

READ AND SAVE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

Model: AC-31244

Model :AC-31152

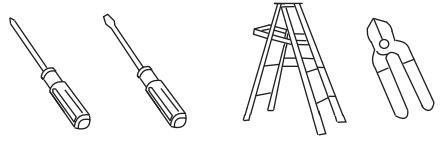


**Kendal Lighting (BC) Inc.
#110, 6780 Dennett Place
Delta, BC V4G 1N4
Canada
Tel: (604) 952-5510
Fax: (604) 952-5513**

**CETL LISTED MODEL: KA001-44;KA001-52
Weight of Fan: 4.50 Kgs**

1. TOOLS AND MATERIALS REQUIRED

- Philips screw driver
- Blade screw driver
- Step ladder
- Wire cutters



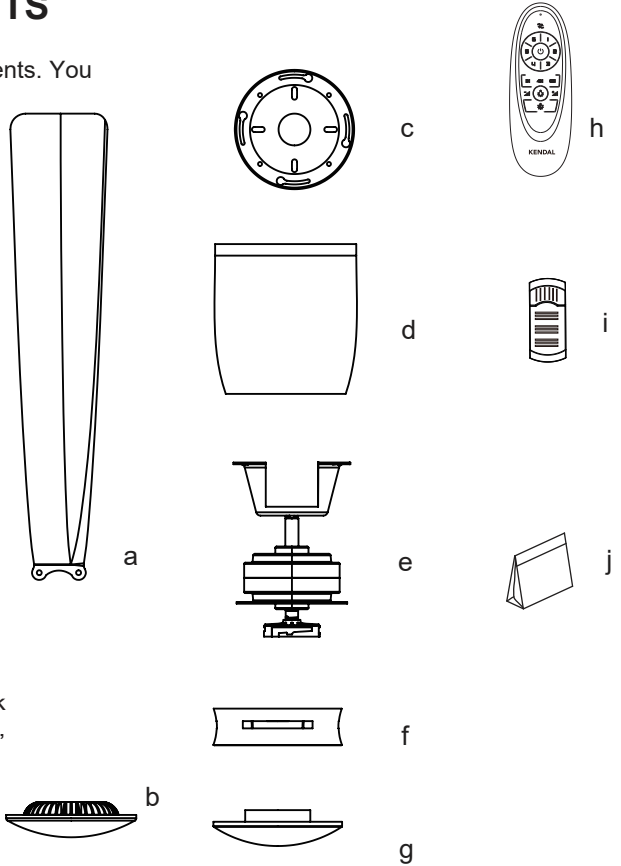
2. PACKAGE CONTENTS

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

- a. Blade set (3)
- b. LED Light Kit
- c. Mounting Plate
- d. Housing
- e. Fan motor assembly
- f. Center Band
- g. Bottom Cap
- h. Transmitter assembly
- i. Receiver
- j. Package hardware
Centerband to motor x 4
Blade to Motor Screws x 7

Mounting Screws(Philps Head
Screws#3-16 x 9
long screws)x 3

Bracket Mounting Hardware
(wood screws x 2, screws, lock
washers x 2, star washers x 2 ,
flat washers x 2)



3. 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:** To reduce the risk of shock, this fan must be installed with an isolating wall control/switch.
4. **WARNING:** To reduce the risk of fire, electric shock, or other personal injury, mount fan only on an outlet box or supporting system marked acceptable for fan support of 35 lbs (15.9 kg) or less and use 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.
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. For fans with manual reverse, 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 kit 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.

4. MOUNTING OPTIONS

If there isn't an existing CUL 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: You may need a longer downrod to maintain proper blade clearance when installing on a steep, sloped ceiling. (Fig. 3)

To hang your fan where there is an existing fixture but no ceiling joist, you may need an installation hanger bar as shown in Figure 4.

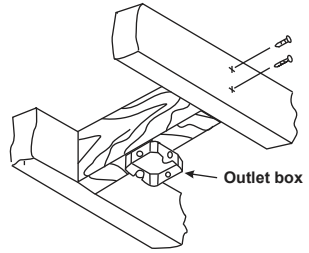


Figure 1

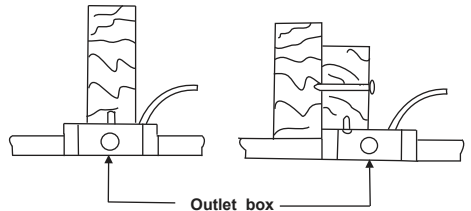


Figure 2

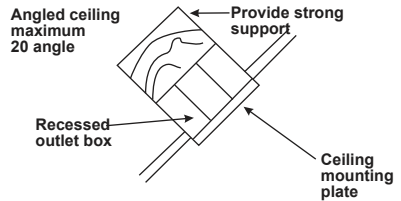


Figure 3

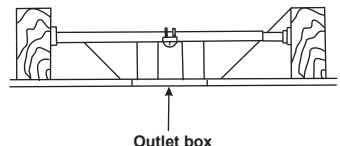


Figure 4

5. HANGING THE FAN

REMEMBER to turn off the power. Follow the steps below to hang your fan properly:

Step 1. Pass the 120-volt supply wire through the center hole in the ceiling Mounting Plate as Fig 5.

