

Instruction Manual

## 1. SAFETY RULES

1. To reduce the risk of electric shock, insure electricity has been turned off at the circuit breaker or fuse box before beginning.
2. All wiring must be in accordance with the National Electrical Code and local electrical codes. Electrical installation should be performed by a qualified licensed electrician.
3. **WARNING:** Not suitable for use with solid-state speed controls.
4. **WARNING:** To reduce the risk of personal injury, use only the two steel screws (and lock washers) provided with the outlet box for mounting to the outlet box. Most outlet boxes commonly used for the support of lighting fixtures are not acceptable for fan support and may need to be replaced, consult a qualified electrician if in doubt.
5. The outlet box and support structure must be securely mounted and capable of reliably supporting a minimum of 50 pounds. Use only CUL Listed outlet boxes marked "FOR FAN SUPPORT".
6. The fan must be mounted with a minimum of 7 feet clearance from the trailing edge of the blades to the floor.
7. Do not operate reversing switch while fan blades are in motion. Fan must be turned off and blades stopped before reversing blade direction.
8. Avoid placing objects in the path of the blades.
9. To avoid personal injury or damage to the fan and other items, be cautious when working around or cleaning the fan.
10. Do not use water or detergents when cleaning the fan or fan blades. A dry dust cloth or lightly dampened cloth will be suitable for most cleaning.
11. After marking electrical connections, spliced conductors should be turned upward and pushed carefully up into outlet box. The wires should be spread apart with the grounded conductor and the equipment-grounding conductor on one side of the outlet box.
12. Electrical diagrams are reference only. Light kits that are not packed with the fan must be CUL Listed and marked suitable for use with the model fan you are installing. Switches must be CUL General Use Switches. Refer to the Instructions packaged with the light kits and switches for proper assembly.

### **WARNING**

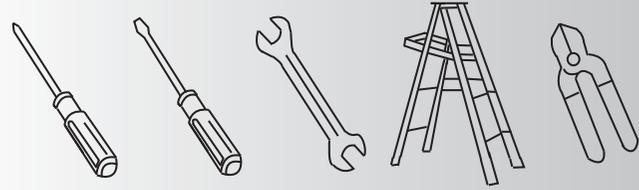
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY, MOUNT FAN TO OUTLET BOX MARKED "ACCEPTABLE FOR FAN SUPPORT".

### **WARNING**

TO REDUCE THE RISK OF PERSONAL INJURY, DO NOT BEND THE BLADE BRACKETS (ALSO REFERRED TO AS FLANGES) DURING ASSEMBLY OR AFTER INSTALLATION. DO NOT INSERT OBJECTS IN THE PATH OF THE BLADES.

## 2. TOOLS AND MATERIALS REQUIRED

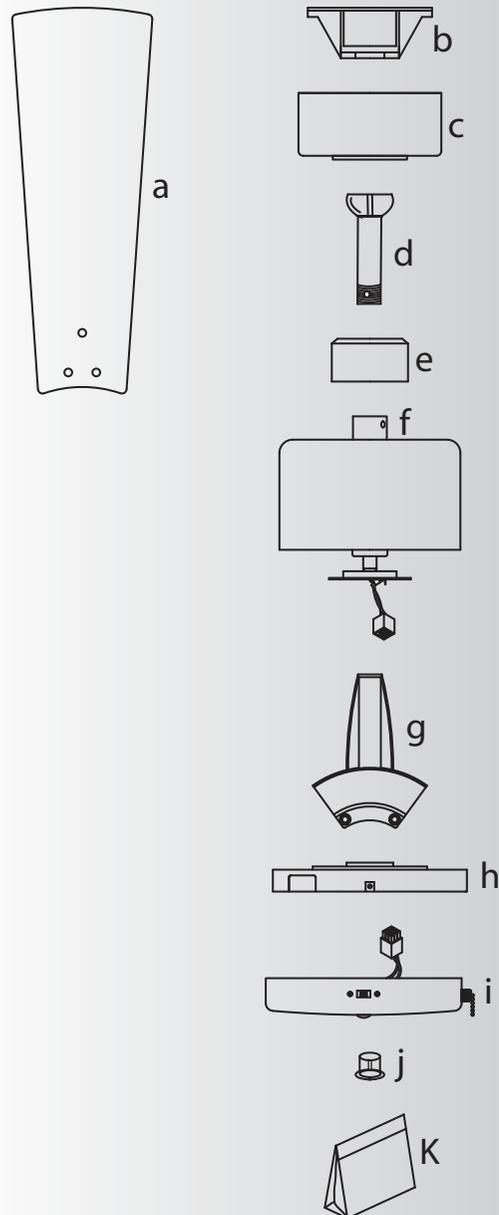
- Philips screw driver
- Blade screw driver
- 11 mm wrench
- Step ladder
- Wire cutters



