ELLINGTON®

Elevating Style®

Federal regulations require ceiling fans with light kits manufactured or imported after January 1, 2009, to limit total wattage consumed by the light kit to 190W. Therefore, this fan is equipped with a wattage limiting device.

Installation Guide

For Models:

E-AML48ABZ3LKRW
E-AML48BNK3LKRW

Table of Contents:

c(UL)us
LISTED
E206035

net weight of fan: 13 lb (5.9 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 box must be supported directly by the building structure. Use only UL 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 lb) 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 two 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 UL listed and marked suitable for use with the model fan you are installing. Switches must be UL 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 fire or electrical shock, 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.]

8. Do not operate the reverse switch until fan has come to a complete stop. [**Note**: If using remote control with reverse capability, reverse fan blade direction *only* when on LOW speed.]

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.
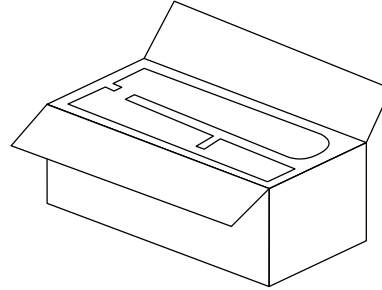
2. Parts Inventory.

a. canopy. 1 piece

b. hanging bracket (pre-attached to canopy). 1 piece

c. 8-inch downrod and hanging ball (with pin and clip). 1 piece

d. yoke cover. 1 piece

e. remote control transmitter. 1 piece

f. motor housing. 1 piece

g. remote control receiver. 1 piece

h. light kit fitter (pre-attached to motor housing). 1 piece

i. glass shade. 1 piece

j. blade. 3 pieces

k. safety cable with vice (already attached to motor). 1 piece

l. wall control and plate. 2 separate pieces

m. hardware packs

a
b
c
d
e
f
g
h
i
j
k
l
m

w/ wall control   w/ remote
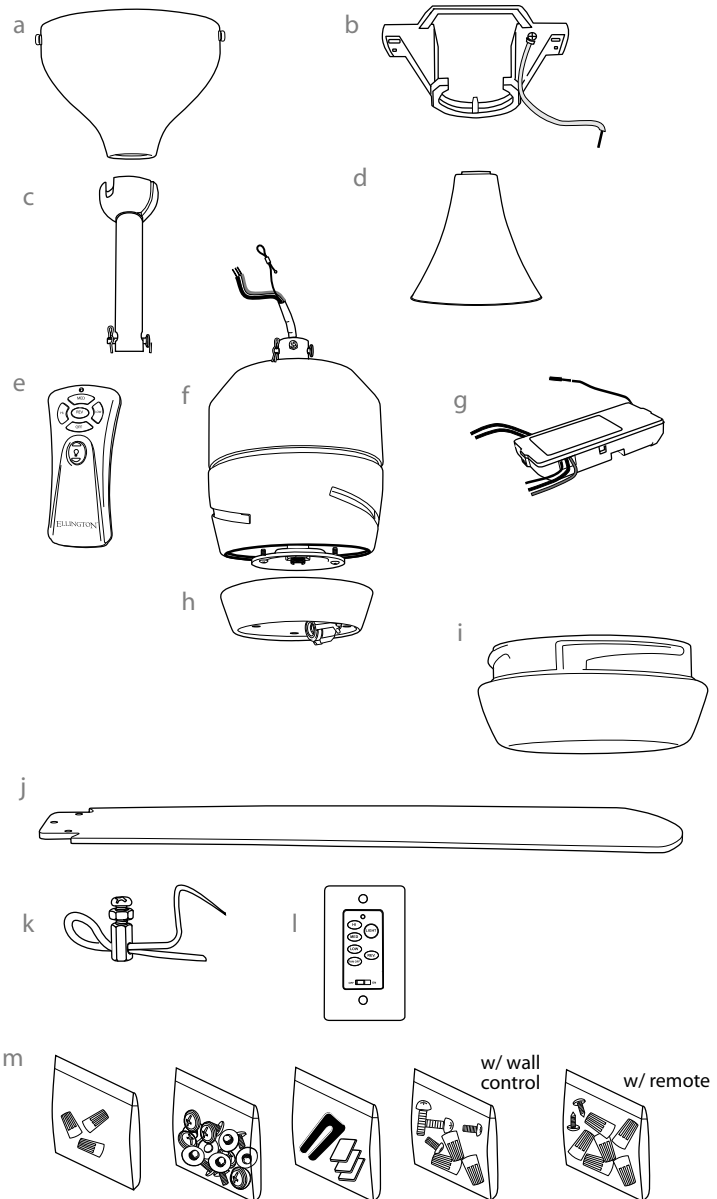
⚠ **IMPORTANT REMINDER**: You must use the parts provided with this fan for proper installation and safety. ⚠

bulb required:
1 x 75 watt max. halogen bulb, type JD E11 (included)

