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User's manual	Manual del usuario	Manuel de l'utilisateur
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Outdoor Industrial Ceiling Fan, 60 inch

Model: 604221



UL US LISTED

READ AND SAVE THESE INSTRUCTIONS

Outdoor Ceiling Fan, 60 inch

Read Instructions carefully before assembling or installing your fan. It is important that you observe all safety information to help prevent personal injury and/or property damage.

1. Installation work and electrical wiring should be done by qualified persons only in accordance with all applicable codes and standards.
2. Unplug or disconnect the fan before servicing.
3. Use this fan only in the manner intended by the manufacturer. This fan is intended for permanent installation and to be used for air circulation only.
4. The secondary support cable included with the fan must be properly connected.
5. The fan shall be supported directly from the building structure.
   Caution: To reduce risk of injury, use only the enclosed hardware as the primary means of support.

FOR INDUSTRIAL USE ONLY.

6. To reduce the risk of personal injury, do not bend the blade brackets when installing the brackets, balancing the blades, or cleaning the fan. Do not insert foreign objects in between rotating fan blades.
7. Ceiling fans without guards are to be installed at least ten feet above floor with adequate clearance between blades and adjacent walls, furnishing, etc.
8. When mounted in a cathedral ceiling, blade tips should be at least one foot from the angled roof line or air turbulence may cause fan to sway.
9. The supporting beam must be capable of holding at least 80 pounds (or the weight of the fan plus any accessories that might be added).
10. Do not operate any fan with a damaged cord or plug. Discard fan or return to an authorized service facility for examination and/or repair.
11. To reduce the risk of fire or electric shock, do not use this fan with other types of solid-state speed control devices.

Unpacking

- Carefully remove fan and parts from carton and check for shipping damage.
- Check parts list against carton contents.
- Do not install blades before mounting fan.

Electrical Hookup

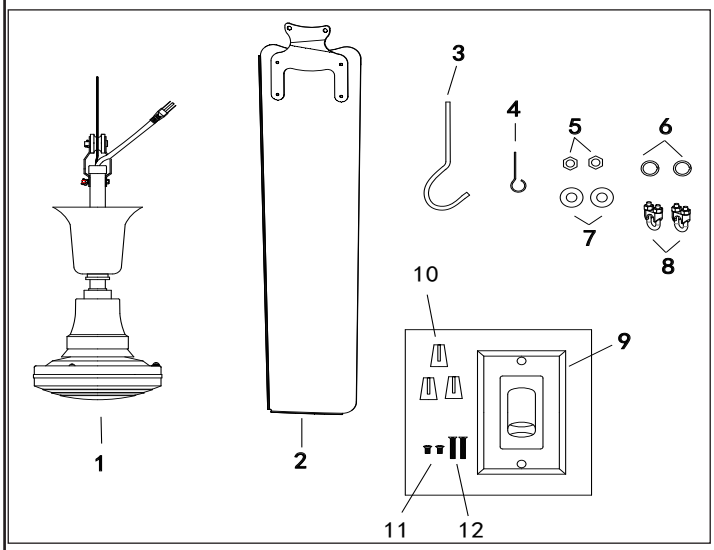
1. All electrical hookups should be made by a qualified person.
2. The installation shall be in accordance with the local codes.
3. Check state and local codes to assure proper hookup.
4. Disconnect power at main service panel.
5. Lock in open position and tag it to prevent un expected power application.
6. Check that power source conforms to electrical requirements of fan.

Product Specification	
Model	604221
Dimensions(Inches)	60
Voltage(V)	120
Frequency(Hz)	60
Wattage(W)	106
AMPS(A)	0.9
RPM	190
Decibel Rating	49
CFM Low & High	2898/7983
Horsepower	1/10
Blade Type	Aluminum
Max Ambient Temperature	104F
Coverage Area Sq Ft	250
Downrod length	9.75 inch
Total height from Bottom of Fan to Ceiling	19 inch
Net Weight(lbs)	17.3
Certification	UL LISTED

CFM Low & High: Average value of measured airflow (CFM) at low & high speed from DOE (Department of Energy) Test Report.