## 3. PACKAGE CONTENTS

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

- a. Fan blades (5)
- b. Ceiling mounting bracket
- c. Canopy
- d. Ball/downrod assembly
- e. Coupling cover
- f. Fan motor assembly
- g. Set of 5 blade brackets and Pre-Installed mounting screws
- h. Mounting plate
- i. Switch housing
- j. Plastic plug
- k. Part bag contents
  - 1) Mounting hardware :  
wood screws (2), flat washers (2), star washers (2), wire nuts (3), screws (2)
  - 2) Blade attachment hardware:  
screws (17), fiber washers (17)
  - 3) Blade brackets hardware:  
screws (2)
  - 4) Safety cable hardware:  
wood screw, lock washer, flat washer
  - 5) Pull chains and fobs
  - 6) Balance Kit



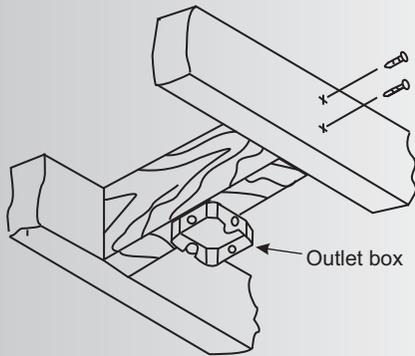


Fig. 1

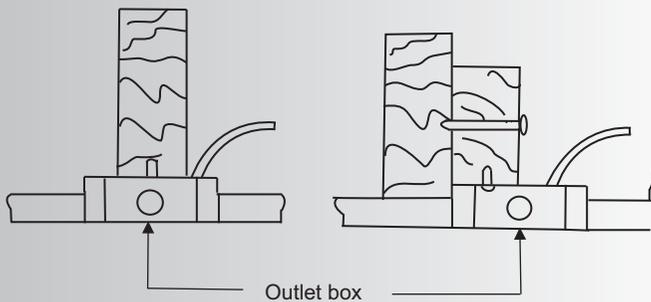


Fig. 2

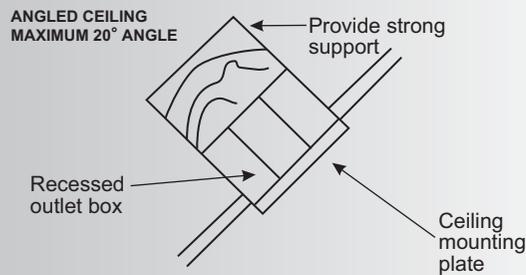


Fig. 3

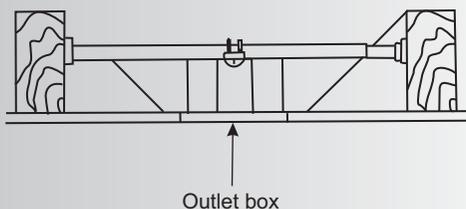


Fig. 4

## 4. MOUNTING OPTIONS

If there isn't an existing UL (cUL for Canadian Installation) listed mounting box, then read the following instructions. Disconnect the power by removing fuses or turning off circuit breakers.

Secure the outlet box directly to the building structure. Use appropriate fasteners and building materials. The outlet box and its support must be able to fully support the moving weight of the fan (at least 50 lbs). Do not use plastic outlet boxes.

Figures 1, 2 and 3 are examples of different ways to mount the outlet box.

**NOTE:** If you are installing the ceiling fan on a sloped (vaulted) ceiling, you may need a longer downrod to maintain proper clearance between the tip of the blade and the ceiling. A minimum clearance of 12" is suggested for optimal operation.

**NOTE:** Depending on the location you have selected for installation, you may need to purchase and install a "Joist Hanger" for the support of the outlet box. Make sure the joist hanger you purchase has been designed for use with ceiling fans. (Fig. 4)

## 5. HANGING THE FAN

**REMEMBER** to turn off the power before you begin.

To properly install your ceiling fan, follow the steps below.