3. Installation Preparation.

To prevent personal injury and damage, ensure that the hanging location allows the blades a clearance of 7 feet (2.13 m) from the floor and 30 in (76 cm) from any wall or obstruction.
This fan is suitable for room sizes up to 225 square feet (20,9 square meters).

blade edge
30 inches (76 cm)
7 feet (2.13 m)
12 ft. - 15 ft. (3.66 m - 4.57 m)
12 ft. - 15 ft. (3.66 m - 4.57 m)
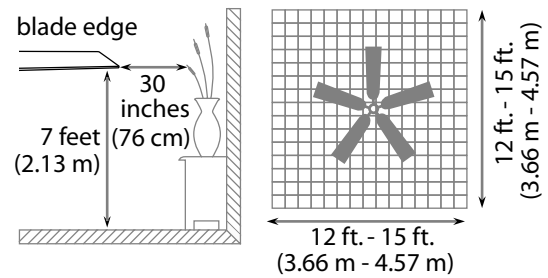
This fan can be mounted with a **downrod** on a regular (no-slope) or vaulted ceiling. The hanging length can be extended by purchasing a longer downrod (0.5in /1.27cm diameter). Other installation, such as **flushmount**, in *not* available for this fan.

downrod installation

flushmount installation

Vaulted ceiling angle is not to exceed 25 degrees.

Installation requires these tools:
Phillips screwdriver, flat-head screwdriver, adjustable pliers or wrench, stepladder, wire cutters, and rated electrical tape.
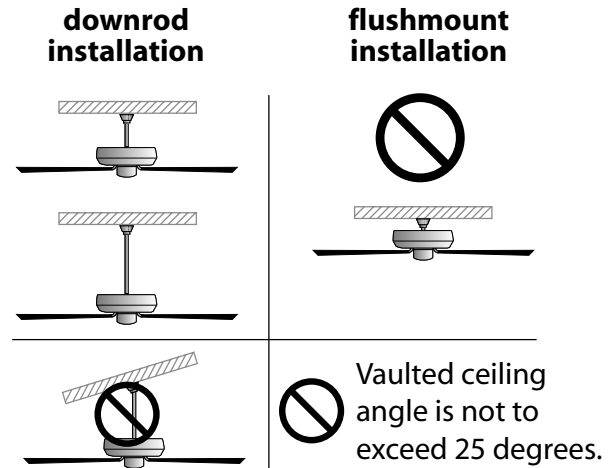
4. Hanging Bracket Installation.

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 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.*

Partially loosen screws in slotted holes on opposite sides of canopy. Remove the other 2 screws along with lock washers--*save for later use.* Twist canopy to remove hanging bracket from canopy.

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.*

hanging bracket
flat washers
spring washers

outlet box screws

ON   ON
OFF OFF
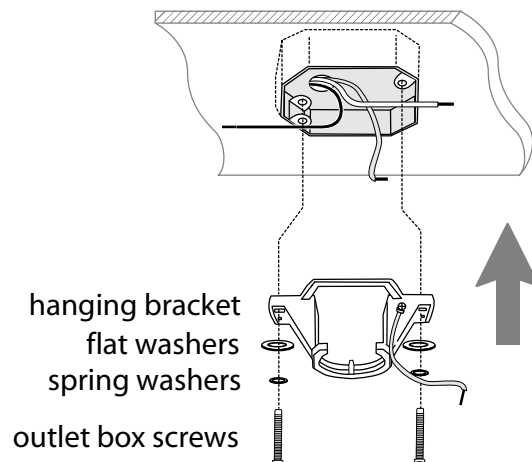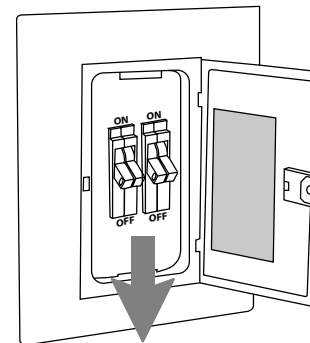
5. Fan Assembly.

