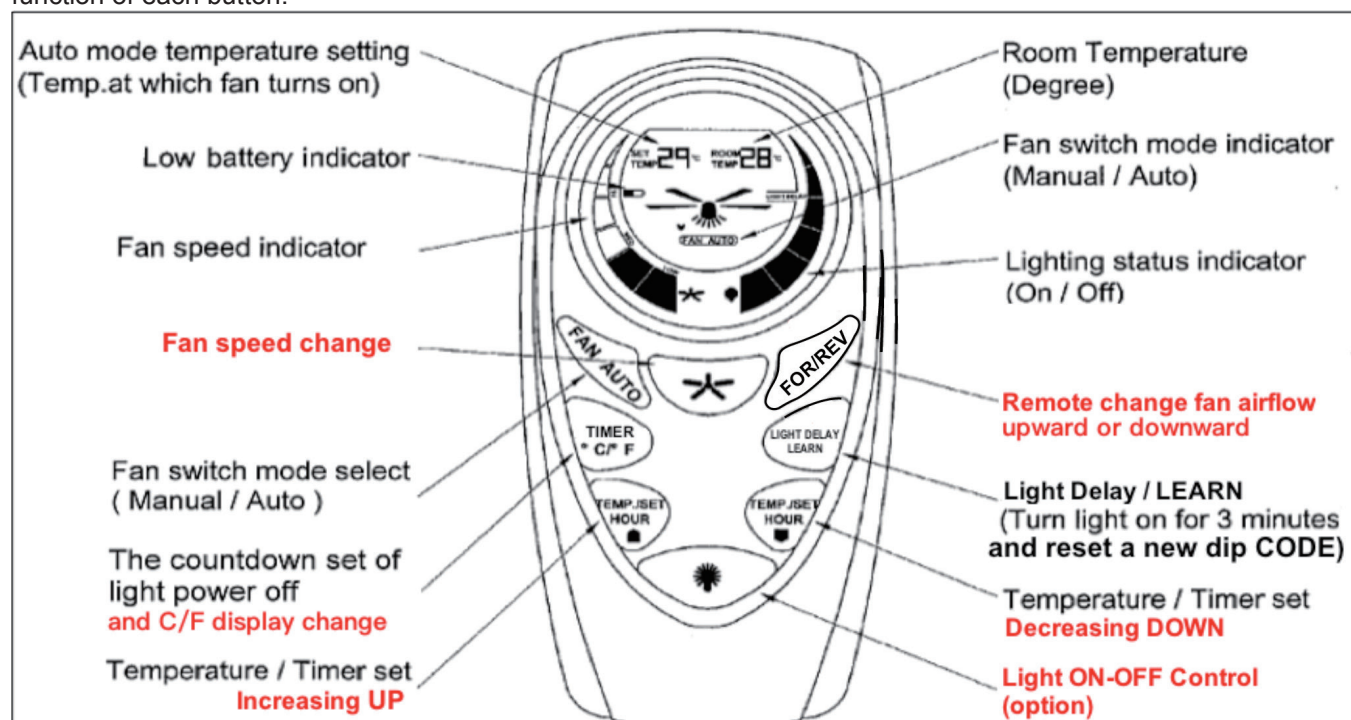


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OPERATING THE REMOTE:

ICONS ON THE REMOTE LCD PANEL

Before you start using the remote, take the time to read through this section and get familiar with the button and function of each button.



Auto mode temperature/fan timer setting indicator:

This indicator display the temperature setting of the fan in FAN AUTO mode, and the FAN TIMER value which switch off the fan at the pre-set time. The indicator will switch every 2 seconds to display set temperature and fan timer respectively.

Room temperature / Light timer indicator:

This indicator displays the Room ambient temperature, and the LIGHT TIMER value that switch off the lamp at the pre-set time. The indicator will switch every 2 seconds to display Room temperature and Light timer respectively.

Low Battery indicator:

When the battery low indicator is flashing, that means battery power level is low, please replace the batteries immediately

Fan speed indicator:

Display the fan current fan speed level (from Low to High speed)

Fan switch mode indicator:

Indicate the fan is operating in MANUAL mode or FAN AUTO mode

Lighting status indicator

Display the current light function ON or OFF





ARDEN Installation Instructions

BUTTONS ON THE REMOTE

FAN AUTO: Press the button to set FAN AUTO mode or MANUAL mode.

FAN SPEED CHANGE: Press the button to set fan operating speed, from low to high.

FAN TIMER: Press the button to start programming the timer to switch the fan off automatically, or to cancel the timer setting.

LIGHT TIMER and TEMPERATURE Unit indicator (°C / °F) :

Press the button once to start programming the timer to switch off the light automatically, or to cancel the timer setting.

Press and hold the button for 10 seconds to change the temperature display from degree Celsius to degree Fahrenheit.

