

# ELLINGTON

CEILING FANS **by Craftmade**

READ THESE INSTRUCTIONS AND  
SAVE THEM FOR FUTURE USE



## Installation Guide

For Model:  
**PNB52ESP5**

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net weight of fan: 18.96 lb. (8.6 kg)

PRINTED IN CHINA

## SAFETY TIPS.

**WARNING:** To reduce the risk of electrical shock, turn off the electricity to the fan at the main fuse box or circuit panel before you begin the fan installation or before servicing the fan or installing accessories.

1. **READ ALL INSTRUCTIONS AND SAFETY INFORMATION CAREFULLY BEFORE INSTALLING YOUR FAN AND SAVE THESE INSTRUCTIONS.**

**CAUTION:** To avoid personal injury, the use of gloves may be necessary while handling fan parts with sharp edges.

2. Make sure all electrical connections comply with Local Codes or Ordinances, the National Electrical Code, and ANSI/NFPA 70-1999. If you are unfamiliar with electrical wiring or if the house/building wires are different colors than those referred to in the instructions, please use a qualified electrician.
3. Make sure you have a location selected for your fan that allows clear space for the blades to rotate, and at least seven (7) feet (2.13 meters) of clearance between the floor and the fan blade tips. The fan should be mounted so that the tips of the blades are at least thirty (30) inches (76 centimeters) from walls or other upright structures.
4. The outlet box and ceiling support joist used must be securely mounted, and capable of supporting at least 35 pounds (16 kilograms). The outlet box must be supported directly by the building structure. Use only CUL (Canada) or UL (USA) listed outlet boxes marked "FOR FAN SUPPORT."

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

**WARNING:** To reduce the risk of fire, electrical shock, or personal injury, wire connectors provided with this fan are designed to accept only one 12 gauge house wire and two lead wires from the fan. If your house wire is larger than 12 gauge or there is more than one house wire to connect to the corresponding fan lead wires, consult an electrician for the proper size wire connectors to use.

5. Electrical diagrams are for reference only. Light kits that are not packed with the fan must be CUL (Canada) or UL (USA) listed and marked suitable for use with the model fan you are installing. Switches must be CUL (Canada) or UL (USA) general use switches. Refer to the instructions packaged with the light kits and switches for proper assembly.
6. After installation is complete, check that all connections are absolutely secure.
7. After making electrical connections, spliced conductors should be turned upward and pushed carefully up into the outlet box. The wires should be spread apart with the grounded conductor and the equipment-grounding conductor on opposite sides of the outlet box.

**WARNING:** To reduce the risk of electrical shock, fire and to prevent humming noise do not use this fan with any solid state speed control device or control fan speed with a full range dimmer switch. [Using a full range dimmer switch to control fan speed will cause a loud humming noise from fan.] (**Note:** This fan *is* suitable for use with remote control.)

8. Do not operate the reverse switch until fan has come to a complete stop.
9. Do not insert anything between the fan blades while they are rotating.

**WARNING:** To reduce the risk of personal injury, do not bend the blade arms during assembly or after installation. Do not insert objects into the path of the blades.

**WARNING:** To avoid personal injury or damage to the fan and other items, be cautious when working around or cleaning the fan.

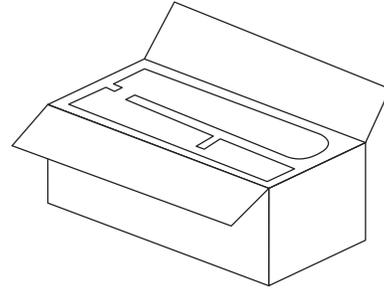
10. Do not use water or detergents when cleaning the fan or fan blades. A dry dust cloth or lightly dampened cloth will be suitable for most cleaning.

**WARNING:** To reduce the risk of personal injury, use **only** parts provided with this fan. **The use of parts OTHER than those provided with this fan will void the warranty.**

**NOTE:** The important safety precautions and instructions appearing in the manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense and caution are necessary factors in the installation and operation of this fan.

