

11/9/2016

INSTRUCTIONS ON HOW TO REPLACE THE GOLF 1" D50 / D55 ROTOR BOTTOM VALVE, P/N D1017

Photos showing the top and bottom of the Bottom Valve assembly.

Photo of top.



Photo of bottom.



There are 2 Snap Rings that will need to be removed from their locking positions in the Rotor Body that hold in place the Internal assembly and Bottom Valve. Use the Snap Ring Tool to hook both Snap Rings then twist inward and pull them up and out of the locking positions. (This will be shown in more detail on the following pages.)

Photo of Snap Ring Tool and black Snap Ring.



Photo of Snap Ring Tool and white Snap Ring.



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Use the Snap Ring Tool to hook into the Snap Ring ears. Then twist the Snap Rings inward and pull them up and out of their locking positions in the Rotor Body.

Photo of Snap Ring Tool and black Snap Ring.

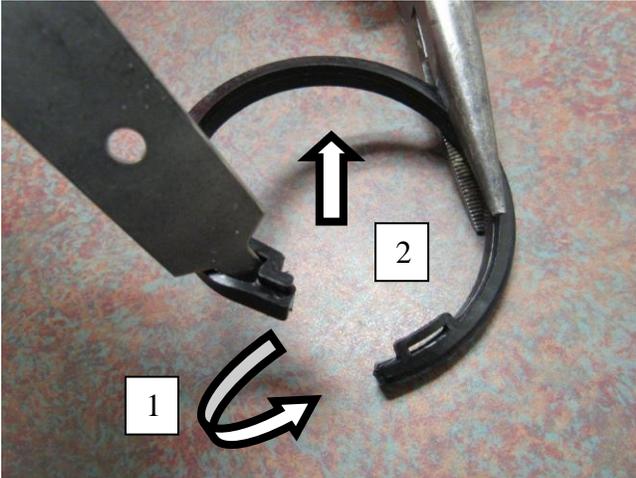
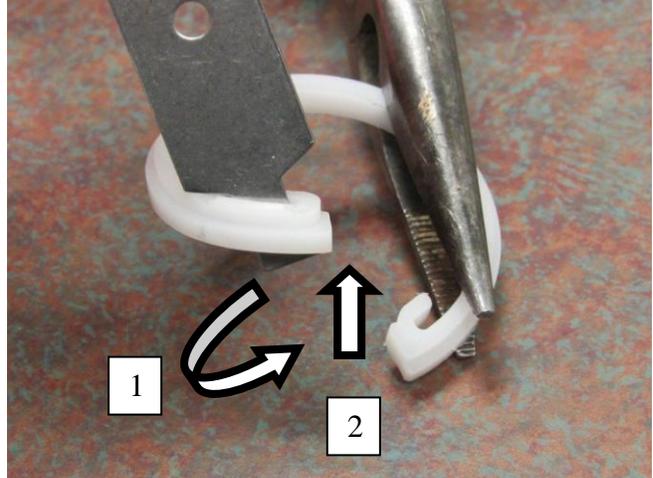


Photo of Snap Ring Tool and white Snap Ring.



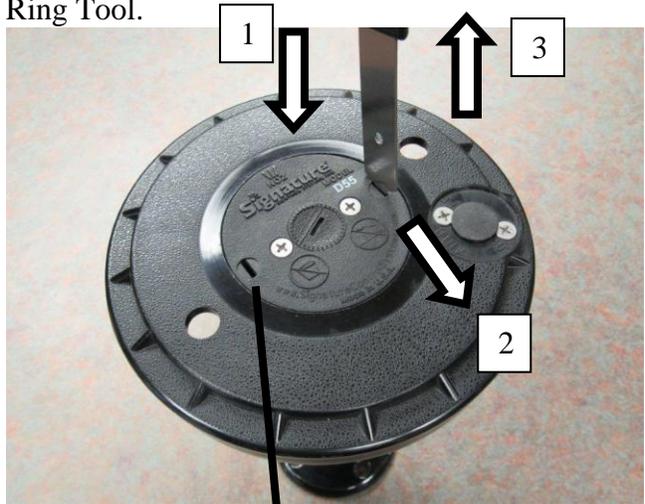
Begin by removing the Internal assembly from the Rotor Body by using the Snap Ring Tool. Hook the Snap Ring Tool into one of the slots on the top Cap and move it forward to lock under the Cap. Pull the Internal assembly up and hold it in place with one hand.

