

HUNTER The Original OLD TIME CEILING FANS™

Over 80 years of leadership

**ROBBINS
& MYERS**

THE PAST

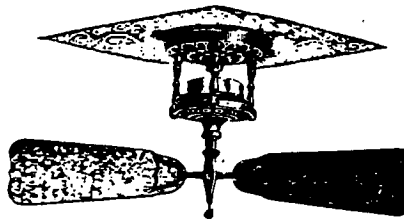
It was 1886 when the Hunter Brothers of Fulton, New York launched the business. Other interesting things happened that year too. Geronimo surrendered. President Grover Cleveland got married in the White House. Robert Peary headed for the North Pole.

So Hunter Is Historic yet Robbins & Myers, with which Hunter merged in 1949, is even more so. R & M was founded in 1878 in Springfield, Ohio. Both companies were national leaders in the development of fans, and the merger of their experience and know-how was good news for customers all over the country.

So the name is now Comfort Conditioning Division, Robbins & Myers, Inc. The address is 2500 Frisco Avenue, Memphis, Tennessee 38114. The products are still the world's best fans.

Tuerk "Artistic" Ceiling Fans

In Three Grades, Nos. 1, 2 and 3

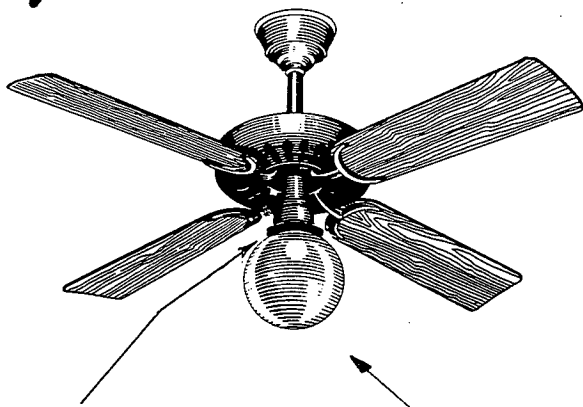


(From our 1903 Catalog)

THE PRESENT

Operating at slow speeds, HUNTER Ceiling Fans are ideal for quiet circulation of large volumes of air at low velocities. Extremely quiet operation, dependability and inexpensive installation have made HUNTER Ceiling Fans the standard for hotels, restaurants, offices, stores and homes since 1886. They are ideal for meat and fruit counters, as vestibule-fan in stores, and especially over open doorways to divert insects. HUNTER Ceiling Fans are more sought after today by home owners and business people than in history for their look of antiquity and decorative value as well as their efficient and quiet air circulating qualities.

PRESENT SPECIFICATIONS



OPTIONAL LIGHT KIT AND GLOBE
AVAILABLE

1. Two speed motors
2. 120v., 60HZ., single phase operation.
3. Fan blades can be mounted as close as 9 1/2" from ceiling on some models. See chart in installation instructions for specific clearances required.
4. Fans available in many colors and finishes.
5. Optional light kit available. Consult catalog for specific information.
6. Adaptair blades available for 52" model. A single control changes blade pitch from downflow to up-flow.
7. Solid state, wall mounted, variable speed control, (catalog No. 22166), is available for the 52" model for fully adjustable speed control.

FAN SIZE	SPEEDS	CFM (NEMA)	RPM HIGH	RPM LOW	WATTS HIGH	WATTS LOW	SHIP WT.
36"	2	4000	275	175	85	55	21
52"	2	7000	200	115	155	80	45

INSTALLATION INSTRUCTIONS

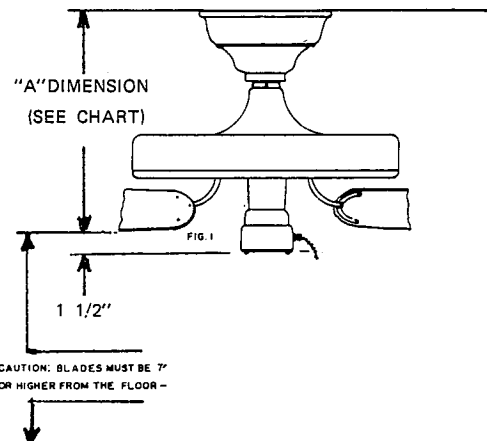
Note: Your Hunter fan has been carefully manufactured, using the finest of materials and craftsmanship for long life and simplicity of installation and operation. To insure quiet operation and full efficiency of the unit, please follow the included instructions carefully, observing the "caution" notes at the beginning of each step. The basic instructions cover a standard installation in a drywall or plaster ceiling. The mounting instructions for additional wood and concrete installations are covered in an additional section following the basic instructions below.

