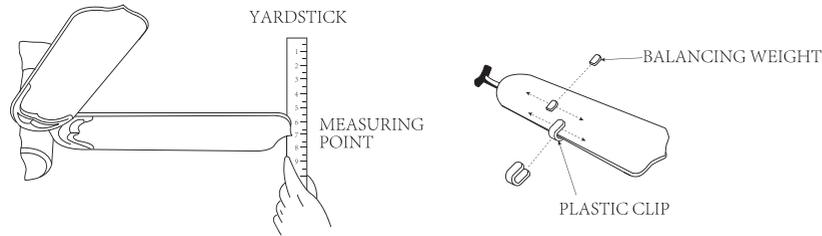


# DYNAMIC BLADE BALANCING KIT



## PREFACE

Your ceiling fan may sometimes have wobbling problems when operating due to irregularity in the blades or the blade holders. Also, improper assembly in the mounting system or crooked bearings may cause some additional problems. This balancing kit can be used to fix wobbling problems.

## DYNAMIC BLADE BALANCING KIT FOR CEILING FANS

1. Make certain that all blades are firmly screwed into the blade holder.
2. Make sure that all blade holders are firmly secured to the motor housing and check that the pitch of blade holders are all the same.
3. By looking up at the fan from below, check and be certain that none of the blade holders are bent and that none of the blades are out of position. A correction can be made by very gently bending the blade holder back into position.
4. Use a yardstick to check the blade tracking. Put the yardstick up against the ceiling vertically and against the outside leading edge of a blade. Note the distance of the edge of blade to the ceiling. Carefully turn the blades slowly by hand to check the remaining blades. If the blade is not in alignment, the blade holder may be gently bent up or down to be in line with the other blades.

After following all the steps and if the wobbling problem is not solved, a dynamic balancing needs to be done by balancing kit. Follow the procedure listed below:

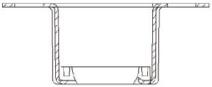
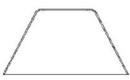
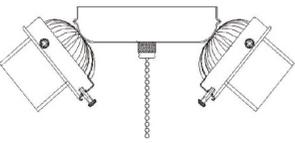
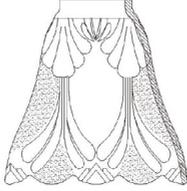
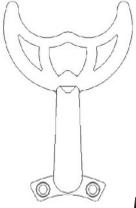
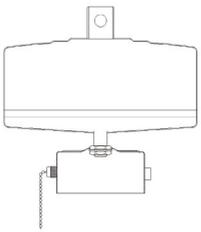
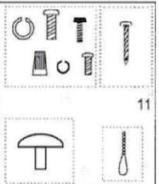
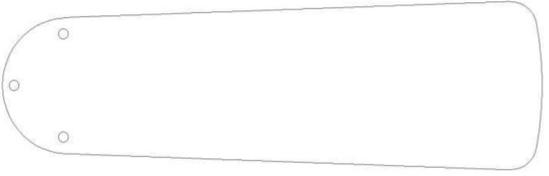
- Turn the fan on and adjust the speed control (usually high speed) setting to the speed which creates the greatest wobble.
- Turn the fan off. Select one blade and place the balance clip on it, halfway between the blade holder and the blade tip on the rear edge of the blade.
- Turn the fan on. Watch to see if the wobble is improved or worsened. Turn the fan off again and move the clip to another blade and test again. Repeat this process with all blades and then note the blade which is the most improved.
- Move the clip back to the blade which showed the most improvement. Move the clip inward and outward on this blade and operate the fan to find the position where the clip gives the most improvement.
- Next remove the clip and install a balancing weight to the top of the blade along the centerline near the point where the clip was positioned. Use a sharp knife or razor to separate the weights.

Caution: Stay clear of the blades. If the clip, for any reason, is not secure, injury could result .

