CARRO

INSTALLATION INSTRUCTIONS

MANUFACTURING QUALITY
CEILING FANS SINCE FOREVER.

Important: Please read and save these instructions before installation

Basic Product Specifications

Model	CFR485J1N	Voltage	120V
Fan Blade Span	48"	Rated Wattage	26W
Gross Weight	16.9lbs.	Motor RPM	65-215rpm
Maximum Airflow	3700CFM	Maximum Noise	58dB(A)

Model	CFR525J1N	Voltage	120V
Fan Blade Span	52"	Rated Wattage	26W
Gross Weight	17lbs.	Motor RPM	65-205rpm
Maximum Airflow	4630CFM	Maximum Noise	58dB(A)

Model	CFR565J1N	Voltage	120V
Fan Blade Span	56"	Rated Wattage	26W
Gross Weight	17lbs.	Motor RPM	55-175rpm
Maximum Airflow	4300CFM	Maximum Noise	58dB(A)

Model	CFR605J1N	Voltage	120V
Fan Blade Span	60"	Rated Wattage	26W
Gross Weight	17.1lbs.	Motor RPM	60-155rpm
Maximum Airflow	4900CFM	Maximum Noise	58dB(A)

U.S. Patent Nos.: 10,511,206 and 11,296,561 and 11,268,568. Other Patent(s) Pending.

Questions

Have questions about our products? Contact us and talk to our helpful tech support team.

Technical Support

Business Hours:
Monday – Friday (Holidays observed).
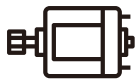**9:00 am to 5:30 pm PST.**
Tel: (888) 253-2374

This Carro Ceiling Fan is :

10 Speed Options

Forward Reverse
Fan Direction

DC Motor, stable & silent,
suitable for indoor use

Built with premium materials
for durability & power

Remote Control

- Before you begin installing the fan, shut power off at the circuit breaker of the fuse box.

- Make sure that all electrical connections are in accordance with National Electrical Code, ANSI/NFPA 70 and local codes. Hire a licensed electrician if you are unfamiliar with installing electrical wiring.

- Make sure the installation site you choose allows the fan blades to rotate without any obstructions. Allow a minimum clearance of 2.1m (7 feet) from the floor and 18 inches from the tip of the blades to the wall.

- The outlet box and support structure must be securely mounted and capable of reliably supporting a minimum of 35 pounds. Use only U.L. listed outlet boxes marked "Acceptable for Fan Support of 15.9 kg (35 lbs) or less".

- Before and after you install the fan, make sure that all mounting components are secured to prevent the fan from falling.

- Do not insert anything into the fan blades while the fan is operating.

- To change the direction of the rotation of the blades, the fan must be in operation mode.

- All set screws must be checked and retightened where necessary before installation.

- After making the wire connections, the wires should be spread apart with the grounded conductor and the equipment-grounding conductor on one side of the outlet box and the ungrounded conductor on the other side of the outlet box.

- The splices after being made should be turned upward and pushed carefully up into the outlet box. Conductor wiring identified as grounded is to be connected to a grounded conductor of power supply. Conductor wiring identified as ungrounded conductor is to be connected to an ungrounded conductor. Conductor wiring identified for equipment grounding is to be connected to an equipment- grounding conductor.