STEP 1. PRE-INSTALLATION INSTRUCTIONS

- A. Select installation site. Check to make certain that in normal use no object can come in contact with the rotating fan blades. Mounting site should also meet the pre-cautions listed in step 3 below.
- B. Installation hardware is included for a standard drywall or plaster ceiling. You will need a 4" X 1-1/2" octagon junction box and wire nuts (2) which can be purchased from any hardware store or electrical supply house.
- C. The pipe nipple included will mount the unit so that the bottom of the fan blades will be approximately 10" from the ceiling. If the ceiling height is over eight feet, you may wish to increase the distance to the ceiling by increasing the length of the mounting pipe. To determine new pipe length, take desired distance from ceiling to fan blade lower edge (Dimension "A" in Fig. 1), add 2" to it, then subtract minimum hanging dimension as req'd from chart. Discard 2" nipple supplied with unit if longer pipe section will be used.

CAUTION: IN DETERMINING PIPE LENGTH, BE CERTAIN THAT FAN BLADES WILL REMAIN AT LEAST 7' ABOVE FLOOR TO AVOID STRIKING TALL PERSONS OR OBJECTS. ALSO, BE CERTAIN THAT PIPE PURCHASED IS .109" WALL MINIMUM TO PROPERLY SUPPORT FAN. PIPE MUST HAVE 3/4"-14 NPT THREAD EACH END.

MINIMUM HANGING DIMENSIONS (USING 2 1/2" PIPE NIPPLE SUPPLIED)		
TYPE OF MOUNT	"A" FOR 36" FANS	"A" FOR 52" FANS
SEMI-RECESS (SEE FIG. 2)	10"	12"
SURFACE (SEE FIG. 3)	10 1/2"	12 1/2"



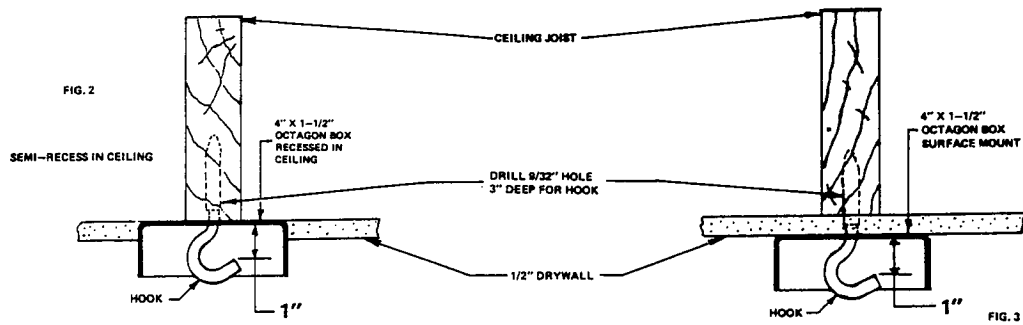
STEP 2. INSPECTION OF UNIT

- A. Unpack unit carefully to avoid damage to any components.
- B. Check for any shipping damage to motor assembly and fan blades. If more than one unit is being installed, keep fan blades in sets of four, since they are shipped as a matched set. Should one of the fan blades receive damage during shipment, return all four blades for replacement.
- C. Check contents for assembly hardware. Make certain that a bag of parts and a canopy have been included with the unit.

STEP 3. INSTALLATION OF CEILING MOUNTING HARDWARE

CAUTION: YOUR CEILING FAN MAY WEIGH UP TO 50 LBS, SO THE FOLLOWING NORMAL PRECAUTIONS MUST BE TAKEN TO INSURE THAT THE UNIT WILL NOT FALL FROM THE CEILING.

