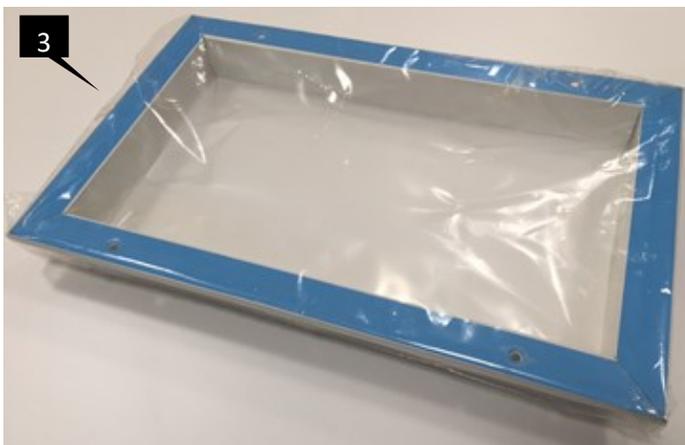
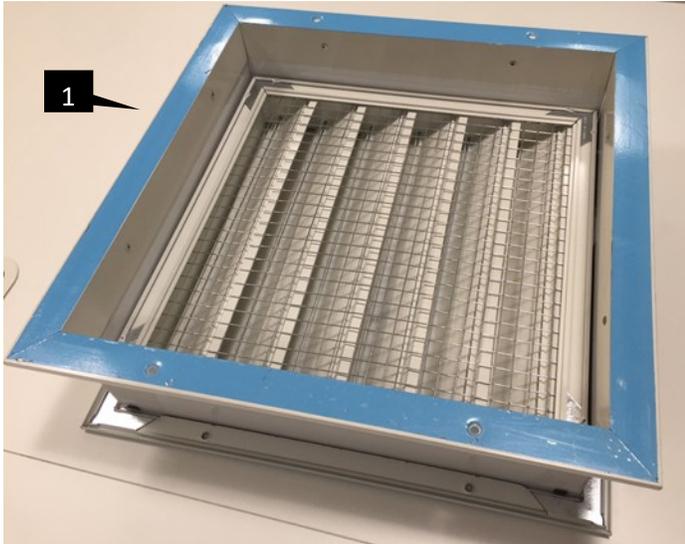


# Garage Ventilation

## Installation Instructions



Parts List *	Quantity
1 Exterior Louver & Frame Kit 14 in. x 14 in. w/ Fasteners (Fastener shown as 1a)	(1)
2 Louver 14 in. x 8 in. w/ Fasteners (Fastener shown as 1a)	(1)
3 Interior Trim 14 in. x 8 in. w/ Fasteners (Fastener shown as 1a)	(1)
4 Sealant (Not Provided) (Order Separately)	
5 Stainless Steel Fasteners (Not Provided Source Locally)	
a. #8 x 1 in. Stainless Steel Machine Screw	
b. #8 Stainless Steel Lock Washer	
c. #8-32 Stainless Steel Machine Screw Nut	

### Additional Materials and Tools

1	Screw Gun with Phillips #2 Screw Drive Bit
2	Saber or Reciprocating Saw
3	Angle Grinder w/Diamond Masonry Blade and Metal Cut-Off Blade
4	Caulking Gun
5	Level
6	3/16 in. Drill Bit
7	Pencil
8	Permanent Marker
9	Utility Knife
10	Safety Equipment

\*Components shown not included in all kits, see label on box.



# **WARNING**



**Do not proceed with the installation until you have read the entire instructions, including these warnings. (Use of materials or methods not authorized by Solatube International will result in an invalid warranty.)**

Solatube International, Inc. (seller) assumes no responsibility or obligation whatsoever for the failure of an architect, contractor, installer, or building owner to comply with all applicable laws, ordinances, building codes, electrical codes, energy codes, fire and safety codes and requirements, roof warranties and adequate safety precautions. Installation of this product should be attempted only by individuals skilled in the use of the tools and equipment necessary for installation. Protect yourself and all persons and property during installation. If you have any doubt concerning your competence or expertise, consult a qualified expert before proceeding.



