

# EASY SOLAR ATTIC FAN TROUBLESHOOTING GUIDE

HOWEVER, PLEASE CONTACT 214-862-1055, JOCELYN, AND WE WILL COMPLETE THE FINAL TROUBLESHOOTING WITH YOU PERSONALLY

## Solar Attic Fan Troubleshooting

Dear Remington Solar attic fan owner:

The Remington Solar attic fans are actually very simple mechanical/electrical devices.

More than likely, your fan is not running due to a simple loose wire (from shipping or installation) or a faulty thermostat, motor, or 110V adapter.

**NOTE:** While it's easy to skip steps or just say, "yeah, yeah, my wires are connected", please trust us because we talk to customers every day and we statistically know the issues, so please follow each step carefully.

**NOTE:** It is best to troubleshoot your fan on a sunny day so you will know how whether or not the solar part of your fan is working. A cloudy day may give you unreliable results.

**NOTE:** What is the temperature in your attic? Really, check! If your attic is below 80 degrees, your fan will not run. So don't be surprised when everything is hooked up, and it doesn't run. However, you can breathe on the thermostat like you're warming it up in your hands, and it will quickly activate the thermostat and turn on the fan if you have solar or the 110V adapter connected properly.

You will need to be able to access underneath your fan. You will notice a junction box where all of the electrical wires are connected. You can pop off the clear plastic front plate with your fingers. **See Fig A.**

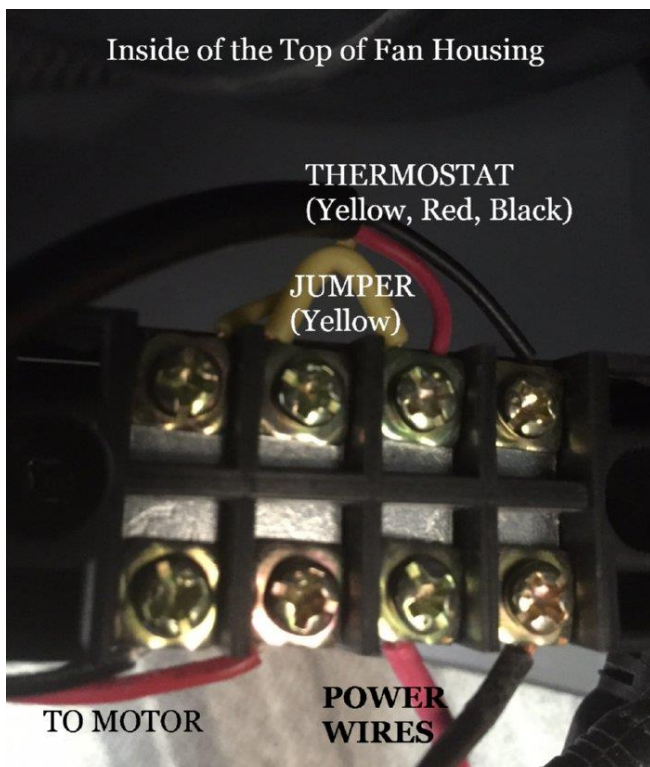
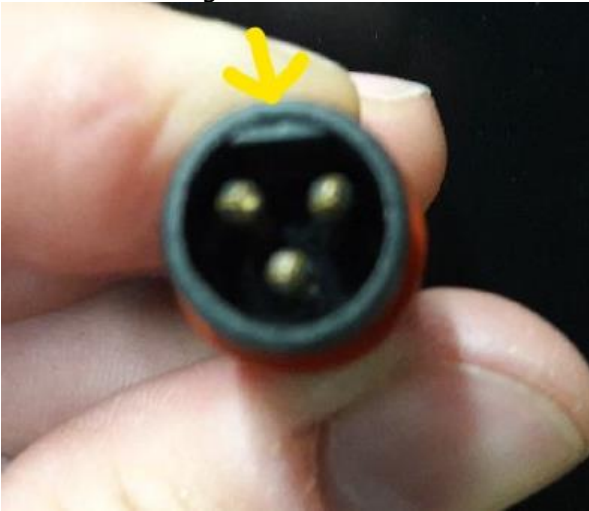