## Ceiling Fan



# Package list

<p>A bracket</p>  <p>1PCS</p>	<p>B canopy</p>  <p>1PCS</p>	<p>C downrod</p>  <p>1PCS</p>
<p>D yoke cover</p>  <p>1PCS</p>	<p>E light kit</p>  <p>1PCS</p>	<p>F glass</p>  <p>3PCS</p>
<p>G blade arms</p>  <p>5PCS</p>	<p>H motor</p>  <p>1PCS</p>	
<p>I screw package</p>  <p>1SET</p>	<p>J blade</p>  <p>5PCS</p>	

PROBLEM	SUGGESTION
1. Fan will not start	<p>Caution: Turn off power at main circuit breaker before checking!</p> <ul style="list-style-type: none"> <li>a) Check fuses and circuit breakers.</li> <li>b) Check wire connections to fan.</li> <li>c) Check wiring connection in lower canopy.</li> <li>d) Check voltage at fan connection.</li> </ul>
2. Fan too fast / slow	a) Check voltage at fan connection.
3. Fan makes noise	<ul style="list-style-type: none"> <li>a) Check motor case to make sure all visible screws are snug.</li> <li>b) Check to make sure that all blade bracket screws are tight.</li> <li>c) Check for labels or wire nuts that could be rubbing.</li> <li>d) All ceiling fans may have a slight motor noise known as the "60 cycle hum" when used with solid state, infinite, speed controls. Especially on lower speeds. This Hum will not affect the fan performance.</li> <li>e) Allow a 1-week break- than a), b), c) or d) above.</li> </ul>
4. Fan wobbles	<ul style="list-style-type: none"> <li>a) Check that all blade brackets are screwed firmly to motor case.</li> <li>b) Check distance from tip of blades to ceiling. If blades get bent during installation, you must re-adjust them so that all blades travel on same plane. Gently bend down until all distances are the same.</li> <li>c) Make sure upper canopy is 1/8" from ceiling.</li> <li>d) Make sure that hanging bracket is secured tightly to ceiling.</li> <li>e) Run fan without blades if motor does not wobble, then motor is not defective but the blades maybe bent.</li> </ul>
5. Fan control	a) Make sure to check voltage at speed control if installed, to ensure that has been properly wired, and that control is not defective or damaged during installation or connection to power source.

11. For light kit installation, make sure electrical power is turned off. Take the integral light assembly from styrofoam and connect the fan receptacle with the light kit receptacle which has a tag saying "FOR LIGHT KIT CONNECTION". Attach the integral light kit to switch housing and secure tightly by 3 screws (See Fig. 6).

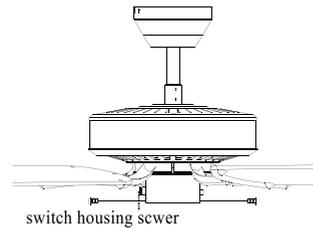


Fig 6

12.1. Locate the single blue wire and single white wire from the switch housing. marked "FOR LIGHT"

12.2. Connect the blue wire from the switch housing to the black wire from the light kit.

12.3. Connect the white wire from the switch box to the white wire from the light kit. as shown in fig 7

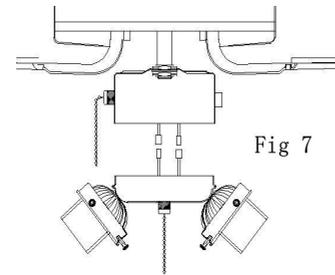


Fig 7

13.1. Carefully push all wires back into switch housing

13.2. Use the three screws on the light kit to attach the light kit to the switch housing. Be sure to tighten all screws

13.3. Carefully insert the glass into the protrusion on the end of the light, as shown in fig 8

13.4. Use three screws provided with fan to attach the glass shade to the light kit.

Tighten screws just until they are firm against the glass. DO NOT overtighten screws.

