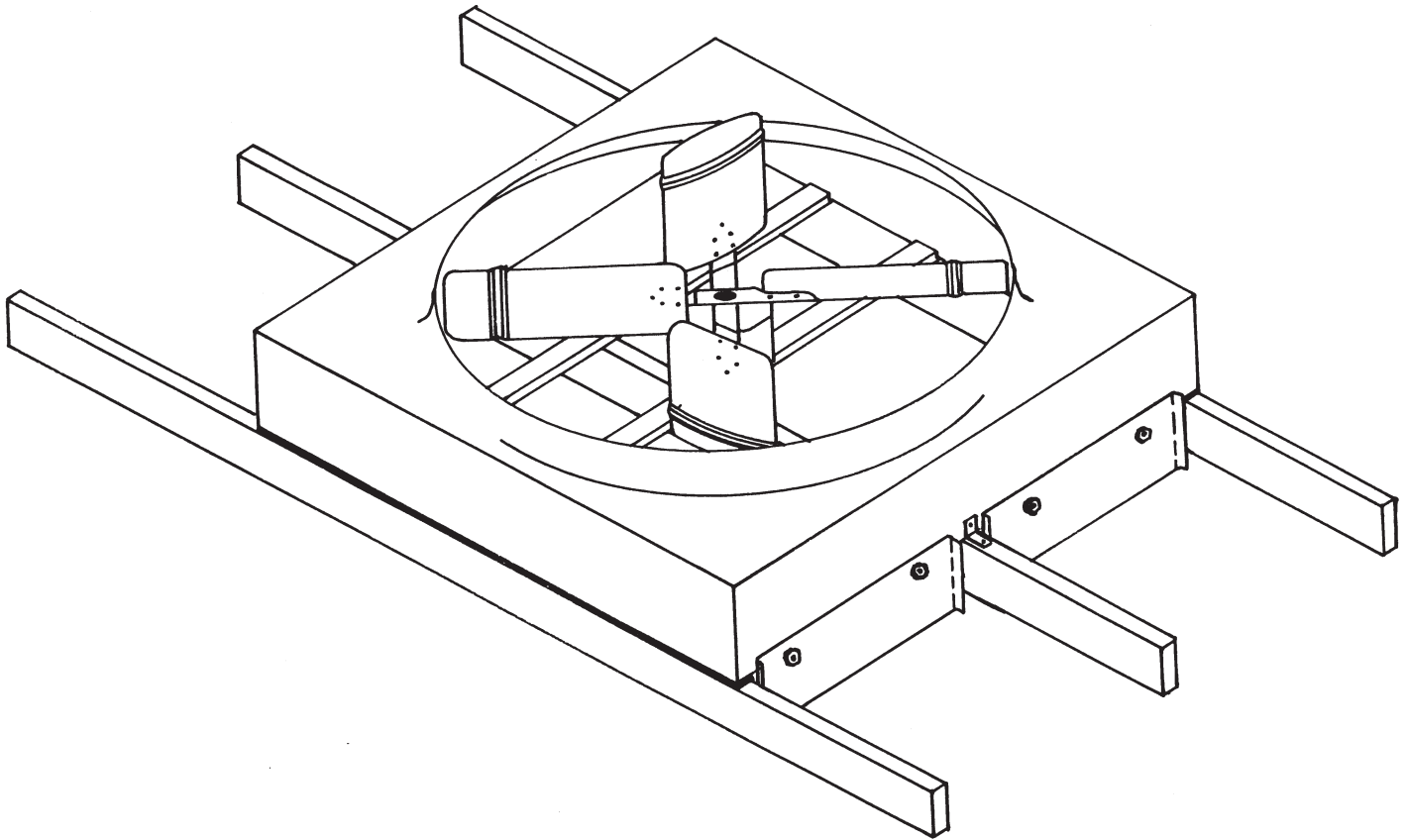


# READ AND SAVE THESE INSTRUCTIONS



**Marley**  
Engineered Products

**MODEL 30DDWS  
WHOLEHOUSE VENTILATOR**



Your wholehouse ventilator is designed and engineered to provide years of satisfactory service in cooling and ventilating your entire house. Hot, humid air is drawn from the living areas and replaced by cooler outside air. This cooler air may be routed through selected areas of the house by opening the proper windows and doors.