Tools and Supplies

- Slot, Phillips head and Screwdrivers
- Adjustable crescent wrench
- Grounded metal outlet box with single recep tacle
- Drill Bit size: 11~12mm



CONNECTS		
Part	**Qty.**	**Description**
1	1	Pre-assembled Fan without Blades
2	3	Blades with Brackets Attached
3	1	J-hook Mounting Bolt
4	1	J-hook Secondary Support Bolt
5	2	M10 Nut
6	2	10mm Spring Washer
7	2	10mm Flat Washer
8	2	Cable Lock
9	1	Speed Control
10	3	Wiring Cap
11	2	#6-32 3/4" Screw
12	2	#6-32 5/16" Screw

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Assembly Instructions

J-Hook Mounting

1. Assemble M10 nut (5), 10mm spring washer(6) and 10mm flat washer (7) onto the J-hook mounting bolt (3) as figure 1.

(Do not replace J-hook mounting bolt (3) with a lag bolt.)

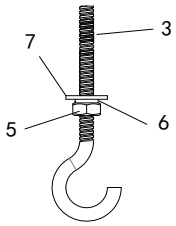


figure 1

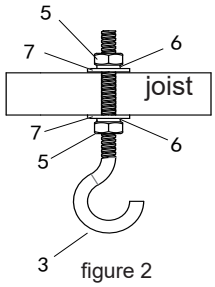


figure 2

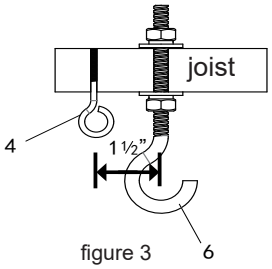
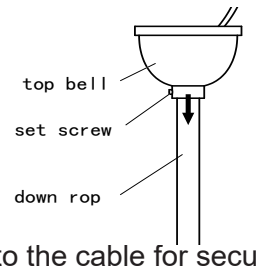


figure 3

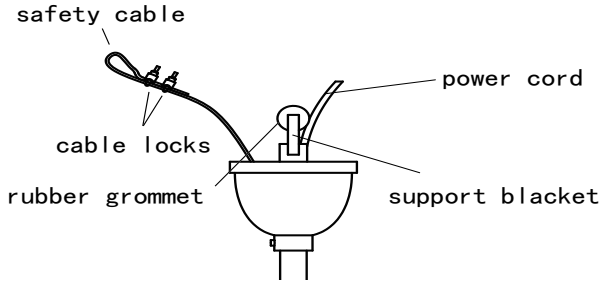
2. Using a drill and drill bit, drill a hole thru joist.
   Insert J-hook mounting bolt (3) with assembled hardware into hole and secure with 10mm flat washer (7), 10mm spring washer(6) and M10 nut (5) as figure 2.
   Fully secure J-hook mounting bolt (3) to joist by snugging top and bottom nut.
3. 1-1/2" from installed J-hook mounting bolt (3), drill a small pilot hole for mounting the J-hook secondary support bolt (4) as figure 3.
   Using pilot hole as your guide, install J-hook secondary support bolt (4) for secure installation ensuring all bolt threads are fully engaged.