Photos of Rotor Body, Internal assembly and Snap Ring Tool.



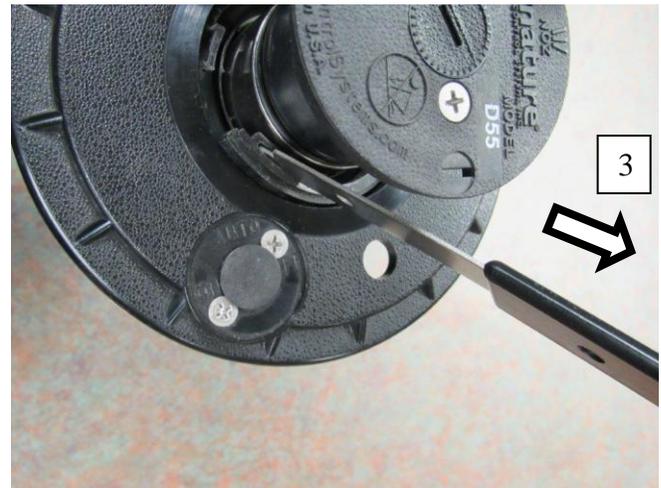
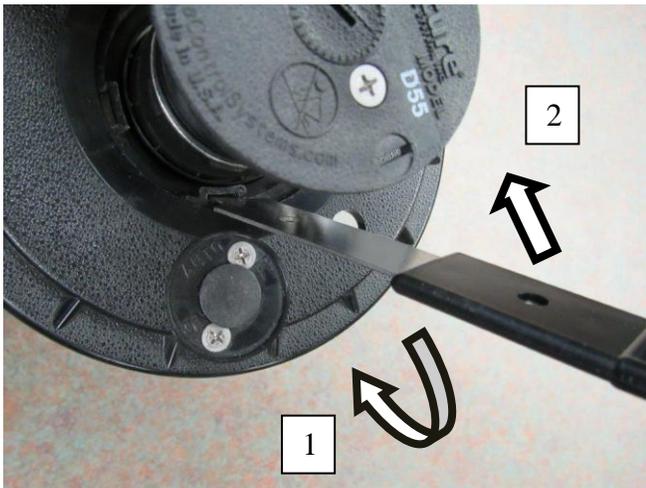
Rotor Body

Internal assembly



Slot

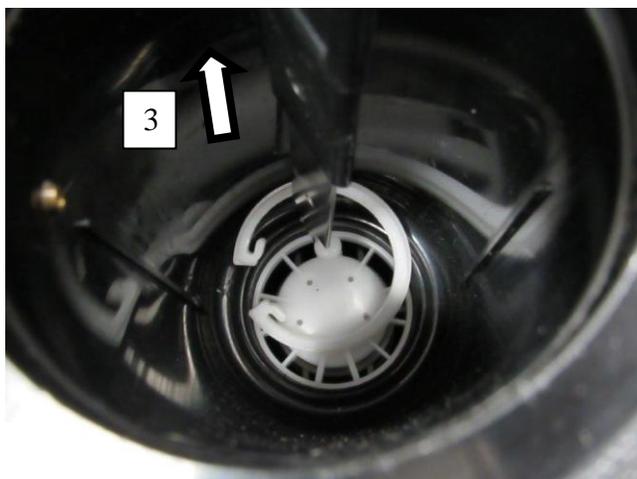
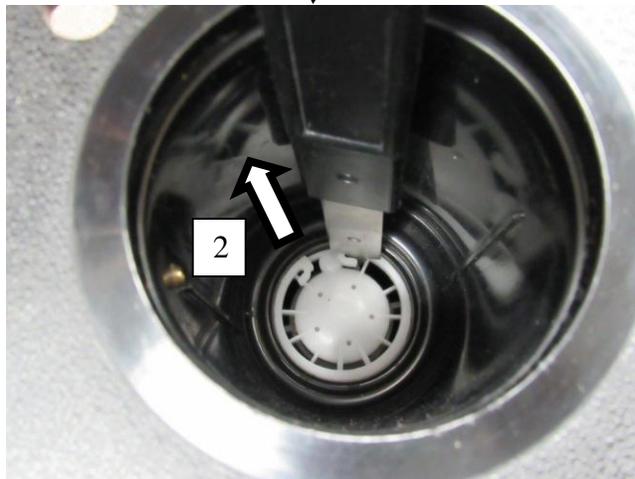
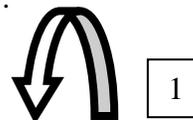
Use the Snap Ring Tool again to hook into the Internal assembly black Snap Ring ear. Twist the Snap Ring inward and pull it up out of its locking position in the Rotor Body. Do this with the other Snap Ring ear and pull up until the Snap Ring is all of the way out of its locking position.