13.5. Repeat for each glass.

13.6. Install a maximum of 40 watt light bulb (not included) into each socket.

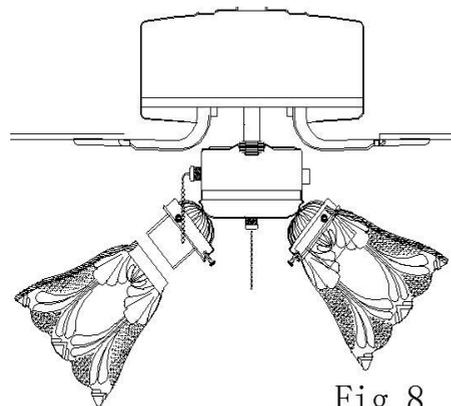


Fig 8

14. Rotate electrical power and check the three speed switch and reverse switch for proper function. In the event of a slight wobble, turn the fan off and check screws on blade and blade holders to see that they are tightened securely. If wobble persists, the amount of movement may be reduced by changing the position of fan blades (Switch adjacent blades one pair at a time).

### SAFETY PRECAUTIONS:

1. Before you begin installing the fan, disconnect the power by removing fuses or turning off circuit breakers.
2. **CAUTION!** Read all instructions and safety information before installing your new fan. Review the accompanying assemble diagrams.
3. Make sure that all electrical connections comply with local codes, ordinances or National Electrical Codes. Hire a qualified electrician or consult a do-it-yourself wiring handbook if you are unfamiliar with installing electrical wiring.
4. Make sure the installation site you choose allows the fan blades to rotate without any obstructions.
5. If you are mounting the fan on a ceiling outlet box; (not included) use a metal octagonal outlet box. Secure the box directly to the building structure. The outlet box and its support must be able to support the moving weight of the fan (at least 35lbs). Do not use a plastic outlet box.
6. After you install the fan, make sure that the safety cable and all connections are secure to prevent the fan from falling.
7. **WARNING:** To reduce the risk of fire or electrical shock, do not use this fan with any solid-state speed control device.

**WARNING:** To reduce the risk of personal injury, do not bend the brackets when installing the brackets, balancing the blades, or cleaning the fan. Do not insert foreign objects in between rotating fan blades.

### INSTALLATION:

1. After opening top of carton, remove mounting hardware package from styrofoam inserts. Do not discard fan carton or styrofoam inserts, should this fan be returned to the factory for repairs, it must be shipped in its original packaging to insure proper protection against damage that might exceed the initial cause of return.
2. Carefully check all screws, bolts on fan motor assembly to see that they are secured well.
3. **CAUTION:** Before proceeding, be sure to shut off electricity at main switch or circuit breaker in order to avoid electrical shock.
4. **MOUNT WITH THE LOWEST MOVING PARTS AT LEAST 2.1 METERS OR 7' ABOVE FLOOR.**
5. **MOUNTING BRACKET INSTALLATION:** Secure the mounting bracket to the wooden joist by two #10x3 wood screws and that washers provided with fan (See Fig. 1)

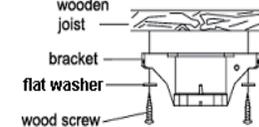


Fig. 1

6. Choose downrod or flushmount installation, whichever best meets your needs. Note that the fan will not displace as much air if installed as a flushmount.

A. **Downrod Installation** –Insert downrod through canopy while feeding lead wires from motor through both canopy and downrod. Slide downrod into coupling. Insert crosspin into aligned holes of coupling and downrod. Next, secure cotter pin into crosspin and tighten set screws on side of coupling. Check screws in ceiling to be sure outlet box is firmly secured to beam or joist. Hang fan assembly on mounting bracket hook through canopy mount hole for handfree electrical connections. To avoid any possible shock or short circuit, SHUT OFF ELECTRICAL POWER to fan (See Fig. 2)

B. **Closemount Installation** –Remove the ground wire together with screw and washer from downrod attach to mounting plate. Remove 4 screws and spring washers from upper motor housing. Attach canopy to upper motor housing with same screws and washers. Flushmount screws must be tightened securely to prevent fan from possibly falling from ceiling. Check screws in ceiling to be sure mounting box is firmly secured to beam or joist. Hang fan on mounting plate hook through canopy mount hole for easy hands-free electrical connection. To avoid any possible shock or short circuit, SHUT OFF ELECTRICAL POWER to fan (See Fig. 3)

