

# Thermo Scientific SilTite™ FingerTite Kit

## Installation Instructions - P/N 073614

*Congratulations! You have purchased the latest innovation in GC capillary column connections by SGE Analytical Science. The SilTite™ FingerTite fittings system enables you to install and remove a column without using a wrench and is designed to be self installed using this installation manual.*

*Suitable for the following instruments: Trace GC split/splitless injector; Trace GC FID detector  
Focus GC split/splitless injector; Focus GC FID detector.*

### KIT CONTENTS

- 5 x SilTite™ FingerTite Nuts (Female) Re-order P/N 073636
- 10 x 0.4 mm SilTite™ FingerTite Ferrules Re-order P/N 073630  
(Order P/N 073631 Pk 10 for 0.5 mm ferrules)
- 2 x Nut 10-32 UNF
- 1 x Adapter Injection Port
- 2 x Seal Injection Port
- 1 x Adapter FID
- 2 x Seal FID
- 1 x SilTite™ FingerTite Ferrule Install Tool



### 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.

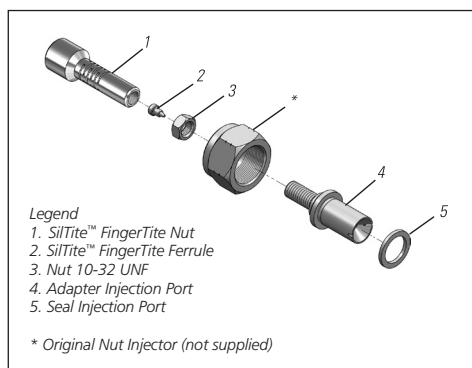


Figure 1. Exploded diagram of the injection port SilTite™ FingerTite assembly.

1. Cool the injector.
2. Remove the column and column nut (if attached).
3. Remove the Thermal Insulator at the base of the injector. Unscrew the large nut\* assembly at the base of the injector, turn anti-clockwise.
4. Remove the seal and capillary adapter assembly. Retain these parts.

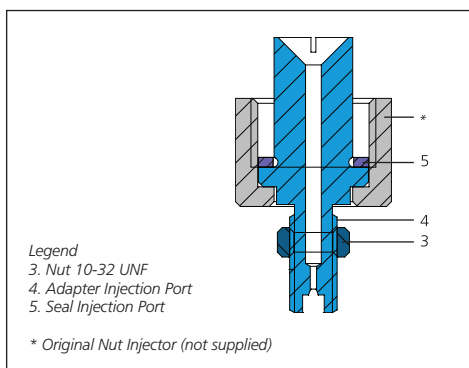


Figure 2. Image of the injector showing the SilTite™ FingerTite injector adapter assembly.

5. Locate the Adapter Injection Port (4), Seal (5) and assemble as displayed in Figure 2.
6. Insert the Adapter Injection Port into the base of the injector and tighten the nut clockwise.
7. Replace Thermal Insulator using nut (3).

## INSTALL THE FID ADAPTER

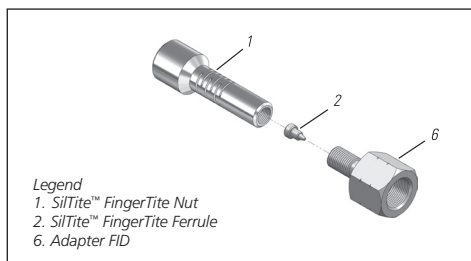


Figure 3. Exploded diagram of the FID SilTite™ FingerTite adapter assembly.

1. Remove the column and column nut (if attached).
2. Unscrew the large nut assembly at the base of the FID, turn anti-clockwise. Remove the seal and capillary adapter assembly. Retain these parts.

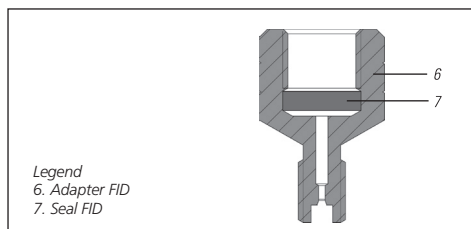


Figure 4. Image of the Detector showing SilTite™ FingerTite adapter assembly.

3. Locate the Adapter FID (6) and Seal (7) (the seal may be pre-assembled or has become loose. Confirm the seal is present and assemble as displayed in Figure 4.

## COLUMN INSTALLATION



Figure 5. SilTite™ FingerTite ferrule Install Tool.

1. First, slide a SilTite™ FingerTite nut onto the tubing, followed by a SilTite™ FingerTite ferrule. The flat base of the ferrule aligns with the nut and the cone points to the detector or injector.
2. Using the SilTite™ FingerTite ferrule install tool displayed in Figure 5, push approximately 20 mm more tubing than required through the crimping 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 firmly and will not move. Use a rule to mark the column insertion distance, then cut the column. The distances for column insertion into Thermo Scientific instruments are listed in Table 1 and are calculated from the back of the ferrule.
3. Insert the preassembled nut and ferrule into the injector/detector port 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 Mode	59
Splitless Mode	83
FID / NPD	120

Table 1. Column measurements for correct assembly.

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