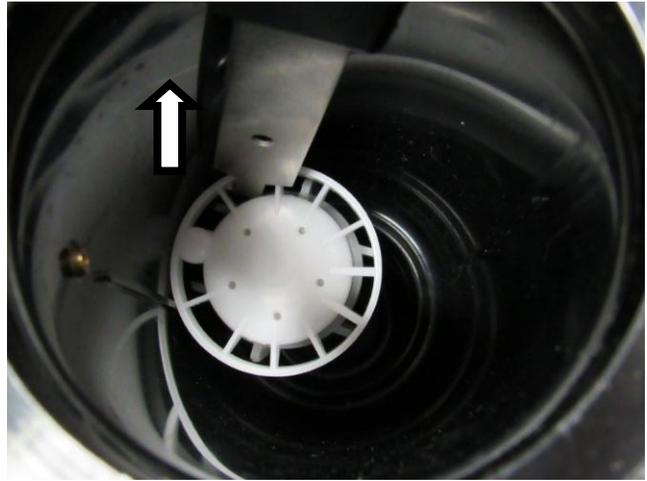
Pull the Internal assembly out of the Rotor Body.



Locate the Bottom Valve assembly and the white Snap Ring on top of it. Use a flashlight if needed. Use the Snap Ring Tool to hook the Snap Ring and twist it inward and pull it up and out of its locking position in the Rotor Body. Remove the Snap Ring from the Rotor Body.

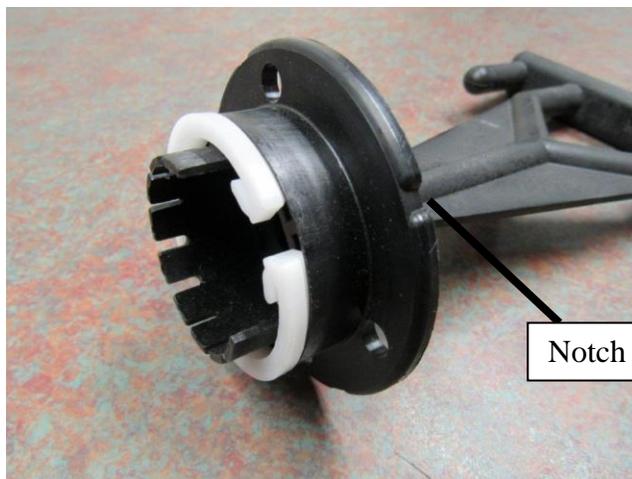


Use the Snap Ring Tool to hook into the Ribs of the Bottom Valve assembly and pull it up and out of the Rotor Body.