Preparing to hang fan

1. Loosen set screw on top bell and slide top bell down to expose top of down rod.

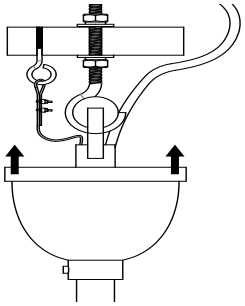


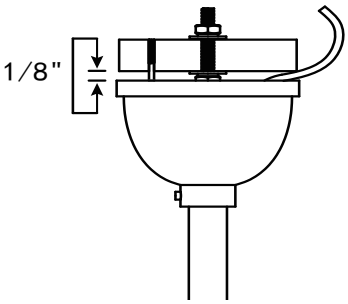
2. Attach cable locks (8) onto the cable for secure installation. Inspect the hanging and installation components to ensure that there is no shipping damage.
   Check that power cord is free from cuts or abrasions.
   Check that support bracket and rubber grommet are secure.
   Check that BOTH cable locks (8) on safety cable are tight.



Hanging fan

1. Once top of unit has passed the safety in spection, install unit.
   Insert rubber grommet into the cradle of the J-hook mount bolt (3) until fully seated and insert loop of safety cable into J-hook secondary support (4) bolt as shown.

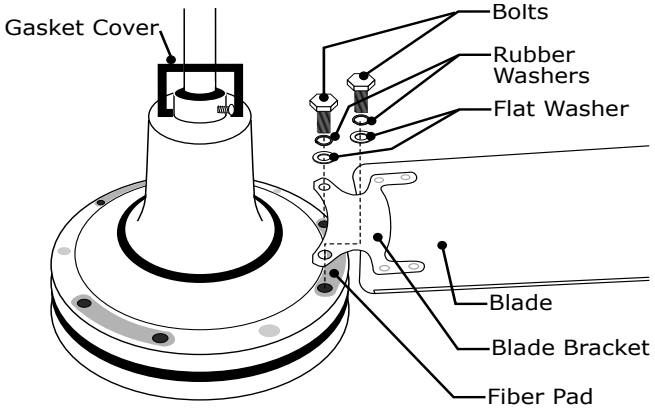




2. Slide top bell up to cover both J-hook (3&4), leaving an 1/8" gap between top of bell and hanging surface and secure in place by tightening set screw.

(The 1/8" gap is required to ensure that down rod is allowed to hang properly and not be forced off center causing fan to wobble or vibrate.)

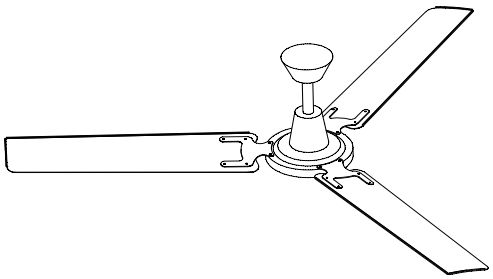
Attach Blades







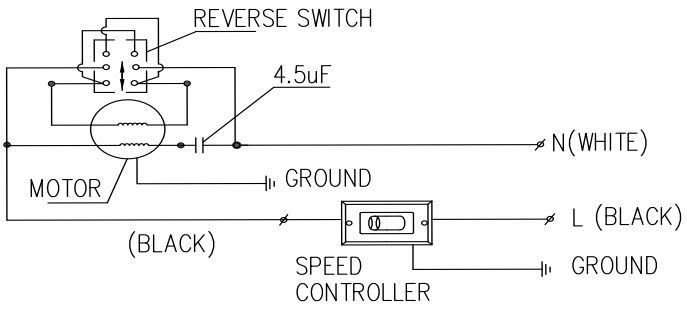
All blades MUST face the same direction.



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1. Bolts, flat washers, and fiber pads for at taching blades are located on the motor housing.
2. Brackets come already installed on blades.
3. Remove bolts from fan motor.
4. Leaving fiber pad in place on motor housing, set bracket over holes and reinstall the bolts in their original holes. Tighten into motor housing. Do not over tighten.
5. When all three blades are attached, turn power back on and test function.