LIGHT DELAY: Press the button to activate the light delay function, which will turn off the fan 3 minutes later.

Temperature / Timer  : Set the temperature and time up

Temperature / Timer  : Set the temperature and time down

LIGHT switch: Press the button to turn ON/ OFF the light (.

FAN AUTO Function

FAN AUTO function allows the fan to operate more efficiently with the use of the in-built thermal sensor.

Press the **FAN AUTO** button to activate FAN AUTO function, and then press the **UP/ DOWN** buttons to set the temperature at what you preferred. The fan will run at the HIGH, MEDIUM, LOW or OFF speed automatically via comparing to room temperature as following:

Room temperature is lower than setting temperature: → OFF

Room temperature is equal to the setting temperature by 0 °C: → LOW

Room temperature is higher than setting temperature by 2 °C: → MED

Room temperature is higher than setting temperature by 4 °C: → HI

Press the **FAN AUTO** button again to turn off the FAN AUTO function.

FAN TIMER Function

Press the **FAN TIMER** button to activate the timer function, and then press the **UP / DOWN** buttons to set the time at what you preferred. The fan and light will turn OFF at the set time. Fan timer can be cancel anytime by setting the timer to 0 (zero hours).

LIGHT TIMER Function

Press the **LIGHT TIMER** buttons to activate the timer function, and then press the **UP / DOWN** buttons to set the time at what you preferred. The light will turn OFF at the set time. Light timer can be cancel anytime by setting the timer to 0 (zero hours).

NOTE: When using the FAN AUTO Function and TIMER function, ensure the remote is in the same room or within the transmission/receiving range.





ARDEN Installation Instructions

TROUBLE SHOOTING:

Warning: For your safety, ensure the power is switched OFF before starting the troubleshooting procedures.

TROUBLE	PROBABLE CAUSES	SUGGESTED REMEDY
1. No functions operate Warning: Some task can only to be performed by a qualified technician.	Main power not restored	Replace fuse. Turn ON circuit breaker. Turn ON wall switch.
	Wall controller is not removed and interferes with remote operation.	Remove the fan wall controller, and replace with ON/OFF switch for remote.
	Wall switch power to the fan remote is OFF.	Switch wall switch ON, to power the remote.
	Receiver wiring incorrect.	Verify wiring connections according to label and wiring diagram.
	Transmitter and receiver DIP switches do not match	Set transmitter and receiver to same DIP switch setting.
	The remote is too far from the receiver	Move closer to receiver
2. Remote LED/LCD no display	Battery too weak	Replace with all new batteries. Do not mix up the old and new battery.
	Battery at wrong polarity	Reinstall the battery at right polarity
	The contacts in battery compartment are corroded or bent.	Clean corroded contacts. Bend contacts back to their correct position.
	Poor contact with batteries.	Roll the batteries to well sit in the compartment. Or replace with other brand batteries.
3. Operates only at close range	Signal blocked from reaching receiver	Extend antenna out from canopy, or move it for better reception
	Battery too weak	Replace with all new batteries. Do not mix up the old and new battery.
4. More than one fan remote operating interference in same area.	RF interference	Change DIP switch settings to a different code. Each pair of transmitter and receiver must have unique DIP switch code.
5. LCD remote reset to default value	Batteries lost contact by accidental dropping of the remote, or battery is weak.	Reset the setting as you preferred manually, after re-fitting batteries or change of new batteries.

TECHNICAL INFORMATION:

Transmitter (Remote):

Model No.: UC7087T
 Rated Voltage: 6VDC (Use 1.5V 4xAAA batteries)
 Frequency: 433.92MHz

Receiver (controller):

Model No.: UC7076R
 220-240VAC 50Hz, 70mA
 Max. Motor 0.5A
 Ceiling Fan Only
 Max. Incandescent/Halogen load 300W
 Max. Fluorescent lamp & ballast load 300W
 NON-DIMMING FUNCTION



This fan is suitable for indoor and outdoor areas provided the fan is fully undercover with a minimum of 2 walls. The ceiling fan must be positioned in a location protected from water, wind, dust and salt. Exposure to these elements will void the warranty.



ARDEN Installation Instructions

BALANCING / WOBBLING

Please note that all ceiling fans are not the same, even in the same model—some may move more or less than others. Movement of a couple of centimetres is quite acceptable and does not suggest the fan will fall down.