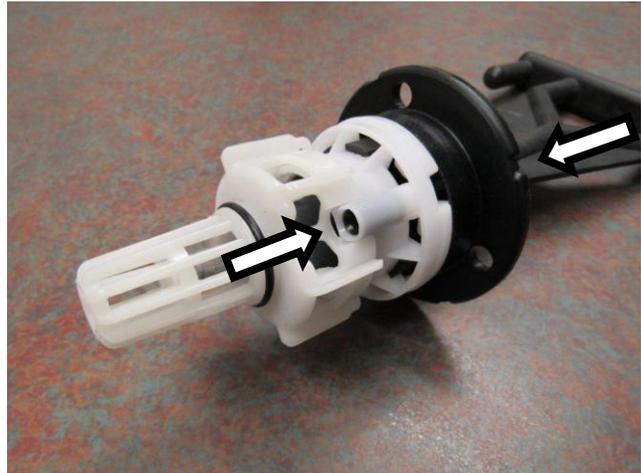
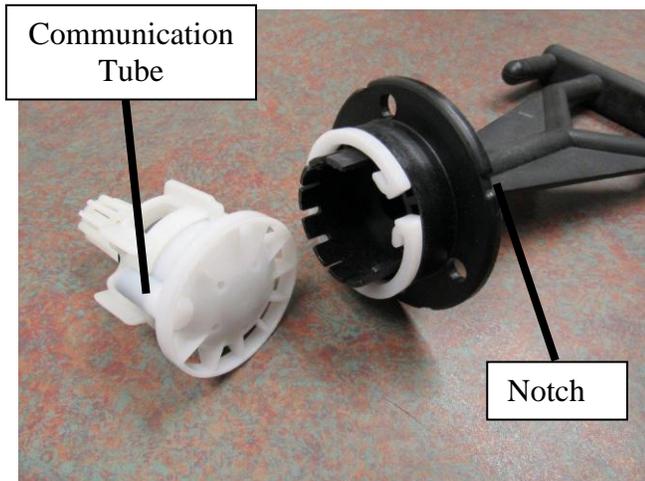


Use the Insertion Tool to insert the white Snap Ring and the Bottom Valve assembly. Align the Snap Ring on the Insertion Tool as shown with the notch on the Insertion Tool. Compress the Snap Ring and push it into place on the Insertion Tool. The Snap Ring will only fit onto the Insertion Tool one way.

Photos of Insertion Tool and Snap Ring.



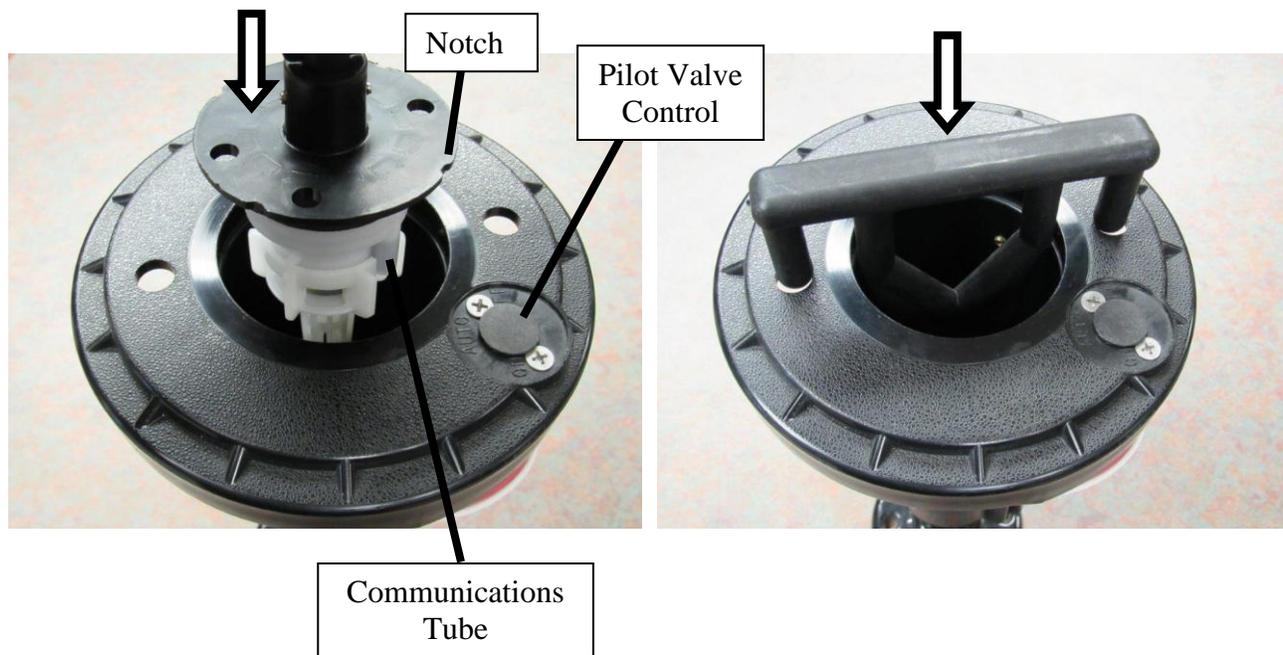
Align and push the Bottom Valve assembly onto the Insertion Tool as shown. The Communication Tube (the cylinder on the side of the Bottom Valve assembly) must be in line with the Notch on the Insertion Tool and the open part of the Snap Ring.