Step 2. Secure the Mounting Plate to the ceiling outlet box with the screws and washers provided

Step 3. INSTALLATION OF SAFETY CABLE SUPPORT

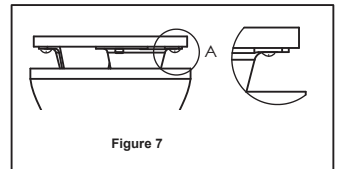
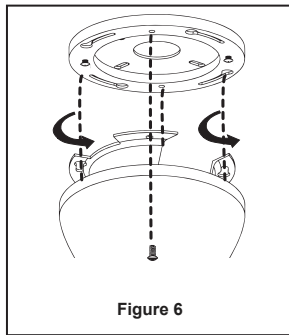
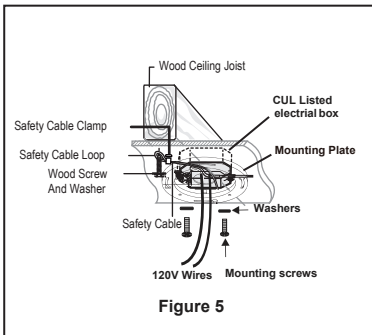
Attach the wood screw and the flat washer to the ceiling joist as shown (do not fully tighten), Slide the cable clamp onto the safety cable from the fan, Loop the safety cable around the wood screw that was just attached to ceiling joist, Feed the end of the cable into the clamp and pull as much cable through as possible, Firmly tighten screws in the clamp, Cut off excess cable

Step 4, Locate motor / housing assembly.

Attach the motor assembly to the mounting plate by rotating the two allen head screws in the mounting plate into key slots in motor support. (Fig. 6)

Secure the motor assembly to the mounting plate by using the remaining 2 philips head screws, through the motor support bracket into the mounting plate. (Fig. 6)

NOTE: The housing will need to be tilted / maneuvered to the side to access the Allen Head screws efficiently. Fully tighten all four allen head screws to fully secure motor assembly to the mounting plate. (Fig.7)



6. MAKE THE ELECTRIC CONNECTIONS

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

Step 1. (Fig. 9) Insert the receiver into the hanger bracket with the flat side of the receiver facing the ceiling.

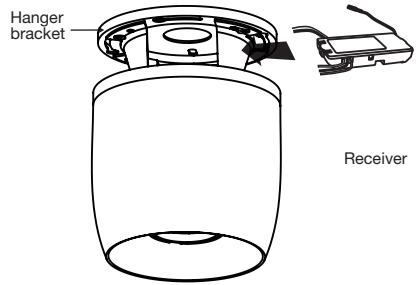


Figure 9

Step 2. (Fig. 10) Motor to Receiver Electrical Connections: Connect the Red wire from the fan to Red wire from the receiver. Connect the Yellow wire from the fan to the Yellow wire from the receiver. Connect the Gray wire from the fan to the Gray wire from the receiver. Connect the Blue wire from the fan to the Blue wire marked "For Light" from the receiver. Connect the White wire from the fan to the White wire marked "For Light" from the receiver. Secure wire connections with the plastic wire nuts provided.

Step 3. (Fig. 10) Receiver to House Supply Wires Electrical Connections: Connect the Black (hot) wire from the ceiling to the black wire marked "AC in L" from the receiver. Connect the white (neutral) wire from the ceiling to the white wire marked "AC in N" from the Receiver. Secure the wire connections with the plastic wire nuts provided.

Step 4. (Figure 10) If your outlet box has a ground wire (green or bare copper) connect it to the fan ground wires and the receiver ground wire; otherwise connect the hanging bracket ground wire to the fan and the receiver ground wire. Secure the wire connection with a plastic nut provided. After connecting the wires, spread them apart so that the green and white wires are on one side of the outlet box and other wires are on the other side. Carefully tuck the wire connections up into the outlet box.

Note: Fan must be installed at a maximum distance of 20 feet from the transmitting unit for proper signal transmission between the transmitting unit and the fan's receiving unit.