- This device complies with part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
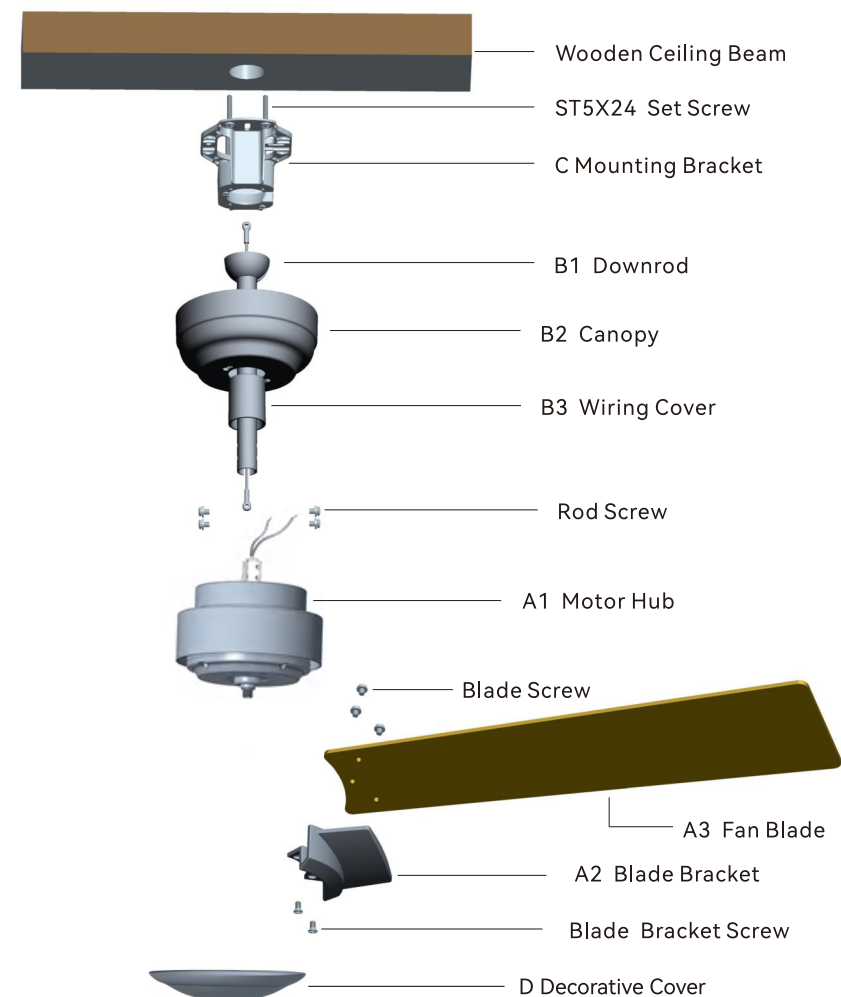
- **CAUTION:** Read all instructions and safety information before installing your new fan. Review accompanying assembly diagrams.

- **WARNING:** To reduce the risk of fire, electric shock, or personal injury, mount to outlet box marked "Acceptable for Fan Support of 15.9 kg (35 lbs) or less" and use mounting screws provided with the outlet box.

- **CAUTION:** To reduce the risk of injury, use only the screws provided with the outlet box in conjunction with the lock washers.

- **WARNING:** To reduce the risk of personal injury, do not bend the blade bracket when installing the brackets, balancing the blades, or cleaning the fan. Do not insert foreign objects in between rotating fan blades.

- **CAUTION:** To reduce the risk of electric shock, disconnect the electrical supply circuit to the fan.

- **WARNING:** To reduce the risk of fire or electric shock, this fan must be installed with a general use, non-dimmable, single gang, isolating wall control/switch.

- **WARNING:** To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.

  NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and care are factors which cannot be built into this product. These factors must be supplied by the person (s) installing, caring for and operating the unit.

- **CAUTION:** The fan is designed for this specific application and can overheat if serviced by untrained personnel. If any servicing is required, the product should be returned to an authorized service facility for examination or repair.

- **WARNING:** Do not use corrosive detergents for cleaning.

