

IMPORTANT INSTRUCTIONS - OPERATING MANUAL

Models: ASLC50, ASLC50FL
ASLC70, ASF70



Exhaust Fan

READ AND SAVE THESE INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.

GENERAL SAFETY INFORMATION

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to person, including the following:

1. Read all instructions before installing or using exhaust fan.
2. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
3. Before servicing or cleaning the 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.
4. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-related 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 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.
6. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
7. Ducted fans must always be vented to the outdoors.
8. This unit must be grounded.
9. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
10. Acceptable for use over a bathtub or shower when installed in a GFCI protected branch circuit.
11. NEVER place a switch where it can be reached from a tub or shower.

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

WARNING: DO NOT USE IN KITCHENS

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

SAVE THESE INSTRUCTIONS

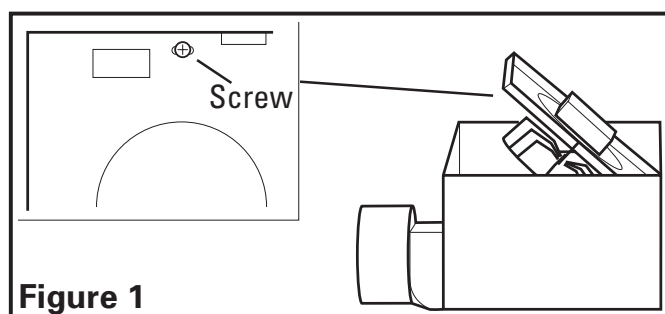
INSTALLATION INSTRUCTIONS

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

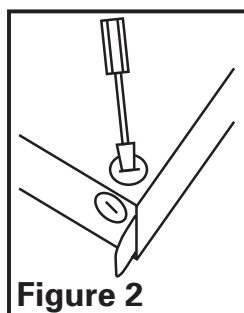
SECTION 1

Preparing the Exhaust Fan

1. Unpack fan from the carton and confirm that all pieces are present. In addition to the exhaust fan you should have:
 - 1 - Grill with Light Lens
 - 4 - Mounting Rails
 - 1 - Damper Assembly (attached)
 - 1 - Instruction/Safety Sheet
2. Remove the fan's venturi assembly, which is secured in place with one screw through the venturi (**Figure 1**). This is a captive screw and will stay installed in the venturi. Keep the venturi assembly and the grill in the carton until needed so they do not get damaged or lost.



3. Choose the location for your fan. To ensure the best air and sound performance, it is recommended that the length of ducting and the number of elbows be kept to a minimum, and that insulated hard ducting be used. Larger duct sizes will reduce noise and airflow restrictions. This fan will require at least 6" of clearance in the ceiling or wall, and will mount through drywall up to 3/4" thick. The fan can be mounted directly to the joist using the mounting tabs on the side of the housing or between 16" on center joists using the 4 provided mounting rails.
4. Select the most convenient electrical knockout and remove using a straight-blade screw driver (**Figure 2**).



SECTION 2

New Construction

1. **Mounting Rail Installation:** Install the rails on the housing and position the housing next to the joist. Using the gauge on the fan's housing, line up housing so that it will be flush with the finished ceiling. Secure the ends of the rails with screws or nails (not included) to the joists and slide the housing into the final position (**Figure 3**).

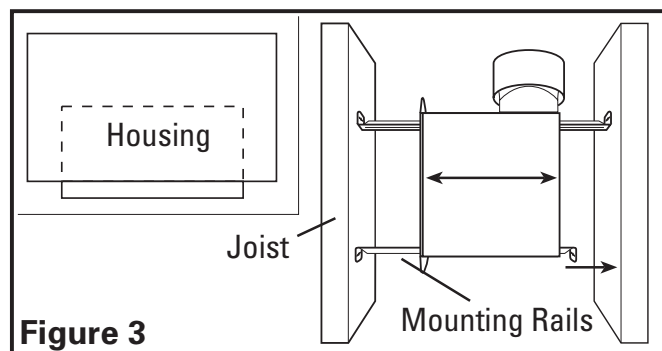


Figure 3

2. **Mounting Tab Installation:** Using the gauge on the fan's housing, line up housing so that it will be flush with the finished ceiling. Position the fan so that the tabs rest flat against the joist and secure with four nails (not provided) to ensure proper installation (**Figure 4**).

