



Whole House Attic Fan - Electric

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READ AND SAVE THESE INSTRUCTIONS

SAFETY INFORMATION

Read the following, safety information before installing this Whole House Attic Fan. Failure to follow these instructions could result in personal injury or property damage.

If you need assistance in understanding these instructions or have questions or comments, please call 309-692-6969.

WARNING - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT USE THIS FAN WITH ANY SOLID-STATE SPEED CONTROL DEVICE.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING: Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from

being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

Whisper Aire™ WHSP2000 Whole House Attic Fan Installation Instructions

CAUTION - FOR GENERAL VENTILATING USE ONLY. DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS AND VAPORS.

CAUTION - THIS UNIT HAS AN UNGUARDED IMPELLER DURING OPERATION. DO NOT USE IN LOCATIONS READILY ACCESSIBLE TO PEOPLE OR ANIMALS.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS,

OBSERVE THE FOLLOWING

- Qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction, must do installation work and electrical wiring.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
DO NOT install this unit over a tub or shower.
- NEVER** place a switch where it can be reached from a tub or shower.

TOOLS AND MATERIALS NEEDED

- Portable electric drill
- Small drill bit (1/8 - 3/16-inch, etc.) 1/4-inch nut drivers bit
- Screwdriver with Phillips bit
- Tape measure or folding ruler
- Pencil
- Utility knife. Keyhole saw can be used for cutting sheet rock, but not lumber.

- . Safety goggles
- . Heavy gauge (bailing) wire or wire hanger
- . (3) Twist-on electrical wire connectors
- . 8 to 12 wood screws or nails for framing (see Step 5)
- . 2 x lumber (4 feet maximum to match cross section dimensions of existing joist)
- . Saw for cutting lumber
- . (2) 1.5V (AA) batteries

Optional Tools and Materials

- . Code required electrical materials
- Before you begin the step-by-step installation, read the sections on "Attic Ventilation requirements" and "Electrical requirements" on page 3.

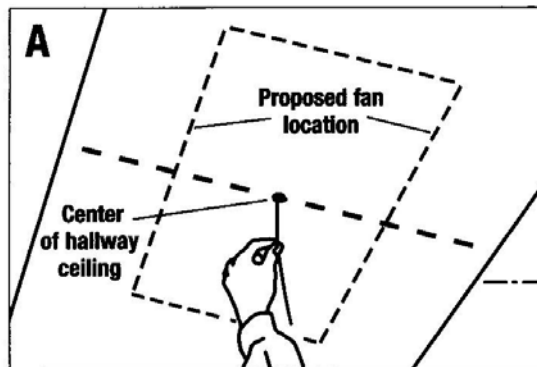
OPERATING INFORMATION

- . Keep screened windows and/or doors open when the fan is operating to avoid drawing carbon monoxide from furnace and water heater flues and extinguishing pilot lights of appliances.
- . During hot weather requiring air conditioning, when outside air is cooler than indoors, cool the house quicker by first operating the whole house fan for approximately 10 minutes. Then turn off the fan and turn on the air conditioner.

WHAT IS INCLUDED :

- . To make sure you have everything you need to install your new whole house attic fan, unpack the carton and take inventory. The carton should contain:

- (1) Fan assembly
- (1) Stamped return grill with (6) fasteners
- (1) 1 inch wide x 84 inch long roll of adhesive-backed foam
- (1) Black plastic junction box cover with (4) mounting screws
- (1) Remote controller (6) Hex head screws for mounting fan unit to ceiling joist.



Step 1: Select a central location for the fan

- . Your whole house attic fan is designed for horizontal mounting on the floor of your attic, usually above a centrally located hallway.
- . In the hallway, find the center of the ceiling by measuring half the distance between the walls. Mark the spot with a pencil.
- . Drill a hole on the ceiling mark, and push a straight length of wire through the hole so you can locate it in the attic.