If you wish to extend the hanging length of your fan, you must remove the hanging ball from the 8in. downrod provided to use with an extended downrod (sold separately). [*If you wish to use the 8in. downrod, please proceed to instructions following the dotted line below.*]

To remove hanging ball, loosen set screw on hanging ball and remove pin and clip. 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. [*Refer to* **diagram 1**.]

Remove vice from safety cable by loosening the screw and nut on the vice. [*Refer to* **diagram 2**.]

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.
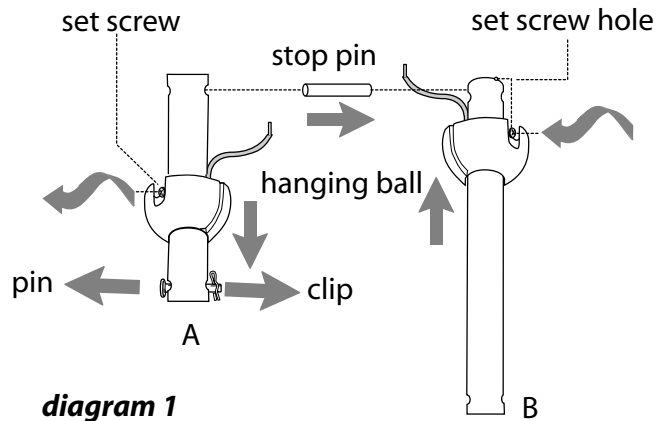
Loosen yoke set screws and nut at top of motor housing. Remove pin and clip from downrod (if you have not already done so). Slide downrod through canopy and yoke cover.

Thread safety cable and electrical wires through downrod and pull extra wire slack from the upper end of the downrod. [*Refer to* **diagram 3**.]
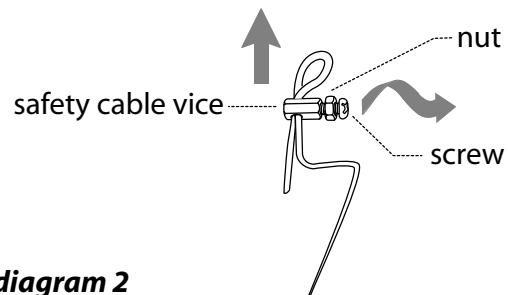
Place downrod into the motor housing yoke and re-insert pin and clip that were previously removed. Tighten yoke set screws and nut securely. [*Refer to* **diagram 3**.] Lower yoke cover to motor housing.

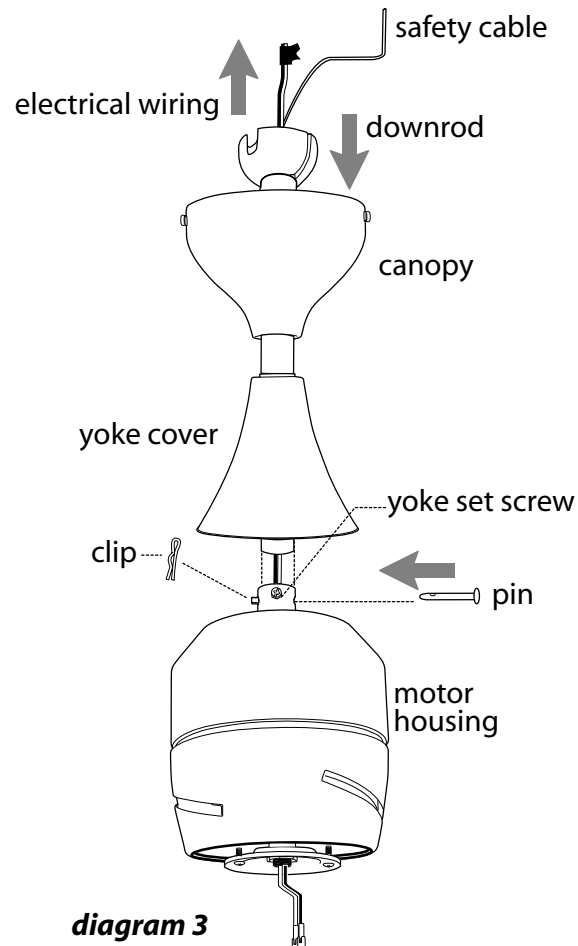**["Fan Assembly" continued on next page.]**