## **Install at your own risk!**

Solatube product installations may be dangerous and include the potential for death, personal injury and property damage. The hazardous conditions include but are not limited to the following:

- Solatube Daylighting Systems, Solar Star products, and Whole House Fan ventilation systems may have sharp edges. Always wear leather or canvas gloves while handling and installing products.
- Solatube product installations require climbing and working at dangerous heights, including on ladders, scaffolding, roofs and in attic spaces. Risk of death, personal injury and property damage may result from a fall, or from falling objects. Use extreme caution to minimize risk of accidental injury, including, but not limited to the following procedures:
  - Clear area below your work space of all people, animals and other items.
  - Avoid working on surfaces that are slippery or wet.
  - Use foot-wear with excellent traction.
  - Use only strong, well supported ladders.
  - Work only in calm dry weather.
  - When in the attic, ensure that your weight is supported at all times with structurally sound framing; drywall material is not designed to carry a person's weight.
- To reduce the risk of fire, electric shock, and personal injury, basic safety precautions should always be followed when using electric tools, including always wearing safety goggles or other suitable eye protection, and ensuring work area is clear of all electrical wires, gas pipes, water pipes, and other obstacles.
- When working in the attic or other dusty areas, use of a mask or respirator is recommended to avoid lung irritation. Attic spaces may be dark, confined, and subject to extreme temperatures. Beware of sharp protruding objects. Do not attempt installation without having someone within range of your voice or close enough to come to your aid if necessary.
- Solatube products are not designed to withstand the weight of a person, tools or other objects. Walking or placing objects on the system could cause personal injury and property damage. If the product is damaged, the structural capacity may be weakened; therefore the system should be repaired immediately. For safe installation and use, do not deviate from these installation instructions.



## **Whole House Fan Installation Tips**

These instructions are a step-by-step guide for the installation of Solatube Whole House Fan ventilation products in the following conditions.

**PLEASE READ AND SAVE THESE INSTRUCTIONS**

## **WARNING**

**To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.**

### **To Reduce The Risk Of Fire, Electric Shock, Or Injury To Persons, Observe The Following:**

- Use this unit only in the manner intended by the manufacturer. If you have questions, please contact your Solatube International representative.
- Before servicing or cleaning 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.

### **Caution**

- For General Ventilation Use Only. Do Not Use To Exhaust Hazardous or Explosive Materials and Vapors.
- Installation work and electrical wiring must be done by qualified persons (s) in accordance with all applicable codes and standards, including fire rated construction.
- 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 guidelines and safety standards such as those published by the National Fire Protections Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and local code authorities.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) - Protection branch circuit.

For the most current Installation Instructions, please visit [www.solatube.com/instructions](http://www.solatube.com/instructions)

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## Overview

These instructions will cover multiple solutions for garage intake ventilation. It is best to inspect your garage and determine the best solution before starting.

### Locate Desired Placement of the Garage Vent

**NOTE:** Please ensure that there is adequate net free ventilation for the Solatube Garage Vent. If no existing intake ventilation is present, it is best to add at least 1 square foot of net free intake ventilation.

**WARNING:** Any and All Electrical Connections Should Only be Performed By A Licensed Electrician.

**Avoid back drafting of combustion appliances (i.e. gas fired water heaters and gas fired furnaces) by ensuring adequate ventilation is available and properly maintained.**

#### Section 1:

##### Garage Door Intake Vents



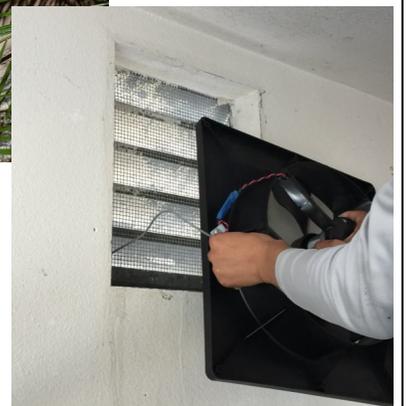
#### Section 2:

##### Side Door Intake Vents (Solid Core Door)



#### Section 3:

##### Garage Wall Intake Vent & Garage Wall Exhaust Vent w/ Solar Star IM 1500

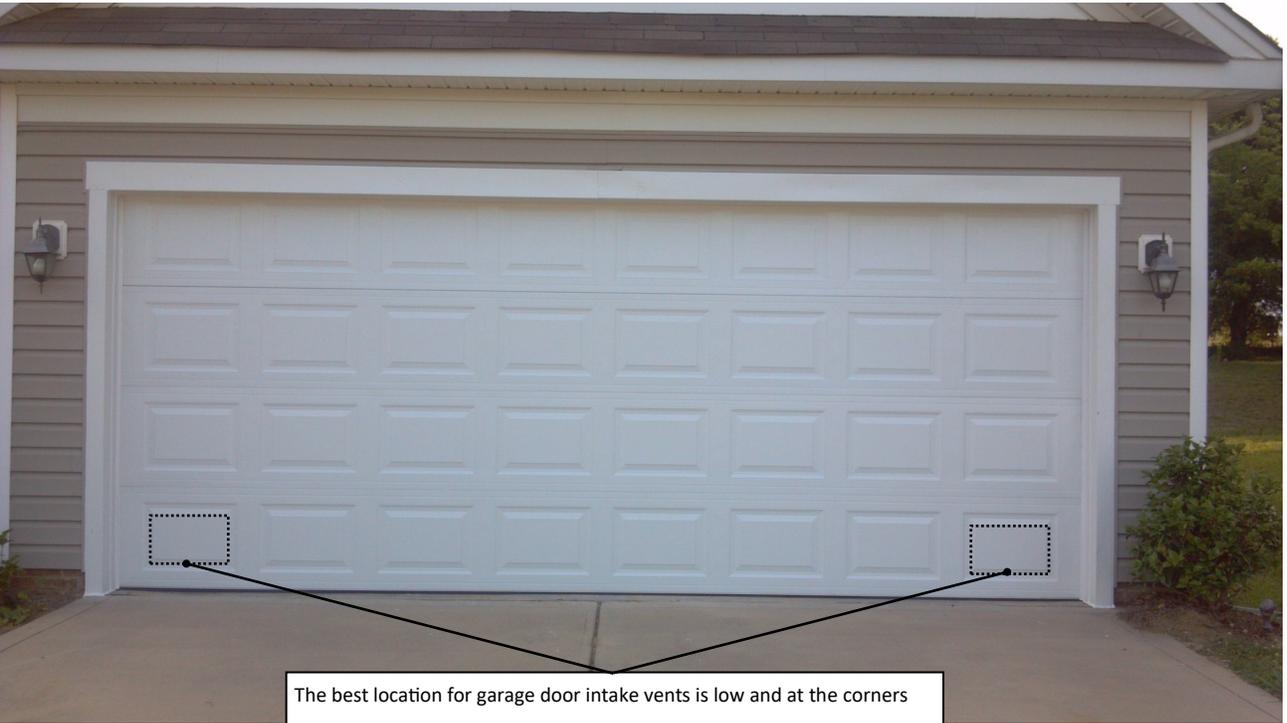


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# Section 1 Garage Door

1

Garage Door Intake Vent Layout



2

Trace Vent onto Garage Door  
Use a level for proper vent positioning



3

Cut Opening into Garage Door  
Use an angle grinder with a metal cut-off blade



## CAUTION

Using an angle grinder will create sparks. Clear area of all flammable liquids and combustible materials. Ensure that a means of firestop (i.e. Fire Extinguisher) is readily available.

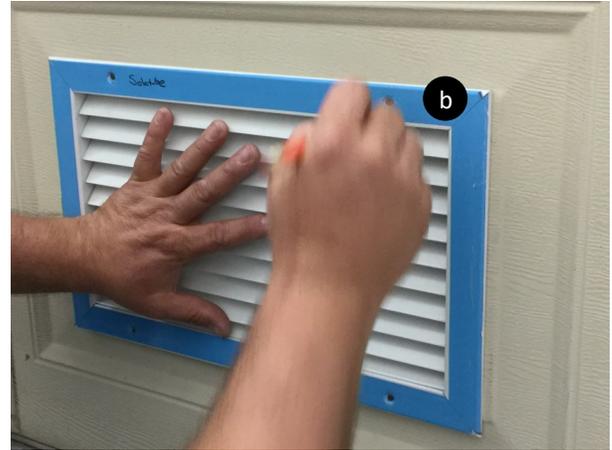


4

For the most current Installation Instructions, please visit [www.solatube.com/instructions](http://www.solatube.com/instructions)  
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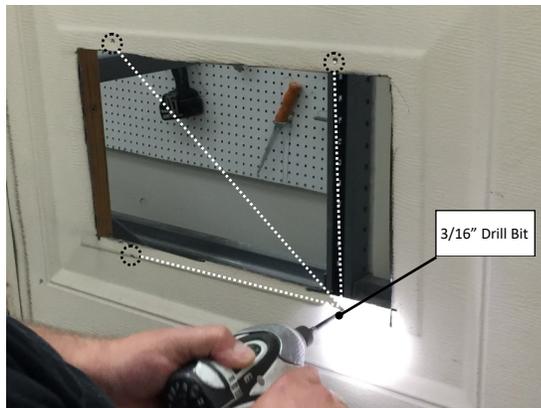
4

Insert Vent  
Insert Vent and mark fastening holes



5

Pre-Drill Marked Fastener Locations  
Use 3/16 in. drill bit



6

Apply Sealant  
Apply a bead of clear flexible exterior sealant to the backside of the vent. (Not Provided—Order Flex Seal P/N: 700070)



7

Insert Fasteners  
Use #8-32 x 1 in. stainless steel machine screw (Not Provided)  
Remove protective liner.



