

DYNAMIC BLADE BALANCING KIT

Elegant

C e i l i n g f a n s

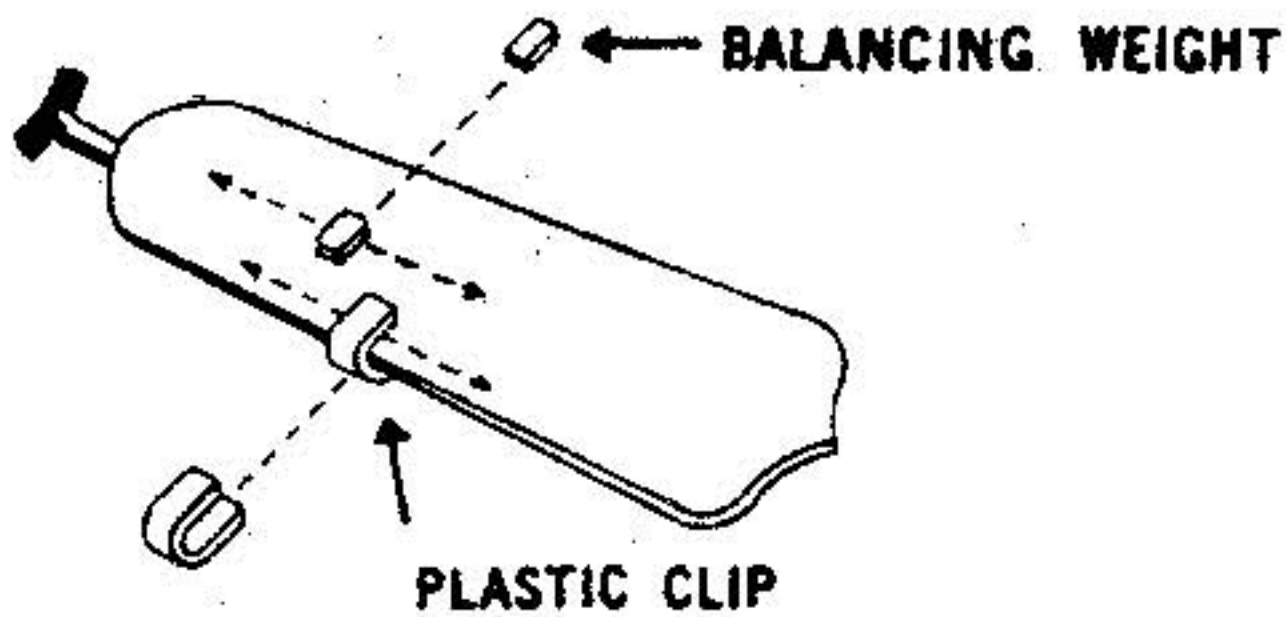
Since 1989

For a variety of reasons, your ceiling fan may wobble when installed. Some wobble, especially at high fan speeds, is often encountered. The following procedures have been developed over a period of years and are designed to reduce the problem of fan wobble.

Step -1- Visual Inspection and "Tracking"

1. Make certain all blades are firmly screwed into their blade holders, or arms, with the fibre washer between the blade and arm, and the metal washer between the screw head and the arm.
2. Make certain the blade holders are tightly fastened to the motor housing and that they appear to all be of the same 'pitch' (all tilted at the the same angle). A small correction is possible by **gently** bending the blade holder back into position.
3. Visually check from below that none of the blade holders are bent out of position. A small correction is possible by **gently** bending the blade holder back into position.
4. Using a household yardstick, 'track' the blades. Place the yardstick vertically against the ceiling, even with the tip of one blade. Note the distance from the ceiling to the blade tip. Leave the yardstick in the same place and manually rotate the blades, measuring the distance from the ceiling to all the blades. All measurements should be the same. If not, the blade holder(s) may be **gently** bent up or down so all blade tips are the same distance from the ceiling.

Turn your fan on and check for wobble. If the above steps do not eliminate the wobble problem, you need to dynamically balance your fan. Proceed to the next step.



Step -2- Dynamic Balancing

Dynamic balancing involves 'counter-weighting'. By using a small weight opposite to the point of wobble, you can in almost all cases eliminate the wobble. The procedure requires much trial and error, and a certain amount of patience to achieve the correct position of the counterweight.

1. Determine which fan speed causes the most wobble. This will almost always be the highest speed.
2. Turn the fan off. Select any one blade and place the balance clip half way between the blade tip and blade holder, on *the rear edge* of the blade.

Caution : *Be careful to stay clear of the blades when running. If the clip is not secure, injury may result from the clip flying off.*

3. Turn the fan on. Observe if the wobble is better or worse. Turn the fan off and move the clip to the next blade. Do the same for all blades and note on which blade the clip improves the wobble the most.
4. Place the clip on the blade which showed the most improvement and by trial and error move the clip in and out along the blade to find the position which most improves the wobble.
5. Once the exact position is determined, place a weight on top of the blade *on its centerline*, directly in line with the clip. Press on the weight firmly to ensure it is firmly attached to the blade. Remove the clip and discard.