Even though all blades are weighted and grouped by weight, it is impossible to eliminate wobble altogether. This should not be considered a fault. Ceiling fans tend to move during operation due to the fact that they are not generally rigidly mounted

You may do the following action to reduce the wobbling

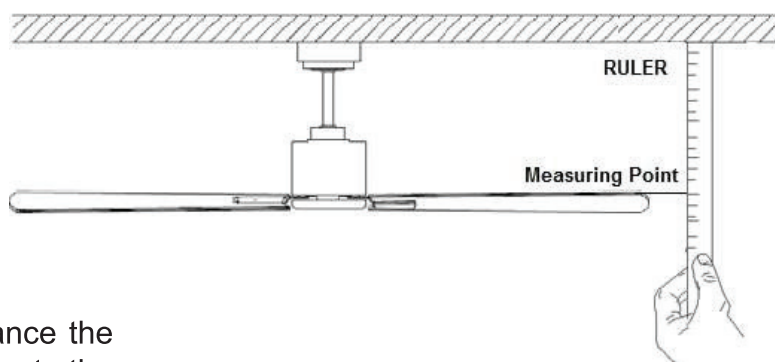
1. Check all the blade mounting screws are tightened and securely.
2. Wobbling problems may result from inconsistent blade level. To check blade level, measure the distance from each blade tip to the ceiling.

Note: If measurements are inconsistent:

check blade mount screws are not over tightened or loose, which can cause the blade tip to not all sit level;

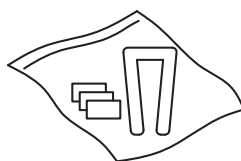
An out of shape blade can cause wobbling, check by removing the blade and lay in on a flat surface. Compare the set of blades to check all are the same shape and size.

3. Blade tracking may be checked simply by use of a household ruler as shown in below Figure. Place the ruler vertically against the ceiling and even with the outside leading edge of a blade. Note the distance of the edge of a blade same as others. Turn the blade slowly by hand to check the remaining blades. If a blade is not in alignment, the blade is either out of shape / warped or the blade screws are not evenly tightened or are loose.



BALANCING KIT

1. A Balancing Kit is provided to balance the ceiling fan on initial installation. Please refer to the instruction on how to use the Balancing Kit, that is included
2. The balancing kit can be used to assist re-balancing if the ceiling fan becomes un-balanced overtime. Do not discard the balancing kit. Retain for possible future use.



GENERAL OPERATION & TROUBLE SHOOTING

The following information has been prepared to assist the installing electrician, and the consumer, to obtain the best performance from their VAM Ceiling Fan.

Operating the Fan - For the first time

Ensure that all screws are tightened, and electrical connections safe. Make sure that the fan can spin freely, and that the blades are not going to come into contact with anything. Make sure that the power is now on, and that there is power coming to the fan. Once this is done, start the fan in high speed and run the fan at high speed for up to 8 hours to settle the fan in.

Ceiling fan motors, like all electric motors, may feel hot to touch when they are operating. This is normal and not a fault. All electric motors have some audible noises, these running noises are not a fault, and not covered under the warranty.

Trouble Shooting

Difficulty starting, or won't start - Check all electrical connections (including the wall controller); check the Summer/Winter selection, and ensure that the fan is spinning in the correct direction; try starting in the highest speed.

Poor air movement - Your fan may be running in reverse (Winter mode), check the Summer/Winter selection is correct. If your fan has been shortened there may not be enough distance from the blades to the ceiling. Your fan may not be appropriate for the room it is being used in. Fan wall controllers are matched to the specific fan model to achieve best performance - This fan can only be operated using the remote supplied. Using a wall control or a substituted remote control will not work and will void the warranty.

Fan is noisy - If it is a "mechanical" noise - Check that the blades are tight; that any glass / light fitted is secure; that all wiring is clear of any moving parts.

Some "electrical" noises can occur in the evening or early morning. These small noises are often caused by the electrical pulses sent down power lines to activate off-peak hot water systems. They are not a fault in the fan. **These noises are often unavoidable and are not covered under warranty.**

Fan wobbles or vibrates - As ceiling fans spin they do tend to vibrate, particularly at high speed. They are designed with flexible "ball" joints to allow for some movement. If your fan wobbles or vibrates excessively it may be due to loose blades or unbalanced blades. Always ensure that all blades are firmly fixed to the fan, with all screws and bolts tightened. Never mix blades between fans. If required, each fan is supplied with a Blade Balancing Kit - with simple to follow instructions. Fans with extended down rods may tend to wobble more than when used with their standard down rod. It is important to "balance" a wobbling fan as soon as possible to avoid longer term damage. For further information on FAN WOBBLE see the section of this manual covering fan wobble and fan balancing. **Fan balancing is not covered under warranty.**

Remote Control not working - If the remote is not functioning check that the battery in the transmitter is fresh, and not flat; have your electrician confirm that power is coming to the fan and that all connections have been made. Check that the remote has been properly "paired" with the fan (refer detailed instructions in this booklet).

Maintenance

To keep your Ceiling Fan looking good, and working properly, regular dusting and cleaning (with non-abrasive cleaners) is essential. A build-up of dust and dirt looks ugly and it will reduce the performance of your fan. Over time your fan may need re-balancing.

Only VAM FANS accessories, Fan Remote Kits and Extension Down Rods should be used with VAM FANS.



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