

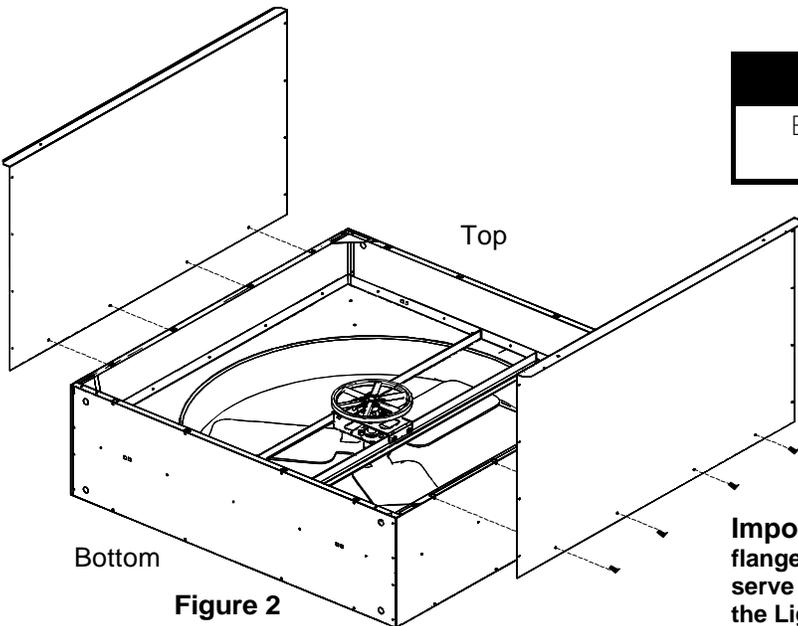
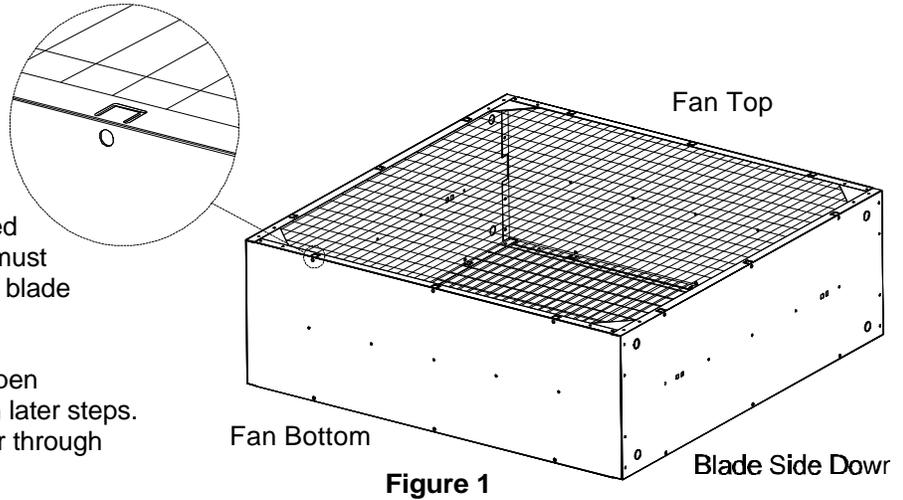