This wholehouse ventilator is a direct drive unit designed to provide maximum ventilation at minimal sound levels, and is supplied with a two-speed pull chain switch. It is specifically designed to eliminate cutting of 16" O.C. and 24" O.C. joists, thus providing the easiest installation available. The shutter is also designed to give an attractive flush appearance without cutting the center joist.

**LEAVE THIS MANUAL WITH THE HOMEOWNER**

# IMPORTANT SAFETY INSTRUCTIONS

## WARNING: TO REDUCE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Do not use this fan with any Solid-State control device.
2. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
3. Before servicing or cleaning unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally.
4. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
5. 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 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.
6. **CAUTION:** For general ventilation use only! Do not use to exhaust hazardous or explosive materials and vapors.
7. When cutting or drilling into wall or ceiling, do not damage electrical wiring or other hidden utilities.
8. **CAUTION:** This unit has an unguarded impeller. Do not use in locations readily accessible to people or animals.

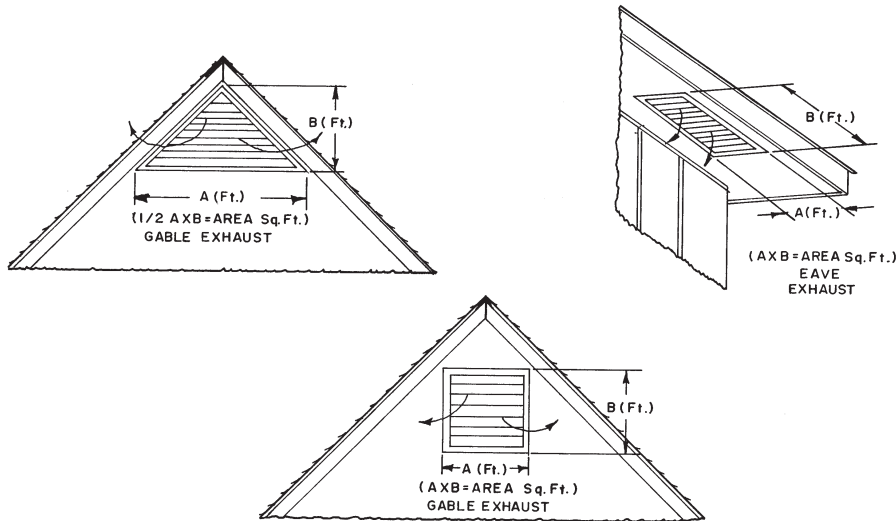
## USE PROTECTIVE GLASSES AND FOLLOW ALL SAFETY INSTRUCTIONS.

## ATTIC AIR EXHAUST REQUIREMENTS

Your wholehouse ventilator will be discharging a large volume of air into the attic every minute. Provisions must be made to allow this air to escape to the outside. The figures below illustrate several types of exhaust vents that are in common usage. Of these types, the under-eave and gable methods are the most prevalent. The fan requires a given amount of exhaust outlet in order to ensure unrestricted air movement. The table below shows the minimum area required for proper operation of the fan. Unless enough exhaust outlet is provided, the fan will run hot, activating the thermal protector and shutting off the motor.