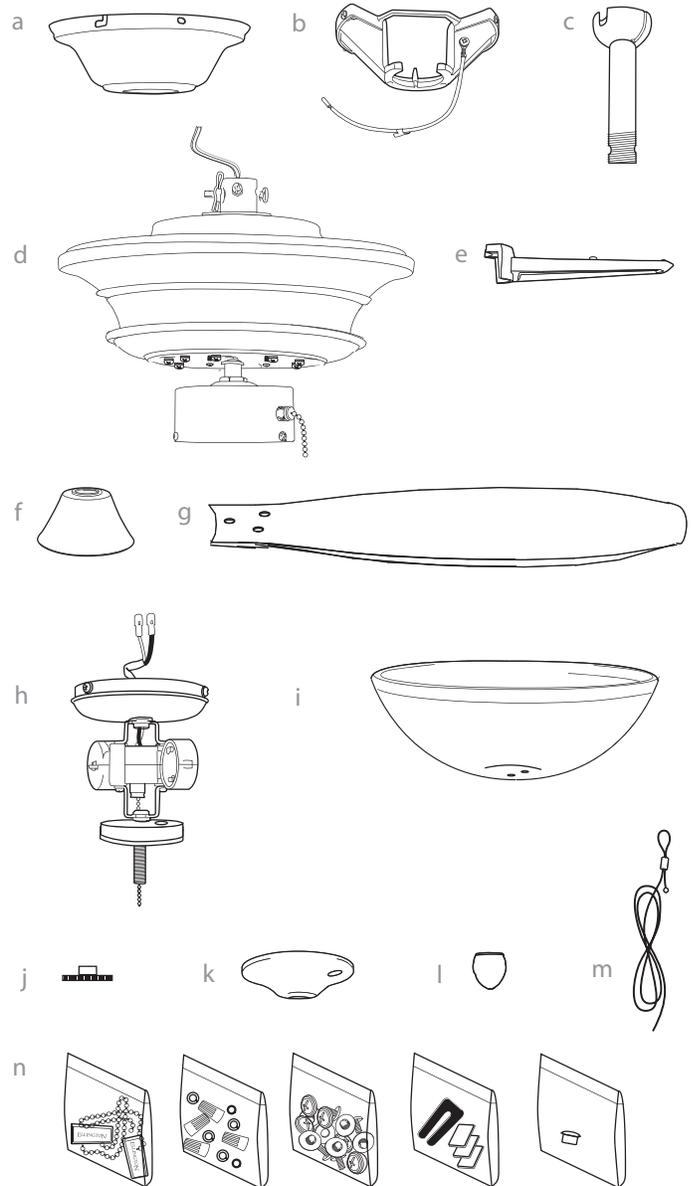
# 1. Unpacking Your Fan.

Carefully open the packaging. Remove items from Styrofoam inserts. Remove motor housing and place on carpet or Styrofoam to avoid damage to finish. Do not discard fan carton or Styrofoam inserts should this fan need to be returned for repairs. Check against parts inventory that all parts have been included.



## 2. Parts Inventory.

- a.** canopy. 1 piece
- b.** hanging bracket. 1 piece
- c.** 4½in. downrod and hanging ball. 1 piece
- d.** motor housing. 1 piece
- e.** blade arm. 5 pieces
- f.** yoke cover. 1 piece
- g.** blade. 5 pieces
- h.** light kit fitter. 1 piece
- i.** glass shade. 1 piece
- j.** threaded washer (pre-attached to light kit fitter). 1 piece
- k.** finial plate. (pre-attached to light kit fitter). 1 piece
- l.** finial (pre-attached to light kit fitter). 1 piece
- m.** safety cable (already attached to motor). 1 piece
- n.** hardware packs



**! IMPORTANT REMINDER:** You must use the parts provided with this fan for proper installation and safety. **!**

**bulbs required:**  
2 x 13 watt medium base compact  
fluorescent bulbs (included)



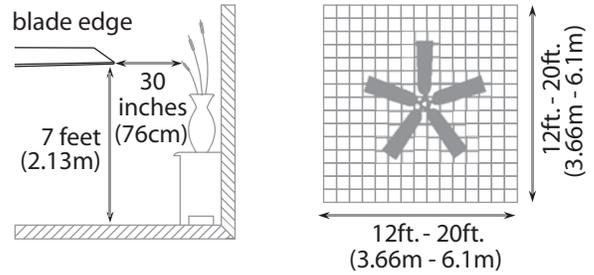
### 3. Installation Preparation.

To prevent personal injury and damage, ensure that the hanging location allows the blades a clearance of 7ft. (2,13m) from the floor and 30in. (76cm) from any wall or obstruction. This fan is suitable for room sizes up to 400 square feet (37.2 square meters).

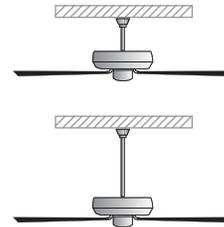
This fan can be mounted with a **downrod** on a regular (no-slope) or vaulted ceiling. The hanging length can be extended by purchasing a longer downrod (0.5in./1.27cm diameter). After installing hanging bracket, continue to Section 5 on page 4 for those instructions. Fan can also be mounted using **flushmount** installation only on a regular (no-slope) ceiling. After installing hanging bracket, continue to Section 6 on page 5 for those instructions.

**Installation requires the following tools:**

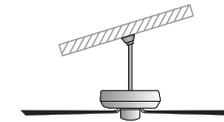
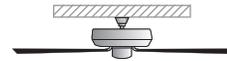
Phillips screwdriver, flat-head screwdriver, adjustable pliers or wrench, stepladder, wire cutters, and rated electrical tape.



**downrod installation**



**flushmount installation**



Vaulted ceiling angle is not to exceed 25 degrees.

### 4. Hanging Bracket Installation.

Turn off circuit breakers to current fixture from breaker panel and be sure operating light switch is turned to the OFF position.