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.*

set screw · stop pin · set screw hole

hanging ball

pin · clip

A

diagram 1 · B

safety cable vice · nut · screw

diagram 2

safety cable

electrical wiring · downrod

canopy

yoke cover

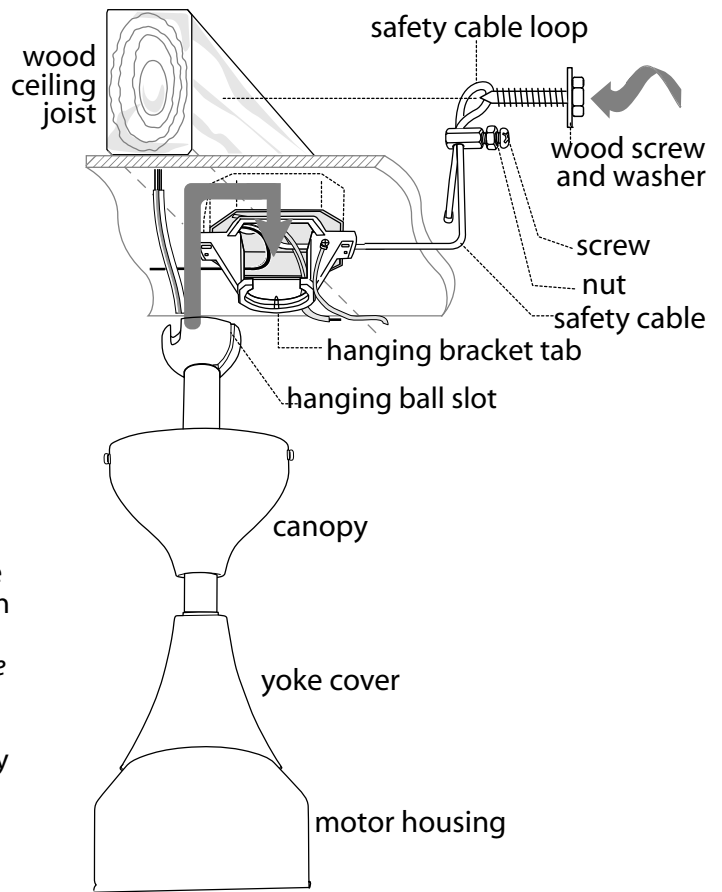yoke set screw

clip · pin

motor housing

diagram 3

5. Fan Assembly. (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.

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.

Replace vice on safety cable and adjust safety cable length by loosening screw and nut on the safety cable vice and pulling on the cable. Adjust slack in cable to a hands length and secure vice by tightening screw and nut securely. [**Refer to drawing at right.**] The loop at the end of the safety cable should just fit over the threads on the wood screw. *Test safety cable by pulling on loose end with pliers. If the safety cable slips, the screw and nut on the vice must be set tighter.*

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. Extra cable slack can be left in ceiling area.

wood ceiling joist
safety cable loop
wood screw and washer
screw
nut
safety cable
hanging bracket tab
hanging ball slot
canopy
yoke cover
motor housing

6. Wiring.

CAUTION: *Be sure outlet box is properly grounded and 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 in the diagram to the right, please use a qualified electrician.
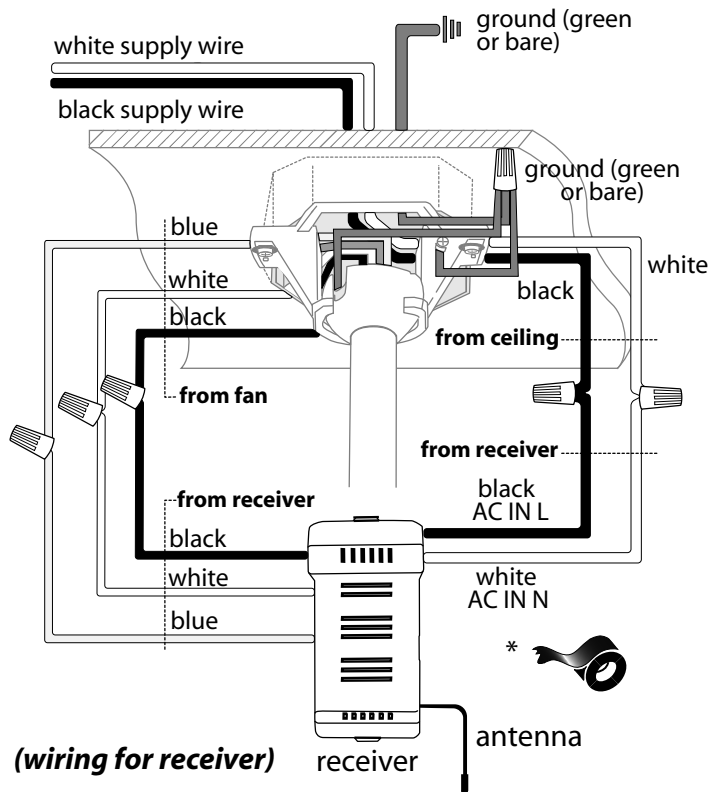
When downrod is secured in place on the hanging bracket, wire the **RECEIVER** with wire connectors provided as shown in *diagram at right.*
Tip: While you are wiring, keep in mind that wires must not obstruct receiver from sliding into hanging bracket.

