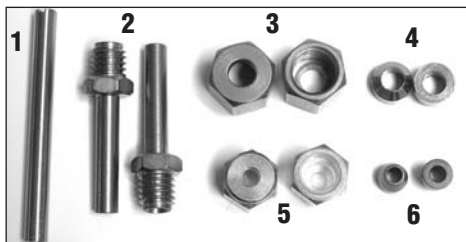


# Instructions for Using Shimadzu Packed Column Adapter Kit Catalog # 21119

The Shimadzu Packed Column Adapter Kit allows installation of a 1/8-inch OD packed column in a 5mm Shimadzu injector and detector, using standard 1/8-inch Swagelok® nuts and ferrules. The column must be designed for on-column injections only.

The kit includes these parts:

- 1) 5mm OD x 1/8-inch ID inlet sleeve (1)
- 2) 5mm OD x 1/8-inch ID port adapters (2)
- 3) 5mm stainless steel nuts (2)
- 4) 5mm graphite ferrules (2)
- 5) 1/8-inch Swagelok® nuts (2)
- 6) 1/8-inch Vespel®/graphite ferrules (2)



To install the adapter kit and column these tools are needed:

3/8-inch open-end wrench

7/16-inch open-end wrench

1/2-inch open-end wrench

## Installation

1. Place a 5mm nut and a graphite ferrule over the end of each port adapter.
2. Insert the inlet sleeve into the injection port, slotted end up, followed by one of the port adapters.  
Using the 1/2-inch wrench, compress the ferrule to complete the connection.
3. Insert the second port adapter into the detection port.  
Using the 1/2-inch wrench, compress the ferrule to complete the connection.
4. Place a 1/8-inch Swagelok® nut and Vespel®/graphite ferrule on each end of the column.
5. Connect the longer arm of the column to the fitting on the end of the port adapter in the injection port. Tighten the 1/8-inch nut by hand to hold the column in place.  
Connect the shorter arm of the column to the fitting on the port adapter in the detector port. Tighten the 1/8-inch nut by hand to hold the column in place.
6. Loosen the 1/8-inch nut on the inlet side of the column and push the column up until it stops moving.  
Pull the column back down approximately 2-3mm and re-tighten the nut firmly by hand.  
Use the 3/8-inch and 7/16-inch wrenches to complete the connection.  
Note: the 3/8-inch wrench must be used each time a column is installed or removed, to prevent the port adapter from turning inside the graphite ferrule and creating a leak.
7. Repeat step 6 at the detector end of the column.
8. Introduce carrier gas into the column and check for leaks. Tighten fittings if necessary.