



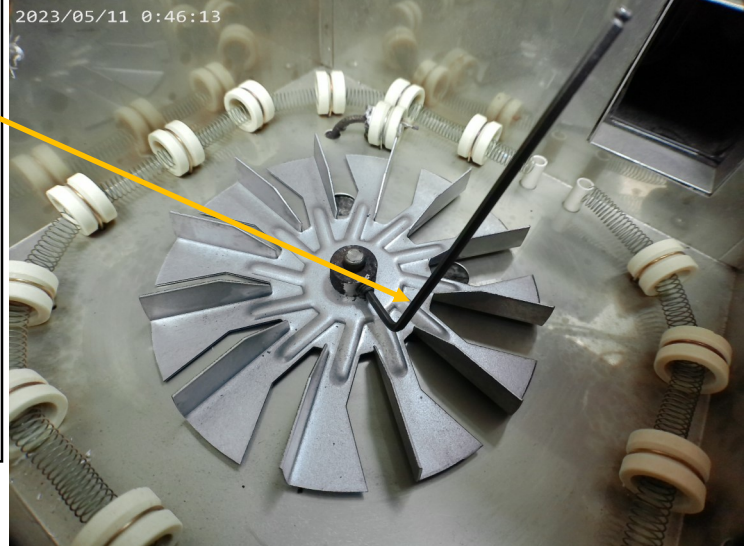
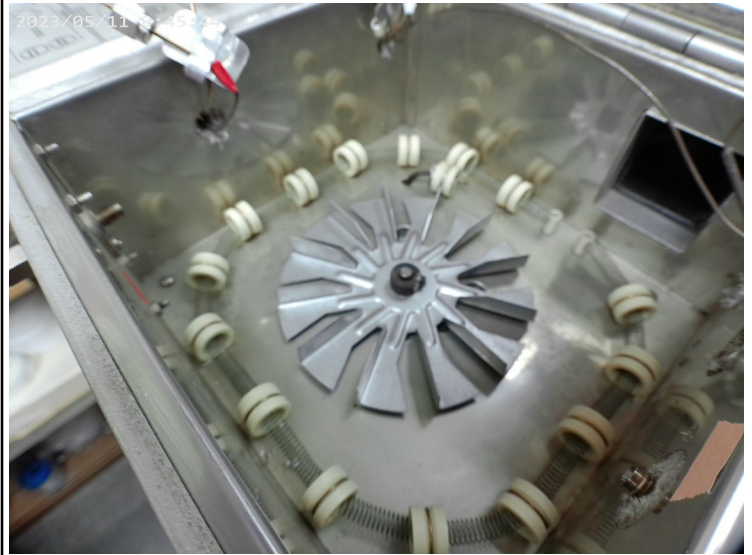
# Replacing the oven fan motor in SRI GCs

May 2024

If it is necessary to replace the oven fan motor in the SRI 8610C or 310C GCs you will need the kit containing a new fan motor, fan blade and shaft cooling fan. The kit is SRI part#8670-0651 for the 8610C GC size oven and #8670-0655 for the smaller 310C size column oven. Specify 115 or 230volts AC. As of May 2024 the price of the kit is \$478 ( subject to change ).

Remove all columns and tubing as much as possible from the column oven. Remove the metal grate over the fan blade. The grate is held in place by friction, so you just pull it up.

Use a 3/32" hex wrench to loosen the setscrew holding the fan blade onto the shaft of the motor.



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OvenFanMotor May2024



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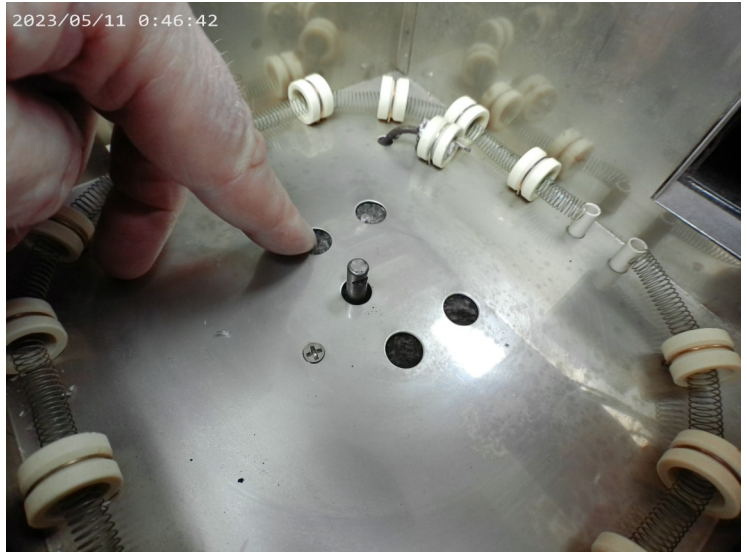
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If your GC was built after 2005 the holes to access the fan motor are already punched, but earlier GCs will require you to drill the holes in the bottom of the oven. The oven is made from stainless steel which is difficult to drill thru.

Use the template as a guide to locate the holes and use a center punch to make a small dimple so the drill bit will not wander when you first start the hole.

