



<b>Title:</b>
<b>SecurityGuard ULTRA Anatomy and Troubleshooting</b>



<b>Technique:</b>	<b>UHPLC and HPLC</b>
<b>Brand name:</b>	<b>SecurityGuard ULTRA</b>
<b>Product:</b>	<b>SecurityGuard ULTRA</b>
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<b>Key Words:</b>
SecurityGuard ULTRA

### **Anatomy of SecurityGuard ULTRA:**

SecurityGuard ULTRA holder (AJ0-9000) is initially composed of two pieces as seen in **Figure 1**. The tube base is part A and the floating nut is part B. See our installation video (<https://youtu.be/wTTqc5i14hQ>) for tips on proper installation. Once installed, the ferrule on part B will swage and lock down to part A. The holder will become one piece and cannot be separated.

The cartridges (**Figure 2**) are sold separately. The cartridge contains the same media as your column and is designed to trap particulates and contaminants from reaching the column. This portion gets disposed when replacement is necessary (see troubleshooting section below).

<b>Figure 1:</b>	<b>Figure 2:</b>
	



### Troubleshooting:

- Replace SecurityGuard ULTRA when one of the following occurs:

Symptom	Criteria
1. Increase in back pressure	>25 % or before system auto-shutdown
2. Loss of peak efficiency	Efficiency (N) decreases by >25 %
3. Loss of peak resolution	Resolution (RS) decreases by 10 %
4. Abnormal peak shape	Unacceptable to method
5. Baseline drifting	Unacceptable to method
6. Retention time drifting or shortening	Unacceptable to method
7. Loss of accuracy or precision	Unacceptable to method
8. As part of preventative maintenance	Depends on acceptance criteria of method >150 samples injected

- Leaking can occur in one of the following places and can be easily remedied with the following recommendations.
  1. Confirm the instrument fitting and tubing is seated flush and correctly in the Security Guard Ultra.
  2. Confirm the cartridge is threaded correctly into the Security Guard Ultra Holder.
  3. A leak can occur here if the floating nut ferrule is not properly swaged down on the tube nib of the tube base.
  4. Just like #1, confirm the Security Guard Ultra is seated flush and correctly in to the column.

Holder with cartridge



If you need further clarification, please review the SecurityGuard ULTRA Installation instructions.