Step 1. Remove the decorative canopy bottom cover from the canopy by turning the cover counter clockwise. (Fig. 5)

Step 2. Remove the ceiling mounting bracket from the canopy by removing (and save one of the two screws). Loosen the remaining screw by a half turn. (Fig. 5)

Step 3. Pass the 120 volt supply wires from the ceiling outlet box through the center of the ceiling mounting bracket. (Fig.6)

Step 4. Attach the ceiling mounting bracket to the outlet box using the screws and washers included with the outlet box. (Fig. 6)

Step 5. Remove the hanger ball from the downrod assembly by loosening the set screw, unscrewing and removing the cross pin and unscrewing the ball off the rod. (Fig.7)

Step 6. Loosen the two set screws and remove the hitch pin and retaining clip from the coupling on top of the motor assembly. (Fig. 8)

Step 7. Carefully feed the electrical lead wires from the fan up through the downrod. Thread the downrod into the coupling until the Hitch pin holes are aligned.

Next, replace the hitch pin and retaining clip. Tighten both set screws. (Fig. 8)

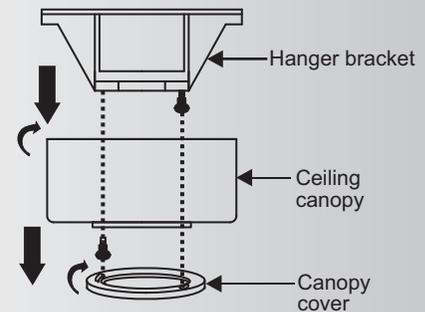


Fig. 5

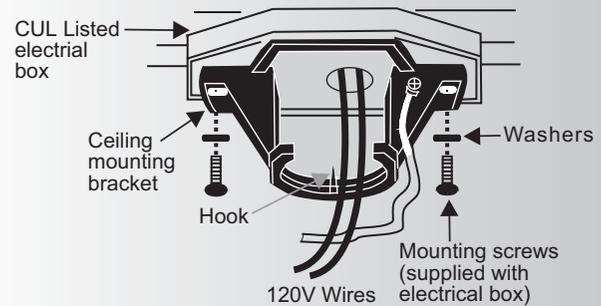


Fig. 6

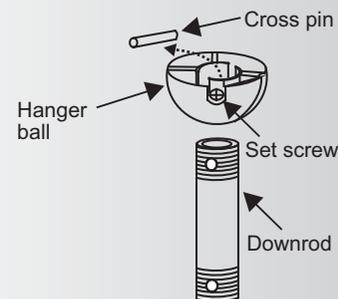


Fig. 7

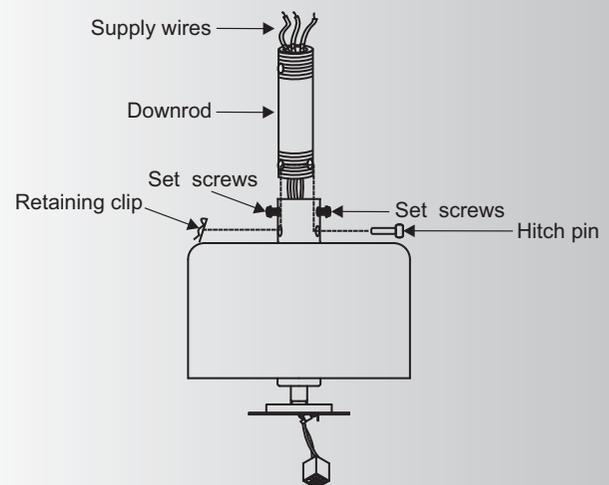


Fig. 8

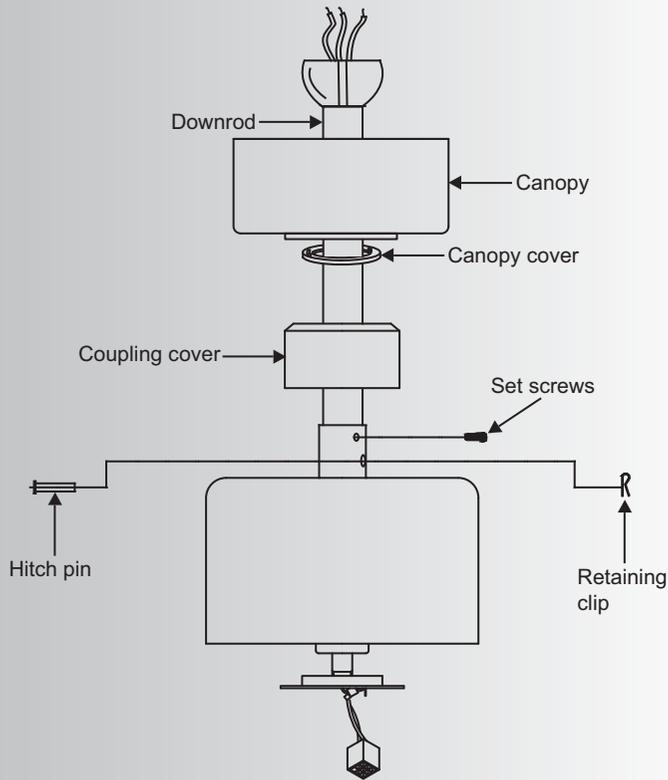


Fig. 9

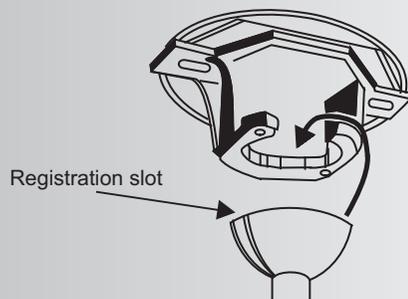


Fig. 10

Step 8. Slip the coupling cover, canopy cover and canopy onto the downrod.

Thread the hanger ball onto the downrod, insert the cross pin through the downrod and tighten. Now tighten the set screw. (Fig. 9)

Step 9. Lift the motor assembly into position and place the hanger ball into the ceiling mounting bracket.

Rotate the entire assembly until the "Check Tab" has dropped into the "Registration Slot" and seats firmly. (Fig. 10)

The entire motor assembly should not rotate (left or right) when seated properly.