### MINIMUM ATTIC DISCHARGE AREA REQUIRED (SQ. FT.)

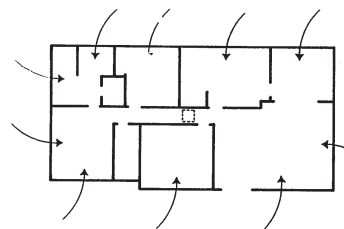
UNRESTRICTED OPENING REQUIRED	WOOD LOUVRE* OPENING REQUIRED	METAL LOUVRE* OPENING REQUIRED	SHUTTERS
8	18	14	6



\*If fly screen is used, double these values. If 1/2" hardware cloth or large mesh expanded metal are used, the values given are sufficient. If no screen is used, reduce values shown by 20%.

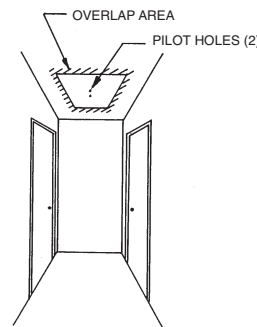
**STEP 1** - Fan should be located in center of house, preferably in hallway or corridor. This will allow air to be drawn from all parts of the living space (See Fig. 1). Determine tentative location of fan.

**FIG. 1**



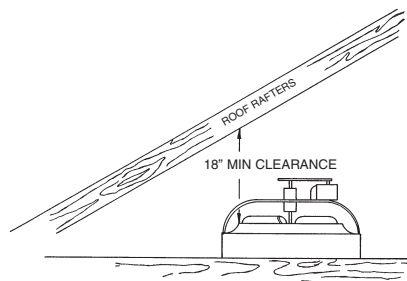
**STEP 2** - Determine joist direction and locate center joist in tentative fan opening. Lightly pencil a rectangular 28" x 33 1/2" opening on ceiling, centered over center joist, below where shutter is to be located, or 28" x 34" when opening is used to pass fan housing into attic. Make sure the longer side is parallel to joist direction. Check to be sure enough clearance area is available on ceiling for overlap of shutter flanges (1 1/2" on all sides). Drill two small pilot holes close to center joist, (one on either side) to indicate where hole will be centered. (See Fig. 2).

**FIG. 2**



**STEP 3** - Now clear insulation and find pilot holes in attic. Tentatively lay out same rectangular hole as on ceiling below. Adjust location of hole, if necessary, to ensure a minimum vertical clearance from roof rafters of 18" above fan (See Fig. 3).

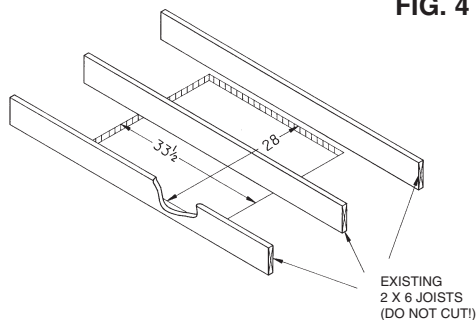
**FIG. 3**



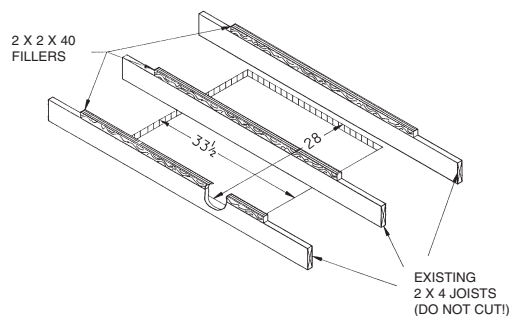
**STEP 4** - Carefully cut hole in ceiling, being careful not to cut into center joist. Cut along both sides of the center joist, and be sure to remove the sheetrock from the center joist facing. If you have 2 x 4 joist construction, the joist on which the fan will be mounted must be built up to 2 x 6 joist height. This can be done very easily at this point by nailing (3) 2 x 2 furring strips 40" long to the top of the joists, one on each joist (See Fig. 4 thru 7).