HIRED-HAND®

Light-Trap Adapter Kit

Assembly

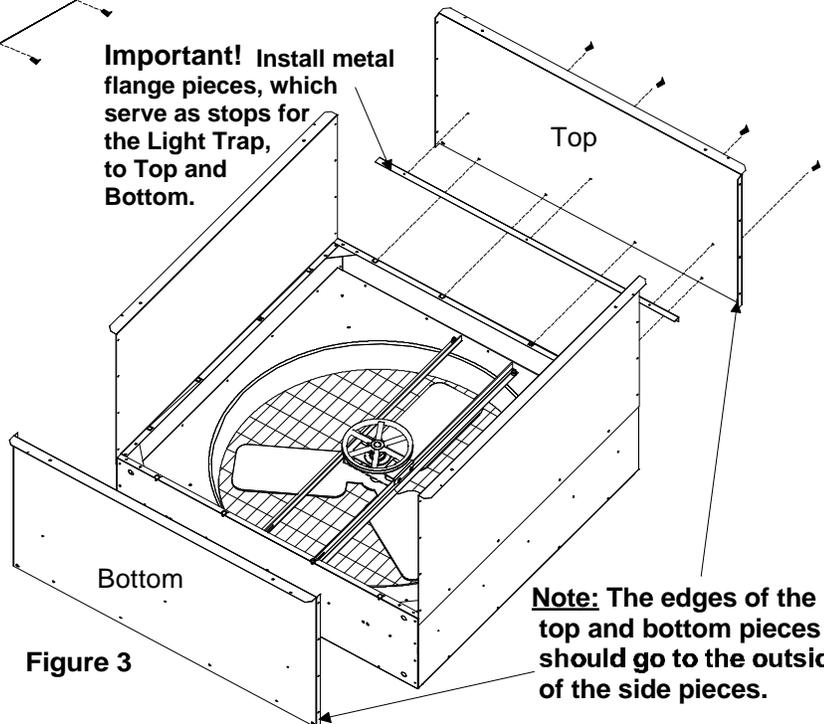
1. The Light Trap Adapter consists of a galvanized steel top, bottom, and two side pieces which must be attached to the fan. Lay fan flat on ground, blade side facing down.
2. Remove screen by bending retainer clips as open as possible to keep the clips from interfering in later steps. To bend the clips, push a punch or screwdriver through holes (See **Figure 1**).



Warning!
Be sure that the fan is not plugged into any power source when removing fan guard. Always double check power sources.

Note:
On the belt drive fan, be sure that the motor is positioned toward the bottom of the fan. See **Figure 2**.

Important! Install metal flange pieces, which serve as stops for the Light Trap, to Top and Bottom.



3. Add adapter sidewall pieces as shown above for a fan (**Figure 2**). You will use the 1/4 x 3/4 inch bolts and lock-nuts provided. On 36" fans built before 1/95, you may need to drill the middle hole on the sides. **Do not tighten nuts until step four.**
4. Attach the two metal stops to the Fan Top and Bottom, respectively. Then add the Top and Bottom adapter pieces to the assembly. (See **Figure 3**)

Note: Tighten all nuts after all pieces are loosely mounted to the fan housing.

Note: The edges of the top and bottom pieces should go to the outside of the side pieces.

← Instructions Continued On Back

5. Connect sides with 1/4 x 3/8 inch bolts provided. (See **Figure 4**)

Motor Pulley Replacement

1. Remove the fan belt. (Insert a screwdriver between the motor pulley and the belt while rotating the motor pulley).
2. Use an allen wrench to loosen the set screw on the motor pulley and remove the pulley from the motor shaft.
3. Insert the new pulley onto the motor shaft. Shift the pulley position on the shaft until the motor pulley is in alignment with the fan pulley. Use a straightedge held against the fan pulley to gauge the correct position of the motor pulley.
4. With the motor pulley correctly positioned, tighten the set screw. Recommended torque of the set screw is 110 In. Lbs. Min.
5. Replace the fan belt according to the following steps.
 - a. Turn belt with tabs to the inside.
 - b. Determine the direction of the drive rotation.
 - c. Align belt directional arrow (←) with drive rotation.
 - d. Fit belt over motor pulley.
 - e. Roll belt onto fan pulley by turning the drive slowly.
 - f. If belt is too loose or too tight, remove or add links, respectively, and repeat steps a-e.