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

Gently insert receiver (flat side up) into hanging bracket and carefully push wires and taped wire connectors into outlet box. Let antenna rest *outside* of hanging bracket.

["Wiring" continued on next page.]

white supply wire
black supply wire
ground (green or bare)
ground (green or bare)
blue
white
black
white
black
from ceiling
from fan
from receiver
from receiver
black
AC IN L
black
white
blue
white
AC IN N
*
antenna
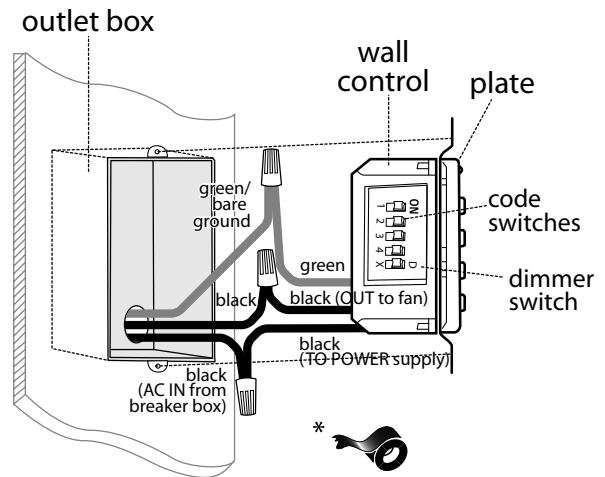**(wiring for receiver)**
receiver

6. Wiring. (cont.)

IN ORDER TO WIRE WALL CONTROL, remove existing wall switch. Wire the **WALL CONTROL** with wire connectors provided as shown in *diagram at right.*

* Wrap each wire connector separately with electrical tape as an extra safety measure. Gently push wires and taped wire connectors into outlet box.

Use a ballpoint pen or a small screwdriver to set the code switches 1 through 4 on the wall control. Factory setting is pre-set and not recommended for use. *Write down number sequence for use in Section 10.*

Locate the dimmer switch (labeled "D" and "X") which is set to the right of the code switches. Set dimmer switch to ON (D). [**Note**: Set the dimmer switch to OFF (X) position if using dimming capability is not desired.]

Attach wall control to outlet box and secure with screws from original wall switch. Attach front plate to wall control using 2 screws provided in the wall control.

outlet box
wall control
plate
green/bare ground
green
code switches
dimmer switch
black
black (OUT to fan)
black (TO POWER supply)
black (AC IN from breaker box)

(wiring for wall control)

7. Canopy Assembly.

Raise canopy to hanging bracket and align slotted holes in canopy with loosened screws in hanging bracket. Twist canopy to lock. Re-insert screws (with lock washers) that were previously removed (page 3, Section 4) and secure all screws with Phillips screwdriver.

*Remember that antenna for remote control receiver must rest *outside* of hanging bracket.

antenna
hanging bracket
slotted hole
canopy
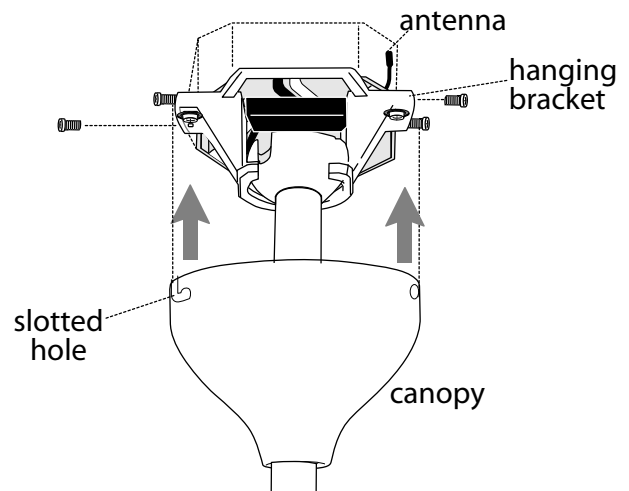
8. Blade Assembly.

