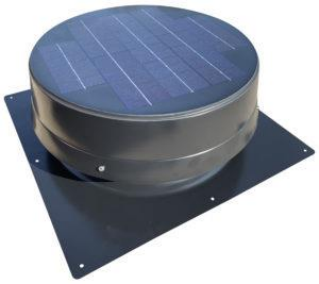
Remington Solar "Builder Series" Solar Attic Fans Installation Guide

Message from our president…

Congratulations! You're in the club. You've seen the light. You own the best solar attic fan sold in the United States. While we look forward to cooling your attic, thus saving you on utility bills, there are other advantages to the Remington Solar attic fan as well. Do you have any idea how much wear and tear on your furnace happens in a hot harsh environment? Do you know what your expensive insulation does in 150 degree heat over the years? You made a great decision in your purchase, so please don't hesitate to contact us if you need help in any way.

Murray Smith
President – Remington Solar
214-257-8300

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Model # SF-BLD20-BLK
Roof mount



Model #SF-BLD30-BLK
Roof mount



Model #SF-BLD40-BLK
Roof mount

Tools Required

Reciprocating Saw Marking Pen Measuring Tape String
Razor Knife Drill (for screws) Caulking Gun (Silicone sealant)
6, 6# 1½ Phillips Head Screwdriver

NOTE: Please go to **http://remingtonsolar.com/how-to-install-your-remington-solar-attic-fan/** (or go to RemingtonSolar.com and look for the link How To Install Your Remington Solar Attic Fan) to watch a brief video of an actual installation.

Each model is a bit different

SF-BLD20-BLK – This is a simple encased panel fan that flashes underneath the leading edge of your shingles. This unit includes humidistat and thermostat. Make sure you remove the small plastic bag that has the small thermostat and humidistat (underneath the fan near the blade)
after installation. Also, clip the small plastic tie that will allow the thermostat to hang (approximately 2 feet) from the unit (to get an accurate attic temperature reading). Fan operates above 82 degrees

Fahrenheit. (26.7 degrees Celsius).

SF-BLD30-BLK – See installation instructions for **SF-BLD20-BLK**. However, this fan allows the solar power panel to tilt. Angle the tilt to maximize the sun exposure by tilting towards a south or west position. Typically, steep pitched roofs will require higher tilt. This fan is also suitable for houses that face south, so the fan needs to be on the back of the house, but tilted towards the south.

SF-BLD40-BLK – This fan is simply a more powerful version of the **SF-BLD25-BLK** fan.

Before You Start

http://remingtonsolar.com/product-manuals/

NOTE: When you first unpack your solar attic fan and place it in the sunlight, it may not immediately turn on. Check the following:

1. Determine if the outside temperature is 82 degrees Fahrenheit. The built-in thermostat will prevent the unit from starting below 82 degrees.

2. Make sure the thermostat/humidistat (blue plastic piece) wiring is connected snugly. The thermostat/humidistat is connected by a simple three pronged plug that should be connected when your solar attic fan arrives.

3. Make sure the unit is getting sun with no clouds. Sometimes the unit will spin slowly or not at all with thick cloud cover.

4. If it is cool outside and you want to test your fan, you may cup the thermostat in your hand and breathe heavily on it. That will typically kick on the fan.

Handy Tips

1. Choose the location carefully to ensure optimal sun exposure through the day. **Check for any shade on the roof created by trees, chimney, or satellite dish.**

2. Measure twice and cut once. HINT: You can poke a nail between your rafters and joyces from underneath, then create a 14 1/2 “ circle on top, to make sure you don’t cut through a rafter or joyce.