**FOR CEILINGS WITH JOISTS ON 16" CENTERS**

**FIG. 4**

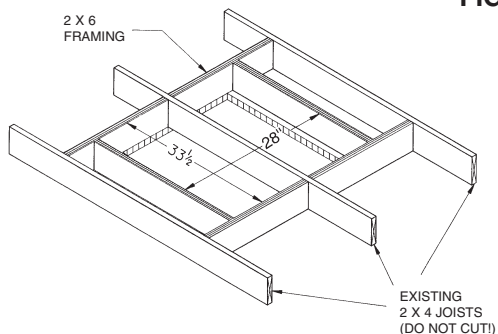


**FIG. 5**

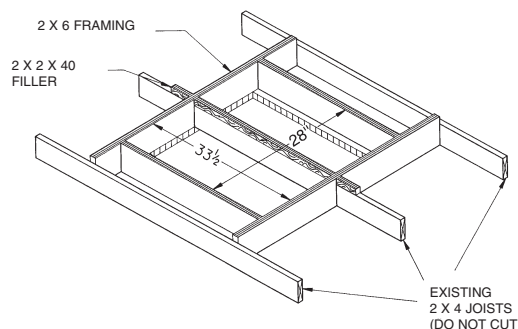


**FOR CEILINGS WITH JOISTS ON 24" CENTERS**

**FIG. 6**



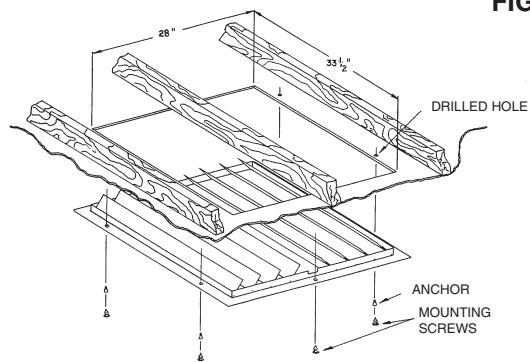
**FIG. 7**



**NOTE:** Opening hole for shutter is 28" x 33 1/2" and should be centered on center joist.

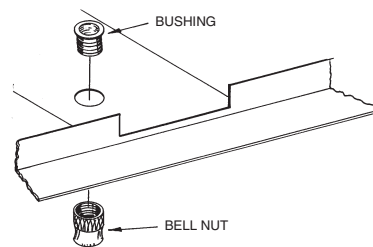
**STEP 5** - Align the shutter with opening and joist. Fasten with two screws along the center joist. Mark the remaining four holes with a pencil. Remove the center screws and shutter from ceiling, and drill a 3/16" pilot hole where marked. Insert the four plastic anchors into pilot holes and remount shutter using the six wood screws provided (See Fig. 8).

**FIG. 8**

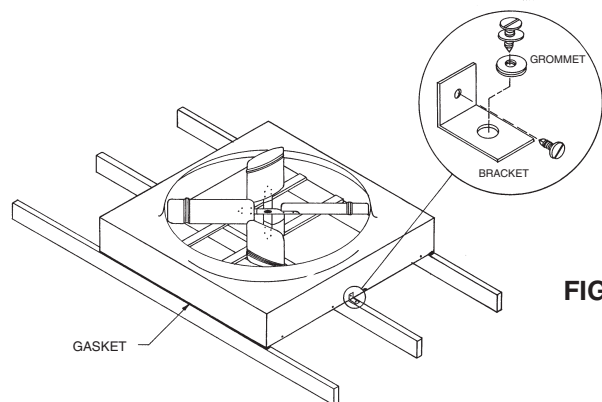


**STEP 6** - To install chain guide, provided in shutter carton, insert bushing into center panel and secure bell nut to bushing (See Fig. 9).

