



INSTALLATION INSTRUCTIONS FOR HUNTER ORIGINAL CEILING FANS

CAUTION:

1. Read this entire instruction manual thoroughly before beginning installation and **save these instructions.**
2. To avoid possible shock, BE CERTAIN ELECTRICITY IS SHUT OFF AT MAIN PANEL BEFORE WIRING. Always turn power off at main panel before servicing your fan or installing accessories.

All wiring must be in accordance with national and local electrical codes. If you are unfamiliar with wiring, you should use a qualified electrician.
3. Follow instructions accurately to make certain the fan is properly attached to the ceiling structure. Make absolutely certain all pipes and set screws are tight, and bushing pin is in place. **FAILURE TO FOLLOW THESE STEPS COULD RESULT IN THE FAN FALLING.**
4. **NEVER REST THE FAN ON THE SWITCH HOUSING.** As you prepare the fan for installation, let the motor rest in the liner in which it was packed.
5. Be sure to put full contents of oil tube in fan according to instructions.
6. Do not use an abrasive cleaner on the fan. A mild detergent will clean and restore most units to their original beauty.

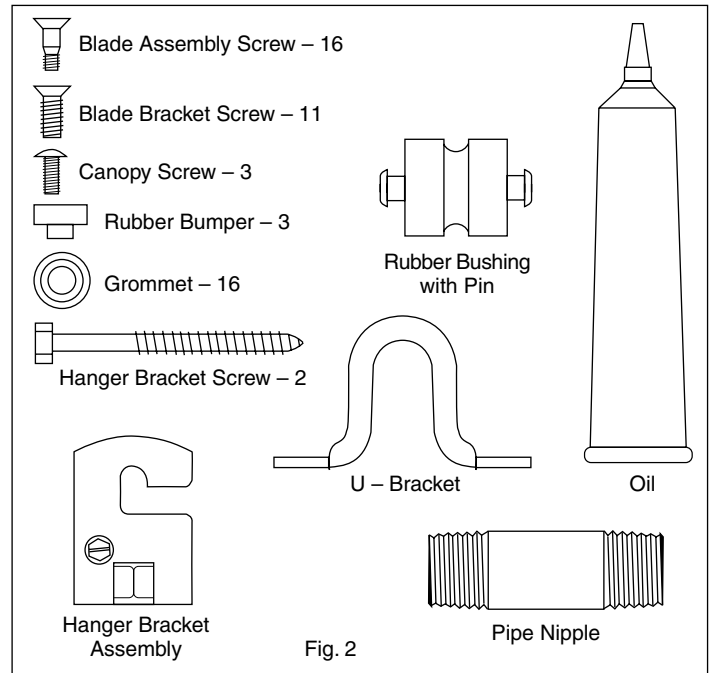
TO ENSURE QUIET OPERATION AND FULL EFFICIENCY OF YOUR FAN, PLEASE FOLLOW ALL THE INSTRUCTIONS CAREFULLY, OBSERVING THE "CAUTION" NOTATIONS FOR EACH STEP.
7. If this fan is used as a replacement for an original olde tyme non-reversible fan, it must be installed per instructions included with this fan. **DO NOT HANG ON SINGLE "J" HOOK.** Failure to follow these instructions could result in fan falling.

Step 2: Inspect Fan

- A.** Unpack the fan carefully to avoid any damage to components.

CAUTION: NEVER LIFT THE MOTOR BY THE WIRES. LET MOTOR REST IN THE CARTON LINER FOR PROTECTION.

- B.** Check the sack parts.



The installation of your Hunter Ceiling Fan

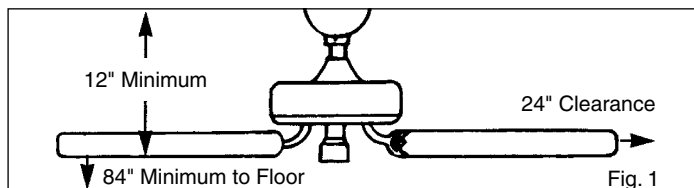
NOTE TO INSTALLERS: Please leave this manual with the owner.