Wooden Ceiling Beam

ST5X24 Set Screw

C Mounting Bracket

B1 Downrod

B2 Canopy

B3 Wiring Cover

Rod Screw

A1 Motor Hub

Blade Screw

A3 Fan Blade

A2 Blade Bracket

Blade Bracket Screw

D Decorative Cover

Table of Contents

Tools & Materials Required

External hexagonal wrench

Phillips screwdriver

Step ladder
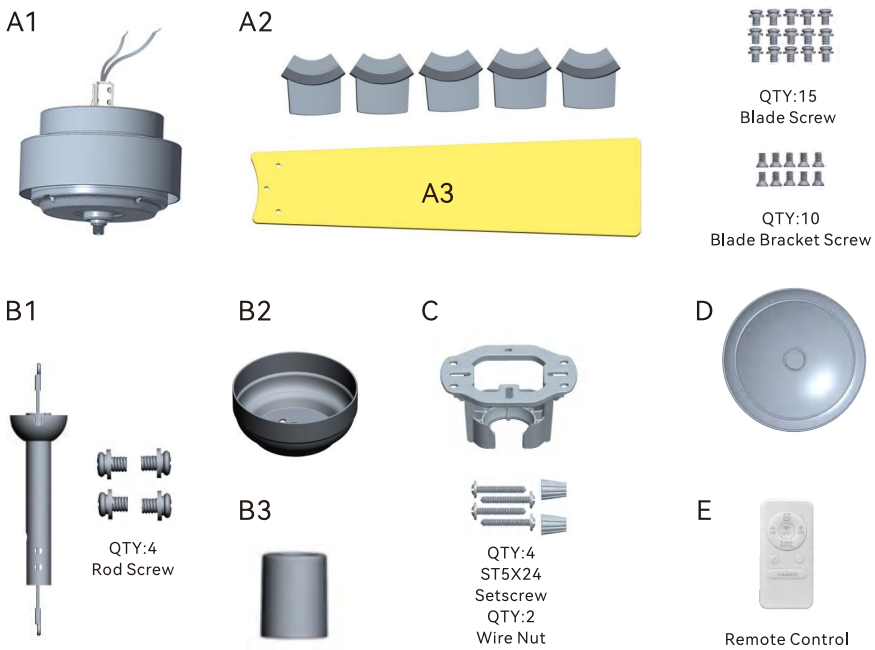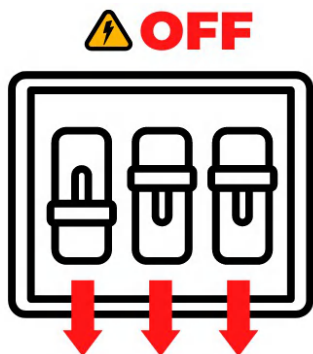
Package Contents

Before installing, please check to make sure you have received all the necessary components for installation.

A1

A2

A3

QTY:15
Blade Screw

QTY:10
Blade Bracket Screw

B1

B2

C

D

QTY:4
Rod Screw

B3

QTY:4
ST5X24
Setscrew
QTY:2
Wire Nut

E

Remote Control

⚡ OFF

WARNING: To avoid serious injury or death, turn off the power at the circuit breaker before installing the fan.

1. Install the Fan Blades

1.1 Locate the 15 blade attachment screws in the hardware pack. Use the blade screws to secure each blade to the blade bracket as shown in Fig 1.1.

1.2 Fig 1.2 shows the schematic diagram of the installed fan blade bracket. Repeat these steps for the remaining blades and ensure all screws are tightened securely.
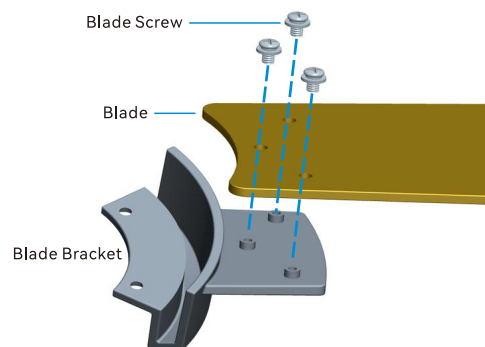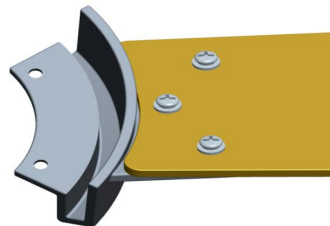
Blade Screw

Blade

Blade Bracket

Fig 1.1　　　　**Fig 1.2**

2. Install the Blade Brackets

2.1 Attach the prepared blade bracket to the motor housing using the blade bracket screws, as shown in Fig 2.1.

2.2 Repeat the process for the remaining four blade brackets until all five are installed securely.
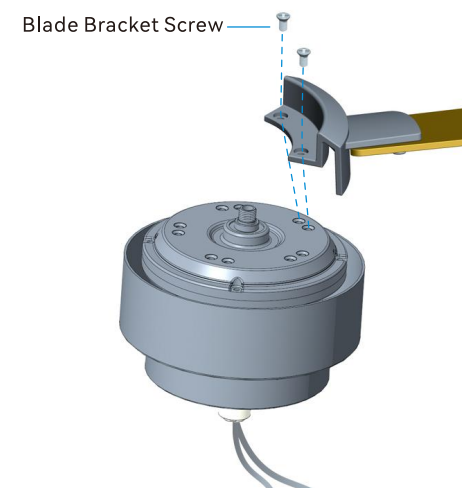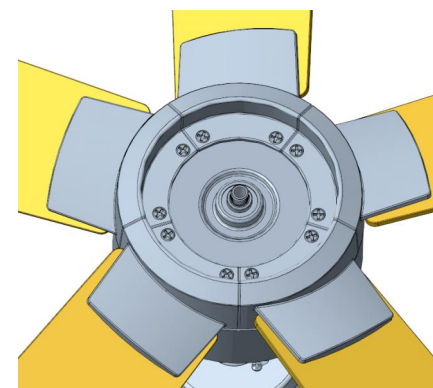
Blade Bracket Screw