**FIG. 9**

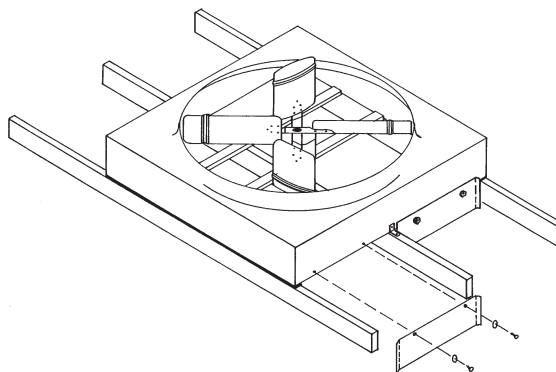


**STEP 7** - Position fan on joist and center over shutter to assure proper shutter operation. **NOTE: Make sure fan is oriented so switch chain is lined up over chain guide in shutter.** Remove adhesive backing from the 1/2" x 1'2" gasket material and attach to the bottom flanges of fan which rest on joists. Install grommets in bracket and attach on each end of fan, using two of the short screws provided. Attach fan and brackets to center joist with the two long wood screws and flat washers. Do not crush grommets when tightening screws (See Fig. 10).



**FIG. 10**

**STEP 8** - Attach side panels to fan using remaining short screws and washers. Bottom of panels should rest upon ceiling. Bend flaps back on panels when inserting panels between joists (See Fig. 11).



**FIG. 11**

## WIRING THE FAN

**PRECAUTIONS:** Read carefully before wiring fan!

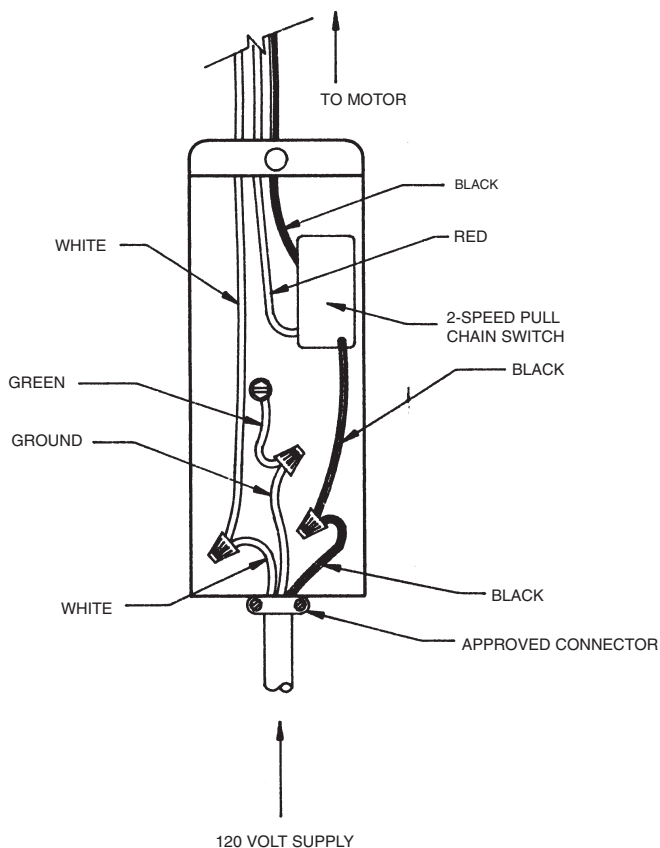
- Electrical connections and all wiring should be in accordance with the National Electrical Code and all local codes that may apply.
- To avoid possibility of serious injury or electrical shock, the installer must disconnect electric circuit supplying power prior to wiring fan.
- **CAUTION:** Incorrect wiring can cause motor failure and possibly fire. PATTON will not accept liability for damage resulting from incorrect wiring.
- *Follow all wiring diagrams and instructions carefully!*
- This fan is designed to run on 120 volt A.C. 60 Hz power supply only.

FIG. 12

**STEP 1** - Connect power supply to wiring compartment with an approved type connector, i.e. BX or Romex Connector.

**STEP 2** - Connect supply wires using approved wire nuts (See Fig. 12).

**STEP 3** - After wiring of fan is completed and shutter is properly installed, turn power on and test for proper operation.



