

CTS-10303

1050/1100/1200 Sapphire Plunger

Similar to: Agilent part number 5063-6586

Chromatography Technology
Services Corp.



Technical Data Sheet

1.0 Description

This is a synthetic sapphire plunger designed to work with Agilent's 1050, 1100, and 1200 modular HPLC. It replaces Agilent part number 5063-6586. The sapphire is a zero-degree oriented, high purity material to provide optimum performance and durability. It is carefully aligned to the ferrule to minimize wear to the plunger seals.

2.0 Specifications

Wetted Components

Sapphire

3.0 Replacement Frequency

Replacement may be indicated by a leak at the pump head. The sapphire plungers should be inspected with a magnifier whenever the pump head is disassembled to replace the plunger seals. If any scratches are observed or a worn or flat area seen the plunger should be replaced.

4.0 Installation Information

CTS's parts are designed to be compatible and interchangeable with the OEM parts. The following instructions are provided as a general outline of the process to follow for correct installation. However, it is not intended to be exact or to replace the OEM process. Please refer to your instrument service or maintenance manual in order to follow the exact installation procedure for this part.

1. Remove Front Cover



2. Disconnect all of the capillary tubing from the pump head.
3. Disconnect the active inlet cable.
4. Loosen the 2 pump head screws using a 4mm Allen wrench. Use caution when loosening. Back out each screw a little bit at a time alternating between them until both screws are free.
5. Loosen the lock screw and carefully remove the pump head from the plunger housing. (The best way to do this is to lay the entire assembly on a flat surface and pull the pump head straight up and away from the housing. This will minimize the possibility of snapping the sapphire plunger when trying to remove the pump head).
6. Remove support rings.
7. Lift the plunger housing from the plungers.
8. Set new plungers on counter face up, spaced so that the plunger housing can slip over them.
9. Slide the plunger housing over the plungers.
10. Re-install the support rings on the plunger housing.
11. Reassemble the pump head to the plunger housing.

12. Re-install the reassembled plunger housing to the pump.
13. Re-attach all capillary tubing and the active inlet cartridge cable.

5.0 Warranty

CTS warrants this product for 60 days from shipment. CTS warrants the product to be free of defects in material and workmanship. We will replace without cost a product which is shown to exhibit such defects. Returns can only be accepted if a **Return Authorization Number (RA)** is obtained prior to shipment. Please call in order to get an RA.

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