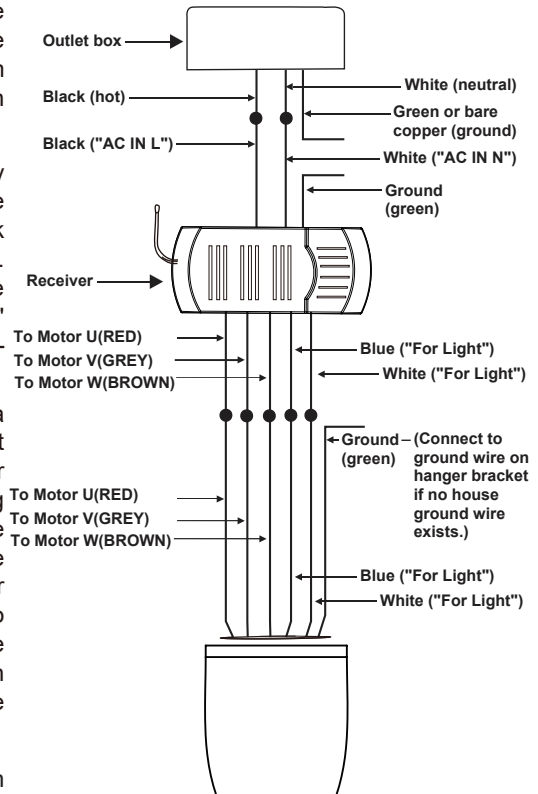


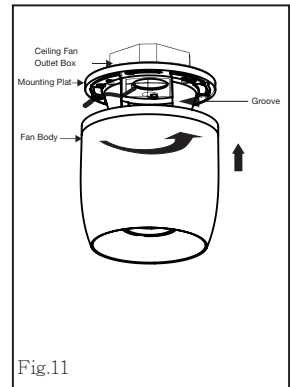
Figure 10

7. FINISHING THE INSTALLATION

Tuck connections neatly into ceiling outlet box.

Slide the decorative housing up to the mounting plate and secure by twisting the 4 screws into the 4 keyslot holes of the mounting plate. (Fig.11)

NOTE: Adjust the canopy screws as necessary until the canopy and trim ring are snug.



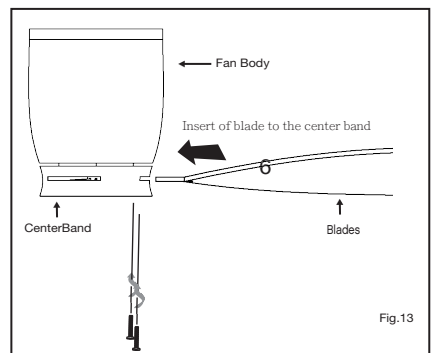
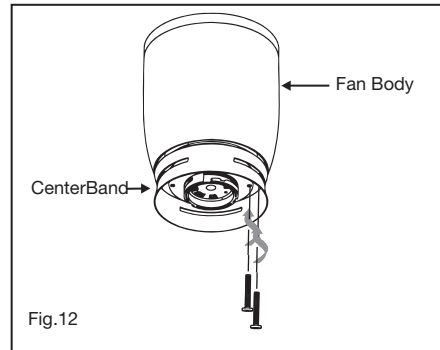
8. ATTACHING THE FAN BLADES

Locate the 3 center band attachment screw, show in Fig.12. Insert blades to the center band first, Locate 6 blades attachment screws, Slide one blade onto the motor as show in Fig.13, Tighten all screws securely with provided allen wrench

NOTE: Remove any rubber supports that are

Fasten blade to motor with provided screws, lock washers and flat washers. Repeat procedure for remaining blades. Make sure screws are TIGHT!

NOTE: Cordless power screwdrivers are NOT recommended, as they usually strip the heads of the screws and usually will not fully compress the lock washers on the motor screws. Use a large flat blade screwdriver for final tightening to fully compress the washers. This will help ensure proper alignment of the blades and noise-free, wobble-free running.



9. ATTACHING THE LED LIGHT KIT

NOTE: Before starting installation, disconnect the power by turning off the circuit breaker or removing the fuse at fuse box. Turning power off using the fan switch is not sufficient to prevent electric shock.

Step 1. While holding the LED light kit under your fan, firmly snap the wire connection plugs together.

Step 2. Attach the LED light kit to the switch box by twisting right tightly.

Note: This is an integrated LED light kit assembly and should not be disassembled to prevent electric shock.