3. Center the Solar Attic Fan approximately 2-5 feet away from the roof ridge to facilitate good circulation. **NOTE: using Remington Solar attic fans with ridge vents are fine. We recommend putting your fan 5 feet down from your ridge vent. Also, close any vent within 8-10 feet of your solar fan. (Cardboard underneath is an easy solution)**

4. Use a high quality silicone sealant to ensure a good waterproof seal

INSTALLATION

Step1
Choose a location for your Remington Solar Attic Fan on the south of the roof, considering potential problems like tree, chimney etc. They may shade the solar panel during certain times of the day, reducing run time.

If a southern or western exposure is not possible, the fan can be installed on any other exposure and the solar panel can be adjusted to capture maximum sunlight. Note: The Solar Attic Fan must be installed between roof rafters. However, if you want to retrofit an existing turbine (Whirlybird) or electric fan, you may do so. Just enlarge the hole if necessary, being careful not to cut through a rafter.

Step 2
Using either a string or template, create a 14 1/2 inch diameter circle onto the roof shingles.

Note: Roof rafters are generally 16" or 24" on center. (Stick a nail from underneath out to the roof, then find the nail, so you can see the center.)

Step 3
The Solar Attic Fan must be installed between roof rafters. Do not cut through any framing member. With a reciprocating saw, cut the diameter of the hole.

Step 4
Remove any roofing nails in the area where the base will be slid under the shingles.

Step 5
Lay a bead of Silicone Sealant around the base of the flashing.

Step 6
Slide the flashing underneath the tar paper and shingles. Adjust the flashing up until the shingles come into contact with the raised portion of the flashing. The bottom side of the flashing will be on top of the shingles.

Step 7
Position the four screws around the flashing. Two screws go on either side, and the remaining two go on the top and bottom.

Step 8
Lay a bead of Silicone Sealant along the edge of the shaft base to insure a waterproof seal

Step 9
Use the screws and nuts to fasten the angle of the panel (South or south west is typically the optimal angle, however, we prefer flat to the earth since you will need more power in summer months.

110V Hybrid Adapter Installation (For running the fan when the sun sets and it's still hot)

NOTE: The 110V Hybrid Adapter can easily be installed any time after fan installation.

Video installation guide at https://remingtonsolar.com/product-manuals/

110V Hybrid Adapter for Remington Solar Attic Fans.

INSTALLATION INSTRUCTIONS

Please note the AC/DC 110V Adapter for Solar Fans must be plugged into an outlet NOT a switch and to work properly. While using the adapter, it must be plugged in at all times or the solar fan may not run properly.

AC VOLTAGE: 90V-265V

1. Notice your adapter has 3 cords. Plug the power cord into your wall socket (power) FIRST.
2. Underneath your Remington Solar attic fan, you will see a larger wire that is plugged into itself. Unplug that wire. You will then have 2 wires with plug ends.
3. Plug in the corresponding wires from the adapter into each plug wires underneath the fan.
4. If you choose to not use the adapter at any point please unplug the adapter from the outlet and disconnect wires from the solar panel and motor on the fan. Reconnect the solar panel and motor plugs together so your fan will run on solar power only.



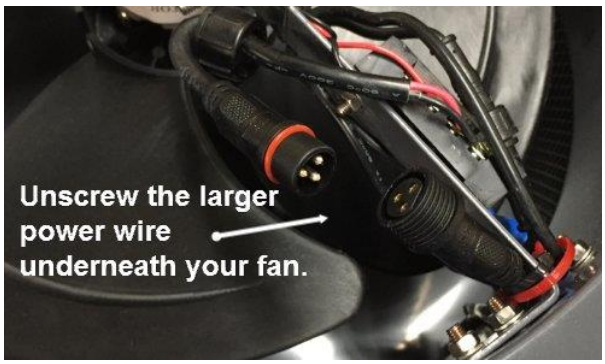
Your fan will now run without sun, but only if the temperature is above 80 degrees.