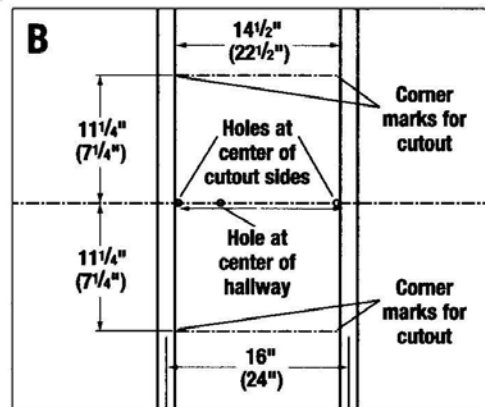
Step 2: Investigate the attic location

- . Go to the attic and find the hole you've made in the ceiling from below. Locate the joist nearest to the hole. Clear the insulation between the joists at the location of the hole (approximately 1 1/2 feet on each side of hole).

Wear work gloves to avoid skin irritation from the insulation.

Check for electrical and other wires or pipes. If any wires or pipes are in the way, you can have them moved by a professional or pick another location to mount the fan.

Check the clearance above the fan location. There must be at least 24 inches between the top of the fan and the roof. Providing enough air space above the fan helps prevent the motors from overheating and keeps them running efficiently.



Step 3: Establish cut-out location inside attic

Note: If the whole house fan fits through your attic access opening, the remaining installation steps can be performed from inside the attic except grill-mounting and cutting framing lumber.

- . If ceiling joists are perpendicular to the length of the hallway, refer to Section A.
- . If ceiling joists are parallel to the length of the hallway, refer to Section B.

Section A

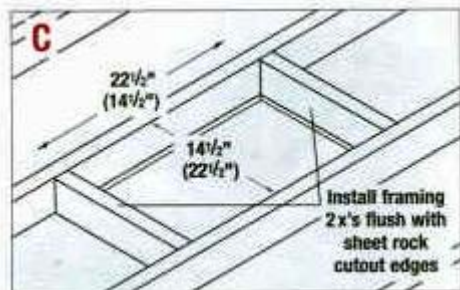
- . Drill two holes at edges of joists as shown. (Illustration B) This marks the center of the sides of the hole cut-out.
- . For 16-inch OC joists, measure 11 1/4 inches (or for 24-inch OC joists, measure 7 1/4 inches) from both sides of both holes along edges of joists and mark. This locates the four corners of the cut-out as shown. (Illustration B)

Section B

- . Select the joist bay that has the "centering" hole that was created in Step 1.
- Note: In this situation it is possible that the whole house fan will not be centered in the hallway.
- . Drill two holes at the edges of the joists in perpendicular line with "centering" hole. (Illustration B)
 - . For 16-inch OC joists, measure 11 1/4 inches (or for 24-inch OC joists, measure 7 1/4 inches) from both sides of both holes along edges of joists and mark. This locates the four corners of the cut-out as shown. (Illustration B)

Step 4: Cut the hole

- . Using a keyhole saw or utility knife, cut between the four corner locations.
- Note: If you are cutting from inside the attic, you may first want to cut a hand sized hole at the center to allow for a place to secure the sheet rock while cutting between the four corners. This will ensure that the face of the sheet rock will not tear from below.



Step 5: Install the framing members

- . Depending on the ceiling joist spacing, cut 2X lumber to 14 1/2-inch lengths for 16-inch OC joists or 22 1/2-inch lengths for 24-inch joists.

Note: Verify these lengths with a tape measure before cutting lumber.

- . Using nails or wood screws (not provided), install the framing members between the joists with the inside edge flush with the exposed sheet rock edges. (Illustration C)

Step 6: Mount the fan assembly

- . Using the 1-inch rolled adhesive-backed foam, cut and apply to the underside of the flange around perimeter of housing wall. (For positioning: edge of foam can be butted against wall of housing.) Application of the foam minimizes vibration and seals possible air passages between the living space and the attic.

- . Using the six pre-drilled holes in the whole house fan flange, secure the fan assembly to the ceiling joists and framing-using fasteners provided.