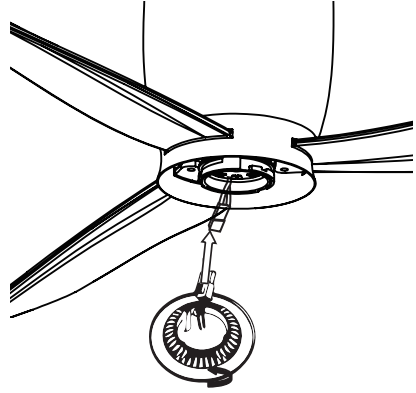


Fig.14

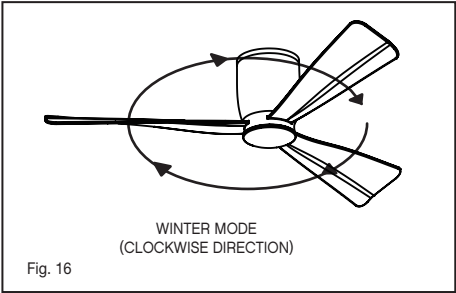
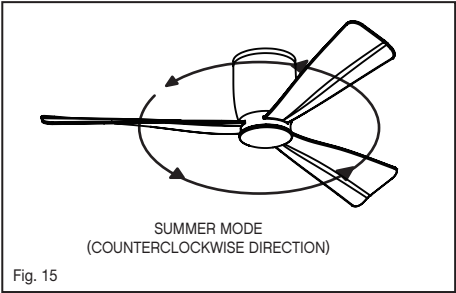
10. Summer Mode and Winter Mode Operation

Summer Mode (forward):

A DOWNWARD airflow creates a cooling effect as shown in Figure 15. This allows you to set your air conditioner on a warmer setting without affecting your comfort.

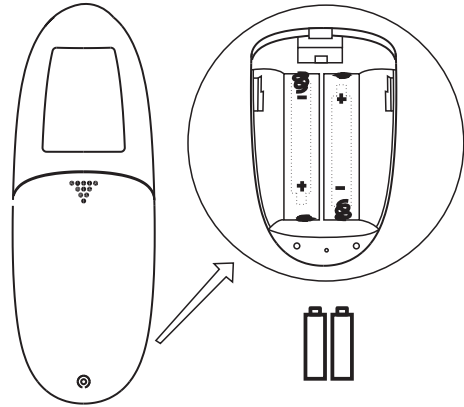
Winter Mode (Reverse):

An UPWARD airflow moves warmer air off the ceiling area as shown in Figure 16. This allows you to set your heating unit on a cooler setting without affecting your comfort.





11. INSTALLING THE BATTERY

Remove the back cover on the transmitter and install a 12V battery included with the remote control. (Fig. 17)



12. LEARNING PROCESS

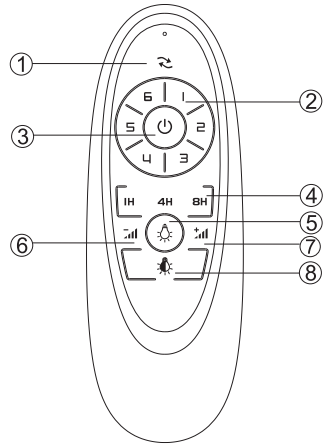
NOTE: After turning the AC power back on, do not press any other button on the remote control before pressing the  button. Doing so will cause the learning procedure to fail and the power to the fan will have to be turned off again to start over.

Turn main power to fan back on and within 30 seconds press and hold the  button on the remote for 5 seconds to sync the transmitter to the fan.

Once the fan has detected the remote, the light on the fan will blink twice to indicate your fan is now ready to use.

Fans without light-kits have no indicator but will be ready to use after holding the button for the 5 seconds.

Figure 17



12a. ADDING EXTRA REMOTE (OPTIONAL)

Turn main power to the fan off and repeat learning process above using the new remote.

Figure 18

13. INSTALLING THE TRANSMITTER HOLDER

Attach the remote control holder with the two remote control holder mounting screws. (Fig.19)

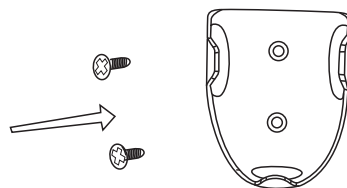









Figure 19

14. OPERATING YOUR TRANSMITTER

A. Fan  button. Press and release the  button to turn the fan on or off. The fan memory function will store the current setting for the next time.

B. 1,2,3,4,5,6 buttons:
 These six buttons are used to set the fan speed as follows:
 1=low speed 2=medium low speed
 3=medium speed 4=medium high speed
 5=high speed 6=extra high speed

C. Light functions
 Press and release  button one time to turn the light on.
 Press and release  button one time to turn the light off.
 Press  to increase the desired light level.
 Press  to decrease the desired light level.

