

Introduction:

This instruction sheet explains how to replace the bottom tunnel stone with part numbers 09.0496 and 09.0717. The tunnel stone is the bowl or “U” shaped stone at the base of the boiler’s combustion chamber. The stone is subjected to high temperatures, acidic byproducts of combustion and abrasive ash. The tunnel stone is a normal wear part and will need occasional replacement.



Tunnel Stone
Solo Plus 30, 40, Excel 2000, and 2200

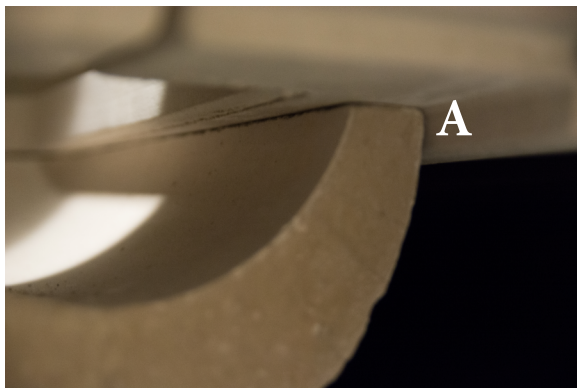


Tunnel Stone
Solo Plus 60, Solo Innova 30, and 50

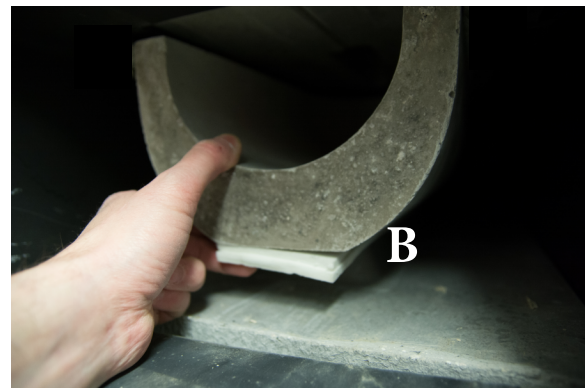
Instructions:

To replace the tunnel stone, the old stone must first be removed. The stones can be removed through the ash door by sliding them toward the door like a drawer. There is no mechanical connection or adhesive bond between a tunnel stone and the stones around it. However, there are occasional reports of stones that are stuck or which seem “locked in place”. Ash, heat, and rough surfaces may make high friction between adjoining stone surfaces so that additional leverage may be needed. Resist the temptation to break an old stone out with a hammer so that you don’t damage the other stones by an inadvertent strike. It may help to place a rope or strap around the back of the tunnel and use that to get your body in a stronger pulling position. Light to moderate tapping on the tunnel stone may help free it.

When the old stone is removed, the new stone can be placed in the boiler by sliding it inward. The back of the tunnel stone must seat fully into the matching castings on the stones above it. Light weight high density ceramic felt provided with the tunnel stone is used to shim the stone upward so that it makes gentle contact with the stones above it (A). Place the shim material on the floor or with the base of the tunnel stone and slide the tunnel stone inward, making sure the shim material tracks with the base of the tunnel stone (B).



Stone should touch stones above it



Installing stone with shim material

Once installed, we recommend breaking-in the new stone by starting a low temperature fire. After starting the kindling fire with the bypass damper open, use large wood and/or try placing the first piece of wood in the boiler diagonally followed by 2-4 more pieces on top. Reduce gasification as much as possible for the first fire. We have no proof that a break in fire will help, but it may and there is little harm in giving it a try.