Tools needed:

- Pliers
- Flat blade screwdriver
- Phillips screwdriver
- Electric drill
- 3/8" Socket wrench
- 1 1/64" bit
- 3 wire connectors
- 4" x 1 1/2" standard octagon electrical outlet box

Step 1: Pre-installation

- A.** Select installation site: Normally this is near the center of the room, often replacing a light fixture. Make certain that ample clearance is left for the rotating fan blades. For maximum efficiency, no obstruction (walls, posts, etc.) should be within 24" of the tips of the blades (See Figure 1). Mounting site should also meet the precautions listed in Step 3.



- B.** Fan mounting height: Your Hunter fan comes with the proper hardware to hang the fan from a standard 8 foot ceiling so the fan blades will be 12" from the ceiling and approximately 7 feet from the floor (See Figure 1).

Step 3: Installation of Ceiling Mounting Hardware

CAUTION: YOUR HUNTER CEILING FAN WEIGHS UP TO 50 LBS. THE FOLLOWING PRECAUTIONS MUST BE TAKEN FOR SAFETY AND TO ENSURE THAT YOUR FAN IS SECURELY MOUNTED TO THE CEILING.

- When inspecting or preparing installation site where wiring is available, make sure electricity is "off" at fuse box or circuit breaker panel.
- All wiring must meet local and national codes.
- Do not mount directly to an unsupported ceiling or to an electrical outlet box.
- The wood joist chosen for mounting the fan must be sound and of sufficient size. In no case, should it be smaller than a standard 2" x 4" lumber.

- A.** Turn off electricity at fuse box or circuit breaker panel for appropriate circuit.
- B.** If the mounting site is not centered under an existing ceiling joist (See Figure 4) it will be necessary to reinforce the mounting site with a cross member. (See Figure 4.) The cross member must be a minimum 2" x 4" size and securely mounted between the ceiling joists with nails or wood screws.
- C.** Drill (2) holes no larger than the minor diameter (1 1/64") of bracket screw, 2" deep, 2 9/16" apart in center of joist. Bracket may be used for hole pattern.

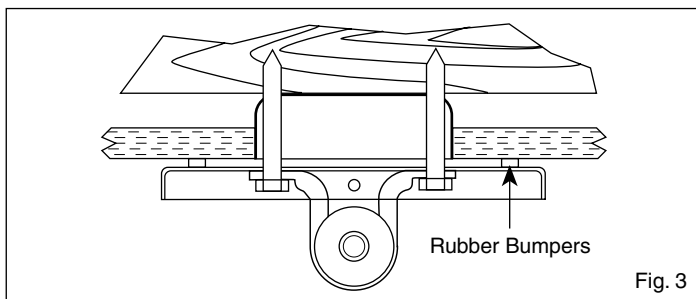


Fig. 3

- D.** Drill (2) $\frac{1}{4}$ " diameter holes $2\frac{5}{16}$ " apart through the back of the outlet box. There may already be two holes at the correct spacing, but they will probably have to be enlarged.
- E.** Use the (2) bracket screws to secure the hanger bracket and canopy plate to the joist as shown in Figure 3. Install rubber bumpers into canopy plate and rubber bushing into hanger bracket before assembling the parts to the ceiling joist. Do not use lubricant on the screw threads.
- F.** You are now ready to hang fan. See Step 4.

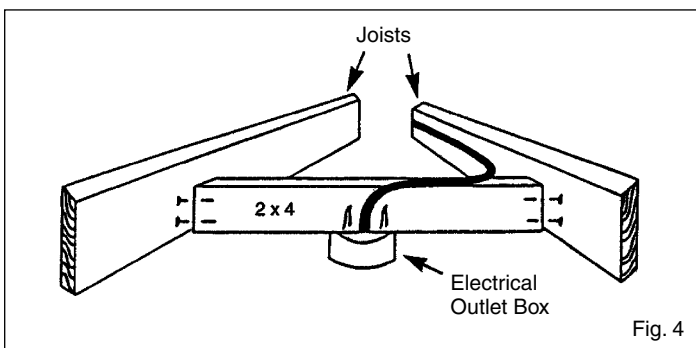


Fig. 4

Step 4: Hanging Your Fan

CAUTION: BE SURE TO TIGHTEN THE PIPE NIPPLE INTO THE FAN, THE HANGER BRACKET ONTO THE PIPE AND TIGHTEN THE 2 SET SCREWS, AS DESCRIBED IN STEP B, TO PREVENT THE FAN FROM FALLING.