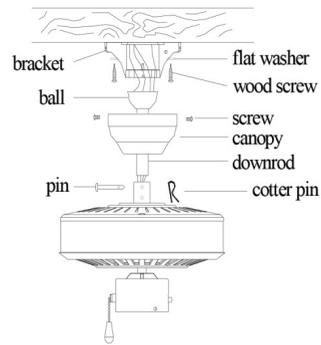


Fig. 3

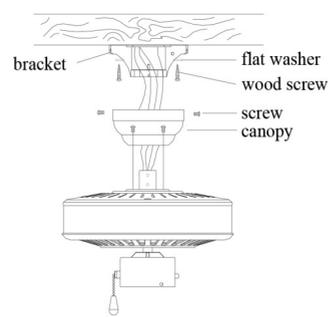


Fig. 3

7. To ensure safety, install the secondary support as follows

- a. Using the wood screws and flat washer provided, pass through close loop of steel cable.
- b. Secure the wood screw to ceiling joist and make sure the steel cable has tightened securely, to avoid any possible shock or short circuit, SHUT OFF ELECTRICAL POWER TO FAN. (See fig.4)
- c. important :the wood screw and its support must be able to fully support the weight at least 100 lbs.

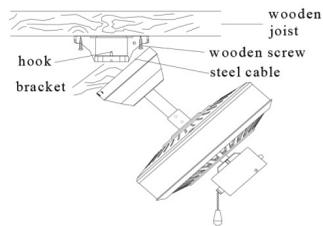
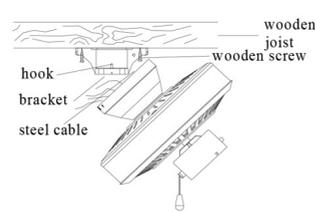


Fig. 4



8. WIRING-IMPORTANT -Be sure outlet box is properly grounded to the ground wire (green or bare )is present.

Make sure all electrical connection is comply with Local codes or ORDINANCES and the national electric code .if you are unfamiliar with electrica wiring, please use a qualified electrician.

When fan is secured in place on the hanging bracket, electrical wiring can be made (See Fig 5) as follow :

- a) Connect **BLACK** and **BLUE** from fan to **BLACK** wire from ceiling with wire nut provided.
- b) Connect **WHITE** wire from fan to **WHITE** wire from ceiling with wire nut provided.
- c) Connect all **GROUND (GREEN)** wires together from fan to **BARE / GREEN** wire from ceiling with wire nut provided.

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

This fan is remote control adaptor (remote control sold separately)

- Next, attach canopy to the mounting plate tightening 4 canopy mount screws and spring washers. **IMPORTANT:** To avoid the possibility of fan falling from ceiling, tighten canopy mount screws securely. If downrod installation is chosen, make sure downrod ball notch is engaged in canopy stabilizing flange so that the ball cannot rotate freely.

0. Attach blade to holder using 3 screws and washers provided per blade. Next, attach assembled blades to bottom of motor assembly with motor screws and spring washers removed in step 2. Double check to make sure all screws are tight.

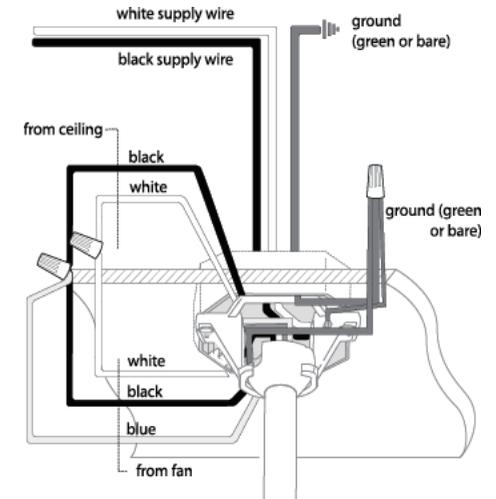


Fig 5

- 3 -