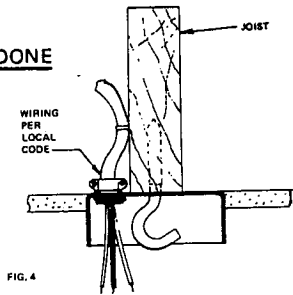
- A. Wood joist must be sound and of sufficient size to support a 50lb. load, but in no case be smaller than 1-1/2" X 3-1/2" (nominal 2X4 size).
 - B. Edge of drilled hole must be no closer than 1/2" from edge of joist to avoid splitting wood when hook is threaded in.
 - C. Use only 9/32" drill so hook will have greatest holding power without splitting wood.
 - D. Do not mount directly to unsupported drywall ceiling or to unreinforced ceiling wiring box.
- A. The unit is designed to fit an octagon junction box surface mounted or semi-recessed into drywall or plaster ceilings as shown in Fig. 2 and 3. Mount this junction box to the ceiling joist at desired location. Note: Fan is supported independantly of Junction box, so box will not require special mounting.
 - B. Drill 9/32" hole 3" deep in center of joist. Thread hook into hole to 1" of inside of box as shown in Fig. 2 and Fig. 3. Use vaseline, soap or oil to lubricate hook threads.



STEP 4: ROUGH-IN WIRING

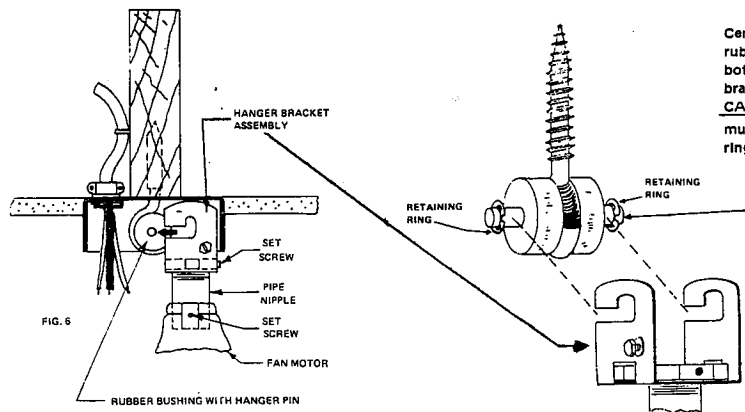
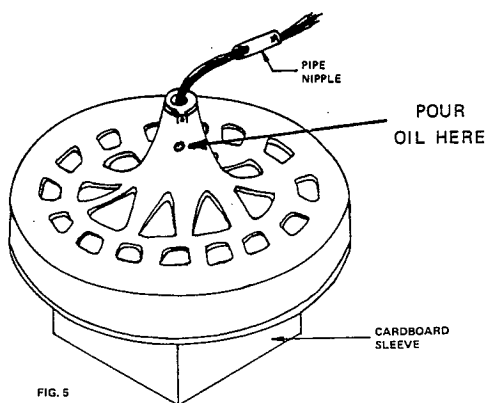
CAUTION: BE CERTAIN THAT ELECTRICITY IS TURNED OFF AT MAIN PANEL BEFORE ANY WIRING IS DONE

- A. Bring Electrical cable into octagon box and attach with an approved connector. Make certain that wiring meets all national and local electrical codes. See Fig. 4.



STEP 5: ASSEMBLY OF FAN AND HANGING FAN ON HOOK

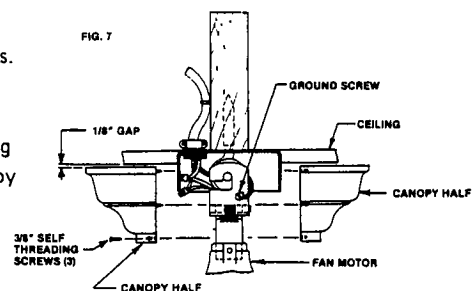
- A. Remove card board sleeve from carton and place on working surface. Carefully set motor into sleeve as shown in Fig. 5.
- B. Feed wires from top of motor through pipe nipple. See Fig. 5.
- C. Thread pipe nipple into fan until tight (at least 4½ turns). Thread pipe nipple into hanger bracket until tight (at least 3 turns). Tighten setscrew in hanger bracket (allen wrench supplied) and set-screw in motor housing. See Fig. 6.
- D. Place rubber bushing on hook. Lift fan and hook hanging bracket onto pin in rubber bushing. See Fig. 6.