CAUTION: YOUR FAN MAY WEIGH UP TO 50 LBS. ALL OF THE FOLLOWING STEPS MUST BE FOLLOWED IN ORDER TO ENSURE A SECURE MOUNTING. PERFORM STEPS A THROUGH D WITH MOTOR RESTING IN LINER FOR PROTECTION.

- A.** Take the hanger bracket from sack parts and pipe nipple from top liner. Feed wires from top of the motor through the pipe.
- B.** Back out screw in neck of fan motor housing and hanger bracket so pipe can be screwed in. Screw the pipe into the fan until tight (at least $4\frac{1}{2}$ turns). Feed wire through canopy and canopy insert and let the canopy rest on the neck of the motor. Slide the canopy insert over the pipe. Feed wire through the hanger bracket and screw hanger bracket onto pipe until tight (at least 3 turns). Then use pliers to tighten both the hanger bracket and pipe together. Securely tighten the set screw in bracket and motor. See Figure 5.
- C.** BE SURE PIN IS CENTERED IN RUBBER BUSHING. See Figures 6 and 7.

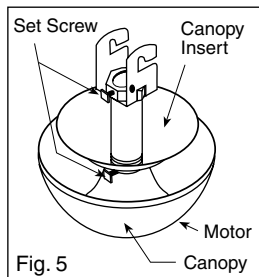


Fig. 5

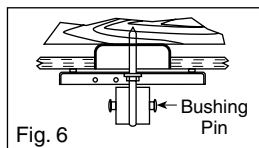


Fig. 6

- D.** Lift the fan by the motor housing, hook the hanger bracket onto the pin in the rubber bushing. **MAKE SURE BOTH ENDS OF THE PIN ARE OUTSIDE THE HANGER BRACKET.** See Figure 7. **FAILURE TO PERFORM THESE STEPS IN CORRECT ORDER MAY RESULT IN FAN FALLING.**

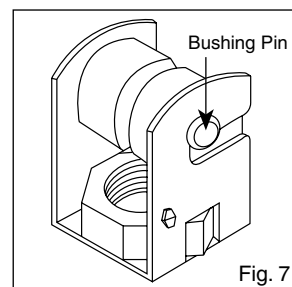


Fig. 7

Step 5: Wiring Instructions and Canopy Installation

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

Before you do the final wiring, you should decide how you want to control your fan—with pull cord, a wall switch, a speed control or a remote control. At this point, you should also decide if you want to add a light adaptor kit. Separate wiring instructions for Hunter accessories are included in accessory packages.

All wiring must conform to national and local codes which may vary by locale.

- A.** Connect black electrical supply lead to the black motor lead and the black with white stripe motor lead. (See Note.) Connect the white electrical supply lead to the white motor lead. Connect the ground wire to green screw on side of hanger bracket. See Figure 8.

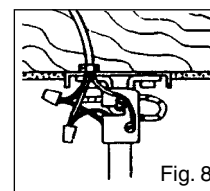


Fig. 8

NOTE: If separate wall switch will be used to control a lighting accessory, connect the black wire with white stripe to the wall switch lead, following wiring instructions included with the accessory. The wall switch must be listed as a general use switch.

CAUTION: NO BARE WIRE OR WIRE STRANDS SHOULD BE VISIBLE AFTER MAKING CONNECTIONS.

After making the wire connections, the wires should be spread apart with the white and green wires on one side of the outlet box, and the black and black & white wires on the other side of the box.

The splices should be turned upward and pushed carefully up into the outlet box.

Canopy Installation

Lift the canopy off the neck of the motor and slide the canopy and canopy insert up until the three holes in the side of the canopy can be aligned with the three threaded holes in the canopy plate. Insert and tighten the three screws that hold the canopy in place. See Figure 9.