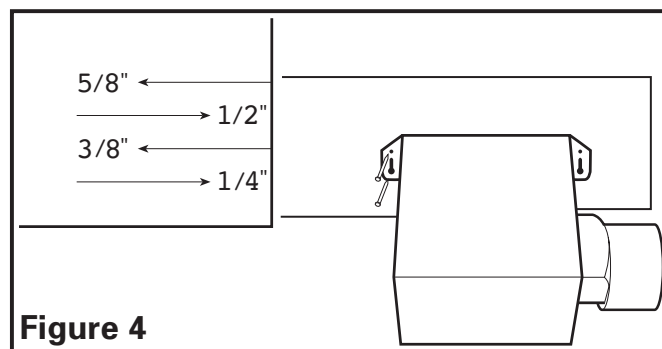


Figure 4

SECTION 3

Existing Construction

1. **Mounting Rail Installation:** Set housing in position between the joist and trace an outline onto the ceiling material (**Figure 5**). Set housing aside and cut opening, being careful not to cut or damage any electrical or other hidden utilities. Install the rails on the housing and position the housing in the previously cut hole so that it is flush with the finished ceiling. Secure the ends of the rails to the joists (**Figure 3**).

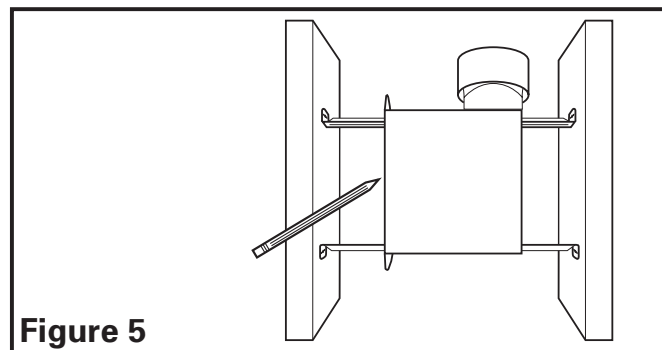


Figure 5

1. **Mounting Tab Installation:** Position housing against the joist and trace an outline of the housing onto the ceiling material (**Figure 6**). Set housing aside and cut opening, being careful not to cut or damage any electrical or other hidden utilities. Place housing next to the joist and insure that it is flush with the finished ceiling. Secure with four nails (not provided) to ensure proper installation (**Figure 4**).

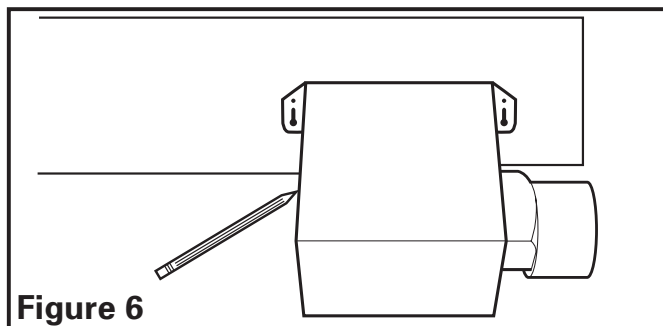


Figure 6

SECTION 4

Ducting

CAUTION: ALL DUCTING MUST COMPLY WITH LOCAL AND NATIONAL BUILDING CODES.

1. Connect the ducting to the fan's duct collar (**Figure 7**). Secure in place using tape or screw clamp. Always duct the fan to the outside through a wall or roof cap.

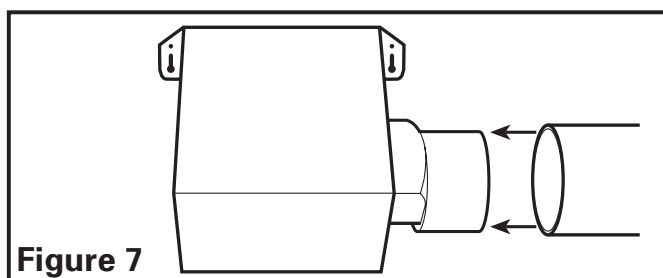


Figure 7

NOTE: If damper detaches from unit, reattach by snapping the collar back onto the unit. It is designed to only fit one way.

SECTION 5

Wiring

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE STARTING INSTALLATION.

CAUTION: ALL ELECTRICAL CONNECTIONS MUST BE MADE IN ACCORDANCE WITH LOCAL CODES, ORDINANCES, OR NATIONAL ELECTRICAL CODE. IF YOU ARE UNFAMILIAR WITH METHODS OF INSTALLING ELECTRICAL WIRING, SECURE THE SERVICES OF A QUALIFIED ELECTRICIAN.