**WARNING:** Failure to disconnect power supply prior to installation may result in serious injury.

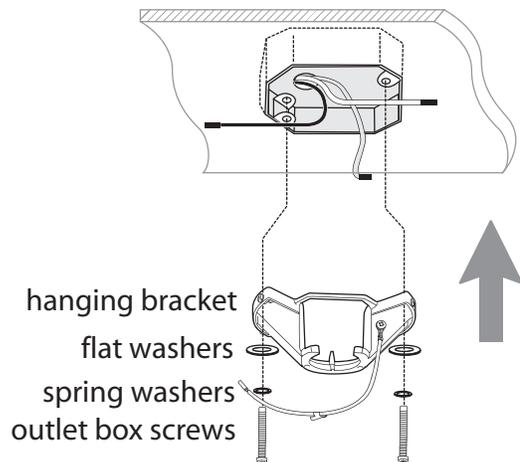
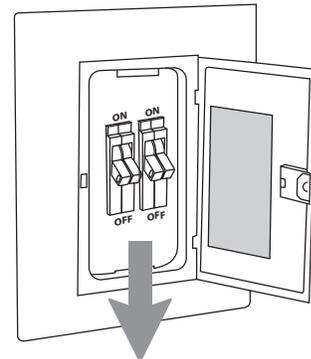
Remove existing fixture.

**WARNING:** When using an existing outlet box, be sure the outlet box is securely attached to the building structure and can support the full weight of the fan. Ensure the outlet box is clearly marked "Suitable for Fan Support." If not, it must be replaced with an approved outlet box. Failure to do so can result in serious injury.

**CAUTION:** Be sure outlet box is grounded properly and that a ground wire (**GREEN** or bare) is present.

Install hanging bracket to outlet box using original screws, spring washers and flat washers provided with new or original outlet box.\* If installing on a vaulted ceiling, face opening of hanging bracket towards high point of ceiling. Arrange electrical wiring around the back of the hanging bracket and away from the bracket opening.

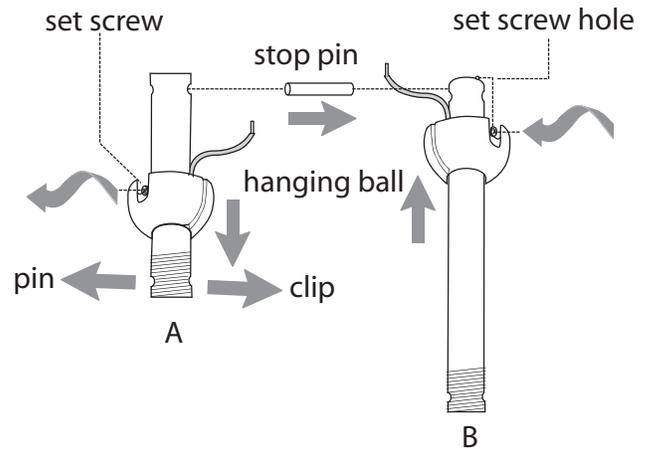
**\*Note:** It is very important that you use the proper hardware when installing the hanging bracket as this will support the fan.



## 5. Fan Assembly (with downrod).

If you wish to extend the hanging length of your fan, you must remove the hanging ball from the 4½in. downrod provided to use with an extended downrod (sold separately). [If you wish to use the 4½in. downrod, please proceed to instructions following the dotted line below.]

To remove hanging ball, loosen set screw on hanging ball, lower hanging ball and remove stop pin. Slide hanging ball off the original downrod, A, and slide it down the longer downrod, B (the top of the downrod should be noted as having a set screw hole; use this hole when setting the set screw). Insert stop pin into top of extended downrod and raise hanging ball. Be sure stop pin aligns with slots on the inside of the hanging ball. Tighten set screw securely.



**Tip:** To prepare for threading electrical wires through downrod, apply a small piece of electrical tape to the ends of the electrical wires--this will keep the wires together when threading them through the downrod.

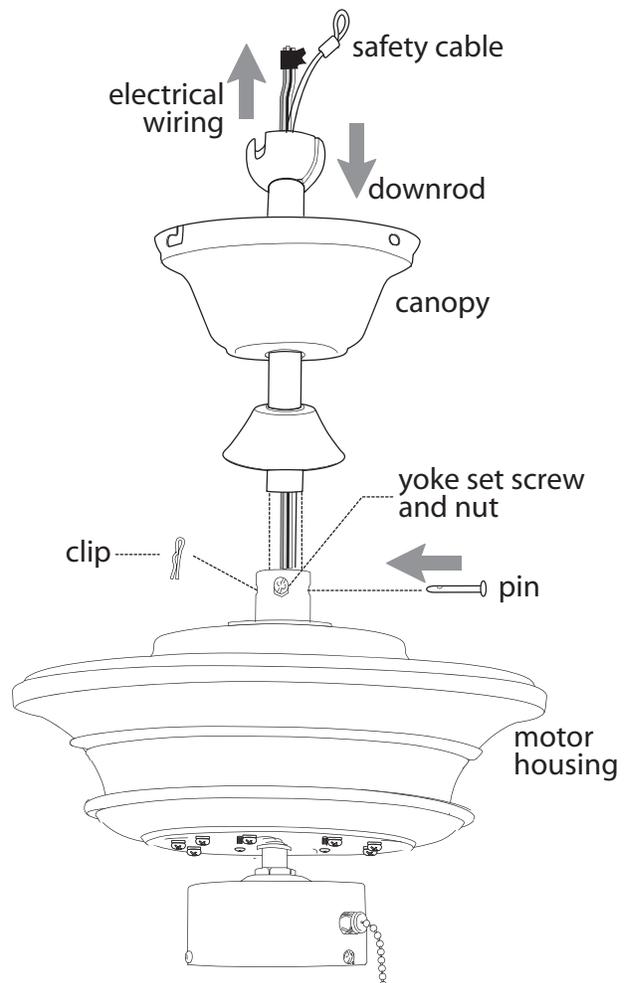
Loosen yoke set screws and nuts and remove pin and clip at top of motor housing. Slide downrod through canopy and yoke cover.

