



Introduction



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

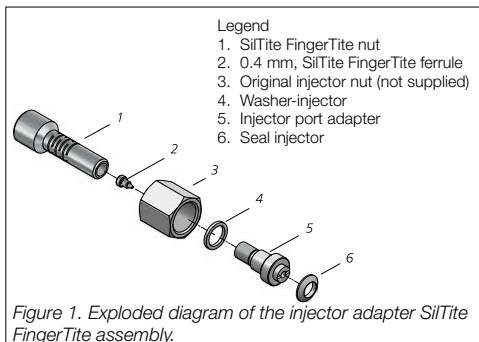
Packing list

- 1 x Injection port adapter assembly
- 1 x MS port adapter assembly
- 5 x SiITite FingerTite nuts - female
- 10 x 0.4 mm, SiITite FingerTite ferrules
- 1 x Ferrule install tool

Instructions

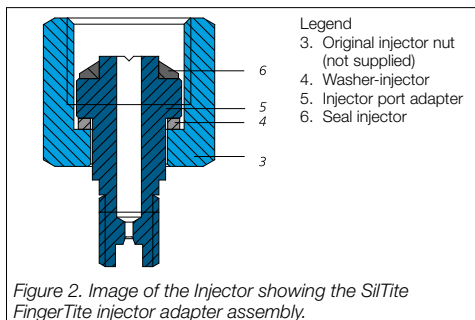
Injector adapter installation

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.



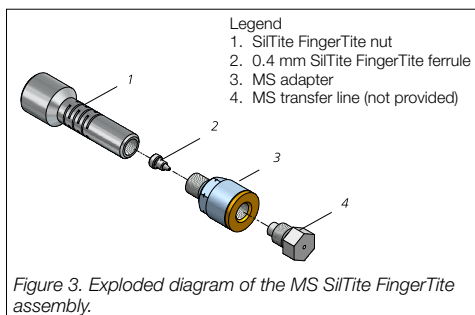
1. Cool the inlet and shutdown the mass spectrometer.
2. Remove the column and column nut (if attached).
When the inlet is cool remove the septum nut, septum and inlet liner/sealing ring. This is a good time to clean the inlet.

3. Remove the thermal insulator from the injector.
4. Unscrew the large nut assembly at the base of the injector, turn anticlockwise. Remove capillary adapter assembly. Retain these original parts.

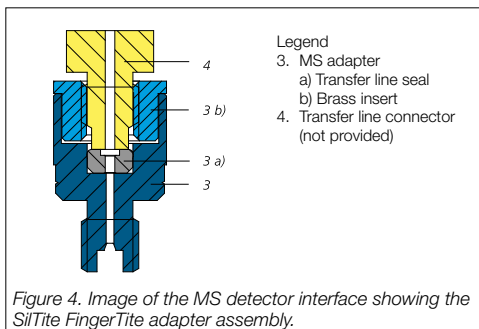


5. Locate the SiITite FingerTite injection port adapter (5), washer (4) and seal (6) and assemble as displayed in the Figure 2. Insert the Injection port adapter (5) into the base of the injector and tighten the nut (3) clockwise until the fitting is firm.
6. Replace the thermal insulator
7. We recommend reassembling the inlet with a clean inlet liner, new sealing ring and new septum.

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. The seal is pre-assembled but may have come loose during transit.
3. Using your fingers, screw the adapter MS interface (3) (brass end – 3b) 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



- Slide a SiTite FingerTite nut (1) onto the tubing first, followed by a SiTite FingerTite ferrule (2). The flat base of the ferrule aligns with the nut and the cone points to the MS transfer line or injector.
- Using the SiTite FingerTite ferrule install tool displayed in Figure 5, push approximately 20 mm more tubing than required through the ferrule 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. The distances for column insertion into the injector are in Table 1 and are calculated from where the cone of the ferrule has collapsed onto the capillary column. For ease of use we recommend using the column fitting jig supplied with the instrument (Shimadzu PN 225-11657-09) to accurately cut the capillary tubing.

- For MS installation screw the additional MS adapter (3) onto the column fitting jig (Shimadzu PN 225-11657-08) supplied with the instrument. With the MS adapter added to the fitting jig it will be the correct length for the modified transfer line. Using the modified column fitting jig, push the tube approximately 10 mm past the end of the tool. Tighten the nut, using your fingers only to seat the ferrule onto the column. Cut the column flush with the end of the column fitting jig. The column can now be inserted into the MS interface.
- Insert the pre-assembled nut and ferrule into the injector/MS interface 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 simply 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 QP - 2010	40.0

Table 1. Column measurements for correct assembly.

Information and support

Visit www.trajanscimed.com or contact techsupport@trajanscimed.com

Specifications are subject to change without notice.