1. **Wiring Fan/Light Independently:** Run wiring from an approved wall switch carrying the appropriate rating. One neutral (white), one ground (green or bare copper), and two hot (black lead connected to the switch). Secure the electrical wires to the housing with an approved electrical connector. Make sure you leave enough wiring in the box to make the connection to the fan's receptacle.
 - 1a. From where you have access to inside the fan's junction box, connect the one White wire from the house to both the White wire from the fan's light receptacle and the White wire from the fan's exhaust receptacle. Connect the first Black wire from the wall switch to the Black wire from the fan's light receptacle. Connect the second Black wire from the house to the fan's exhaust receptacle. Connect the ground wire from the house to the Green wire from the fan's grounding screw (**Figure 8**). Use approved methods for all connections.

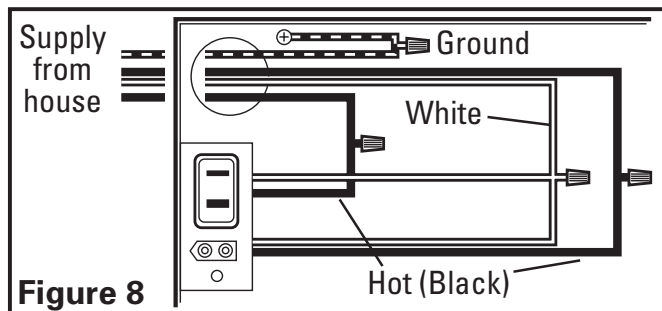


Figure 8

2. **Wiring Fan/Light together:** Run wiring from an approved wall switch carrying the appropriate rating. One neutral (white), one ground (green or bare copper), and one hot (black lead connected to the switch). Secure the electrical wires to the housing with an approved electrical connector. Make sure you leave enough wiring in the box to make the connection to the fan's receptacle.
 - 2a. From where you have access to inside the fan's junction box, connect the one White wire from the house to both the White wire from the fan's light receptacle and the White wire from the fan's exhaust receptacle. Connect the Black wire from the wall switch to both the Black wire from the fan's light receptacle and the Black wire from the fan's exhaust receptacle. Connect the ground wire from the house to the Green wire from the fan's grounding screw (**Figure 9**). Use approved methods for all connections.

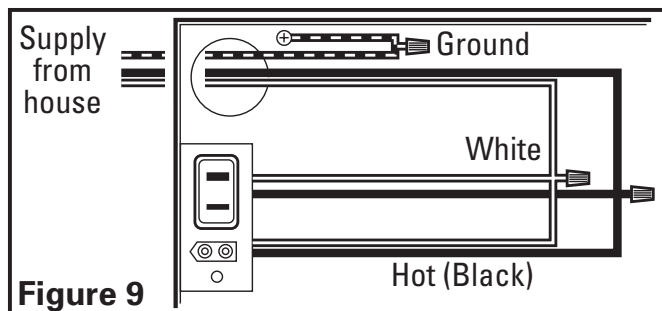


Figure 9

SECTION 6

Completing the Installation

1. Reinstall the fan's venturi by holding it at approximately a 45 degree angle, hook the two tabs on the venturi into the slots on the housing and secure in place by tightening the venturi screw. Rotate the blower wheel by hand to ensure it spins freely. Now plug the fan motor into the receptacle (**Figure 10**).

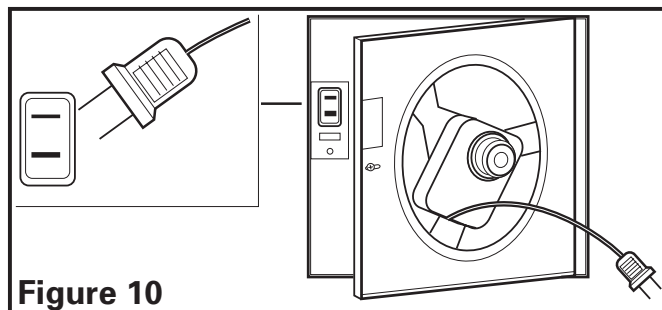


Figure 10

2. Install the grill/lens/light reflector, by first removing the lens from the grill (there are two tabs on either side that hold the lens in place). Then remove the acorn nut and the lock washer

which are installed on the reflector mounting bolt in the fan housing. Adjust the height of the reflector mounting bolt so that the grill will be tight up against the finished ceiling and less than 1/4" of the reflector mounting bolt protrudes through the reflector. Secure the reflector bolt's position by tightening the factory installed nut against the motor clip (**Figure 11**).