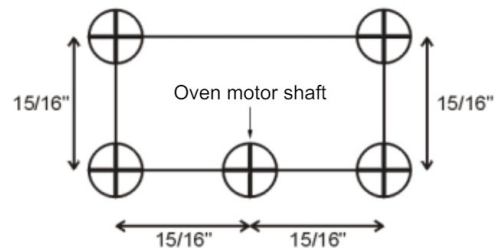
Start with a small size drill like a 1/8" ( 3mm ) and gradually increase the drill size until the holes

are .5" ( 12mm ) in diameter. If you use too large a drill bit at the beginning, the bit will catch on the metal and bend the bottom of the oven. Lubricate the drill bit with WD40 or some other kind of oil while drilling as this makes the drill cut smoother.



Replacing the Entire Oven Motor

1. Complete steps 1 and 2 on page 1.
2. You must drill 4 holes into the bottom of the oven. Measure 15/16" from the center of the oven motor shaft on each side, as shown in the diagram at right, then 15/16" up from the outer end of each horizontal segment. Or, you can use the diagram as a template; just center the bottom middle circle over the oven motor shaft. The picture below shows what the fan motor looks like underneath the column oven.



Center punch



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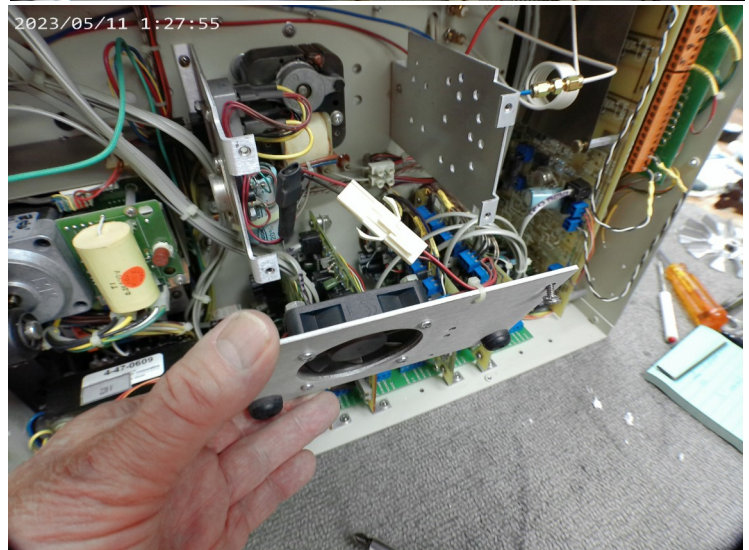
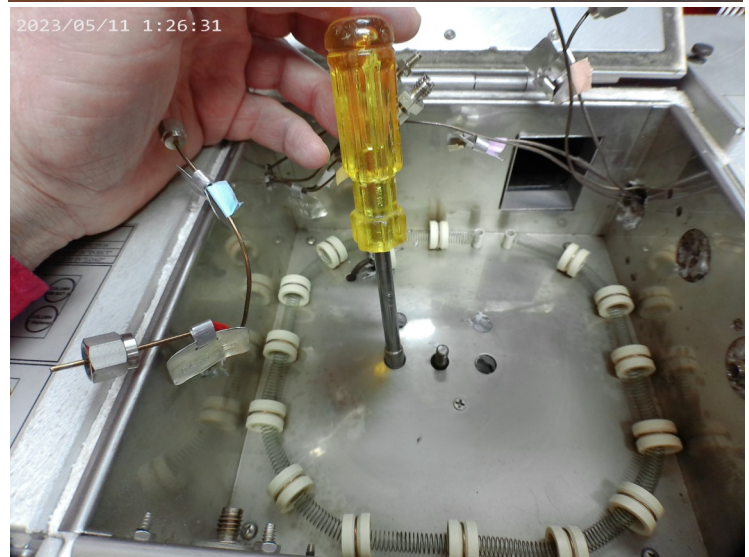
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Use a vacuum to clear the hole of any debris. If the holes have been pre-punched, you will have to dig a hole thru the white insulation to expose the screws.

Use a flat-blade screwdriver or a 1/4" nutdriver tool to loosen the screws.

Remove the interior cooling fan to get better access to the fan motor under the oven. There are 4 Phillips head screws holding the aluminum plate the interior cooling fan is mounted on.



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If its not too difficult, its also helpful to remove ( don't disconnect any of the wires ) the aluminum bracket as shown. The bracket is secured by two Phillips head screws from the top deck of the chassis This makes it easier to access the motor.