Thread safety cable and electrical wires through downrod and pull extra wire slack from the upper end of the downrod.

Thread downrod into the motor housing yoke until holes for pin and clip in downrod align with holes in yoke--*make sure wires do not get twisted*. Re-insert pin and clip that were previously removed. Tighten yoke set screws and nuts securely. Lower yoke cover to motor housing.

**["Fan Assembly" continued on next page.]**

**NOTE:** The important safety precautions and instructions appearing in the manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense and caution are necessary factors in the installation and operation of this fan.



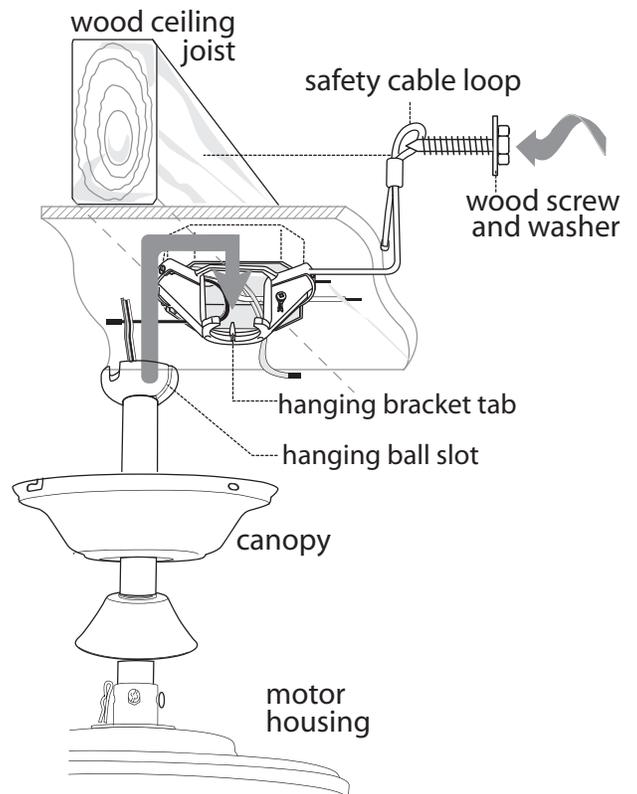
## 5. Fan Assembly (with downrod). (cont.)

With the hanging bracket secured to the outlet box and able to support the fan, you are now ready to hang your fan. Grab the fan firmly with two hands. Slide downrod through opening in hanging bracket and let hanging ball rest on the hanging bracket. Turn the hanging ball slot until it lines up with the hanging bracket tab.

**WARNING:** Failure to align slot in hanging ball with tab in hanging bracket may result in serious injury or death.

**Tip:** Seek the help of another person to hold the stepladder in place and to help lift the fan up to you once you are set on the ladder.

Find a secure attachment point (wood ceiling joist highly recommended) and secure safety cable. It will be necessary to use a heavy duty wood screw, washer and lock washer (not supplied) with the safety cable loop. If necessary, adjust the loop at the end of the safety cable. The loop at the end of the safety cable should just fit over the threads on the wood screw. Extra cable slack can be left in ceiling area.



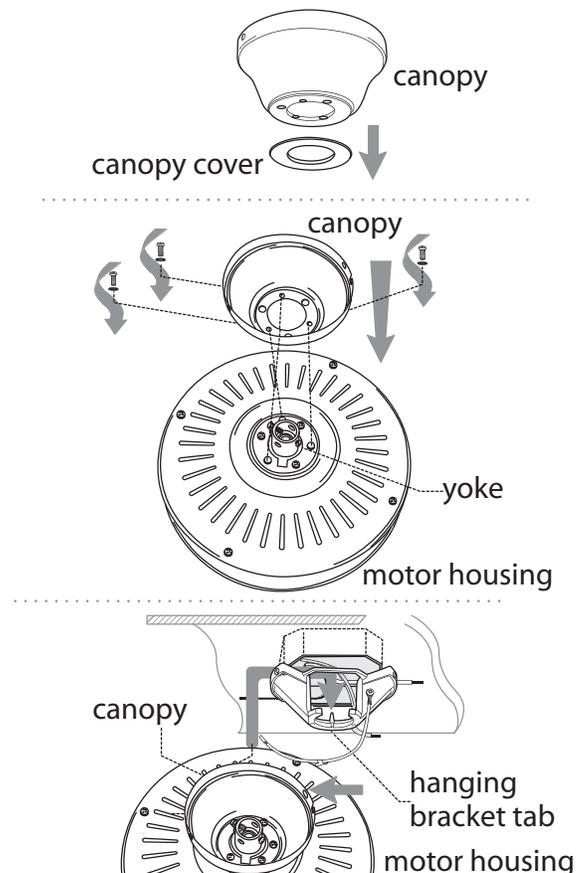
## 6. Fan Assembly (flushmount).

Remove and set aside canopy cover to reveal 6 holes. Notice that 3 of these holes are larger than the rest of them.

