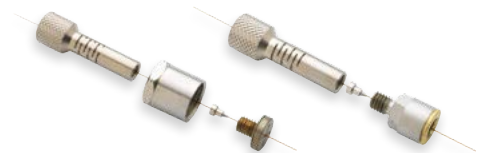


Suitable for the following Gas Chromatographs with MS:  
HP5890 Series I and II; Agilent/HP 6890 Agilent 7890; Agilent 6850

### Introduction



The SiLTite FingerTite® fittings system will allow you to install and remove a column without using a wrench. The SiLTite FingerTite system is designed to be self installed, the instructions below are written in easy to follow steps.

### Packing list

- 1 x Adapter base seal injection port
- 1 x Nut injector port
- 2 x Adapter MS
- 5 x SiLTite FingerTite nuts - female
- 10 x 0.4 mm, SiLTite FingerTite ferrules
- 1 x Ferrule install tool

### Instructions

#### Injector adapter installation

This procedure is no different than cleaning the inlet or replacing the seal or base plate. Do not lose any of the items that are replaced.

1. Cool the inlet and shutdown the mass spectrometer.
2. Remove the column and column nut (if attached). When the inlet is cool remove the septum nut, septum and inlet liner/o-ring. This is a good time to clean the inlet.
3. Remove the thermal insulator from the injector.
4. Unscrew the large nut (1) assembly at the base of the injector, turn anticlockwise. Remove the base injector seal and nut assembly. Retain these original parts.

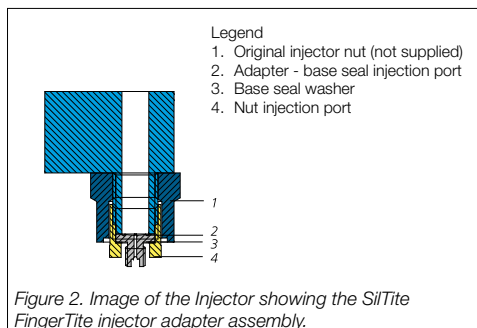


Figure 2. Image of the Injector showing the SiLTite FingerTite injector adapter assembly.

5. From the SiLTite FingerTite kit, locate the base seal injection port adapter (2), the base seal washer (3) the injection port nut (4) and assemble as displayed in the Figure 2.
6. Insert the base seal injection port adapter (2) and base seal washer (3) into the base of the injector and tighten with the injection port nut (4) clockwise until firm. Replace the original injector nut (1). Replace the thermal insulator.
7. We recommend reassembling the inlet with a clean inlet liner, new o-ring and new septum.

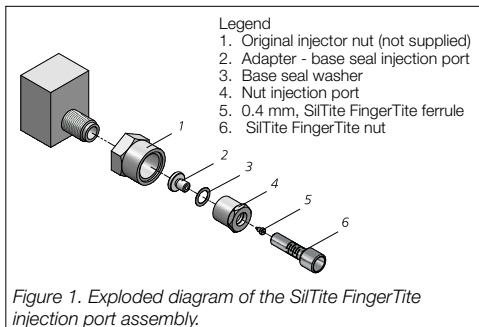
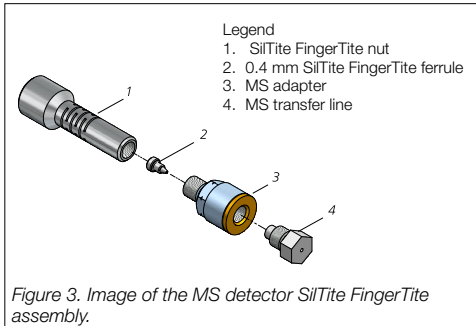
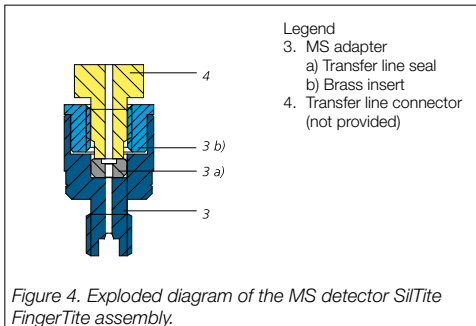


Figure 1. Exploded diagram of the SiLTite FingerTite injection port assembly.

## MS adapter installation



1. Make sure the transfer line temperature is cool before you proceed.
2. Locate the adapter MS interface (3) and ensure that the seal (3a) is in place as displayed in the Figure 3 and 4. The seal is pre-assembled but may have come loose during transit.
3. Using fingers screw the adapter MS interface (3) (brass end – 3b), as displayed in the Figure 3 and 4, onto the transfer line until it stops. Using a wrench tighten a further 30° to ensure a good seal. Do not attempt to tighten further as this may damage the mass spectrometer interface.



## Column installation



1. First, slide a SiITite FingerTite nut onto the tubing, followed by a SiITite FingerTite ferrule. The flat base of the ferrule aligns with the nut and the cone points to the detector or injector.
2. Using the SiITite FingerTite ferrule install tool displayed in Figure 5, push approximately 20 mm more tubing than required through the install tool. Tighten the nut, using your fingers only to seat the ferrule onto the column – there is no need to use excessive force, once the seal is made the tubing will be held firm and will not move. Use a rule to mark the column insertion distance, then cut the column. The distances for column insertion into Agilent instruments are in Table 1 and are calculated from the back of the ferrule.
3. For MS installation screw the additional MS adapter (3) onto the column installation tool (G1099-20030) supplied with the instrument. With the MS Adapter added to the gauge tool it will be the correct length for the modified transfer line. Using the modified column installation tool, push the tube approximately 2 mm past the end of the tool. Tighten the nut, using your fingers only to seat the ferrule onto the column. Alternatively follow the manufactures instructions for column insertion without the column installation tool, found in the MDS hardware guide.
4. Insert the pre-assembled nut and ferrule into the injector and mass spectrometer and screw in the nut using finger force only – again, there is no need to use excessive force to make a seal. You cannot break the capillary column if you over tighten the ferrule, although an over tightened ferrule may stick to the cone of the adapter. To remove an over tightened ferrule we recommend gently levering between the shoulder of the ferrule and the relevant adapter. **Under no circumstances are wrenches or pliers to be used on these fittings.**

| Injector/Detector | Distance (mm) |
|-------------------|---------------|
| Split/Splitless   | 7.5 - 9.5     |

Table 1. Column measurements for correct assembly.

## Information and support

Visit [www.trajanscimed.com](http://www.trajanscimed.com) or contact [techsupport@trajanscimed.com](mailto:techsupport@trajanscimed.com)

Specifications are subject to change without notice.