**WARNING:** Failure to reattach the cross pin and seat the "Check Tab" can cause the fan to fall from the ceiling during operation. Take special care to make sure this pin is reattached.

## 6. INSTALLATION OF SAFETY SUPPORT (required for Canadian installation ONLY)

A safety support cable is provided to help prevent the ceiling fan from falling.

**Step 1.** Attach the provided wood screw and washers to the ceiling joist next to the mounting bracket but do not tighten. (Fig. 11)

**Step 2.** Adjust the length of the safety cable to reach the screw and washers by pulling the extra cable through the cable clamp until the overall length is correct, put the end of the cable back through the cable clamp, forming a loop at the end of the cable. Tighten the cable clamp securely. Now, put the loop in the end of the safety cable over the wood screw and under the washer. Tighten the wood screw securely.

**NOTE:** Although the safety support cable is required for Canadian installations only. It's a good idea to make the attachment with any installation.

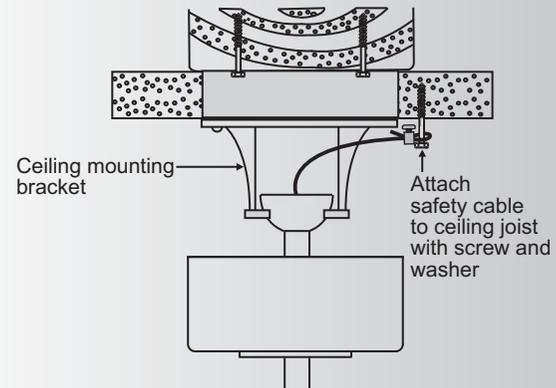


Fig. 11

## 7. ELECTRICAL CONNECTIONS

**WARNING:** To avoid possible electrical shock, be sure you have turned off the power at the main circuit panel.

Follow the steps below to connect the fan to your household wiring. Use the wire connecting nuts supplied with your fan. Secure the connectors with electrical tape. Make sure there are no loose wire strands or connections.

**Step 1.** Connect the fan supply (black) wire and light supply (blue) wire to the black household supply wire as shown in Figure 12.

**Step 2.** Connect the neutral fan (white) wire to the neutral household (white) wire.

**Step 3.** Connect the fan ground wire (green) to the household ground wire.

**Step 4.** After connecting the wires, spread them apart so that the green and white wires are on one side of the outlet box and the black wires is on the other side.

