

Furnace door adjustment procedure

One of the most important things in helping to maintain a good working relationship with your furnace is to make certain that the door closes properly. Even a small gap between the door and the port can add to the strain on the furnace. It will have to work harder to maintain temperature and this has a great deal of effect on the elements. The door is adjusted at the factory to fit the way it should but often times something will shift in shipping.

What you need to look for is to see that the flat of the door fits flat and tightly to the castings around the port. If you see a distinct unevenness in the glow around the door, it probably needs to be adjusted. Stand on a chair and look straight down to where the door contacts the port. There should be no gap.

Step 1.

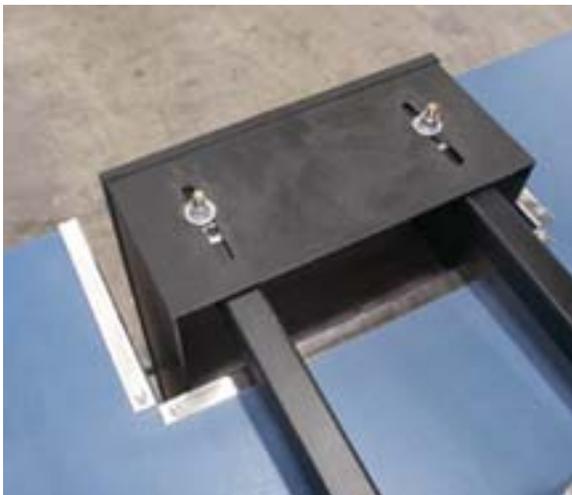
Open the door and place something about 1 inch high on the sill as shown below. This will hold the door open a little while you do your adjustment. Close the door. It may not seem to fit but don't be alarmed.



Door closed on the spacer.

Step 2.

Losen the 2 bolts that attach the door to the doorarm shown below. Losen to where they have a lot of slack but **do not remove them**.



Normally there would be a couple of spacer washers you can see that were installed as shims. These will be very important when it goes back together. If there are no shims, find a couple of washers that are the same thickness.

Step 3.

Stand on a chair directly in front of the furnace. There is a very good chance you are doing this while the furnace is hot. With your gloves, grab the two top corners of the door firmly as shown in the picture on the next



Place your knee firmly in the center of the lower part of the door and shove it flat up against the port casting. Once again, there should be no gap between the door and the port. You may need to force it a little by jiggling the top, but look down from the top and make sure its closed.

Step 4.

Now its time to Tighten the bolts back up. First you need to get the shims (washers) into place. You may need to pry inbetween the door and the doorarm so that you can slide your shim into place as shown. It should be slid right up til it touches the back side of the bolt. Make certain your door is still in place and tighten the bolts. What this does is tilt the bottom edge of the door i toward the furnace a little and forces it to seal better.



Step 5.

Open the door and remove the spacer from the sill. Now when you close the door back down it should touch just before the door reaches the sill and then slide down a little. Its not necessary that the door reach all the way down to the sill but if it does, thats fine too.

Once again, this is so crucial to the smooth operation of your furnace. When the door is closed properly there is substantially less were and tear on your elements and even your chamber castings.

If you have questions please feel free to call.

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