Fig 2.1

Fig 2.2

3. Attach the Downrod

3.1 Assemble downrod as pictured in Fig 3.1. Insert the downrod through the canopy and wiring cover.

Note: If you choose to install a safety cable onto your ceiling fan, you will also need to run it through the downrod.
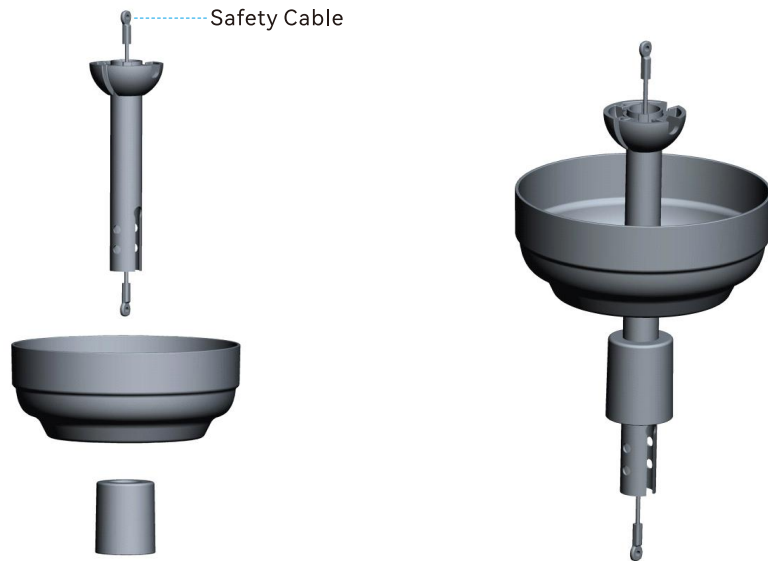
Safety Cable

Fig 3.1

3.2 Feed the motor pin wire from the fan through the downrod. Remove the screw, then install the safety cable. Screw the removed screw back through the hole and install the four downrod screws (included in the package), securely tightening them down to ensure a proper connection. Slide the wiring cover down until it rests on top of the motor assembly.

Note: Before sliding the downrod into the head of the motor assembly, take out the end of the safety cable from the downrod.
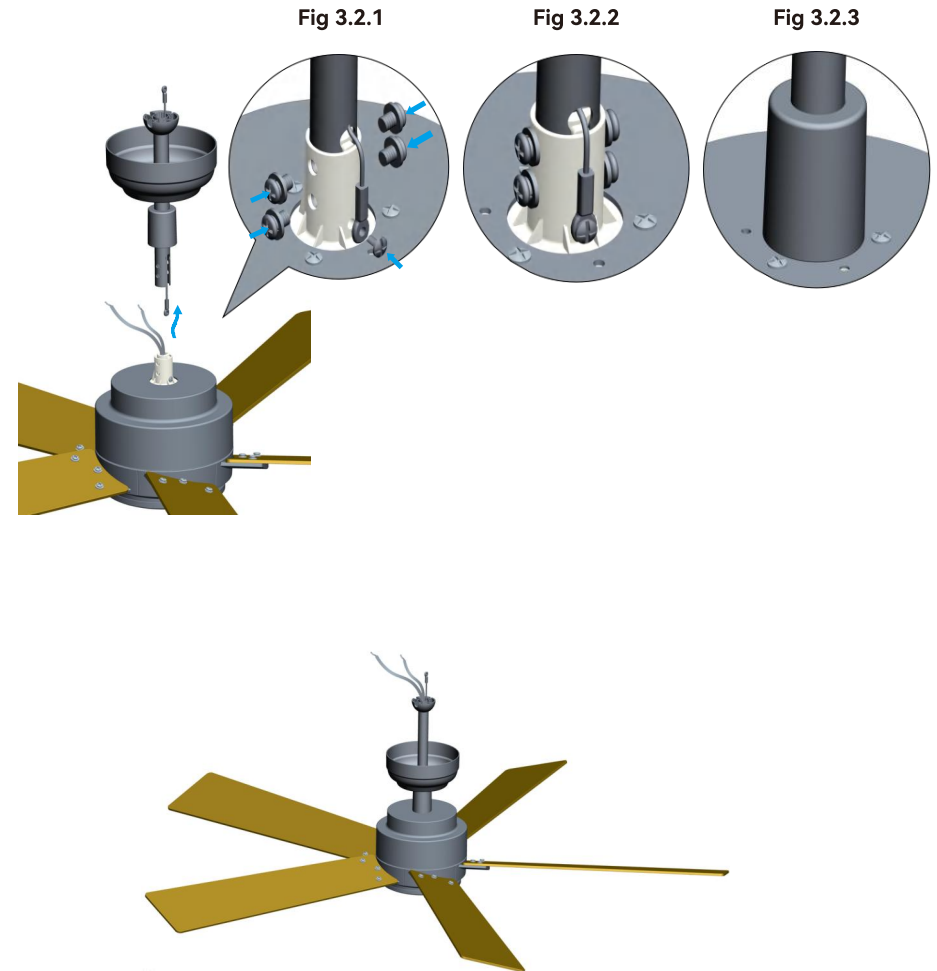
Fig 3.2.1   **Fig 3.2.2**   **Fig 3.2.3**