If there are only **3** screws in top of motor housing, please proceed to next paragraph. If there are **6** screws in top of motor housing, remove every other screw and lock washer.

Thread wiring through canopy. Place canopy over yoke, aligning larger holes in canopy with the 3 existing screws in top of motor housing. Insert the 3 screws and 3 lock washers that were removed (if there were only 3 screws located in top of motor housing, these screws/lock washers will be located in one of the hardware packs) into the remaining holes. Securely tighten these screws.

To prepare the fan for wiring, hang fan onto hanging bracket by sliding the canopy over the hanging bracket tab. (Use one of the non-slotted holes on the rim of the canopy to do so.)



## 7. Wiring.

**CAUTION:** Be sure outlet box is properly grounded or that a ground wire (**GREEN** or Bare) is present.

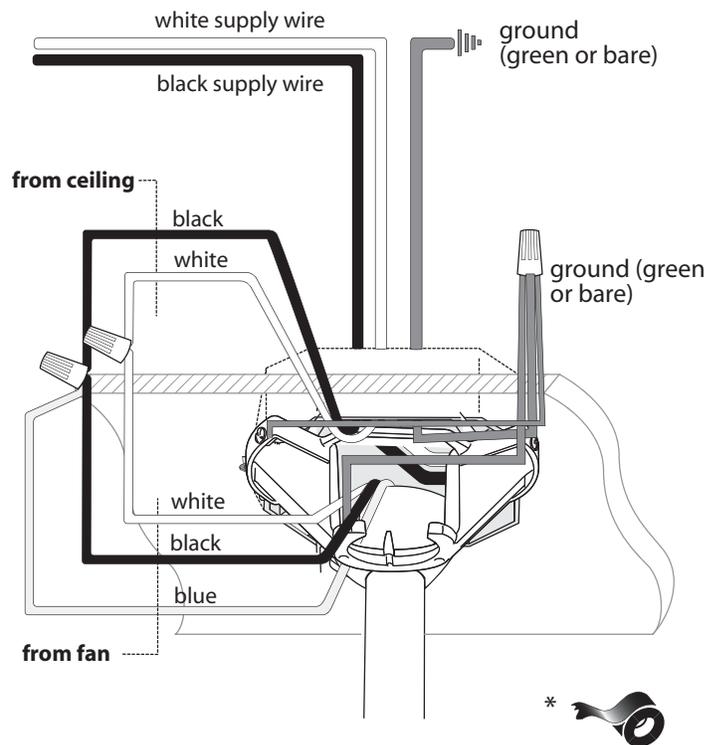
Make sure all electrical connections comply with Local Codes or Ordinances and the National Electrical Code. If you are unfamiliar with electrical wiring or if the house/building wires are different colors than those referred to below, please use a qualified electrician.

**Note:** Excess lead wire length from the fan can be cut to the desired length and then stripped.

When fan is secured in place on the hanging bracket, electrical wiring can be made as follows: Connect **BLACK** and **BLUE** wire from fan to **BLACK** wire from ceiling with wire connector provided. Connect **WHITE** wire from fan to **WHITE** wire from ceiling with wire connector provided. Connect all **GROUND (GREEN)** wires together from fan to **BARE/GREEN** wire from ceiling with wire connector provided.

If you intend to control the fan light with a separate light switch, connect **BLUE** wire from fan to the **BLACK** (or **RED**) supply from the independent switch.

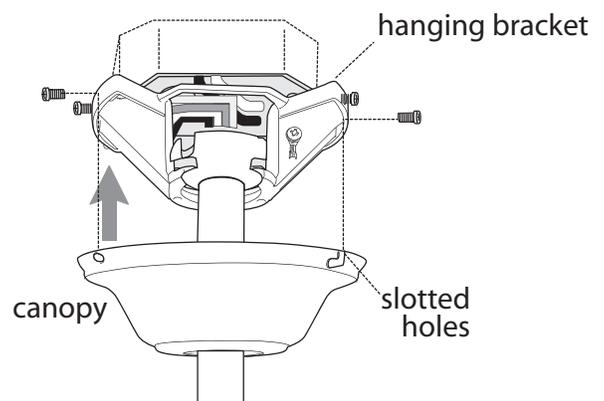
\* Wrap each wire connector separately with electrical tape as an extra safety measure.



## 8. Canopy Assembly.

Temporarily raise canopy to hanging bracket to determine which 2 screws in hanging bracket align with **slotted** holes in canopy, and then lower canopy and *partially loosen* these 2 screws. Remove the **other** 2 screws and set aside.

Now, lift canopy to hanging bracket again, aligning slotted holes in canopy with loosened screws in hanging bracket. Twist canopy to lock. Re-insert the other 2 screws and secure all screws with Phillips screwdriver.