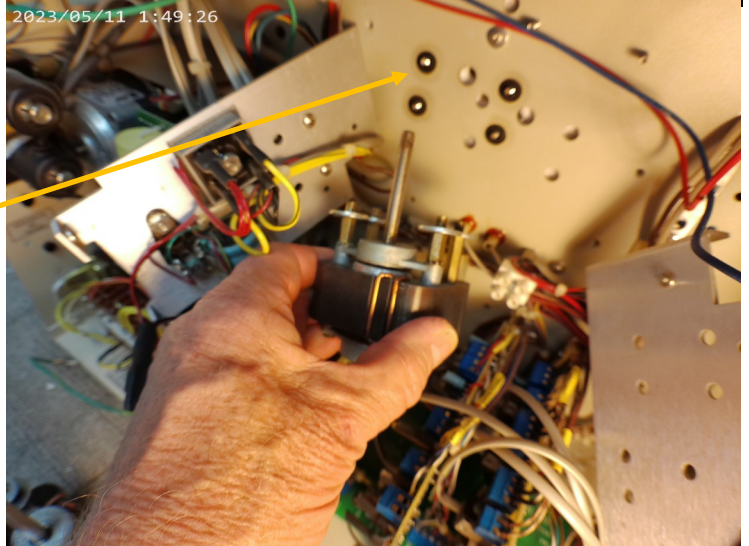
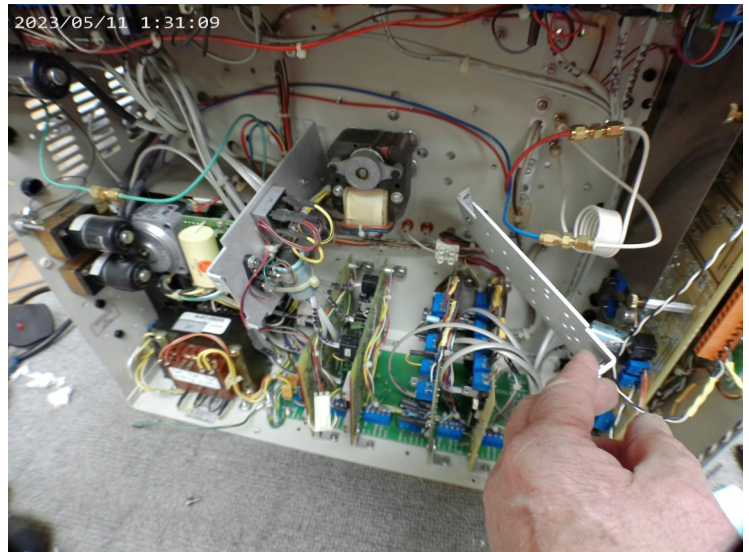
It's a bit awkward, but you may have to loosen the screws while holding a wrench on the fan motor to prevent the motor stand-offs from turning while you loosen the screws.

This what the stand-offs look like.



Once the screws are disconnected you can pull the motor out.

Note the condition of the four rubber grommets. If they are deteriorated, they should be replaced with the new ones in the kit.



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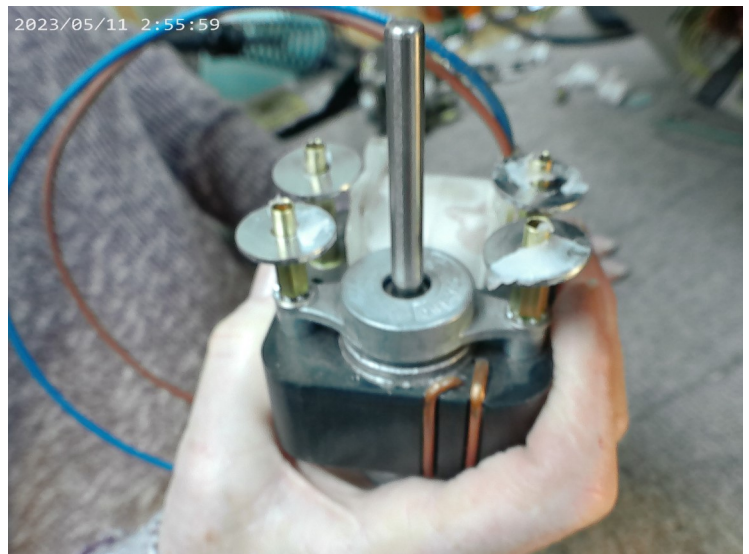
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The new motor is ready to install with the flat washers on the stand-offs.

To keep the screws in the holes from jiggling out of position while installing the new motor, stuff all the holes except one with a bit of the white insulation. This will keep the screws from moving. Tighten the one screw without the white insulation, then remove the insulation from the other screws one by one as you tighten those screws.

Once the new motor is secured, make a magic marker line on the shaft of the motor to align with the dimple on the shaft. This will make it easier to position the new fan blade



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SRI puts a little anti-seize compound on the hole of the fan blade and also on the threads of the setscrew which holds the fan blade on the motor shaft.

The anti-seize makes it a lot easier to remove the fan blade after it has been hot. We put the anti-seize on before we ship the motor replacement kit.

Align the setscrew with the dimple on the motor shaft and tighten the setscrew. It should be tight but don't tighten excessively. Make sure the setscrew actually goes into the dimple.

Inside the GC connect the wires of the new motor to the blue and brown wires that were previously connected to the old fan motor.

We like to use "crimp connectors" like those shown in the photo. If you have the special crimping tool, use it. But if not, you can use a "Vise-Grip" type of pliers to crush the connector down onto the wires. Make sure the wires and not be pulled out of the connector after you crimp it.



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