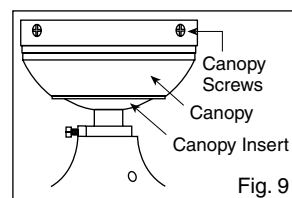


Fig. 9

Step 6: Lubrication

Your fan has been shipped with no oil in the motor. A 1-ounce tube of high grade SAE 10 non-detergent oil is packaged in the sack parts. All of the oil in the tube must be put into the fan. Cut the tip off the tube and place the tip of the tube into the oil hole. **TO AVOID OVERFLOWING DURING FILLING, ALLOW OIL TO GRAVITY FLOW ABOUT ONE MINUTE TO FILL THE OIL RESERVOIR.** See Figure 10.

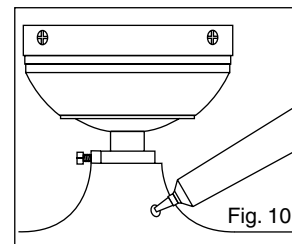
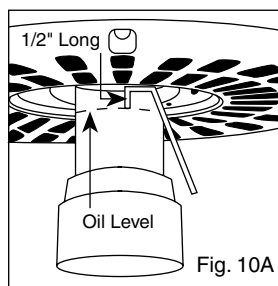


Fig. 10

Checking Oil

Check oil level immediately after filling the reservoir. To check oil, bend an ordinary pipe cleaner into a 1/2" long hook and dip it into the oil reservoir. See Figure 10A. If oil touches the end of the pipe cleaner, the fan has ample oil. If it does not touch, add SAE 10 non-detergent oil slowly until it touches the pipe cleaner.



Your Original Hunter's Unique Lubricating System

The bearings are submerged in a bath of oil. The oil moves up a spiral groove in the shaft, lubricating all bearing surfaces as the fan operates. This lubrication system does not normally "use up" or require the addition of extra oil once the oil reservoir has been filled to the correct level. This unique lubrication system is one reason your Original Hunter Ceiling Fan will last a lifetime. It is highly unlikely that you will ever need to add oil to your Original fan once it is installed. Should you move your fan to another location, it is a good idea to check the oil reservoir. Hunter has developed an accessory 'Original Relocation Kit' that includes all mounting hardware and a fresh tube of oil for this reason. The model number is 22360. This item can be obtained from our service centers.

CAUTION: DO NOT TURN FAN ON UNTIL LUBRICATION HAS BEEN ADDED. TO OPERATE THE FAN WITHOUT OIL OR WITH LOW OIL WILL VOID YOUR WARRANTY.

Step 7: Fan Blade Assembly, Installation and Balancing

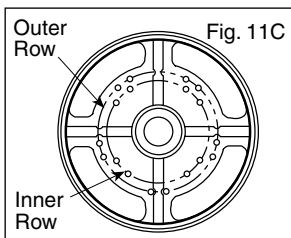
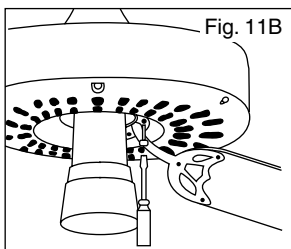
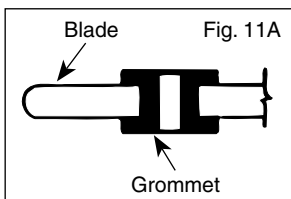
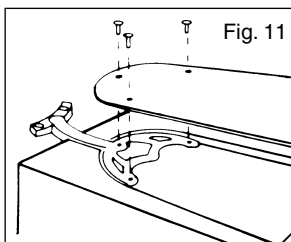
WARNING: TO REDUCE THE RISK OF PERSONAL INJURY, DO NOT BEND THE BLADE BRACKETS WHEN INSTALLING BRACKETS, BALANCING THE BLADES OR CLEANING THE FAN. DO NOT INSERT FOREIGN OBJECTS IN BETWEEN ROTATING FAN BLADES.

A. Attach wood blades to blade brackets using three screws for each blade. (See Figure 11.) If your blades have large holes, you must first insert the rubber grommets into the holes. (See Figure 11A.) Make sure all screws are tight to prevent vibration or wobbling. A cavity in the styrofoam packaging has been provided to nest the parts in during assembly to assure correct alignment of parts.