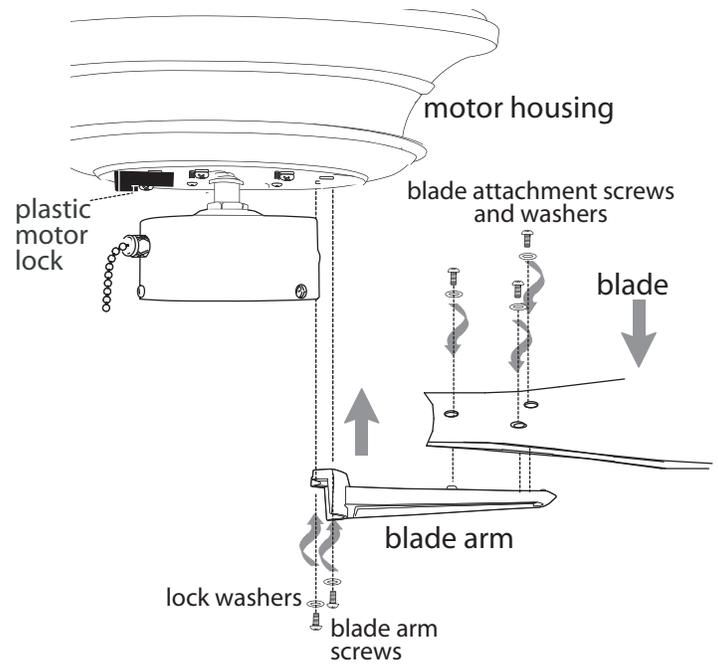
## 9. Blade Assembly.

**Time Saver:** Washers for blade screws can be set on each blade screw prior to installing blades.

Locate 15 blade attachment screws and washers in hardware pack. Hold blade arm up to blade and align holes. Insert 3 blade attachment screws (along with washers) with fingers first and then tighten screws securely with Phillips screwdriver. Repeat procedure for the remaining blades.

Remove blade arm screws and lock washers from underside of motor. If plastic motor locks are installed with blade arm screws, discard plastic motor locks (*save blade arm screws and lock washers to secure blade arms*). Align blade arm holes with motor screw holes and attach blade arm with lock washers and blade arm screws. Before securing screws permanently, repeat procedure with remaining blade arms. Securely tighten all screws.

**Note:** Tighten blade arm screws twice a year.



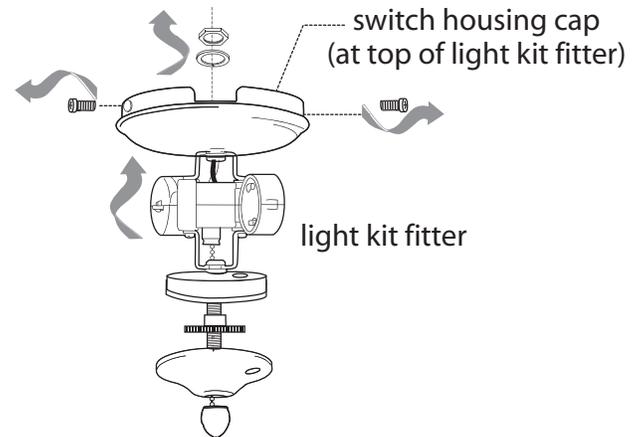
## 10. Light Kit Assembly (Optional).

Remove 3 screws from switch housing cap (at top of light kit fitter).

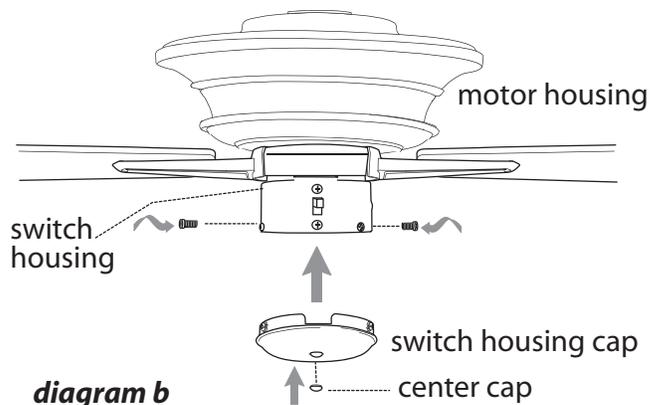
**If you wish to use fan *WITHOUT* the light kit,** remove the hex nut and lock washer from threaded rod on light kit fitter and then remove the switch housing cap. (Refer to **diagram a**.)

Locate small cap in one of the hardware packs and place firmly in hole in center of switch housing cap. Align holes in switch housing cap with holes in switch housing. (**Note:** The gap on the top edge of the switch housing cap must align with the reverse switch on the switch housing for the proper fit.) Attach switch housing cap to switch housing with 3 screws that were previously removed. (Refer to **diagram b**.)

**[If you wish to use fan *WITH* the Light Kit, please proceed to next page.]**



**diagram a**



**diagram b**

## 10. Light Kit Assembly (Optional). (cont.)

If you wish to use fan **WITH** the light kit, locate **BLUE** (or **BLACK**) and **WHITE** wires in the switch housing labeled FOR LIGHT KIT CONNECTIONS. Remove and discard plastic that holds these 2 wires together. Do **NOT** remove the cardboard label. (Refer to **diagram c**.)

Connect **WHITE** wire from switch housing to **WHITE** wire from light kit fitter. Connect **BLUE** (or **BLACK**) wire from switch housing to **BLACK** wire from light kit fitter. Be sure molex connections snap together securely. (Refer to **diagram c**.)

Align holes in switch housing cap with holes in switch housing. (**Note:** The gap on the top edge of the switch housing cap must align with the reverse switch on the switch housing for the proper fit.) Attach light kit fitter to switch housing with 3 screws that were previously removed. Secure all 3 screws with Phillips screwdriver.

