

How to replace the heating elements in Blue Furnaces (KSL)

1. Make sure furnace is off at the front, and breaker on the side is off. Then fully unplug it.
2. remove top, 4 screws and should just pop off
3. Remove one of the wire clamps that connect the circuit of elements together
4. If it is not obvious which element is broken, check resistance with a multimeter of each element. $< \sim 50$ is fine, if there are any that are high (ex, 10 20 30 100) the high one needs to be replaced
5. Remove the wire clamp around the element, loosen the bronze screw and remove that clamps
6. The white aluminum oxide part is probably fused, hit around the outside to chisel it out and lift the whole heating element. Do not chisel it in the middle as this piece is needed later
7. Remove the aluminum oxide piece and place it in the new heating element
8. Bring the heating element down inside the furnace. The bottom of the element should be about 2cm from actually touching the base inside the furnace (Qiang places a screw from the top of the furnace that was removed in part 1 at the bottom as a gap).
9. Replace everything around the heating element, wire it all back up, plug the furnace in
10. Test the furnace to 1300 overnight to see if it holds temp