(NOTE: A safety feature has been added into your 110V adapter in case you have a power outage. An outage for a short period of time should not affect your 110V adapter)

ADDITIONAL VIDEO INSTRUCTIONS:
https://remingtonsolar.com/wp-content/uploads/110vadapter-Remington-Solar.mp4

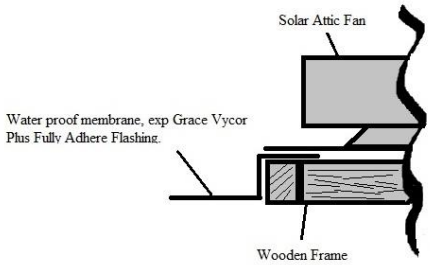
SOLAR ATTIC FAN WITHOUT 110V AC/DC ADAPTER

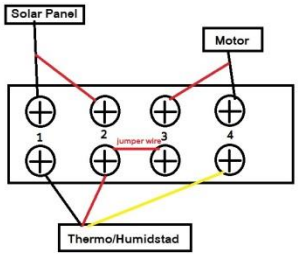
If you choose not to use the adapter, please disconnect the solar panel cable and the motor cable from the AC/DC adapter cables. Connect the solar panel cable and motor cable together so your fan will run on solar power only. Unplug adapter from the wall and store away for future use.



CURB MOUNT ADAPTER (OPTIONAL)

Curb mounts are good for flat roofs or tile roofs. You can build a frame out of 2x4's, then flash over the 2x4's. Then put the Remington Solar curb mount adapter on top of the flashed frame. Then mount your Remington Solar attic fan on top of the curb mount adapter. Then you have a waterproof seal.





You may not simply remove the thermostat or it will stop running. (Wiring diagram)

WARRANTY

Solar panel Life time limited warranty*
Housing: Life time limited warranty*
Motor : Life time limited warranty*

*The limited warranty from date of original purchase for manufacturing defects under normal and reasonable use, and subject to the maintenance requirements and installation guidelines set forth in the product instruction manual. This warranty is non-transferable. You must register your warranty online within 30 days from purchase.

What is Covered: Dealer warrants its product to be free from defects in material and workmanship when leaving the factory. Remington Solar will provide replacement of parts (not labor) for any defective component.

What is not Covered: Any type of damage to the product due to improper installation, maintenance, or failure to provide necessary and reasonable maintenance; any damage or injury caused by misuse and/or unreasonable use of the product; storage or Acts of God; Dealer will not honor any claims for damage to any products. **Note: Hail damage is covered by your homeowners policy.**

You must register your Remington Solar product within 30 days to activate warranty:
https://remingtonsolar.com/register-your-product/

Remington Solar, Inc – Corporate Mailing Address
5706 E. Mockingbird Ln, Suite 115-189
Dallas, TX 75206

Trouble Shooting Guide

Fan won't run

1. Check the temperature. Is it 80 degrees or hotter? Is it in the sun?
Cup the blue thermostat in your hands and warm it up by breathing on it. (Don't use a hair dryer!)

2. Check all the wiring in the junction box as per diagram above.

3. If fan is not turning at all, it's a hot day, and full sun. Faulty thermostat. Contact support@remingtonsolar.com for replacement.

Fan blades vibrate or rock, but doesn't run fast

1. The fan is working, but getting less than 7 watts of power. It's either early in the morning or dusk.

Fan blades turn but slowly

1. Is it full sun? Or cloudy?

2. If the fan is making a noise from the motor, then may be defective motor Contact support@remingtonsolar.com for replacement.

from the terminal box. (It simply pops off.) Remove the power wires (black and red) from each terminal using a phillips head screwdriver and thread them out the hole on the fan mounting plate. Secure wiring outside as you find a sunny place for the solar panel. You may use the mounting bracket by screwing directly down to your roof. Use roofing caulk to seal the screw to prevent water leak. Then adjust the angle to maximize sun angle. (Typically that would be flat to the earth or slightly angled towards southwest.)

If your roof angle is optimal to the sun, you may just want to mount your fan flat on your roof. If you have a fence or other stable structure that is in the sun, you may also mount to that.