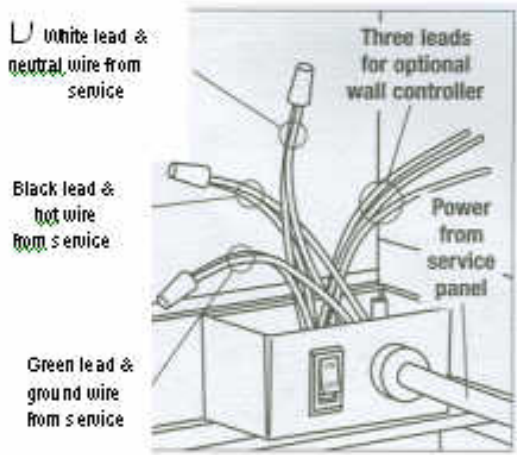
Note: Orientation of the whole house fan should allow clearance for a fully open shutter (not only vertical distance above fan, but also horizontal clearance at hinged side of the fan).

Step 7: Make electrical wiring connections

- . Refer to "Electrical Requirements" section, page 3, for information on bringing electric power to fan location.

- . At your home's breaker box, turn off the electrical power to the circuit associated with the fan. Do not turn on the power to this circuit until you have completely finished the fan installation.

- . From the attic, use wire nuts to connect the black wire from the power supply to the fan's black wire. Connect the white wire from the power supply to the fan's white wire.



Connect the ground wire from the power supply to the green wire. (Illustration D) Note: Leads other than those specified previously are only to be used for an optional wall-mounted control. Do not remove insulation from those lead ends unless installing the optional control.

For more information about the wall-mounted control (timer and speed control), call 309-692-6969.

Push the wire connections into the fan's wiring box. Install the box cover with the four mounting screws provided.

- Turn on the switch mounted to the junction box.
- Before leaving the attic, place the attic insulation around the whole house fan.

Step 8: Install the grill

- From the hallway, use a utility knife to trim 3/4-inch from the edges of the long sides of the sheet rock opening. Trim 5/8-inch from the edges of the short sides of the sheet rock opening. This will expose portions of the ceiling joists and framing to allow for a flush installation of the grill. (Illustration E)
- Using the six fasteners provided, center and install the grill over the opening. The fasteners should penetrate the joists and framing.

Step 9: Operate the fan

- Open windows and interior doors of rooms to be ventilated by the fan.
- If You have a fireplace, make sure the flue is closed.

- At your home's breaker box, switch on the circuit breaker associated with the fan.
- Insert batteries into remote. - Refer to the back of the remote control for whole house fan operating instructions.

ATTIC VENTILATION REQUIREMENTS

In order for the whole house fan to work properly, adequate ventilation is needed to exhaust the hot air from the attic that the fan pulls into the attic from your home's living space. If your attic is not adequately vented, the whole house fan will shut off automatically.

- The WHSP2000 whole house fan requires a minimum of 2.6 square feet, or approximately 384 square inches, of open attic vent area.
- Check your attic ventilation system to make sure that it provides at least this minimum amount of open vent area. Typically, under-eave or soffit vents are installed near the floor of the attic, and roof louvers, gable vents, or ridge vents are installed high in the attic to allow air to escape. ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ to provide attic ventilation year round and when the whole house fan is on, these vents provide the net free area to exhaust it. Remember: When measuring your vents, obstructions such as louvers and screens need to be factored into the open area. A good rule of thumb is to divide the vent's size in half.

ELECTRICAL REQUIREMENTS

Your whole house attic fan runs on standard 115-volt house current. Electrical installation and wiring of the fan must adhere to the National Electrical Code and all local codes that apply, including fire-rated construction. Wiring the whole house attic fan itself is a simple procedure that most homeowners can accomplish (see Step 7, page 2). However, bringing the electrical power supply to the fan requires a higher level of electrical knowledge and skill. If you are not experienced at installing residential electrical wiring and/or are not familiar with all national and local electrical codes, you should hire a qualified electrician to do the wiring for you.

FIVE-YEAR LIMITED WARRANTY

The WHSP2000 is warranted for five (5) years from date of purchase against defects in

workmanship and materials. This warranty covers the fan blades and motors.