Fig 3.2.4

4. Install the Mounting Bracket

Install the mounting bracket to the ceiling box, as shown in Fig 4.1 below. Rotate the mounting bracket in different directions so that the bracket mounting holes match the screw holes of the ceiling box.

Note: This mounting bracket is a standard cable box. If the mounting bracket is installed at the outlet box, it should be installed on the outlet box with two screws matching the outlet box itself as shown in Fig 4.1.

WARNING: DO NOT use a plastic outlet box. Use only U.L. listed outlet boxes marked "Acceptable for Fan Support of 15.9 kg (35 lbs) or less".

This bracket can also be mounted to a wooden ceiling beam. In that case, use the four ST5x24 screws to lock the corresponding holes on the left and right sides of the bracket.
Note: The wooden ceiling beam must meet the tensile test of 30KG for installation, as shown in Fig 4.2.
It is also possible to install the mounting bracket directly to a concrete ceiling and use four screws (not included) to lock the ceiling to the left and right corresponding holes of the bracket.
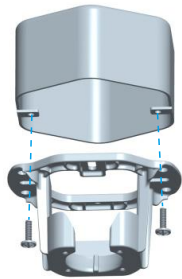
Fig 4.1   **Fig 4.2**

If you have an angled or vaulted ceiling (Fig 4.3)
1. When installing the mounting bracket, the bracket groove should be facing upward.
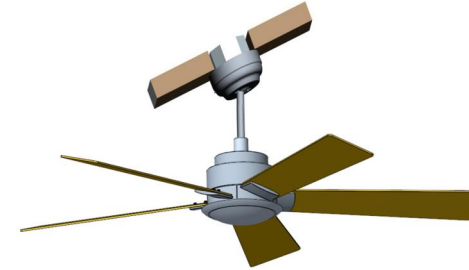2. You will need a longer downrod.
3. The maximum angle is 27 degree.

Fig 4.3

5. Hang Ceiling Fan & Wire the Fan

WARNING: To reduce the risk of fire, electric shock or other personal injury, mount the fan only to an outlet box or supporting system marked acceptable for fan support and use the mounting screws provided with the outlet box.

WARNING: Check to see that all connections are tight, including ground, and there are no visible bare wires at the wire nuts (except for the ground wire).

WARNING: To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.

WARNING: To avoid any electrical shock, be sure electricity is turned off at the main fuse box before wiring.

Install the ball end of the downrod into the opening of mounting bracket. Rotate the downrod until the tab in the mounting bracket is seated in the slot in the downrod ball as shown in the enlarged image of Fig 5.1.