Align the Insertion Tool on the Rotor Body to place the Bottom Valve assembly and Snap Ring into place. The Insertion Tool notch, the open part of the Snap Ring and the Bottom Valve assembly communication tube need to be next to the Pilot Valve Control on the flange of the Rotor Body, as shown.



Align the Insertion Tool and lower it into the Rotor Body until the 2 prongs line up with the holes on top of the Rotor Body.



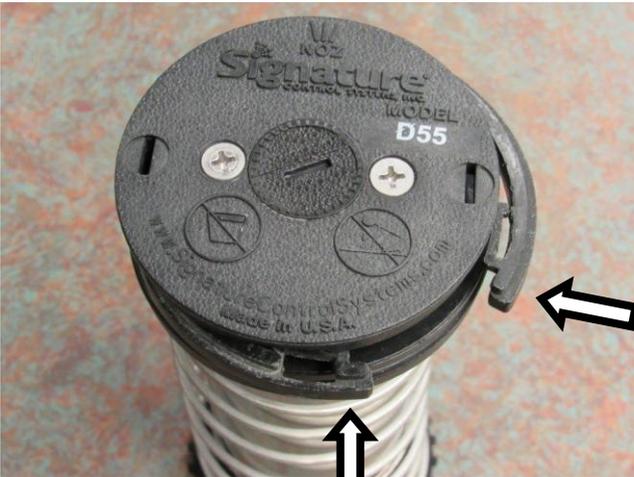
Push the Insertion Tool down hard and then lift it out. The Bottom Valve assembly and the Snap Ring should now be in place.



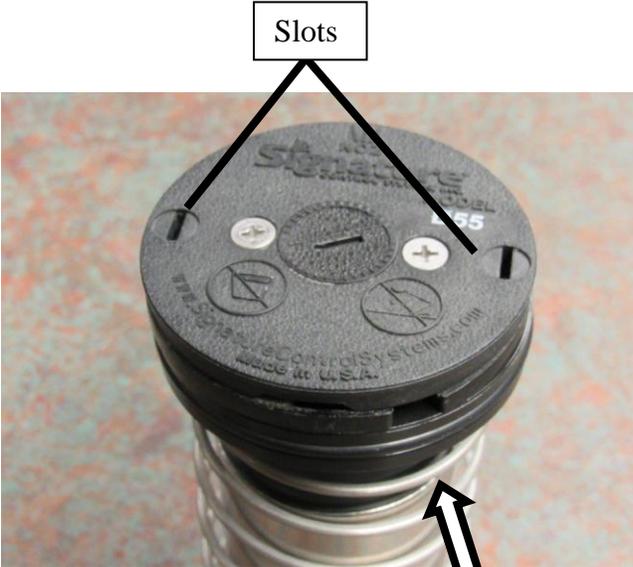
Use the other end of the Snap Ring Tool to push and tap on the Snap Ring to see that it is in the locked position in the Rotor Body.



It is now time to install the Internal assembly back into the Rotor Body. Compress and position the Snap Ring under the Cap as shown. Keep the opening of the compressed Snap Ring away from the slots.