Loosen the screws in the 2 slotted holes inside the light kit fitter (located on the underside of the motor housing) and remove the other screw. Twist light kit fitter and pull down on carefully to remove. [**Note**: Make sure to check that molex plugs are disconnected *BEFORE* removing the light kit fitter from the motor housing. Molex plugs may be disconnected by simply pulling them apart.]

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

Locate 9 blade attachment screws and washers in hardware pack. Slide blade through one of the narrow, rectangular openings on motor housing, aligning holes in blade with holes in blade arm (**located on the underside of the motor housing**)--*refer to drawing at right*. Insert 3 blade attachment screws (along with washers) and then tighten screws securely with a Phillips screwdriver. Repeat procedure for each remaining blade.

Note: Tighten blade arm screws twice a year.

motor housing

blade

fitter plate

molex connections

blade attachment screws and washers

molex connections
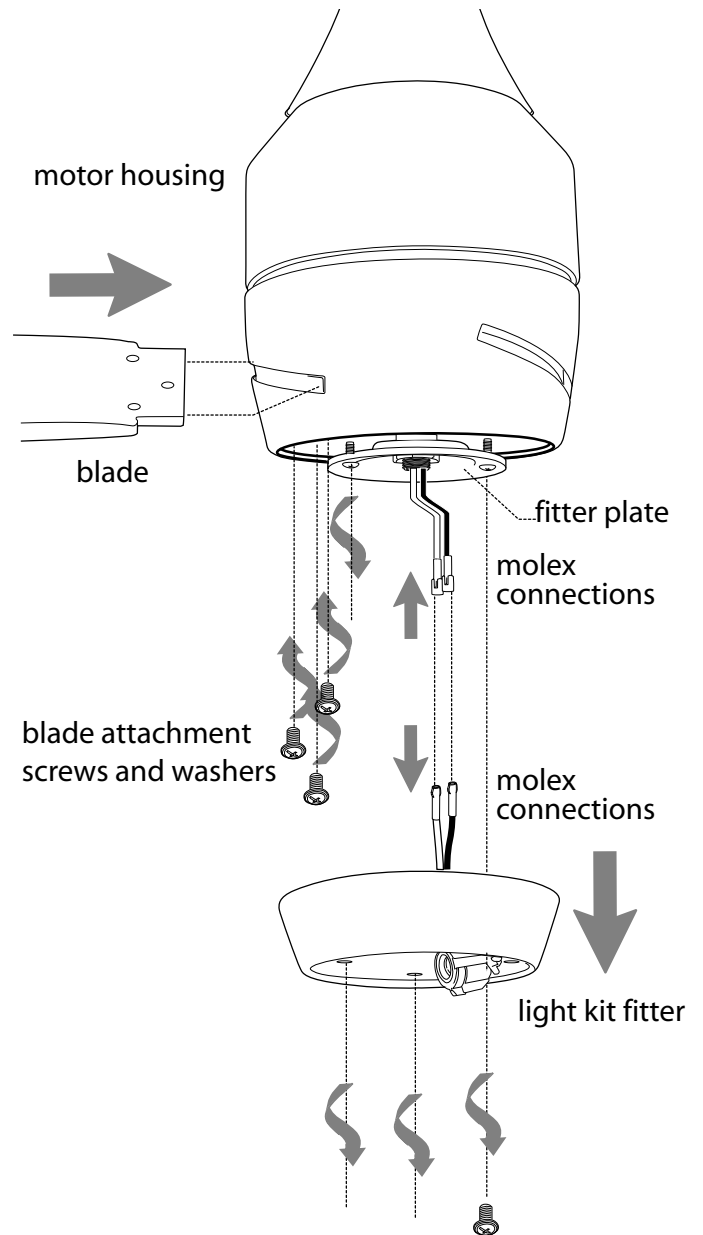
light kit fitter

9. Light Kit Assembly.

Re-attach molex plugs by connecting **BLACK** wire from motor housing to **BLACK** wire from light kit fitter and **WHITE** wire from motor housing to **WHITE** wire from light kit fitter. Be sure that molex connections snap together completely. Align slotted holes in the light kit fitter with loosened screws in fitter plate. Twist light kit fitter to lock. Re-insert screw that was previously removed from light kit fitter. Tighten all screws to secure light kit fitter.