**Step 5.** Turn the connecting nuts upward and push the wiring into the outlet box.

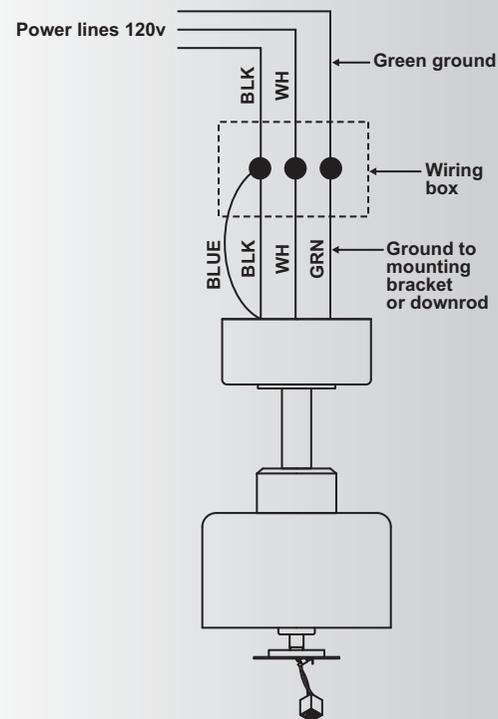
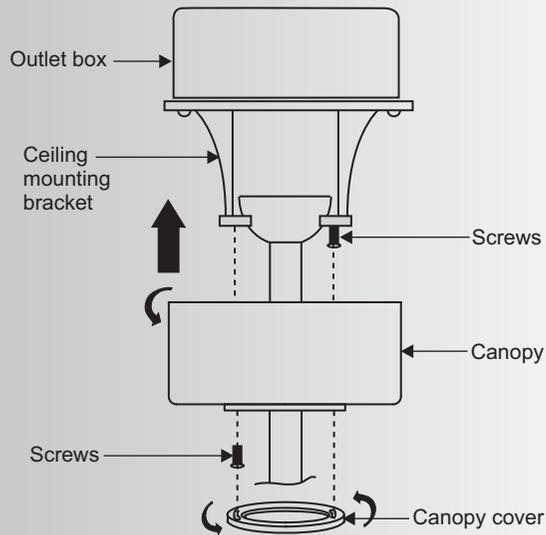


Fig. 12



**Fig. 13**

## 8. FINISHING THE INSTALLATION

Step 1. Tuck all the connections neatly into the ceiling outlet box.

Step 2. Slide the canopy up to the mounting bracket and place one of the key hole slots over the mounting screw on the mounting bracket. Rotate the canopy until the screw head locks in place at the narrow section of the key hole. See figure 13.

Step 3. Align the remaining circular hole on the canopy with the remaining hole on the Ceiling Mounting Bracket. Insert and tighten the mounting screw you removed earlier and the mounting screw from Step 2 above. Now, attach the canopy cover to the mounting screw heads by inserting the screw heads into the bottom side of the canopy cover and rotating the cover clockwise.

**NOTE:** Adjust the canopy screws as necessary until the canopy and canopy cover are snug. (Fig. 13)

**Warning:** Make sure the "Check Tab" at the bottom of the hanger bracket is properly seated in the "Registration Slot" on the side of the hanger ball before attaching the canopy to the bracket. Failure to properly seat the "Check Tab" could damage the electrical wires when to ceiling fan blade direction is changed while the fan is running.

## 9. ATTACHING THE FAN BLADES

**CAUTION:** Remove the five rubber shipping blocks attached to the face of the motor. These blocks keep the motor from shifting during shipping and **MUST** be removed during installation.

Step 1. Attach a blade to a blade bracket using the screws and fiber washers provided. (Fig. 14)

Make sure the blade is straight when set on the blade bracket. Tighten each mounting screw until the fiber washer is slightly compressed. Repeat this procedure for each blade.