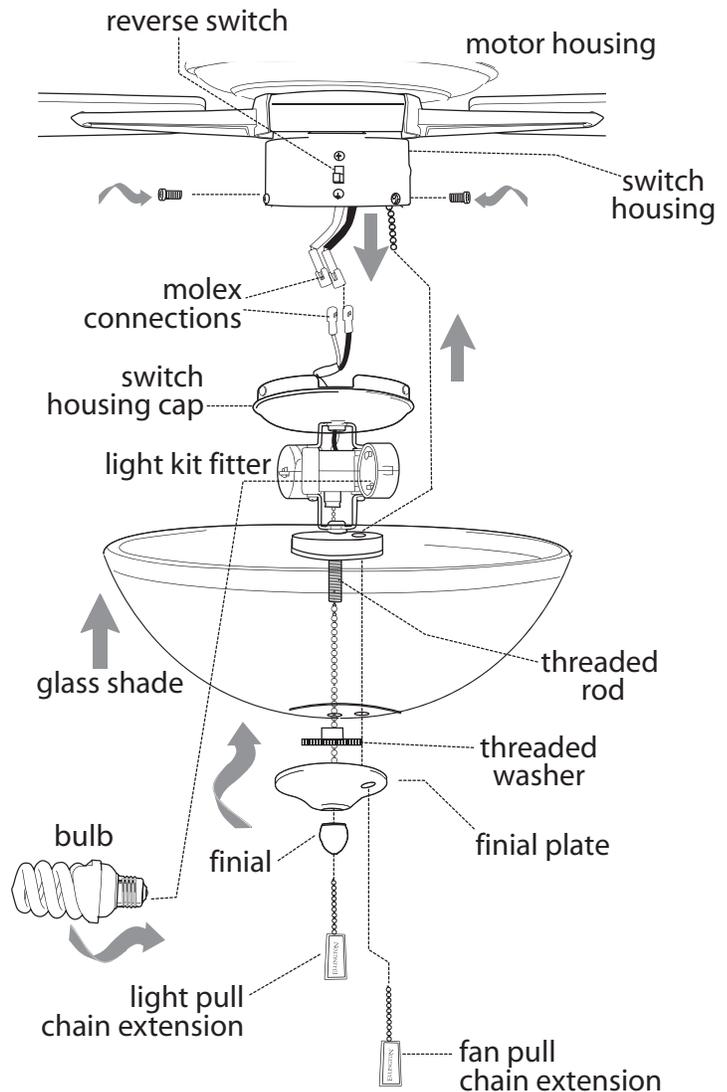
Install 2 medium base 13 watt compact fluorescent bulbs (included).

**Important:** When replacing bulbs, please allow bulbs and glass shade to cool down before touching.

Remove finial, finial plate and threaded washer from bottom of light kit fitter.

Raise glass shade in order to guide pull chains through corresponding holes in glass shade. Align threaded rod on light kit fitter with hole in middle of glass shade and push up gently allowing threaded rod to come through hole. (*Be sure pull chain for fan operation does not rub against bulb during operation.*) Secure glass shade with threaded washer. (Refer to **diagram c**.) **Note:** Do **NOT** overtighten threaded washer as glass may crack or break.

Align hole in center of finial plate with threaded rod, allowing pull chains to come through appropriate holes in finial plates and push up. Thread center pull chain through hole in finial; secure glass shade by tightening finial. **Note:** Do **NOT** overtighten finial as glass may crack or break.



**diagram c**

	<b>LAMP CONTAINS MERCURY</b>	
Manage in accordance with Spills, Disposal and Site Cleanup Requirements. In case of breakage, follow clean-up procedures provided by contacts below.		
<a href="http://www.epa.gov/cflcleanup">www.epa.gov/cflcleanup</a> 1-866-284-4010		

# 11. Testing Your Fan.

It is recommended that you test fan before finalizing installation. Restore power from circuit box and wall switch (if applicable). Test fan speeds with the pull chain on the switch housing. Start at the OFF position (no blade movement). First pull will set the fan to HI. Second pull will set the fan to MEDIUM. Third pull will set the fan to LOW. Fourth pull will re-set the fan to OFF setting. If applicable, test light with the pull chain in the middle. (Refer to **diagram 1**.) If fan and/or light do (does) not function, please refer to "Troubleshooting" section to solve any issues before contacting Customer Service.

