Woolen Mill Fan Company®

Fan Installation

For general guide purposes, the example of mounting and installing an Ostrich Fan with a Large Motor in a typical home situation will be used. We would like to suggest that only competent carpenters and certified electricians install your fan.

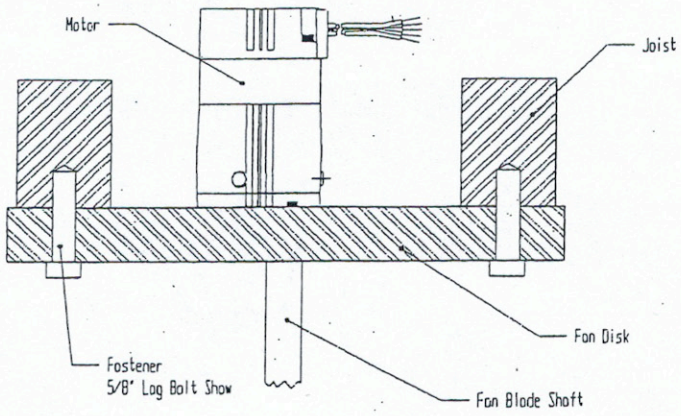
STEP 1: IDENTIFY THE LOCATION OF THE FAN OR FANS.

This should be done by aesthetics of the room, location of joists, and location of power supply. The fan can be mounted to any surface that will support the weight and torque of the fan. The fan motor can be controlled by a typical lighting switch located anywhere in the room.

STEP 2: JOIST LOCATION

Once the location of the fan is decided upon, feasibility of the location must be evaluated. Using a stud finder, locate the joists to which the fan will be mounted. The location of these joists is critical to the next steps of installation. At this point you should refer to the Mounting Diagrams listed detailed in our Architectural Fans catalog. The holes used for mounting the frame to the disk can be used to mount the entire fan securely to the joist. See Figure 1 Option A.

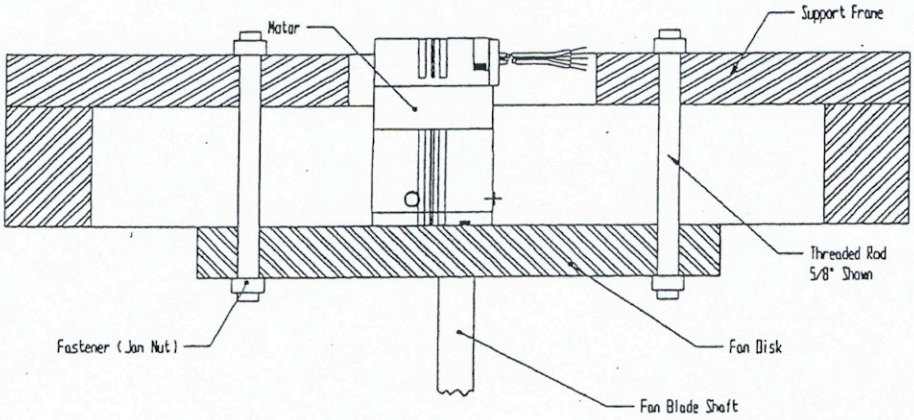
Figure 1 Option A



The location of the holes for mounting the disk to the joist should NOT interfere with the holes being used to secure the disk to the frame of the fan or mounting holes of the motor. If this is the case then other mounting options must be considered.

We would then suggest constructing a support frame between joists to allow for locating the mounting holes for the frame, the mounting holes for the disk to the joist, and mounting holes for the motor. Another possibility would be to drill clearance holes for threaded rod through the Disk and use a commercial ceiling fan bracket with jam nuts on both ends of the threaded rod. See Figure 1 Option B.

Figure 1 Option B



STEP3: PRE-DRILLING OF THE MOUNTING DISK AND JOISTS

The Disk is Mahogany. Mahogany is a very hard wood that will crack and split easily. For this reason we suggest that all holes be pre-drilled prior to assembly. The size of the drilled hole requirements will vary, please refer to the Machinist Handbook for proper sizing of the fastener your will be using.