NOTE: Grommets are usually assembled by hand. If you use a tool, make certain you do not damage the grommet or blade when inserting the grommets.

B. With some fans you have an option to install four or five blades. For five blades, mount to the outer row of holes on the motor. For four blades, use the inner row. (See Figure 11C.)

C. To install the blades to the motor, insert blade iron screw through hole in the blade iron. Use screwdriver to hold in place. Fasten screw onto motor, but do not tighten. (See Figure 11B.)



Line up other hole on motor and fasten the second screw. Before tightening screws, make sure they are not cross-threaded in the mounting holes. Tighten both screws securely. Repeat for remaining blades.

CAUTION: DO NOT ATTEMPT TO RUN FAN UNTIL ALL SCREWS HAVE BEEN TIGHTENED SECURELY.

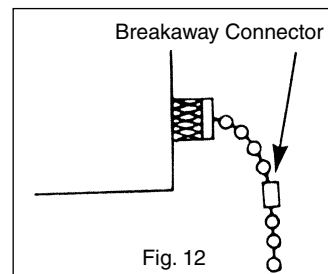
D. A blade balancing kit has been provided with your fan. Should the fan wobble in operation, you may use this kit to correct the balance per the instructions supplied with the kit.

Step 8: Operation of Your Hunter Fan

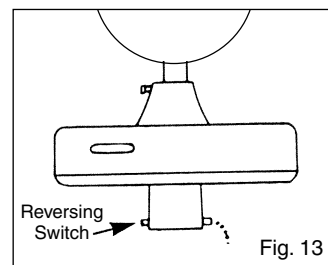
A. The operation of your fan is controlled with a pull-chain switch which has 4 positions: OFF—HIGH—MEDIUM—LOW. Pull the chain gently to obtain the speed you desire.

B. The breakaway connector is designed to separate from the chain at a predetermined force. If this separation occurs, simply reinsert connector. It can be reused again and again. (Figure 12.)

C. Reversing your fan is controlled by a small switch located on the switch housing. (Figure 13.)



Ceiling fans are usually adjusted once in the fall and again in the spring to blow upward in the winter and downward in the summer. You may run them in either direction at anytime, however, as you prefer. Experiment as you like to obtain maximum comfort from your fan.



Care and Maintenance

Once properly installed, your fan needs very little attention beyond checking the oil level. Oil is checked with a pipe cleaner used as a dipstick. (See Step 6.)

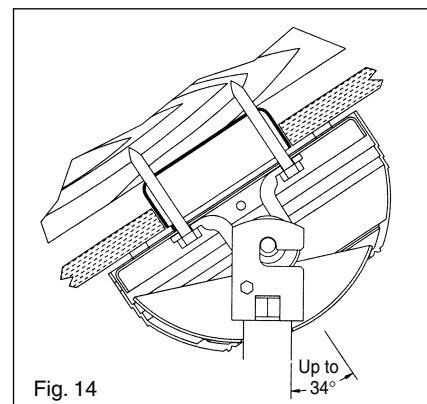
Take care when cleaning your fan. Never use an abrasive cleanser or brass polish. Use a damp cloth or sponge. Do not drip water or soap into the motor.

Blades should be wiped clean periodically to prevent dust buildup. Be careful not to bend the blade irons.

If blades are cracked, or blade irons bent, do not attempt to repair them. Order replacement parts from your Hunter dealer.

Installation On Pitched Ceilings

Your Hunter Fan can be mounted on a pitched ceiling (up to 34 degrees) using the same method as mounting on a flat ceiling, except the hanger bracket and bushing must be aligned so they are pointing up to slope of the ceiling. You will also need an extension pipe, which is available from your Hunter dealer. (See Figure 14.)



Installation In Concrete Ceiling

CAUTION:

1. For concrete mounting, the drilled hole must be 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.
2. The holes must be made with a suitable carbide-tipped masonry drill bit.
3. The anchors must be new and unused.
4. The concrete ceiling must be sound and free of cracks or voids in the vicinity of the mounting holes.
5. The anchors must be set in flush with the surface of the concrete.
6. The bracket screws must never be backed out. If the bracket screws can be turned easily (by hand), do not hang fan.