WARNING: The fan and/or downrod should not rotate in the mounting bracket, if installed correctly. Failure to align the slot in the downrod ball with the tab on the mounting bracket may result in fan falling, causing serious injury or death.
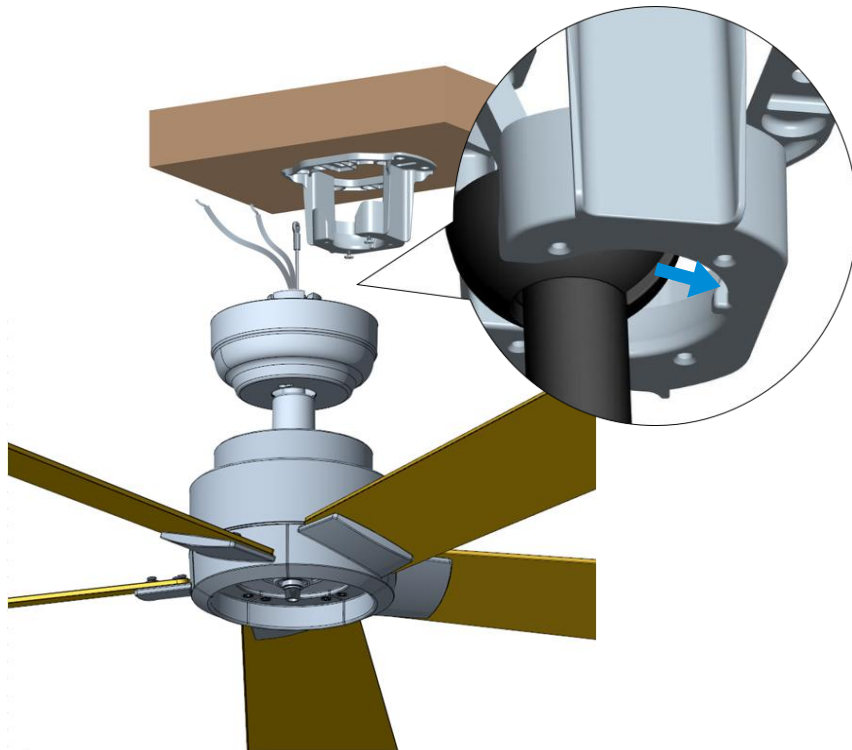

Fig 5.1

6. Connect the Wiring

6.1 Use a wire nut to connect the Green/Yellow wire from the bracket to the supply Ground wire.

6.2 Use a wire nut to connect the White wire from the motor to the supply White (Neutral) wire.

6.3 Use a wire nut to connect the Black wire from the motor to the supply Black/Red (Hot/Live) wire.

Ensure that all the wires are connected to the correct colors as shown in Fig 6.1. Tuck all wires inside the ceiling and secure them.

Attach one end of the safety cable to a secure location.
Note: Installing the ceiling fan with a safety cable is an extra safety feature. It secures the fan to the ceiling hook or safe place and avoids the fan from falling even in the case of materialfailure.
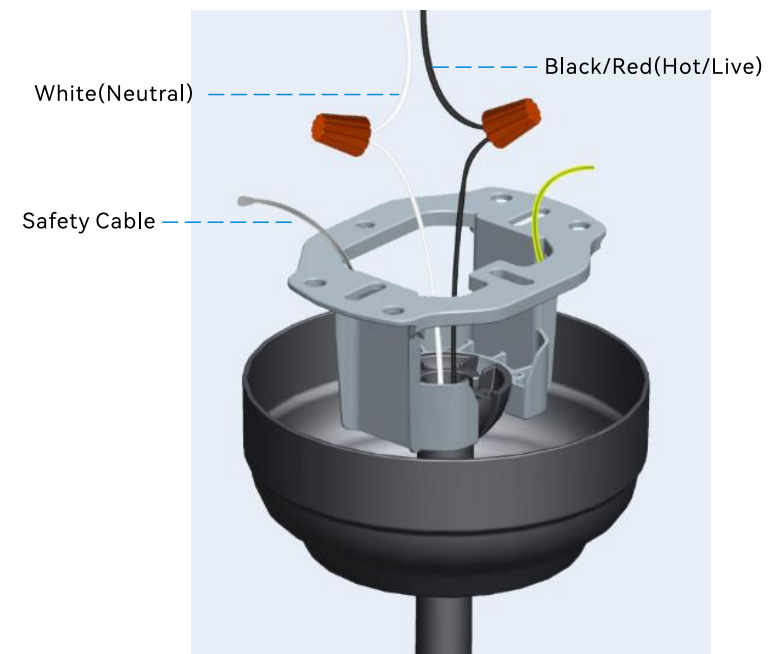

Black/Red(Hot/Live)