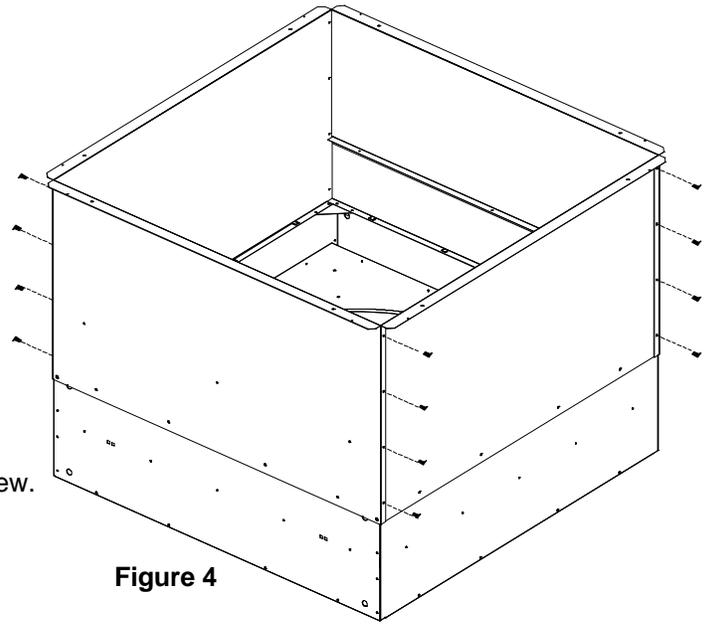


Figure 4

Light Trap Assembly And Installation

Assemble the Light Trap Extrusions according to separate instructions which are included with the Light Trap Extrusions. Insert the assembled Light Trap Extrusions into the adapter as shown in **Figure 5**. Some force may be needed to push the Light Trap into the adapter. Slide the Light Trap until the stops are encountered.

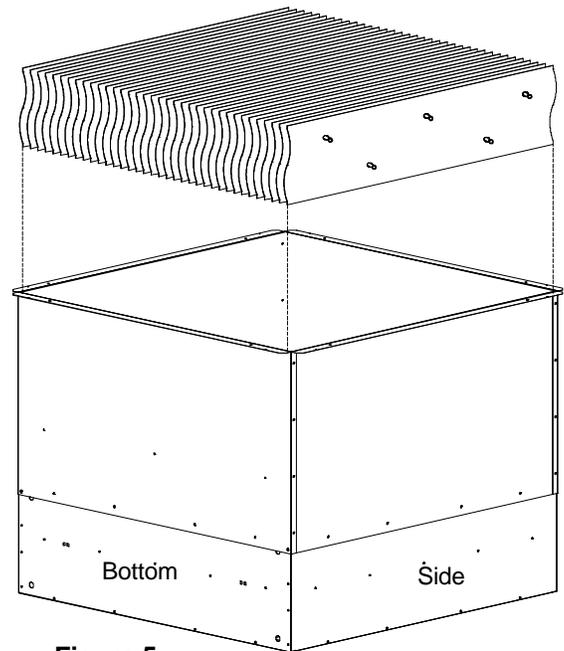


Figure 5

Fan Installation

1. Cut rough opening in wall. (Minimum dimensions)
 - a. 48" fans -- 54 3/4" horizontal X 55 3/4" vertical
 - b. 36" fans -- 42 3/4" horizontal X 43 3/4" vertical
 - c. 24" fans -- 30 3/4" horizontal X 31 3/4" vertical
2. Place fan through opening blade end first.
3. Slide fan through opening until the flange is against wall. (See **Figure 6**).
4. Secure fan to wall with wood screws.
5. Install shutter. Shutter can be either inlet or exhaust. (Note: Do not replace mesh screen).
6. Connect power to fan.
7. Installation complete.

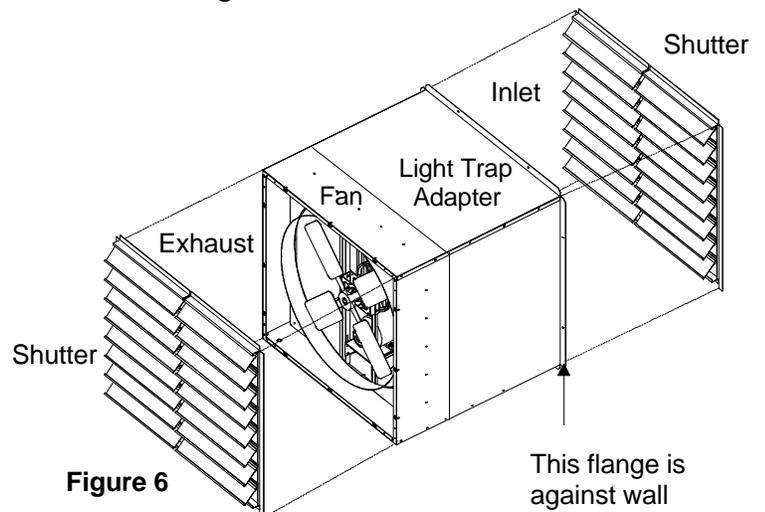


Figure 6

Other Products

Check out Hired-Hand's new 7 x 44 and 54 x 54 Light Trap Inlets.