Step 2. Attach each blade assembly to the motor using the "Pre-Installed" mounting screws in the blade bracket. (Fig 14)

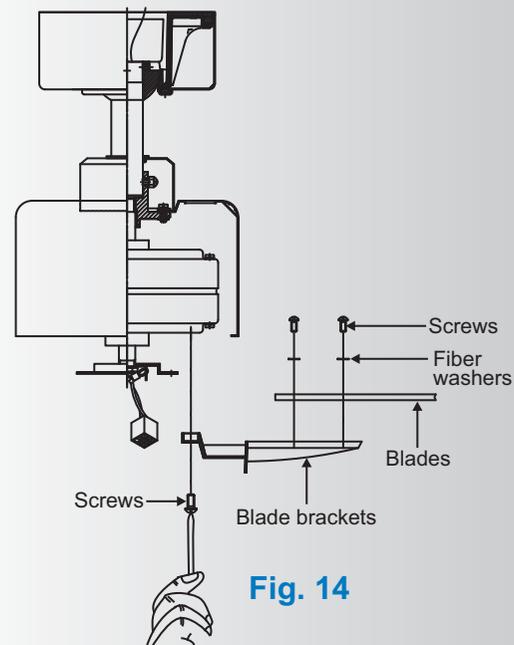


Fig. 14

## 10. INSTALLING THE MOUNTING PLATE

1. Loosen the two screws on the mounting ring attached to the motor shaft and "remove" and save the third screw. (Fig. 15)

2. Place the key holes on the mounting plate over the 2 screws previously loosened from the mounting ring, turn mounting plate until it locks in place at the narrow section of the key holes. Secure by tightening the 2 screws previously loosened and the one previously removed. (Fig. 15)

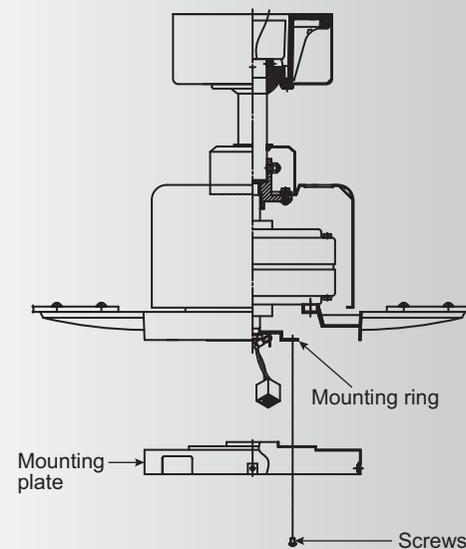
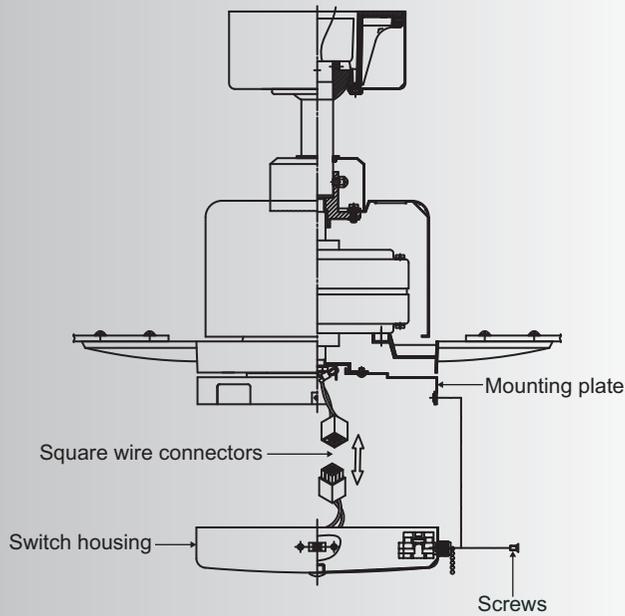


Fig. 15



**Fig. 16**

## 11. INSTALLING THE SWITCH HOUSING

1. While holding the switch housing under your ceiling fan, push the square wire connectors together. One from the fan and one from the switch housing. (Fig.16)

**NOTE:** These connectors are color coded and will **ONLY** engage when the colored strips are matched (aligned).

2. Carefully push all the wires into the switch housing.

Attach the switch housing to the mounting plate with the screws provided. Make sure each screw is tight. (Fig. 16)

## 12. OPERATING INSTRUCTIONS

Turn the power on and check the operation of your ceiling fan.

The pull chain controls the 3 speeds of your ceiling fan.

1 pull = High, 2 pulls = Medium, 3 pulls = Low and the 4th pull turns the motor off.

The Black Slide Switch on the side of the switch housing controls the direction of the blades "Forward and Reverse"

Warm weather - Forward (counter clockwise)  
A downward airflow creates a cooling effect as shown in Fig. 17. This allows you to set your air conditioner on a warmer setting without affecting your comfort.

Cool weather - Reverse (clockwise) An upward airflow moves warm air off the ceiling area as shown in Fig. 18. This allows you to set your heating unit on a cooler setting without affecting your comfort.