### OPERATING HINTS AND SUGGESTIONS

1. Never operate a wholehouse fan with all outside doors and windows closed. Air will be drawn down the chimney, bringing soot into the house. This could also impair flue gas ventilation of furnaces, water heaters, etc. located in the house, possibly drawing fumes into the house. Be sure to open enough doors and windows to provide adequate ventilating air intake.
2. For best results, open windows in OCCUPIED rooms only. This will insure maximum breeze where you want it most. Before retiring at night, bedroom windows may be opened 15-20 minutes earlier in order to give the fan opportunity to draw out bedroom heat and bring in cooling air from the outside. Windows should be opened 4" - 6" from the bottom for best results.
3. Experiment with the drawing power of the fan. It is possible, by regulating room doors and windows, to get air movement through several rooms without actually opening windows in all the rooms. Air in a house acts like water in a pipe; it follows the path you provide.
4. Check fan periodically for insulation or any foreign materials having fallen into or onto any part of the fan.
5. **Turn off all electric power to the fan at the control panel - Remove fuse or disconnect circuit breaker before performing any maintenance.**

### ACCESSORIES

The MODEL 1012A Timer may be used to control the fan if it is desirable to run the fan after retiring at night. This timer can be set manually to run up to 12 hours, turning fan off automatically at the pre-set time.

## LIMITED WARRANTY

Dear Customer,

Thank you for your interest in Marley Electric Heating products. We're sure you will enjoy its benefits for many years to come. Please take a minute to fill out the following information and keep it in your permanent records.

Date Purchased \_\_\_\_\_ Date Installed \_\_\_\_\_

Model Number \_\_\_\_\_

### LIMITED WARRANTY

This Marley Electric Heating product is warranted to be free of defects in material and workmanship for 12 months from date of original purchase.

There is no other warranty, express or implied, except such as is expressly set forth herein. Seller will not be liable for any general, consequential, or incidental damages, including without limitation any damages for loss of use or loss of profits, for any breach of warranty or for negligence. Seller's liability and buyer's exclusive remedy are limited to the repair of defective goods or the shipment of equivalent goods, or the granting of a reasonable allowance on account of any defects, as the seller may elect.

To obtain performance under this warranty, you must:

1. Contact the Marley Electric Heating Service Department at 1-800-642-HEAT between the hours of 8:00 a.m. and 5:00 p.m. E.S.T. Monday through Friday.
2. Provide the model number of the product, the date of installation, and state the nature of the difficulty being experienced.

3. The Marley Electric Heating Service Representative will determine the best way to resolve the difficulty.

Products within warranty which have been installed and returned to the seller for repair will be repaired and returned as used products. Repairs to products outside the warranty period will be subject to labor and parts charges.

Some states have enacted legislation which (a) does not allow the inclusion of limitations on incidental or consequential damages; (b) does not allow limitations on the length of a warranty period; (c) precludes exclusion, during the period of a limited warranty, of any implied warranties of merchantability or fitness for purpose.

To the extent of such provisions being applicable in your state, the limitations in this warranty may not apply.

### TO ENSURE SAFE OPERATION

- Be sure that this unit is correctly installed and wired by a qualified installer in accordance with the instructions and applicable NEC or equivalent codes.
- Be sure that operating instructions are followed and that moving and heating parts are kept clean and free from obstructions.

Any warranties granted or liabilities assumed hereunder will not apply to goods that have been damaged in transit, altered, repaired, installed or operated otherwise than in conformity with the above requirements for safe operation.

## HOW TO ORDER REPAIR PARTS

In order to obtain any needed repair or replacement parts, warranty service or technical information, please contact Marley Electric Heating Service Center toll-free by calling 1-800-642-HEAT.

When ordering repair parts, always give the information listed as follows:

1. The Part Number
2. The Model Number
3. The Part Description
4. Date of Manufacture



**Marley**  
Engineered Products

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