Wiring Diagram



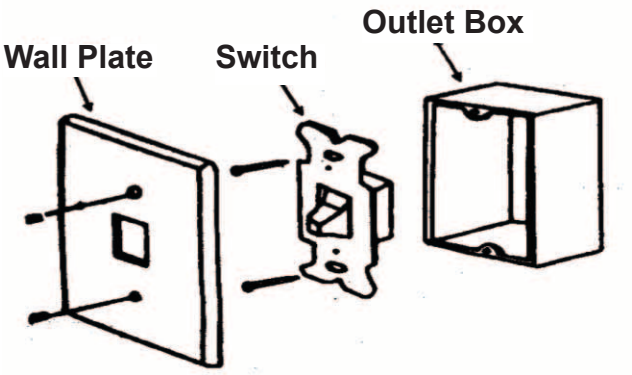
CEILING FAN WIRING DIAGRAM

Wall control installation instruction

Warning

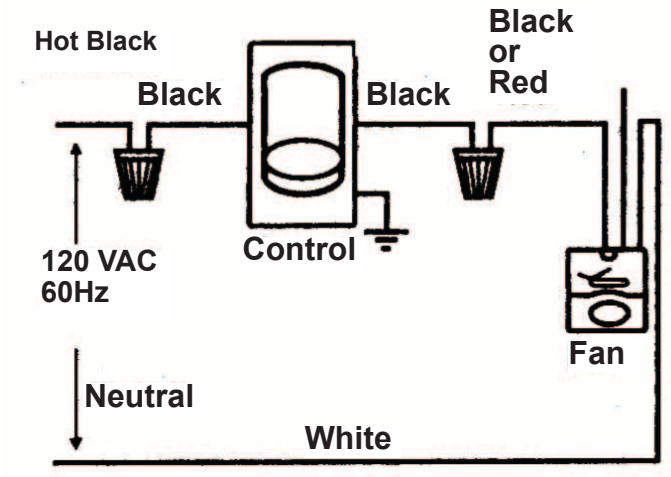
To reduce rick of fire, electric shock, and/or personal injury, wire only a single wall-control panel/switch and ceiling fan unit together. Wiring two or more ceiling fans to any single wall-control panel/switch may cause the circuitry to fail by overheating.

Please do not attempt to defeat this feature of the ceiling fan system as doing so will void the warranty, both explicit and implicit stipulations thereof.

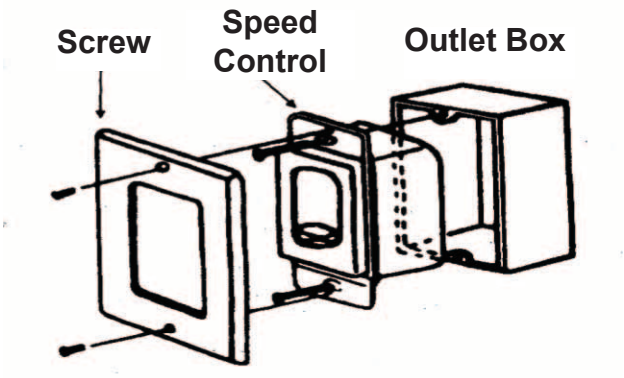


1.Turn power OFF at fuse box or circuit breaker and remove the existing wall plate and switch.

2. Make wire connections and secure with wire nuts supplied.



3. Remove the two insulated wires from the old switch. Using the wire connectors provided, attach one of the insulated wires to either of the black wires on the new fan control switch.
Attach the second insulated wire it to the other black wire on the new fan control switch.
Attach the new fan control to the outlet (wall) box and secure with 2 outlet box screws, reattach the switch cover with switch cover screws.



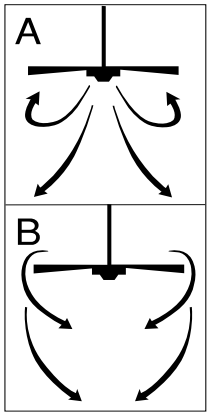
Operation

Turn on the power and check operation of fan.

The wall control the fan speeds as follows:
0 - off; 1 - high; 2 - medium high; 3 - medium; 4 - low.