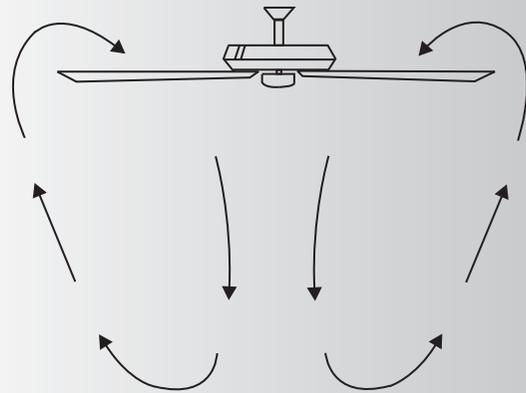


Fig. 17

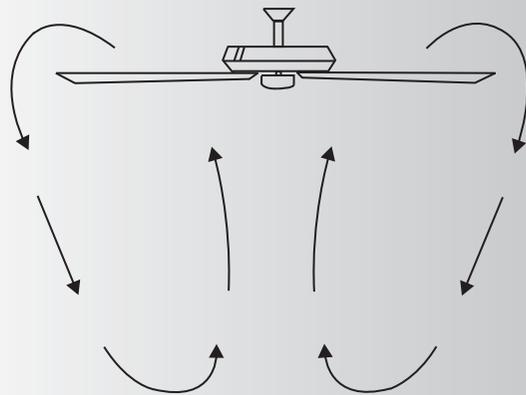


Fig. 18

## 13. TROUBLESHOOTING

Problem	Solution
Fan will not start.	<ol style="list-style-type: none"> <li>1. Check circuit fuses or breakers.</li> <li>2. Check all electrical connections to insure proper contact. <b>CAUTION:</b> Make sure the main power is OFF when checking any electrical connection.</li> </ol>
Fan sounds noisy.	<ol style="list-style-type: none"> <li>1. Make sure all motor housing screws are snug.</li> <li>2. Make sure the screws that attach the fan blade brackets to the motor are tight.</li> <li>3. Make sure wire nut connections are not rubbing against each other or the interior wall of the switch housing. <b>CAUTION:</b> Make sure main power is off.</li> <li>4. Allow a 24-hour "breaking-in" period. Most noise associated with a new fan disappear during this time.</li> <li>5. If using an optional light kit, make sure the screws securing the glassware are tight. Make sure the light bulbs are not touching any other component.</li> <li>6. Some fan motors are sensitive to signals from solid-state variable speed controls. If you have installed this type of control, choose and install another type of control.</li> <li>7. Make sure the upper canopy is a short distance from the ceiling. It should not touch the ceiling.</li> </ol>
Fan wobble.	<ol style="list-style-type: none"> <li>1. Check that all blade and blade arm screws are secure.</li> <li>2. Most fan wobbling problems are caused when blade levels are unequal. Check this level by selecting a point on the ceiling above the tip of one of the blades. Measure this distance. Rotate the fan until the next blade is positioned for measurement. Repeat for each blade. The distance deviation should be equal within 1/8".</li> <li>3. Use the enclosed Blade Balancing Kit if the blade wobble is still noticeable.</li> <li>4. If the blade wobble is still noticeable, interchanging two adjacent (side by side) blades can redistribute the weight and possibly result in smoother operation.</li> </ol>

**WARNING:** TO REDUCE THE RISK OF PERSONAL INJURY AND TO INSURE THE PROPER OPERATION OF YOUR CEILING FAN. NEVER ATTACH THE BLADE ASSEMBLIES UNTIL THE CEILING FAN HAS BEEN MOUNTING ON THE CEILING. DO NOT BEND THE BLADE ARMS WHILE INSTALLING, BALANCING OR CLEANING THE FAN. DO NOT INSERT FOREIGN OBJECTS BETWEEN ROTATING FAN BLADES.

## 14. SPECIFICATIONS

Fan Size	Speed	Volts	Amps	Watts	RPM	CFM	CFM/W	N.W.	G.W.	C.F.
42"	High	120	0.40	47.70	200	3897.13	82	10 kgs	11 kgs	1.00'
	Medium	120	0.30	25.10	150	2997.34	119			
	Low	120	0.20	10.30	96	1822.29	177			

These are approximate measurements. They do not include data for any lamps or fixtures attached to the ceiling fan.