White(Neutral)
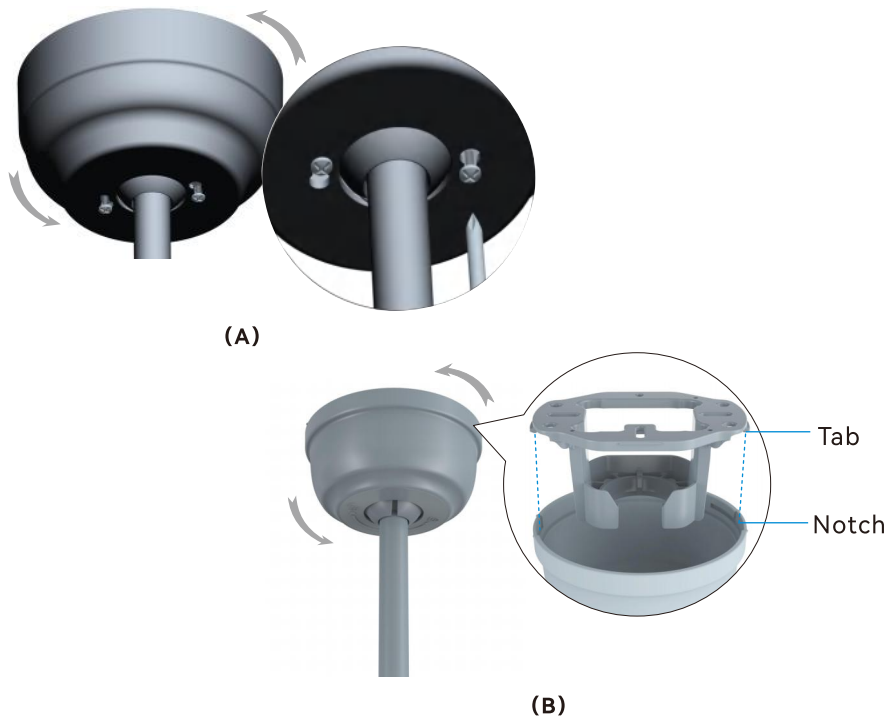
Safety Cable

Fig 6.1

7. Install the Canopy

There are two kinds of canopies and two ways to install. You may receive one of them. Please follow below instructions before installation.

A:The screws of mounting bracket are exposed.
Make sure all wires are tucked in the canopy. Raise the canopy to the mounting bracket, align the hole slots in the canopy with the two mounting bracket screws, then turn the canopy in the direction of the arrow in Fig A until the mounting brackets screws engage from the bigger slots of the canopy to the smaller ones. Then secure the canopy to the mounting bracket with the screws.

B:There is no screw on the mounting bracket.
Make sure all wires are tucked in the canopy. Raise the canopy to the mounting bracket, align the two notches inside the canopy with the two tabs on the mounting bracket. Attach the canopy by lifting and turning clockwise until it stops.

(A)

Tab

Notch

(B)

8. Install the Decorative Cover

8.1 Align the slot of the decorative cover with the slot on the motor, and turn it clockwise to securely lock it into place, as shown in Fig 8.1.
8.2 Fig 8.2 shows the decorative cover installed properly.

WARNING: To prevent SERIOUS INJURY or DEATH, make sure that the decorative cover is securely attached.
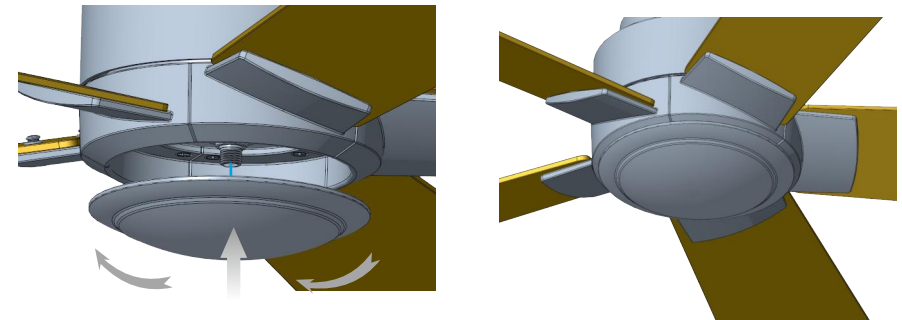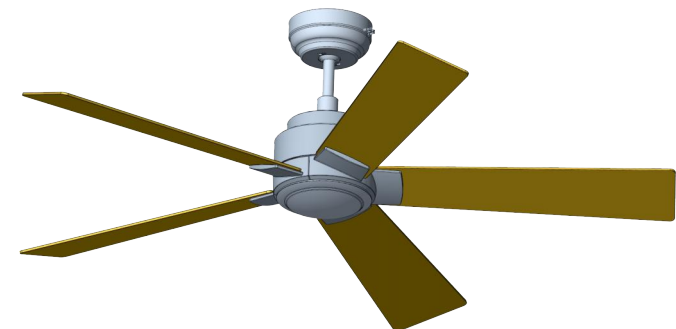
Fig 8.1   **Fig 8.2**

At this time, the ceiling fan has been installed. Turn on the power supply from the breaker circuit of the main switch or the room where the ceiling fan is installed.