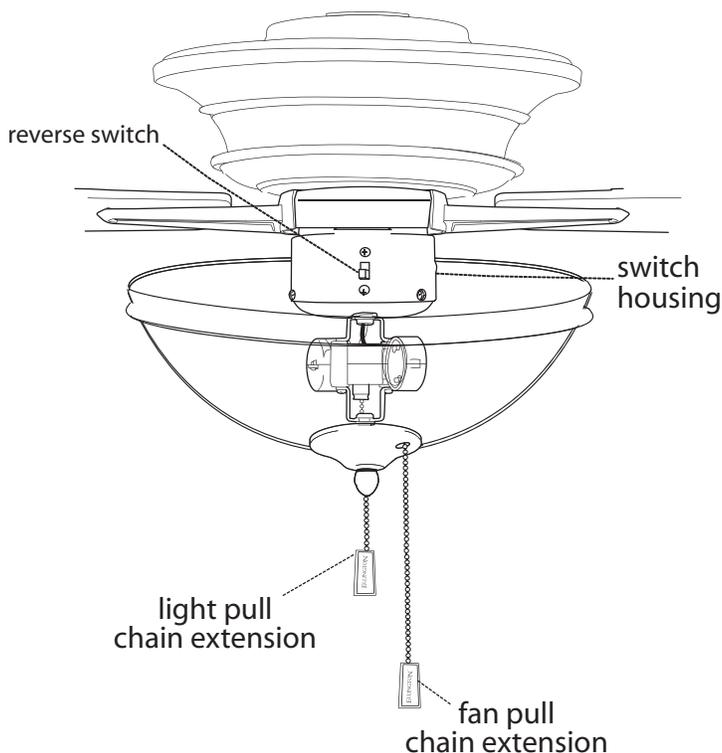
Turn fan completely off *before* moving the reverse switch. Set reverse switch to recirculate air depending on the season:

- UP position in winter (**diagram 2**)
- DOWN position in summer (**diagram 3**)

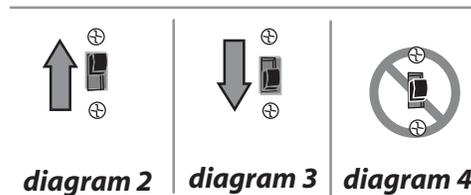
A ceiling fan will allow you to raise your thermostat setting in summer and lower your thermostat setting in winter without feeling a difference in your comfort.

**Important:** Reverse switch must be set either *completely UP* or *completely DOWN* for fan to function. If the reverse switch is set in the *middle* position (**diagram 4**), fan will not operate.

Attach pull chain extension(s) supplied or custom pull chain extension(s) (sold separately) to the end(s) of the pull chain(s).



**diagram 1**



## Troubleshooting.

**WARNING:** Failure to disconnect power supply prior to troubleshooting any wiring issues may result in serious injury.

**Problem:** Fan fails to operate.

**Solutions:**

1. Check wall switch to fan.
2. Verify that reverse switch is set completely in either direction.
3. Check to be sure fan is wired properly.

**Problem:** Light kit (optional) not lighting.

**Solutions:**

1. Check wall switch to fan.
2. Check that bulbs are installed correctly.
3. Check to be sure wires in canopy are wired properly.
4. Verify that molex connections in switch housing are connected properly.

**Problem:** Fan operates but light fails (if applicable).

**Solutions:**

1. Check that bulbs are installed correctly.
2. Check to be sure wires in canopy are wired properly.
3. Verify that molex connections in switch housing are connected properly.
4. Replace defective bulbs with same type of bulb.

**Problem:** Fan wobbles.

**Solution:**

1. Use the balancing kit provided in one of the hardware packs. *If no blade balancing kit is provided, please call Customer Support, 1-800-486-4892, to request one.*
2. Check to make sure set screw(s) on motor housing yoke is (are) tightened securely.
3. Check to be sure set screw on hanging ball is tightened securely.

## Warranty.

ELLINGTON LIFETIME LIMITED WARRANTY:

ELLINGTON/LITEX INDUSTRIES, LTD. warrants this fan to the original household purchaser for indoor use under the following provisions:

1-YEAR WARRANTY: ELLINGTON/LITEX INDUSTRIES, LTD. will replace or repair any fan which has faulty performance due to a defect in material or workmanship. Contact Litex Customer Service at **1-800-486-4892** to arrange for return of fan. Return fan, shipping prepaid, to Litex Industries, Ltd. We will repair or ship you a replacement fan, and we will pay the return shipping cost.

5-YEAR WARRANTY: ELLINGTON/LITEX INDUSTRIES, LTD. will repair or replace, at no charge to the original purchaser, any fan motor that fails to operate satisfactorily when failure results from normal use.

RETURN FAN MOTOR ONLY, shipping prepaid, to Litex Industries. We will repair or ship purchaser a replacement motor and Litex will pay the return shipping cost.

6-YEAR to LIFETIME LIMITED WARRANTY: ELLINGTON/LITEX INDUSTRIES, LTD. will repair the fan, at no charge for labor only to the original purchaser, if the fan motor fails to operate satisfactorily when failure results from normal use. Parts used in the repair will be billed to the purchaser at prevailing prices at time of repair.

The purchaser shall be responsible for all costs incurred in the removal, reinstallation and shipping of the product for repairs.

This warranty does not apply when damage from mechanical, physical, electrical or water abuse results in causing the malfunction. Deterioration of finishes or other parts due to time or exposure to salt air is specifically exempted under this warranty.

Neither Litex Industries nor the manufacturer will assume any liability resulting from improper installation or use of this product. In no case shall the company be liable for any consequential damages for breach of this, or any other warranty expressed or implied whatsoever. This limitation as to consequential damages shall not apply in states where prohibited.

## Parts Replacement.

For parts and information, please refer to "Parts Inventory" on page 2.

Ellington Customer Support:

**1-800-486-4892**

[www.ellingtonfans.com](http://www.ellingtonfans.com)

**ELLINGTON**  
CEILING FANS by Craftmade