8

Apply Washer and Screw Nut  
Use #8 stainless steel lock washer and #8-32 stainless steel machine screw nut to fasten (Not Provided)



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9

Remove Protective Liner  
Paint screw heads if necessary



## Section 2 Side Door Intake Vents (Solid Core Door)

1

Side Door Intake Vent Layout



The best location for a side door intake vent is low and in the center

2

Trace Vent Back onto Door  
Use a level for proper vent positioning



3

Drill Pilot Holes  
Drill pilot holes in each corner of the traced vent



4

Drill Holes  
Using a 7/8 in. paddle bit drill half way through the door at each of the pre-drilled locations. Use pre-drilled holes on opposite side of door to align paddle bit and finish drilling through door. This is done to prevent blow-out and damage to door.



6

For the most current Installation Instructions, please visit [www.solatube.com/instructions](http://www.solatube.com/instructions)  
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5

**Cut Door Opening**

Use a reciprocating saw and cut just outside of traced line



6

**Clean Up Edges of Opening**



7

**Place Vent Back into Interior Side of Opening**



8

**Fasten Vent Back to Door**

Use provided screw to fasten vent back



9

**Apply Sealant**

Apply a bead of clear flexible exterior sealant to the backside of the vent (Not Provided—Order Flex Seal P/N: 700070)



10

**Fasten Vent**

Use provided screws to fasten  
Remove protective liner



## Section 3 Gable Vent With Solar Star IM 1500

1

### Side Wall Intake Vent & Side Wall Exhaust Vent with Solar Star IM 1500

The best location for side wall intake ventilation is low and without obstructions.

If installing an exhaust vent with the Solar Star IM 1500, the best location is high in the gable or high on the side wall.



Siding options can vary. If installing a vent into vinyl, wood, composite, or fiber cement siding it may be necessary to install a mounting plate to ensure a water-proof seal is maintained. Follow all best practices and all building code requirements. Below are examples of mounting plates.



Mounting Plate



Mounting Plate



Mounting Plate

2

### Cut Opening For Side Wall Vent

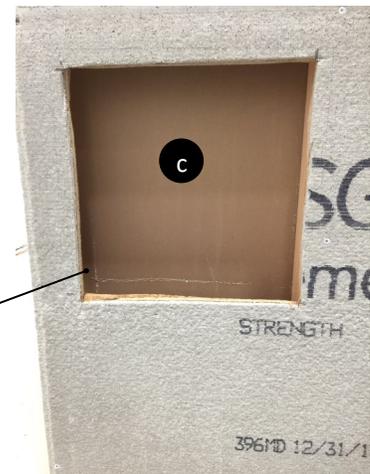
The following instructions simulate a stucco exterior wall.



Trace interior trim onto the outside wall



Use angle grinder to cut opening



For the most current Installation Instructions, please visit [www.solatube.com/instructions](http://www.solatube.com/instructions)

3

**Trace Interior Trim**

Place interior trim into opening and drill hole through each corner of traced line



4

**Trace Interior Trim onto Inside Wall**

Use drilled holes to align interior trim



5

**Cut Marked Drywall Interior Opening**

Use keyhole saw to cut opening



6

**Insert Interior Trim into Drywall and Fasten**

Use provided screw to fasten interior trim



7

**Apply Sealant to Vent**

Apply a bead of clear flexible exterior sealant to the backside of the vent. (Not Provided—Order Flex Seal P/N: 700070)



8

**Fasten Vent to Exterior Wall**

Use provided screw to fasten vent



The Following Steps are intended for Installation of Solar Star IM 1500 Only

9

Fasten IM 1500 Fan to Interior Trim  
Remove protective liner.



10

IM 1500 Fasteners Will Fasten Just Outside of Interior Trim  
Fastening holes on the IM 1500 unit are designed to fit 16 in.  
on-center framing.



# Notes



Solatube International, Inc.,  
2210 Oak Ridge Way, Vista CA 92081-8341  
Phone (800) 966-7652 • Fax (760) 599-5181  
[www.solatube.com](http://www.solatube.com) Part No. 952170 v1.0