Remote Control Instructions

Pair the Remote Control to Your Fan

Power on the fan and pair the remote to the fan within 1 min. To pair remote to fan, press and hold ⊘ button for 3-5 secs to pair remote to the fan. Then test it.

Remote Control Button Definitions

OFF Turns the fan off.

F/R Switches between summer mode and winter mode.
· Summer mode - (Counter-clockwise)
A downward airflow creates a cooling effect.
· Winter mode - (Clockwise)
An upward airflow moves warm air away from the ceiling area and redistributes it around the living space.

ON Turns the fan on and decreases fan speed.

ON Turns the fan on and increases fan speed.

Breeze Nature Switches the fan speed between nature mode and normal mode. Simulates a natural breeze, gentle enough not to disturb while you sleep.

⊘ RF pairing
Note: Power on the fan and pair the remote to the fan within 1 min. To pair remote to fan, press and hold ⊘ button for 3-5 secs to pair remote to the fan. Then test it.

WARNING: Do not expose the remote control to direct contact with water.

Troubleshooting

Try these troubleshooting steps before contacting Customer Service. For additional operation, maintenance, and troubleshooting information, please contact our customer service center.

SYMPTOM	POSSIBLE SOLUTION
Fan not spinning	① Make sure the fan is getting power. ② Check your circuit breaker or fuse panel and wall switch for functionality. ③ Check to make sure the fan wires are correctly connected to the house wires. ④ Remote control must be paired with the fan within 1 minute after connecting the fan to the electricity. ⑤ If you have paired the remote but the fan still does not work or couldn't pair the remote to the fan, try to reset the fan: to reset the fan, cut the power for 10 minutes, then turn the power on and press the pairing button ⊘ on the remote for 3-5 seconds. Then test it. ⑥ Use a multi-meter and test the wiring harness to see if there is any electrical output. ⑦ All the pin wiring on the circuit board must be inserted tight and in the correct position. ⑧ Remote needs to be paired with the fan first. ⑨ Make sure the fan blades spin freely. ⑩ If you're using a wall control, check the power to the breaker from your control and try working your ceiling fan manually. (Normal switch only for the fan power on/off)
Fan not working	Make sure the whole fan is powered.
The fan is noisy and wobbling	① Check if the blade screws are NOT rubbing against any part of the motor housing. ② Check the pin wires are NOT connected against any moving parts. ③ Check the down fan cup is NOT hitting the motor. ④ Confirm the canopy is NOT touching the ceiling while the fan is in operation. ⑤ Check the down rod is NOT slanted. ⑥ Tighten any loose screws on the fan blades, motor coupling, down rod, brackets and mounting hardware. ⑦ Confirm the hanger ball is firmly seated in the mounting bracket. ⑧ The ceiling beam must meet the minimum tensile test strength of 30KG for installation. ⑨ Make sure the blades and brackets are NOT bent or deformed. ⑩ Verify the wire connections are not rattling against each other. ⑪ Verify the fan blades are not cracked. If the fan blades are cracked, replace the damaged blades with a new blade set from the same brand as your ceiling fan to ensure compatibility.
Unable to pair remote	① Check if the wires are connected in the correct position or not. ② Check the batteries in the remote. ③ Disconnect the power for 10 minutes, reconnect the power and pair the remote with the fan immediately, within 1 minute.
Fan turning on or off by themselves	① Confirm the circuit breaker is not malfunctioning. ② Verify the wire connections are not frayed. ③ Cut the fan power for 10 minutes then power on again. ④ All the pin wiring on the circuit board must be inserted tight and in the correct position.

Care & Cleaning

1 Check the support connections, brackets, and blade attachments twice a year. Make sure they are secure. Because of the fan's natural movement, some connections may become loose over time. It is not necessary to remove the fan from the ceiling.

2. Clean your fan periodically. Use only a soft brush or lint-free cloth to avoid scratching the finish. The plating is sealed with a lacquer to minimize discoloration or tarnishing.

3. (Optional) Apply a light coat of furniture polish to the wood blades.

4. (Optional) Cover small scratches with a light application of shoe polish.

DO NOT:

1. Use water when cleaning. Water could damage the motor, or the wood, or possibly cause an electrical shock.

2. Apply oil to your fan or motor. The motor has permanently lubricated sealed ball bearings.

WARNING: Power off the fan before performing maintenance or cleaning the fan.

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.