D. Fan reverse button 
 Warm weather - (Forward) A downward airflow creates a cooling effect as shown in Fig. 20. This allows you to set your air conditioner on a warmer setting without affecting your comfort.

Cool weather - (Reverse) An upward airflow moves warm air off the ceiling area as shown in Fig. 21. This allows you to set your heating unit on a cooler setting without affecting your comfort.

NOTE: To operate the reverse function on this fan, press the reverse button while the fan is running at any speed.

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

E. Timmer functions
 Press 1H button one time to fun the fan 1 hours
 Press 4H button one time to fun the fan 4 hours
 Press 8H button one time to fun the fan 8 hours

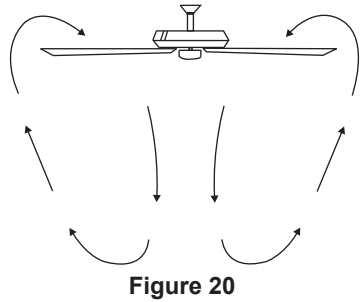
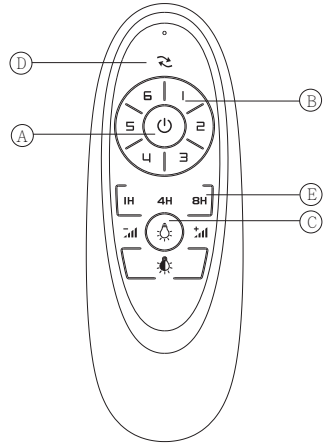


Figure 20

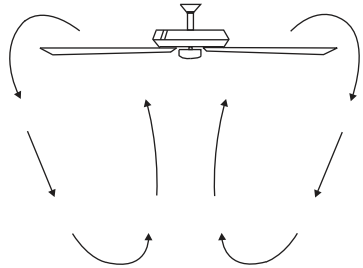


Figure 21

15. CARE OF YOUR FAN

Here are some suggestions to help maintain your fan.

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. (It is not necessary to remove fan from the ceiling).
2. Clean your fan periodically to help maintain its new appearance over the years. Use only a soft brush or lint free cloth to avoid scratching the finish. Plated finishes are sealed with lacquer to minimize discoloration or tarnishing. Do not use water when cleaning, this could damage the motor, wood blades or possibly cause an electrical shock.
3. If your fan is provided with wood veneer blades; you can apply a light coat of furniture polish for additional protection and enhanced beauty. Cover small scratches with a light application of shoe polish.
4. Use a lint free lightly damp cloth or duster to remove dust from the blades.
5. There is no need to oil your fan. The motor has permanently lubricated bearings.
6. If your fan is provided with glass shades, clean with lukewarm soapy water and a soft cloth or sponge.

DO NOT IMMERSE GLASS SHADES IN HOT WATER. DO NOT PUT GLASS SHADES INTO AN AUTOMATIC DISHWASHER.

WARNING: Make sure the power is off at the electrical panel box before you attempt any repairs. Refer to the section, "Making Electrical Connections".

16. TROUBLESHOOTING

Problem	Solution
Fan will not start.	<ol style="list-style-type: none">1. Check circuit fuses or breakers.2. Check line wire connections to the fan and switch wire connections in the switch housing. CAUTION: Make sure main power is off.
Fan sounds noisy.	<ol style="list-style-type: none">1. Make sure all motor housing screws are snug.2. Make sure the screws that attach the fan blade bracket to the motor hub is tight.3. Make sure wire nut connections are not rubbing against each other or the interior wall of the switch housing. CAUTION: Make sure main power is off.4. Allow a 24-hour "breaking-in" period. Most noise associated with a new fan disappear during this time.5. If using an optional light kit, make sure the screws securing the glassware are tight. Check that light bulb is also secure.6. Do not connect the fan with wall mounted variable speed control(s).7. Make sure the upper canopy is a short distance from the ceiling. It should not touch the ceiling.
Remote control malfunction.	<ol style="list-style-type: none">1. Do not connect the fan with wall mounted variable speed control(s).2. Re-do learning process.
Fan wobble.	<ol style="list-style-type: none">1. Check that all blade and blade arm screws are secure.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".3. If the blade wobble is still noticeable, interchanging two adjacent (side by side) blades can redistribute the weight and possibly result in smoother operation.

WARNING: TO REDUCE THE RISK OF PERSONAL INJURY, DO NOT BEND THE BLADE ARM WHILE INSTALLING, BALANCING THE BLADES, OR CLEANING THE FAN. DO NOT INSERT FOREIGN OBJECTS BETWEEN ROTATING FAN BLADES.