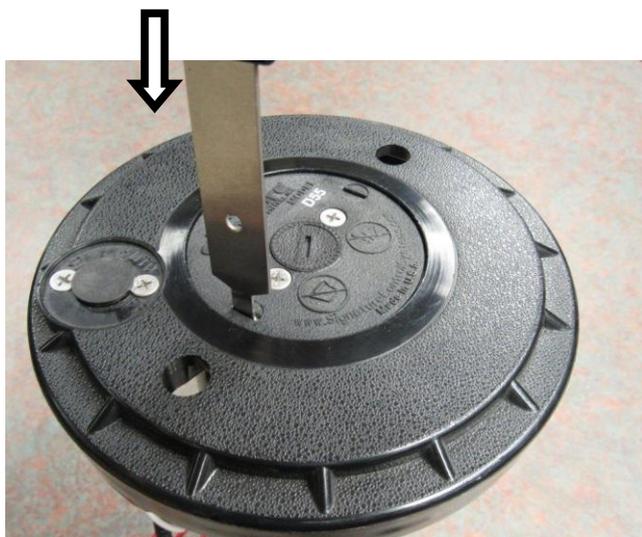
Compress Snap Ring and fit under the Cap



Keep the Snap Ring opening away from the slots

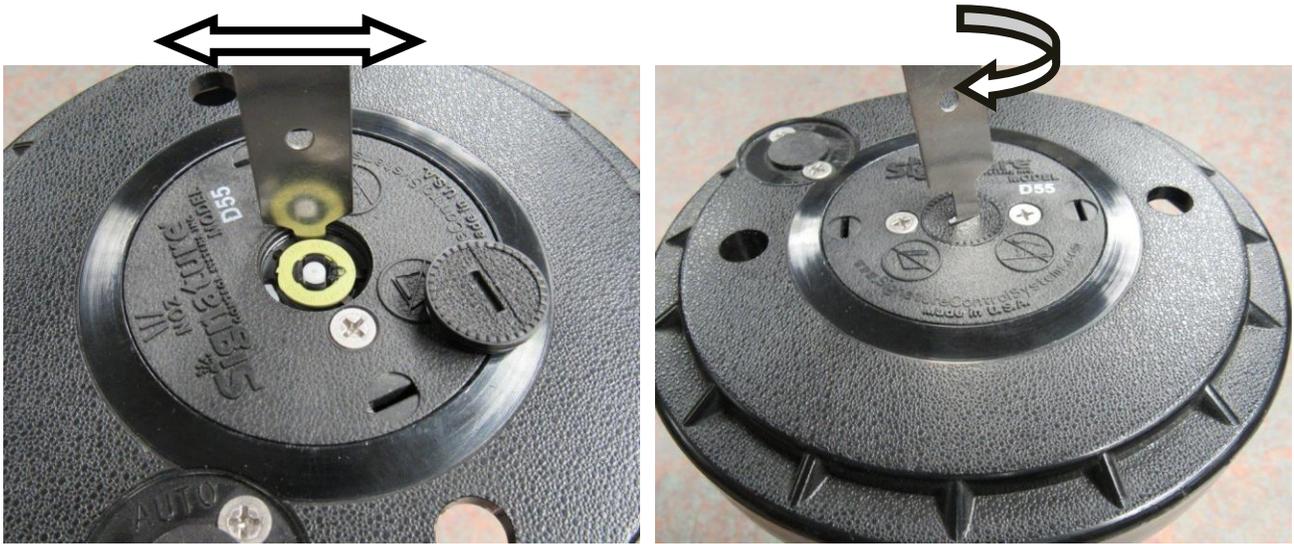
Lower the Internal assembly into the Rotor Body pushing it down into place. Use the Snap Ring Tool in both of the slots on top of the Cap to push down on the Snap Ring until it snaps into the locking position in the Rotor Body. Use the Snap Ring Tool to pull up on the Internal assembly to see that the Snap Ring is holding in the locked position.





It is now time to set the Arc Adjust assembly for the D55, if needed. Using the Snap Ring Tool remove the small Cap on top and then adjust the Arc Adjust assembly as needed. Screw the small Cap back in place with the Snap Ring Tool when finished.





(Note: Components shown in this document could be of a different material or color compared to components in hand. The assembly concepts are the same.)