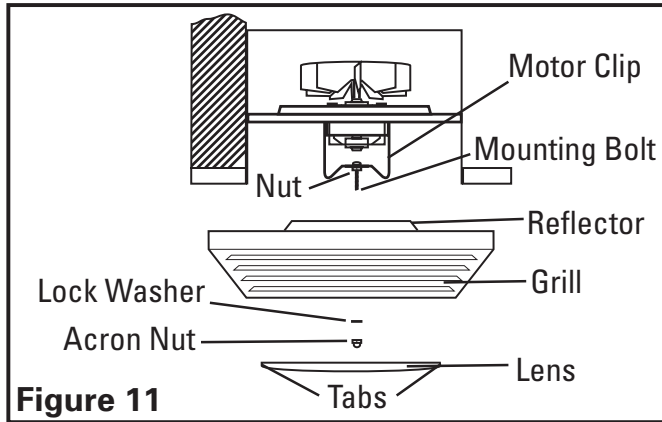


Figure 11

CAUTION: FAILURE TO SECURE THE REFLECTOR BOLT MAY RESULT IN A RATTLING OR HUMMING NOISE.

- After the reflector bolt is secure, raise the grill/reflector up into position, and plug the reflector into the appropriate receptacle. Secure the assembly to the reflector bolt using the acorn nut and lock washer. Install the appropriate bulb (not included) specific to your model:

ASLC50/ASLC70: 100 watt maximum, type A19 medium base incandescent bulb.

ASLC50FL: 13 watt maximum, 2 pin quad, PL-C compact fluorescent bulb.

ASF70: 26 watt maximum, triple 4 pin PL fluorescent bulb.

Reinstall the lens into the grill (**Figure 12**).

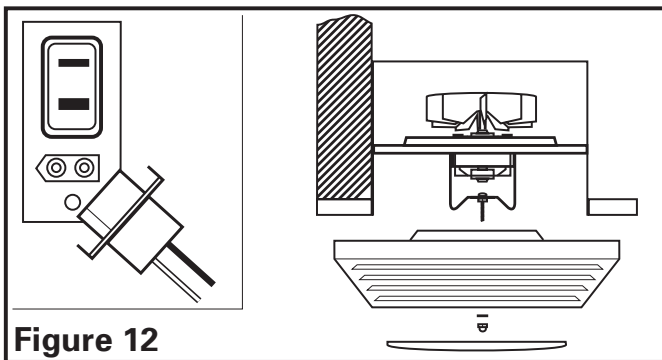


Figure 12

- Restore power and test your installation.

SECTION 7

Use and Care

CAUTION: MAKE SURE POWER IS SWITCHED OFF AT SERVICE PANEL BEFORE SERVICING THE UNIT.

- Cleaning the Grill:** Remove grill and use a mild detergent, such as dishwashing liquid, and dry with a soft cloth. NEVER USE ANY ABRASIVE PADS OR SCOURING POWDERS. Completely dry grill before reinstalling. Refer to instructions in **Section 6 Completing the Installation**, to reinstall grill.
- Cleaning the Fan Assembly:** Unplug the motor cord and light cord from receptacles and loosen the venturi screw to remove the venturi from the unit. Wipe all parts with a dry cloth or gently vacuum the fan. NEVER IMMERSE ELECTRICAL PARTS IN WATER. Refer to instructions in **Section 6 Completing the Installation**, to reinstall venturi.

CAUTION: ALLOW BULB TO COOL BEFORE REPLACING.

- Changing the Light Bulb:** Disconnect power to the unit. Remove the light lens by squeezing at the tabs and pulling down (**Figure 13**). Remove light bulb and refer to instructions in **Section 6 Completing the Installation**, to complete the light bulb change and installation of light lens.

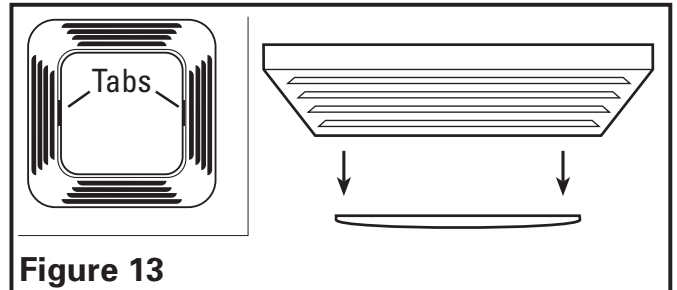


Figure 13