Fig. A

1. We get multiple phone calls from customers who have loose wires. Especially the thermostat wires that can come loose during installation. This simple check can save you lots of time and headaches. Check the wires on the junction box. They can become loose during installation causing the fan to stop working. Just tug on the wires a bit to make sure that they are securely fastened. (Notice that the thermostat has 3 wires. The yellow wire shares a terminal with a yellow jumper wire.)
2. Try running the fan on solar. Disconnect the fan from the 110v adapter and plug the fan back into itself. You will need to reconnect the power wires underneath the fan back into itself to complete the circuit. (If you simply unplug the 110V adapter from the wall, your fan will not run, even in the sun. So you need to reconnect the power wire underneath the fan.)
3. The little yellow jumper cable simply stays there, but also needs to be secure.

4. When you reconnect the 110V adapter to the fan (if you are using an adapter), there is a cable to motor that has a flat side in the plug. Make sure it matches up with the one on the adapter or the solar panel and wait about 5 seconds and the fan will turn on. NOTE: Sometimes the plug is difficult to see exactly how it plugs in. Look carefully on both ends to make sure it fits properly, or your fan will not run.

Fig. B



#### **Fan blades vibrate or rock but doesn't run fast**

The fan is working but getting less than 7 watts of power. It's either early in the morning or dusk. Power is trying to go to the fan, but there is not enough power to turn the motor. Wait until the day heats up, then check it.

#### **Fan blades turn but slowly**

Is it full sun? Or cloudy? Is the wind pushing it?

**Fan runs on solar** (bottom wires plugged into themselves), but does not run on 110V adapter

Bad adapter. Contact [support@remingtonsolar.com](mailto:support@remingtonsolar.com)

#### **Fan does not run on adapter or solar**

Check thermostat wires in junction box. If wires are connected, and fan still does not run, replace thermostat. Contact [support@remingtonsolar.com](mailto:support@remingtonsolar.com)

#### **Motor is making loud noise, there is no obstruction.**

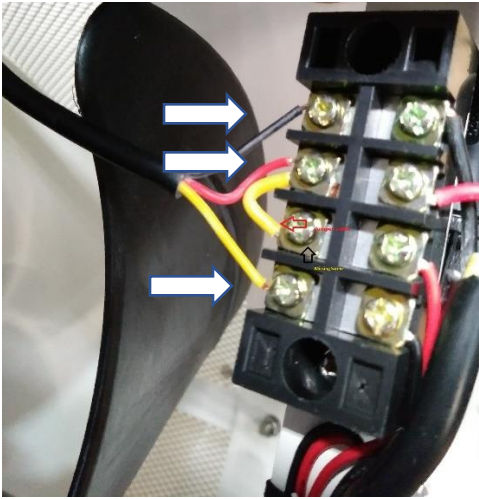
Need new motor. Contact [support@remingtonsolar.com](mailto:support@remingtonsolar.com)

#### **Motor is not running at all.**

Need thermostat, however, it is amazingly common when a thermostat is pulled out from the junction box during installation. A thermostat replacement will not solve the problem without a strong connection at the junction box.... particularly check the black ground wire. Unscrew each screw and check to make sure copper is touching each lead. (Leave the yellow jumper in place.)

Contact [support@remingtonsolar.com](mailto:support@remingtonsolar.com)

NOTE: If you have one of those inexpensive voltmeters, you can touch the leads (on a sunny day) to check power from the panel to the motor, etc. Again, this is a simple mechanism and many times problems can be solved by finding that loose wire.



Alternate view of junction box

**Replaced the thermostat and the fan still will not work.**

**Recheck the three wires going into the junction box for the thermostat.**

Possibly need new motor. Contact [support@remingtonsolar.com](mailto:support@remingtonsolar.com)