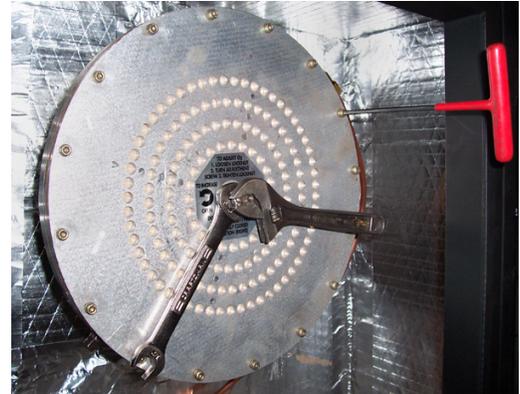


Fulton Pulse Air Flapper Maintenance

Before disassembly of the air flapper assembly, it is important to know your starting point. This point is the last point that was set when your unit had clean, whole gaskets and combustion was set properly. The most accurate way to determine your starting point is to do as follows: Obtain a small adjustable wrench and a 9/16" open-ended wrench. Apply your adjustable wrench to the center square adjustment screw on the air flapper assembly. Note that the end of the adjustable wrench is close to being directly over one of the (16) allen headed screws holding the air flapper assembly to the air flapper housing. Hold the adjustable wrench in place while the 9/16" hex lock nut is loosened at least three full turns. Using the (16) allen screws at the perimeter of the air flapper assembly, count incrementally the number of screws the end of the adjustable wrench passes over as you fully close the air flapper valve. For example, 1 full revolution would equal 16 screws. This method of determining starting point is more accurate than estimating full revolutions or guessing blindly.



After the air flapper valve is fully closed and the number of screws passed over is noted, remove the air flapper assembly from the air flapper housing by removing the (16) 9/64" allen headed screws from the perimeter of the assembly.



Now the assembly can be taken apart. Loosen the center adjustment screw and loosen until assembly comes apart. At this point, the air flapper gaskets and outer perimeter spacer will be exposed for cleaning or replacing.

After gaskets have been repaired or replaced, reassemble the air flapper assembly. Make sure that the through holes of both the front and back plate of the assembly as well as the outer perimeter spacer line up. When assembly is put back together, re-attach it to the air flapper housing. Start all allen headed screws before tightening.

After assembly is installed, begin to reset the gap between the plates of the air flapper assembly by applying your crescent wrench to the center adjusting screw. Start with the valve fully closed. Note the position of the end of the crescent wrench and turn open the air flapper valve to the number of increments noted earlier. Tighten down lock nut. This point is the same point that the unit was last set.

Note: It is always better to test and adjust combustion by use of a combustion analyzer. The setting above should allow the unit to operate, but does not necessarily guarantee optimum combustion efficiency.