STEP 5: MOUNTING OF THE DISK

With now having the disk predrilled and motor wired properly, the Disk should be mounted. First attach the motor to the Disk using screws to the proper length for the thickness of the Disk and depth allowed in the casing of the motor. Please refer to Figure 3A or Figure 3B (on page 7). Once the motor is attached to the disk, align the predrilled holes in the disk to the pre-drilled holes in the joist and fasten.

STEP 6: MOUNTING OF THE FAN FRAME

Prior to mounting the Frame to the Disk, slide the coupler to the shaft on the fan. This will be used to connect the drive arm of the motor to the shaft of the fan. Now, align the clearance holes in the Frame to the pre-drilled holes in the Disk and fasten.

STEP 7: COUPLER

The coupler should now be slid up the shaft of the fan and joined with the drive arm of the motor. This should be fastened in place with the setscrews provided.

*All setscrews should be coated with Loc-Tite before assembling.

STEP 8: FAN BLADES

The fan blades will then be installed in the bottom hole locations and fastened with setscrews to any angle.

For optimum air movement we suggest setting each blade at 45-degrees.

If your fan is installed with a Small Motor, then a 20-degree angle is recommended.

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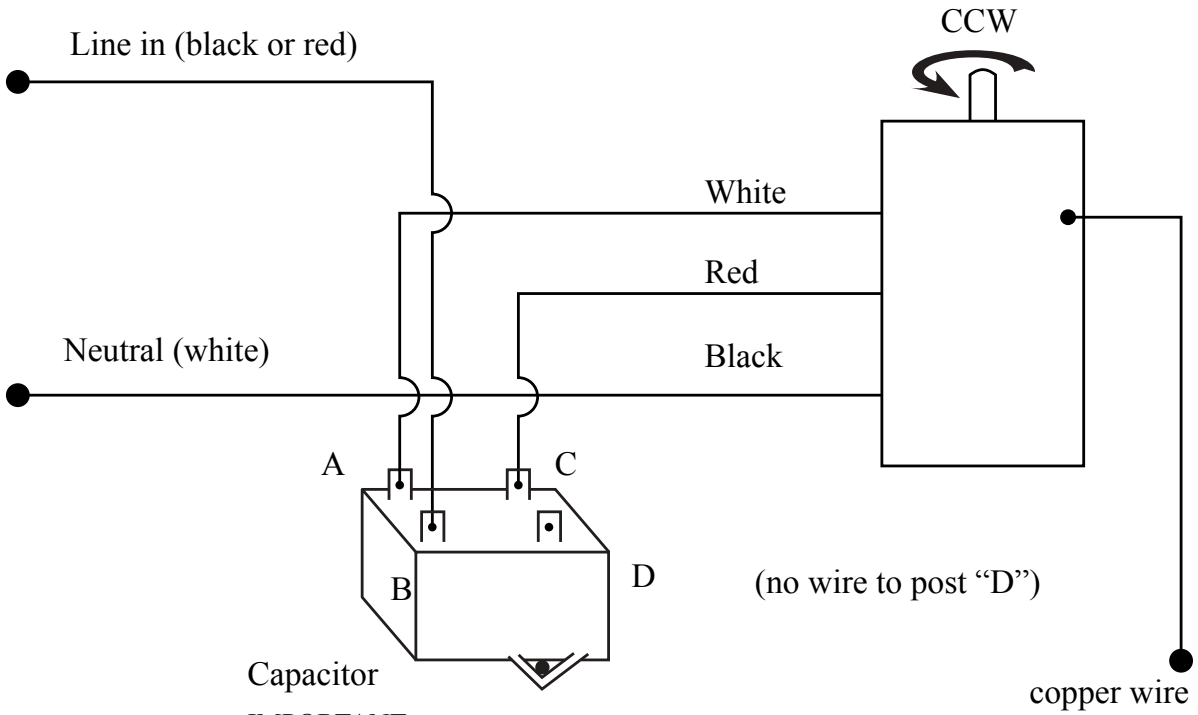
Wiring diagram with capacitor
for Oriental Motor



IMPORTANT:
Capacitor and connections must be mounted inside a junction box by a certified electrician.