Speed settings for warm or cool weather depend on factors such as room size, ceiling height, number of fans and so on.

The slide switch controls direction, forward or reverse.



Warm weather - (Forward) Fan turns counterclockwise direction. A downward air flow creates a cooling effect.
This allows you to set your air conditioner on a higher temperature setting without affecting your comfort.

Cool weather - (Reverse) Fan turns clockwise direction. An upward airflow moves warm air off the ceiling area.

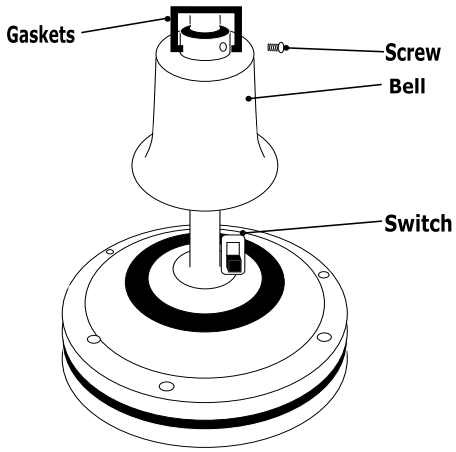
This allows you to set your heating unit on a lower setting without affecting your comfort.

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The slide switch has been included, it located on the couple yoke. Please loosen the set screw on the top of yoke cover, then slide the bell up to the down rod, after adjust the slide switch, please repeat the yoke cover.

NOTE: Turn off and wait for fan to stop before changing the setting of the forward/reverse slide switch.

Reverse Direction



1. Remove screw from bell.
2. Slide rubber gaskets and bell up to reveal switch.
3. Slide switch to change motor direction.
4. Slide rubber gaskets and bell back down.
5. Align screw hole in bell and rubber gasket with hole in down rod and reinstall screw.

Maintenance

1. Because of the fan's natural movement, some connections may become loose. Check the support connections, brackets, and blade attachments twice a year. Make sure they are secure.
2. Clean your fan periodically to help maintain its new appearance over the years. Do not use water when cleaning. This could damage the motor, or the wood, or possibly cause electrical shock.
3. Use only a soft brush or lint-free cloth to avoid scratching the finish. The plating is sealed with a lacquer coating to minimize discoloration or tarnishing.
4. There is no need to oil your fan. The motor has permanently lubricated bearings.

TROUBLESHOOTING

If you have difficulty operating your new ceiling fan, it may be the result of incorrect assembly, installation, or wiring. In some cases, these installation errors may be mistaken for defects.

If you experience any faults, please check this Trouble Shooting chart. If a problem cannot be remedied, please consult with your authorized electrician and do not attempt any electrical repairs yourself.

TROUBLE	SUGGESTED REMEDY
If fan does not start:	1. Check main and branch circuit fuses or circuit breakers. 2. Check wire connections as performed in step #9 of installation. CAUTION: Make sure main power is turned off. 3. Make sure forward/reverse switch is firmly in the right position. Fan will not operate when switch is in the middle. 4. If the fan still will not start, contact a qualified electrician. Do not attempt to troubleshoot internal electrical connections yourself.
If fan sounds noisy:	1. Check to make sure all screws in motor housing are snug (not over tightened). 2. Check to make sure the screws which attach the fan blade holder to the motor are tight. 3. Some fan motors are sensitive to signals from Solid State variable speed controls. 4. Allow "break-in" period of 24 hours. Most noises associated with a new fan will disappear after this period.
If fan wobbles:	The following procedures should eliminate most of the wobble. Check for wobble after each step. 1. Check that all blades are screwed firmly into blade holders. 2. Check that all blade holders are tightened securely to motor. 3. Make sure that canopy and mounting bracket are tightened securely to ceiling joist. 4. If blade wobble is still noticeable, interchanging two adjacent (side by side) blades can redistribute the weight and possibly result in smoother operation.