

## 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.

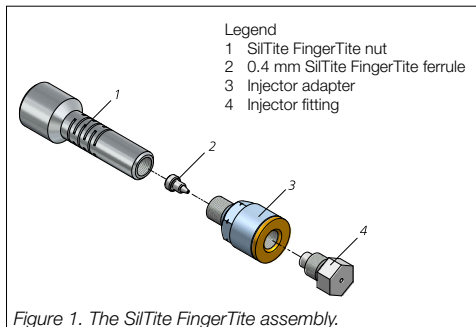
## Packing list

- 2 x Adapter (MS transfer-line and injector)
- 1 x Spare adapter (can be used on measuring jig)
- 5 x SilTite FingerTite nuts - female
- 10 x 0.4 mm SilTite FingerTite ferrules
- 2 x MS blanking ferrules
- 1 x SilTite FingerTite ferrule install tool

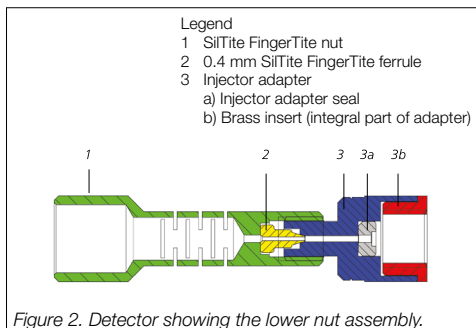
## Instructions

### Injector adapter installation

Cool all areas that will receive the FingerTite adapters including the injector and the transfer-line. Vent the Mass Spectrometer per the manufacturer's instructions.



1. Locate the adapter Injector Interface (3) and ensure that the seal (3a) is in place. The seal is pre-assembled but may have come loose during transit.



2. Using fingers screw the Injector adapter (3) (brass end – 3b) onto the Injector 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 Injector interface.

## MS adapter installation

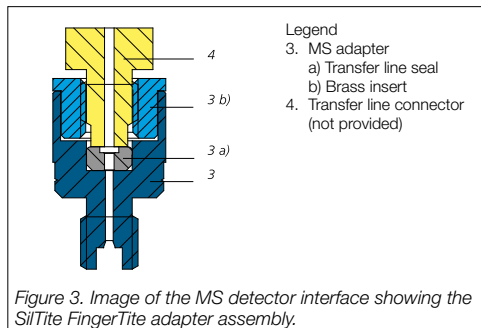


Figure 3. Image of the MS detector interface showing the SiITite FingerTite adapter assembly.

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



Figure 4. Image of SiITite FingerTite Install tool.

1. Slide a SiITite FingerTite nut (1) onto the tubing first, followed by a SiITite FingerTite ferrule (2). The flat base of the ferrule aligns with the nut and the cone points to the MS transfer line or injector.
2. Using the SiITite FingerTite ferrule install tool displayed in Figure 4, 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.

3. For MS installation screw the additional MS adapter (3) onto the column fitting jig 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.

4. 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)
Cap injector	46 - 55
PSS injector	40 - 46

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.