

## Instructions for Shimadzu GC-17A SilTite FingerTite® kit

This kit contains the parts for GC-17A Gas Chromatograph.

### 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.

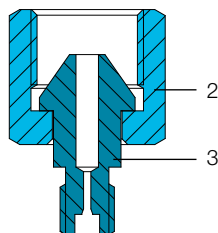
### Packing list

- 1 x Fitting - injection port, Shimadzu GC-17 A
- 2 x Nut - adapter, Shimadzu GC-17 A
- 1 x Assembly - adapter, FID, Shimadzu GC-17A
- 5 x SilTite FingerTite nuts - female
- 10 x 0.4 mm SilTite FingerTite ferrules
- 1 x SilTite FingerTite ferrule install tool

### Instructions

#### Injector adapter installation

Cool all areas that will receive the new FingerTite adapters including the injector and the FID.



- Legend
- 2. Nut - adapter, Shimadzu GC-17 A
  - 3. Assembly - adapter, injector, Shimadzu GC-17A

Figure 1. Image of the injector showing the lower nut assembly.

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

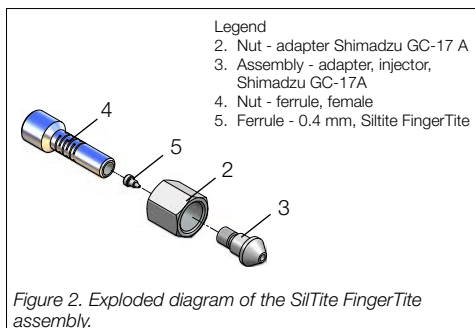


Figure 2. Exploded diagram of the SilTite FingerTite assembly.

3. Assemble the injection port fitting (3), nut adapter (2) as displayed in the Figure 1. Insert this assembly into the base of the injector and tighten the nut (2) clockwise until the fitting is firm.

#### Detector adapter installation

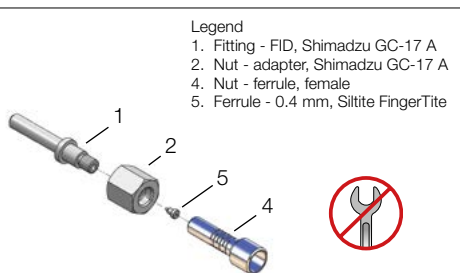


Figure 3. Exploded diagram of the SilTite FingerTite assembly.

1. Remove the column and column nut (if attached)
2. Unscrew the large nut assembly at the base of the detector, turn counter-clockwise. Remove the capillary adapter assembly. Retain these original parts.
3. Locate the adapter FID (3), nut adapter (2) and assemble as displayed in the Figure 3, ensure the sealing ring is fitted prior to installation, as these have a tendency to fall off.

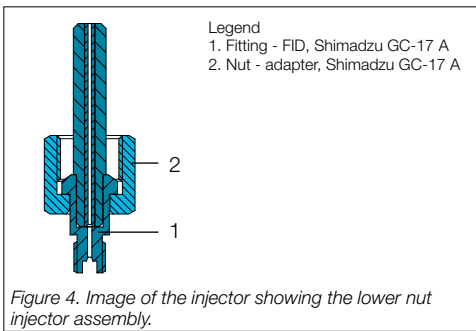


Figure 4. Image of the injector showing the lower nut injector assembly.

4. Insert the adapter FID into the base of the detector and tighten the nut clockwise until the fitting is firm.

## Column installation



Figure 5. Image of SiITite FingerTite Install tool.

1. Slide the nut onto the column first, followed by the ferrule. The flat based of the ferrule aligns with the nut and the cone points to the detector or injector.
2. Using the SiITite FingerTite Install tool displayed in Figure 5, push approximately 20 mm more tubing than required through the tool. Tighten the nut, using your fingers, to seat the ferrule onto the column, there is no need to use excessive force, once the seal is made the column will be held firm and will not move. There is no danger

of over tightening the nut using finger force. Use a rule to mark the column insertion distance, then cut the column. The distances for column insertion into Shimadzu instruments are in table 1 and are calculated from the back of the ferrule.

Injector/Detector	Distance (mm)
Split/Splitless GC-17A	34.5
FID GC -17A	70.5

Table 1. Column measurements for correct assembly.

3. Insert the pre-assembled 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. **Remember that the ferrule will be the temperature of the injector or FID and may be hot.** To remove an over tightened ferrule Trajan Scientific and Medical recommends 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.** The ferrules will seal for multiple uses as long as the length of the column into the injector or FID is not changed.

## 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.*