9. Light Kit Assembly. (cont.)

Install the 75-watt mini can halogen bulb, type JD E11, provided.

Tip: *Do not touch glass portion of bulb with fingers or hands. Oil from skin can cause bulb to overheat and go out prematurely. Use cardboard box or foam wrapping bulb was packed with to layer around glass portion of bulb.*

Locate grooves on glass shade and align with nodules on inside of light kit fitter. Push up gently on glass shade. Turn glass shade in a **clockwise** direction until it slides into place.

IMPORTANT: The glass shade must be removed in order to replace the bulb. When you need to replace the bulb, please allow bulb and glass shade to cool down before touching. Use one 75-watt *max.* halogen bulb, type JD E11, to replace the bulb, keeping in mind not to touch the bulb itself as described above (see "**Tip**").

motor housing

bulb

glass shade
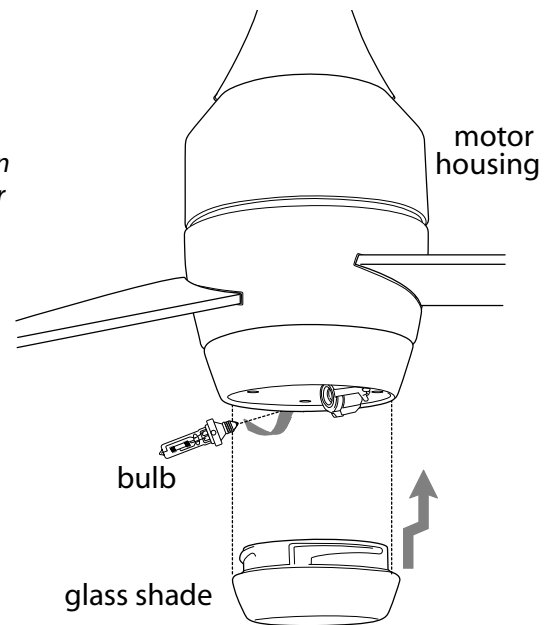
10. Automated Learning Process./Activating Code.

CAUTION: *The remote control transmitter can be programmed to multiple receivers or fans. If this is not desired, turn wall switch off to any other programmable receiver or fan.*

Remove battery cover on back side of remote control transmitter.

Use a ballpoint pen or a small screwdriver to set the code switches 1 through 4 for the transmitter. *Use the same number sequence used when wiring the wall control in Section 6.*

Locate dimmer switch (labeled "D" and an "X") which is set to the right of the code switches. Set dimmer switch to ON (D) position. **Note**: Set dimmer switch to OFF (X) position if dimming compatibility is not desired.]

Install one 9-volt battery (sold separately) in transmitter. **Note**: Leave battery connected but **outside** of battery compartment until learning process is complete.

Restore electrical power and then set slider switch on wall control to the ON position. Within 30 seconds of turning on the wall control, press the "OFF" button, located on the front of the transmitter, for 5 seconds. Test the fan functions to confirm the learning process is complete--see Section 13.

Place battery in battery compartment and then re-attach battery cover on transmitter.

TRANSMITTER (*back*)

code switches

dimmer switch

9V

battery cover
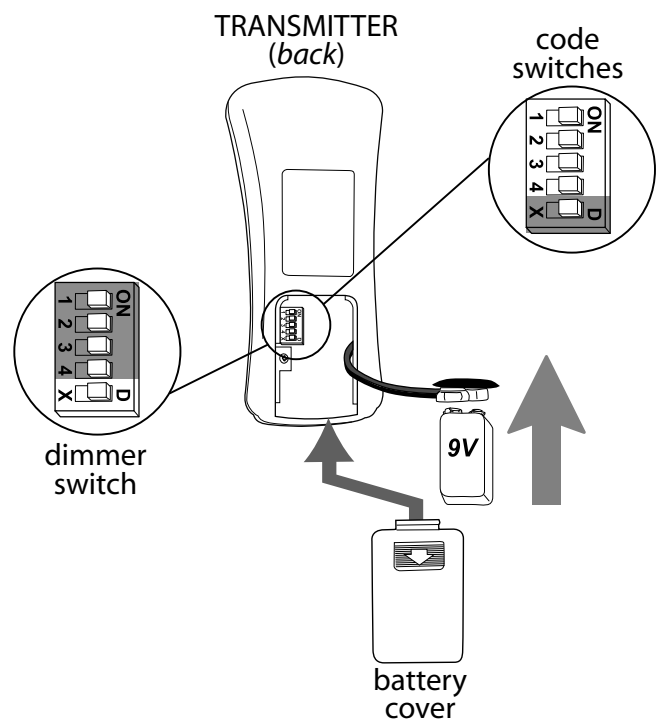
11. Wall Control Operation.