Center the hanger pin in the rubber bushing. This allows both arms of the hanger bracket to slide over the pin. **CAUTION:** The hanger arms must be inside both retaining rings.

STEP 6: FINAL WIRING AND CANOPY INSTALLATION

- A. Connect electrical supply leads to leads from motor, using approved connectors. Ground wire must be attached to ground screw as shown in Fig. 7.
- B. Install split canopy by pressing two halves together around pipe, placing pins on one half into holes in other half. Screw halves together using two 3/8" long self-threading screws provided. Allow 1/8" min gap between ceiling and canopy for fan movement. Use extra screw in center of hub to assist in clamping canopy to pipe. See Fig. 7.



STEP 7: FAN BLADE INSTALLATION

Blades are shipped in sets matched by weight. A weight mark appears on the back of each blade. Install blades in sets of matching number, one opposite the other. In some instances, all blades may have the same weight mark and may be installed in any position. Replacement blades should be ordered in sets of 2.

Insert a 12-24 Fillister Head Screw (provided) in hole in blade bracket. Use screwdriver to hold in place. Align blade holes with mtg. holes in hub, by turning screw and re-adjusting blade bracket until screw mates with threaded hole in hub. Repeat for 8 screws.

STEP 8: LUBRICATION OF BEARINGS

CAUTION: DO NOT OPERATE FAN WITHOUT LUBRICATION. SUCH OPERATION COULD RESULT IN PERMANENT DAMAGE TO THE MOTOR.

Fans are shipped without oil. A one-ounce bottle or tube of high grade SAE 20 oil is packed with fan. To avoid overflow during filling, add oil very slowly, about 1/4 of the bottle/tube every 10 seconds. To check oil supply: Bend the end of a pipe cleaner into a 1/2" long hook and insert it into the oil reservoir as shown in FIG. 8. If oil touches the pipe cleaner, the fan has ample oil. If it does not touch, add SAE 20 oil slowly until it just touches pipe cleaner. Under normal use, oil level should be checked once per year.

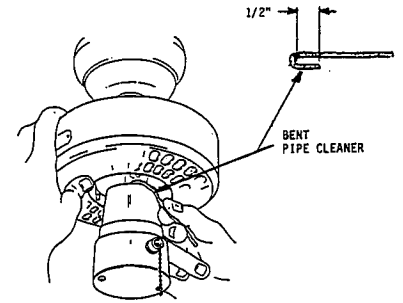


FIG. 8

STEP 9: OPERATION OF FAN

- A. Turn electrical service on at main panel
- B. Attach pull cord to switch chain. Switch operates in sequence, "High" - "Off" - "Low" - "Off", or "High" - "Low" - "Off". Pull cord SLOWLY to operate. Also, release the cord SLOWLY so as to prevent cord from flying up into blades, possibly resulting in damage to blades or injury.

NOTE: DO NOT USE AN ABRASIVE CLEANSER ON FAN. A MILD DETERGENT WILL CLEAN MOST UNITS TO THEIR ORIGINAL APPEARANCE.

INSTALLATION IN CONCRETE CEILING

FOLLOW BASIC INSTALLATION INSTRUCTIONS, INCLUDING CAUTIONS, MAKING THE CHANGES AS LISTED BELOW.