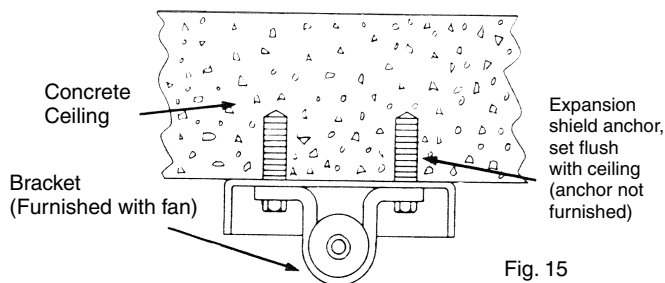


Fig. 15

Installation

- A. Drill holes 2" deep in concrete ceiling to receive 1/4" x 1 1/2" expansion shield anchor. "Rawl No. 1055" or equal. (Not furnished.) Install shield in holes, observing all cautions above.
- B. Proceed with the installation on the fan per the basic installation instructions.

The Inside Story

Oil is constantly pumped up the spiral groove to lubricate the rotor and shaft. The oil is returned to the reservoir where the bearings are submerged in a bath of oil.

This unique lubrication system is built into all Original Hunter Ceiling Fans. That's one reason Hunter fans last so long. And why we can offer a Limited Lifetime Warranty.

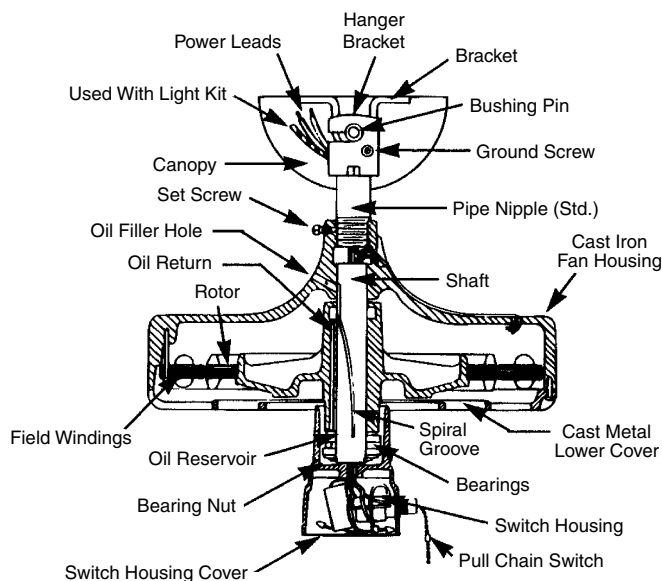


Fig. 16

Trouble Shooting Guide

Problem	Probable Cause	Solution
1. Nothing happens; blades do not rotate.*	1. Power turned off or fuse blown. 2. Loose wire connections or wrong connections. 3. Pull chain switch not "on". 4. Reversing switch in center.	1. Turn power on or replace fuse. 2. Loosen canopy. Check all connections. (Turn power off while checking.) 3. Pull switch cord. 4. Slide reversing switch either up or down.
* NOTE: If blades will not turn by hand, contact your nearest service representative or dealer.		
2. Noisy operation.	1. Blade irons loosely screwed to rotor.	1. Tighten screws until snug.
3. Excessive wobbling.	2. Blade screwed loosely to blade iron. 3. Blade cracked.	2. Tighten. 3. Replace all 4 blades. Contact dealer.
	4. Canopy contacting ceiling. 5. No oil or low oil level.	4. Lower canopy. 5. Check oil level.
	1. Unbalanced blades. 2. Inadequate blade clearance. 3. Loose blades or blade irons. 4. Fan not secure on hanger assembly.	1. Rebalance (See Step 7D). 2. Relocate fan. 3. Tighten all screws. 4. Turn power off. Support fan very carefully. Loosen canopy and hang correctly.

Fill in the blanks below for your record.

Serial Number: _____

Model Number: _____

Date Purchased: _____

Date Installed: _____

Dealer/Store Name Where Purchased: _____



HUNTER FAN COMPANY
2500 FRISCO AVENUE
MEMPHIS, TN 38114