ON/OFF slider switch - turns *wall control* ON or OFF
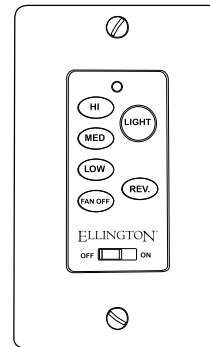**HI** button - turns *fan* to HIGH speed
MED button - turns *fan* to MEDIUM speed
LOW button - turns *fan* to LOW speed
FAN OFF button - turns *fan* OFF
LIGHT button - turns *light* ON/OFF when pressed once; dims *light* when pressed and held down
REV button - used to REVERSE blade direction (fan must be set on *low* **before** reversing blade direction)

12. Remote Control Operation.

HI button - turns *fan* to HIGH speed
MED button - turns *fan* to MEDIUM speed
LOW button - turns *fan* to LOW speed
OFF button - turns *fan* OFF REV button - used to REVERSE blade direction (fan must be set on *low* **before** reversing blade direction)

♀ button - pushing ♀ button turns light ON/OFF; pressing ♀ button and holding it down for more than 0.7 seconds converts it into a dimmer.
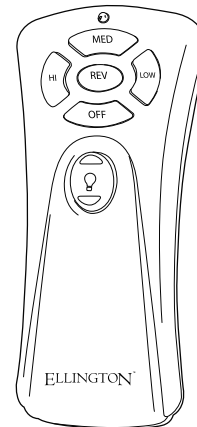
13. Testing Your Fan.

It is recommended that you test fan before finalizing installation. Restore power from circuit box and light switch (if applicable). Locate ON/OFF slider switch on wall control and set to the ON position. Test light and dimmer function and then test fan speeds. Next, locate remote control. Start with the light OFF and test the light ON/OFF function by pressing on the ☉ button. Test the dimmer function by pressing the ☉ button and holding it down for 1 second. Test fan speeds with the different fan speed buttons. If the remote control operates all of the functions of the fan, battery has been installed correctly. If the wall and/or remote controls do (does) not operate all of the fan functions, refer to "Troubleshooting" section to solve any issues before contacting Customer Service.

Fan must be set on LOW *before* setting the fan in reverse. Reverse blade rotation to recirculate air depending on the season.

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 receiver is wired properly.
3. Check to be sure fan is wired properly.
4. Check to be sure code switches are set properly in remote control transmitter and wall control.
5. Learning process between fan, remote control transmitter and wall control may not have been successful and code was not activated. Turn off power and repeat instructions in next to last paragraph of Section 10 (page 8).
6. Check that red light on remote control transmitter turns on when a button is pressed indicating that the battery is good.

Problem: Light kit not lighting.
Solutions:
1. Check wall switch to fan.
2. Check that bulb is installed correctly.
3. Check that wires in canopy are wired properly.
4. Check to be sure code switches are set properly in remote control transmitter and receiver and wall control.
5. Check to be sure that bulb totals no more than 190W. [Note: Lamping light kit with bulb that totals more than 190W will cause the wattage limiting device to interrupt the flow of electricity to the light kit.]

Problem: Fan operates but light fails.
Solutions:
1. Check that bulb is installed correctly.
2. Check that wires in canopy are wired properly.
3. Replace defective bulb with same type of bulb.
4. Check to be sure that bulb totals no more than 190W. [Note: Lamping light kit with bulb that totals more than 190W will cause the wattage limiting device to interrupt the flow of electricity to the light kit.]

Problem: Fan and light fail to operate with remote control.
Solutions:
1. Check battery power to remote control.
2. Check to be sure code switches are set properly in remote control transmitter and receiver and wall control.

Problem: Fan wobbles.
Solutions:
1. Use the balancing kit in one of the hardware packs. *If no blade balancing kit is provided, please call Customer Support, 1-800-527-1292, to request one.*
2. Check to be 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.

Parts Replacement.

For parts and information, please refer to "Parts Inventory" on page 2.
Ellington Customer Support:
1-800-527-1292
www.ellingtonfans.com

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