CAUTION:

- A) FOR CONCRETE MOUNTING THE DRILLED HOLE MUST BE AS RECOMMENDED BY THE MANUFACTURER OF THE ANCHOR (THIS IS USUALLY MARKED ON THE ANCHOR) AND MUST BE DRILLED AT LEAST 1/2" DEEPER THAN THE LENGTH OF THE ANCHOR.
- B) THE HOLE MUST BE MADE WITH A SUITABLE CARBIDE TIPPED MASONRY DRILL WITH A TIP DIAMETER CONFORMING TO ANSI B94.12 (5/8" NOMINAL = .660 / .650 ACTUAL)
- C) THE ANCHOR MUST BE NEW AND UNUSED.
- D) THE CONCRETE CEILING MUST BE SOUND AND FREE OF CRACKS OR VOIDS IN THE VICINITY OF THE MOUNTING HOLE.
- E) THE ANCHOR MUST BE HAMMERED IN FLUSH WITH THE SURFACE OF THE CONCRETE.
- F) THE HOOK MUST NEVER BE BACKED OUT. IF THE HOOK CAN BE TURNED EASILY (BY HAND), DO NOT HANG FAN.

- A. Drill hole in concrete ceiling to receive 3/8 x 2 1/2 lag screw expansion shield anchor, "STAR STAZIN" #1825 - 00300 or equal (not furnished). Install shield in hole observing all cautions above, and thread hook into shield to depth shown in Fig. 9. Do NOT back hook out to achieve the 1" dimension.
- B. When properly installed, such an anchor will hold a proof test load of over 900 lbs. and is rated for a safe working load of over 240 lbs.
- C. Proceed with the installation of the fan per the basic installation instructions.

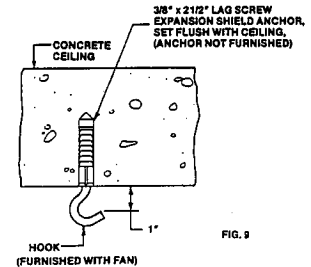


FIG. 9

ADDITIONAL WOOD INSTALLATIONS

USE THE SPECIFIC FIGURE BELOW SHOWING THE MOUNTING DESIRED AS A GUIDE IN CONJUNCTION WITH THE BASIC MOUNTING INSTRUCTIONS.

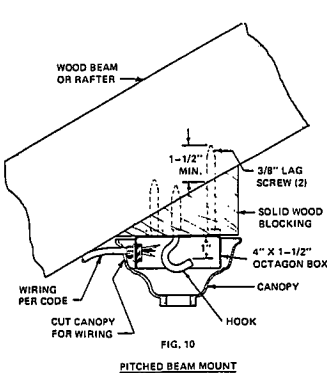


FIG. 10
PITCHED BEAM MOUNT

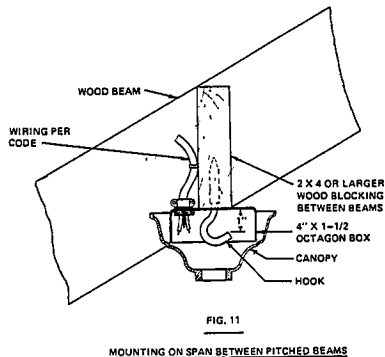


FIG. 11
MOUNTING ON SPAN BETWEEN PITCHED BEAMS

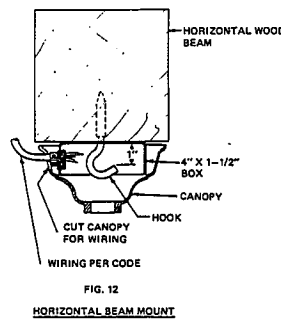


FIG. 12
HORIZONTAL BEAM MOUNT

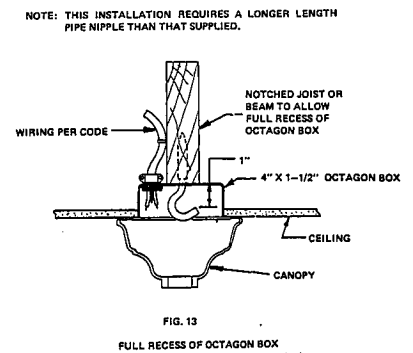


FIG. 13
FULL RECESS OF OCTAGON BOX

Hunter

COMFORT CONDITIONING DIVISION, Robbins & Myers, Inc.
2500 Frisco Ave., Memphis, Tenn. 38114

ROBBINS & MYERS